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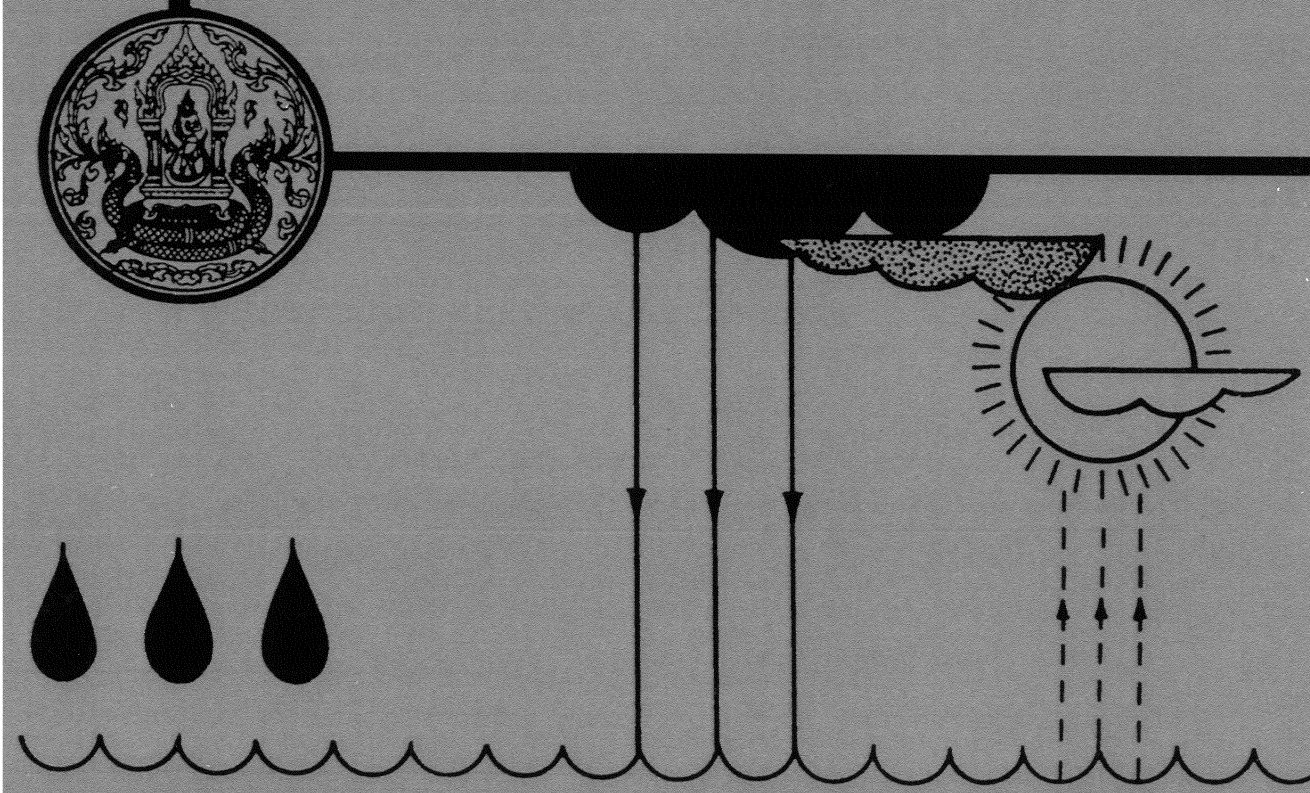
WATER YEAR 1982

VOLUME 25



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

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FOREWORD

The Programme of yearbook publications was initiated in 1966. Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously proceeded data have been reviewed and arranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It presents records, during the 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow calibrating sites and at 27 previously calibrated ones. Up till now 24 volumes of yearbooks presenting streamflow data as early as 1912 up to 1981 totalling 4,295 station-years of record had been published.

This Volume 25 which is the twenty-fifth issues of the series, was prepared by the Data Processing Section. It Presents records, during the 1982 water year, of stage and discharge of 159 streams at 182 currently calibrating sites and at 42 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division
June 1986

ACKNOWLEDGEMENT

The editorial staff of this hydrological yearbook publication feels particularly indebted to Mr. Boonchob Kanchanalak, former Senior Engineer Hydrologist of the Royal Irrigation Department, who had initiated and directed the editing work of yearbook publication in 1966. He made a great attempt insetting up procedure for yearbook publication and adopting engineering standard, method and steps for implementation upon which the further publication of the series will be based.

Special thanks are conveyed to the Budget Bureau, Office of the Prime Minister, who always renders great support to this work, also others who gave valuable advices in improving the work standard are kindly pleased to accept our sincere thanks.

We also wish to express our sincere appreciation to the Chief of Public Relation and Printing Services Sub-Division, Program Coordination and Budget Division, and his efficient staff whose kind assistance and co-ordinated effort have contributed to the success of this Volume 25 issue.

CONTENTS

	Page
FOREWORD	III
ACKNOWLEDGEMENTS	IV
CONTENTS	V
ILLUSTRATION OF STREAM GAGING ACTIVITIES	
HYDROLOGICAL YEARBOOK PUBLICATION	XIII
Introduction	XIII
Definition of terms and abbreviations	XIII
Order of listing of gaging data	XIV
Series of yearbook publications	XIV
STANDARD OF STREAMFLOW DATA PROCUREMENT	XVI
Network design	XVI
Field work	XVI
Office data processing	XVII
Future plan for computerization	XIX
Organization	XIX
PARTICIPATION IN STREAM GAGING WORKS	XXI
UNITS OF MEASURE AND CONVERSION FACTORS	XXII
STREAM GAGING DATA	1
PING RIVER BASIN	
1. Ping River at Chiang Mai, Chiang Mai (P. 1)	2
2. Ping River at Ban Tha Khae, Tak (P. 2A)	4
3. Mae Taeng River at Mae Taeng, Chiang Mai (P. 4A)	6
4. Nam Mae Kuang at Lamphun, Lamphun (P. 5)	8
5. Ping River at Kamphaeng Phet, Kamphaeng Phet (P.7A)	10
6. Ping River at Wang Kra Chao, Tak (P. 12)	12
7. Nam Mae Chaem at Kaeng Ob Luang, Chiang Mai (P. 14)	14
8. Ping River at Ban Tha Sala,Chiang Mai (P. 19A)	16
9. Ping River at Chiang Dao, Chiang Mai (P. 20)	18
10. Nam Mae Rim near Mae Rim, Chiang Mai (P. 21)	20
11. Nam Mae Khan at Ban Mae Khan, Chiang Mai (P. 23)	22
12. Nam Mae Klang at Chom Thong, Chiang Mai (P. 24A)	24
13. Nam Mae Klang at Ban Muang Klang, Chiang Mai (P. 24B)	26

Page

14. Nam Mae Klang at Ban Muang Klang, Chiang Mai (P. 24C) 28
15. Khlong Suan Mak at Ban Mai, Kamphaeng Phet (P. 26A) 30
16. Nam Mae Li at Ban Hong, Lamphun (P. 29) 32
17. Khlong Mae Raka at Ban Khlong Pradu, Tak (P. 32) 34
18. Nam Mae Kuang at Ban Pha Taek, Chiang Mai (P. 34) 36
19. Khlong Khlung at Ban Pang Wai, Kamphaeng Phet (P. 35) 38
20. Nam Mae Lai at Ban Huai Kaeo, Chiang Mai (P. 36) 40
21. Huai Mae Phaem at Ban Huai Kaeo, Chiang Mai (P. 37) 42
22. Nam Mae San at Ban Cham Khi Mot, Lamphun (P. 38) 44
23. Nam Mae Wang at Ban Pang Toem, Chiang Mai (P. 41) 46
24. Nam Mae Li at Ban Mae Bon Mai, Lamphun (P. 42) 48

WANG RIVER BASIN

25. Wang River at Lampang, Lampang (W. 1A) 50
26. Wang River at Ban Don Chai, Lampang (W. 3A) 52
27. Wang River at Ban Wang Man, Tak (W. 4A) 54
28. Wang River at Kiu Lom, Lampang (W. 10A) 56
29. Nam Mae Tui at Ban Hong, Lampang (W. 14A) 58
30. Nam Mae Chang at Ban Sop Po, Lampang (W. 15A) 60
31. Wang River at Ban Hai, Lampang (W. 16) 62
32. Nam Mae Soi at Ban Nong Now, Lampang (W. 17) 64

YOM RIVER BASIN

33. Yom River at Ban Nam Khong, Phrae (Y. 1C) 66
34. Yom River at Sawankhalok, Sukhothai (Y. 3A) 68
35. Yom River at Ban Kaeng Luang, Sukhothai (Y. 6) 70
36. Ngao River at Ngao, Lampang (Y. 13) 72
37. Yom River at Ban Don Rabiang, Sukhothai (Y. 14) 74
38. Yom River at Ban Ngao Sak, Phrae (Y. 20) 76
39. Nam Pi at Ban Mang, Phayao (Y. 24) 78
40. Nam Mae Suat at Ban Pa Kha Noi, Nan (Y. 25) 80
41. Nam Mae Mok at Ban Mae Phu, Lampang (Y. 26) 82

NAN RIVER BASIN

42. Nan River at Nan, Nan (N. 1) 84
43. Nan River at Phichai, Uttaradit (N. 4A) 86
44. Nan River at Phitsanulok, Phitsanulok (N. 5A) 88
45. Nan River at Phichit, Phichit (N. 7) 90
46. Nan River at Taphan Hin, Phichit (N. 10A) 92
47. Nan River at Ban Hat Phai, Uttaradit (N. 12A) 94
48. Nan River at Ban Mon, Nan (N. 17) 96
49. Khwae Noi at Ban Yang, Phitsanulok (N. 22) 98
50. Mae Nam Khek at Ban Wang Nok Aen, Phitsanulok (N. 24) 100

Page

51. Nan River at Tron, Uttaradit (N. 26) 102
52. Nan River at Phrom Phiram, Phitsanulok (N. 27A) 104
53. Khlong Tron at Ban Na Klam, Uttaradit (N. 28B) 106
54. Nam Pat at Ban Wang Bang, Uttaradit (N. 33) 108
55. Nan River at Kaeng Sarang, Nan (N. 35) 110
56. Khwae Noi at Ban Nong Krathao, Phitsanulok (N. 36) 112
57. Khwae Noi at Ban Nong Bon, Phitsanulok (N. 40) 114
58. Nam Wa at Ban Hat Khao San, Nan (N. 42) 116
59. Nam Hao at Ban Yu, Nan (N. 44) 118
60. Nam Khun at Ban Hua Nam, Nan (N. 47). 120
61. Nam Yao at Ban Nam Yao, Nan (N. 49) 122
62. Nam Pua at Ban Rong, Nan (N. 50) 124
63. Huai Nam Yao at BanWang Hit, Nan (N. 51) 126
64. Nam Yang at Ban Don Mun, Nan (N. 52) 128
65. Khlong Butsabong at Ban Huai Tum, Phetchabun (N. 53) 130

CHAO PHRAYA RIVER BASIN

66. Chao Phraya River at Khai Chira Prawat, Nakhon Sawan (C. 2) .. 132
67. Chao Phraya River at Ban Bang Kaeo, Ang Thong (C. 7A) 134
68. Chao Phraya River at Wat Pho Ngam, Chai Nat (C. 13) 136

SAKAE KRANG RIVER BASIN

69. Nam Wang Ma at San Chao Kai To, Nakhon Sawan (Ct. 4). . .. 138
70. Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct. 5A) .. 140
71. Khlong Pho at Ban Hang Rai, Nakhon Sawan (Ct. 7) 142
72. Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (Ct. 9) . .. 144

PASAK RIVER BASIN

73. Lam Muak Lek at Muak Lek, Saraburi (S. 7) 146
74. Pa Sak River at Ban Muang Nua, Saraburi (S. 9). 148
75. Nam Phung at Ban Hin Hao, Phetchabun (S. 10) 150
76. Lam Kong at Ban Wang Tha Di, Phetchabun (S. 12) 152
77. Lam Sonthi at Ban Tha Yiam, Lop Buri (S. 13) 154
78. Lam Sonthi at Ban Na Som, Lop Buri (S. 14) 156
79. Huai Wang Chomphu at BanWang Chomphu, Phetchabun (S. 15) .. 158
80. Huai Na at Ban Huai Na, Phetchabun (S. 16) 160
81. Huai Nam Chun at Ban Fai Wang Bon, Phetchabun (S. 17) 162

SALAWIN RIVER BASIN

82. Huai Mae Lamao at Ban Mae Lamao, Tak (Sw. 6) 164

Page

MAE KHONG RIVER BASIN

83. Huai Mong at Ban Na Ang, Udon Thani (Kh. 18) 166
84. Nam Phung at Ban Tao Ngoi, Sakon Nakhon (Kh. 21B) 168
85. Loei River at Wat Ku Kam, Loei (Kh. 43) 170
86. Loei River near Ban Sai Khao, Loei (Kh. 43A) 172
87. Huai Luang at Nong Wua So, Udon Thani (Kh. 53) 174
88. Huai Nam Man at Ban Pong Bia, Loei (Kh. 57). 176
89. Mae Nam Songkhram at Ban Dong Yen, Udon Thani (Kh. 60) .. 178
90. Huai Nam Kam at Ban Dan Muang Kham, Sakhon Nakhon (Kh. 63) 180
91. Lam Nam Bang at Ban Dong I Nam, Nakhon Phanom (Kh. 66) .. 182
92. Lam Nam Bang at Ban Phra Song, Nakhon Phanom (Kh. 68). .. 184
93. Huai Nam Kam at Na Kae, Nakhon Phanom (Kh. 69) 186
94. Huai Nam Phung at BanTham Hai, Sakon Nakhon (Kh.70). . .. 188
95. Huai Nam Yam at Ban Khon Sai, Sakon Nakhon (Kh. 71) 190

CHI RIVER BASIN

96. Chi River at Wat Tai Kosum, Maha Sarakham (E. 1). 192
97. Chi River at Ban Non Puai, Chaiyaphum (E. 5). 194
98. Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E. 6C) 196
99. Chi River at Ban Tha Khon Yang, Maha Sarakham (E. 8A). . .. 198
100. Chi River at Ban Tha Phra, Khon Kaen (E. 16A) 200
101. Nam Phong at Ban Tha Hin, Khon Kaen (E. 17) 202
102. Chi River at Ban Tha Khrai, Roi Et (E. 18) 204
103. Chi River at Maha Chana Chai, Yasothon (E. 20A) 206
104. Chi River at Ban Kaeng Ko, Chaiyaphum (E. 21) 208
105. Nam Phong at Ban Nong Wai, Khon Kaen (E. 22A) 210
106. Chi River at Ban Khai, Chaiyaphum (E. 23) 212
107. Lam Phan at Ban Hua Khua, Kalasin (E. 26) 214
108. Nam Phong at Ban Pha Nok Khao, Loei (E. 29). 216
109. Chi River at Ban Nong O, Chaiyaphum (E. 32A) 218
110. Nam Yang at Ban Nong Saeng Thung, RoiEt (E. 33A) 220
111. Huai Prong Khun Phet at Ban Thap Nai, Chaiyaphum (E. 35A) .. 222
112. Lam Kachuan at Ban Tha Bon, Chaiyaphum (E. 36A). 224
113. Lam Choen at Ban Don Han, Khon Kaen (E. 38). 226
114. Lam Chi Long at Ban Kut Yang, Chaiyaphum (E. 49) 228
115. Nam Yang at Ban Kaeng Yao, Kalasin (E. 54). 230
116. Lam Khan Chu at Ban Khok Phangat, Chaiyaphum (E. 60) 232

MUN RIVER BASIN

117. Mun River at Ban Ta Kut Khon, Nakhon Ratchasima (M. 2) . .. 234
118. Mun River at Rasi Salai, Si Sa Ket (M. 5) 236
119. Mun River at Satuk, Buri Ram (M. 6A) 238
120. Lam Chi at Ban Lam Chi, Surin (M. 26) 240

Page

121. Lam Se Bai at Ban Nong Bua, Yasothon (M. 32) 242
122. Lam Sieo Noi at Ban Yang Loeng, Roi Et (M. 35) 244
123. Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M. 42) . .. 246
124. Lam Takhong at Ban Mu Si, Nakhon Ratchasima (M. 43) 248
125. Mun River at Ban Na, Nakhon Ratchasima (M. 49B). 250
126. Huai Khayung at Ban Nam Om, Si Sa Ket (M. 66) 252
127. Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M. 69) .. 254
128. Huai Kwang at Ban Kaeng Yang, Ubon Ratchathani (M. 75) .. 256
129. Lam Dom Yai at Det Udom, Ubon Ratchathani (M. 80) 258
130. Lam Sae at Ban Map Krat, Nakhon Ratchasima (M. 81) 260
131. Lam Sae at Ban Map Krat, Nakhon Ratchasima (M. 81A) 262
132. Lam Chi at Ban Charok Yai, Buri Ram (M. 85) 264
133. Lam Takhong at Pak Chong, Nakhon Ratchasima (M.89) 266
134. Huai Samran at Ban Tamuan, Si Sa Ket (M. 91) 268
135. Lam Phang Chu at Ban Hua Saphan, Buri Ram (M. 92) 270
136. Huai Seo at Ban Pan Ro, Buri Ram (M. 93) 272
137. Huai Tha at BanAlang, Si Sa Ket (M. 98) 274
138. Huai Tako at Ban Khok Kachao, Buri Ram (M.99) 276
139. Huai Saneng at Ban Bu Chek, Surin (M. 100) 278
140. Huai Thap Than at Ban Yaeng, Surin (M. 101) 280
141. Huai Sen at Ban Phon Chai, Surin (M. 102) 282
142. Huai Khok Rak Kut Pla Kheng at Wat Sa Chorakhe, Nakhon Ratchasima (M. 103) 284
143. Lam Chakkarat at Chakkarat, Nakhon Ratchasima (M. 105) . .. 286
144. Lam Phang Chu at Ban Mek Dam, Maha Sarakham (M. 107) . .. 288
145. Lam Phang Chu at Ban Sa Khut, Surin (M. 108) 290

TONEL SAP BASIN

146. Huai Phrom Hot at Ban Dan, Prachin Buri (TL. 1) 292

NAKHON NAYOK RIVER BASIN

147. Khlong Ban Na at Ban Pa Kha, Nakhon Nayok (Ny. 3) 294

PRACHIN BURI RIVER BASIN

148. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt. 3) 296
149. Khlong Phra Sathung at Ban Khao Chakan, Prachin Buri (Kgt. 9). . 298
150. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt. 10). . 300
151. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt. 12) 302
152. Khlong Phra Prong at Ban Nang Leng, Prachin Buri (Kgt. 13) .. 304
153. Huai Yang at Ban Thung Faek, Prachin Buri (Kgt. 14) 306
154. Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt. 15A). .. 308
155. Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt. 18) 310
156. Khlong Luang at Ban Mai, Chon Buri (Kgt. 19) 312

Page

157. Prachantakham River at Ban Takhro, Prachin Buri (Kgt. 24) . . . 314
158. Khlong Rabom at Ban Cham Pa Ngam, Chachoengsao (Kgt. 25) . . 316

EAST COAST-GULF BASIN

159. Khlong Nong Pla Lai at Ban Nong Mapring, Rayong (Z. 4) . . . 318
160. Khlong Prasae at Ban Yang Ngam, Rayong (Z. 5) 320
161. Khlong Ta Not at Ban Thap Chum, Chanthaburi (Z. 7) 322
162. Khlong Yai at Ban Si Bua Thong, Trat (Z. 10). 324
163. Chanthaburi River at Ban Puk, Chanthaburi (Z. 13) 326
164. Khlong Yai at Ban Pak Phraek, Rayong (Z. 15) 328
165. Khlong Ra-Ok at Ban Ra-Ok, Rayong(Z. 16) 330

MAE KLONG RIVER BASIN

166. Khwae Noi at Ban Lum Sum, Kanchanaburi (K. 10) 332
167. Mae Klong River at Ban Wang Khanai, Kanchanaburi (K. 11) . . 334
168. Lam Taphoen at Ban Thung Na Nang Rok, Kanchanaburi (K. 12). . 336
169. Khwae Noi at Ban Tha Khanun, Kanchanaburi (K. 13) 338
170. Lam Phachi at Ban Bo, Ratchaburi (K. 17) 340
171. Huai Mae Nam Noi at Tha Thung Na, Kanchanaburi (K. 22A) . . 342
172. Huai Tha Khaei at Ban Bung, Ratchaburi (K. 25) 344
173. Khwae Yai at Ban Lat Ya, Kanchanaburi (K. 26) 346
174. Lam Taphoen at Ban Wang Yai, Kanchanaburi (K. 27) 348
175. Huai Samnak Mai Teng at Ban Nam Phu, Ratchaburi (K. 28) . . 350

PHETCHABURI RIVER BASIN

176. Phetchaburi River at Ban Rai Phaniat, Phetchaburi (B. 1A). . . . 352
177. Phetchaburi River at Phet Barrage, Phetchaburi (B. 2A) 354
178. Phetchaburi River at Ban Song Phi Nong, Phetchaburi (B. 3) . . 356
179. Phetchaburi River at Ban Wang Won, Phetchaburi (B. 5) 358
180. Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B. 6). . . . 360
181. Huai Mae Prachan at Ban Nong Bua, Phetchaburi (B.7) 362
182. Huai Phak at Ban Kariang, Phetchaburi (B. 8) 364

PRAN BURI RIVER BASIN

183. Pran Buri River at Pran Buri Damsite, Prachuap Khiri Khan (Pr. 3A) 366

WEST COAST-GULF BASIN

184. Khlong Kui at Ban Pong Kasang, Prachuap Khiri Khan (Ky. 2) . . 368
185. Khlong Bung at Ban Wang Sai Ding, Prachuap Khiri Khan (Gt. 5) . 370
186. Huai Yang Khwang at Ban Rai Nai, Prachuap Khiri Khan (Gt. 6) . 372

Page

187. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt. 7) 374
188. Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt. 9) .. 376
189. Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan (Gt. 10) 378
190. Huai Yang at BanChang Laek, Prachuap Khiri Khan (Gt. 11) .. 380

SOUTHERN PENINSULAR EAST COAST

191. Khlong Rap Ro at Ban Hat Taeng, Chumphon (X. 46A) 382
192. Khlong Chumphon at Ban Siap Yuan, Chumphon (X. 53) 384
193. Khlong Tha Sae at Tha Sae, Chumphon (X. 64) 386
194. Khlong Phum Duang at Ban Tha Tun, Surat Thani (X. 6B) 388
195. Khlong Tha Chang at Ban Hiang, Surat Thani (X.130) 390
196. Tapi River at Phrasaeng, Surat Thani (X. 37A) 392
197. Khlong Saeng at Ban Khao Phang, Surat Thani (X. 39) 394
198. Khlong Sok at Ban Lang Tham, Surat Thani (X. 58) 396
199. Khlong Lam Phun at Ban Plai Nam, Surat Thani (X.80) 398
200. Khlong Chawang at Ban Na San, Surat Thani (X. 81) 400
201. Khlong Tan at Ban Wiang Sa, Surat Thani (X.99) 402
202. Khlong Takhian at Ban Rim Khlong, Surat Thani (X. 103) 404
203. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X. 104) .. 406
204. Khlong Chaiya at Ban Muang, Surat Thani (X. 106) 408
205. Khlong Tha Thon at Ban Nam Cha, Nakhon Si Thammarat (X. 101) 410
206. Khlong Sang at Ban Thang Kham, Nakhon Si Thammarat (X. 102A) 412
207. Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X. 105) 414
208. Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109) . 416
209. Khlong Na Thawi at Ban Pa Kan, Songkhla (X. 42) 418
210. Khlong U Taphao at Ban Khok Samet Chum, Songkhla (X. 44) .. 420
211. Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X. 67) .. 422
212. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90) 424
213. Khlong Sadao at Ban Phrai, Songkhla (X. 111) 426
214. Khlong Lam at Ban Prik (I), Songkhla (X. 112) 428
215. Khlong Lam at BanThung Prap (I), Songkhla (X. 113) 430
216. Pattani River at Ban Talat Kao, Yala (X. 40) 432
217. Sai Buri River at Ban Ya Kong, Narathiwat (X. 45) 434
218. Kolok River at Sungai Kolok, Narathiwat (X. 119) 436
219. Khlong Waeng at Waeng, Narathiwat (X. 121) 438

SOUTHERN PENINSULAR WEST COAST

220. Khlong Ao Yon at Ban Ao Yon, Phuket (X. 97) 440
221. Trang River at BanTha Pradu, Trang (X. 56) 442

Page

222. Khlong Chi at Ban Khlong Chi, Trang (X. 107) 444
223. Khlong Kalase Yai at Ban Rom Muang, Trang (X. 108) 446
224. Khlong Lamphu La at Ban Thung Ngiu, Trang (X. 110). 448

LOCATION MAP OF HYDROLOGIC OBSERVATION STATIONS IN 1982 WATER YEAR

SUSPENDED SEDIMENT STATION

1. Ping River at Ban Tha Sala, Chiang Mai (P. 19A) 450
2. Nam Mae Kuang at Ban Pha Taek, Chiang Mai (P. 34). 451
3. Yom River at Ban Don Rabiang, Sukhothai (Y. 14) 452
4. Nam Pat at Ban Wang Bang, Uttaradit (N. 33) 453
5. Chao Phraya River at Nakhon Sawan, Nakhon Sawan (C. 2) . .. 454
6. Pa Sak River at Ban Muang Nua, Saraburi (S. 9). 455
7. Chi River at Ban Nong O, Chaiyaphum (E. 32A). 456
8. Lam Dom Yai at Det Udom, Ubon Ratchathani (M. 80) 457
9. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt. 3). 458
10. Khlong Phra Sathung at BanWang Khian, Prachin Buri (Kgt. 10) .. 459
11. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt. 12) 460
12. Huai Yang at BanThung Faek, Prachin Buri (Kgt. 14) 461
13. Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B. 6) 462

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ILLUSSTRATION OF STREAM GAGING ACTIVITIES

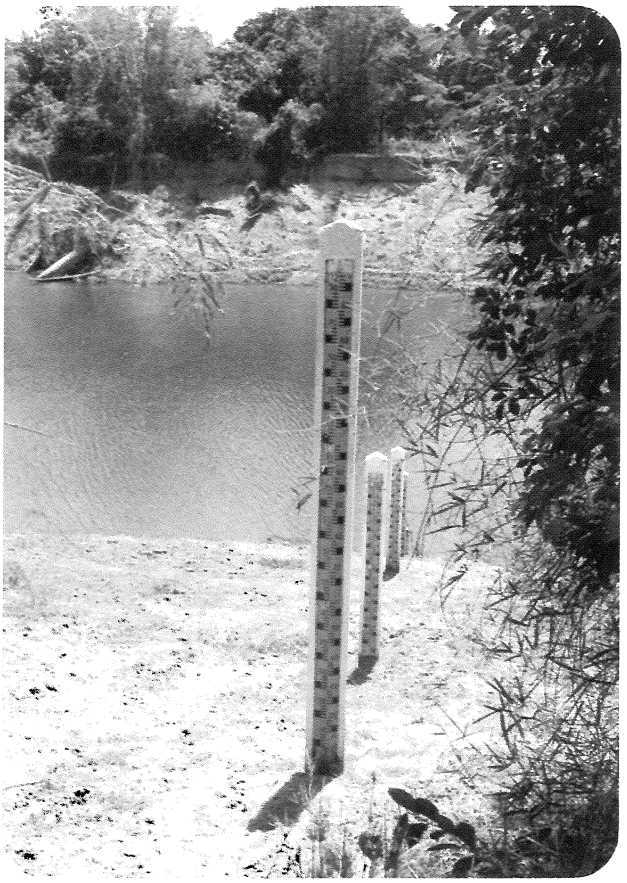


Fig. 1 Typical vertical staff gage

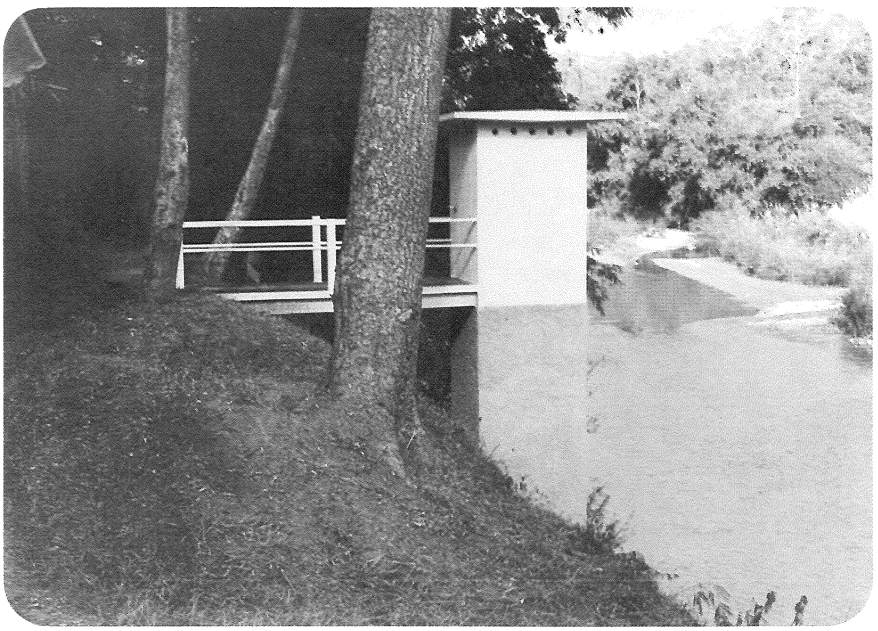


Fig. 2 Typical shelter for water level recorder (Float Type)

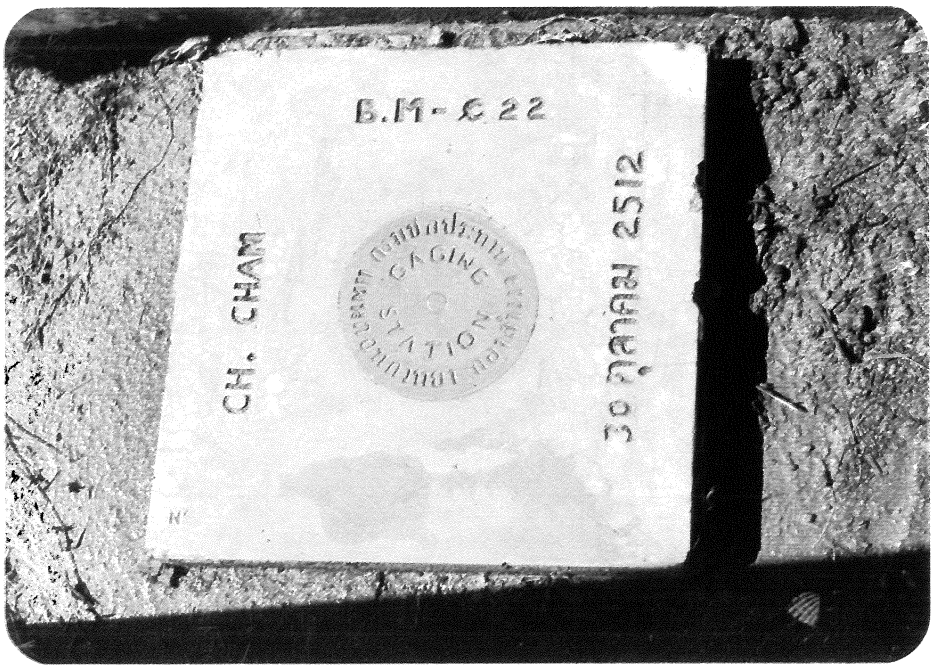


Fig. 3 Standard bench mark

Fig. 4 Close - up of rating operation

Fig. 5 Standard hydrologic equipment

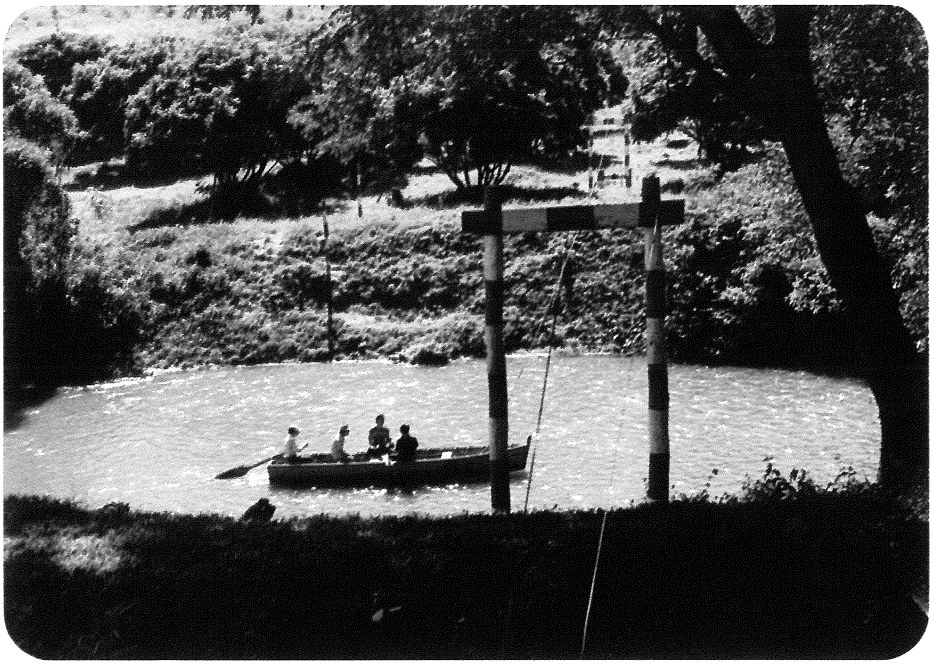


Fig. 6 Measuring line

Fig. 7 Camp for hydrological station

HYDROLOGICAL YEAR BOOK PUBLICATION

* * * * * * *

Introduction

Great attempt has been made all along to expedite the engineering processing of the streamflow data to be ready for publication, and to translate the publication plan into implementation. Efforts from various working units as well as personnel concerned are pulled together to drive this work into reality. Publication of streamflow 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 gaging stations in 59 streams.

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXI. Terms related to streamflow 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, within the area unless otherwise noted.

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.

Gaging 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 gaging station" is applied only those gaging stations where only a gage height record is observed at an installed staff gage. If a water stage recorder is also installed, such a gaging station is referred as recording gaging station. In case of discharge measurements being practiced, it is referred as streamflow 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 9 of 12 months. Thus, the year began April 1, 1969 is called the "1969 water year".

Order of listing of gaging data

In this format, gaging 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 letter 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 streamflow rating station ever built in this river.

Series of yearbook publications

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

Volume	Water Years	No. of station - years	Date of Issuance
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

Volume	Water Years	No. of Station-Years	Date of Issuance
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	May 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

The preparation of the manuscripts of the further Volumes 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 gaging stations is primarily based upon the urgent need at various damsites 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 streamflow 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 enamelled staff gage sections 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 being 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 for 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 streamflow gaging 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 streamflow gaging 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 cableway across the river is one of typical means of flow measurement by current meter for medium river, 100 m wide. For 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 overbank flow stage. The overbank 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 gaging 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.

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 tailwaters of existing reservoirs.

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

Review of procedure for streamflow 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) Datums 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 streamflow 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

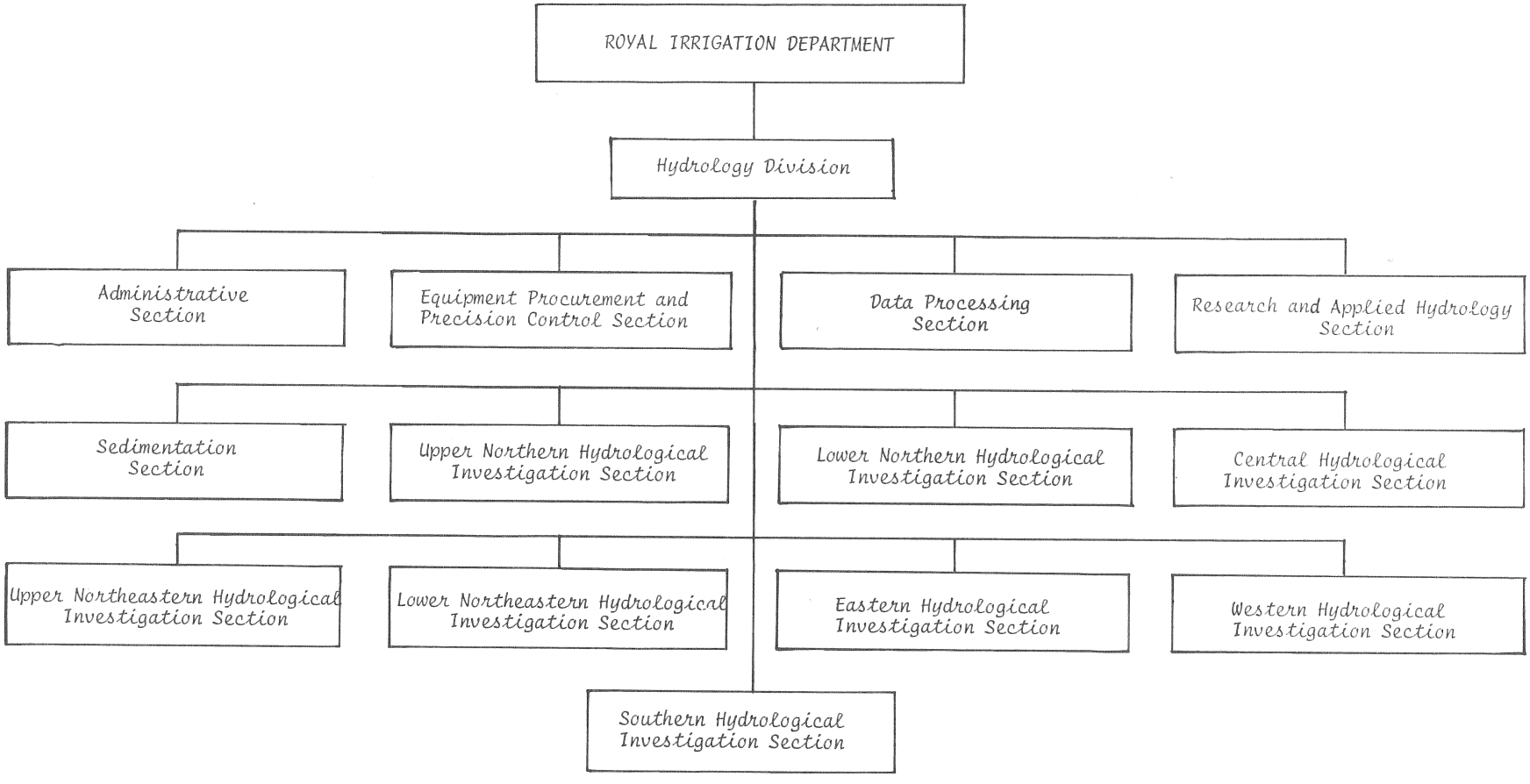
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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, analyse 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 Sequencial 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 agencywise. 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 agencywise; raw data and analysed data either in the form of computer printouts or in the direct accessible forms like cards of tapes controlled by basin, sub-basin, region, station and data type. Data stored can also be available in the form of punched cards or punched card image on magnetic tapes so that they can be accessed by FORTRAN programs.

Organization

Streamflow 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:-


ROYAL IRRIGATION DEPARTMENT
Hydrology Division
Administrative Section
Equipment Procurement and Precision Control Section
Data Processing Section
Research and Applied Hydrology Section
Sedimentation Section
Upper Northern Hydrological Investigation Section
Lower Northern Hydrological Investigation Section
Central Hydrological Investigation Section
Upper Northeastern Hydrological Investigation Section
Lower Northeastern Hydrological Investigation Section
Eastern Hydrological Investigation Section
Western Hydrological Investigation Section
Southern Hydrological Investigation Section

PARTICIPATION IN STREAM GAGING WORKS

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Among 22 water related government agencies, several of them operate streamflow gaging 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, streamflow, 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 gaging 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 stations 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 gaging works is the Hydrometeorology Division of the Meteorological Department. With the technical and financial support from the World Meteorelogical Organization, this agency began the stream gaging works in 1967. Up till now, about 11 discharge stations and 32 stage stations are under operation. The stream gaging data are also included in their yearbook.

The last agency which operates the stream gaging 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 gaging 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 units published herein to the English units.

Multiply metric or Thai units	By	To obtain English units
	Length	
millimeters (mm)	.03973	inches (in)
meters (m)	39.37	inches (in)
	3.2808	feet (ft)
	1.0936	yards (yd)
	.1988	rods
kilometers (km)	.6214	miles (mi)
	Area	
square meters (m^2)	10.76	square feet (ft^2)
	1.196	square yards (yd^2)
	2.47×10^{-4}	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)
	Volume	
liters (l)	.2642	gallons (gal)
cubic decimeters (dm^3)	.2642	gallons (gal)
	.03531	cubic feet (ft^3)
cubic meters (m^3)	264.2	gallons (gal)
	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)
cubic hectometers (hm^3)	264.2	million gallons (10^6 gal)
	408.6	cfs-day (ft^3/s-day)
	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)
	Flow	
liters per second (l/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day(mgd)

Multiply metric or Thai units	By	To obtain English units
	Flow (Cont.)	
cubic meters per second (m^3/s)	35.31	cubic feet per second (ft^3/s)
	15,850	gallons per minute (gpm)
	22.82	million gallons per day(mgd)

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Stream Gaging Data

Water Year 1982

WATER YEAR 1982
PING RIVER BASIN

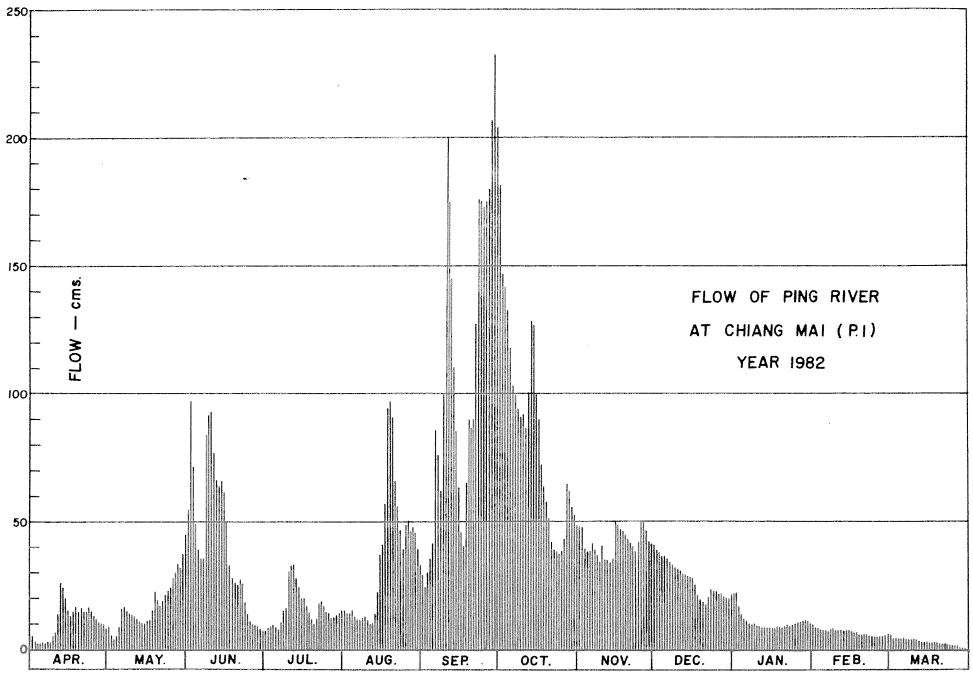
PING RIVER AT CHIANG MAI, CHIANG MAI (P.1)

LOCATION	LAT. 18°-47'-09" N., LONG. 99°-00'-29" E., ON LEFT BANK ABOUT 100 METERS DOWNSTREAM FROM NAWARAT BRIDGE, AMPHOE MUANG, CHIANG MAI.
DRAINAGE AREA	6,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+300.500 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+305.31 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1921 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	1936-1938
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 11,200 HECTARES AT MAE FAEK WEIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	301.28	301.34	301.82	301.34	301.48	301.60	303.05	301.76	301.70	301.55	301.36	301.30	
2	301.21	301.28	302.05	301.36	301.47	301.57	302.76	301.76	301.69	301.49	301.36	301.24	
3	301.20	301.23	301.83	301.38	301.47	301.66	302.70	301.70	301.68	301.44	301.35	301.24	
4	301.15	301.23	301.72	301.38	301.48	301.69	302.62	301.70	301.68	301.42	301.34	301.24	
5	301.15	301.30	301.70	301.37	301.44	301.76	302.43	301.70	301.67	301.42	301.34	301.24	
6	301.16	301.42	301.67	301.37	301.42	301.98	302.25	301.72	301.66	301.41	301.34	301.24	
7	301.15	301.49	301.68	301.43	301.43	301.92	302.22	301.70	301.65	301.40	301.36	301.23	
8	301.19	301.50	302.03	301.48	301.44	301.85	302.06	301.68	301.64	301.40	301.35	301.23	
9	301.28	301.47	302.07	301.50	301.45	302.30	302.01	301.66	301.64	301.38	301.35	301.22	
10	301.32	301.45	302.07	301.65	301.42	302.93	302.04	301.71	301.63	301.38	301.35	301.22	
11	301.51	301.44	301.93	301.65	301.41	303.18	301.98	301.74	301.62	301.38	301.34	301.22	
12	301.60	301.43	301.87	301.65	301.40	302.84	302.18	301.74	301.62	301.38	301.33	301.20	
13	301.57	301.41	301.86	301.59	301.47	302.37	302.57	301.73	301.62	301.37	301.33	301.19	
14	301.52	301.39	301.88	301.57	301.59	301.95	302.55	301.75	301.61	301.37	301.33	301.18	
15	301.47	301.41	301.84	301.53	301.70	301.81	302.21	301.77	301.61	301.37	301.32	301.17	
16	301.45	301.42	301.72	301.53	301.72	301.71	302.01	301.76	301.57	301.37	301.32	301.16	
17	301.49	301.43	301.64	301.50	301.84	301.71	301.91	301.75	301.54	301.37	301.31	301.14	
18	301.49	301.50	301.61	301.46	302.12	301.95	301.85	301.75	301.53	301.37	301.29	301.13	
19	301.48	301.56	301.59	301.43	302.15	302.00	301.81	301.74	301.52	301.37	301.30	301.12	
20	301.50	301.52	301.58	301.41	302.01	301.98	301.76	301.73	301.51	301.38	301.30	301.11	
21	301.47	301.50	301.61	301.45	301.86	302.11	301.72	301.72	301.55	301.38	301.30	301.10	
22	301.49	301.54	301.59	301.52	301.80	302.61	301.70	301.71	301.57	301.39	301.28	301.08	
23	301.50	301.55	301.50	301.52	301.74	303.00	301.69	301.70	301.56	301.38	301.27	301.07	
24	301.47	301.57	301.45	301.49	301.70	302.99	301.69	301.72	301.56	301.39	301.27	301.06	
25	301.45	301.57	301.42	301.47	301.77	302.98	301.70	301.78	301.55	301.41	301.27	301.05	
26	301.42	301.61	301.40	301.45	301.78	303.00	301.74	301.78	301.55	301.42	301.27	301.03	
27	301.41	301.64	301.38	301.43	301.75	303.05	301.87	301.75	301.54	301.42	301.27	301.01	
28	301.40	301.70	301.36	301.45	301.76	303.27	301.85	301.72	301.53	301.42	301.29	301.00	
29	301.38	301.69	301.35	301.47	301.74	303.40	301.81	301.72	301.53	301.42		300.99	
30	301.36	301.73	301.33	301.47	301.70	303.22	301.79	301.71	301.55	301.40		300.97	
31		301.75		301.48	301.65		301.76		301.55	301.40		300.96	
MEAN	301.38	301.49	301.68	301.48	301.65	302.35	302.07	301.73	301.59	301.40	301.32	301.14	
MAX	301.60	301.75	302.07	301.65	302.15	303.40	303.05	301.78	301.70	301.55	301.36	301.30	303.40
MIN	301.15	301.23	301.33	301.34	301.40	301.57	301.69	301.66	301.51	301.37	301.27	300.96	300.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 303.44 M (MSL), AT 16.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 300.50 M (MSL), RIVER BED 299.36 M (MSL)
LEFT BANK ELEVATION 307.78 M (MSL)
RIGHT BANK ELEVATION 307.65 M (MSL), DRAINAGE AREA 6355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.40	7.60	57.20	7.60	15.60	27.00	181.83	48.00	39.00	22.00	8.40	6.00	
2	3.30	5.40	92.50	8.40	14.90	24.00	147.00	48.00	37.80	16.30	8.40	4.20	
3	3.00	3.90	58.80	9.20	14.90	34.20	141.00	39.00	36.60	12.80	8.00	4.20	
4	2.50	3.90	42.00	9.20	15.60	37.80	133.00	39.00	36.60	11.40	7.60	4.20	
5	2.50	6.00	39.00	8.80	12.80	48.00	116.40	39.00	35.40	11.40	7.60	4.20	
6	2.60	11.40	35.40	8.80	11.40	86.00	103.50	42.00	34.20	10.70	7.60	4.20	
7	2.50	16.30	36.60	12.10	12.10	74.00	101.40	39.00	33.00	10.00	8.40	3.90	
8	2.90	17.00	91.50	15.60	12.80	62.00	93.00	36.60	31.80	10.00	8.00	3.90	
9	5.40	14.90	93.50	17.00	13.50	107.00	90.50	34.20	31.80	9.20	8.00	3.60	
10	6.80	13.50	93.50	33.00	11.40	167.03	92.00	40.50	30.60	9.20	8.00	3.60	
11	18.00	12.80	76.00	33.00	10.70	199.20	86.00	45.00	29.40	9.20	7.60	3.60	
12	27.00	12.10	65.20	33.00	10.00	155.93	99.00	45.00	29.40	9.20	7.20	3.00	
13	24.00	10.70	63.60	26.00	14.90	111.90	128.30	43.50	29.40	8.80	7.20	2.90	
14	19.00	9.60	66.80	24.00	26.00	80.00	126.50	46.50	28.20	8.80	7.20	2.80	
15	14.90	10.70	60.40	20.00	39.00	55.60	100.70	49.50	28.20	8.80	6.80	2.70	
16	13.50	11.40	42.00	20.00	42.00	40.50	90.50	48.00	24.00	8.80	6.80	2.60	
17	16.30	12.10	31.80	17.00	60.40	40.50	72.00	46.50	21.00	8.80	6.40	2.40	
18	16.30	17.00	28.20	14.20	96.00	80.00	62.00	46.50	20.00	8.80	5.70	2.30	
19	15.60	23.00	26.00	12.10	97.50	90.00	55.60	45.00	19.00	8.80	6.00	2.20	
20	17.00	19.00	25.00	10.70	90.50	86.00	48.00	43.50	18.00	9.20	6.00	2.10	
21	14.90	17.00	28.20	13.50	63.60	95.50	42.00	42.00	22.00	9.20	6.00	2.00	
22	16.30	21.00	26.00	19.00	54.00	132.00	39.00	40.50	24.00	9.60	5.40	1.80	
23	17.00	22.00	17.00	19.00	45.00	175.67	37.80	39.00	23.00	9.20	5.10	1.70	
24	14.90	24.00	13.50	16.30	39.00	174.43	37.80	42.00	23.00	9.60	5.10	1.60	
25	13.50	24.00	11.40	14.90	49.50	173.20	39.00	51.00	22.00	10.70	5.10	1.50	
26	11.40	28.20	10.00	13.50	51.00	175.67	45.00	51.00	22.00	11.40	5.10	1.30	
27	10.70	31.80	9.20	12.10	46.50	181.83	65.20	46.50	21.00	11.40	5.10	1.10	
28	10.00	39.00	8.40	13.50	48.00	211.80	62.00	42.00	20.00	11.40	5.70	1.00	
29	9.20	37.80	8.00	14.90	45.00	232.00	55.60	42.00	20.00	11.40		0.95	
30	8.40	43.50	7.20	14.90	39.00	204.80	52.50	40.50	22.00	10.00		0.85	
31		46.50		15.60	33.00		48.00		22.00	10.00		0.80	
TOTAL	344.80	573.10	1263.90	506.90	1135.60	3363.56	2592.13	1300.80	834.40	326.10	189.50	83.20	12513.99 CMSDAY
MEAN	11.49	18.49	42.13	16.35	36.63	112.12	83.62	43.36	26.92	10.52	6.77	2.68	34.28 CMS
MAX	27.00	46.50	93.50	33.00	97.50	232.00	181.83	51.00	39.00	22.00	8.40	6.00	232.00 CMS
MIN	2.50	3.90	7.20	7.60	10.00	24.00	37.80	34.20	18.00	8.80	5.10	0.80	0.80 CMS
RUNOFF	29.791	49.516	109.201	43.796	98.116	290.612	223.960	112.389	72.092	28.175	16.373	7.188	1081.209 MCM

MOMENTARY PEAK 238.40 CMS, AT 303.44 M (MSL), AT 16.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD 5.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

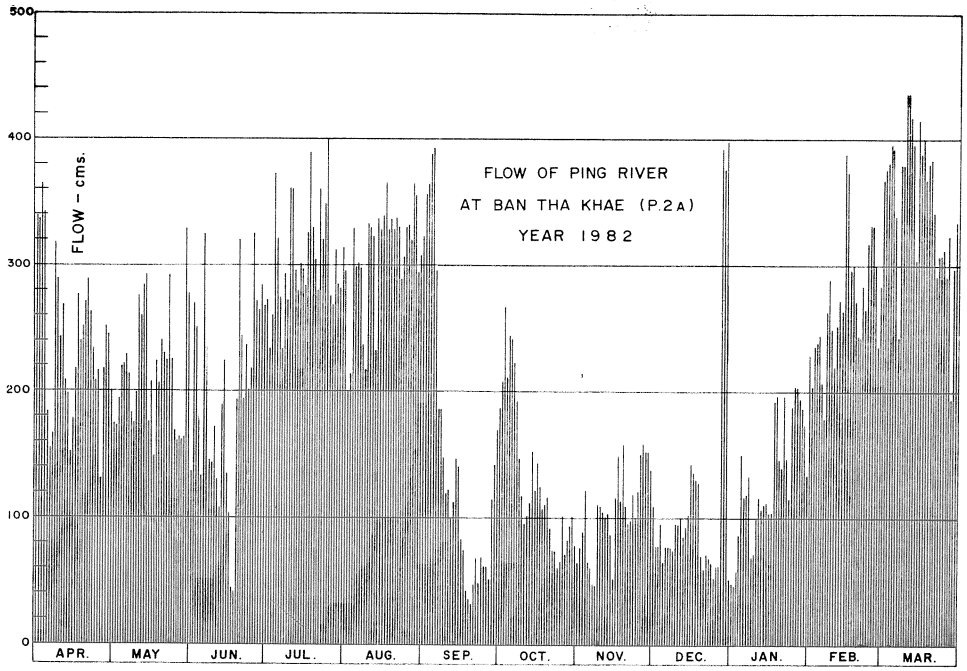
PING RIVER AT BAN THA KHAE, TAK (P.2A)

LOCATION	LAT. 16°-51'-14" N., LONG. 99°-07'-50" E., ON RIGHT BANK ABOUT 200 METERS DOWNSTREAM FROM KITTIKHACHON I BRIDGE, BAN THA KHAE, AMPHOE MUANG, TAK.
DRAINAGE AREA	38,862 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+104.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+115.321 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN 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 FLOAT	-
RATED BY CURRENT METER	1952-1960, 1963-1967, 1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR SINCE 1964. UPSTREAM STATE DIVERSION FOR IRRIGATION ABOUT 40,300 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 80 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	105.85	105.42	105.29	105.68	105.73	105.81	105.45	105.05	105.21	104.99	105.58	105.91	
2	105.84	105.41	105.67	105.58	105.50	105.89	105.53	105.10	105.10	104.98	105.51	105.94	
3	105.91	105.49	105.61	105.66	105.54	105.91	105.66	105.15	105.09	105.03	105.59	105.95	
4	105.83	105.55	105.33	105.93	105.82	105.97	105.53	105.24	105.15	105.13	105.59	105.99	
5	105.44	105.55	105.28	105.84	105.74	105.98	105.61	105.05	105.05	105.33	105.61	105.98	
6	105.35	105.57	105.81	105.74	105.76	105.80	105.60	105.03	105.09	105.23	105.55	105.91	
7	105.39	105.53	105.55	105.58	105.74	105.45	105.56	104.98	105.09	105.23	105.43	105.61	
8	105.80	105.45	105.32	105.73	105.58	105.45	105.48	104.98	105.09	105.28	105.69	105.95	
9	105.70	105.42	105.31	105.68	105.54	105.33	105.28	105.20	105.08	105.06	105.72	105.95	
10	105.61	105.51	105.41	105.90	105.83	105.23	105.21	105.20	105.15	105.07	105.63	106.07	
11	105.67	105.69	105.27	105.90	105.82	105.24	105.15	105.18	105.15	105.18	105.55	106.07	
12	105.52	105.65	105.19	105.74	105.80	105.17	105.17	105.17	105.17	105.22	105.63	106.02	
13	105.49	105.71	105.46	105.70	105.58	105.23	105.22	105.18	105.12	105.19	105.68	105.99	
14	105.34	105.73	105.56	105.75	105.84	105.32	105.34	105.13	105.15	105.20	105.66	105.76	
15	105.45	105.42	105.30	105.74	105.82	105.30	105.24	105.01	105.20	105.21	105.97	106.03	
16	105.55	105.52	105.22	105.71	105.85	105.11	105.31	105.22	105.31	105.18	105.93	105.97	
17	105.69	105.33	104.97	105.84	105.91	105.08	105.26	105.33	105.29	105.18	105.74	106.00	
18	105.60	105.56	104.96	105.97	105.82	104.96	105.19	105.21	105.27	105.47	105.75	105.92	
19	105.63	105.52	105.49	105.83	105.84	104.92	105.20	105.36	105.26	105.49	105.72	105.95	
20	105.68	105.60	105.80	105.75	105.82	104.91	105.22	105.20	105.08	105.33	105.61	105.96	
21	105.72	105.58	105.58	105.70	105.84	104.99	105.13	105.15	105.03	105.30	105.61	105.85	
22	105.66	105.56	105.47	105.90	105.82	105.06	105.08	105.16	105.07	105.49	105.71	105.73	
23	105.59	105.73	105.59	105.80	105.72	104.99	105.08	105.23	105.06	105.34	105.66	105.77	
24	105.52	105.60	105.50	105.95	105.78	105.06	105.03	105.17	105.05	105.22	105.80	105.77	
25	105.54	105.42	105.56	106.00	105.82	105.04	105.05	105.24	105.01	105.44	105.83	105.78	
26	105.27	105.37	105.81	105.69	105.83	105.04	105.17	105.33	105.04	105.51	105.83	105.73	
27	105.56	105.38	105.68	105.67	105.80	105.00	105.07	105.36	105.04	105.51	105.75	105.81	
28	105.63	105.37	105.66	105.78	105.91	105.19	105.11	105.34	105.98	105.49	105.59	105.48	
29	105.61	105.39	105.71	105.71	105.87	105.31	105.18	105.34	105.94	105.46		105.81	
30	105.53	105.82	105.67	105.70	105.73	105.40	105.17	105.30	105.99	105.43		105.84	
31		105.61		105.78	105.78		105.07		105.01	105.28		105.86	
MEAN	105.60	105.53	105.47	105.77	105.77	105.30	105.27	105.19	105.20	105.27	105.68	105.88	
MAX	105.91	105.82	105.81	106.00	105.91	105.98	105.66	105.36	105.99	105.51	105.97	106.07	106.07
MIN	105.27	105.33	104.96	105.58	105.50	104.91	105.03	104.98	105.01	104.98	105.43	105.48	104.91

ANNUAL MAX MOMENTARY GAGE HEIGHT 106.23 M (MSL), AT 10.00 HOURS, ON MAR 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 104.00 M (MSL), RIVER BED 103.79 M (MSL)
LEFT BANK ELEVATION 109.79 M (MSL)
RIGHT BANK ELEVATION 115.90 M (MSL), DRAINAGE AREA 38862 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	340.0	176.0	137.0	272.0	292.0	324.0	185.0	65.0	113.0	48.0	232.0	364.0	
2	336.0	173.0	268.0	232.0	200.0	356.0	212.0	80.0	80.0	46.0	204.0	376.0	
3	364.0	197.0	244.0	264.0	216.0	364.0	264.0	95.0	77.0	59.0	236.0	380.0	
4	332.0	220.0	149.0	372.0	328.0	388.0	212.0	122.0	95.0	89.0	236.0	396.0	
5	182.0	220.0	134.0	336.0	296.0	392.0	244.0	65.0	65.0	149.0	244.0	392.0	
6	155.0	228.0	324.0	296.0	304.0	320.0	240.0	59.0	77.0	119.0	220.0	364.0	
7	167.0	212.0	220.0	232.0	296.0	185.0	224.0	46.0	77.0	119.0	179.0	244.0	
8	320.0	185.0	146.0	292.0	232.0	185.0	194.0	46.0	77.0	134.0	276.0	380.0	
9	280.0	176.0	143.0	272.0	216.0	149.0	134.0	110.0	74.0	68.0	288.0	380.0	
10	244.0	204.0	173.0	360.0	332.0	119.0	113.0	110.0	95.0	71.0	252.0	436.4	
11	268.0	276.0	131.0	360.0	328.0	122.0	95.0	104.0	95.0	104.0	220.0	436.4	
12	208.0	260.0	107.0	296.0	320.0	101.0	101.0	101.0	101.0	116.0	252.0	410.4	
13	197.0	284.0	188.0	280.0	232.0	119.0	116.0	104.0	86.0	107.0	272.0	396.0	
14	152.0	292.0	224.0	300.0	336.0	146.0	152.0	89.0	95.0	110.0	264.0	304.0	
15	185.0	176.0	140.0	296.0	328.0	140.0	122.0	53.0	110.0	113.0	388.0	415.6	
16	220.0	208.0	116.0	284.0	340.0	83.0	143.0	116.0	143.0	104.0	372.0	388.0	
17	276.0	149.0	44.0	336.0	364.0	74.0	128.0	149.0	137.0	104.0	296.0	400.0	
18	240.0	224.0	42.0	388.0	328.0	42.0	107.0	113.0	131.0	191.0	300.0	368.0	
19	252.0	208.0	197.0	332.0	336.0	34.0	110.0	158.0	128.0	197.0	288.0	380.0	
20	272.0	240.0	320.0	300.0	328.0	32.0	116.0	110.0	74.0	149.0	244.0	384.0	
21	288.0	232.0	232.0	280.0	336.0	48.0	89.0	95.0	59.0	140.0	244.0	340.0	
22	264.0	224.0	191.0	360.0	328.0	68.0	74.0	98.0	71.0	197.0	284.0	292.0	
23	236.0	292.0	236.0	320.0	288.0	48.0	74.0	119.0	68.0	152.0	264.0	308.0	
24	208.0	240.0	200.0	380.0	312.0	68.0	59.0	101.0	65.0	116.0	320.0	308.0	
25	216.0	176.0	224.0	400.0	328.0	62.0	65.0	122.0	53.0	182.0	332.0	312.0	
26	131.0	161.0	324.0	276.0	332.0	62.0	101.0	149.0	62.0	204.0	332.0	292.0	
27	224.0	164.0	272.0	268.0	320.0	50.0	71.0	158.0	62.0	204.0	300.0	324.0	
28	252.0	161.0	264.0	312.0	364.0	107.0	83.0	152.0	392.0	197.0	236.0	194.0	
29	244.0	167.0	284.0	284.0	348.0	143.0	104.0	152.0	376.0	188.0		324.0	
30	212.0	328.0	268.0	280.0	292.0	170.0	101.0	140.0	396.0	179.0		336.0	
31		244.0		312.0	312.0		71.0		53.0	134.0		344.0	
TOTAL	7265.0	6697.0	5942.0	9572.0	9512.0	4501.0	4104.0	3181.0	3587.0	4090.0	7575.0	10968.8	76994.8 CMSDAY
MEAN	242.2	216.0	198.1	308.8	306.8	150.0	132.4	106.0	115.7	131.9	270.5	353.8	210.9 CMS
MAX	364.0	328.0	324.0	400.0	364.0	392.0	264.0	158.0	396.0	204.0	388.0	436.4	436.4 CMS
MIN	131.0	149.0	42.0	232.0	200.0	32.0	59.0	46.0	53.0	46.0	179.0	194.0	32.0 CMS
RUNOFF	627.70	578.62	513.39	827.02	821.84	388.89	354.59	274.84	309.92	353.38	654.48	947.70	6652.35 MCM

MOMENTARY PEAK 519.60 CMS, AT 106.23 M (MSL), AT 10.00 HOURS, ON MAR 11, 1982

RUNOFF YIELD 5.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

MAE TAENG RIVER AT MAE TAENG, CHIANG MAI (P.4A)

LOCATION	LAT. 19°-07'-15" N., LONG. 98°-56'-51" E., ON RIGHT BANK AT THE BRIDGE OF CHIANG MAI-FANG HIGHWAY, AMPHOE MAE TAENG, CHIANG MAI.
DRAINAGE AREA	1,902 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+333.745 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GATE OF AMPHOE MAE TAENG OFFICE.
ELEVATION	+338.736 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1955 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1955-1960, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1955-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 23,700 HECTARES AT MAE FAEK WIER. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

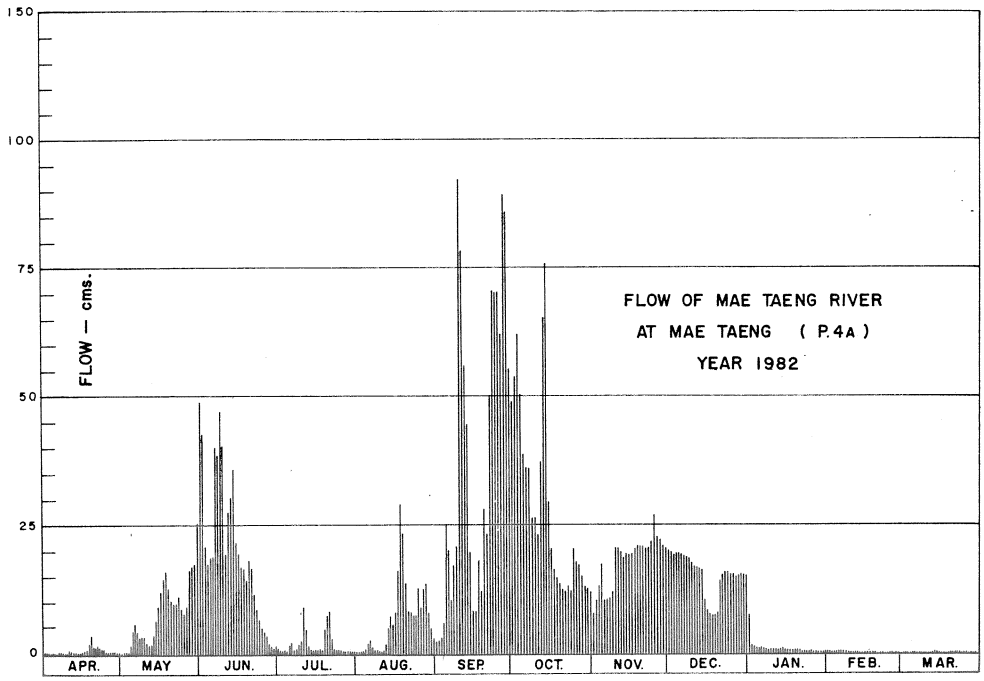
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	334.70	334.69	336.44	334.83	334.73	334.95	336.43	335.37	335.71	335.30	334.71	334.71	
2	334.70	334.68	336.22	334.74	334.73	334.95	336.54	335.25	335.70	334.89	334.71	334.71	
3	334.70	334.67	335.73	334.77	334.73	335.05	336.70	335.35	335.69	334.86	334.72	334.70	
4	334.69	334.67	335.62	334.76	334.74	335.25	336.48	335.54	335.70	334.84	334.72	334.70	
5	334.73	335.05	335.68	334.76	334.88	335.87	336.22	335.62	335.70	334.83	334.72	334.70	
6	334.70	335.17	335.68	334.94	334.99	335.61	336.16	335.37	335.70	334.84	334.71	334.69	
7	334.89	335.12	336.25	334.80	334.78	335.37	336.14	335.38	335.68	334.83	334.71	334.69	
8	334.72	335.03	336.19	334.79	334.74	335.66	336.01	335.40	335.67	334.82	334.71	334.69	
9	334.73	335.02	336.40	334.90	334.71	335.81	335.89	335.47	335.66	334.81	334.70	334.69	
10	334.73	335.03	335.90	335.07	334.71	337.11	335.90	335.73	335.65	334.81	334.70	334.69	
11	334.81	334.92	335.70	335.31	334.71	336.85	335.80	335.73	335.61	334.80	334.69	334.68	
12	334.73	334.89	335.95	335.09	334.86	336.53	336.39	335.71	335.61	334.79	334.69	334.68	
13	334.72	334.93	336.05	334.89	335.13	336.18	336.88	335.67	335.59	334.79	334.69	334.68	
14	334.71	335.13	336.15	334.81	335.25	335.82	336.44	335.69	335.59	334.78	334.69	334.98	
15	334.72	335.29	335.74	334.74	335.15	335.44	335.98	335.71	335.40	334.78	334.69	334.70	
16	334.76	335.42	335.70	334.77	335.30	335.28	335.72	335.68	335.28	334.76	334.69	334.69	
17	334.80	335.51	335.60	334.77	335.70	335.30	335.62	335.71	335.25	334.74	334.70	334.69	
18	334.77	335.58	335.59	334.74	335.97	335.66	335.56	335.73	335.25	334.74	334.70	334.69	
19	335.06	335.47	335.53	335.11	335.77	335.63	335.50	335.73	335.24	334.75	334.70	334.68	
20	334.87	335.41	335.66	335.23	335.50	335.94	335.48	335.73	335.29	334.74	334.70	334.68	
21	334.89	335.35	335.62	335.29	335.29	335.80	335.44	335.73	335.52	334.75	334.70	334.68	
22	334.92	335.33	335.43	335.04	335.28	336.55	335.44	335.72	335.56	334.74	334.70	334.68	
23	334.83	335.40	335.30	334.82	335.24	336.82	335.48	335.74	335.58	334.73	334.70	334.67	
24	334.77	335.31	335.20	334.81	335.24	336.81	335.42	335.76	335.58	334.73	334.70	334.67	
25	334.72	335.28	335.04	334.77	335.47	336.81	335.73	335.91	335.56	334.73	334.71	334.67	
26	334.71	335.25	335.07	334.77	335.32	336.70	335.63	335.80	335.56	334.72	334.71	334.67	
27	334.70	335.39	335.02	334.74	335.47	337.07	335.63	335.78	335.55	334.72	334.72	334.67	
28	334.70	335.60	334.89	334.70	335.50	337.03	335.55	335.77	335.56	334.72	334.72	334.66	
29	334.69	335.64	334.83	334.73	335.25	336.75	335.48	335.74	335.56	334.72		334.66	
30	334.69	335.63	334.89	334.73	335.12	336.51	335.48	335.72	335.56	334.73		334.66	
31		335.89		334.73	335.00		335.44		335.56	334.73		334.66	
MEAN	334.76	335.22	335.64	334.87	335.14	336.04	335.89	335.64	335.55	334.79	334.70	334.69	
MAX	335.06	335.89	336.44	335.31	335.97	337.11	336.88	335.91	335.71	335.30	334.72	334.98	337.11
MIN	334.69	334.67	334.83	334.70	334.71	334.95	335.42	335.25	335.24	334.72	334.69	334.66	334.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 337.92 M (MSL), AT 18.00 HOURS, ON SEP 27, 1982

ZERO GAGE AT BOTTOM ELEVATION 333.74 M (MSL), RIVER BED 334.49 M (MSL)

LEFT BANK ELEVATION 340.05 M (MSL)

RIGHT BANK ELEVATION 340.06 M (MSL), DRAINAGE AREA 1902 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.27	49.00	1.14	0.48	2.35	48.50	10.25	19.85	8.50	0.36	0.36	
2	0.30	0.24	38.80	0.54	0.48	2.35	54.00	7.50	19.50	1.62	0.36	0.36	
3	0.30	0.21	20.55	0.72	0.48	3.75	62.00	9.75	19.20	1.38	0.42	0.30	
4	0.27	0.21	17.10	0.66	0.54	7.50	51.00	14.70	19.50	1.22	0.42	0.30	
5	0.48	3.75	18.90	0.66	1.54	25.45	38.80	17.10	19.50	1.14	0.42	0.30	
6	0.30	5.90	18.90	2.22	2.87	16.80	36.40	10.25	19.50	1.22	0.36	0.27	
7	1.62	4.90	40.00	0.90	0.78	10.25	35.60	10.50	18.90	1.14	0.36	0.27	
8	0.42	3.45	37.60	0.84	0.54	18.30	30.40	11.00	18.60	1.06	0.36	0.27	
9	0.48	3.30	47.00	1.70	0.36	23.35	26.15	12.75	18.30	0.98	0.30	0.27	
10	0.48	3.45	26.50	4.05	0.36	92.07	26.50	20.55	18.00	0.98	0.30	0.27	
11	0.98	1.96	19.50	8.75	0.36	73.00	23.00	20.55	16.80	0.90	0.27	0.24	
12	0.48	1.62	28.25	4.35	1.38	53.50	46.50	19.85	16.80	0.84	0.27	0.24	
13	0.42	2.09	32.00	1.62	5.10	37.20	75.20	18.60	16.20	0.84	0.27	0.24	
14	0.36	5.10	36.00	0.98	7.50	23.70	49.00	19.20	16.20	0.78	0.27	2.74	
15	0.42	8.30	20.90	0.54	5.50	12.00	29.30	19.85	11.00	0.78	0.27	0.30	
16	0.66	11.50	19.50	0.72	8.50	8.10	20.20	18.90	8.10	0.66	0.27	0.27	
17	0.90	13.80	16.50	0.72	19.50	8.50	17.10	19.85	7.50	0.54	0.30	0.27	
18	0.72	15.90	16.20	0.54	28.95	18.30	15.30	20.55	7.50	0.54	0.30	0.27	
19	3.90	12.75	14.40	4.70	21.95	17.40	13.50	20.55	7.30	0.60	0.30	0.24	
20	1.46	11.25	18.30	7.10	13.50	27.90	13.00	20.55	8.30	0.54	0.30	0.24	
21	1.62	9.75	17.10	8.30	8.30	23.00	12.00	20.55	14.10	0.60	0.30	0.24	
22	1.96	9.25	11.75	3.60	8.10	54.50	12.00	20.20	15.30	0.54	0.30	0.24	
23	1.14	11.00	8.50	1.06	7.30	70.80	13.00	20.90	15.90	0.48	0.30	0.21	
24	0.72	8.75	6.50	0.98	7.30	70.07	11.50	21.60	15.90	0.48	0.30	0.21	
25	0.42	8.10	3.60	0.72	12.75	70.07	20.55	26.85	15.30	0.48	0.36	0.21	
26	0.36	7.50	4.05	0.72	9.00	62.00	17.40	23.00	15.30	0.42	0.36	0.21	
27	0.30	10.75	3.30	0.54	12.75	89.13	17.40	22.30	15.00	0.42	0.42	0.21	
28	0.30	16.50	1.62	0.30	13.50	86.20	15.00	21.95	15.30	0.42	0.42	0.18	
29	0.27	17.70	1.14	0.48	7.50	65.67	13.00	20.90	15.30	0.42		0.18	
30	0.27	17.40	1.62	0.48	4.90	52.50	13.00	20.20	15.30	0.48		0.18	
31		26.15		0.48	3.00		12.00		15.30	0.48		0.18	
TOTAL	22.61	252.80	595.08	61.11	215.07	1125.71	868.30	541.25	474.55	31.48	9.24	10.27	4207.47 CMSDAY
MEAN	0.75	8.15	19.84	1.97	6.94	37.52	28.01	18.04	15.31	1.02	0.33	0.33	11.53 CMS
MAX	3.90	26.15	49.00	8.75	28.95	92.07	75.20	26.85	19.85	8.50	0.42	2.74	92.07 CMS
MIN	0.27	0.21	1.14	0.30	0.36	2.35	11.50	7.50	7.30	0.42	0.27	0.18	0.18 CMS
RUNOFF	1.954	21.842	51.415	5.280	18.582	97.261	75.021	46.764	41.001	2.720	0.798	0.887	363.525 MCM

MOMENTARY PEAK 185.60 CMS, AT 337.92 M (MSL), AT 18.00 HOURS, ON SEP 27, 1982

RUNOFF YIELD 6.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 97.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

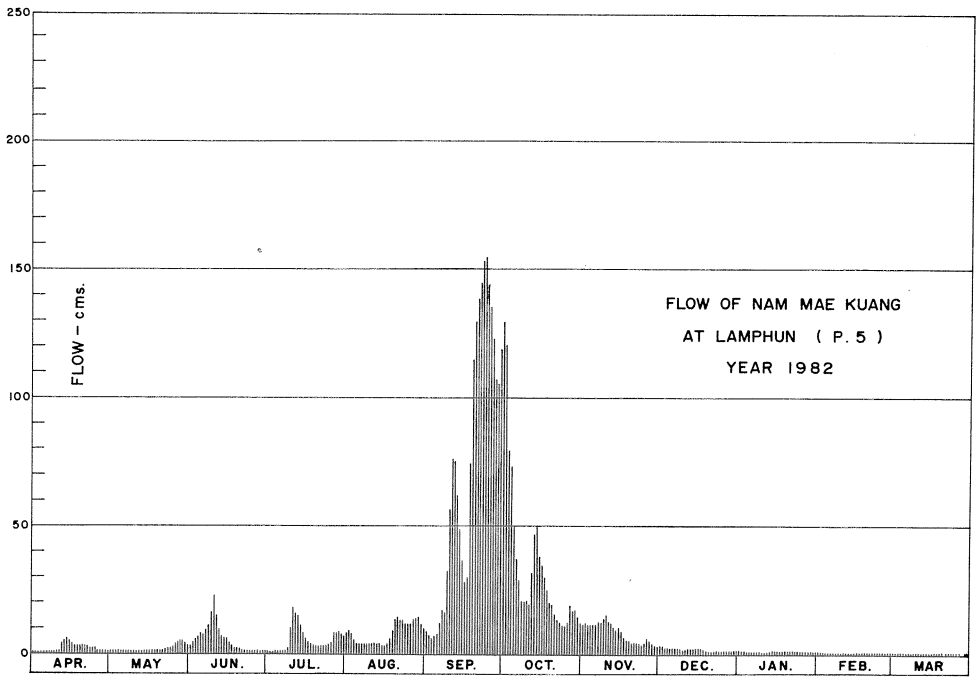
NAM MAE KUANG AT LAMPHUN, LAMPHUN (P.5)

LOCATION	LAT. 18°-34'-32" N., LONG. 99°-00'-44" E., ON RIGHT BANK ABOUT 10 METERS DOWNSTREAM FROM THA SING PHITAK BRIDGE, AMPHOE MUANG, LAMPHUN.
DRAINAGE AREA	1,569 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+288.50 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+295.680 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1951 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. UPSTREAM STATE DIVERSION FOR IRRIGATION ABOUT 9,600 HECTARES AT MAE KUANG WEIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	289.14	289.24	289.49	289.23	289.80	289.84	293.13	289.99	289.51	289.21	289.30	289.13	
2	289.14	289.25	289.58	289.19	289.83	289.78	292.85	290.02	289.49	289.20	289.26	289.11	
3	289.19	289.22	289.67	289.15	289.79	289.68	292.20	289.98	289.43	289.20	289.31	289.12	
4	289.15	289.22	289.76	289.21	289.59	289.72	291.93	289.95	289.38	289.18	289.30	289.11	
5	289.16	289.25	289.82	289.17	289.59	289.73	291.52	289.95	289.42	289.22	289.19	289.08	
6	289.16	289.25	289.74	289.22	289.57	290.01	291.04	289.99	289.43	289.20	289.19	289.11	
7	289.16	289.27	289.87	289.23	289.58	290.24	290.71	290.02	289.46	289.21	289.17	289.11	
8	289.16	289.29	289.98	289.27	289.57	290.23	290.48	290.03	289.44	289.19	289.13	289.11	
9	289.16	289.33	290.22	289.44	289.55	290.90	290.36	290.08	289.44	289.20	289.13	289.10	
10	289.13	289.31	290.46	289.86	289.56	291.60	290.40	290.16	289.33	289.18	289.15	289.10	
11	289.25	289.27	290.10	290.28	289.55	292.00	290.35	290.04	289.37	289.18	289.12	289.10	
12	289.54	289.23	289.94	290.19	289.54	291.98	290.77	290.02	289.37	289.17	289.16	289.09	
13	289.62	289.24	289.76	290.12	289.55	291.67	291.21	289.90	289.36	289.19	289.15	289.09	
14	289.71	289.23	289.71	289.96	289.55	291.29	291.32	289.88	289.41	289.21	289.17	289.07	
15	289.64	289.22	289.69	289.81	289.53	290.91	291.07	289.93	289.37	289.23	289.17	289.05	
16	289.57	289.22	289.50	289.65	289.52	290.66	290.91	289.81	289.37	289.23	289.18	289.06	
17	289.52	289.25	289.47	289.55	289.57	290.75	290.74	289.71	289.37	289.24	289.18	289.06	
18	289.48	289.28	289.44	289.50	289.66	291.83	290.60	289.65	289.34	289.23	289.14	289.07	
19	289.51	289.28	289.41	289.46	289.80	292.83	290.39	289.64	289.22	289.26	289.11	289.05	
20	289.50	289.31	289.34	289.45	290.05	293.15	290.32	289.56	289.24	289.26	289.13	289.04	
21	289.49	289.33	289.33	289.45	290.10	293.27	290.17	289.57	289.21	289.26	289.15	289.00	
22	289.46	289.39	289.25	289.48	290.09	293.47	290.08	289.55	289.27	289.28	289.13	289.01	
23	289.43	289.37	289.24	289.53	290.05	293.61	290.02	289.54	289.27	289.26	289.12	289.07	
24	289.38	289.37	289.26	289.53	289.99	293.63	289.95	289.51	289.24	289.26	289.16	289.05	
25	289.34	289.38	289.26	289.54	290.02	293.44	289.91	289.52	289.22	289.25	289.12	289.04	
26	289.31	289.56	289.23	289.57	290.04	293.26	290.06	289.66	289.25	289.30	289.13	289.04	
27	289.29	289.63	289.25	289.78	290.07	293.02	290.33	289.58	289.25	289.32	289.13	289.01	
28	289.25	289.62	289.23	289.79	290.10	292.68	290.27	289.58	289.23	289.32	289.15	289.01	
29	289.25	289.60	289.22	289.83	290.10	292.64	290.25	289.53	289.29	289.32		289.00	
30	289.24	289.57	289.22	289.75	290.03	292.94	290.11	289.52	289.29	289.33		289.01	
31		289.50		289.74	289.94		290.08		289.27	289.32		289.03	
MEAN	289.34	289.34	289.58	289.58	289.78	291.69	290.76	289.80	289.34	289.24	289.17	289.07	
MAX	289.71	289.63	290.46	290.28	290.10	293.63	293.13	290.16	289.51	289.33	289.31	289.13	293.63
MIN	289.13	289.22	289.22	289.15	289.52	289.68	289.91	289.51	289.21	289.17	289.11	289.00	289.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 294.64 M (MSL), AT 6.00 HOURS, ON SEP 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 288.50 M (MSL), RIVER BED 288.40 M (MSL)
LEFT BANK ELEVATION 295.88 M (MSL)
RIGHT BANK ELEVATION 295.90 M (MSL), DRAINAGE AREA 1569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	1.30	3.40	1.23	8.50	9.20	129.00	11.82	3.65	1.07	1.75	0.65	
2	0.70	1.37	4.70	0.95	9.02	8.15	115.00	12.40	3.40	1.00	1.45	0.55	
3	0.95	1.15	6.23	0.75	8.33	6.40	85.50	11.65	2.80	1.00	1.82	0.60	
4	0.75	1.15	7.80	1.07	4.85	7.10	73.35	11.13	2.35	0.90	1.75	0.55	
5	0.80	1.37	8.85	0.85	4.85	7.28	56.30	11.13	2.70	1.15	0.95	0.40	
6	0.80	1.37	7.45	1.15	4.55	12.20	39.70	11.82	2.80	1.00	0.95	0.55	
7	0.80	1.52	9.72	1.23	4.70	17.00	29.80	12.40	3.10	1.07	0.85	0.55	
8	0.80	1.68	11.65	1.52	4.55	16.75	23.00	12.60	2.90	0.95	0.65	0.55	
9	0.80	1.97	16.50	2.90	4.25	35.50	20.00	13.60	2.90	1.00	0.65	0.50	
10	0.65	1.82	22.50	9.55	4.40	59.50	21.00	15.20	1.97	0.90	0.75	0.50	
11	1.37	1.52	14.00	18.00	4.25	76.50	19.75	12.80	2.27	0.90	0.60	0.50	
12	4.10	1.23	10.95	15.80	4.10	75.60	31.60	12.40	2.27	0.85	0.80	0.45	
13	5.35	1.30	7.80	14.40	4.25	62.30	45.35	10.25	2.20	0.95	0.75	0.45	
14	6.92	1.23	6.92	11.30	4.25	48.15	49.20	9.90	2.60	1.07	0.85	0.35	
15	5.70	1.15	6.57	8.67	3.95	35.80	40.60	10.77	2.27	1.23	0.85	0.25	
16	4.55	1.15	3.50	5.87	3.80	28.30	35.80	8.67	2.27	1.23	0.90	0.30	
17	3.80	1.37	3.20	4.25	4.55	31.00	30.70	6.92	2.27	1.30	0.90	0.30	
18	3.30	1.60	2.90	3.50	6.05	68.85	26.50	5.87	2.05	1.23	0.70	0.35	
19	3.65	1.60	2.60	3.10	8.50	114.00	20.75	5.70	1.15	1.45	0.55	0.25	
20	3.50	1.82	2.05	3.00	13.00	130.00	19.00	4.40	1.30	1.45	0.65	0.20	
21	3.40	1.97	1.97	3.00	14.00	136.00	15.40	4.55	1.07	1.45	0.75	0.00	
22	3.10	2.43	1.37	3.30	13.80	146.00	13.60	4.25	1.52	1.60	0.65	0.05	
23	2.80	2.27	1.30	3.95	13.00	153.00	12.40	4.10	1.52	1.45	0.60	0.35	
24	2.35	2.27	1.45	3.95	11.82	154.00	11.13	3.65	1.30	1.45	0.80	0.25	
25	2.05	2.35	1.45	4.10	12.40	144.50	10.43	3.80	1.15	1.37	0.60	0.20	
26	1.82	4.40	1.23	4.55	12.80	135.50	13.20	6.05	1.37	1.75	0.65	0.20	
27	1.68	5.52	1.37	8.15	13.40	123.50	19.25	4.70	1.37	1.90	0.65	0.05	
28	1.37	5.35	1.23	8.33	14.00	107.10	17.75	4.70	1.23	1.90	0.75	0.05	
29	1.37	5.00	1.15	9.02	14.00	105.30	17.25	3.95	1.68	1.90		0.00	
30	1.30	4.55	1.15	7.62	12.60	119.50	14.20	3.80	1.68	1.97		0.05	
31		3.50		7.45	10.95		13.60		1.52	1.90		0.15	
TOTAL	71.23	68.28	172.96	172.51	257.47	2173.98	1070.11	254.98	64.63	40.34	24.57	10.15	4381.21 CMSDA
MEAN	2.37	2.20	5.77	5.56	8.31	72.47	34.52	8.50	2.08	1.30	0.88	0.33	12.00 CMS
MAX	6.92	5.52	22.50	18.00	14.00	154.00	129.00	15.20	3.65	1.97	1.82	0.65	154.00 CMS
MIN	0.65	1.15	1.15	0.75	3.80	6.40	10.43	3.65	1.07	0.85	0.55	0.00	0.00 CMS
RUNOFF	6.154	5.899	14.944	14.905	22.245	187.832	92.458	22.030	5.584	3.485	2.123	0.877	378.537 MCM

MOMENTARY PEAK 208.70 CMS, AT 294.64 M (MSL), AT 6.00 HOURS, ON SEP 24, 1982

RUNOFF YIELD 7.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 133.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

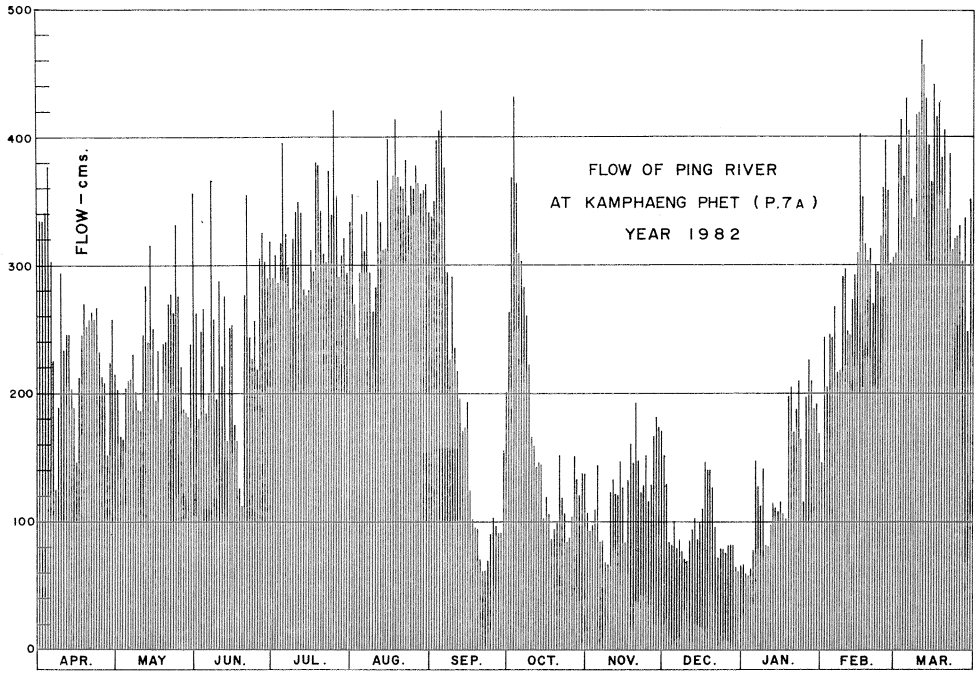
PING RIVER AT KAMPHAENG PHET, KAMPHAENG PHET (P.7A)

LOCATION	LAT. 16°-28′-38″ N., LONG. 99°-31′-06″ E., ON RIGHT BANK ABOUT 100 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY AT BAN NAKHON CHUM, AMPHOE MUANG, KAMPHAENG PHET.
DRAINAGE AREA	42,700 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+72.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+77.717 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1960 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1960-1961, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1960-1961, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE RIVER BED A LITTLE BIT CHANGED.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW COMPLETELY REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION ABOUT 40,300 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 45 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (M2L), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	74.15	73.76	73.89	74.02	74.21	74.16	73.88	73.44	73.61	73.31	73.58	74.08	
2	74.15	73.65	73.69	74.07	74.01	74.20	74.11	73.39	73.51	73.27	73.88	74.32	
3	74.17	73.64	73.97	73.94	73.88	74.32	74.42	73.42	73.37	73.25	73.77	74.37	
4	74.27	73.76	73.94	74.09	74.04	74.35	74.26	73.47	73.35	73.29	73.89	74.25	
5	74.09	73.78	73.71	74.32	74.17	74.39	74.08	73.57	73.42	73.36	73.88	74.42	
6	73.78	73.78	73.75	74.15	74.08	74.32	74.07	73.36	73.34	73.58	73.95	74.37	
7	73.51	73.84	74.24	74.04	74.17	74.14	74.02	73.36	73.37	73.50	73.80	74.21	
8	73.71	73.78	73.89	73.95	74.07	73.83	73.93	73.30	73.34	73.47	73.81	74.16	
9	74.03	73.72	73.74	74.09	73.94	74.02	73.82	73.29	73.31	73.56	74.02	74.39	
10	73.85	73.71	74.01	74.16	74.00	73.88	73.65	73.49	73.30	73.35	74.04	74.39	
11	73.89	73.85	73.79	74.19	74.24	73.80	73.62	73.53	73.37	73.34	73.91	74.54	
12	73.89	74.00	73.68	74.17	74.20	73.74	73.57	73.50	73.41	73.42	73.89	74.49	
13	73.77	73.87	73.63	74.00	74.08	73.66	73.58	73.49	73.43	73.48	73.95	74.41	
14	73.72	74.09	73.90	73.98	74.08	73.67	73.57	73.58	73.37	73.45	74.03	74.33	
15	73.58	73.92	73.91	73.99	74.33	73.73	73.43	73.51	73.41	73.45	74.08	74.24	
16	73.74	73.74	73.68	74.08	74.22	73.53	73.49	73.36	73.46	73.48	74.34	74.45	
17	73.88	73.85	73.64	74.03	74.22	73.43	73.44	73.54	73.58	73.44	74.22	74.38	
18	73.96	73.69	73.51	74.28	74.37	73.40	73.37	73.63	73.56	73.43	74.12	74.41	
19	73.90	73.87	73.47	74.27	74.25	73.40	73.40	73.58	73.56	73.74	74.06	74.29	
20	73.92	73.87	73.93	74.18	74.23	73.31	73.42	73.73	73.53	73.77	74.09	74.35	
21	73.94	73.95	74.21	74.08	74.22	73.27	73.60	73.59	73.40	73.66	73.96	74.18	
22	73.92	73.98	73.88	74.05	74.28	73.27	73.49	73.50	73.31	73.73	74.05	74.30	
23	73.95	73.94	73.83	74.26	74.16	73.28	73.45	73.52	73.34	73.78	74.04	74.08	
24	73.85	74.14	73.92	74.16	74.23	73.38	73.36	73.60	73.34	73.61	74.09	74.11	
25	73.80	73.92	73.81	74.39	74.22	73.43	73.37	73.48	73.33	73.48	74.22	74.12	
26	73.78	73.81	74.07	74.31	74.27	73.41	73.45	73.52	73.35	73.76	74.27	74.14	
27	73.60	73.72	74.12	74.02	74.24	73.39	73.59	73.64	73.35	73.83	74.21	74.06	
28	73.79	73.71	74.06	74.06	74.21	73.39	73.51	73.70	73.35	73.79	74.05	74.16	
29	73.92	73.70	74.02	74.11	74.22	73.60	73.49	73.67	73.29	73.72		73.90	
30	73.80	73.83	74.10	74.03	74.23	73.72	73.55	73.67	73.27	73.73		74.17	
31		74.21		74.07	74.17		73.55		73.29	73.70		74.27	
MEAN	73.88	73.84	73.87	74.11	74.17	73.71	73.66	73.51	73.39	73.54	74.01	74.27	
MAX	74.27	74.21	74.24	74.39	74.37	74.39	74.42	73.73	73.61	73.83	74.34	74.54	74.54
MIN	73.51	73.64	73.47	73.94	73.88	73.27	73.36	73.29	73.27	73.25	73.58	73.90	73.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 74.67 M (M2L), AT 24.00 HOURS, ON MAR 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 72.00 M (M2L), RIVER BED 71.46 M (M2L)
LEFT BANK ELEVATION 77.94 M (M2L)
RIGHT BANK ELEVATION 77.60 M (M2L), DRAINAGE AREA 42700 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	335.0	202.4	246.6	290.8	355.6	338.4	243.2	105.2	155.0	70.6	146.0	311.2	
2	335.0	167.0	179.0	307.8	287.4	352.0	321.4	91.4	125.0	60.8	243.2	395.2	
3	341.8	164.0	273.8	263.6	243.2	395.2	431.2	99.6	86.2	56.0	205.8	413.2	
4	377.2	202.4	263.6	314.6	297.6	406.0	373.6	113.6	81.0	65.6	246.6	370.0	
5	314.6	209.2	185.4	395.2	341.8	420.4	311.2	143.0	99.6	83.6	243.2	431.2	
6	209.2	209.2	199.0	335.0	311.2	395.2	307.8	83.6	78.4	146.0	267.0	413.2	
7	125.0	229.6	366.4	297.6	341.8	331.6	290.8	83.6	86.2	122.0	216.0	355.6	
8	185.4	209.2	246.6	267.0	307.8	226.2	260.2	68.0	78.4	113.6	219.4	338.4	
9	294.2	188.8	195.6	314.6	263.6	290.8	222.8	65.6	70.6	140.0	290.8	420.4	
10	233.0	185.4	287.4	338.4	284.0	243.2	167.0	119.2	68.0	81.0	297.6	420.4	
11	246.6	233.0	212.6	348.6	366.4	216.0	158.0	131.0	86.2	78.4	253.4	476.0	
12	246.6	284.0	176.0	341.8	352.0	195.6	143.0	122.0	96.8	99.6	246.6	456.4	
13	205.8	239.8	161.0	284.0	311.2	170.0	146.0	119.2	102.4	116.4	267.0	427.6	
14	188.8	314.6	250.0	277.2	311.2	173.0	143.0	146.0	86.2	108.0	294.2	398.8	
15	146.0	256.8	253.4	280.6	398.8	192.2	102.4	125.0	96.8	108.0	311.2	366.4	
16	195.6	195.6	176.0	311.2	359.2	131.0	119.2	83.6	110.8	116.4	402.4	442.0	
17	243.2	233.0	164.0	294.2	359.2	102.4	105.2	134.0	146.0	105.2	359.2	416.8	
18	270.4	179.0	125.0	380.8	413.2	94.0	86.2	161.0	140.0	102.4	324.8	427.6	
19	250.0	239.8	113.6	377.2	370.0	94.0	94.0	146.0	140.0	195.6	304.4	384.4	
20	256.8	239.8	260.2	345.2	362.8	70.6	99.6	192.2	131.0	205.8	314.6	406.0	
21	263.6	267.0	355.6	311.2	359.2	60.8	152.0	149.0	94.0	170.0	270.4	345.2	
22	256.8	277.2	243.2	301.0	380.8	60.8	119.2	122.0	70.6	192.2	301.0	388.0	
23	267.0	263.6	226.2	373.6	338.4	63.2	108.0	128.0	78.4	209.2	297.6	311.2	
24	233.0	331.6	256.8	338.4	362.8	88.8	83.6	152.0	78.4	155.0	314.6	321.4	
25	216.0	256.8	219.4	420.4	359.2	102.4	86.2	116.4	75.8	116.4	359.2	324.8	
26	209.2	219.4	307.8	391.6	377.2	96.8	108.0	128.0	81.0	202.4	377.2	331.6	
27	152.0	188.8	324.8	290.8	366.4	91.4	149.0	164.0	81.0	226.2	355.6	304.4	
28	212.6	185.4	304.4	304.4	355.6	91.4	125.0	182.0	81.0	212.6	301.0	338.4	
29	256.8	182.0	290.8	321.4	359.2	152.0	119.2	173.0	65.6	188.8		250.0	
30	216.0	226.2	318.0	294.2	362.8	188.8	137.0	173.0	60.8	192.2		341.8	
31		355.6		307.8	341.8		137.0		65.6	182.0		377.2	
TOTAL	7283.2	7136.2	7182.2	10020.2	10601.4	5834.2	5450.0	3820.2	2896.8	4222.0	8030.0	11704.8	84181.2 CMSDAY
MEAN	242.8	230.2	239.4	323.2	342.0	194.5	175.8	127.3	93.4	136.2	286.8	377.6	230.6 CMS
MAX	377.2	355.6	366.4	420.4	413.2	420.4	431.2	192.2	155.0	226.2	402.4	476.0	476.0 CMS
MIN	125.0	164.0	113.6	263.6	243.2	60.8	83.6	65.6	60.8	56.0	146.0	250.0	56.0 CMS
RUNOFF	629.27	616.57	620.54	865.75	915.96	504.07	470.88	330.07	250.28	364.78	693.79	1011.29	7273.26 MCM

MOMENTARY PEAK 528.00 CMS, AT 74.67 M (M2L), AT 24.00 HOURS, ON MAR 11, 1982

RUNOFF YIELD 5.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 12.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

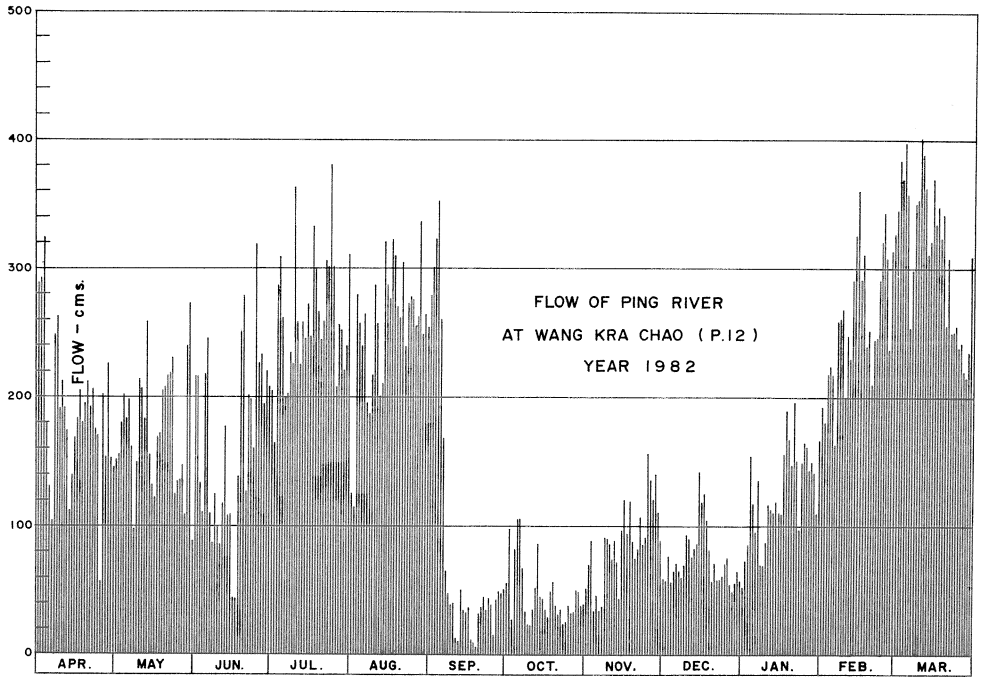
PING RIVER AT WANG KRA CHAO, TAK (P.12)

LOCATION	LAT. 17°-14'-30" N., LONG. 99°-00'-45" E., ON RIGHT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM PHUMIPHOL DAM RESERVOIR, AT WANG KRA CHAO, AMPHOE SAM NGAO, TAK.
DRAINAGE AREA	26,396 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+133.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 25 METERS NORTH OF AUTOMATIC GAGE BUILDING.
ELEVATION	+143.825 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1952 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1952 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1952 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION ABOUT 28,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 43 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.26	134.45	134.87	134.80	134.30	135.21	133.61	133.60	133.65	133.57	134.73	135.53	
2	135.29	134.48	134.87	134.54	134.18	135.36	134.02	133.75	133.62	133.79	134.65	135.74	
3	135.44	134.65	134.27	135.19	135.21	135.45	133.24	133.94	133.82	133.92	134.88	135.67	
4	134.70	134.79	134.13	135.36	135.11	135.58	133.85	133.33	133.59	134.47	134.92	135.80	
5	134.28	134.67	134.86	135.19	135.01	135.22	134.09	133.50	133.72	134.21	134.89	135.60	
6	134.08	134.75	135.04	134.77	135.14	134.78	134.09	133.35	133.77	134.01	134.47	135.09	
7	135.05	134.55	134.13	134.79	134.75	133.75	133.80	133.39	133.71	134.34	135.11	135.33	
8	135.13	134.03	133.93	134.98	134.69	133.57	133.46	133.97	133.65	133.75	135.12	135.57	
9	134.72	134.48	134.25	134.93	134.87	133.41	133.28	133.95	133.75	133.75	135.16	135.59	
10	134.85	134.87	134.04	135.63	135.25	133.43	133.16	133.91	133.99	133.96	134.77	135.82	
11	134.72	134.81	133.90	135.13	135.14	133.01	133.38	133.81	133.96	134.19	135.06	135.75	
12	134.59	134.67	134.27	134.92	134.77	132.94	133.58	133.94	133.81	134.14	134.95	135.62	
13	134.15	135.11	134.63	135.11	134.84	133.53	133.91	133.80	133.86	134.14	135.22	135.37	
14	134.38	134.50	134.13	135.04	135.42	133.36	133.48	133.46	133.95	134.20	135.40	135.44	
15	134.60	134.38	134.14	135.18	135.26	133.33	133.47	134.05	134.39	134.14	135.62	135.67	
16	134.68	134.23	133.47	135.05	135.20	133.39	133.36	134.20	134.20	134.13	135.27	135.49	
17	134.81	134.56	133.46	135.48	135.43	132.98	133.29	133.99	134.25	134.45	135.37	135.56	
18	134.65	134.58	134.35	135.31	135.36	132.96	133.52	134.20	134.07	134.71	135.00	135.44	
19	134.78	134.80	135.06	135.21	135.18	132.77	133.61	133.95	133.81	134.59	135.08	135.53	
20	134.85	134.80	135.21	135.03	135.13	133.32	133.41	133.81	133.63	134.42	134.84	135.10	
21	134.73	134.87	134.28	135.11	135.34	133.39	133.29	133.88	133.76	134.75	135.03	135.36	
22	134.82	134.89	134.78	135.35	135.00	133.49	133.36	134.10	133.64	134.36	135.04	135.07	
23	134.63	134.96	134.76	135.32	135.17	133.37	133.15	133.91	133.64	134.03	135.27	135.07	
24	134.57	134.26	134.51	135.72	135.21	133.48	133.18	133.97	133.66	134.40	135.40	135.10	
25	133.62	134.33	135.41	135.38	135.20	133.39	133.42	134.48	133.74	134.55	135.54	135.00	
26	134.79	134.33	134.93	134.82	135.10	133.04	133.32	134.38	133.81	134.53	135.41	135.03	
27	134.46	134.42	134.97	135.10	135.14	133.48	133.32	134.24	133.60	134.39	135.00	134.90	
28	134.93	134.12	134.74	135.08	135.50	133.53	133.53	134.37	133.52	134.44	135.41	134.87	
29	134.50	135.00	134.90	134.90	135.06	133.52	133.52	134.20	133.60	134.37		135.04	
30	134.38	135.18	134.84	135.02	135.16	133.54	133.39	133.94	133.70	134.13		135.37	
31		133.93		135.37	135.09		133.39		133.64	134.61		134.93	
MEAN	134.68	134.60	134.50	135.12	135.07	133.72	133.50	133.91	133.79	134.24	135.09	135.37	
MAX	135.44	135.18	135.41	135.72	135.50	135.58	134.09	134.48	134.39	134.75	135.62	135.82	135.82
MIN	133.62	133.93	133.46	134.54	134.18	132.77	133.15	133.33	133.52	133.57	134.47	134.87	132.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 136.28 M (MSL), AT 21.00 HOURS, ON FEB 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 133.00 M (MSL), RIVER BED 131.34 M (MSL)
LEFT BANK ELEVATION 153.88 M (MSL)
RIGHT BANK ELEVATION 147.12 M (MSL), DRAINAGE AREA 26396 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	288.00	151.00	215.20	204.00	130.00	278.00	55.20	54.33	58.67	51.73	192.80	342.00	
2	294.00	155.20	215.20	164.00	115.60	308.00	96.40	68.00	56.07	72.00	180.50	384.80	
3	324.00	180.50	126.40	274.00	278.00	326.00	26.40	87.40	75.00	85.20	216.80	370.00	
4	188.00	202.40	109.60	308.00	258.00	352.00	78.00	32.10	53.47	153.80	223.60	398.00	
5	127.60	183.50	213.60	274.00	239.80	280.00	104.80	45.67	65.00	119.20	218.40	356.00	
6	103.60	196.00	245.20	199.20	264.00	200.80	104.80	33.50	70.00	95.20	153.80	254.20	
7	247.00	165.50	109.60	202.40	196.00	68.00	73.00	36.30	64.00	135.60	258.00	302.00	
8	262.00	97.60	86.30	234.40	186.50	51.73	42.20	90.70	58.67	68.00	260.00	350.00	
9	191.20	155.20	124.00	225.40	215.20	37.87	28.80	88.50	68.00	68.00	268.00	354.00	
10	212.00	215.20	98.80	362.00	286.00	39.60	21.60	84.10	92.90	89.60	199.20	402.40	
11	191.20	205.60	83.00	262.00	264.00	12.60	35.60	74.00	89.60	116.80	248.80	387.00	
12	171.50	183.50	126.40	223.60	199.20	9.60	52.60	87.40	74.00	110.80	229.00	360.00	
13	112.00	258.00	177.50	258.00	210.40	48.27	84.10	73.00	79.00	110.80	280.00	310.00	
14	141.20	158.00	109.60	245.20	320.00	34.20	43.93	42.20	88.50	118.00	316.00	324.00	
15	173.00	141.20	110.80	272.00	288.00	32.10	43.07	100.00	142.60	110.80	360.00	370.00	
16	185.00	121.60	43.07	247.00	276.00	36.30	34.20	118.00	118.00	109.60	290.00	334.00	
17	205.60	167.00	42.20	332.00	322.00	11.20	29.40	92.90	124.00	151.00	310.00	348.00	
18	180.50	170.00	137.00	298.00	308.00	10.40	47.40	118.00	102.40	189.60	238.00	324.00	
19	200.80	204.00	248.80	278.00	272.00	3.40	55.20	88.50	74.00	171.50	252.40	342.00	
20	212.00	204.00	278.00	243.40	262.00	31.40	37.87	74.00	56.93	146.80	210.40	256.00	
21	192.80	215.20	127.60	258.00	304.00	36.30	29.40	81.00	69.00	196.00	243.40	308.00	
22	207.20	218.40	200.80	306.00	238.00	44.80	34.20	106.00	57.80	138.40	245.20	250.60	
23	177.50	230.80	197.60	300.00	270.00	34.90	21.00	84.10	57.80	97.60	290.00	250.60	
24	168.50	125.20	159.50	380.40	278.00	43.93	22.80	90.70	59.53	144.00	316.00	256.00	
25	56.07	134.20	318.00	312.00	276.00	36.30	38.73	155.20	67.00	165.50	344.00	238.00	
26	202.40	134.20	225.40	207.20	256.00	14.40	31.40	141.20	74.00	162.50	318.00	243.40	
27	152.40	146.80	232.60	256.00	264.00	43.93	31.40	122.80	54.33	142.60	238.00	220.00	
28	225.40	108.40	194.40	252.40	336.00	48.27	48.27	139.80	47.40	149.60	318.00	215.20	
29	158.00	238.00	220.00	220.00	248.80	47.40	47.40	118.00	54.33	139.80		245.20	
30	141.20	272.00	210.40	241.60	268.00	49.13	36.30	87.40	63.00	109.60		310.00	
31		86.30		310.00	254.20		36.30		57.80	174.50		225.40	
TOTAL	5691.67	5424.50	4986.57	8150.20	7883.70	2570.83	1471.77	2614.80	2272.80	3894.13	7218.30	9630.80	61810.07 CMSDAY
MEAN	189.72	174.98	166.22	262.91	254.31	85.69	47.48	87.16	73.32	125.62	257.80	310.67	169.34 CMS
MAX	324.00	272.00	318.00	380.40	336.00	352.00	104.80	155.20	142.60	196.00	360.00	402.40	402.40 CMS
MIN	56.07	86.30	42.20	164.00	115.60	3.40	21.00	32.10	47.40	51.73	153.80	215.20	3.40 CMS
RUNOFF	491.760	468.677	430.840	704.177	681.152	222.120	127.161	225.919	196.370	336.453	623.661	832.101	5340.391 MCM

MOMENTARY PEAK 505.20 CMS, AT 136.28 M (MSL), AT 21.00 HOURS, ON FEB 28, 1982

RUNOFF YIELD 6.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.14 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

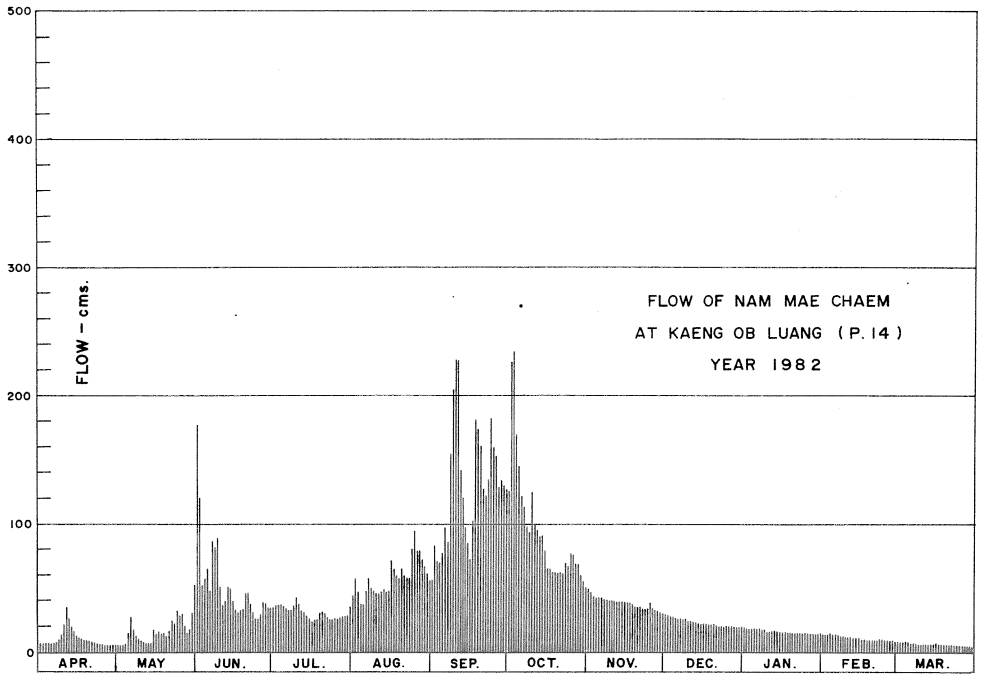
NAM MAE CHAEM AT KAENG OB LUANG, CHIANG MAI (P.14)

LOCATION	LAT. 18°-13'-49" N., LONG. 98°-33'-35" E., ON RIGHT BANK NEAR THE BRIDGE OF HOT-MAE SARIANG HIGHWAY AT GUIDEPOST 7+500, AMPHOE HOT, CHIANG MAI.
DRAINAGE AREA	3,853 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+275.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+282.20 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1953 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	276.78	276.72	278.71	277.31	277.45	277.61	278.30	277.50	277.22	277.07	276.97	276.84	
2	276.78	276.72	278.20	277.34	277.62	277.89	279.03	277.47	277.21	277.07	276.97	276.84	
3	276.77	276.72	277.52	277.34	277.48	277.77	279.11	277.44	277.21	277.07	276.96	276.84	
4	276.77	276.72	277.62	277.35	277.35	277.75	278.69	277.44	277.20	277.07	276.96	276.84	
5	276.76	276.96	277.70	277.32	277.30	277.88	278.48	277.43	277.19	277.07	276.96	276.84	
6	276.79	277.20	277.48	277.30	277.45	278.03	278.29	277.42	277.18	277.07	276.96	276.83	
7	276.81	277.03	277.93	277.26	277.60	277.91	278.17	277.41	277.17	277.06	276.96	276.83	
8	276.83	276.93	277.88	277.29	277.53	278.53	278.09	277.40	277.17	277.05	276.93	276.83	
9	276.90	276.87	277.94	277.33	277.47	278.91	278.00	277.38	277.17	277.04	276.92	276.82	
10	277.12	276.81	277.57	277.42	277.47	279.07	278.30	277.39	277.15	277.03	276.92	276.81	
11	277.29	276.81	277.33	277.33	277.43	279.06	278.08	277.39	277.15	277.03	276.92	276.81	
12	277.18	276.79	277.37	277.26	277.48	278.45	278.03	277.38	277.14	277.03	276.92	276.80	
13	277.05	276.78	277.53	277.26	277.50	278.26	277.97	277.38	277.14	277.03	276.91	276.80	
14	276.95	276.77	277.48	277.21	277.48	278.03	277.98	277.38	277.13	277.02	276.90	276.80	
15	276.88	277.01	277.36	277.17	277.47	277.89	277.85	277.38	277.14	277.02	276.90	276.80	
16	276.85	276.95	277.28	277.13	277.76	277.78	277.70	277.37	277.14	277.02	276.89	276.80	
17	276.85	277.00	277.24	277.19	277.70	278.06	277.71	277.36	277.13	277.02	276.89	276.80	
18	276.84	276.92	277.26	277.18	277.61	278.75	277.67	277.35	277.13	277.01	276.89	276.79	
19	276.83	276.96	277.31	277.25	277.62	278.70	277.68	277.33	277.13	277.01	276.88	276.79	
20	276.82	276.91	277.45	277.26	277.70	278.63	277.67	277.34	277.12	277.01	276.88	276.78	
21	276.80	277.00	277.46	277.22	277.63	278.33	277.68	277.33	277.11	277.01	276.89	276.78	
22	276.78	277.15	277.33	277.21	277.60	278.25	277.66	277.31	277.11	277.01	276.91	276.77	
23	276.77	277.11	277.23	277.19	277.62	278.38	277.76	277.30	277.10	277.01	276.90	276.77	
24	276.75	277.27	277.18	277.14	277.79	278.75	277.73	277.29	277.10	277.00	276.88	276.77	
25	276.74	277.20	277.18	277.16	278.00	278.61	277.83	277.36	277.10	277.00	276.88	276.77	
26	276.73	277.24	277.24	277.17	277.87	278.53	277.84	277.31	277.09	277.01	276.87	276.77	
27	276.73	277.06	277.36	277.19	277.85	278.33	277.71	277.29	277.09	277.01	276.85	276.76	
28	276.73	276.97	277.36	277.20	277.80	278.37	277.76	277.28	277.09	277.01	276.85	276.76	
29	276.72	277.03	277.30	277.20	277.75	278.35	277.63	277.26	277.09	277.00		276.76	
30	276.72	277.29	277.29	277.20	277.66	278.32	277.57	277.24	277.09	276.99		276.76	
31		277.65		277.34	277.58		277.54		277.09	276.98		276.76	
MEAN	276.84	276.99	277.50	277.25	277.60	278.31	277.98	277.36	277.14	277.03	276.91	276.80	
MAX	277.29	277.65	278.71	277.42	278.00	279.07	279.11	277.50	277.22	277.07	276.97	276.84	279.11
MIN	276.72	276.72	277.18	277.13	277.30	277.61	277.54	277.24	277.09	276.98	276.85	276.76	276.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 279.64 M (MSL), AT 1.00 HOURS, ON JAN 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 275.80 M (MSL), RIVER BED 276.09 M (MSL)
LEFT BANK ELEVATION 285.13 M (MSL)
RIGHT BANK ELEVATION 283.28 M (MSL), DRAINAGE AREA 3853 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.40	4.60	176.40	34.70	44.50	56.80	125.00	48.00	28.40	19.50	14.50	8.60	
2	6.40	4.60	114.00	36.80	57.60	82.00	222.50	45.90	27.70	19.50	14.50	8.60	
3	6.10	4.60	49.60	36.80	46.60	70.30	234.50	43.80	27.70	19.50	14.00	8.60	
4	6.10	4.60	57.60	37.50	37.50	68.50	173.70	43.80	27.00	19.50	14.00	8.60	
5	5.80	14.00	64.00	35.40	34.00	81.00	146.60	43.10	26.40	19.50	14.00	8.60	
6	6.70	27.00	46.60	34.00	44.50	96.00	123.90	42.40	25.80	19.50	14.00	8.20	
7	7.40	17.50	86.00	31.20	56.00	84.00	110.70	41.70	25.20	19.00	14.00	8.20	
8	8.20	12.50	81.00	33.30	50.40	152.90	102.00	41.00	25.20	18.50	12.50	8.20	
9	11.00	9.80	87.00	36.10	45.90	204.50	93.00	39.60	25.20	18.00	12.00	7.80	
10	22.20	7.40	53.60	42.40	45.90	228.50	125.00	40.30	24.00	17.50	12.00	7.40	
11	33.30	7.40	36.10	36.10	43.10	227.00	101.00	40.30	24.00	17.50	12.00	7.40	
12	25.80	6.70	38.90	31.20	46.60	143.00	96.00	39.60	23.40	17.50	12.00	7.00	
13	18.50	6.40	50.40	31.20	48.00	120.60	90.00	39.60	23.40	17.50	11.50	7.00	
14	13.50	6.10	46.60	27.70	46.60	96.00	91.00	39.60	22.80	17.00	11.00	7.00	
15	10.20	16.50	38.20	25.20	45.90	82.00	78.00	39.60	23.40	17.00	11.00	7.00	
16	9.00	13.50	32.60	22.80	69.40	71.20	64.00	38.90	23.40	17.00	10.60	7.00	
17	9.00	16.00	29.80	26.40	64.00	99.00	64.90	38.20	22.80	17.00	10.60	7.00	
18	8.60	12.00	31.20	25.80	56.80	182.00	61.60	37.50	22.80	16.50	10.60	6.70	
19	8.20	14.00	34.70	30.50	57.60	175.00	62.40	36.10	22.80	16.50	10.20	6.70	
20	7.80	11.50	44.50	31.20	64.00	165.90	61.60	36.80	22.20	16.50	10.20	6.40	
21	7.00	16.00	45.20	28.40	58.40	128.60	62.40	36.10	21.60	16.50	10.60	6.40	
22	6.40	24.00	36.10	27.70	56.00	119.50	60.80	34.70	21.60	16.50	11.50	6.10	
23	6.10	21.60	29.10	26.40	57.60	134.60	69.40	34.00	21.00	16.50	11.00	6.10	
24	5.50	31.90	25.80	23.40	72.10	182.00	66.70	33.30	21.00	16.00	10.20	6.10	
25	5.20	27.00	25.80	24.60	93.00	163.30	76.00	38.20	21.00	16.00	10.20	6.10	
26	4.90	29.80	29.80	25.20	80.00	152.90	77.00	34.70	20.50	16.50	9.80	6.10	
27	4.90	19.00	38.20	26.40	78.00	128.60	64.90	33.30	20.50	16.50	9.00	5.80	
28	4.90	14.50	38.20	27.00	73.00	133.40	69.40	32.60	20.50	16.50	9.00	5.80	
29	4.60	17.50	34.00	27.00	68.50	131.00	58.40	31.20	20.50	16.00		5.80	
30	4.60	33.30	33.30	27.00	60.80	127.40	53.60	29.80	20.50	15.50		5.80	
31		60.00		36.80	54.40		51.20		20.50	15.00		5.80	
TOTAL	284.30	511.30	1534.30	946.20	1756.70	3887.50	2937.20	1153.70	722.80	537.50	326.50	217.90	14815.90 CMSDAY
MEAN	9.48	16.49	51.14	30.52	56.67	129.58	94.75	38.46	23.32	17.34	11.66	7.03	40.59 CMS
MAX	33.30	60.00	176.40	42.40	93.00	228.50	234.50	48.00	28.40	19.50	14.50	8.60	234.50 CMS
MIN	4.60	4.60	25.80	22.80	34.00	56.80	51.20	29.80	20.50	15.00	9.00	5.80	4.60 CMS
RUNOFF	24.564	44.176	132.564	81.752	151.779	335.880	253.774	99.680	62.450	46.440	28.210	18.827	1280.094 MCM

MOMENTARY PEAK 316.40 CMS, AT 279.64 M (MSL), AT 1.00 HOURS, ON JAN 1, 1982

RUNOFF YIELD 10.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

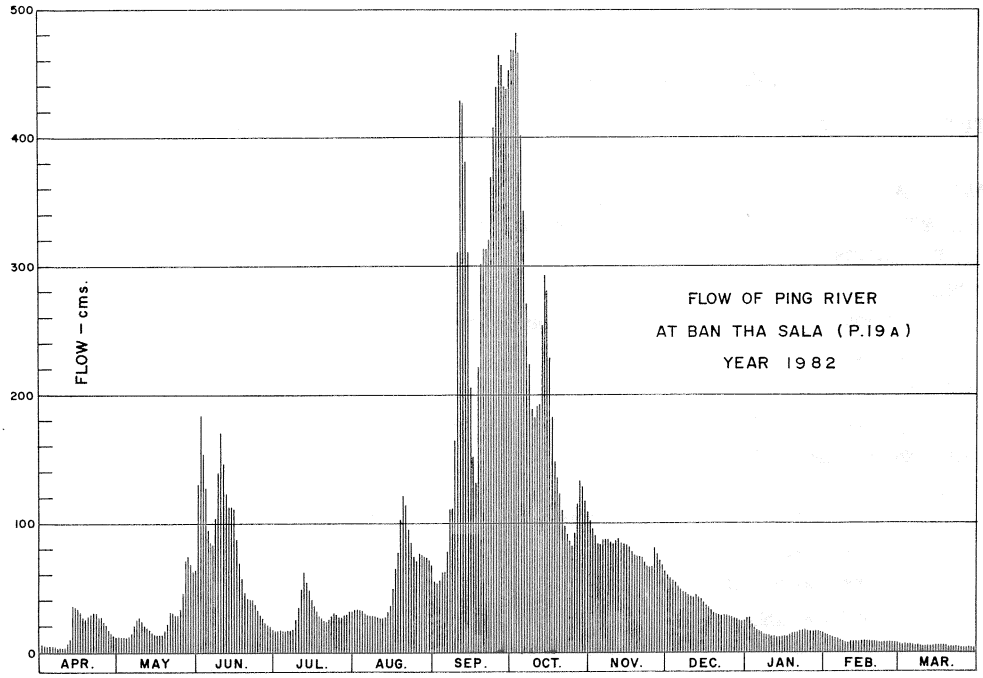
PING RIVER AT BAN THA SALA, CHIANG MAI (P.19A)

LOCATION	LAT. 18°-25'-29" N., LONG. 98°-42'-17" E., ON LEFT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE WITH LI RIVER, AMPHOE CHOM THONG, CHIANG MAI.
DRAINAGE AREA	14,023 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+271.351 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 11 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+276.620 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1958 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1958 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1958 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 28,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	271.98	272.17	273.18	272.27	272.50	272.78	275.09	273.17	272.80	272.42	272.18	272.01	
2	271.97	272.16	273.76	272.28	272.51	272.74	275.09	273.14	272.78	272.40	272.16	272.01	
3	271.95	272.13	273.59	272.28	272.51	272.78	275.15	273.11	272.76	272.34	272.15	272.00	
4	271.95	272.12	273.35	272.27	272.49	272.84	275.02	273.04	272.75	272.29	272.13	271.99	
5	271.94	272.15	273.15	272.27	272.45	272.84	274.71	273.04	272.73	272.25	272.13	271.99	
6	271.94	272.20	273.03	272.27	272.44	273.00	274.39	273.07	272.71	272.24	272.11	271.98	
7	271.93	272.35	273.03	272.27	272.44	273.26	274.13	273.06	272.67	272.21	272.09	271.98	
8	271.92	272.39	273.31	272.28	272.45	273.27	273.96	273.07	272.66	272.20	272.08	271.97	
9	271.92	272.41	273.58	272.38	272.44	273.63	273.79	273.04	272.66	272.19	272.07	271.96	
10	271.93	272.37	273.67	272.51	272.42	274.43	273.75	273.03	272.64	272.18	272.07	271.96	
11	272.02	272.33	273.53	272.76	272.41	274.93	273.79	273.06	272.63	272.17	272.07	271.96	
12	272.05	272.30	273.35	272.84	272.40	274.93	273.81	273.08	272.65	272.17	272.07	271.96	
13	272.53	272.24	273.29	272.77	272.41	274.67	274.17	273.06	272.63	272.17	272.07	271.96	
14	272.52	272.21	273.29	272.69	272.44	274.28	274.32	273.04	272.62	272.17	272.07	271.97	
15	272.51	272.19	273.24	272.61	272.53	273.87	274.21	273.04	272.58	272.17	272.05	271.97	
16	272.45	272.18	273.13	272.53	272.73	273.53	273.98	273.02	272.55	272.16	272.05	271.97	
17	272.40	272.18	272.93	272.48	272.87	273.42	273.77	273.00	272.51	272.15	272.05	271.97	
18	272.39	272.19	272.78	272.45	273.01	273.95	273.58	272.98	272.47	272.20	272.05	271.97	
19	272.44	272.27	272.70	272.40	273.23	274.34	273.46	272.96	272.45	272.20	272.05	271.96	
20	272.44	272.37	272.65	272.37	273.34	274.42	273.35	272.96	272.44	272.20	272.04	271.95	
21	272.47	272.49	272.62	272.36	273.29	274.42	273.25	272.94	272.43	272.21	272.04	271.95	
22	272.47	272.46	272.62	272.39	273.14	274.47	273.16	272.91	272.44	272.24	272.04	271.97	
23	272.42	272.45	272.57	272.45	273.04	274.67	273.10	272.88	272.45	272.26	272.04	271.97	
24	272.42	272.45	272.49	272.47	272.97	274.85	273.06	272.87	272.43	272.26	272.04	271.97	
25	272.39	272.53	272.43	272.43	272.92	274.99	273.03	272.89	272.42	272.23	272.04	271.96	
26	272.35	272.72	272.39	272.41	272.98	275.08	273.16	273.01	272.43	272.22	272.04	271.96	
27	272.28	272.92	272.36	272.40	272.97	275.04	273.33	272.98	272.41	272.21	272.04	271.97	
28	272.20	272.96	272.32	272.44	272.95	274.97	273.42	272.93	272.39	272.19	272.03	271.97	
29	272.17	272.90	272.30	272.44	272.95	274.96	273.39	272.89	272.38	272.19		271.96	
30	272.16	272.83	272.28	272.48	272.91	275.03	273.31	272.83	272.37	272.20		271.96	
31		272.85		272.48	272.85		273.25		272.37	272.20		271.96	
MEAN	272.22	272.40	272.96	272.44	272.74	274.08	273.84	273.00	272.56	272.22	272.07	271.97	
MAX	272.53	272.96	273.76	272.84	273.34	275.08	275.15	273.17	272.80	272.42	272.18	272.01	275.15
MIN	271.92	272.12	272.28	272.27	272.40	272.74	273.03	272.83	272.37	272.15	272.03	271.95	271.92

ANNUAL MAX MOMENTARY GAGE HEIGHT 275.18 M (MSL), AT 16.00 HOURS, ON OCT 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 271.35 M (MSL), RIVER BED 271.60 M (MSL)
LEFT BANK ELEVATION 277.12 M (MSL)
RIGHT BANK ELEVATION 276.16 M (MSL), DRAINAGE AREA 14023 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	6.18	100.40	10.56	27.00	54.00	467.50	99.10	56.00	20.04	6.52	1.37	
2	0.77	5.84	185.60	11.04	27.90	50.00	467.50	95.20	54.00	18.30	5.84	1.37	
3	0.55	4.82	158.40	11.04	27.90	54.00	482.50	91.30	52.00	14.52	5.50	1.10	
4	0.55	4.48	123.00	10.56	26.13	60.53	450.01	83.20	51.00	11.52	4.82	0.99	
5	0.44	5.50	96.50	10.56	22.65	60.53	378.30	83.20	49.00	9.60	4.82	0.99	
6	0.44	7.20	82.07	10.56	21.78	78.67	308.32	86.60	47.00	9.12	4.14	0.88	
7	0.33	15.15	82.07	10.56	21.78	110.80	257.06	85.47	43.00	7.68	3.53	0.88	
8	0.22	17.67	117.40	11.04	22.65	112.10	223.54	86.60	42.00	7.20	3.26	0.77	
9	0.22	19.17	156.80	17.04	21.78	164.80	190.40	83.20	42.00	6.86	2.99	0.66	
10	0.33	16.41	171.20	27.90	20.04	316.20	184.00	82.07	40.00	6.52	2.99	0.66	
11	1.64	13.89	148.80	52.00	19.17	428.90	190.40	85.47	39.00	6.18	2.99	0.66	
12	2.45	12.00	123.00	60.53	18.30	428.90	193.97	87.73	41.00	6.18	2.99	0.66	
13	29.70	9.12	114.70	53.00	19.17	369.10	264.95	85.47	39.00	6.18	2.99	0.66	
14	28.80	7.68	114.70	45.00	21.78	286.63	294.52	83.20	38.00	6.18	2.99	0.77	
15	27.90	6.86	108.20	37.00	29.70	205.80	272.83	83.20	34.20	6.18	2.45	0.77	
16	22.65	6.52	93.90	29.70	49.00	148.80	227.49	80.94	31.50	5.84	2.45	0.77	
17	18.30	6.52	70.73	25.26	63.93	132.80	187.20	78.67	27.90	5.50	2.45	0.77	
18	17.67	6.86	54.00	22.65	79.80	221.58	156.80	76.40	24.39	7.20	2.45	0.77	
19	21.78	10.56	46.00	18.30	106.90	298.46	138.40	74.13	22.65	7.20	2.45	0.66	
20	21.78	16.41	41.00	16.41	121.60	314.23	123.00	74.13	21.78	7.20	2.18	0.55	
21	24.39	26.13	38.00	15.78	114.70	314.23	109.50	71.87	20.91	7.68	2.18	0.55	
22	24.39	23.52	38.00	17.67	95.20	324.09	97.80	68.47	21.78	9.12	2.18	0.77	
23	20.04	22.65	33.30	22.65	83.20	369.10	90.00	65.07	22.65	10.08	2.18	0.77	
24	20.04	22.65	26.13	24.39	75.27	410.50	85.47	63.93	20.91	10.08	2.18	0.77	
25	17.67	29.70	20.91	20.91	69.60	442.70	82.07	66.20	20.04	8.64	2.18	0.66	
26	15.15	48.00	17.67	19.17	76.40	465.01	97.80	79.80	20.91	8.16	2.18	0.66	
27	11.04	69.60	15.78	18.30	75.27	455.00	120.20	76.40	19.17	7.68	2.18	0.77	
28	7.20	74.13	13.26	21.78	73.00	438.10	132.80	70.73	17.67	6.86	1.91	0.77	
29	6.18	67.33	12.00	21.78	73.00	435.80	128.60	66.20	17.04	6.86		0.66	
30	5.84	59.40	11.04	25.26	68.47	452.50	117.40	59.40	16.41	7.20		0.66	
31		61.67		25.26	61.67		109.50		16.41	7.20		0.66	
TOTAL	349.34	703.62	2414.56	723.66	1634.74	8003.86	6629.83	2373.35	1009.32	264.76	87.97	24.41	24219.42 CMSDAY
MEAN	11.64	22.70	80.49	23.34	52.73	266.80	213.87	79.11	32.56	8.54	3.14	0.79	66.35 CMS
MAX	29.70	74.13	185.60	60.53	121.60	465.01	482.50	99.10	56.00	20.04	6.52	1.37	482.50 CMS
MIN	0.22	4.48	11.04	10.56	18.30	50.00	82.07	59.40	16.41	5.50	1.91	0.55	0.22 CMS
RUNOFF	30.183	60.793	208.618	62.524	141.242	691.534	572.817	205.057	87.205	22.875	7.601	2.109	2092.558 MCM

MOMENTARY PEAK 490.00 CMS, AT 275.18 M (MSL), AT 16.00 HOURS, ON OCT 3, 1982

RUNOFF YIELD 4.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

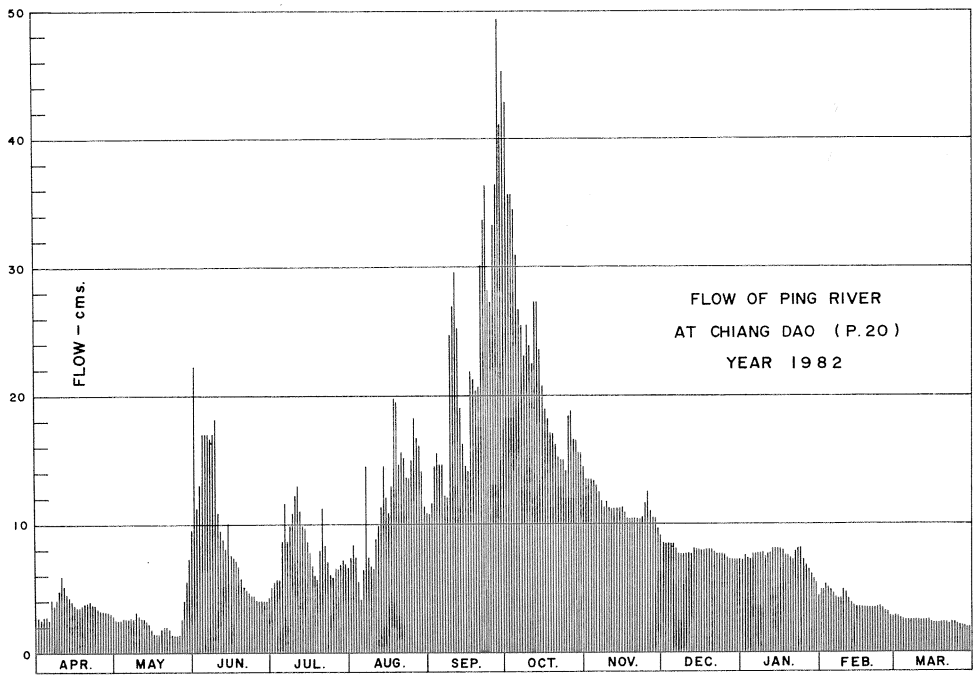
PING RIVER AT CHIANG DAO, CHIANG MAI (P.20)

LOCATION	LAT. 19°-22'-06" N., LONG. 98°-58'-20" E., ON RIGHT BANK NEAR WAT INTHRA RAM, AMPHOE CHIANG DAO, CHIANG MAI.
DRAINAGE AREA	1,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 2 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+4.133 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE AND FULL OF DEBRIS.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (AD.), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.64	1.09	0.73	0.78	0.86	1.41	0.93	0.81	0.78	0.72	0.65	
2	0.65	0.64	0.88	0.74	0.81	0.89	1.31	0.93	0.81	0.79	0.72	0.65	
3	0.65	0.64	0.92	0.74	0.79	0.96	1.31	0.93	0.81	0.78	0.73	0.64	
4	0.66	0.65	1.00	0.74	0.76	0.97	1.29	0.92	0.81	0.78	0.72	0.64	
5	0.63	0.65	1.00	0.82	0.70	0.95	1.21	0.92	0.81	0.79	0.72	0.64	
6	0.70	0.65	1.00	0.89	0.76	0.95	1.17	0.91	0.80	0.79	0.71	0.64	
7	0.68	0.65	0.99	0.81	0.95	0.90	1.14	0.89	0.79	0.79	0.70	0.64	
8	0.70	0.66	1.00	0.84	0.79	0.90	1.10	0.88	0.79	0.79	0.70	0.64	
9	0.72	0.66	1.02	0.87	0.77	1.13	1.14	0.89	0.79	0.79	0.71	0.64	
10	0.75	0.65	0.91	0.90	0.76	1.16	1.12	0.88	0.79	0.78	0.72	0.64	
11	0.72	0.65	0.84	0.92	0.82	1.21	1.09	0.88	0.79	0.79	0.71	0.64	
12	0.71	0.64	0.82	0.87	0.83	1.11	1.17	0.88	0.79	0.79	0.70	0.64	
13	0.70	0.63	0.80	0.85	0.87	1.02	1.17	0.88	0.80	0.80	0.69	0.64	
14	0.70	0.62	0.85	0.84	0.95	0.99	1.11	0.88	0.80	0.80	0.68	0.64	
15	0.69	0.60	0.81	0.82	0.91	0.95	1.07	0.88	0.80	0.80	0.68	0.63	
16	0.68	0.60	0.78	0.80	0.87	0.94	1.04	0.87	0.80	0.80	0.68	0.63	
17	0.68	0.60	0.78	0.77	0.92	1.08	1.02	0.86	0.80	0.80	0.68	0.63	
18	0.68	0.61	0.77	0.75	1.05	1.07	1.00	0.86	0.80	0.79	0.68	0.63	
19	0.69	0.61	0.74	0.74	1.04	1.05	1.00	0.86	0.80	0.79	0.68	0.63	
20	0.70	0.62	0.73	0.80	0.95	1.06	0.98	0.86	0.80	0.78	0.68	0.63	
21	0.70	0.62	0.72	0.88	0.97	1.19	0.96	0.86	0.79	0.78	0.68	0.63	
22	0.69	0.61	0.71	0.81	0.96	1.27	0.96	0.86	0.79	0.80	0.68	0.63	
23	0.69	0.59	0.71	0.78	0.93	1.32	0.96	0.86	0.79	0.80	0.68	0.63	
24	0.69	0.59	0.71	0.76	0.93	1.19	0.94	0.89	0.79	0.80	0.68	0.63	
25	0.67	0.59	0.71	0.74	0.96	1.17	1.02	0.91	0.79	0.78	0.68	0.62	
26	0.67	0.59	0.70	0.76	1.02	1.27	1.03	0.88	0.78	0.77	0.67	0.62	
27	0.67	0.64	0.70	0.76	1.00	1.32	0.99	0.86	0.78	0.76	0.66	0.62	
28	0.67	0.70	0.70	0.77	0.98	1.49	0.99	0.86	0.78	0.75	0.65	0.62	
29	0.66	0.74	0.70	0.78	0.93	1.35	0.97	0.84	0.78	0.74		0.62	
30	0.66	0.79	0.72	0.77	0.89	1.44	0.97	0.83	0.78	0.74		0.62	
31		0.84		0.76	0.87		0.95		0.78	0.70		0.62	
MEAN	0.68	0.64	0.83	0.80	0.89	1.11	1.08	0.88	0.79	0.78	0.69	0.63	
MAX	0.75	0.84	1.09	0.92	1.05	1.49	1.41	0.93	0.81	0.80	0.73	0.65	1.49
MIN	0.63	0.59	0.70	0.73	0.70	0.86	0.94	0.83	0.78	0.70	0.65	0.62	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.69 M (AD.), AT 19.00 HOURS, ON SEP 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (AD.), RIVER BED -0.72 M (AD.)
LEFT BANK ELEVATION 5.99 M (AD.)
RIGHT BANK ELEVATION 7.09 M (AD.), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.75	2.50	22.40	5.20	7.20	10.40	42.80	13.50	8.40	7.20	4.80	2.75	
2	2.75	2.50	11.20	5.60	8.40	11.60	35.70	13.50	8.40	7.60	4.80	2.75	
3	2.75	2.50	13.00	5.60	7.60	15.00	35.70	13.50	8.40	7.20	5.20	2.50	
4	3.00	2.75	17.00	5.60	6.40	15.50	34.40	13.00	8.40	7.20	4.80	2.50	
5	2.25	2.75	17.00	8.80	4.00	14.50	29.60	13.00	8.40	7.60	4.80	2.50	
6	4.00	2.75	17.00	11.60	6.40	14.50	27.20	12.50	8.00	7.60	4.40	2.50	
7	3.50	2.75	16.50	8.40	14.50	12.00	25.40	11.60	7.60	7.60	4.00	2.50	
8	4.00	3.00	17.00	9.60	7.60	12.00	23.00	11.20	7.60	7.60	4.00	2.50	
9	4.80	3.00	18.20	10.80	6.80	24.80	25.40	11.60	7.60	7.60	4.40	2.50	
10	6.00	2.75	12.50	12.00	6.40	26.60	24.20	11.20	7.60	7.20	4.80	2.50	
11	4.80	2.75	9.60	13.00	8.80	29.60	22.40	11.20	7.60	7.60	4.40	2.50	
12	4.40	2.50	8.80	10.80	9.20	23.60	27.20	11.20	7.60	7.60	4.00	2.50	
13	4.00	2.25	8.00	10.00	10.80	18.20	27.20	11.20	8.00	8.00	3.75	2.50	
14	4.00	2.00	10.00	9.60	14.50	16.50	23.60	11.20	8.00	8.00	3.50	2.50	
15	3.75	1.50	8.40	8.80	12.50	14.50	21.20	11.20	8.00	8.00	3.50	2.25	
16	3.50	1.50	7.20	8.00	10.80	14.00	19.40	10.80	8.00	8.00	3.50	2.25	
17	3.50	1.50	7.20	6.80	13.00	21.80	18.20	10.40	8.00	8.00	3.50	2.25	
18	3.50	1.75	6.80	6.00	20.00	21.20	17.00	10.40	8.00	7.60	3.50	2.25	
19	3.75	1.75	5.60	5.60	19.40	20.00	17.00	10.40	8.00	7.60	3.50	2.25	
20	4.00	2.00	5.20	8.00	14.50	20.60	16.00	10.40	8.00	7.20	3.50	2.25	
21	4.00	2.00	4.80	11.20	15.50	28.40	15.00	10.40	7.60	7.20	3.50	2.25	
22	3.75	1.75	4.40	8.40	15.00	33.20	15.00	10.40	7.60	8.00	3.50	2.25	
23	3.75	1.35	4.40	7.20	13.50	36.40	15.00	10.40	7.60	8.00	3.50	2.25	
24	3.75	1.35	4.40	6.40	13.50	28.40	14.00	11.60	7.60	8.00	3.50	2.25	
25	3.25	1.35	4.40	5.60	15.00	27.20	18.20	12.50	7.60	7.20	3.50	2.00	
26	3.25	1.35	4.00	6.40	18.20	33.20	18.80	11.20	7.20	6.80	3.25	2.00	
27	3.25	2.50	4.00	6.40	17.00	36.40	16.50	10.40	7.20	6.40	3.00	2.00	
28	3.25	4.00	4.00	6.80	16.00	49.20	16.50	10.40	7.20	6.00	2.75	2.00	
29	3.00	5.60	4.00	7.20	13.50	38.50	15.50	9.60	7.20	5.60		2.00	
30	3.00	7.60	4.80	6.80	11.60	45.20	15.50	9.20	7.20	5.60		2.00	
31		9.60		6.40	10.80		14.50		7.20	4.00		2.00	
TOTAL	109.25	85.20	281.80	248.60	368.40	713.00	687.10	339.10	240.80	224.80	109.15	72.00	3479.20 CMSDAY
MEAN	3.64	2.75	9.39	8.02	11.88	23.77	22.16	11.30	7.77	7.25	3.90	2.32	9.53 CMS
MAX	6.00	9.60	22.40	13.00	20.00	49.20	42.80	13.50	8.40	8.00	5.20	2.75	49.20 CMS
MIN	2.25	1.35	4.00	5.20	4.00	10.40	14.00	9.20	7.20	4.00	2.75	2.00	1.35 CMS
RUNOFF	9.439	7.361	24.348	21.479	31.830	61.603	59.365	29.298	20.805	19.423	9.431	6.221	300.603 MCM

MOMENTARY PEAK 66.10 CMS, AT 1.69 M (AD.), AT 19.00 HOURS, ON SEP 27, 1982
RUNOFF YIELD 7.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 48.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

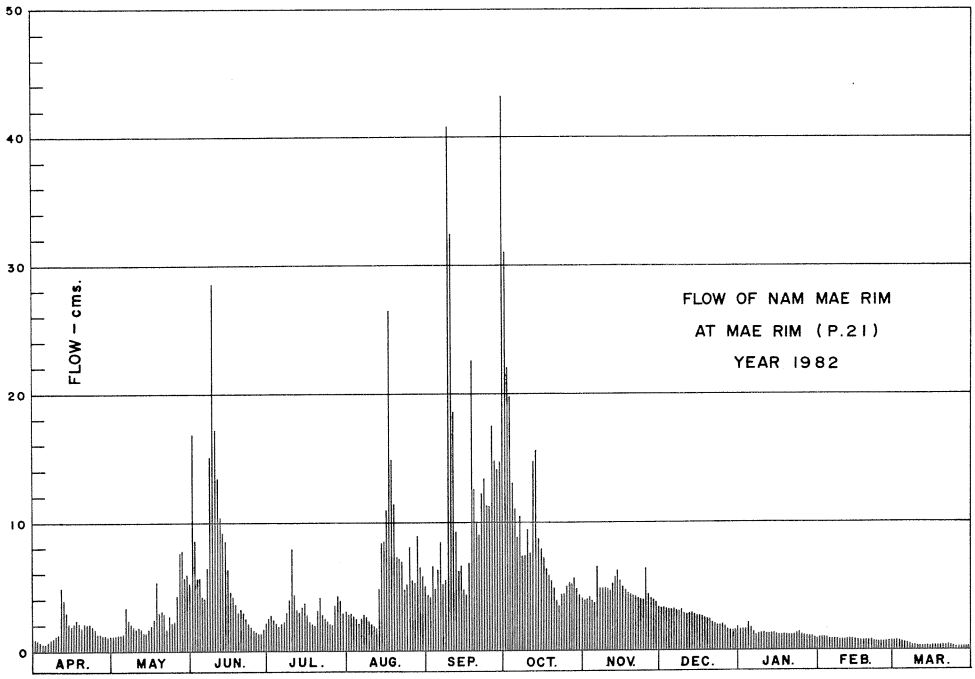
NAM MAE RIM NEAR MAE RIM, CHIANG MAI (P.21)

LOCATION	LAT. 18°-55'-29" N., LONG. 98°-56'-34" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM THE BRIDGE OF CHIANG MAI-FANG HIGHWAY, AMPHOE MAE RIM, CHIANG MAI.
DRAINAGE AREA	515 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+319.70 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF GAGE OBSERVER'S HOUSE.
ELEVATION	+322.038 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	320.25	320.28	321.49	320.51	320.55	320.70	321.95	320.66	320.61	320.38	320.29	320.20	
2	320.20	320.28	321.10	320.54	320.56	320.69	321.64	320.67	320.60	320.38	320.29	320.18	
3	320.18	320.28	320.83	320.50	320.54	320.90	321.60	320.68	320.60	320.38	320.28	320.17	
4	320.15	320.29	320.83	320.45	320.50	320.77	321.36	320.67	320.59	320.46	320.28	320.13	
5	320.15	320.33	320.70	320.42	320.47	320.96	321.22	320.65	320.58	320.39	320.27	320.13	
6	320.19	320.61	320.68	320.45	320.49	321.03	321.06	320.89	320.58	320.33	320.26	320.13	
7	320.23	320.48	320.89	320.45	320.56	320.78	321.16	320.75	320.57	320.33	320.26	320.15	
8	320.23	320.46	321.35	320.55	320.53	320.83	320.96	320.75	320.56	320.32	320.25	320.14	
9	320.25	320.41	321.89	320.66	320.48	322.16	320.96	320.76	320.57	320.34	320.26	320.13	
10	320.29	320.39	321.54	321.00	320.44	322.01	321.13	320.75	320.56	320.34	320.26	320.12	
11	320.75	320.42	321.38	320.71	320.43	321.52	320.98	320.73	320.54	320.33	320.24	320.13	
12	320.64	320.37	321.17	320.57	320.54	321.10	321.39	320.79	320.55	320.33	320.23	320.11	
13	320.56	320.35	321.13	320.56	320.77	320.87	321.41	320.84	320.53	320.33	320.25	320.11	
14	320.45	320.33	321.03	320.63	321.03	320.90	321.06	320.86	320.54	320.33	320.25	320.11	
15	320.41	320.38	320.88	320.65	321.04	320.76	321.01	320.81	320.52	320.32	320.22	320.10	
16	320.44	320.42	320.75	320.56	321.21	320.62	320.94	320.77	320.53	320.32	320.21	320.16	
17	320.49	320.48	320.69	320.50	321.83	320.91	320.86	320.74	320.51	320.30	320.21	320.10	
18	320.46	320.80	320.63	320.44	321.39	321.71	320.82	320.72	320.50	320.32	320.17	320.09	
19	320.40	320.56	320.56	320.43	321.20	321.29	320.81	320.70	320.51	320.32	320.17	320.10	
20	320.44	320.58	320.59	320.55	321.07	321.15	320.77	320.68	320.49	320.32	320.18	320.14	
21	320.41	320.55	320.57	320.69	320.95	321.08	320.65	320.68	320.46	320.30	320.21	320.09	
22	320.44	320.39	320.48	320.56	320.93	321.27	320.62	320.67	320.45	320.32	320.18	320.16	
23	320.43	320.54	320.46	320.51	320.75	321.32	320.72	320.66	320.43	320.34	320.21	320.10	
24	320.38	320.46	320.42	320.46	320.88	321.22	320.68	320.66	320.44	320.35	320.20	320.08	
25	320.33	320.50	320.38	320.44	321.01	321.21	320.74	320.88	320.44	320.32	320.19	320.09	
26	320.34	320.74	320.36	320.43	320.83	321.86	320.79	320.71	320.42	320.31	320.18	320.08	
27	320.29	320.98	320.34	320.63	320.79	321.79	320.79	320.67	320.38	320.31	320.24	320.08	
28	320.33	320.99	320.34	320.71	321.07	321.76	320.82	320.65	320.37	320.31	320.18	320.07	
29	320.30	320.83	320.42	320.63	320.97	321.78	320.74	320.65	320.38	320.30		320.07	
30	320.28	320.88	320.46	320.53	320.84	322.21	320.71	320.62	320.37	320.28		320.07	
31		320.78		320.60	320.73		320.68		320.41	320.26		320.07	
MEAN	320.36	320.52	320.81	320.56	320.82	321.24	321.00	320.72	320.50	320.33	320.23	320.12	
MAX	320.75	320.99	321.89	321.00	321.83	322.21	321.95	320.89	320.61	320.46	320.29	320.20	322.21
MIN	320.15	320.28	320.34	320.42	320.43	320.62	320.62	320.62	320.37	320.26	320.17	320.07	320.07

ANNUAL MAX MOMENTARY GAGE HEIGHT 322.24 M (MSL), AT 18.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 319.70 M (MSL), RIVER BED 319.38 M (MSL)
LEFT BANK ELEVATION 322.98 M (MSL)
RIGHT BANK ELEVATION 322.96 M (MSL), DRAINAGE AREA 515 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	1.02	16.89	2.54	2.88	4.25	30.95	3.87	3.40	1.62	1.06	0.70	
2	0.70	1.02	9.45	2.79	2.96	4.15	20.68	3.97	3.30	1.62	1.06	0.62	
3	0.62	1.02	5.68	2.45	2.79	6.55	19.60	4.06	3.30	1.62	1.02	0.58	
4	0.50	1.06	5.68	2.10	2.45	4.99	14.18	3.97	3.22	2.17	1.02	0.42	
5	0.50	1.30	4.25	1.89	2.24	7.36	11.47	3.78	3.13	1.69	0.98	0.42	
6	0.66	3.40	4.06	2.10	2.38	8.36	8.83	6.43	3.13	1.30	0.94	0.42	
7	0.82	2.31	6.43	2.10	2.96	5.09	10.44	4.78	3.05	1.30	0.94	0.50	
8	0.82	2.17	13.98	2.88	2.70	5.68	7.36	4.78	2.96	1.23	0.90	0.46	
9	0.90	1.82	28.55	3.87	2.31	40.50	7.36	4.88	3.05	1.36	0.94	0.42	
10	1.06	1.69	18.10	7.90	2.03	33.45	9.94	4.78	2.96	1.36	0.94	0.38	
11	4.78	1.89	14.59	4.36	1.96	17.60	7.63	4.57	2.79	1.30	0.86	0.42	
12	3.68	1.56	10.61	3.05	2.79	9.45	14.80	5.20	2.88	1.30	0.82	0.34	
13	2.96	1.43	9.94	2.96	4.99	6.18	15.21	5.80	2.70	1.30	0.90	0.34	
14	2.10	1.30	8.36	3.58	8.36	6.55	8.83	6.05	2.79	1.30	0.90	0.34	
15	1.82	1.62	6.30	3.78	8.52	4.88	8.06	5.43	2.62	1.23	0.78	0.30	
16	2.03	1.89	4.78	2.96	11.29	3.49	7.09	4.99	2.70	1.23	0.74	0.54	
17	2.38	2.31	4.15	2.45	26.45	6.69	6.05	4.67	2.54	1.10	0.74	0.30	
18	2.17	5.30	3.58	2.03	14.80	22.61	5.55	4.46	2.45	1.23	0.58	0.27	
19	1.75	2.96	2.96	1.96	11.10	12.77	5.43	4.25	2.54	1.23	0.58	0.30	
20	2.03	3.13	3.22	2.88	8.99	10.28	4.99	4.06	2.38	1.23	0.62	0.46	
21	1.82	2.88	3.05	4.15	7.23	9.14	3.78	4.06	2.17	1.10	0.74	0.27	
22	2.03	1.69	2.31	2.96	6.96	12.40	3.49	3.97	2.10	1.23	0.62	0.54	
23	1.96	2.79	2.17	2.54	4.78	13.36	4.46	3.87	1.96	1.36	0.74	0.30	
24	1.62	2.17	1.89	2.17	6.30	11.47	4.06	3.87	2.03	1.43	0.70	0.24	
25	1.30	2.45	1.62	2.03	8.06	11.29	4.67	6.30	2.03	1.23	0.66	0.27	
26	1.36	4.67	1.49	1.96	5.68	27.50	5.20	4.36	1.89	1.17	0.62	0.24	
27	1.06	7.63	1.36	3.58	5.20	25.09	5.20	3.97	1.62	1.17	0.86	0.24	
28	1.30	7.77	1.36	4.36	8.99	24.16	5.55	3.78	1.56	1.17	0.62	0.21	
29	1.10	5.68	1.89	3.58	7.50	24.78	4.67	3.78	1.62	1.10		0.21	
30	1.02	6.30	2.17	2.70	5.80	43.05	4.36	3.49	1.56	1.02		0.21	
31		5.09		3.30	4.57		4.06		1.82	0.94		0.21	
TOTAL	47.75	89.32	200.87	93.96	196.02	423.12	273.95	136.23	78.25	40.64	22.88	11.47	1614.46 CMSDAY
MEAN	1.59	2.88	6.70	3.03	6.32	14.10	8.84	4.54	2.52	1.31	0.82	0.37	4.42 CMS
MAX	4.78	7.77	28.55	7.90	26.45	43.05	30.95	6.43	3.40	2.17	1.06	0.70	43.05 CMS
MIN	0.50	1.02	1.36	1.89	1.96	3.49	3.49	3.49	1.56	0.94	0.58	0.21	0.21 CMS
RUNOFF	4.126	7.717	17.355	8.118	16.936	36.558	23.669	11.770	6.761	3.511	1.977	0.991	139.489 MCM

MOMENTARY PEAK 44.70 CMS, AT 322.24 M (MSL), AT 18.00 HOURS, ON SEP 30, 1982
RUNOFF YIELD 8.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 86.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

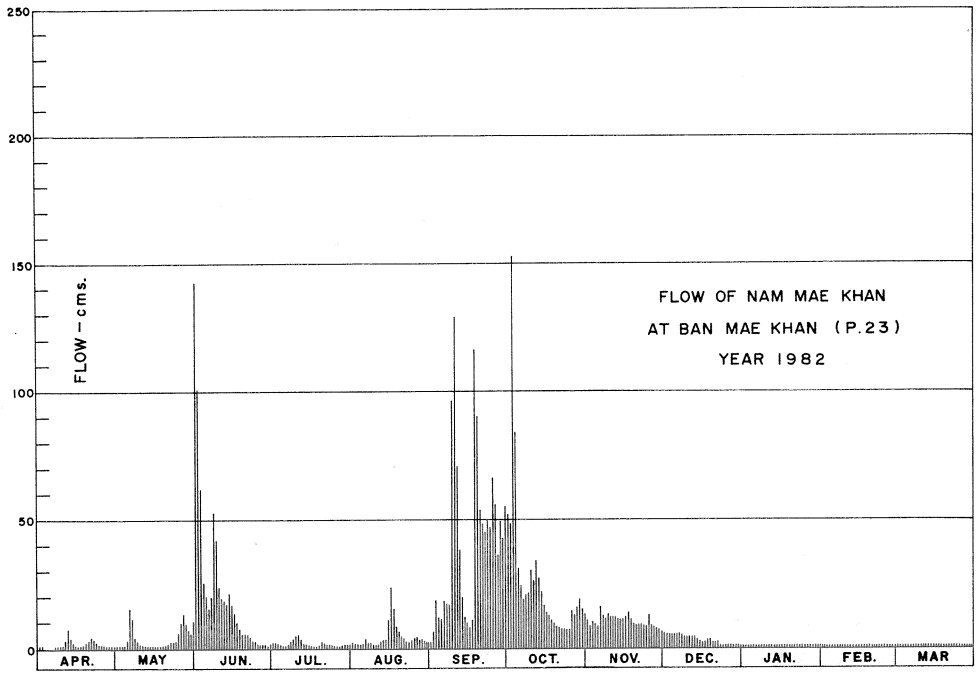
NAM MAE KHAN AT BAN MAE KHAN, CHIANG MAI (P.23)

LOCATION	LAT. 18-31-37 N., LONG. 98-51-42 E., ON LEFT BANK DOWNSTREAM AT THE BRIDGE ON HIGHWAY, AMPHOE SAN PA TONG, CHIANG MAI.
DRAINAGE AREA	1,777 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+285.622 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+289.483 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954-1960, 1967, 1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954-1960, 1967, 1969 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 WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.53	286.64	288.71	287.12	287.13	287.10	288.02	287.42	287.30	286.94	286.72	286.62	
2	286.52	286.62	288.30	287.10	287.14	287.29	287.97	287.40	287.27	286.94	286.72	286.62	
3	286.51	286.60	288.07	287.08	287.12	287.56	288.77	287.40	287.27	286.95	286.71	286.62	
4	286.51	286.67	287.67	287.01	287.09	287.44	288.15	287.38	287.27	287.00	286.71	286.62	
5	286.51	286.86	287.58	286.97	287.05	287.42	287.79	287.37	287.27	286.92	286.69	286.62	
6	286.51	287.50	287.51	286.93	287.19	287.56	287.66	287.52	287.27	286.93	286.69	286.62	
7	286.52	287.35	287.58	286.98	287.14	287.53	287.55	287.49	287.25	286.96	286.69	286.62	
8	286.58	287.20	288.02	287.15	287.11	287.53	287.60	287.43	287.27	286.98	286.69	286.61	
9	286.66	287.12	287.91	287.16	287.07	288.29	287.60	287.47	287.24	286.95	286.68	286.61	
10	286.72	287.05	287.66	287.23	287.07	288.63	287.74	287.44	287.21	286.89	286.68	286.61	
11	286.88	286.98	287.58	287.26	287.09	288.37	287.68	287.44	287.21	286.84	286.68	286.61	
12	287.34	286.86	287.55	287.15	287.12	287.88	287.78	287.44	287.21	286.81	286.67	286.60	
13	287.18	286.80	287.53	287.06	287.16	287.59	287.75	287.43	287.21	286.74	286.67	286.60	
14	287.03	286.76	287.60	287.00	287.20	287.47	287.62	287.42	287.18	286.74	286.67	286.59	
15	286.94	286.71	287.52	286.89	287.37	287.43	287.56	287.42	287.14	286.74	286.66	286.57	
16	286.79	286.62	287.44	286.76	287.64	287.34	287.49	287.45	287.14	286.74	286.66	286.57	
17	286.85	286.66	287.39	286.63	287.50	287.42	287.47	287.48	287.17	286.82	286.66	286.57	
18	286.99	286.70	287.29	286.66	287.40	288.55	287.40	287.43	287.17	286.91	286.65	286.56	
19	287.13	286.67	287.27	286.73	287.29	288.37	287.38	287.40	287.16	286.94	286.65	286.55	
20	287.17	286.76	287.27	287.10	287.22	288.04	287.37	287.39	287.15	286.97	286.64	286.55	
21	287.21	287.07	287.26	287.10	287.16	287.98	287.36	287.38	287.13	286.98	286.64	286.55	
22	287.16	287.10	287.21	287.08	287.13	287.93	287.34	287.38	287.10	286.98	286.63	286.55	
23	287.07	287.12	287.15	287.07	287.10	288.00	287.33	287.39	286.97	287.09	286.63	286.55	
24	287.01	287.15	287.10	287.05	287.16	287.96	287.32	287.36	286.96	287.05	286.62	286.55	
25	286.93	287.27	287.09	287.03	287.20	288.17	287.30	287.47	286.94	287.04	286.62	286.55	
26	286.73	287.41	287.09	286.99	287.21	288.06	287.49	287.36	286.90	286.94	286.62	286.56	
27	286.71	287.47	287.08	286.97	287.20	287.84	287.44	287.35	286.88	286.80	286.62	286.56	
28	286.66	287.35	287.05	286.95	287.18	287.98	287.52	287.34	286.90	286.73	286.62	286.57	
29	286.66	287.32	286.93	287.00	287.15	287.91	287.56	287.32	286.92	286.73		286.57	
30	286.65	287.28	286.96	287.09	287.14	288.05	287.51	287.29	286.79	286.73		286.57	
31		287.42		287.09	287.12		287.47		286.80	286.72		286.59	
MEAN	286.82	287.00	287.48	287.01	287.19	287.82	287.61	287.41	287.12	286.89	286.66	286.58	
MAX	287.34	287.50	288.71	287.26	287.64	288.63	288.77	287.52	287.30	287.09	286.72	286.62	288.77
MIN	286.51	286.60	286.93	286.63	287.05	287.10	287.30	287.29	286.79	286.72	286.62	286.55	286.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 289.30 M (MSL), AT 18.00 HOURS, ON JUN 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 285.62 M (MSL), RIVER BED 286.08 M (MSL)
LEFT BANK ELEVATION 391.87 M (MSL)
RIGHT BANK ELEVATION 391.95 M (MSL), DRAINAGE AREA 1777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.13	142.40	2.35	2.52	2.00	52.90	11.06	6.50	0.85	0.30	0.09	
2	0.01	0.09	82.00	2.00	2.70	6.23	48.45	10.00	5.67	0.85	0.30	0.09	
3	0.01	0.05	57.65	1.80	2.35	18.72	153.80	10.00	5.67	0.87	0.27	0.09	
4	0.01	0.19	25.48	1.10	1.90	12.12	65.50	9.30	5.67	1.00	0.27	0.09	
5	0.01	0.65	19.86	0.93	1.50	11.06	33.79	8.95	5.67	0.80	0.23	0.09	
6	0.01	15.30	15.87	0.82	3.57	18.72	24.84	16.44	5.67	0.82	0.23	0.09	
7	0.01	8.25	19.86	0.95	2.70	17.01	18.15	14.77	5.13	0.90	0.23	0.09	
8	0.04	3.75	52.90	2.87	2.17	17.01	21.00	11.59	5.67	0.95	0.23	0.07	
9	0.17	2.35	43.35	3.05	1.70	80.85	21.00	13.71	4.85	0.87	0.21	0.07	
10	0.30	1.50	24.84	4.57	1.70	128.60	30.24	12.12	4.02	0.72	0.21	0.07	
11	0.70	0.95	19.86	5.40	1.90	90.75	26.12	12.12	4.02	0.60	0.21	0.07	
12	7.90	0.65	18.15	2.87	2.35	40.90	33.08	12.12	4.02	0.52	0.19	0.05	
13	3.40	0.50	17.01	1.60	3.05	20.43	30.95	11.59	4.02	0.35	0.19	0.05	
14	1.30	0.40	21.00	1.00	3.75	13.71	22.28	11.06	3.40	0.35	0.19	0.04	
15	0.85	0.27	16.44	0.72	8.95	11.59	18.72	11.06	2.70	0.35	0.17	0.04	
16	0.48	0.09	12.12	0.40	23.56	7.90	14.77	12.65	2.70	0.35	0.17	0.04	
17	0.63	0.17	9.65	0.11	15.30	11.06	13.71	14.24	3.22	0.55	0.17	0.04	
18	0.97	0.25	6.23	0.17	10.00	116.00	10.00	11.59	3.22	0.78	0.15	0.03	
19	2.52	0.19	5.67	0.32	6.23	90.75	9.30	10.00	3.05	0.85	0.15	0.02	
20	3.22	0.40	5.67	2.00	4.30	54.80	8.95	9.65	2.87	0.93	0.13	0.02	
21	4.02	1.70	5.40	2.00	3.05	49.30	8.60	9.30	2.52	0.95	0.13	0.02	
22	3.05	2.00	4.02	1.80	2.52	45.05	7.90	9.30	2.00	0.95	0.11	0.02	
23	1.70	2.35	2.87	1.70	2.00	51.00	7.55	9.65	0.93	1.90	0.11	0.02	
24	1.10	2.87	2.00	1.50	3.05	47.60	7.20	8.60	0.90	1.50	0.09	0.02	
25	0.82	5.67	1.90	1.30	3.75	67.50	6.50	13.71	0.85	1.40	0.09	0.02	
26	0.32	10.53	1.90	0.97	4.02	56.70	14.77	8.60	0.75	0.85	0.09	0.03	
27	0.27	13.71	1.80	0.93	3.75	37.70	12.12	8.25	0.70	0.50	0.09	0.03	
28	0.17	8.25	1.50	0.87	3.40	49.30	16.44	7.90	0.75	0.32	0.09	0.04	
29	0.17	7.20	0.82	1.00	2.87	43.35	18.72	7.20	0.80	0.32		0.04	
30	0.15	5.95	0.90	1.90	2.70	55.75	15.87	6.23	0.48	0.32		0.04	
31		11.06		1.90	2.35		13.71		0.50	0.30		0.04	
TOTAL	34.32	107.42	639.12	50.90	135.66	1273.46	786.93	322.76	98.92	23.57	5.00	1.56	3479.62 CMSDAY
MEAN	1.14	3.47	21.30	1.64	4.38	42.45	25.38	10.76	3.19	0.76	0.18	0.05	9.53 CMS
MAX	7.90	15.30	142.40	5.40	23.56	128.60	153.80	16.44	6.50	1.90	0.30	0.09	153.80 CMS
MIN	0.01	0.05	0.82	0.11	1.50	2.00	6.50	6.23	0.48	0.30	0.09	0.02	0.01 CMS
RUNOFF	2.965	9.281	55.220	4.398	11.721	110.027	67.991	27.886	8.547	2.036	0.432	0.135	300.639 MCM

MOMENTARY PEAK 278.50 CMS, AT 289.30 M (MSL), AT 18.00 HOURS, ON JUN 1, 1982
RUNOFF YIELD 5.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 156.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

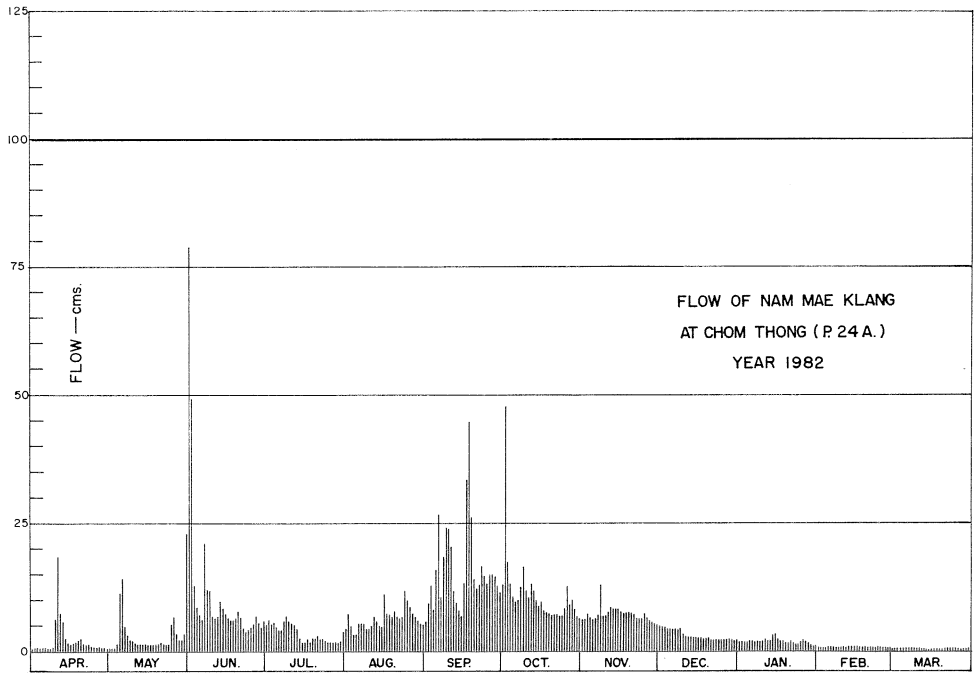
NAM MAE KLANG AT CHOM THONG, CHIANG MAI (P.24A)

LOCATION	LAT. 18°-25'-01" N., LONG. 98°-40'-29" E., ON LEFT BANK AT PRACHA UTHIT BRIDGE, AMPHOE CHOM THONG, CHIANG MAI.
DRAINAGE AREA	460 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+274.693 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 NEAR THE GAGE OBSERVER'S HOUSE, B.M.2 ON LEFT BANK AT ABUTMENT.
ELEVATION	B.M.1 =+277.954 M. (M.S.L.), B.M.2 =+280.309 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SILTING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 95 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	275.46	275.46	278.00	275.78	275.75	275.80	276.16	275.85	275.77	275.61	275.49	275.43	
2	275.45	275.46	276.80	275.83	275.89	275.95	277.27	275.83	275.78	275.61	275.48	275.42	
3	275.45	275.45	276.13	275.79	275.75	276.11	276.35	275.91	275.77	275.61	275.47	275.42	
4	275.45	275.45	275.95	275.82	275.67	275.97	276.17	275.84	275.75	275.60	275.47	275.43	
5	275.46	276.03	275.90	275.76	275.65	276.25	276.07	275.83	275.75	275.60	275.46	275.43	
6	275.46	276.20	275.86	275.75	275.79	276.65	276.00	275.85	275.75	275.59	275.46	275.44	
7	275.46	275.79	276.48	275.71	275.80	276.05	276.03	275.88	275.75	275.60	275.47	275.43	
8	275.47	275.70	276.09	275.83	275.80	276.31	276.06	276.35	275.75	275.59	275.46	275.43	
9	275.47	275.64	276.11	275.88	275.74	276.57	276.28	275.85	275.75	275.58	275.47	275.43	
10	275.77	275.62	275.90	275.83	275.73	276.56	276.09	275.88	275.69	275.58	275.46	275.43	
11	276.39	275.58	275.85	275.80	275.77	276.45	276.05	275.91	275.67	275.62	275.45	275.44	
12	275.89	275.55	275.88	275.79	275.86	276.10	276.16	275.94	275.66	275.61	275.45	275.43	
13	275.84	275.54	276.02	275.76	275.84	275.98	276.12	275.95	275.66	275.57	275.45	275.41	
14	275.67	275.53	275.98	275.65	275.79	275.92	276.03	275.95	275.66	275.69	275.46	275.41	
15	275.61	275.53	275.92	275.61	275.76	275.87	275.98	275.95	275.66	275.69	275.44	275.40	
16	275.58	275.52	275.88	275.61	276.07	276.12	276.02	275.92	275.65	275.67	275.45	275.39	
17	275.61	275.56	275.86	275.62	275.93	276.86	275.94	275.91	275.65	275.59	275.44	275.40	
18	275.60	275.52	275.86	275.60	275.89	277.19	275.92	275.91	275.64	275.60	275.43	275.41	
19	275.59	275.55	275.82	275.64	275.86	276.59	275.90	275.89	275.64	275.58	275.44	275.41	
20	275.64	275.57	275.92	275.63	275.93	276.30	275.89	275.89	275.65	275.55	275.44	275.39	
21	275.56	275.59	275.85	275.68	275.86	276.09	275.88	275.87	275.64	275.60	275.43	275.40	
22	275.52	275.55	275.76	275.63	275.85	276.13	275.88	275.86	275.63	275.55	275.44	275.41	
23	275.50	275.53	275.72	275.64	275.85	276.28	275.88	275.86	275.63	275.53	275.44	275.43	
24	275.50	275.53	275.73	275.62	276.10	276.23	275.87	275.85	275.63	275.53	275.44	275.41	
25	275.49	275.76	275.76	275.60	276.03	276.16	275.91	275.91	275.63	275.59	275.44	275.40	
26	275.48	275.88	275.78	275.59	275.97	276.23	276.14	275.86	275.63	275.61	275.44	275.40	
27	275.48	275.68	275.87	275.58	275.90	276.22	275.98	275.84	275.63	275.59	275.44	275.38	
28	275.47	275.63	275.82	275.58	275.88	276.23	276.02	275.83	275.63	275.51	275.44	275.38	
29	275.48	275.61	275.76	275.57	275.85	276.16	275.91	275.81	275.63	275.50		275.39	
30	275.47	275.67	275.80	275.58	275.81	276.10	275.87	275.79	275.62	275.52		275.41	
31		276.45		275.71	275.79		275.86		275.62	275.52		275.42	
MEAN	275.58	275.65	276.00	275.69	275.84	276.25	276.05	275.89	275.68	275.59	275.45	275.41	
MAX	276.39	276.45	278.00	275.88	276.10	277.19	277.27	276.35	275.78	275.69	275.49	275.44	278.00
MIN	275.45	275.45	275.72	275.57	275.65	275.80	275.86	275.79	275.62	275.50	275.43	275.38	275.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 278.79 M (MSL), AT 4.00 HOURS, ON JUN 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 274.69 M (MSL), RIVER BED 275.26 M (MSL)
LEFT BANK ELEVATION 280.42 M (MSL)
RIGHT BANK ELEVATION 280.39 M (MSL), DRAINAGE AREA 460 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.76	78.50	4.94	4.40	5.30	13.00	6.25	4.76	1.97	0.94	0.58	
2	0.70	0.76	31.00	5.87	7.01	8.25	47.80	5.87	4.94	1.97	0.88	0.52	
3	0.70	0.70	12.25	5.12	4.40	11.75	17.75	7.41	4.76	1.97	0.82	0.52	
4	0.70	0.70	8.25	5.68	2.99	8.67	13.25	6.06	4.40	1.80	0.82	0.58	
5	0.76	9.96	7.20	4.58	2.65	15.25	10.84	5.87	4.40	1.80	0.76	0.58	
6	0.76	14.00	6.44	4.40	5.12	26.50	9.30	6.25	4.40	1.72	0.76	0.64	
7	0.76	5.12	21.40	3.68	5.30	10.40	9.96	6.82	4.40	1.80	0.82	0.58	
8	0.82	3.50	11.28	5.87	5.30	16.75	10.62	17.75	4.40	1.72	0.76	0.58	
9	0.82	2.48	11.75	6.82	4.22	24.10	16.00	6.25	4.40	1.64	0.82	0.58	
10	4.76	2.14	7.20	5.87	4.04	23.80	11.28	6.82	3.33	1.64	0.76	0.58	
11	18.75	1.64	6.25	5.30	4.76	20.50	10.40	7.41	2.99	2.14	0.70	0.64	
12	7.01	1.40	6.82	5.12	6.44	11.50	13.00	8.04	2.82	1.97	0.70	0.58	
13	6.06	1.32	9.74	4.58	6.06	8.88	12.00	8.25	2.82	1.56	0.70	0.46	
14	2.99	1.24	8.88	2.65	5.12	7.62	9.96	8.25	2.82	3.33	0.76	0.46	
15	1.97	1.24	7.62	1.97	4.58	6.63	8.88	8.25	2.82	3.33	0.64	0.40	
16	1.64	1.16	6.82	1.97	10.84	12.00	9.74	7.62	2.65	2.99	0.70	0.37	
17	1.97	1.48	6.44	2.14	7.83	32.80	8.04	7.41	2.65	1.72	0.64	0.40	
18	1.80	1.16	6.44	1.80	7.01	44.60	7.62	7.41	2.48	1.80	0.58	0.46	
19	1.72	1.40	5.68	2.48	6.44	24.70	7.20	7.01	2.48	1.64	0.64	0.46	
20	2.48	1.56	7.62	2.31	7.83	16.50	7.01	7.01	2.65	1.40	0.64	0.37	
21	1.48	1.72	6.25	3.16	6.44	11.28	6.82	6.63	2.48	1.80	0.58	0.40	
22	1.16	1.40	4.58	2.31	6.25	12.25	6.82	6.44	2.31	1.40	0.64	0.46	
23	1.00	1.24	3.86	2.48	6.25	16.00	6.82	6.44	2.31	1.24	0.64	0.58	
24	1.00	1.24	4.04	2.14	11.50	14.75	6.63	6.25	2.31	1.24	0.64	0.46	
25	0.94	4.58	4.58	1.80	9.96	13.00	7.41	7.41	2.31	1.72	0.64	0.40	
26	0.88	6.82	4.94	1.72	8.67	14.75	12.50	6.44	2.31	1.97	0.64	0.40	
27	0.88	3.16	6.63	1.64	7.20	14.50	8.88	6.06	2.31	1.72	0.64	0.34	
28	0.82	2.31	5.68	1.64	6.82	14.75	9.74	5.87	2.31	1.08	0.64	0.34	
29	0.88	1.97	4.58	1.56	6.25	13.00	7.41	5.49	2.31	1.00		0.37	
30	0.82	2.99	5.30	1.64	5.49	11.50	6.63	5.12	2.14	1.16		0.46	
31		20.50		3.68	5.12		6.44		2.14	1.16		0.52	
TOTAL	67.79	101.65	318.02	106.92	192.29	472.28	339.75	214.16	96.61	55.40	19.90	15.07	1999.84 CMSDAY
MEAN	2.26	3.28	10.60	3.45	6.20	15.74	10.96	7.14	3.12	1.79	0.71	0.49	5.48 CMS
MAX	18.75	20.50	78.50	6.82	11.50	44.60	47.80	17.75	4.94	3.33	0.94	0.64	78.50 CMS
MIN	0.70	0.70	3.86	1.56	2.65	5.30	6.44	5.12	2.14	1.00	0.58	0.34	0.34 CMS
RUNOFF	5.857	8.783	27.477	9.238	16.614	40.805	29.354	18.503	8.347	4.787	1.719	1.302	172.786 MCM

MOMENTARY PEAK 117.50 CMS, AT 278.79 M (MSL), AT 4.00 HOURS, ON JUN 1, 1982
RUNOFF YIELD 11.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 255.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

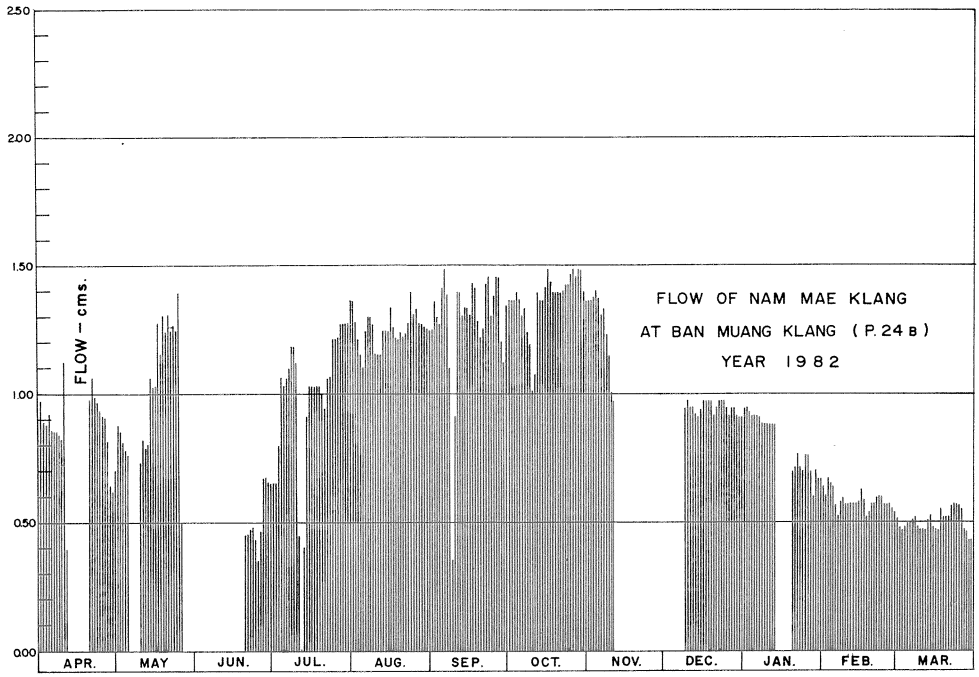
NAM MAE KLANG AT BAN MUANG KLANG, CHIANG MAI (P.24B)

LOCATION	LAT. 18°-28'-05" N., LONG. 98°-39'-48" E., ON LEFT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM THE WEIR BUILT BY THE LOCAL RESIDENTS AT BAN MUANG KLANG, AMPHOE CHOM THONG CHIANG MAI.
DRAINAGE AREA	-
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+291.600 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF INSPECTOR'S HOUSE AT PAK MUANG LUANG.
ELEVATION	+291.201 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SILTING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 76 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.19	292.16	291.70	292.08	292.32	292.28	292.29	292.32	291.70	292.18	292.08	292.03	
2	292.17	292.15	291.70	292.08	292.29	292.32	292.27	292.32	291.70	292.18	292.06	292.01	
3	292.16	292.14	291.70	292.13	292.27	292.30	292.29	292.32	291.70	292.17	292.09	292.01	
4	292.17	292.12	291.70	292.22	292.25	292.29	292.32	292.33	291.70	292.17	292.08	292.01	
5	292.15	292.12	291.70	292.21	292.23	292.34	292.32	292.32	291.70	292.17	292.07	292.02	
6	292.15	291.70	291.70	292.22	292.28	292.36	292.35	292.30	291.70	292.17	292.05	292.02	
7	292.15	291.70	291.70	292.24	292.30	292.31	292.35	292.31	291.70	292.17	292.03	292.02	
8	292.15	291.70	291.70	292.26	292.30	292.22	292.36	292.28	291.70	292.16	292.05	292.03	
9	292.14	291.70	291.70	292.26	292.29	291.95	292.33	292.26	292.18	292.16	292.06	292.02	
10	292.24	292.11	291.70	292.24	292.25	292.23	292.20	292.20	292.19	292.16	292.05	292.01	
11	291.97	292.14	291.70	292.00	292.25	292.33	292.22	292.19	292.18	292.16	292.05	292.01	
12	291.70	292.13	291.70	292.05	292.25	292.33	292.33	291.70	292.18	292.16	292.05	292.01	
13	291.70	292.14	291.70	292.08	292.28	292.30	292.32	291.70	292.17	292.16	292.05	292.02	
14	291.70	292.22	291.70	292.17	292.28	292.31	292.32	291.70	292.17	291.70	292.05	292.03	
15	291.70	292.21	291.70	292.21	292.28	292.31	292.34	291.70	292.18	291.70	292.05	292.02	
16	291.70	292.21	291.70	292.21	292.31	292.30	292.36	291.70	292.19	291.70	292.07	292.01	
17	291.70	292.29	291.70	292.21	292.28	292.34	292.35	291.70	292.19	291.70	292.05	292.01	
18	291.70	292.25	291.70	292.21	292.27	292.33	292.33	291.70	292.19	291.70	292.03	292.04	
19	291.70	292.30	291.70	292.21	292.27	292.29	292.33	291.70	292.19	291.70	292.04	292.03	
20	292.19	292.28	291.70	292.20	292.28	292.27	292.33	291.70	292.17	291.70	292.05	292.03	
21	292.22	292.30	292.00	292.18	292.27	292.28	292.33	291.70	292.18	292.10	292.05	292.03	
22	292.20	292.28	292.01	292.22	292.28	292.34	292.33	291.70	292.19	292.12	292.06	292.04	
23	292.19	292.29	292.01	292.22	292.30	292.35	292.34	291.70	292.19	292.11	292.06	292.05	
24	292.18	292.28	291.99	292.25	292.33	292.30	292.34	291.70	292.19	292.10	292.06	292.05	
25	292.17	292.33	291.95	292.27	292.30	292.33	292.35	291.70	292.18	292.12	292.06	292.05	
26	292.17	292.02	292.01	292.27	292.31	292.35	292.36	291.70	292.17	292.12	292.05	292.04	
27	292.14	291.70	292.09	292.29	292.29	292.35	292.35	291.70	292.18	292.10	292.05	292.01	
28	292.08	291.70	292.09	292.29	292.29	292.26	292.36	291.70	292.18	292.06	292.04	292.01	
29	292.07	291.70	292.08	292.29	292.29	292.24	292.36	291.70	292.17	292.10		291.98	
30	292.11	291.70	292.08	292.29	292.28	292.31	292.34	291.70	292.17	292.09		291.99	
31		291.70		292.32	292.28		292.32		292.17	292.09		291.99	
MEAN	292.03	292.06	291.81	292.21	292.28	292.29	292.33	291.92	292.06	292.04	292.05	292.02	
MAX	292.24	292.33	292.09	292.32	292.33	292.36	292.36	292.33	292.19	292.18	292.09	292.05	292.36
MIN	291.70	291.70	291.70	292.00	292.23	291.95	292.20	291.70	291.70	291.70	292.03	291.98	291.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 292.38 M (MSL), AT 6.00 HOURS, ON OCT 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 291.60 M (MSL), RIVER BED 291.56 M (MSL)
LEFT BANK ELEVATION 293.65 M (MSL)
RIGHT BANK ELEVATION 293.45 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.97	0.88	0.00	0.65	1.36	1.24	1.27	1.36	0.00	0.94	0.65	0.52	
2	0.91	0.85	0.00	0.65	1.27	1.36	1.21	1.36	0.00	0.94	0.60	0.48	
3	0.88	0.82	0.00	0.79	1.21	1.30	1.27	1.36	0.00	0.91	0.67	0.48	
4	0.91	0.76	0.00	1.06	1.15	1.27	1.36	1.39	0.00	0.91	0.65	0.48	
5	0.85	0.76	0.00	1.03	1.09	1.42	1.36	1.36	0.00	0.91	0.63	0.50	
6	0.85	0.00	0.00	1.06	1.24	1.48	1.45	1.30	0.00	0.91	0.58	0.50	
7	0.85	0.00	0.00	1.12	1.30	1.33	1.45	1.33	0.00	0.91	0.52	0.50	
8	0.85	0.00	0.00	1.18	1.30	1.06	1.48	1.24	0.00	0.88	0.58	0.52	
9	0.82	0.00	0.00	1.18	1.27	0.35	1.39	1.18	0.94	0.88	0.60	0.50	
10	1.12	0.73	0.00	1.12	1.15	1.09	1.00	1.00	0.97	0.88	0.58	0.48	
11	0.39	0.82	0.00	0.45	1.15	1.39	1.06	0.97	0.94	0.88	0.58	0.48	
12	0.00	0.79	0.00	0.58	1.15	1.39	1.39	0.00	0.94	0.88	0.58	0.48	
13	0.00	0.82	0.00	0.65	1.24	1.30	1.36	0.00	0.91	0.88	0.58	0.50	
14	0.00	1.06	0.00	0.91	1.24	1.33	1.36	0.00	0.91	0.00	0.58	0.52	
15	0.00	1.03	0.00	1.03	1.24	1.33	1.42	0.00	0.94	0.00	0.58	0.50	
16	0.00	1.03	0.00	1.03	1.33	1.30	1.48	0.00	0.97	0.00	0.63	0.48	
17	0.00	1.27	0.00	1.03	1.24	1.42	1.45	0.00	0.97	0.00	0.58	0.48	
18	0.00	1.15	0.00	1.03	1.21	1.39	1.39	0.00	0.97	0.00	0.52	0.55	
19	0.00	1.30	0.00	1.03	1.21	1.27	1.39	0.00	0.97	0.00	0.55	0.52	
20	0.97	1.24	0.00	1.00	1.24	1.21	1.39	0.00	0.91	0.00	0.58	0.52	
21	1.06	1.30	0.45	0.94	1.21	1.24	1.39	0.00	0.94	0.70	0.58	0.52	
22	1.00	1.24	0.48	1.06	1.24	1.42	1.39	0.00	0.97	0.76	0.60	0.55	
23	0.97	1.27	0.48	1.06	1.30	1.45	1.42	0.00	0.97	0.73	0.60	0.58	
24	0.94	1.24	0.43	1.15	1.39	1.30	1.42	0.00	0.97	0.70	0.60	0.58	
25	0.91	1.39	0.35	1.21	1.30	1.39	1.45	0.00	0.94	0.76	0.60	0.58	
26	0.91	0.50	0.48	1.21	1.33	1.45	1.48	0.00	0.91	0.76	0.58	0.55	
27	0.82	0.00	0.67	1.27	1.27	1.45	1.45	0.00	0.94	0.70	0.58	0.48	
28	0.65	0.00	0.67	1.27	1.27	1.18	1.48	0.00	0.94	0.60	0.55	0.48	
29	0.63	0.00	0.65	1.27	1.27	1.12	1.48	0.00	0.91	0.70		0.41	
30	0.73	0.00	0.65	1.27	1.24	1.33	1.42	0.00	0.91	0.67		0.43	
31		0.00		1.36	1.24		1.36		0.91	0.67		0.43	
TOTAL	18.99	22.25	5.31	31.65	38.65	38.56	42.67	13.85	21.65	19.46	16.51	15.58	285.13 CMSDAY
MEAN	0.63	0.72	0.18	1.02	1.25	1.29	1.38	0.46	0.70	0.63	0.59	0.50	0.78 CMS
MAX	1.12	1.39	0.67	1.36	1.39	1.48	1.48	1.39	0.97	0.94	0.67	0.58	1.48 CMS
MIN	0.00	0.00	0.00	0.45	1.09	0.35	1.00	0.00	0.00	0.00	0.52	0.41	0.00 CMS
RUNOFF	1.641	1.922	0.459	2.735	3.339	3.332	3.687	1.197	1.871	1.681	1.426	1.346	24.635 MCM

MOMENTARY PEAK 1.54 CMS, AT 292.38 M (MSL), AT 6.00 HOURS, ON OCT 9, 1982
RUNOFF YIELD 0.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 0.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

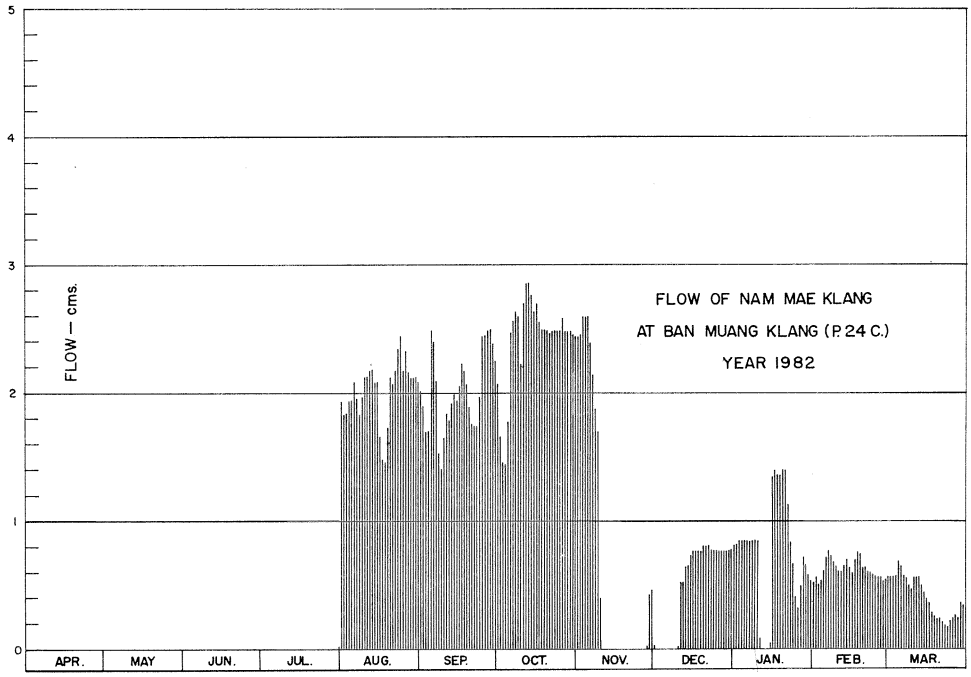
NAM MAE KLANG AT BAN MUANG KLANG, CHIANG MAI (P.24C)

LOCATION	LAT. 18°-28'-03" N., LONG. 98°-39'-41" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM THE WEIR BUILT BY THE LOCAL RESIDENTS AT BAN MUANG KLANG, AMPHOE CHOM THONG, CHAING MAI.
DRAINAGE AREA	-
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+286.480 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF INSPECTOR'S HOUSE AT PLAK MUANG LUANG.
ELEVATION	+291.201 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 56 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.31	286.31	286.31	286.31	287.13	287.14	287.15	287.23	286.31	286.88	286.81	286.82	
2	286.31	286.31	286.31	286.31	287.11	287.12	287.05	287.23	286.31	286.88	286.82	286.82	
3	286.31	286.31	286.31	286.31	287.11	287.07	287.03	287.26	286.31	286.89	286.80	286.82	
4	286.31	286.31	286.31	286.31	287.13	287.08	287.03	287.26	286.31	286.89	286.81	286.82	
5	286.31	286.31	286.31	286.31	287.13	287.24	287.08	287.26	286.31	286.89	286.83	286.85	
6	286.31	286.31	286.31	286.31	287.16	287.21	287.23	287.21	286.31	286.89	286.85	286.84	
7	286.31	286.31	286.31	286.31	287.13	287.13	287.25	287.16	286.31	286.89	286.87	286.82	
8	286.31	286.31	286.31	286.31	287.11	287.05	287.27	287.11	286.31	286.89	286.86	286.81	
9	286.31	286.31	286.31	286.31	287.13	287.02	287.26	287.03	286.31	286.89	286.85	286.80	
10	286.31	286.31	286.31	286.31	287.17	287.07	287.19	286.31	286.31	286.89	286.84	286.79	
11	286.31	286.31	286.31	286.31	287.17	287.11	287.28	286.31	286.81	286.31	286.83	286.82	
12	286.31	286.31	286.31	286.31	287.18	287.10	287.31	286.31	286.81	286.31	286.82	286.82	
13	286.31	286.31	286.31	286.31	287.18	287.12	287.31	286.31	286.84	286.31	286.84	286.82	
14	286.31	286.31	286.31	286.31	287.16	287.14	287.29	286.31	286.84	286.31	286.85	286.80	
15	286.31	286.31	286.31	286.31	287.16	287.13	287.27	286.31	286.86	286.31	286.84	286.78	
16	286.31	286.31	286.31	286.31	287.08	287.15	287.28	286.31	286.87	287.01	286.82	286.77	
17	286.31	286.31	286.31	286.31	287.04	287.19	287.25	286.31	286.87	287.02	286.85	286.76	
18	286.31	286.31	286.31	286.31	287.03	287.17	287.24	286.31	286.87	287.01	286.87	286.73	
19	286.31	286.31	286.31	286.31	287.07	287.13	287.24	286.31	286.87	287.01	286.86	286.72	
20	286.31	286.31	286.31	286.31	287.17	287.12	287.24	286.31	286.88	287.02	286.84	286.72	
21	286.31	286.31	286.31	286.31	287.16	287.09	287.23	286.31	286.88	287.02	286.84	286.72	
22	286.31	286.31	286.31	286.31	287.18	287.09	287.24	286.31	286.88	286.97	286.83	286.71	
23	286.31	286.31	286.31	286.31	287.20	287.09	287.24	286.31	286.87	286.90	286.83	286.70	
24	286.31	286.31	286.31	286.31	287.23	287.15	287.24	286.31	286.87	286.86	286.82	286.69	
25	286.31	286.31	286.31	286.31	287.18	287.23	287.24	286.31	286.87	286.76	286.82	286.71	
26	286.31	286.31	286.31	286.31	287.21	287.23	287.26	286.31	286.87	286.74	286.82	286.72	
27	286.31	286.31	286.31	286.31	287.18	287.24	287.23	286.31	286.87	286.81	286.82	286.73	
28	286.31	286.31	286.31	286.31	287.17	287.24	287.24	286.31	286.87	286.86	286.81	286.72	
29	286.31	286.31	286.31	286.31	287.17	287.22	287.24	286.78	286.87	286.84		286.76	
30	286.31	286.31	286.31	286.31	287.17	287.19	287.23	286.79	286.87	286.82		286.75	
31		286.31		286.31	287.16		287.23		286.87	286.81		286.74	
MEAN	286.31	286.31	286.31	286.31	287.15	287.14	287.22	286.61	286.68	286.80	286.83	286.77	
MAX	286.31	286.31	286.31	286.31	287.23	287.24	287.31	287.26	286.88	287.02	286.87	286.85	287.31
MIN	286.31	286.31	286.31	286.31	287.03	287.02	287.03	286.31	286.31	286.31	286.80	286.69	286.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 287.34 M (MSL), AT 18.00 HOURS, ON OCT 13, 1982
ZERO GAGE AT BOTTOM ELEVATION 286.48 M (MSL), RIVER BED 286.41 M (MSL)
LEFT BANK ELEVATION 288.56 M (MSL)
RIGHT BANK ELEVATION 288.42 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	1.93	1.98	2.03	2.43	0.00	0.80	0.52	0.56	
2	0.00	0.00	0.00	0.00	1.83	1.88	1.54	2.43	0.00	0.80	0.56	0.56	
3	0.00	0.00	0.00	0.00	1.83	1.64	1.44	2.58	0.00	0.84	0.48	0.56	
4	0.00	0.00	0.00	0.00	1.93	1.68	1.44	2.58	0.00	0.84	0.52	0.56	
5	0.00	0.00	0.00	0.00	1.93	2.48	1.68	2.58	0.00	0.84	0.60	0.68	
6	0.00	0.00	0.00	0.00	2.07	2.32	2.43	2.32	0.00	0.84	0.68	0.64	
7	0.00	0.00	0.00	0.00	1.93	1.93	2.53	2.07	0.00	0.84	0.76	0.56	
8	0.00	0.00	0.00	0.00	1.83	1.54	2.63	1.83	0.00	0.84	0.72	0.52	
9	0.00	0.00	0.00	0.00	1.93	1.40	2.58	1.44	0.00	0.84	0.68	0.48	
10	0.00	0.00	0.00	0.00	2.12	1.64	2.22	0.00	0.00	0.84	0.64	0.45	
11	0.00	0.00	0.00	0.00	2.12	1.83	2.69	0.00	0.52	0.00	0.60	0.56	
12	0.00	0.00	0.00	0.00	2.17	1.78	2.84	0.00	0.52	0.00	0.56	0.56	
13	0.00	0.00	0.00	0.00	2.17	1.88	2.84	0.00	0.64	0.00	0.64	0.56	
14	0.00	0.00	0.00	0.00	2.07	1.98	2.74	0.00	0.64	0.00	0.68	0.48	
15	0.00	0.00	0.00	0.00	2.07	1.93	2.63	0.00	0.72	0.00	0.64	0.42	
16	0.00	0.00	0.00	0.00	1.68	2.03	2.69	0.00	0.76	1.35	0.56	0.39	
17	0.00	0.00	0.00	0.00	1.49	2.22	2.53	0.00	0.76	1.40	0.68	0.36	
18	0.00	0.00	0.00	0.00	1.44	2.12	2.48	0.00	0.76	1.35	0.76	0.27	
19	0.00	0.00	0.00	0.00	1.64	1.93	2.48	0.00	0.76	1.35	0.72	0.24	
20	0.00	0.00	0.00	0.00	2.12	1.88	2.48	0.00	0.80	1.40	0.64	0.24	
21	0.00	0.00	0.00	0.00	2.07	1.73	2.43	0.00	0.80	1.40	0.64	0.24	
22	0.00	0.00	0.00	0.00	2.17	1.73	2.48	0.00	0.80	1.17	0.60	0.21	
23	0.00	0.00	0.00	0.00	2.27	1.73	2.48	0.00	0.76	0.88	0.60	0.18	
24	0.00	0.00	0.00	0.00	2.43	2.03	2.48	0.00	0.76	0.72	0.56	0.16	
25	0.00	0.00	0.00	0.00	2.17	2.43	2.48	0.00	0.76	0.36	0.56	0.21	
26	0.00	0.00	0.00	0.00	2.32	2.43	2.58	0.00	0.76	0.30	0.56	0.24	
27	0.00	0.00	0.00	0.00	2.17	2.48	2.43	0.00	0.76	0.52	0.56	0.27	
28	0.00	0.00	0.00	0.00	2.12	2.48	2.48	0.00	0.76	0.72	0.52	0.24	
29	0.00	0.00	0.00	0.00	2.12	2.37	2.48	0.42	0.76	0.64		0.36	
30	0.00	0.00	0.00	0.00	2.12	2.22	2.43	0.45	0.76	0.56		0.33	
31		0.00		0.00	2.07		2.43		0.76	0.52		0.30	
TOTAL	0.00	0.00	0.00	0.00	62.33	59.70	74.10	21.13	15.32	22.96	17.24	12.39	285.17 CMSDAY
MEAN	0.00	0.00	0.00	0.00	2.01	1.99	2.39	0.70	0.49	0.74	0.62	0.40	0.78 CMS
MAX	0.00	0.00	0.00	0.00	2.43	2.48	2.84	2.58	0.80	1.40	0.76	0.68	2.84 CMS
MIN	0.00	0.00	0.00	0.00	1.44	1.40	1.44	0.00	0.00	0.00	0.48	0.16	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	5.385	5.158	6.402	1.826	1.324	1.984	1.490	1.070	24.639 MCM

MOMENTARY PEAK 3.00 CMS, AT 287.34 M (MSL), AT 18.00 HOURS, ON OCT 13, 1982
RUNOFF YIELD 0.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 0.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

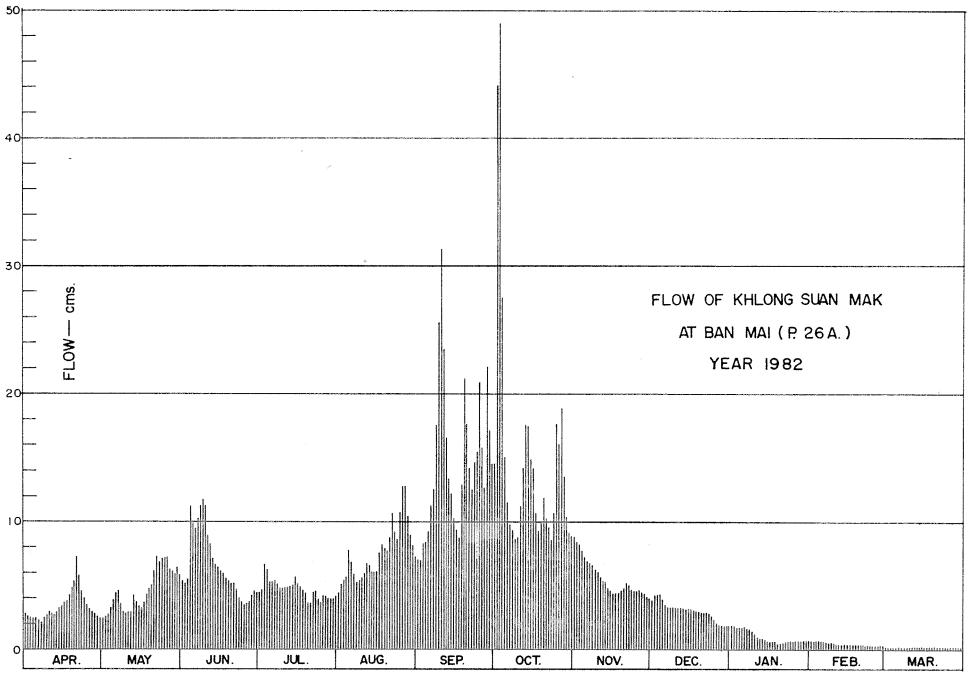
KHLONG SUAN MAK AT BAN MAI, KAMPHAENG PHET (P.26A)

LOCATION	LAT. 16°-26'-57" N., LONG. 99°-26'-27" E., ON RIGHT BANK ABOUT 515 METERS DOWNSTREAM FROM THA KRADAN WEIR AT BAN MAI, TAMBON NA BO KHUM, AMPHOE MUANG, KAMPHAENG PHET.
DRAINAGE AREA	969 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING
ELEVATION	+6.144 M. (A.D.)
GAGE READING FREQUENCY	RECORDING
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY THA KRADAN WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.02	0.21	0.15	0.14	0.30	0.65	0.42	0.11	-0.02	-0.16	-0.24	
2	0.04	0.02	0.20	0.20	0.18	0.30	1.35	0.41	0.14	-0.02	-0.16	-0.28	
3	0.03	0.04	0.20	0.29	0.21	0.39	1.48	0.37	0.14	-0.03	-0.15	-0.29	
4	0.03	0.06	0.54	0.27	0.21	0.39	0.90	0.34	0.14	-0.03	-0.15	-0.29	
5	0.03	0.10	0.49	0.20	0.36	0.43	0.69	0.31	0.12	-0.03	-0.15	-0.30	
6	0.02	0.14	0.46	0.20	0.30	0.52	0.56	0.30	0.10	-0.02	-0.16	-0.30	
7	0.01	0.16	0.50	0.21	0.24	0.57	0.49	0.29	0.08	-0.02	-0.16	-0.31	
8	0.02	0.10	0.54	0.20	0.21	0.73	0.45	0.28	0.08	-0.03	-0.17	-0.32	
9	0.04	0.05	0.55	0.18	0.21	0.99	0.41	0.27	0.08	-0.06	-0.17	-0.33	
10	0.05	0.05	0.54	0.17	0.21	1.13	0.42	0.25	0.08	-0.10	-0.17	-0.33	
11	0.05	0.05	0.42	0.17	0.23	0.89	0.53	0.22	0.08	-0.12	-0.18	-0.34	
12	0.04	0.05	0.38	0.18	0.29	0.73	0.61	0.21	0.08	-0.12	-0.19	-0.34	
13	0.05	0.13	0.32	0.24	0.29	0.62	0.75	0.19	0.07	-0.12	-0.19	-0.34	
14	0.07	0.12	0.29	0.24	0.25	0.57	0.75	0.17	0.07	-0.13	-0.19	-0.34	
15	0.09	0.10	0.28	0.22	0.25	0.50	0.67	0.15	0.07	-0.15	-0.19	-0.34	
16	0.10	0.08	0.26	0.20	0.24	0.46	0.64	0.21	0.07	-0.16	-0.20	-0.34	
17	0.11	0.10	0.24	0.18	0.34	0.42	0.52	0.21	0.07	-0.16	-0.20	-0.34	
18	0.14	0.13	0.22	0.17	0.38	0.52	0.45	0.20	0.06	-0.18	-0.21	-0.34	
19	0.17	0.16	0.20	0.16	0.37	0.87	0.53	0.22	0.06	-0.18	-0.21	-0.34	
20	0.21	0.18	0.20	0.12	0.36	0.71	0.56	0.23	0.06	-0.18	-0.21	-0.35	
21	0.26	0.26	0.19	0.09	0.39	0.64	0.51	0.19	0.05	-0.18	-0.22	-0.35	
22	0.21	0.32	0.17	0.13	0.52	0.58	0.46	0.18	0.05	-0.17	-0.23	-0.35	
23	0.15	0.29	0.13	0.15	0.44	0.65	0.41	0.17	0.05	-0.17	-0.23	-0.35	
24	0.12	0.31	0.11	0.12	0.41	0.67	0.49	0.16	0.04	-0.17	-0.23	-0.35	
25	0.09	0.32	0.10	0.11	0.51	0.86	0.75	0.16	0.02	-0.17	-0.23	-0.35	
26	0.06	0.32	0.10	0.13	0.59	0.69	0.70	0.16	0.01	-0.16	-0.23	-0.35	
27	0.06	0.27	0.11	0.13	0.59	0.59	0.79	0.15	-0.02	-0.16	-0.22	-0.35	
28	0.05	0.26	0.13	0.12	0.51	0.90	0.62	0.14	-0.02	-0.15	-0.22	-0.35	
29	0.04	0.24	0.16	0.12	0.44	0.74	0.51	0.13	-0.02	-0.15		-0.36	
30	0.03	0.27	0.15	0.12	0.39	0.65	0.44	0.12	-0.02	-0.15		-0.36	
31		0.23		0.12	0.34		0.42		-0.02	-0.16		-0.36	
MEAN	0.08	0.16	0.28	0.17	0.34	0.63	0.63	0.23	0.06	-0.12	-0.19	-0.33	
MAX	0.26	0.32	0.55	0.29	0.59	1.13	1.48	0.42	0.14	-0.02	-0.15	-0.24	1.48
MIN	0.01	0.02	0.10	0.09	0.14	0.30	0.41	0.12	-0.02	-0.18	-0.23	-0.36	-0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.87 M (A.D), AT 2.00 HOURS, ON OCT 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.46 M (A.D)
LEFT BANK ELEVATION 4.80 M (A.D)
RIGHT BANK ELEVATION 5.98 M (A.D), DRAINAGE AREA 969 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.80	2.32	5.36	4.40	4.24	6.80	14.50	8.72	3.76	1.80	0.61	0.27	
2	2.64	2.32	5.20	5.20	4.88	6.80	41.50	8.56	4.24	1.80	0.61	0.19	
3	2.48	2.64	5.20	6.64	5.36	8.24	48.80	7.92	4.24	1.70	0.68	0.17	
4	2.48	2.96	11.20	6.32	5.36	8.24	22.00	7.44	4.24	1.70	0.68	0.17	
5	2.48	3.60	9.84	5.20	7.76	8.88	15.70	6.96	3.92	1.70	0.68	0.15	
6	2.32	4.24	9.36	5.20	6.80	10.60	11.80	6.80	3.60	1.80	0.61	0.15	
7	2.16	4.56	10.00	5.36	5.84	12.10	9.84	6.64	3.28	1.80	0.61	0.14	
8	2.32	3.60	11.20	5.20	5.36	16.90	9.20	6.48	3.28	1.70	0.55	0.12	
9	2.64	2.80	11.50	4.88	5.36	25.60	8.56	6.32	3.28	1.40	0.55	0.11	
10	2.80	2.80	11.20	4.72	5.36	31.20	8.72	6.00	3.28	1.00	0.55	0.11	
11	2.80	2.80	8.72	4.72	5.68	21.70	10.90	5.52	3.28	0.87	0.48	0.09	
12	2.64	2.80	8.08	4.88	6.64	16.90	13.30	5.36	3.28	0.87	0.42	0.09	
13	2.80	4.08	7.12	5.84	6.64	13.60	17.50	5.04	3.12	0.87	0.42	0.09	
14	3.12	3.92	6.64	5.84	6.00	12.10	17.50	4.72	3.12	0.81	0.42	0.09	
15	3.44	3.60	6.48	5.52	6.00	10.00	15.10	4.40	3.12	0.68	0.42	0.09	
16	3.60	3.28	6.16	5.20	5.84	9.36	14.20	5.36	3.12	0.61	0.35	0.09	
17	3.76	3.60	5.84	4.88	7.44	8.72	10.60	5.36	3.12	0.61	0.35	0.09	
18	4.24	4.08	5.52	4.72	8.08	10.60	9.20	5.20	2.96	0.48	0.33	0.09	
19	4.72	4.56	5.20	4.56	7.92	21.10	10.90	5.52	2.96	0.48	0.33	0.09	
20	5.36	4.88	5.20	3.92	7.76	16.30	11.80	5.68	2.96	0.48	0.33	0.08	
21	6.16	6.16	5.04	3.44	8.24	14.20	10.30	5.04	2.80	0.48	0.31	0.08	
22	5.36	7.12	4.72	4.08	10.60	12.40	9.36	4.88	2.80	0.55	0.29	0.08	
23	4.40	6.64	4.08	4.40	9.04	14.50	8.56	4.72	2.80	0.55	0.29	0.08	
24	3.92	6.96	3.76	3.92	8.56	15.10	9.84	4.56	2.64	0.55	0.29	0.08	
25	3.44	7.12	3.60	3.76	10.30	20.80	17.50	4.56	2.32	0.55	0.29	0.08	
26	2.96	7.12	3.60	4.08	12.70	15.70	16.00	4.56	2.16	0.61	0.29	0.08	
27	2.96	6.32	3.76	4.08	12.70	12.70	18.70	4.40	1.80	0.61	0.31	0.08	
28	2.80	6.16	4.08	3.92	10.30	22.00	13.60	4.24	1.80	0.68	0.31	0.08	
29	2.64	5.84	4.56	3.92	9.04	17.20	10.30	4.08	1.80	0.68		0.06	
30	2.48	6.32	4.40	3.92	8.24	14.50	9.04	3.92	1.80	0.68		0.06	
31		5.68		3.92	7.44		8.72		1.80	0.61		0.06	
TOTAL	98.72	140.88	196.62	146.64	231.48	434.84	453.54	168.96	92.68	29.71	12.36	3.29	2009.72 CMSDAY
MEAN	3.29	4.54	6.55	4.73	7.47	14.49	14.63	5.63	2.99	0.96	0.44	0.11	5.51 CMS
MAX	6.16	7.12	11.50	6.64	12.70	31.20	48.80	8.72	4.24	1.80	0.68	0.27	48.80 CMS
MIN	2.16	2.32	3.60	3.44	4.24	6.80	8.56	3.92	1.80	0.48	0.29	0.06	0.06 CMS
RUNOFF	8.529	12.172	16.988	12.670	20.000	37.570	39.186	14.598	8.008	2.567	1.068	0.284	173.640 MCM

MOMENTARY PEAK 72.20 CMS, AT 1.87 M (A.D), AT 2.00 HOURS, ON OCT 3, 1982
RUNOFF YIELD 5.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

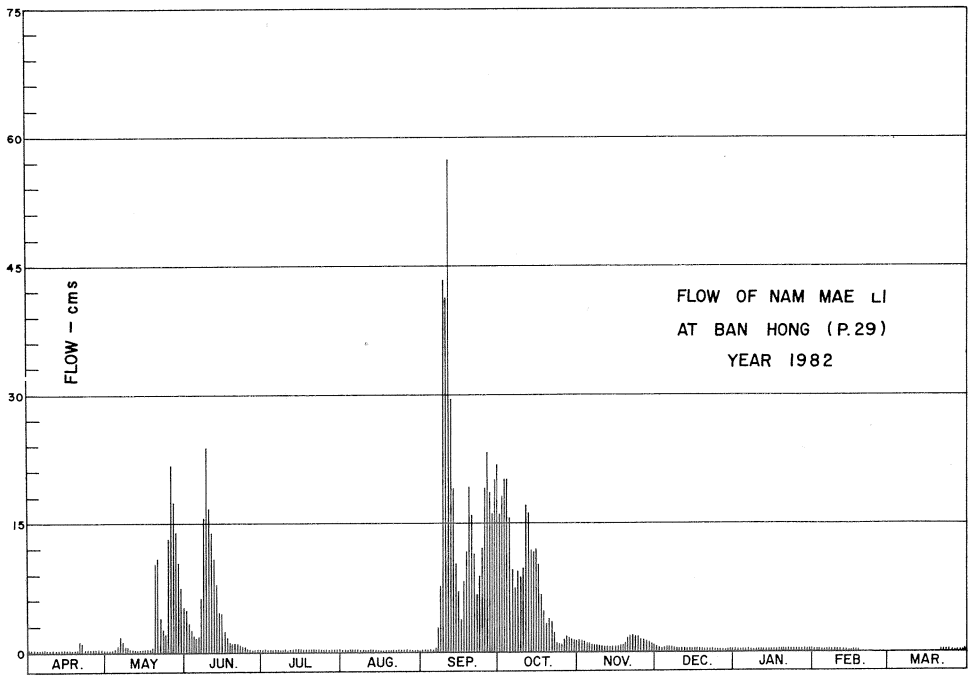
NAM MAE LI AT BAN HONG, LAMPHUN (P.29)

LOCATION	LAT. 18°-18′-35″ N., LONG. 98°-49′-35″ E., ON LEFT BANK ABOUT 10 METERS UPSTREAM FROM KAEO SONTHI BRIDGE, AMPHOE BAN HONG, LAMPHUN.
DRAINAGE AREA	1,970 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 3 METERS FROM THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.420 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACK WATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (AD), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.22	0.90	0.23	0.24	0.17	1.25	0.54	0.36	0.24	0.21	-0.29	
2	0.18	0.23	0.83	0.25	0.25	0.16	1.29	0.54	0.34	0.24	0.20	-0.29	
3	0.18	0.21	0.73	0.24	0.25	0.15	1.33	0.53	0.33	0.24	0.19	-0.29	
4	0.19	0.25	0.65	0.23	0.25	0.15	1.33	0.49	0.34	0.24	0.18	-0.29	
5	0.19	0.34	0.60	0.24	0.24	0.16	1.20	0.44	0.35	0.24	0.18	-0.29	
6	0.19	0.63	0.63	0.24	0.23	0.20	1.08	0.43	0.35	0.24	0.17	-0.29	
7	0.21	0.58	0.92	0.23	0.22	0.78	1.00	0.42	0.35	0.24	0.17	-0.29	
8	0.19	0.41	1.24	0.23	0.22	1.05	1.06	0.41	0.31	0.24	0.17	-0.29	
9	0.19	0.39	1.40	0.25	0.22	1.70	1.04	0.40	0.31	0.24	0.17	-0.29	
10	0.20	0.26	1.27	0.26	0.22	1.67	1.06	0.40	0.31	0.24	0.16	-0.29	
11	0.23	0.25	1.19	0.25	0.21	1.86	1.26	0.39	0.30	0.24	0.16	-0.13	
12	0.22	0.25	1.13	0.25	0.21	1.54	1.25	0.39	0.30	0.24	0.16	-0.15	
13	0.23	0.26	1.01	0.24	0.20	1.28	1.14	0.38	0.30	0.23	0.15	-0.16	
14	0.24	0.26	0.87	0.25	0.20	1.10	1.13	0.39	0.30	0.23	0.15	-0.17	
15	0.24	0.27	0.87	0.24	0.20	0.97	1.15	0.42	0.31	0.23	0.14	-0.18	
16	0.24	0.28	0.77	0.24	0.21	0.82	1.08	0.41	0.31	0.23	0.13	-0.19	
17	0.21	0.24	0.66	0.24	0.21	1.01	0.97	0.44	0.30	0.22	0.12	-0.21	
18	0.20	0.24	0.56	0.23	0.21	1.13	0.88	0.45	0.30	0.22	0.11	-0.22	
19	0.20	0.27	0.49	0.23	0.21	1.31	0.79	0.53	0.30	0.22	0.10	-0.23	
20	0.23	1.09	0.50	0.24	0.21	1.25	0.83	0.64	0.30	0.22	0.08	-0.23	
21	0.54	1.11	0.50	0.23	0.21	1.11	0.82	0.65	0.30	0.21	0.07	0.14	
22	0.33	0.90	0.47	0.23	0.21	0.97	0.72	0.65	0.30	0.21	0.05	0.14	
23	0.24	0.75	0.40	0.24	0.21	1.01	0.58	0.63	0.30	0.21	-0.29	0.14	
24	0.21	0.66	0.40	0.25	0.21	1.14	0.48	0.65	0.30	0.19	-0.29	0.14	
25	0.21	1.17	0.32	0.23	0.21	1.30	0.46	0.58	0.29	0.20	-0.29	0.15	
26	0.20	1.36	0.25	0.23	0.21	1.39	0.56	0.56	0.29	0.20	-0.29	0.16	
27	0.21	1.29	0.25	0.23	0.21	1.31	0.62	0.55	0.28	0.20	-0.29	0.16	
28	0.20	1.22	0.25	0.23	0.21	1.25	0.61	0.53	0.27	0.20	-0.29	0.16	
29	0.22	1.08	0.27	0.23	0.20	1.33	0.59	0.48	0.26	0.20		0.16	
30	0.21	1.01	0.25	0.23	0.19	1.36	0.56	0.42	0.25	0.20		0.16	
31		0.92		0.22	0.18		0.56		0.24	0.20		0.16	
MEAN	0.22	0.59	0.69	0.24	0.21	1.02	0.93	0.49	0.30	0.22	0.05	-0.10	
MAX	0.54	1.36	1.40	0.26	0.25	1.86	1.33	0.65	0.36	0.24	0.21	0.16	1.86
MIN	0.18	0.21	0.25	0.22	0.18	0.15	0.46	0.38	0.24	0.19	-0.29	-0.29	-0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.94 M (AD), AT 6.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (AD), RIVER BED -0.89 M (AD)
LEFT BANK ELEVATION 5.33 M (AD)
RIGHT BANK ELEVATION 5.35 M (AD), DRAINAGE AREA 1970 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.07	4.90	0.08	0.09	0.04	16.40	1.10	0.36	0.09	0.06	0.00	
2	0.04	0.08	3.78	0.10	0.10	0.03	18.16	1.10	0.29	0.09	0.05	0.00	
3	0.04	0.06	2.53	0.09	0.10	0.03	20.10	1.05	0.26	0.09	0.04	0.00	
4	0.04	0.10	1.80	0.08	0.10	0.03	20.10	0.86	0.29	0.09	0.04	0.00	
5	0.04	0.29	1.40	0.09	0.09	0.03	14.20	0.66	0.32	0.09	0.04	0.00	
6	0.04	1.64	1.64	0.09	0.08	0.05	9.78	0.62	0.32	0.09	0.04	0.00	
7	0.06	1.30	5.38	0.08	0.07	3.08	7.30	0.58	0.32	0.09	0.04	0.00	
8	0.04	0.54	15.96	0.08	0.07	8.85	9.16	0.54	0.18	0.09	0.04	0.00	
9	0.04	0.46	23.60	0.10	0.07	43.20	8.54	0.50	0.18	0.09	0.04	0.00	
10	0.05	0.11	17.28	0.11	0.07	40.98	9.16	0.50	0.18	0.09	0.03	0.00	
11	0.08	0.10	13.82	0.10	0.06	57.24	16.84	0.46	0.15	0.09	0.03	0.00	
12	0.07	0.10	11.54	0.10	0.06	31.96	16.40	0.46	0.15	0.09	0.03	0.00	
13	0.08	0.11	7.61	0.09	0.05	17.72	11.92	0.43	0.15	0.08	0.03	0.00	
14	0.09	0.11	4.42	0.10	0.05	10.40	11.54	0.46	0.15	0.08	0.03	0.00	
15	0.09	0.12	4.42	0.09	0.05	6.58	12.30	0.58	0.18	0.08	0.02	0.00	
16	0.09	0.13	2.97	0.09	0.06	3.62	9.78	0.54	0.18	0.08	0.01	0.00	
17	0.06	0.09	1.88	0.09	0.06	7.61	6.58	0.66	0.15	0.07	0.01	0.00	
18	0.05	0.09	1.20	0.08	0.06	11.54	4.58	0.70	0.15	0.07	0.00	0.00	
19	0.05	0.12	0.86	0.08	0.06	19.10	3.19	1.05	0.15	0.07	0.00	0.00	
20	0.08	10.09	0.90	0.09	0.06	16.40	3.78	1.72	0.15	0.07	0.00	0.00	
21	1.10	10.78	0.90	0.08	0.06	10.78	3.62	1.80	0.15	0.06	0.00	0.02	
22	0.26	4.90	0.78	0.08	0.06	6.58	2.42	1.80	0.15	0.06	0.00	0.02	
23	0.09	2.75	0.50	0.09	0.06	7.61	1.30	1.64	0.15	0.06	0.00	0.02	
24	0.06	1.88	0.50	0.10	0.06	11.92	0.82	1.80	0.15	0.04	0.00	0.02	
25	0.06	13.06	0.22	0.08	0.06	18.60	0.74	1.30	0.14	0.05	0.00	0.03	
26	0.05	21.60	0.10	0.08	0.06	23.10	1.20	1.20	0.14	0.05	0.00	0.03	
27	0.06	18.16	0.10	0.08	0.06	19.10	1.56	1.15	0.13	0.05	0.00	0.03	
28	0.05	15.08	0.10	0.08	0.06	16.40	1.48	1.05	0.12	0.05	0.00	0.03	
29	0.07	9.78	0.12	0.08	0.05	20.10	1.35	0.82	0.11	0.05		0.03	
30	0.06	7.61	0.10	0.08	0.04	21.60	1.20	0.58	0.10	0.05		0.03	
31		5.38		0.07	0.04		1.20		0.09	0.05		0.03	
TOTAL	3.03	126.69	131.31	2.71	2.02	434.28	246.70	27.71	5.69	2.25	0.58	0.29	983.26 CMSDAY
MEAN	0.10	4.09	4.38	0.09	0.07	14.48	7.96	0.92	0.18	0.07	0.02	0.01	2.69 CMS
MAX	1.10	21.60	23.60	0.11	0.10	57.24	20.10	1.80	0.36	0.09	0.06	0.03	57.24 CMS
MIN	0.04	0.06	0.10	0.07	0.04	0.03	0.74	0.43	0.09	0.04	0.00	0.00	0.00 CMS
RUNOFF	0.262	10.946	11.345	0.234	0.175	37.522	21.315	2.394	0.492	0.194	0.050	0.025	84.954 MCM

MOMENTARY PEAK 65.00 CMS, AT 1.94 M (AD), AT 6.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 1.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 32.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

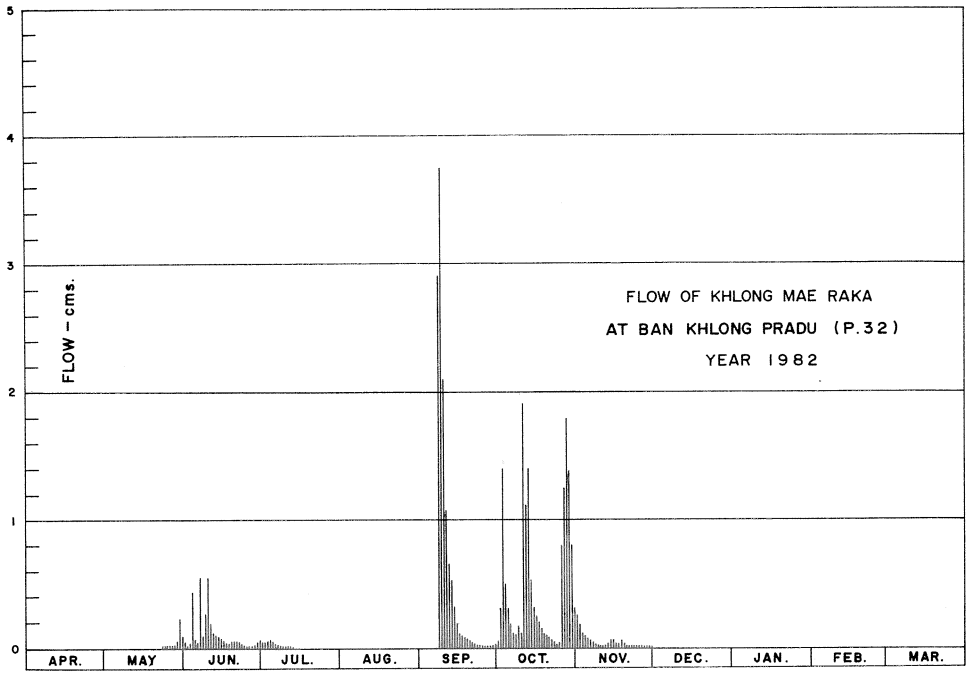
HUAI MAE RAKA AT BAN KHLONG PRADU, TAK (P.32)

LOCATION	LAT. 16°-55'-27" N., LONG. 99°-18'-09" E., ON RIGHT BANK AT BAN KHLONG PRADU, AMPHOE MUANG, TAK.
DRAINAGE AREA	342 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+3.516 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.18	-0.18	0.04	0.05	-0.18	-0.18	0.02	0.16	-0.18	-0.18	-0.18	-0.18	
2	-0.18	-0.18	0.01	0.04	-0.18	-0.18	0.32	0.13	-0.18	-0.18	-0.18	-0.18	
3	-0.18	-0.18	0.03	0.06	-0.18	-0.18	0.41	0.11	-0.18	-0.18	-0.18	-0.18	
4	-0.18	-0.18	0.15	0.06	-0.18	-0.18	0.26	0.10	-0.18	-0.18	-0.18	-0.18	
5	-0.18	-0.18	0.07	0.03	-0.18	-0.18	0.20	0.08	-0.18	-0.18	-0.18	-0.18	
6	-0.18	-0.18	0.03	0.03	-0.18	-0.18	0.14	0.06	-0.18	-0.18	-0.18	-0.18	
7	-0.18	-0.18	0.24	0.02	-0.18	-0.18	0.11	0.03	-0.18	-0.18	-0.18	-0.18	
8	-0.18	-0.18	0.09	0.01	-0.18	0.62	0.09	0.02	-0.18	-0.18	-0.18	-0.18	
9	-0.18	-0.18	0.16	0.01	-0.18	0.72	0.13	0.00	-0.18	-0.18	-0.18	-0.18	
10	-0.18	-0.18	0.24	0.00	-0.18	0.49	0.10	0.00	-0.18	-0.18	-0.18	-0.18	
11	-0.18	-0.18	0.15	-0.01	-0.18	0.35	0.49	0.00	-0.18	-0.18	-0.18	-0.18	
12	-0.18	-0.18	0.10	-0.01	-0.18	0.29	0.36	0.00	-0.18	-0.18	-0.18	-0.18	
13	-0.18	-0.18	0.09	-0.18	-0.18	0.25	0.41	0.01	-0.18	-0.18	-0.18	-0.18	
14	-0.18	-0.18	0.08	-0.18	-0.18	0.19	0.26	0.05	-0.18	-0.18	-0.18	-0.18	
15	-0.18	-0.18	0.06	-0.18	-0.18	0.14	0.20	0.05	-0.18	-0.18	-0.18	-0.18	
16	-0.18	-0.18	0.05	-0.18	-0.18	0.11	0.17	0.03	-0.18	-0.18	-0.18	-0.18	
17	-0.18	-0.18	0.04	-0.18	-0.18	0.09	0.14	0.02	-0.18	-0.18	-0.18	-0.18	
18	-0.18	-0.18	0.02	-0.18	-0.18	0.09	0.12	0.05	-0.18	-0.18	-0.18	-0.18	
19	-0.18	-0.18	0.05	-0.18	-0.18	0.08	0.10	0.04	-0.18	-0.18	-0.18	-0.18	
20	-0.18	-0.18	0.04	-0.18	-0.18	0.05	0.09	0.02	-0.18	-0.18	-0.18	-0.18	
21	-0.18	-0.18	0.05	-0.18	-0.18	0.03	0.08	0.01	-0.18	-0.18	-0.18	-0.18	
22	-0.18	-0.18	0.04	-0.18	-0.18	0.03	0.06	0.00	-0.18	-0.18	-0.18	-0.18	
23	-0.18	-0.18	0.02	-0.18	-0.18	0.02	0.04	0.00	-0.18	-0.18	-0.18	-0.18	
24	-0.18	-0.04	0.01	-0.18	-0.18	0.02	0.03	0.00	-0.18	-0.18	-0.18	-0.18	
25	-0.18	-0.04	0.01	-0.18	-0.18	0.01	0.01	0.00	-0.18	-0.18	-0.18	-0.18	
26	-0.18	-0.04	0.01	-0.18	-0.18	0.01	0.28	-0.01	-0.18	-0.18	-0.18	-0.18	
27	-0.18	-0.03	0.01	-0.18	-0.18	0.00	0.40	-0.01	-0.18	-0.18	-0.18	-0.18	
28	-0.18	-0.03	0.01	-0.18	-0.18	0.00	0.47	-0.01	-0.18	-0.18	-0.18	-0.18	
29	-0.18	0.05	0.03	-0.18	-0.18	0.00	0.39	-0.01	-0.18	-0.18		-0.18	
30	-0.18	0.15	0.06	-0.18	-0.18	0.01	0.28	-0.01	-0.18	-0.18		-0.18	
31		0.09		-0.18	-0.18		0.20		-0.18	-0.18		-0.18	
MEAN	-0.18	-0.13	0.07	-0.10	-0.18	0.08	0.21	0.03	-0.18	-0.18	-0.18	-0.18	
MAX	-0.18	0.15	0.24	0.06	-0.18	0.72	0.49	0.16	-0.18	-0.18	-0.18	-0.18	0.72
MIN	-0.18	-0.18	0.01	-0.18	-0.18	-0.18	0.01	-0.01	-0.18	-0.18	-0.18	-0.18	-0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 0.98 M (A.D), AT 10.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 3.24 M (A.D)
RIGHT BANK ELEVATION 3.20 M (A.D), DRAINAGE AREA 342 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.046	0.055	0.000	0.000	0.028	0.262	0.000	0.000	0.000	0.000	
2	0.000	0.000	0.019	0.046	0.000	0.000	0.908	0.181	0.000	0.000	0.000	0.000	
3	0.000	0.000	0.037	0.064	0.000	0.000	1.403	0.127	0.000	0.000	0.000	0.000	
4	0.000	0.000	0.235	0.064	0.000	0.000	0.628	0.100	0.000	0.000	0.000	0.000	
5	0.000	0.000	0.073	0.037	0.000	0.000	0.370	0.082	0.000	0.000	0.000	0.000	
6	0.000	0.000	0.037	0.037	0.000	0.000	0.208	0.064	0.000	0.000	0.000	0.000	
7	0.000	0.000	0.542	0.028	0.000	0.000	0.127	0.037	0.000	0.000	0.000	0.000	
8	0.000	0.000	0.091	0.019	0.000	2.894	0.091	0.028	0.000	0.000	0.000	0.000	
9	0.000	0.000	0.262	0.019	0.000	3.730	0.181	0.010	0.000	0.000	0.000	0.000	
10	0.000	0.000	0.542	0.010	0.000	1.907	0.100	0.010	0.000	0.000	0.000	0.000	
11	0.000	0.000	0.235	0.009	0.000	1.070	1.907	0.010	0.000	0.000	0.000	0.000	
12	0.000	0.000	0.100	0.009	0.000	0.757	1.124	0.010	0.000	0.000	0.000	0.000	
13	0.000	0.000	0.091	0.000	0.000	0.585	1.403	0.019	0.000	0.000	0.000	0.000	
14	0.000	0.000	0.082	0.000	0.000	0.343	0.628	0.055	0.000	0.000	0.000	0.000	
15	0.000	0.000	0.064	0.000	0.000	0.208	0.370	0.055	0.000	0.000	0.000	0.000	
16	0.000	0.000	0.055	0.000	0.000	0.127	0.289	0.037	0.000	0.000	0.000	0.000	
17	0.000	0.000	0.046	0.000	0.000	0.091	0.208	0.028	0.000	0.000	0.000	0.000	
18	0.000	0.000	0.028	0.000	0.000	0.091	0.154	0.055	0.000	0.000	0.000	0.000	
19	0.000	0.000	0.055	0.000	0.000	0.082	0.100	0.046	0.000	0.000	0.000	0.000	
20	0.000	0.000	0.046	0.000	0.000	0.055	0.091	0.028	0.000	0.000	0.000	0.000	
21	0.000	0.000	0.055	0.000	0.000	0.037	0.082	0.019	0.000	0.000	0.000	0.000	
22	0.000	0.000	0.046	0.000	0.000	0.037	0.064	0.010	0.000	0.000	0.000	0.000	
23	0.000	0.000	0.028	0.000	0.000	0.028	0.046	0.010	0.000	0.000	0.000	0.000	
24	0.000	0.006	0.019	0.000	0.000	0.028	0.037	0.010	0.000	0.000	0.000	0.000	
25	0.000	0.006	0.019	0.000	0.000	0.019	0.019	0.010	0.000	0.000	0.000	0.000	
26	0.000	0.006	0.019	0.000	0.000	0.019	0.714	0.009	0.000	0.000	0.000	0.000	
27	0.000	0.007	0.019	0.000	0.000	0.010	1.340	0.009	0.000	0.000	0.000	0.000	
28	0.000	0.007	0.019	0.000	0.000	0.010	1.781	0.009	0.000	0.000	0.000	0.000	
29	0.000	0.055	0.037	0.000	0.000	0.010	1.286	0.009	0.000	0.000		0.000	
30	0.000	0.235	0.064	0.000	0.000	0.019	0.714	0.009	0.000	0.000		0.000	
31		0.091		0.000	0.000		0.370		0.000	0.000		0.000	
TOTAL	0.000	0.413	3.011	0.397	0.000	12.157	16.771	1.348	0.000	0.000	0.000	0.000	34.097 CMSDAY
MEAN	0.000	0.013	0.100	0.013	0.000	0.405	0.541	0.045	0.000	0.000	0.000	0.000	0.093 CMS
MAX	0.000	0.235	0.542	0.064	0.000	3.730	1.907	0.262	0.000	0.000	0.000	0.000	3.730 CMS
MIN	0.000	0.000	0.019	0.000	0.000	0.000	0.019	0.009	0.000	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.000	0.036	0.260	0.034	0.000	1.050	1.449	0.116	0.000	0.000	0.000	0.000	2.946 MCM

MOMENTARY PEAK 6.53 CMS, AT 0.98 M (A.D), AT 10.00 HOURS, ON SEP 9, 1982

RUNOFF YIELD 0.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

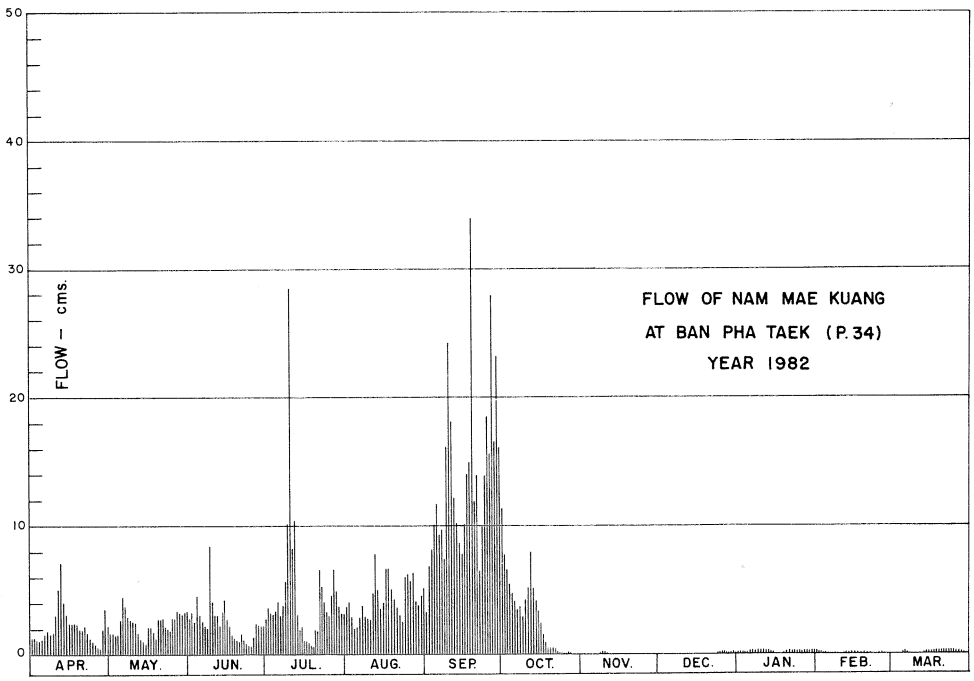
NAM MAE KUANG AT BAN PHA TAEK, CHIANG MAI (P.34)

LOCATION	LAT. 18°-56'-22" N., LONG. 99°-07'-25" E., ON LEFT BANK AT BAN PHA TAEK, AMPHOE DOI SAKET, CHIANG MAI.
DRAINAGE AREA	566 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+339.350 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+344.446 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE BY SOME SILTING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	340.08	340.11	340.18	340.19	340.23	340.22	340.54	339.48	339.58	339.84	339.90	339.73	
2	340.07	340.11	340.21	340.23	340.25	340.20	340.39	339.44	339.70	339.83	339.90	339.83	
3	340.06	340.10	340.15	340.20	340.20	340.36	340.35	339.43	339.70	339.83	339.87	339.82	
4	340.05	340.10	340.27	340.21	340.15	340.42	340.30	339.44	339.70	339.84	339.87	339.82	
5	340.08	340.16	340.20	340.23	340.13	340.51	340.28	339.41	339.68	339.87	339.87	339.83	
6	340.10	340.27	340.18	340.25	340.15	340.44	340.25	339.39	339.68	339.94	339.86	339.93	
7	340.13	340.22	340.14	340.20	340.24	340.45	340.22	339.38	339.67	339.93	339.85	339.79	
8	340.10	340.19	340.13	340.25	340.20	340.38	340.23	339.37	339.68	339.92	339.84	339.78	
9	340.12	340.18	340.41	340.35	340.18	340.60	340.19	339.39	339.69	339.92	339.71	339.78	
10	340.20	340.17	340.25	340.84	340.19	340.77	340.26	339.42	339.69	339.91	339.71	339.78	
11	340.28	340.16	340.20	340.41	340.17	340.66	340.27	339.43	339.75	339.91	339.77	339.78	
12	340.37	340.08	340.20	340.48	340.39	340.54	340.39	339.39	339.75	339.91	339.88	339.78	
13	340.27	340.06	340.15	340.24	340.31	340.49	340.31	339.47	339.74	339.91	339.88	339.78	
14	340.20	340.05	340.25	340.13	340.25	340.43	340.28	339.86	339.74	339.87	339.88	339.87	
15	340.17	340.04	340.19	340.14	340.22	340.41	340.22	339.75	339.72	339.83	339.87	339.93	
16	340.16	340.14	340.17	340.05	340.25	340.38	340.16	339.68	339.71	339.83	339.87	339.93	
17	340.16	340.14	340.12	340.05	340.35	340.57	340.09	339.65	339.71	339.82	339.87	339.91	
18	340.16	340.12	340.08	340.01	340.35	340.60	340.04	339.69	339.70	339.81	339.87	339.91	
19	340.13	340.07	340.06	340.01	340.29	340.92	339.97	339.68	339.69	339.82	339.87	339.90	
20	340.13	340.18	340.04	340.12	340.26	340.52	339.99	339.68	339.64	339.92	339.81	339.90	
21	340.15	340.19	340.10	340.12	340.23	340.57	339.98	339.67	339.63	339.92	339.81	339.90	
22	340.13	340.15	340.05	340.35	340.20	340.35	340.00	339.66	339.70	339.92	339.81	339.90	
23	340.08	340.13	340.03	340.31	340.17	340.44	339.64	339.65	339.79	339.92	339.80	339.90	
24	340.04	340.12	340.02	340.24	340.33	340.56	339.59	339.64	339.79	339.92	339.80	339.90	
25	340.03	340.18	340.01	340.20	340.34	340.67	339.64	339.73	339.82	339.92	339.79	339.90	
26	340.01	340.19	340.07	340.22	340.32	340.61	339.89	339.67	339.89	339.92	339.86	339.90	
27	339.99	340.22	340.16	340.35	340.34	340.83	339.58	339.64	339.88	339.92	339.62	339.89	
28	340.06	340.21	340.15	340.31	340.26	340.63	339.56	339.62	339.86	339.92	339.73	339.88	
29	340.22	340.20	340.15	340.25	340.24	340.75	339.54	339.60	339.86	339.91		339.78	
30	340.14	340.21	340.15	340.21	340.25	340.61	339.66	339.58	339.86	339.91		339.77	
31		340.21		340.20	340.30		339.51		339.85	339.91		339.77	
MEAN	340.13	340.15	340.15	340.24	340.25	340.53	340.04	339.56	339.74	339.89	339.83	339.85	
MAX	340.37	340.27	340.41	340.84	340.39	340.92	340.54	339.86	339.89	339.94	339.90	339.93	340.92
MIN	339.99	340.04	340.01	340.01	340.13	340.20	339.51	339.37	339.58	339.81	339.62	339.73	339.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 341.03 M (MSL), AT 11.00 HOURS, ON SEP 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 339.35 M (MSL), RIVER BED 338.87 M (MSL)
LEFT BANK ELEVATION 344.11 M (MSL)
RIGHT BANK ELEVATION 345.95 M (MSL), DRAINAGE AREA 566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	1.65	2.70	2.85	3.60	3.40	12.60	0.00	0.00	0.08	0.20	0.00	
2	1.20	1.65	3.20	3.60	4.00	3.00	7.70	0.00	0.00	0.06	0.20	0.06	
3	1.10	1.50	2.25	3.00	3.00	6.80	6.50	0.00	0.00	0.06	0.14	0.04	
4	1.00	1.50	4.40	3.20	2.25	8.60	5.00	0.00	0.00	0.08	0.14	0.04	
5	1.30	2.40	3.00	3.60	1.95	11.40	4.60	0.00	0.00	0.14	0.14	0.06	
6	1.50	4.40	2.70	4.00	2.25	9.20	4.00	0.00	0.00	0.32	0.12	0.29	
7	1.95	3.40	2.10	3.00	3.80	9.50	3.40	0.00	0.00	0.29	0.10	0.00	
8	1.50	2.85	1.95	4.00	3.00	7.40	3.60	0.00	0.00	0.26	0.08	0.00	
9	1.80	2.70	8.30	6.50	2.70	15.00	2.85	0.00	0.00	0.26	0.00	0.00	
10	3.00	2.55	4.00	28.40	2.85	24.20	4.20	0.00	0.00	0.23	0.00	0.00	
11	4.60	2.40	3.00	8.30	2.55	18.00	4.40	0.00	0.00	0.23	0.00	0.00	
12	7.10	1.30	3.00	10.40	7.70	12.60	7.70	0.00	0.00	0.23	0.16	0.00	
13	4.40	1.10	2.25	3.80	5.30	10.70	5.30	0.00	0.00	0.23	0.16	0.00	
14	3.00	1.00	4.00	1.95	4.00	8.90	4.60	0.12	0.00	0.14	0.16	0.14	
15	2.55	0.90	2.85	2.10	3.40	8.30	3.40	0.00	0.00	0.06	0.14	0.29	
16	2.40	2.10	2.55	1.00	4.00	7.40	2.40	0.00	0.00	0.06	0.14	0.29	
17	2.40	2.10	1.80	1.00	6.50	13.80	1.40	0.00	0.00	0.04	0.14	0.23	
18	2.40	1.80	1.30	0.60	6.50	15.00	0.90	0.00	0.00	0.02	0.14	0.23	
19	1.95	1.20	1.10	0.60	4.80	33.60	0.41	0.00	0.00	0.04	0.14	0.20	
20	1.95	2.70	0.90	1.80	4.20	11.80	0.47	0.00	0.00	0.26	0.02	0.20	
21	2.25	2.85	1.50	1.80	3.60	13.80	0.44	0.00	0.00	0.26	0.02	0.20	
22	1.95	2.25	1.00	6.50	3.00	6.50	0.50	0.00	0.00	0.26	0.02	0.20	
23	1.30	1.95	0.80	5.30	2.55	9.20	0.00	0.00	0.00	0.26	0.00	0.20	
24	0.90	1.80	0.70	3.80	5.90	13.40	0.00	0.00	0.00	0.26	0.00	0.20	
25	0.80	2.70	0.60	3.00	6.20	18.50	0.00	0.00	0.04	0.26	0.00	0.20	
26	0.60	2.85	1.20	3.40	5.60	15.50	0.18	0.00	0.18	0.26	0.12	0.20	
27	0.47	3.40	2.40	6.50	6.20	27.80	0.00	0.00	0.16	0.26	0.00	0.18	
28	1.10	3.20	2.25	5.30	4.20	16.50	0.00	0.00	0.12	0.26	0.00	0.16	
29	3.40	3.00	2.25	4.00	3.80	23.00	0.00	0.00	0.12	0.23		0.00	
30	2.10	3.20	2.25	3.20	4.00	15.50	0.00	0.00	0.12	0.23		0.00	
31		3.20		3.00	5.00		0.00		0.10	0.23		0.00	
TOTAL	63.27	71.60	72.30	139.50	128.40	398.30	86.55	0.12	0.84	5.86	2.48	3.61	972.83 CMSDAY
MEAN	2.11	2.31	2.41	4.50	4.14	13.28	2.79	0.00	0.03	0.19	0.09	0.12	2.67 CMS
MAX	7.10	4.40	8.30	28.40	7.70	33.60	12.60	0.12	0.18	0.32	0.20	0.29	33.60 CMS
MIN	0.47	0.90	0.60	0.60	1.95	3.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00 CMS
RUNOFF	5.467	6.186	6.247	12.053	11.094	34.413	7.478	0.010	0.073	0.506	0.214	0.312	84.053 MCM

MOMENTARY PEAK 41.80 CMS, AT 341.03 M (MSL), AT 11.00 HOURS, ON SEP 19, 1982
RUNOFF YIELD 4.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 73.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

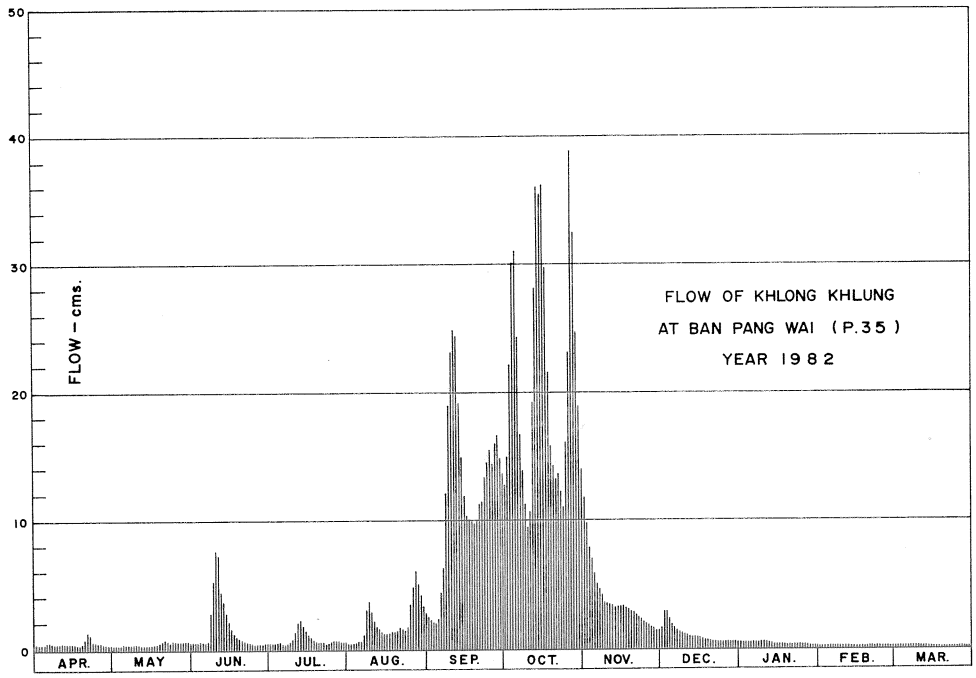
KHLONG KHLUNG AT BAN PANG WAI, KAMPHAENG PHET (P.35)

LOCATION	LAT. 16°-04'-22" N., LONG. 99°-24'-18" E., ON RIGHT BANK AT BAN PANG WAI ABOUT 1.5 KILOMETERS FROM KHAO SONG PHI NONG, AMPHOE KHLONG KHLUNG, KAMPHAENG PHET.
DRAINAGE AREA	730 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF P.35 STATION OFFICE.
ELEVATION	B.M.1=+4.502 M. (A.D.), B.M.2=4.472 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 141 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.27	0.39	0.27	0.33	0.67	1.24	1.22	0.55	0.34	0.20	0.15	
2	0.27	0.25	0.37	0.28	0.32	0.63	1.33	1.12	0.71	0.34	0.19	0.15	
3	0.26	0.24	0.37	0.30	0.32	0.63	1.54	1.05	0.71	0.34	0.19	0.14	
4	0.26	0.24	0.41	0.31	0.32	0.61	1.69	0.99	0.64	0.34	0.19	0.14	
5	0.36	0.28	0.39	0.30	0.36	0.66	1.71	0.95	0.59	0.33	0.19	0.14	
6	0.34	0.28	0.37	0.28	0.36	0.84	1.55	0.90	0.56	0.33	0.19	0.14	
7	0.28	0.26	0.39	0.27	0.50	0.97	1.40	0.87	0.54	0.33	0.18	0.14	
8	0.28	0.27	0.70	0.27	0.72	1.22	1.28	0.81	0.52	0.32	0.18	0.14	
9	0.29	0.26	0.91	0.36	0.79	1.44	1.18	0.78	0.50	0.32	0.18	0.14	
10	0.29	0.27	1.03	0.41	0.71	1.53	1.12	0.78	0.49	0.31	0.18	0.14	
11	0.29	0.25	1.01	0.52	0.62	1.57	1.17	0.78	0.47	0.30	0.17	0.13	
12	0.28	0.24	0.89	0.63	0.58	1.56	1.43	0.77	0.46	0.30	0.17	0.13	
13	0.28	0.23	0.81	0.66	0.54	1.43	1.71	0.74	0.45	0.29	0.17	0.13	
14	0.32	0.24	0.71	0.58	0.52	1.31	1.81	0.75	0.45	0.28	0.16	0.13	
15	0.31	0.24	0.63	0.53	0.48	1.21	1.80	0.76	0.44	0.27	0.16	0.12	
16	0.28	0.25	0.56	0.48	0.49	1.17	1.81	0.76	0.44	0.27	0.16	0.12	
17	0.27	0.25	0.51	0.43	0.50	1.14	1.67	0.73	0.43	0.27	0.15	0.12	
18	0.28	0.28	0.47	0.41	0.52	1.14	1.50	0.73	0.42	0.26	0.15	0.12	
19	0.31	0.29	0.44	0.39	0.51	1.13	1.34	0.71	0.41	0.24	0.15	0.12	
20	0.35	0.35	0.41	0.37	0.55	1.14	1.29	0.71	0.40	0.24	0.15	0.12	
21	0.50	0.40	0.38	0.36	0.56	1.19	1.26	0.69	0.39	0.23	0.15	0.12	
22	0.47	0.38	0.35	0.35	0.53	1.20	1.27	0.67	0.39	0.22	0.15	0.12	
23	0.39	0.39	0.33	0.35	0.52	1.25	1.22	0.63	0.39	0.21	0.15	0.11	
24	0.35	0.40	0.32	0.34	0.61	1.29	1.18	0.61	0.38	0.21	0.15	0.11	
25	0.32	0.39	0.29	0.40	0.76	1.33	1.34	0.61	0.38	0.21	0.15	0.11	
26	0.30	0.39	0.29	0.41	0.84	1.29	1.49	0.59	0.37	0.20	0.15	0.11	
27	0.29	0.40	0.28	0.38	0.95	1.34	1.86	0.56	0.37	0.19	0.15	0.11	
28	0.28	0.39	0.29	0.35	0.92	1.36	1.72	0.54	0.36	0.19	0.15	0.11	
29	0.28	0.39	0.28	0.33	0.85	1.31	1.57	0.53	0.35	0.21		0.11	
30	0.27	0.38	0.27	0.31	0.78	1.31	1.43	0.54	0.35	0.20		0.11	
31		0.39		0.30	0.72		1.31		0.35	0.20		0.11	
MEAN	0.31	0.31	0.50	0.38	0.58	1.16	1.46	0.76	0.46	0.27	0.17	0.13	
MAX	0.50	0.40	1.03	0.66	0.95	1.57	1.86	1.22	0.71	0.34	0.20	0.15	1.86
MIN	0.26	0.23	0.27	0.27	0.32	0.61	1.12	0.53	0.35	0.19	0.15	0.11	0.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.04 M (A.D), AT 4.00 HOURS, ON OCT 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.02 M (A.D)
LEFT BANK ELEVATION 13.39 M (A.D)
RIGHT BANK ELEVATION 12.77 M (A.D), DRAINAGE AREA 730 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.34	0.58	0.34	0.46	2.48	12.70	12.10	1.58	0.48	0.20	0.11	
2	0.34	0.30	0.54	0.36	0.44	2.18	15.55	9.50	2.80	0.48	0.18	0.11	
3	0.32	0.28	0.54	0.40	0.44	2.18	23.48	8.00	2.80	0.48	0.18	0.09	
4	0.32	0.28	0.66	0.42	0.44	2.03	30.05	6.80	2.25	0.48	0.18	0.09	
5	0.52	0.36	0.58	0.40	0.52	2.40	31.00	6.00	1.87	0.46	0.18	0.09	
6	0.48	0.36	0.54	0.36	0.52	4.22	23.90	5.00	1.65	0.46	0.18	0.09	
7	0.36	0.32	0.58	0.34	1.20	6.40	18.00	4.61	1.50	0.46	0.16	0.09	
8	0.36	0.34	2.70	0.34	2.90	12.10	13.90	3.83	1.35	0.44	0.16	0.09	
9	0.38	0.32	5.20	0.52	3.60	19.52	11.00	3.50	1.20	0.44	0.16	0.09	
10	0.38	0.34	7.60	0.66	2.80	23.06	9.50	3.50	1.14	0.42	0.16	0.09	
11	0.38	0.30	7.20	1.35	2.10	24.74	10.75	3.50	1.02	0.40	0.14	0.07	
12	0.36	0.28	4.87	2.18	1.80	24.32	19.14	3.40	0.96	0.40	0.14	0.07	
13	0.36	0.26	3.83	2.40	1.50	19.14	31.00	3.10	0.90	0.38	0.14	0.07	
14	0.44	0.28	2.80	1.80	1.35	14.85	36.05	3.20	0.90	0.36	0.12	0.07	
15	0.42	0.28	2.18	1.42	1.08	11.80	35.50	3.30	0.84	0.34	0.12	0.05	
16	0.36	0.30	1.65	1.08	1.14	10.75	36.05	3.30	0.84	0.34	0.12	0.05	
17	0.34	0.30	1.27	0.78	1.20	10.00	29.15	3.00	0.78	0.34	0.11	0.05	
18	0.36	0.36	1.02	0.66	1.35	10.00	21.80	3.00	0.72	0.32	0.11	0.05	
19	0.42	0.38	0.84	0.58	1.27	9.75	15.90	2.80	0.66	0.28	0.11	0.05	
20	0.50	0.50	0.66	0.54	1.58	10.00	14.20	2.80	0.60	0.28	0.11	0.05	
21	1.20	0.60	0.56	0.52	1.65	11.25	13.30	2.63	0.58	0.26	0.11	0.05	
22	1.02	0.56	0.50	0.50	1.42	11.50	13.60	2.48	0.58	0.24	0.11	0.05	
23	0.58	0.58	0.46	0.50	1.35	13.00	12.10	2.18	0.58	0.22	0.11	0.03	
24	0.50	0.60	0.44	0.48	2.03	14.20	11.00	2.03	0.56	0.22	0.11	0.03	
25	0.44	0.58	0.38	0.60	3.30	15.55	15.90	2.03	0.56	0.22	0.11	0.03	
26	0.40	0.58	0.38	0.66	4.22	14.20	21.42	1.87	0.54	0.20	0.11	0.03	
27	0.38	0.60	0.36	0.56	6.00	15.90	38.80	1.65	0.54	0.18	0.11	0.03	
28	0.36	0.58	0.38	0.50	5.40	16.60	31.50	1.50	0.52	0.18	0.11	0.03	
29	0.36	0.58	0.36	0.46	4.35	14.85	24.74	1.42	0.50	0.22		0.03	
30	0.34	0.56	0.34	0.42	3.50	14.85	19.14	1.50	0.50	0.20		0.03	
31		0.58		0.40	2.90		14.85		0.50	0.20		0.03	
TOTAL	13.34	12.88	50.00	22.53	63.81	363.82	654.97	113.53	32.32	10.38	3.84	1.89	1343.31 CMSDAY
MEAN	0.44	0.42	1.67	0.73	2.06	12.13	21.13	3.78	1.04	0.33	0.14	0.06	3.68 CMS
MAX	1.20	0.60	7.60	2.40	6.00	24.74	38.80	12.10	2.80	0.48	0.20	0.11	38.80 CMS
MIN	0.32	0.26	0.34	0.34	0.44	2.03	9.50	1.42	0.50	0.18	0.11	0.03	0.03 CMS
RUNOFF	1.153	1.113	4.320	1.947	5.513	31.434	56.589	9.809	2.792	0.897	0.332	0.163	116.062 MCM

MOMENTARY PEAK 48.90 CMS, AT 2.04 M (A.D), AT 4.00 HOURS, ON OCT 27, 1982
RUNOFF YIELD 5.04 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

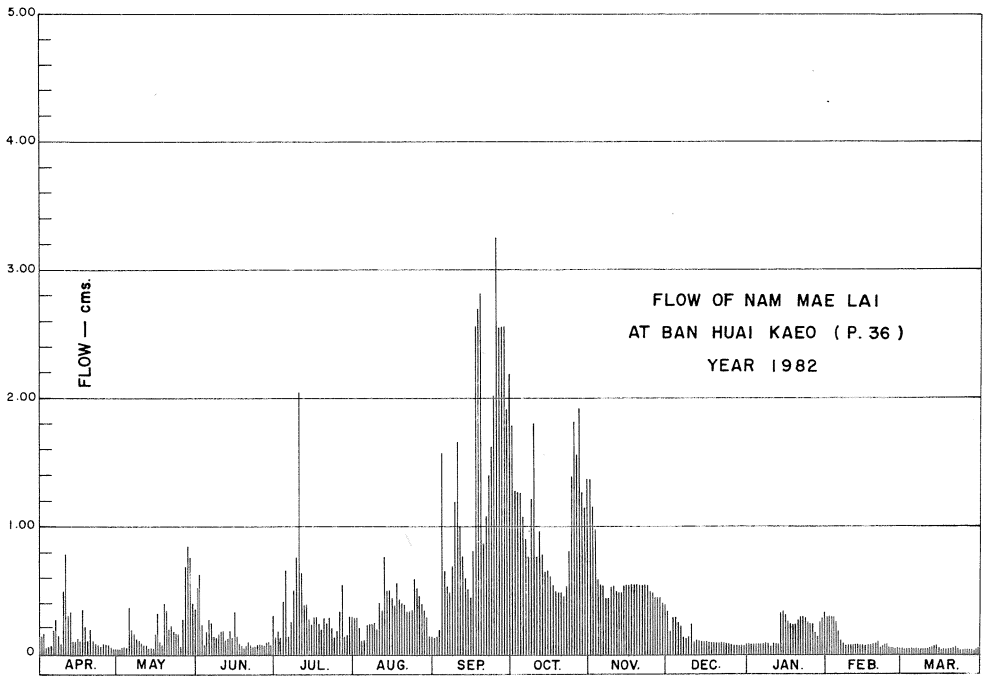
NAM MAE LAI AT BAN HUAI KAEO, CHIANG MAI (P.36)

LOCATION	LAT. 18°-51'-26" N., LONG. 99°-17'-12" E., ON RIGHT BANK AT BAN HUAI KAEO, TAMBON HUAI KAEO, AMPHOE SAN KAMPHAENG, CHIANG MAI.
DRAINAGE AREA	35 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+558.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+565.610 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	559.22	559.17	559.34	559.30	559.33	559.30	559.50	559.45	559.34	559.25	559.33	559.23	
2	559.23	559.18	559.27	559.31	559.33	559.30	559.47	559.45	559.31	559.25	559.33	559.22	
3	559.18	559.18	559.20	559.29	559.31	559.31	559.46	559.42	559.33	559.25	559.33	559.22	
4	559.19	559.18	559.23	559.34	559.28	559.49	559.46	559.39	559.33	559.26	559.33	559.22	
5	559.19	559.29	559.26	559.40	559.28	559.40	559.45	559.38	559.32	559.26	559.32	559.22	
6	559.26	559.24	559.25	559.30	559.32	559.38	559.44	559.38	559.32	559.26	559.30	559.23	
7	559.22	559.22	559.22	559.32	559.32	559.37	559.41	559.36	559.30	559.26	559.26	559.22	
8	559.23	559.21	559.22	559.37	559.32	559.41	559.42	559.36	559.29	559.27	559.25	559.22	
9	559.20	559.21	559.43	559.41	559.31	559.44	559.51	559.38	559.30	559.26	559.25	559.22	
10	559.37	559.20	559.31	559.53	559.35	559.50	559.43	559.38	559.32	559.23	559.25	559.22	
11	559.27	559.19	559.28	559.40	559.34	559.43	559.41	559.37	559.28	559.28	559.25	559.22	
12	559.28	559.19	559.28	559.35	559.41	559.41	559.43	559.37	559.28	559.26	559.26	559.23	
13	559.21	559.16	559.31	559.35	559.39	559.39	559.41	559.37	559.27	559.27	559.26	559.23	
14	559.21	559.17	559.30	559.33	559.37	559.38	559.40	559.38	559.27	559.34	559.26	559.25	
15	559.22	559.18	559.34	559.32	559.37	559.36	559.40	559.38	559.27	559.34	559.26	559.25	
16	559.21	559.28	559.30	559.33	559.35	559.41	559.39	559.38	559.27	559.33	559.26	559.21	
17	559.29	559.21	559.26	559.33	559.38	559.57	559.38	559.38	559.27	559.32	559.26	559.21	
18	559.26	559.20	559.24	559.32	559.36	559.59	559.38	559.38	559.27	559.32	559.26	559.22	
19	559.21	559.30	559.23	559.31	559.35	559.47	559.37	559.38	559.26	559.32	559.26	559.21	
20	559.24	559.28	559.27	559.33	559.35	559.42	559.37	559.38	559.26	559.32	559.28	559.21	
21	559.21	559.24	559.24	559.32	559.34	559.44	559.37	559.38	559.26	559.33	559.24	559.22	
22	559.19	559.25	559.22	559.33	559.34	559.48	559.36	559.38	559.26	559.33	559.24	559.23	
23	559.18	559.23	559.24	559.31	559.34	559.50	559.38	559.38	559.26	559.33	559.25	559.22	
24	559.18	559.23	559.25	559.29	559.39	559.55	559.45	559.37	559.26	559.33	559.26	559.21	
25	559.20	559.19	559.25	559.31	559.38	559.62	559.51	559.37	559.25	559.32	559.23	559.21	
26	559.20	559.26	559.24	559.34	559.36	559.57	559.49	559.36	559.24	559.32	559.23	559.21	
27	559.20	559.35	559.24	559.38	559.35	559.57	559.52	559.36	559.24	559.31	559.23	559.21	
28	559.18	559.38	559.27	559.30	559.34	559.57	559.47	559.36	559.24	559.30	559.23	559.21	
29	559.17	559.34	559.25	559.30	559.33	559.52	559.45	559.35	559.24	559.32		559.21	
30	559.17	559.30	559.33	559.33	559.30	559.54	559.47	559.35	559.24	559.33		559.22	
31		559.28		559.33	559.30		559.47		559.25	559.34		559.22	
MEAN	559.22	559.24	559.27	559.34	559.34	559.46	559.43	559.38	559.28	559.30	559.27	559.22	
MAX	559.37	559.38	559.43	559.53	559.41	559.62	559.52	559.45	559.34	559.34	559.33	559.25	559.62
MIN	559.17	559.16	559.20	559.29	559.28	559.30	559.36	559.35	559.24	559.23	559.23	559.21	559.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 560.00 M (MSL), AT 22.00 HOURS, ON SEP 25, 1982
ZERO GAGE AT BOTTOM ELEVATION 558.80 M (MSL), RIVER BED 559.03 M (MSL)
LEFT BANK ELEVATION 564.31 M (MSL)
RIGHT BANK ELEVATION 565.18 M (MSL), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.144	0.056	0.620	0.140	0.293	0.140	1.670	1.160	0.344	0.085	0.293	0.063	
2	0.176	0.064	0.304	0.191	0.293	0.140	1.364	1.160	0.191	0.085	0.293	0.052	
3	0.064	0.064	0.080	0.129	0.191	0.191	1.262	0.854	0.293	0.085	0.293	0.052	
4	0.072	0.064	0.176	0.344	0.118	1.568	1.262	0.599	0.293	0.096	0.293	0.052	
5	0.072	0.368	0.272	0.650	0.118	0.650	1.160	0.548	0.242	0.096	0.242	0.052	
6	0.272	0.208	0.240	0.140	0.242	0.548	1.058	0.548	0.242	0.096	0.140	0.063	
7	0.144	0.144	0.144	0.242	0.242	0.497	0.752	0.446	0.140	0.096	0.096	0.052	
8	0.176	0.112	0.144	0.497	0.242	0.752	0.854	0.446	0.129	0.107	0.085	0.052	
9	0.080	0.112	1.196	0.752	0.191	1.058	1.796	0.548	0.140	0.096	0.085	0.052	
10	0.785	0.080	0.191	2.048	0.395	1.670	0.956	0.548	0.242	0.063	0.085	0.052	
11	0.304	0.072	0.118	0.650	0.344	0.956	0.752	0.497	0.118	0.118	0.085	0.052	
12	0.336	0.072	0.118	0.395	0.752	0.752	0.956	0.497	0.118	0.096	0.096	0.063	
13	0.112	0.048	0.191	0.395	0.599	0.599	0.752	0.497	0.107	0.107	0.096	0.063	
14	0.112	0.056	0.140	0.293	0.497	0.548	0.650	0.548	0.107	0.344	0.096	0.085	
15	0.144	0.064	0.344	0.242	0.497	0.446	0.650	0.548	0.107	0.344	0.096	0.085	
16	0.112	0.336	0.140	0.293	0.395	0.752	0.599	0.548	0.107	0.293	0.096	0.041	
17	0.368	0.112	0.096	0.293	0.548	2.552	0.548	0.548	0.107	0.242	0.096	0.041	
18	0.272	0.080	0.074	0.242	0.446	2.804	0.548	0.548	0.107	0.242	0.096	0.052	
19	0.112	0.400	0.063	0.191	0.395	1.364	0.497	0.548	0.096	0.242	0.096	0.041	
20	0.208	0.336	0.107	0.293	0.395	0.854	0.497	0.548	0.096	0.242	0.118	0.041	
21	0.112	0.208	0.074	0.242	0.344	1.058	0.497	0.548	0.096	0.293	0.074	0.052	
22	0.072	0.240	0.052	0.293	0.344	1.466	0.446	0.548	0.096	0.293	0.074	0.063	
23	0.064	0.176	0.074	0.191	0.344	1.670	0.548	0.548	0.096	0.293	0.085	0.052	
24	0.064	0.176	0.085	0.129	0.599	2.300	1.160	0.497	0.096	0.293	0.096	0.041	
25	0.080	0.072	0.085	0.191	0.548	3.244	1.796	0.497	0.085	0.242	0.063	0.041	
26	0.080	0.272	0.074	0.344	0.446	2.552	1.568	0.446	0.074	0.242	0.063	0.041	
27	0.080	0.675	0.074	0.548	0.395	2.552	1.922	0.446	0.074	0.191	0.063	0.041	
28	0.064	0.840	0.107	0.140	0.344	2.552	1.364	0.446	0.074	0.140	0.063	0.041	
29	0.056	0.620	0.085	0.140	0.293	1.922	1.160	0.395	0.074	0.242		0.041	
30	0.056	0.400	0.293	0.293	0.140	2.174	1.364	0.395	0.074	0.293		0.052	
31		0.336		0.293	0.140		1.364		0.085	0.344		0.052	
TOTAL	4.793	6.863	5.761	11.224	11.130	40.331	31.772	16.950	4.250	6.041	3.457	1.623	144.195 CMSDAY
MEAN	0.160	0.221	0.192	0.362	0.359	1.344	1.025	0.565	0.137	0.195	0.123	0.052	0.395 CMS
MAX	0.785	0.840	1.196	2.048	0.752	3.244	1.922	1.160	0.344	0.344	0.293	0.085	3.244 CMS
MIN	0.056	0.048	0.052	0.129	0.118	0.140	0.446	0.395	0.074	0.063	0.063	0.041	0.041 CMS
RUNOFF	0.414	0.593	0.498	0.970	0.962	3.485	2.745	1.464	0.367	0.522	0.299	0.140	12.458 MCM

MOMENTARY PEAK 11.90 CMS, AT 560.00 M (MSL), AT 22.00 HOURS, ON SEP 25, 1982
RUNOFF YIELD 11.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 340.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

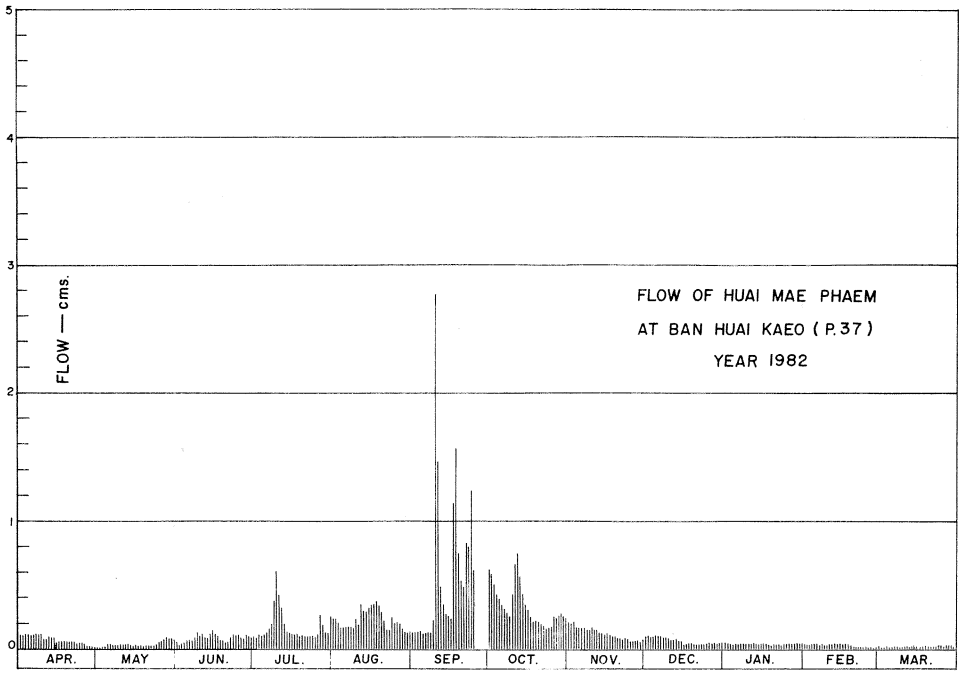
HUAI MAE PHAEM AT BAN HUAI KAEO, CHIANG MAI (P.37)

LOCATION	LAT. 18°-50'-48" N., LONG. 99°-16'-22" E., ON RIGHT BANK ABOUT 2 KILOMETERS FROM NAM MAE LAI, BAN HUAI KAEO, AMPHOE SAN KAMPHAENG, CHIANG MAI.
DRAINAGE AREA	14 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+527.23 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 8 METERS FROM STAFF GAGE.
ELEVATION	+531.056 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. NO DATA ON SEPT. 25-30, 1982. STAGE-DISCHARGE RELATION DEFINED BY 79 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	527.88	527.84	527.91	527.94	528.02	527.97	528.15	528.01	527.94	527.86	527.86	527.83	
2	527.88	527.83	527.90	527.94	528.02	527.97	528.13	528.00	527.94	527.86	527.86	527.83	
3	527.88	527.84	527.90	527.95	528.01	527.97	528.11	528.00	527.94	527.86	527.86	527.83	
4	527.88	527.85	527.91	527.95	527.99	527.98	528.09	528.00	527.94	527.86	527.85	527.83	
5	527.88	527.90	527.91	527.96	527.99	527.97	528.07	527.99	527.93	527.86	527.85	527.83	
6	527.88	527.91	527.91	527.96	528.00	527.96	528.06	527.99	527.93	527.86	527.87	527.83	
7	527.88	527.88	527.92	527.98	527.99	527.96	528.05	527.99	527.93	527.85	527.88	527.83	
8	527.88	527.88	527.93	528.03	527.99	527.97	528.03	527.98	527.93	527.85	527.88	527.83	
9	527.87	527.87	527.98	528.10	527.99	528.03	528.03	527.98	527.93	527.85	527.88	527.83	
10	527.90	527.86	527.95	528.14	528.02	528.44	528.07	527.98	527.93	527.85	527.87	527.83	
11	527.93	527.86	527.95	528.08	528.00	528.17	528.16	527.98	527.92	527.85	527.87	527.82	
12	527.93	527.86	527.93	528.05	528.06	528.08	528.18	527.97	527.92	527.85	527.87	527.82	
13	527.93	527.85	527.93	528.00	528.04	528.06	528.11	527.96	527.92	527.89	527.86	527.82	
14	527.93	527.85	527.95	527.97	528.04	528.03	528.06	527.95	527.91	527.89	527.86	527.82	
15	527.91	527.85	527.98	527.97	528.04	528.02	528.06	527.95	527.90	527.89	527.86	527.82	
16	527.92	527.87	527.96	527.96	528.06	528.02	528.04	527.94	527.89	527.88	527.86	527.82	
17	527.92	527.86	527.94	527.95	528.07	528.25	528.02	527.94	527.89	527.88	527.85	527.82	
18	527.92	527.85	527.92	527.95	528.07	528.32	528.01	527.93	527.89	527.88	527.85	527.82	
19	527.91	527.88	527.92	527.94	528.06	528.18	528.01	527.93	527.89	527.88	527.85	527.82	
20	527.91	527.88	527.90	527.95	528.03	528.12	528.01	527.93	527.88	527.88	527.84	527.82	
21	527.91	527.88	527.91	527.94	528.00	528.10	528.00	527.93	527.88	527.88	527.83	527.81	
22	527.91	527.89	527.94	527.94	527.99	528.20	528.00	527.93	527.88	527.88	527.83	527.81	
23	527.90	527.89	527.95	527.93	527.97	528.19	527.99	527.93	527.88	527.88	527.82	527.81	
24	527.90	527.91	527.93	527.94	528.03	528.27	527.98	527.93	527.88	527.87	527.82	527.81	
25	527.90	527.91	527.93	527.94	528.01	*******	527.98	527.92	527.87	527.87	527.83	527.81	
26	527.90	527.91	527.93	527.96	528.01	*******	528.03	527.92	527.87	527.87	527.83	527.81	
27	527.89	527.94	527.92	528.03	528.01	*******	528.02	527.92	527.87	527.87	527.83	527.81	
28	527.85	527.94	527.96	527.98	527.99	*******	528.03	527.91	527.87	527.87	527.82	527.81	
29	527.84	527.94	527.95	527.96	527.98	*******	528.03	527.91	527.87	527.87		527.81	
30	527.84	527.93	527.94	527.96	527.98	*******	528.02	527.91	527.86	527.87		527.81	
31		527.91		528.02	527.97		528.02		527.86	527.86		527.80	
MEAN	527.90	527.88	527.93	527.98	528.01	*******	528.05	527.95	527.90	527.87	527.85	527.82	
MAX	527.93	527.94	527.98	528.14	528.07	528.44	528.18	528.01	527.94	527.89	527.88	527.83	528.44
MIN	527.84	527.83	527.90	527.93	527.97	*******	527.98	527.91	527.86	527.85	527.82	527.80	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 528.45 M (MSL), AT 16.00 HOURS, ON SEP 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 527.23 M (MSL), RIVER BED 527.19 M (MSL)
LEFT BANK ELEVATION 531.05 M (MSL)
RIGHT BANK ELEVATION 532.15 M (MSL), DRAINAGE AREA 14 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.036	0.028	0.054	0.096	0.234	0.138	0.640	0.207	0.096	0.032	0.032	0.026	
2	0.036	0.026	0.040	0.096	0.234	0.138	0.564	0.180	0.096	0.032	0.032	0.026	
3	0.036	0.028	0.040	0.110	0.207	0.138	0.488	0.180	0.096	0.032	0.032	0.026	
4	0.036	0.030	0.054	0.110	0.166	0.152	0.423	0.180	0.096	0.032	0.030	0.026	
5	0.036	0.040	0.054	0.124	0.166	0.138	0.369	0.166	0.082	0.032	0.030	0.026	
6	0.036	0.054	0.054	0.124	0.180	0.124	0.342	0.166	0.082	0.032	0.034	0.026	
7	0.036	0.036	0.068	0.152	0.166	0.124	0.315	0.166	0.082	0.030	0.036	0.026	
8	0.036	0.036	0.082	0.261	0.166	0.138	0.261	0.152	0.082	0.030	0.036	0.026	
9	0.034	0.034	0.152	0.450	0.166	0.261	0.261	0.152	0.082	0.030	0.036	0.026	
10	0.040	0.032	0.110	0.602	0.234	2.750	0.369	0.152	0.082	0.030	0.034	0.026	
11	0.082	0.032	0.110	0.396	0.180	0.716	0.678	0.152	0.068	0.030	0.034	0.024	
12	0.082	0.032	0.082	0.315	0.342	0.396	0.754	0.138	0.068	0.030	0.034	0.024	
13	0.082	0.030	0.082	0.180	0.288	0.342	0.488	0.124	0.068	0.038	0.032	0.024	
14	0.082	0.030	0.110	0.138	0.288	0.261	0.342	0.110	0.054	0.038	0.032	0.024	
15	0.054	0.030	0.152	0.138	0.288	0.234	0.342	0.110	0.040	0.038	0.032	0.024	
16	0.068	0.034	0.124	0.124	0.342	0.234	0.288	0.096	0.038	0.036	0.032	0.024	
17	0.068	0.032	0.096	0.110	0.369	1.125	0.234	0.096	0.038	0.036	0.030	0.024	
18	0.068	0.030	0.068	0.110	0.369	1.586	0.207	0.082	0.038	0.036	0.030	0.024	
19	0.054	0.036	0.068	0.096	0.342	0.754	0.207	0.082	0.038	0.036	0.030	0.024	
20	0.054	0.036	0.040	0.110	0.261	0.526	0.207	0.082	0.036	0.036	0.028	0.024	
21	0.054	0.036	0.054	0.096	0.180	0.450	0.180	0.082	0.036	0.036	0.026	0.022	
22	0.054	0.038	0.096	0.096	0.166	0.830	0.180	0.082	0.036	0.036	0.026	0.022	
23	0.040	0.038	0.110	0.082	0.138	0.792	0.166	0.082	0.036	0.036	0.024	0.022	
24	0.040	0.054	0.082	0.096	0.261	1.243	0.152	0.082	0.036	0.034	0.024	0.022	
25	0.040	0.054	0.082	0.096	0.207	*******	0.152	0.068	0.034	0.034	0.026	0.022	
26	0.040	0.054	0.082	0.124	0.207	*******	0.261	0.068	0.034	0.034	0.026	0.022	
27	0.038	0.096	0.068	0.261	0.207	*******	0.234	0.068	0.034	0.034	0.026	0.022	
28	0.030	0.096	0.124	0.152	0.166	*******	0.261	0.054	0.034	0.034	0.024	0.022	
29	0.028	0.096	0.110	0.124	0.152	*******	0.261	0.054	0.034	0.034		0.022	
30	0.028	0.082	0.096	0.124	0.152	*******	0.234	0.054	0.032	0.034		0.022	
31		0.054		0.234	0.138		0.234		0.032	0.032		0.020	
TOTAL	1.448	1.364	2.544	5.327	6.962	*******	10.094	3.467	1.740	1.044	0.848	0.740	******** CMSDAY
MEAN	0.048	0.044	0.085	0.172	0.225	*******	0.326	0.116	0.056	0.034	0.030	0.024	******** CMS
MAX	0.082	0.096	0.152	0.602	0.369	2.750	0.754	0.207	0.096	0.038	0.036	0.026	2.750 CMS
MIN	0.028	0.026	0.040	0.082	0.138	*******	0.152	0.054	0.032	0.030	0.024	0.020	******** CMS
RUNOFF	0.125	0.118	0.220	0.460	0.602	*******	0.872	0.300	0.150	0.090	0.073	0.064	******** MCM

MOMENTARY PEAK 2.87 CMS, AT 528.45 M (MSL), AT 16.00 HOURS, ON SEP 18, 1982
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 205.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

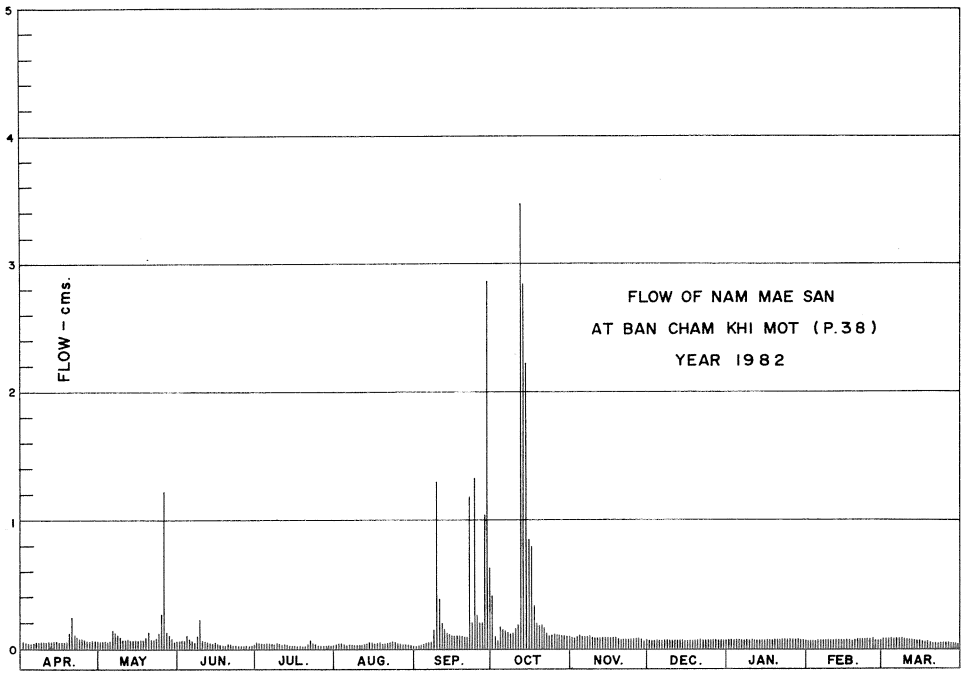
NAM MAE SAN AT BAN CHAM KHI MOT, LAMPHUN (P.38)

LOCATION	LAT. 18°-30'-41" N., LONG. 99°-08'-09" E., ON LEFT BANK ABOUT 50 METERS DOWNSTREAM FROM CENTER LINE DAMSITE AT BAN CHAM KHI MOT, AMPHOE MAE THA, LAMPHUN.
DRAINAGE AREA	34 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	373.10 M. (M.S.L.)
BENCH MARK	B.M.-T.S.D.
LOCATION	ON LEFT BANK ABOUT 7.00 METERS UPSTREAM FROM THE GAGE SITE.
ELEVATION	+375.00 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	373.74	373.75	373.75	373.72	373.69	373.68	374.00	373.80	373.77	373.76	373.76	373.79	
2	373.73	373.75	373.74	373.71	373.70	373.68	373.81	373.80	373.77	373.76	373.76	373.79	
3	373.73	373.75	373.73	373.70	373.69	373.68	373.75	373.81	373.77	373.76	373.76	373.79	
4	373.73	373.75	373.81	373.70	373.68	373.69	373.89	373.81	373.77	373.76	373.76	373.79	
5	373.73	373.75	373.78	373.69	373.68	373.71	373.87	373.80	373.76	373.76	373.76	373.79	
6	373.73	373.86	373.75	373.69	373.69	373.72	373.86	373.80	373.76	373.76	373.76	373.79	
7	373.74	373.83	373.73	373.69	373.69	373.71	373.86	373.81	373.76	373.76	373.76	373.78	
8	373.74	373.82	373.74	373.68	373.68	373.85	373.84	373.81	373.76	373.76	373.76	373.78	
9	373.74	373.81	373.93	373.72	373.67	374.34	373.84	373.80	373.76	373.76	373.76	373.78	
10	373.74	373.77	373.76	373.70	373.67	374.03	373.88	373.80	373.76	373.76	373.76	373.77	
11	373.74	373.77	373.74	373.70	373.67	373.93	373.91	373.80	373.76	373.76	373.76	373.77	
12	373.75	373.77	373.73	373.70	373.68	373.87	374.85	373.80	373.76	373.76	373.76	373.77	
13	373.75	373.76	373.71	373.69	373.72	373.86	374.67	373.80	373.76	373.76	373.76	373.77	
14	373.75	373.76	373.70	373.68	373.72	373.84	374.54	373.80	373.76	373.76	373.77	373.76	
15	373.75	373.76	373.72	373.67	373.71	373.83	374.22	373.80	373.76	373.76	373.77	373.76	
16	373.75	373.76	373.70	373.67	373.70	373.82	374.18	373.80	373.76	373.76	373.77	373.75	
17	373.75	373.76	373.69	373.67	373.72	373.82	374.03	373.80	373.76	373.76	373.77	373.75	
18	373.75	373.76	373.68	373.66	373.72	373.83	373.92	373.80	373.76	373.76	373.77	373.74	
19	373.80	373.79	373.68	373.66	373.69	373.82	373.91	373.79	373.76	373.76	373.77	373.73	
20	373.94	373.86	373.67	373.67	373.73	373.82	373.91	373.79	373.76	373.76	373.78	373.73	
21	373.83	373.77	373.69	373.68	373.72	373.80	373.88	373.79	373.76	373.76	373.78	373.73	
22	373.80	373.78	373.68	373.75	373.72	374.31	373.83	373.79	373.76	373.76	373.78	373.73	
23	373.79	373.79	373.68	373.70	373.75	373.92	373.83	373.79	373.76	373.76	373.78	373.73	
24	373.78	373.85	373.68	373.69	373.72	374.35	373.83	373.79	373.76	373.76	373.78	373.72	
25	373.78	373.95	373.68	373.68	373.72	373.95	373.84	373.79	373.76	373.76	373.78	373.72	
26	373.77	374.32	373.68	373.67	373.69	373.91	373.84	373.78	373.76	373.76	373.77	373.72	
27	373.77	373.86	373.68	373.68	373.69	373.92	373.83	373.78	373.76	373.76	373.77	373.71	
28	373.76	373.83	373.68	373.68	373.69	374.17	373.82	373.77	373.76	373.76	373.77	373.71	
29	373.76	373.81	373.67	373.68	373.69	374.73	373.81	373.77	373.76	373.76		373.70	
30	373.76	373.77	373.69	373.68	373.68	374.14	373.81	373.77	373.76	373.76		373.70	
31		373.75		373.67	373.68		373.81		373.76	373.76		373.69	
MEAN	373.76	373.81	373.72	373.69	373.70	373.92	373.96	373.79	373.76	373.76	373.77	373.75	
MAX	373.94	374.32	373.93	373.75	373.75	374.73	374.85	373.81	373.77	373.76	373.78	373.79	374.85
MIN	373.73	373.75	373.67	373.66	373.67	373.68	373.75	373.77	373.76	373.76	373.76	373.69	373.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 374.90 M (MSL), AT 16.00 HOURS, ON OCT 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 373.10 M (MSL), RIVER BED 373.45 M (MSL)
LEFT BANK ELEVATION 376.28 M (MSL)
RIGHT BANK ELEVATION 376.12 M (MSL), DRAINAGE AREA 34 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.06	0.06	0.04	0.03	0.02	0.35	0.08	0.07	0.06	0.06	0.08	
2	0.05	0.06	0.05	0.03	0.03	0.02	0.09	0.08	0.07	0.06	0.06	0.08	
3	0.05	0.06	0.05	0.03	0.03	0.02	0.06	0.09	0.07	0.06	0.06	0.08	
4	0.05	0.06	0.09	0.03	0.02	0.03	0.15	0.09	0.07	0.06	0.06	0.08	
5	0.05	0.06	0.07	0.03	0.02	0.03	0.14	0.08	0.06	0.06	0.06	0.08	
6	0.05	0.13	0.06	0.03	0.03	0.04	0.13	0.08	0.06	0.06	0.06	0.08	
7	0.05	0.10	0.05	0.03	0.03	0.03	0.13	0.09	0.06	0.06	0.06	0.07	
8	0.05	0.10	0.05	0.02	0.02	0.12	0.11	0.09	0.06	0.06	0.06	0.07	
9	0.05	0.09	0.22	0.04	0.02	1.29	0.11	0.08	0.06	0.06	0.06	0.07	
10	0.05	0.07	0.06	0.03	0.02	0.41	0.14	0.08	0.06	0.06	0.06	0.07	
11	0.05	0.07	0.05	0.03	0.02	0.22	0.18	0.08	0.06	0.06	0.06	0.07	
12	0.06	0.07	0.05	0.03	0.02	0.14	3.47	0.08	0.06	0.06	0.06	0.07	
13	0.06	0.06	0.03	0.03	0.04	0.13	2.59	0.08	0.06	0.06	0.06	0.07	
14	0.06	0.06	0.03	0.02	0.04	0.11	2.06	0.08	0.06	0.06	0.07	0.06	
15	0.06	0.06	0.04	0.02	0.03	0.10	0.90	0.08	0.06	0.06	0.07	0.06	
16	0.06	0.06	0.03	0.02	0.03	0.10	0.78	0.08	0.06	0.06	0.07	0.06	
17	0.06	0.06	0.03	0.02	0.04	0.10	0.41	0.08	0.06	0.06	0.07	0.06	
18	0.06	0.06	0.02	0.02	0.04	0.10	0.20	0.08	0.06	0.06	0.07	0.05	
19	0.08	0.08	0.02	0.02	0.03	0.10	0.18	0.08	0.06	0.06	0.07	0.05	
20	0.24	0.13	0.02	0.02	0.05	0.10	0.18	0.08	0.06	0.06	0.07	0.05	
21	0.10	0.07	0.03	0.02	0.04	0.08	0.14	0.08	0.06	0.06	0.07	0.05	
22	0.08	0.07	0.02	0.06	0.04	1.19	0.10	0.08	0.06	0.06	0.07	0.05	
23	0.08	0.08	0.02	0.03	0.06	0.20	0.10	0.08	0.06	0.06	0.07	0.05	
24	0.07	0.12	0.02	0.03	0.04	1.33	0.10	0.08	0.06	0.06	0.07	0.04	
25	0.07	0.26	0.02	0.02	0.04	0.26	0.11	0.08	0.06	0.06	0.07	0.04	
26	0.07	1.22	0.02	0.02	0.03	0.18	0.11	0.07	0.06	0.06	0.07	0.04	
27	0.07	0.13	0.02	0.02	0.03	0.20	0.10	0.07	0.06	0.06	0.07	0.03	
28	0.06	0.10	0.02	0.02	0.03	0.75	0.10	0.07	0.06	0.06	0.07	0.03	
29	0.06	0.09	0.02	0.02	0.03	2.86	0.09	0.07	0.06	0.06		0.03	
30	0.06	0.07	0.03	0.02	0.02	0.67	0.09	0.07	0.06	0.06		0.03	
31		0.06		0.02	0.02		0.09		0.06	0.06		0.03	
TOTAL	2.01	3.77	1.30	0.82	0.97	10.93	13.49	2.39	1.90	1.86	1.83	1.78	43.05 CMSDAY
MEAN	0.07	0.12	0.04	0.03	0.03	0.36	0.44	0.08	0.06	0.06	0.07	0.06	0.12 CMS
MAX	0.24	1.22	0.22	0.06	0.06	2.86	3.47	0.09	0.07	0.06	0.07	0.08	3.47 CMS
MIN	0.05	0.06	0.02	0.02	0.02	0.02	0.06	0.07	0.06	0.06	0.06	0.03	0.02 CMS
RUNOFF	0.174	0.326	0.112	0.071	0.084	0.944	1.166	0.206	0.164	0.161	0.158	0.154	3.720 MCM

MOMENTARY PEAK 3.73 CMS, AT 374.90 M (MSL), AT 16.00 HOURS, ON OCT 10, 1982
RUNOFF YIELD 3.47 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.71 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

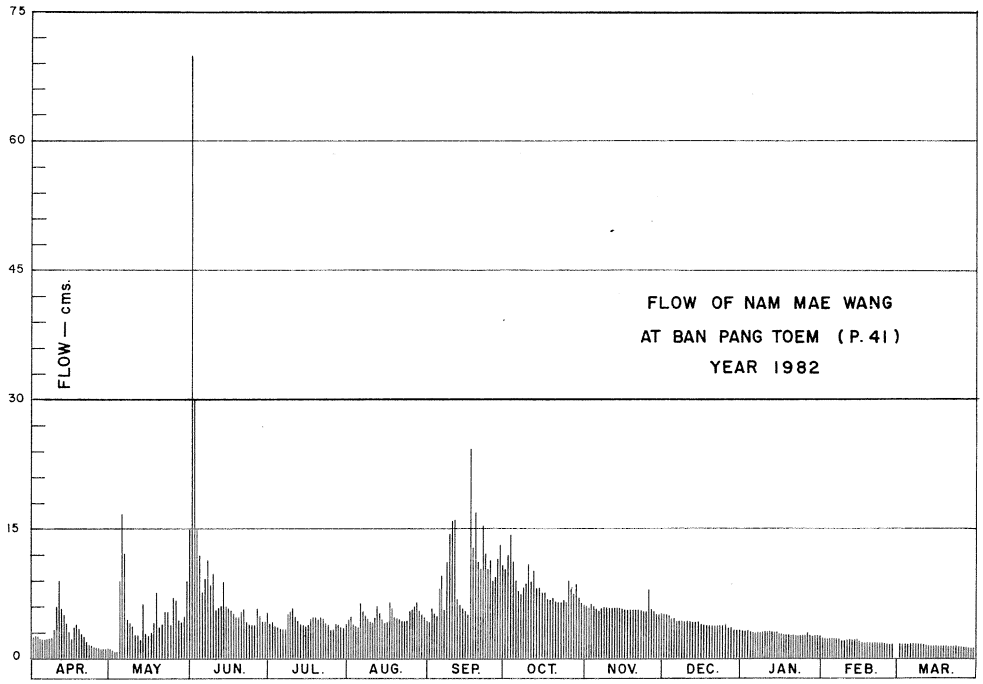
NAM MAE WANG AT BAN PANG TOEM, CHIANG MAI (P.41)

LOCATION	LAT. 18°-37′-00″ N., LONG. 98°-44′-43″ E., ON LEFT BANK ABOUT 1 KILOMETER FROM BAN PANG TOEM, AMPHOE SAN PA THONG, CHIANG MAI.
DRAINAGE AREA	426 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+322.20 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+329.595 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACK WATER EFFECT.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +326.67 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS POOR. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 130 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	322.83	322.82	324.68	322.98	322.99	322.98	323.22	323.06	323.02	322.95	322.92	322.89	
2	322.83	322.81	323.78	322.99	323.01	323.05	324.60	323.05	323.02	322.95	322.92	322.89	
3	322.83	322.81	323.43	322.97	322.97	323.02	323.37	323.07	323.01	322.95	322.92	322.89	
4	322.82	322.81	323.25	322.96	322.96	323.01	323.23	323.06	323.00	322.94	322.92	322.89	
5	322.82	323.45	323.18	322.96	322.96	323.14	323.18	323.05	323.00	322.94	322.92	322.89	
6	322.82	323.17	323.13	322.95	323.07	323.20	323.13	323.03	322.99	322.94	322.92	322.89	
7	322.82	322.99	323.27	322.95	323.02	323.04	323.11	323.05	322.99	322.94	322.92	322.89	
8	322.82	322.98	323.16	323.01	323.00	323.20	323.15	323.05	322.99	322.94	322.91	322.89	
9	322.89	322.96	323.21	323.03	322.99	323.37	323.17	323.05	322.99	322.94	322.91	322.89	
10	323.05	322.93	323.08	323.05	322.98	323.42	323.25	323.05	322.99	322.94	322.91	322.88	
11	323.18	322.93	323.05	323.01	323.00	323.18	323.18	323.05	322.99	322.94	322.91	322.88	
12	323.04	322.92	323.06	322.99	323.06	323.10	323.22	323.05	322.99	322.94	322.91	322.87	
13	323.00	322.91	323.17	322.98	323.01	323.06	323.15	323.05	322.99	322.94	322.91	322.87	
14	322.97	323.07	323.13	322.97	323.00	323.05	323.15	323.05	322.99	322.94	322.91	322.87	
15	322.92	322.93	323.05	322.96	322.98	323.03	323.13	323.05	322.98	322.93	322.91	322.87	
16	322.91	322.92	323.04	322.98	323.02	323.01	323.13	323.04	322.97	322.93	322.90	322.87	
17	322.96	322.95	323.02	323.00	323.08	323.67	323.09	323.04	322.97	322.93	322.90	322.87	
18	322.98	322.99	323.00	323.00	323.02	323.35	323.09	323.04	322.97	322.93	322.90	322.87	
19	322.93	323.12	323.00	323.00	322.99	323.45	323.10	323.04	322.97	322.93	322.90	322.86	
20	322.93	322.96	323.02	322.99	323.00	323.27	323.08	323.04	322.97	322.93	322.90	322.86	
21	322.92	322.98	323.04	323.01	322.99	323.23	323.08	323.04	322.97	322.93	322.90	322.86	
22	322.91	323.03	323.00	323.00	322.99	323.40	323.08	323.04	322.97	322.93	322.90	322.86	
23	322.88	323.03	322.98	322.98	322.99	323.30	323.09	323.03	322.97	322.93	322.90	322.86	
24	322.87	322.97	322.97	322.97	323.02	323.23	323.08	323.03	322.97	322.93	322.90	322.85	
25	322.86	323.10	322.97	322.95	323.04	323.26	323.18	323.14	322.97	322.93	322.90	322.85	
26	322.85	323.09	322.97	322.95	323.05	323.18	323.15	323.05	322.96	322.94	322.89	322.85	
27	322.85	322.99	323.00	322.98	323.07	323.20	323.12	323.04	322.96	322.93	322.89	322.85	
28	322.84	322.98	322.99	322.97	323.04	323.33	323.16	323.02	322.95	322.93	322.89	322.85	
29	322.84	322.98	322.98	322.96	323.02	323.25	323.11	323.02	322.95	322.93		322.85	
30	322.83	323.03	323.02	322.95	323.00	323.24	323.08	323.02	322.95	322.93		322.85	
31		323.35		322.98	322.99		323.07		322.95	322.93		322.85	
MEAN	322.90	323.00	323.15	322.98	323.01	323.21	323.19	323.05	322.98	322.94	322.91	322.87	
MAX	323.18	323.45	324.68	323.05	323.08	323.67	324.60	323.14	323.02	322.95	322.92	322.89	324.68
MIN	322.82	322.81	322.97	322.95	322.96	322.98	323.07	323.02	322.95	322.93	322.89	322.85	322.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 327.82 M (MSL), AT 1.00 HOURS, ON JUN 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 322.20 M (MSL), RIVER BED 322.52 M (MSL)
LEFT BANK ELEVATION 327.62 M (MSL)
RIGHT BANK ELEVATION 326.66 M (MSL), DRAINAGE AREA 426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.45	0.94	69.74	4.18	4.47	4.18	10.06	6.10	5.20	3.33	2.47	1.78	
2	2.45	0.82	28.16	4.47	4.98	5.88	65.50	5.88	5.20	3.33	2.47	1.78	
3	2.45	0.82	16.20	3.90	3.90	5.20	14.40	6.33	4.98	3.33	2.47	1.78	
4	2.30	0.82	10.90	3.61	3.61	4.98	10.34	6.10	4.75	3.04	2.47	1.78	
5	2.30	16.80	9.00	3.61	3.61	8.00	9.00	5.88	4.75	3.04	2.47	1.78	
6	2.30	8.75	7.75	3.33	6.33	9.50	7.75	5.42	4.47	3.04	2.47	1.78	
7	2.30	4.47	11.46	3.33	5.20	5.65	7.25	5.88	4.47	3.04	2.47	1.78	
8	2.30	4.18	8.50	4.98	4.75	9.50	8.25	5.88	4.47	3.04	2.19	1.78	
9	3.35	3.61	9.78	5.42	4.47	14.40	8.75	5.88	4.47	3.04	2.19	1.78	
10	5.88	2.76	6.55	5.88	4.18	15.90	10.90	5.88	4.47	3.04	2.19	1.66	
11	9.00	2.76	5.88	4.98	4.75	9.00	9.00	5.88	4.47	3.04	2.19	1.66	
12	5.65	2.47	6.10	4.47	6.10	7.00	10.06	5.88	4.47	3.04	2.19	1.54	
13	4.75	2.19	8.75	4.18	4.98	6.10	8.25	5.88	4.47	3.04	2.19	1.54	
14	3.90	6.33	7.75	3.90	4.75	5.88	8.25	5.88	4.47	3.04	2.19	1.54	
15	2.47	2.76	5.88	3.61	4.18	5.42	7.75	5.88	4.18	2.76	2.19	1.54	
16	2.19	2.47	5.65	4.18	5.20	4.98	7.75	5.65	3.90	2.76	1.90	1.54	
17	3.61	3.33	5.20	4.75	6.55	24.15	6.78	5.65	3.90	2.76	1.90	1.54	
18	4.18	4.47	4.75	4.75	5.20	13.80	6.78	5.65	3.90	2.76	1.90	1.54	
19	2.76	7.50	4.75	4.75	4.47	16.80	7.00	5.65	3.90	2.76	1.90	1.42	
20	2.76	3.61	5.20	4.47	4.75	11.46	6.55	5.65	3.90	2.76	1.90	1.42	
21	2.47	4.18	5.65	4.98	4.47	10.34	6.55	5.65	3.90	2.76	1.90	1.42	
22	2.19	5.42	4.75	4.75	4.47	15.30	6.55	5.65	3.90	2.76	1.90	1.42	
23	1.66	5.42	4.18	4.18	4.47	12.30	6.78	5.42	3.90	2.76	1.90	1.42	
24	1.54	3.90	3.90	3.90	5.20	10.34	6.55	5.42	3.90	2.76	1.90	1.30	
25	1.42	7.00	3.90	3.33	5.65	11.18	9.00	8.00	3.90	2.76	1.90	1.30	
26	1.30	6.78	3.90	3.33	5.88	9.00	8.25	5.88	3.61	3.04	1.78	1.30	
27	1.30	4.47	4.75	4.18	6.33	9.50	7.50	5.65	3.61	2.76	1.78	1.30	
28	1.18	4.18	4.47	3.90	5.65	13.20	8.50	5.20	3.33	2.76	1.78	1.30	
29	1.18	4.18	4.18	3.61	5.20	10.90	7.25	5.20	3.33	2.76		1.30	
30	1.06	5.42	5.20	3.33	4.75	10.62	6.55	5.20	3.33	2.76		1.30	
31		13.80		4.18	4.47		6.33		3.33	2.76		1.30	
TOTAL	84.65	146.61	282.83	130.42	152.97	300.46	310.18	174.15	128.83	90.63	59.15	47.62	1908.50 CMSDAY
MEAN	2.82	4.73	9.43	4.21	4.93	10.02	10.01	5.80	4.16	2.92	2.11	1.54	5.23 CMS
MAX	9.00	16.80	69.74	5.88	6.55	24.15	65.50	8.00	5.20	3.33	2.47	1.78	69.74 CMS
MIN	1.06	0.82	3.90	3.33	3.61	4.18	6.33	5.20	3.33	2.76	1.78	1.30	0.82 CMS
RUNOFF	7.314	12.667	24.437	11.268	13.217	25.960	26.800	15.047	11.131	7.830	5.111	4.114	164.894 MCM

MOMENTARY PEAK 307.00 CMS, AT 327.82 M (MSL), AT 1.00 HOURS, ON JUN 1, 1982

RUNOFF YIELD 12.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 720.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PING RIVER BASIN

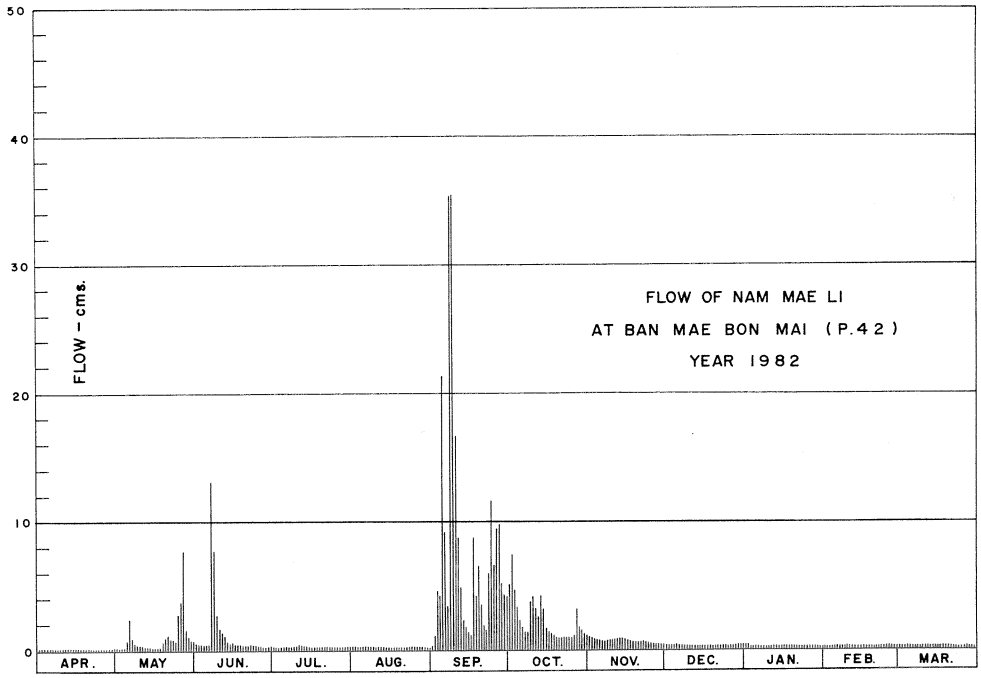
NAM MAE LI AT BAN MAE BON MAI, LAMPHUN (P.42)

LOCATION	LAT. 17°-53'-16" N., LONG. 99°-05'-20" E., ON RIGHT BANK AT BAN MAE BON MAI, KING AMPHOE THUNG HUA CHANG, LAMPHUN.
DRAINAGE AREA	315 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+500.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE TOP OF STAFF GAGE.
ELEVATION	+505.708 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.32	500.31	500.57	500.43	500.44	500.42	501.21	500.70	500.53	500.45	500.42	500.43	
2	500.32	500.31	500.55	500.43	500.44	500.68	501.44	500.69	500.53	500.45	500.42	500.43	
3	500.31	500.31	500.55	500.43	500.44	501.16	501.18	500.68	500.53	500.45	500.42	500.43	
4	500.31	500.31	500.52	500.43	500.44	501.12	501.03	500.66	500.52	500.44	500.42	500.43	
5	500.31	500.34	500.52	500.43	500.44	502.24	500.93	500.64	500.51	500.44	500.42	500.43	
6	500.32	500.93	500.53	500.43	500.43	501.41	500.84	500.64	500.51	500.44	500.42	500.43	
7	500.32	500.69	501.83	500.43	500.43	501.04	500.77	500.64	500.50	500.44	500.42	500.43	
8	500.32	500.56	501.54	500.43	500.43	502.81	500.78	500.64	500.49	500.44	500.42	500.43	
9	500.32	500.52	501.01	500.47	500.43	502.81	501.06	500.65	500.49	500.44	500.41	500.43	
10	500.32	500.51	500.85	500.49	500.43	502.04	501.11	500.65	500.49	500.44	500.41	500.43	
11	500.32	500.50	500.81	500.48	500.43	501.64	501.06	500.65	500.48	500.44	500.41	500.43	
12	500.33	500.47	500.70	500.52	500.43	501.20	500.96	500.65	500.47	500.44	500.41	500.43	
13	500.33	500.44	500.63	500.47	500.43	500.95	501.11	500.65	500.47	500.44	500.41	500.43	
14	500.33	500.41	500.53	500.45	500.43	500.84	501.01	500.65	500.47	500.43	500.44	500.42	
15	500.33	500.39	500.56	500.44	500.43	500.76	500.83	500.65	500.47	500.43	500.45	500.42	
16	500.33	500.39	500.53	500.44	500.43	500.71	500.77	500.64	500.47	500.43	500.45	500.42	
17	500.38	500.39	500.52	500.44	500.43	501.54	500.75	500.63	500.47	500.42	500.45	500.42	
18	500.34	500.39	500.50	500.44	500.42	501.12	500.73	500.62	500.46	500.42	500.45	500.42	
19	500.34	500.39	500.48	500.43	500.42	501.38	500.69	500.62	500.46	500.42	500.45	500.42	
20	500.34	500.66	500.46	500.42	500.43	501.04	500.69	500.61	500.46	500.42	500.45	500.42	
21	500.33	500.75	500.46	500.41	500.43	500.88	500.69	500.61	500.46	500.42	500.44	500.41	
22	500.33	500.66	500.46	500.41	500.43	500.81	500.68	500.60	500.46	500.44	500.44	500.41	
23	500.33	500.65	500.45	500.41	500.43	501.39	500.69	500.60	500.46	500.43	500.44	500.39	
24	500.32	500.56	500.45	500.43	500.43	501.73	500.68	500.59	500.46	500.43	500.44	500.39	
25	500.32	500.98	500.45	500.44	500.43	501.36	500.69	500.57	500.46	500.43	500.44	500.39	
26	500.32	501.07	500.45	500.44	500.43	501.59	500.71	500.59	500.46	500.43	500.44	500.39	
27	500.32	501.46	500.44	500.44	500.43	501.63	501.02	500.57	500.45	500.43	500.44	500.39	
28	500.32	500.87	500.44	500.43	500.42	501.24	500.83	500.55	500.45	500.43	500.44	500.39	
29	500.31	500.71	500.43	500.43	500.42	501.14	500.78	500.53	500.45	500.43		500.39	
30	500.31	500.64	500.43	500.42	500.43	501.10	500.74	500.53	500.45	500.43		500.39	
31		500.63		500.42	500.43		500.72		500.45	500.43		500.39	
MEAN	500.33	500.59	500.62	500.44	500.43	501.33	500.88	500.62	500.48	500.43	500.43	500.41	
MAX	500.38	501.46	501.83	500.52	500.44	502.81	501.44	500.70	500.53	500.45	500.45	500.43	502.81
MIN	500.31	500.31	500.43	500.41	500.42	500.42	500.68	500.53	500.45	500.42	500.41	500.39	500.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 504.27 M (MSL), AT 23.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 500.10 M (MSL), RIVER BED 500.42 M (MSL)
LEFT BANK ELEVATION 506.93 M (MSL)
RIGHT BANK ELEVATION 505.23 M (MSL), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.02	0.54	0.26	0.28	0.24	5.10	1.00	0.46	0.30	0.24	0.26	
2	0.04	0.02	0.50	0.26	0.28	0.92	7.40	0.96	0.46	0.30	0.24	0.26	
3	0.02	0.02	0.50	0.26	0.28	4.60	4.80	0.92	0.46	0.30	0.24	0.26	
4	0.02	0.02	0.44	0.26	0.28	4.20	3.30	0.84	0.44	0.28	0.24	0.26	
5	0.02	0.08	0.44	0.26	0.28	21.30	2.30	0.76	0.42	0.28	0.24	0.26	
6	0.04	2.30	0.46	0.26	0.26	7.10	1.70	0.76	0.42	0.28	0.24	0.26	
7	0.04	0.96	13.10	0.26	0.26	3.40	1.35	0.76	0.40	0.28	0.24	0.26	
8	0.04	0.52	8.60	0.26	0.26	35.30	1.40	0.76	0.38	0.28	0.24	0.26	
9	0.04	0.44	3.10	0.34	0.26	35.30	3.60	0.80	0.38	0.28	0.22	0.26	
10	0.04	0.42	1.75	0.30	0.26	17.30	4.10	0.80	0.38	0.28	0.22	0.26	
11	0.04	0.40	1.55	0.36	0.26	10.10	3.60	0.80	0.36	0.28	0.22	0.26	
12	0.06	0.34	1.00	0.44	0.26	5.00	2.60	0.80	0.34	0.28	0.22	0.26	
13	0.06	0.28	0.72	0.34	0.26	2.50	4.10	0.80	0.34	0.28	0.22	0.26	
14	0.06	0.22	0.46	0.30	0.26	1.70	3.10	0.80	0.34	0.26	0.28	0.24	
15	0.06	0.18	0.52	0.28	0.26	1.30	1.65	0.80	0.34	0.26	0.30	0.24	
16	0.06	0.18	0.46	0.28	0.26	1.05	1.35	0.76	0.34	0.26	0.30	0.24	
17	0.16	0.18	0.44	0.28	0.26	8.60	1.25	0.72	0.34	0.24	0.30	0.24	
18	0.08	0.18	0.40	0.28	0.24	4.20	1.15	0.68	0.32	0.24	0.30	0.24	
19	0.08	0.18	0.36	0.26	0.24	6.80	0.96	0.68	0.32	0.24	0.30	0.24	
20	0.08	0.84	0.32	0.24	0.26	3.40	0.96	0.64	0.32	0.24	0.30	0.24	
21	0.06	1.25	0.32	0.22	0.26	1.90	0.96	0.64	0.32	0.24	0.28	0.22	
22	0.06	0.84	0.32	0.22	0.26	1.55	0.92	0.60	0.32	0.28	0.28	0.22	
23	0.06	0.80	0.30	0.22	0.26	6.90	0.96	0.60	0.32	0.26	0.28	0.18	
24	0.04	0.52	0.30	0.26	0.26	11.45	0.92	0.58	0.32	0.26	0.28	0.18	
25	0.04	2.80	0.30	0.28	0.26	6.60	0.96	0.54	0.32	0.26	0.28	0.18	
26	0.04	3.70	0.30	0.28	0.26	9.35	1.05	0.58	0.32	0.26	0.28	0.18	
27	0.04	7.60	0.28	0.28	0.26	9.95	3.20	0.54	0.30	0.26	0.28	0.18	
28	0.04	1.85	0.28	0.26	0.24	5.40	1.65	0.50	0.30	0.26	0.28	0.18	
29	0.02	1.05	0.26	0.26	0.24	4.40	1.40	0.46	0.30	0.26		0.18	
30	0.02	0.76	0.26	0.24	0.26	4.00	1.20	0.46	0.30	0.26		0.18	
31		0.72		0.24	0.26		1.10		0.30	0.26		0.18	
TOTAL	1.50	29.67	38.58	8.62	8.08	235.81	70.09	21.34	10.98	8.30	7.34	7.12	447.43 CMSDAY
MEAN	0.05	0.96	1.29	0.28	0.26	7.86	2.26	0.71	0.35	0.27	0.26	0.23	1.23 CMS
MAX	0.16	7.60	13.10	0.44	0.28	35.30	7.40	1.00	0.46	0.30	0.30	0.26	35.30 CMS
MIN	0.02	0.02	0.26	0.22	0.24	0.24	0.92	0.46	0.30	0.24	0.22	0.18	0.02 CMS
RUNOFF	0.130	2.563	3.333	0.745	0.698	20.374	6.056	1.844	0.949	0.717	0.634	0.615	38.658 MCM

MOMENTARY PEAK 86.80 CMS, AT 504.27 M (MSL), AT 23.00 HOURS, ON SEP 8, 1982
RUNOFF YIELD 3.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 275.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

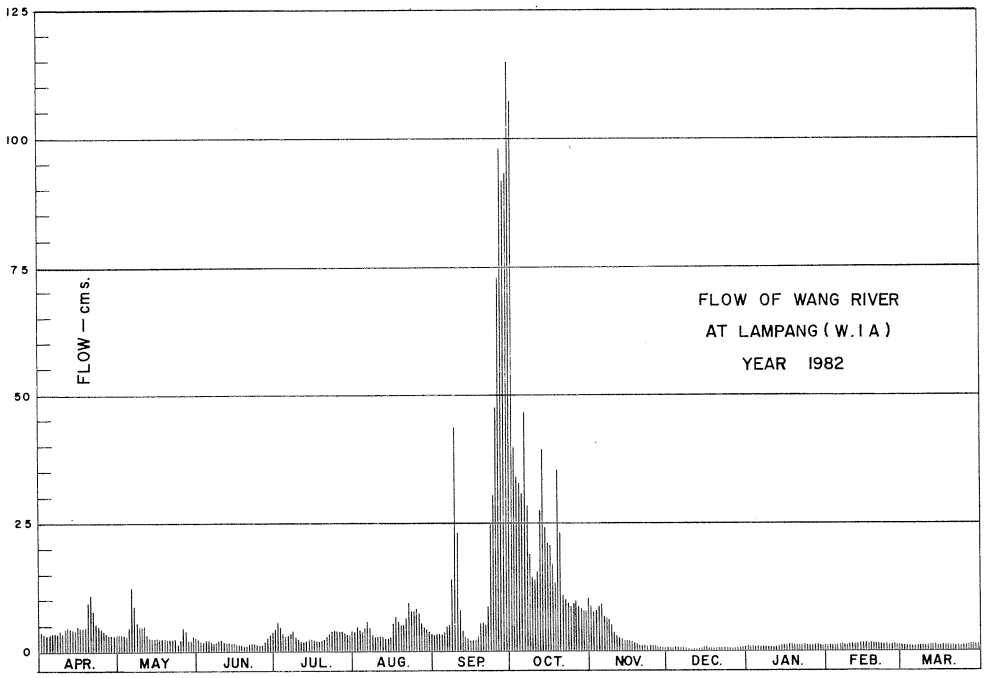
WANG RIVER AT LAMPANG, LAMPANG (W.1A)

LOCATION	LAT. 18°-17'-24" N., LONG. 99°-29'-40" E., ON LEFT BANK ABOUT 300 METERS UPSTREAM FROM PHATTHANA PHAK NUA 1,AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	3,481 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+227.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP OF STAFF GAGE.
ELEVATION	+234.247 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 68 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	228.00	227.99	227.89	228.04	228.02	227.98	230.22	228.26	227.76	227.79	227.81	227.82	
2	227.99	227.99	227.87	228.11	228.06	227.99	229.11	228.21	227.76	227.79	227.81	227.81	
3	227.98	227.98	227.87	228.08	228.04	227.99	228.98	228.21	227.75	227.79	227.80	227.80	
4	227.97	227.97	227.89	227.98	228.02	227.99	228.95	228.25	227.75	227.79	227.81	227.79	
5	228.00	228.05	227.90	227.97	228.06	228.01	228.90	228.26	227.75	227.78	227.81	227.79	
6	228.01	228.39	227.88	227.97	228.13	228.08	229.24	228.18	227.75	227.78	227.83	227.79	
7	228.00	228.25	227.83	227.98	228.06	228.08	228.88	228.17	227.76	227.78	227.84	227.80	
8	228.02	228.13	227.84	228.03	227.98	228.49	228.61	228.15	227.75	227.78	227.82	227.81	
9	228.01	228.06	227.85	227.96	227.96	229.19	228.47	228.12	227.71	227.77	227.82	227.79	
10	228.05	228.07	227.91	227.93	227.95	228.75	228.44	228.03	227.71	227.77	227.84	227.79	
11	228.06	228.08	227.88	227.90	227.95	228.31	228.48	228.01	227.70	227.76	227.83	227.81	
12	228.05	227.99	227.87	227.86	227.95	228.08	228.78	227.97	227.70	227.79	227.83	227.81	
13	228.02	227.93	227.85	227.87	227.93	227.97	229.10	227.94	227.70	227.80	227.83	227.81	
14	228.03	227.91	227.83	227.89	227.93	227.93	228.75	227.92	227.71	227.80	227.84	227.81	
15	228.08	227.91	227.83	227.90	227.95	227.91	228.66	227.90	227.75	227.80	227.85	227.79	
16	228.05	227.91	227.81	227.90	228.11	227.89	228.64	227.90	227.75	227.81	227.85	227.79	
17	228.06	227.91	227.83	227.88	228.17	227.91	228.52	227.90	227.73	227.82	227.85	227.79	
18	228.07	227.91	227.81	227.87	228.12	227.96	228.42	227.88	227.73	227.84	227.85	227.80	
19	228.28	227.91	227.78	227.89	228.08	228.11	229.01	227.86	227.73	227.81	227.85	227.80	
20	228.33	227.91	227.80	227.91	228.10	228.12	228.71	227.84	227.73	227.81	227.85	227.80	
21	228.25	227.91	227.83	227.95	228.15	228.09	228.34	227.81	227.74	227.81	227.85	227.81	
22	228.12	227.91	227.82	227.99	228.29	228.27	228.30	227.80	227.73	227.82	227.84	227.80	
23	228.08	227.91	227.81	228.02	228.22	228.76	228.27	227.81	227.73	227.83	227.84	227.79	
24	228.07	227.82	227.81	228.03	228.21	228.92	228.26	227.81	227.74	227.83	227.83	227.79	
25	228.04	227.86	227.81	228.02	228.24	229.31	228.27	227.81	227.74	227.81	227.83	227.79	
26	228.02	228.05	227.83	228.02	228.19	229.66	228.30	227.80	227.73	227.82	227.84	227.79	
27	227.99	228.05	227.88	228.03	228.10	230.10	228.26	227.78	227.73	227.82	227.84	227.80	
28	227.97	227.91	227.93	228.01	228.06	230.01	228.23	227.78	227.74	227.83	227.83	227.82	
29	227.97	227.89	227.98	227.98	228.04	230.03	228.21	227.77	227.73	227.81		227.83	
30	227.98	227.94	228.02	227.97	228.02	230.33	228.22	227.77	227.74	227.81		227.83	
31		227.94		228.03	228.00		228.32		227.76	227.81		227.82	
MEAN	228.05	227.98	227.86	227.97	228.07	228.54	228.64	227.96	227.74	227.80	227.83	227.80	
MAX	228.33	228.39	228.02	228.11	228.29	230.33	230.22	228.26	227.76	227.84	227.85	227.83	230.33
MIN	227.97	227.82	227.78	227.86	227.93	227.89	228.21	227.77	227.70	227.76	227.80	227.79	227.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 230.36 M (MSL), AT 10.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 227.80 M (MSL), RIVER BED 227.22 M (MSL)
LEFT BANK ELEVATION 234.49 M (MSL)
RIGHT BANK ELEVATION 234.48 M (MSL), DRAINAGE AREA 3481 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.50	3.37	2.10	4.26	3.88	3.24	106.48	9.04	0.88	1.12	1.30	1.40	
2	3.37	3.37	1.90	5.62	4.64	3.37	40.09	7.84	0.88	1.12	1.30	1.30	
3	3.24	3.24	1.90	5.02	4.26	3.37	34.34	7.84	0.80	1.12	1.20	1.20	
4	3.11	3.11	2.10	3.24	3.88	3.37	33.05	8.80	0.80	1.12	1.30	1.12	
5	3.50	4.45	2.20	3.11	4.64	3.69	30.90	9.04	0.80	1.04	1.30	1.12	
6	3.69	12.61	2.00	3.11	6.06	5.02	46.50	7.16	0.80	1.04	1.50	1.12	
7	3.50	8.80	1.50	3.24	4.64	5.02	30.06	6.94	0.88	1.04	1.60	1.20	
8	3.88	6.06	1.60	4.07	3.24	15.69	19.65	6.50	0.80	1.04	1.40	1.30	
9	3.69	4.64	1.70	2.98	2.98	44.01	15.07	5.84	0.48	0.96	1.40	1.12	
10	4.45	4.83	2.33	2.59	2.85	24.75	14.14	4.07	0.48	0.96	1.60	1.12	
11	4.64	5.02	2.00	2.20	2.85	10.29	15.38	3.69	0.40	0.88	1.50	1.30	
12	4.45	3.37	1.90	1.80	2.85	5.02	25.92	3.11	0.40	1.12	1.50	1.30	
13	3.88	2.59	1.70	1.90	2.59	3.11	39.60	2.72	0.40	1.20	1.50	1.30	
14	4.07	2.33	1.50	2.10	2.59	2.59	24.75	2.46	0.48	1.20	1.60	1.30	
15	5.02	2.33	1.50	2.20	2.85	2.33	21.40	2.20	0.80	1.20	1.70	1.12	
16	4.45	2.33	1.30	2.20	5.62	2.10	20.70	2.20	0.80	1.30	1.70	1.12	
17	4.64	2.33	1.50	2.00	6.94	2.33	16.66	2.20	0.64	1.40	1.70	1.12	
18	4.83	2.33	1.30	1.90	5.84	2.98	13.52	2.00	0.64	1.60	1.70	1.20	
19	9.52	2.33	1.04	2.10	5.02	5.62	35.64	1.80	0.64	1.30	1.70	1.20	
20	10.87	2.33	1.20	2.33	5.40	5.84	23.19	1.60	0.64	1.30	1.70	1.20	
21	8.80	2.33	1.50	2.85	6.50	5.21	11.16	1.30	0.72	1.30	1.70	1.30	
22	5.84	2.33	1.40	3.37	9.76	9.28	10.00	1.20	0.64	1.40	1.60	1.20	
23	5.02	2.33	1.30	3.88	8.08	25.14	9.28	1.30	0.64	1.50	1.60	1.12	
24	4.83	1.40	1.30	4.07	7.84	31.76	9.04	1.30	0.72	1.50	1.50	1.12	
25	4.26	1.80	1.30	3.88	8.56	50.00	9.28	1.30	0.72	1.30	1.50	1.12	
26	3.88	4.45	1.50	3.88	7.38	69.20	10.00	1.20	0.64	1.40	1.60	1.12	
27	3.37	4.45	2.00	4.07	5.40	98.00	9.04	1.04	0.64	1.40	1.60	1.20	
28	3.11	2.33	2.59	3.69	4.64	91.70	8.32	1.04	0.72	1.50	1.50	1.40	
29	3.11	2.10	3.24	3.24	4.26	93.10	7.84	0.96	0.64	1.30		1.50	
30	3.24	2.72	3.88	3.11	3.88	114.62	8.08	0.96	0.72	1.30		1.50	
31		2.72		4.07	3.50		10.58		0.88	1.30		1.40	
TOTAL	137.76	110.73	54.28	98.08	153.42	741.75	709.66	108.65	21.12	38.26	42.80	38.14	2254.65 CMSDAY
MEAN	4.59	3.57	1.81	3.16	4.95	24.73	22.89	3.62	0.68	1.23	1.53	1.23	6.18 CMS
MAX	10.87	12.61	3.88	5.62	9.76	114.62	106.48	9.04	0.88	1.60	1.70	1.50	114.62 CMS
MIN	3.11	1.40	1.04	1.80	2.59	2.10	7.84	0.96	0.40	0.88	1.20	1.12	0.40 CMS
RUNOFF	11.902	9.567	4.690	8.474	13.255	64.087	61.315	9.387	1.825	3.306	3.698	3.295	194.802 MCM

MOMENTARY PEAK 116.84 CMS, AT 230.36 M (MSL), AT 10.00 HOURS, ON SEP 30, 1982

RUNOFF YIELD 1.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 33.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

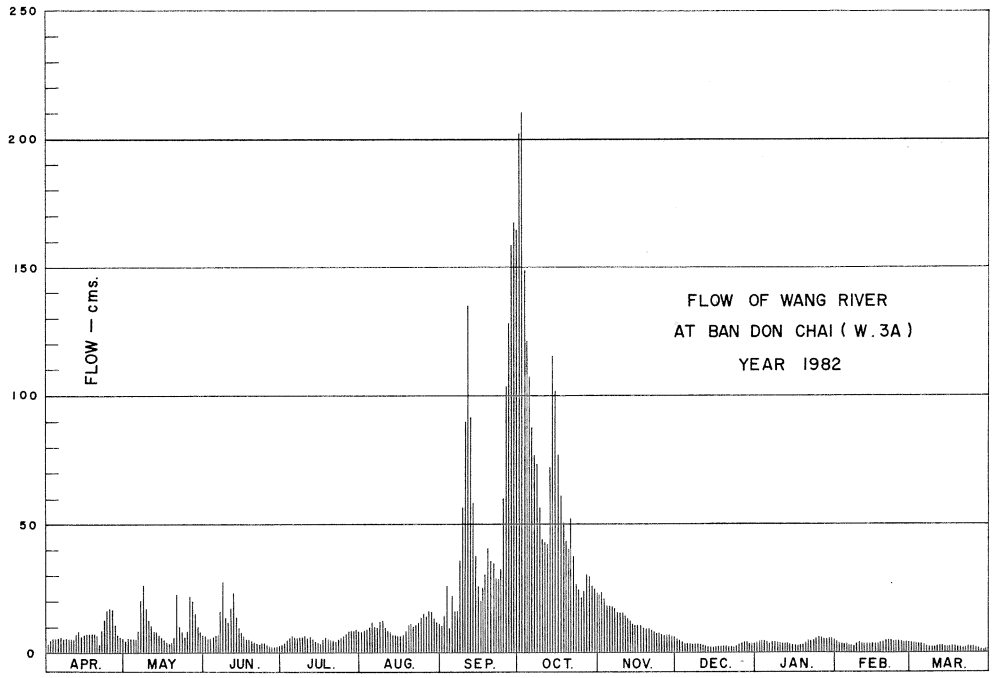
WANG RIVER AT BAN DON CHAI, LAMPANG (W.3A)

LOCATION	LAT. 17°-38'-29" N., LONG. 99°-14'-04" E., ON RIGHT BANK ABOUT 30 METERS UPSTREAM FROM SIRIYONG BRIDGE, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	8,985 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+161.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+167.556 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967, 1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967,1969 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 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	161.45	161.52	161.60	161.47	161.64	161.70	163.88	161.99	161.55	161.49	161.51	161.50	
2	161.53	161.53	161.56	161.49	161.65	161.83	163.94	162.01	161.53	161.50	161.48	161.49	
3	161.55	161.53	161.54	161.52	161.66	162.07	163.56	161.94	161.51	161.51	161.47	161.49	
4	161.56	161.54	161.55	161.55	161.69	161.68	163.26	161.91	161.48	161.52	161.47	161.48	
5	161.55	161.55	161.58	161.59	161.74	161.99	163.11	161.90	161.48	161.51	161.46	161.46	
6	161.58	161.74	161.60	161.58	161.70	161.86	162.93	161.90	161.49	161.49	161.45	161.45	
7	161.55	161.94	161.83	161.56	161.69	161.86	162.81	161.88	161.48	161.49	161.45	161.43	
8	161.54	162.07	162.09	161.56	161.76	162.24	162.76	161.85	161.48	161.50	161.44	161.42	
9	161.54	161.91	161.81	161.56	161.77	162.61	162.54	161.84	161.48	161.49	161.47	161.42	
10	161.56	161.80	161.75	161.58	161.72	162.92	162.37	161.83	161.47	161.49	161.50	161.42	
11	161.56	161.73	161.86	161.56	161.67	163.37	162.35	161.82	161.46	161.49	161.49	161.42	
12	161.62	161.66	162.01	161.57	161.64	163.03	162.33	161.79	161.44	161.49	161.48	161.44	
13	161.66	161.64	161.87	161.55	161.61	162.61	162.76	161.77	161.41	161.48	161.49	161.44	
14	161.59	161.63	161.73	161.53	161.60	162.28	163.20	161.73	161.41	161.47	161.48	161.43	
15	161.60	161.57	161.64	161.50	161.60	162.08	163.06	161.72	161.41	161.43	161.49	161.42	
16	161.62	161.53	161.59	161.49	161.58	161.95	162.81	161.72	161.41	161.43	161.49	161.43	
17	161.61	161.51	161.56	161.57	161.57	162.07	162.63	161.71	161.41	161.44	161.49	161.42	
18	161.61	161.49	161.53	161.60	161.62	162.17	162.51	161.70	161.41	161.44	161.50	161.42	
19	161.61	161.49	161.51	161.53	161.72	162.32	162.37	161.69	161.43	161.44	161.51	161.42	
20	161.61	161.59	161.50	161.53	161.75	162.24	162.32	161.69	161.44	161.48	161.52	161.41	
21	161.46	162.00	161.48	161.52	161.72	162.22	162.48	161.67	161.44	161.52	161.53	161.40	
22	161.68	161.71	161.47	161.51	161.71	162.13	162.23	161.64	161.42	161.52	161.53	161.42	
23	161.79	161.64	161.47	161.52	161.74	162.11	162.10	161.63	161.43	161.51	161.52	161.43	
24	161.85	161.59	161.48	161.57	161.80	162.24	162.03	161.62	161.45	161.54	161.52	161.42	
25	161.89	161.66	161.46	161.59	161.84	162.62	161.98	161.62	161.47	161.55	161.51	161.42	
26	161.88	161.98	161.44	161.61	161.81	163.09	162.03	161.60	161.48	161.57	161.50	161.41	
27	161.78	161.98	161.44	161.64	161.85	163.32	162.15	161.60	161.49	161.56	161.50	161.40	
28	161.62	161.89	161.42	161.64	161.86	163.57	162.15	161.60	161.50	161.54	161.50	161.37	
29	161.58	161.78	161.42	161.66	161.81	163.63	162.08	161.60	161.49	161.55		161.35	
30	161.56	161.65	161.44	161.67	161.76	163.61	162.05	161.57	161.48	161.55		161.36	
31		161.60		161.66	161.74		162.01		161.49	161.54		161.37	
MEAN	161.62	161.69	161.61	161.56	161.71	162.45	162.61	161.75	161.46	161.50	161.49	161.42	
MAX	161.89	162.07	162.09	161.67	161.86	163.63	163.94	162.01	161.55	161.57	161.53	161.50	163.94
MIN	161.45	161.49	161.42	161.47	161.57	161.68	161.98	161.57	161.41	161.43	161.44	161.35	161.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 163.97 M (MSL), AT 3.00 HOURS, ON OCT 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 161.00 M (MSL), RIVER BED 160.37 M (MSL)
LEFT BANK ELEVATION 171.26 M (MSL)
RIGHT BANK ELEVATION 171.20 M (MSL), DRAINAGE AREA 8985 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.00	4.74	6.90	3.48	8.22	10.20	201.70	22.35	5.55	3.96	4.47	4.20	
2	5.01	5.01	5.82	3.96	8.55	15.15	210.10	23.30	5.01	4.20	3.72	3.96	
3	5.55	5.01	5.28	4.74	8.88	26.30	158.50	20.10	4.47	4.47	3.48	3.96	
4	5.82	5.28	5.55	5.55	9.87	9.54	122.40	18.75	3.72	4.74	3.48	3.72	
5	5.55	5.55	6.36	6.63	11.64	22.35	106.28	18.30	3.72	4.47	3.24	3.24	
6	6.36	11.64	6.90	6.36	10.20	16.50	88.21	18.30	3.96	3.96	3.00	3.00	
7	5.55	20.10	15.15	5.82	9.87	16.50	77.20	17.40	3.72	3.96	3.00	2.52	
8	5.28	26.30	27.30	5.82	12.36	35.90	73.10	16.05	3.72	4.20	2.76	2.28	
9	5.28	18.75	14.25	5.82	12.72	61.10	55.92	15.60	3.72	3.96	3.48	2.28	
10	5.82	13.80	12.00	6.36	10.92	87.24	44.05	15.15	3.48	3.96	4.20	2.28	
11	5.82	11.28	16.50	5.82	9.21	135.05	42.75	14.70	3.24	3.96	3.96	2.28	
12	7.56	8.88	23.30	6.09	8.22	98.07	41.45	13.44	2.76	3.96	3.72	2.76	
13	8.88	8.22	16.95	5.55	7.23	61.10	73.10	12.72	2.04	3.72	3.96	2.76	
14	6.63	7.89	11.28	5.01	6.90	38.30	115.50	11.28	2.04	3.48	3.72	2.52	
15	6.90	6.09	8.22	4.20	6.90	26.80	101.15	10.92	2.04	2.52	3.96	2.28	
16	7.56	5.01	6.63	3.96	6.36	20.55	77.20	10.92	2.04	2.52	3.96	2.52	
17	7.23	4.47	5.82	6.09	6.09	26.30	62.70	10.56	2.04	2.76	3.96	2.28	
18	7.23	3.96	5.01	6.90	7.56	31.79	53.73	10.20	2.04	2.76	4.20	2.28	
19	7.23	3.96	4.47	5.01	10.92	40.80	44.05	9.87	2.52	2.76	4.47	2.28	
20	7.23	6.63	4.20	5.01	12.00	35.90	40.80	9.87	2.76	3.72	4.74	2.04	
21	3.24	22.80	3.72	4.74	10.92	34.70	51.60	9.21	2.76	4.74	5.01	1.80	
22	9.54	10.56	3.48	4.47	10.56	29.51	35.30	8.22	2.28	4.74	5.01	2.28	
23	13.44	8.22	3.48	4.74	11.64	28.37	27.80	7.89	2.52	4.47	4.74	2.52	
24	16.05	6.63	3.72	6.09	13.80	35.90	24.30	7.56	3.00	5.28	4.74	2.28	
25	17.85	8.88	3.24	6.63	15.60	61.90	21.90	7.56	3.48	5.55	4.47	2.28	
26	17.40	21.90	2.76	7.23	14.25	104.22	24.30	6.90	3.72	6.09	4.20	2.04	
27	13.08	21.90	2.76	8.22	16.05	129.30	30.65	6.90	3.96	5.82	4.20	1.80	
28	7.56	17.85	2.28	8.22	16.50	159.75	30.65	6.90	4.20	5.28	4.20	1.26	
29	6.36	13.08	2.28	8.88	14.25	167.40	26.80	6.90	3.96	5.55		0.90	
30	5.82	8.55	2.76	9.21	12.36	164.80	25.30	6.09	3.72	5.55		1.08	
31		6.90		8.88	11.64		23.30		3.96	5.28		1.26	
TOTAL	235.83	329.84	238.37	185.49	332.19	1731.29	2111.79	373.91	102.15	132.39	112.05	74.94	5960.24 CMSDAY
MEAN	7.86	10.64	7.95	5.98	10.72	57.71	68.12	12.46	3.30	4.27	4.00	2.42	16.33 CMS
MAX	17.85	26.30	27.30	9.21	16.50	167.40	210.10	23.30	5.55	6.09	5.01	4.20	210.10 CMS
MIN	3.00	3.96	2.28	3.48	6.09	9.54	21.90	6.09	2.04	2.52	2.76	0.90	0.90 CMS
RUNOFF	20.376	28.498	20.595	16.026	28.701	149.583	182.459	32.306	8.826	11.438	9.681	6.475	514.965 MCM

MOMENTARY PEAK 214.30 CMS, AT 163.97 M (MSL), AT 3.00 HOURS, ON OCT 2, 1982

RUNOFF YIELD 1.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 23.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

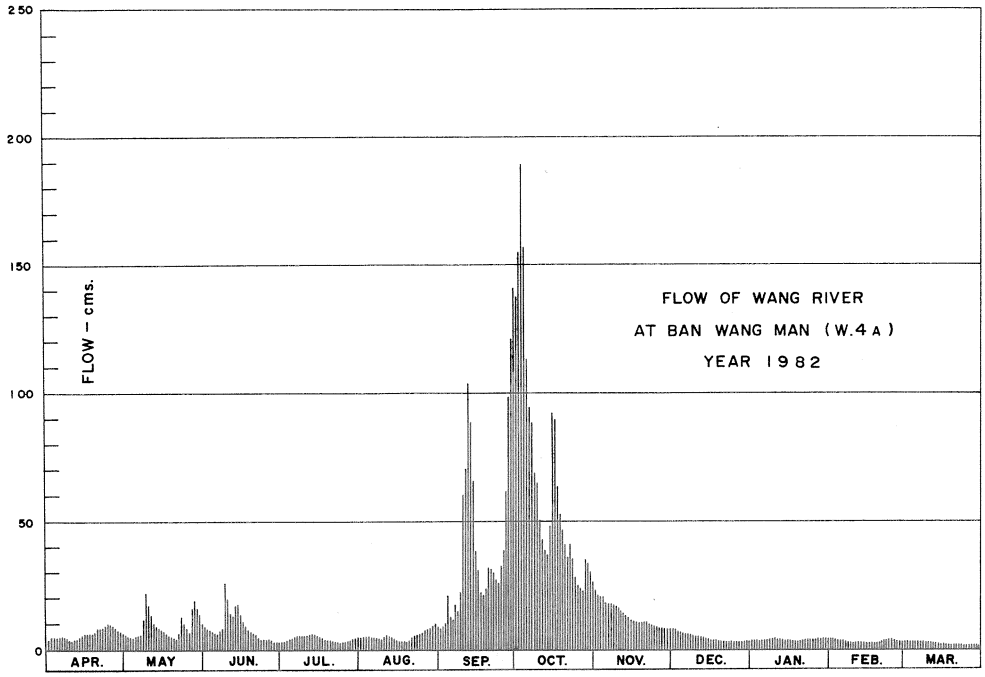
WANG RIVER AT BAN WANG MAN, TAK (W.4A)

LOCATION	LAT. 17°-12'-22" N., LONG. 99°-06'-08" E., ON RIGHT BANK ABOUT 200 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE SAM NGAO, TAK.
DRAINAGE AREA	10,507 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+130.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF WAT WANG MAN.
ELEVATION	+136.071 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. UPSTREAM STATE DIVERSIONS FOR IRRIGATION ABOUT 12,320 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	130.88	131.00	131.18	130.82	130.96	131.15	133.84	131.74	131.13	130.87	130.93	130.86	
2	130.94	130.98	131.15	130.82	130.95	131.18	134.07	131.67	131.11	130.88	130.93	130.85	
3	130.94	130.98	131.13	130.84	130.94	131.23	134.40	131.65	131.08	130.89	130.92	130.85	
4	130.94	130.98	131.10	130.88	130.94	131.67	133.93	131.63	131.07	130.89	130.89	130.85	
5	130.96	130.98	131.06	130.90	130.94	131.40	133.49	131.57	131.06	130.89	130.87	130.85	
6	130.94	131.00	131.04	130.94	130.95	131.31	133.25	131.55	131.03	130.91	130.86	130.85	
7	130.94	131.00	131.10	130.99	130.96	131.54	133.01	131.55	131.01	130.91	130.85	130.84	
8	130.94	131.22	131.20	131.00	130.95	131.46	132.81	131.54	131.00	130.91	130.84	130.83	
9	130.89	131.71	131.84	130.99	130.92	131.76	132.76	131.51	130.98	130.91	130.83	130.83	
10	130.88	131.58	131.67	130.99	130.99	132.59	132.49	131.48	130.97	130.90	130.83	130.81	
11	130.89	131.40	131.42	130.99	131.01	132.87	132.33	131.45	130.96	130.90	130.83	130.80	
12	130.91	131.27	131.38	131.00	130.99	133.40	132.21	131.42	130.94	130.90	130.84	130.79	
13	130.93	131.20	131.52	131.02	130.94	133.18	132.16	131.39	130.94	130.89	130.81	130.79	
14	130.98	131.17	131.56	131.03	130.92	132.64	132.50	131.36	130.94	130.85	130.80	130.78	
15	131.00	131.13	131.41	130.99	130.88	132.20	133.23	131.33	130.92	130.88	130.79	130.78	
16	131.00	131.09	131.28	130.95	130.85	131.90	133.18	131.29	130.90	130.87	130.79	130.76	
17	131.01	131.02	131.20	130.91	130.84	131.70	132.85	131.28	130.90	130.86	130.79	130.75	
18	131.02	131.00	131.14	130.89	130.84	131.67	132.59	131.27	130.89	130.86	130.80	130.73	
19	131.03	130.97	131.08	130.87	130.82	131.77	132.42	131.26	130.86	130.86	130.81	130.73	
20	131.10	130.94	131.04	130.90	130.82	132.01	132.25	131.27	130.86	130.87	130.82	130.73	
21	131.11	130.93	131.00	130.88	130.94	131.99	132.13	131.26	130.86	130.87	130.85	130.72	
22	131.13	131.04	130.96	130.85	130.99	131.96	132.26	131.24	130.86	130.87	130.87	130.72	
23	131.16	131.36	130.93	130.83	131.00	131.87	132.11	131.22	130.86	130.89	130.89	130.72	
24	131.24	131.25	130.91	130.82	131.00	131.82	131.89	131.20	130.86	130.90	130.90	130.72	
25	131.25	131.14	130.91	130.81	131.04	132.03	131.81	131.18	130.86	130.90	130.90	130.71	
26	131.20	131.06	130.91	130.83	131.10	132.24	131.75	131.17	130.86	130.91	130.89	130.71	
27	131.16	131.45	130.89	130.86	131.15	132.82	131.73	131.15	130.86	130.93	130.88	130.71	
28	131.13	131.59	130.85	130.88	131.16	133.32	132.10	131.13	130.86	130.93	130.86	130.71	
29	131.10	131.47	130.83	130.91	131.20	133.68	132.05	131.13	130.86	130.93		130.71	
30	131.04	131.42	130.83	130.93	131.25	133.87	131.94	131.13	130.86	130.93		130.71	
31		131.28		130.95	131.20		131.83		130.86	130.93		130.71	
MEAN	131.02	131.18	131.15	130.91	130.98	132.14	132.62	131.37	130.94	130.89	130.85	130.77	
MAX	131.25	131.71	131.84	131.03	131.25	133.87	134.40	131.74	131.13	130.93	130.93	130.86	134.40
MIN	130.88	130.93	130.83	130.81	130.82	131.15	131.73	131.13	130.86	130.85	130.79	130.71	130.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 134.46 M (MSL), AT 5.00 HOURS, ON OCT 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 130.00 M (MSL), RIVER BED 130.48 M (MSL)
LEFT BANK ELEVATION 135.96 M (MSL)
RIGHT BANK ELEVATION 135.63 M (MSL), DRAINAGE AREA 10507 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.20	5.15	8.34	2.45	4.47	7.80	137.90	22.70	7.44	3.07	3.96	2.95	
2	4.13	4.81	7.80	2.45	4.30	8.34	157.80	20.66	7.08	3.20	3.96	2.83	
3	4.13	4.81	7.44	2.70	4.13	9.39	188.50	20.10	6.55	3.33	3.79	2.83	
4	4.13	4.81	6.90	3.20	4.13	20.66	145.55	19.54	6.38	3.33	3.33	2.83	
5	4.47	4.81	6.20	3.45	4.13	13.30	109.80	17.89	6.20	3.33	3.07	2.83	
6	4.13	5.15	5.85	4.13	4.30	11.23	93.25	17.35	5.67	3.62	2.95	2.83	
7	4.13	5.15	6.90	4.98	4.47	17.08	78.10	17.35	5.32	3.62	2.83	2.70	
8	4.13	9.16	8.70	5.15	4.30	14.92	66.79	17.08	5.15	3.62	2.70	2.58	
9	3.33	21.80	25.80	4.98	3.79	23.30	64.07	16.27	4.81	3.62	2.58	2.58	
10	3.20	18.16	20.66	4.98	4.98	55.33	50.69	15.46	4.64	3.45	2.58	2.32	
11	3.33	13.30	13.84	4.98	5.32	70.06	43.56	14.65	4.47	3.45	2.58	2.20	
12	3.62	10.31	12.84	5.15	4.98	103.50	38.70	13.84	4.13	3.45	2.70	2.09	
13	3.96	8.70	16.54	5.50	4.13	88.70	36.78	13.07	4.13	3.33	2.32	2.09	
14	4.81	8.16	17.62	5.67	3.79	57.80	51.15	12.38	4.13	2.83	2.20	1.98	
15	5.15	7.44	13.57	4.98	3.20	38.30	91.95	11.69	3.79	3.20	2.09	1.98	
16	5.15	6.72	10.54	4.30	2.83	27.75	88.70	10.77	3.45	3.07	2.09	1.76	
17	5.32	5.50	8.70	3.62	2.70	21.50	68.98	10.54	3.45	2.95	2.09	1.65	
18	5.50	5.15	7.62	3.33	2.70	20.66	55.33	10.31	3.33	2.95	2.20	1.43	
19	5.67	4.64	6.55	3.07	2.45	23.60	47.43	10.08	2.95	2.95	2.32	1.43	
20	6.90	4.13	5.85	3.45	2.45	31.35	40.30	10.31	2.95	3.07	2.45	1.43	
21	7.08	3.96	5.15	3.20	4.13	30.68	35.64	10.08	2.95	3.07	2.83	1.32	
22	7.44	5.85	4.47	2.83	4.98	29.70	40.70	9.62	2.95	3.07	3.07	1.32	
23	7.98	12.38	3.96	2.58	5.15	26.77	34.88	9.16	2.95	3.33	3.33	1.32	
24	9.62	9.85	3.62	2.45	5.15	25.15	27.42	8.70	2.95	3.45	3.45	1.32	
25	9.85	7.62	3.62	2.32	5.85	32.05	24.82	8.34	2.95	3.45	3.45	1.21	
26	8.70	6.20	3.62	2.58	6.90	39.90	23.00	8.16	2.95	3.62	3.33	1.21	
27	7.98	14.65	3.33	2.95	7.80	67.34	22.40	7.80	2.95	3.96	3.20	1.21	
28	7.44	18.43	2.83	3.20	7.98	97.90	34.50	7.44	2.95	3.96	2.95	1.21	
29	6.90	15.19	2.58	3.62	8.70	124.90	32.75	7.44	2.95	3.96		1.21	
30	5.85	13.84	2.58	3.96	9.85	140.45	29.05	7.44	2.95	3.96		1.21	
31		10.54		4.30	8.70		25.47		2.95	3.96		1.21	
TOTAL	167.23	276.37	254.02	116.51	152.74	1279.41	1985.96	386.22	128.47	105.23	80.40	59.07	4991.63 CMSDAY
MEAN	5.57	8.92	8.47	3.76	4.93	42.65	64.06	12.87	4.14	3.39	2.87	1.91	13.68 CMS
MAX	9.85	21.80	25.80	5.67	9.85	140.45	188.50	22.70	7.44	3.96	3.96	2.95	188.50 CMS
MIN	3.20	3.96	2.58	2.32	2.45	7.80	22.40	7.44	2.95	2.83	2.09	1.21	1.21 CMS
RUNOFF	14.449	23.878	21.947	10.066	13.197	110.541	171.587	33.369	11.100	9.092	6.947	5.104	431.277 MCM

MOMENTARY PEAK 194.35 CMS, AT 134.46 M (MSL), AT 5.00 HOURS, ON OCT 3, 1982

RUNOFF YIELD 1.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 18.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

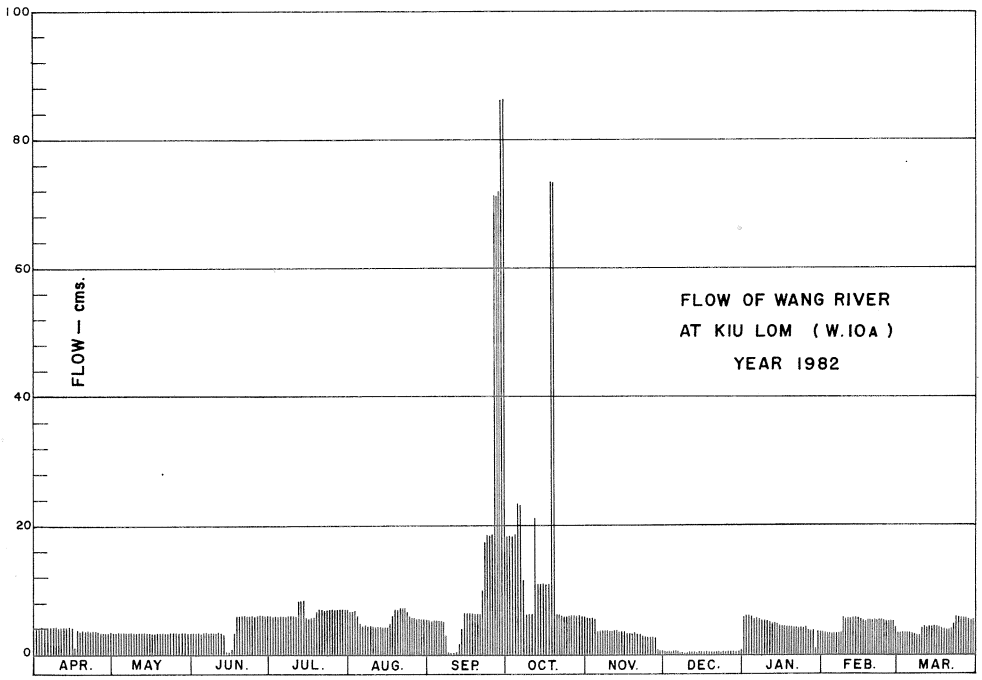
WANG RIVER AT KIU LOM, LAMPANG (W.10A)

LOCATION	LAT. 18°-31'-16" N., LONG. 99°-37'-52" E., ON LEFT BANK ABOUT 800 METERS DOWNSTREAM FROM KIU LOM DAMSITE, AMPHOE CHAE HOM, LAMPANG.
DRAINAGE AREA	2,798 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+258.961 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+265.511 M.(M.S.L.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 09.00, 12.00, AND 15.00 HOURS
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 - 1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1980.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY KIU LOM DAM. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	259.00	258.97	258.97	259.05	259.07	259.03	259.38	259.04	258.85	259.05	258.98	258.97	
2	259.00	258.97	258.97	259.05	259.08	259.03	259.38	259.04	258.85	259.05	258.98	258.97	
3	259.00	258.97	258.97	259.05	259.08	259.03	259.38	259.04	258.85	259.05	258.97	258.97	
4	259.00	258.97	258.97	259.05	259.05	259.03	259.38	259.04	258.85	259.04	258.97	258.97	
5	259.00	258.97	258.97	259.05	259.01	259.03	259.49	258.98	258.85	259.04	258.97	258.97	
6	259.00	258.97	258.97	259.05	259.01	259.03	259.49	258.98	258.85	259.04	258.97	258.97	
7	259.00	258.97	258.97	259.05	259.01	259.03	259.21	258.98	258.84	259.03	258.97	258.97	
8	259.00	258.97	258.97	259.05	259.01	258.84	259.06	258.98	258.75	259.03	258.97	258.96	
9	259.00	258.97	258.97	259.05	259.01	258.75	259.06	258.98	258.75	259.03	259.04	258.96	
10	259.00	258.97	258.97	259.05	259.01	258.75	259.06	258.98	258.75	259.03	259.04	259.00	
11	259.00	258.97	258.97	259.05	259.00	258.75	259.06	258.98	258.85	259.02	259.04	259.00	
12	259.00	258.97	258.97	259.12	259.00	258.74	259.53	258.98	258.85	259.02	259.04	259.00	
13	259.00	258.97	258.97	259.12	259.00	258.95	259.19	258.98	258.85	259.02	259.04	259.00	
14	259.00	258.97	258.72	259.12	259.00	259.06	259.19	258.98	258.85	259.01	259.04	259.00	
15	259.00	258.97	258.72	259.04	259.00	259.06	259.19	258.98	258.85	259.01	259.04	259.00	
16	258.75	258.97	258.72	259.04	259.00	259.06	259.19	258.98	258.85	259.01	259.03	259.00	
17	258.98	258.97	258.98	259.04	259.04	259.06	259.19	258.97	258.85	259.00	259.03	259.00	
18	258.98	258.97	259.05	259.04	259.08	259.06	260.32	258.97	258.85	259.00	259.03	258.99	
19	258.98	258.97	259.05	259.08	259.08	259.06	260.32	258.97	258.85	259.00	259.03	258.99	
20	258.98	258.97	259.05	259.08	259.09	259.06	259.06	258.97	258.85	259.00	259.03	258.99	
21	258.98	258.97	259.05	259.08	259.09	259.06	259.06	258.97	258.85	259.00	259.03	258.99	
22	258.98	258.97	259.05	259.08	259.09	259.36	259.05	258.97	258.85	259.00	259.03	259.00	
23	258.98	258.97	259.05	259.08	259.09	259.39	259.05	258.96	258.85	259.00	259.03	259.04	
24	258.98	258.97	259.05	259.08	259.05	259.39	259.05	258.96	258.85	259.00	259.03	259.04	
25	258.98	258.97	259.05	259.08	259.04	259.39	259.05	258.95	258.85	259.00	259.03	259.04	
26	258.97	258.97	259.05	259.08	259.04	260.29	259.05	258.95	258.85	258.99	259.03	259.04	
27	258.97	258.97	259.05	259.08	259.04	260.29	259.05	258.95	258.85	258.99	259.03	259.04	
28	258.97	258.97	259.05	259.08	259.04	260.29	259.05	258.95	258.85	258.99	259.03	259.04	
29	258.97	258.97	259.05	259.08	259.04	260.48	259.05	258.86	258.86	258.90		259.03	
30	258.97	258.97	259.05	259.08	259.04	260.48	259.05	258.86	258.86	258.98		259.03	
31		258.97		259.08	259.04		259.05		258.86	258.98		259.03	
MEAN	258.98	258.97	258.98	259.07	259.04	259.26	259.25	258.97	258.84	259.01	259.02	259.00	
MAX	259.00	258.97	259.05	259.12	259.09	260.48	260.32	259.04	258.86	259.05	259.04	259.04	260.48
MIN	258.75	258.97	258.72	259.04	259.00	258.74	259.05	258.86	258.75	258.90	258.97	258.96	258.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 260.58 M (MSL), AT 12.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 258.96 M (MSL), RIVER BED 258.00 M (MSL)
LEFT BANK ELEVATION 269.60 M (MSL)
RIGHT BANK ELEVATION 269.21 M (MSL), DRAINAGE AREA 2798 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.30	3.35	3.35	6.05	6.75	5.35	18.38	5.70	0.64	6.05	3.66	3.35	
2	4.30	3.35	3.35	6.05	7.10	5.35	18.38	5.70	0.64	6.05	3.66	3.35	
3	4.30	3.35	3.35	6.05	7.10	5.35	18.38	5.70	0.64	6.05	3.35	3.35	
4	4.30	3.35	3.35	6.05	6.05	5.35	18.38	5.70	0.64	5.70	3.35	3.35	
5	4.30	3.35	3.35	6.05	4.65	5.35	23.52	3.66	0.64	5.70	3.35	3.35	
6	4.30	3.35	3.35	6.05	4.65	5.35	23.52	3.66	0.64	5.70	3.35	3.35	
7	4.30	3.35	3.35	6.05	4.65	5.35	11.68	3.66	0.54	5.35	3.35	3.35	
8	4.30	3.35	3.35	6.05	4.65	0.54	6.40	3.66	0.08	5.35	3.35	3.03	
9	4.30	3.35	3.35	6.05	4.65	0.08	6.40	3.66	0.08	5.35	5.70	3.03	
10	4.30	3.35	3.35	6.05	4.65	0.08	6.40	3.66	0.08	5.35	5.70	4.30	
11	4.30	3.35	3.35	6.05	4.30	0.08	6.40	3.66	0.64	5.00	5.70	4.30	
12	4.30	3.35	3.35	8.50	4.30	0.06	25.50	3.66	0.64	5.00	5.70	4.30	
13	4.30	3.35	3.35	8.50	4.30	2.71	10.95	3.66	0.64	5.00	5.70	4.30	
14	4.30	3.35	0.03	8.50	4.30	6.40	10.95	3.66	0.64	4.65	5.70	4.30	
15	4.30	3.35	0.03	5.70	4.30	6.40	10.95	3.66	0.64	4.65	5.70	4.30	
16	0.08	3.35	0.03	5.70	4.30	6.40	10.95	3.66	0.64	4.65	5.35	4.30	
17	3.66	3.35	3.66	5.70	5.70	6.40	10.95	3.35	0.64	4.30	5.35	4.30	
18	3.66	3.35	6.05	5.70	7.10	6.40	73.60	3.35	0.64	4.30	5.35	3.98	
19	3.66	3.35	6.05	7.10	7.10	6.40	73.60	3.35	0.64	4.30	5.35	3.98	
20	3.66	3.35	6.05	7.10	7.45	6.40	6.40	3.35	0.64	4.30	5.35	3.98	
21	3.66	3.35	6.05	7.10	7.45	6.40	6.40	3.35	0.64	4.30	5.35	3.98	
22	3.66	3.35	6.05	7.10	7.45	17.56	6.05	3.35	0.64	4.30	5.35	4.30	
23	3.66	3.35	6.05	7.10	7.45	18.79	6.05	3.03	0.64	4.30	5.35	5.70	
24	3.66	3.35	6.05	7.10	6.05	18.79	6.05	3.03	0.64	4.30	5.35	5.70	
25	3.66	3.35	6.05	7.10	5.70	18.79	6.05	2.71	0.64	4.30	5.35	5.70	
26	3.35	3.35	6.05	7.10	5.70	71.30	6.05	2.71	0.64	3.98	5.35	5.70	
27	3.35	3.35	6.05	7.10	5.70	71.30	6.05	2.71	0.64	3.98	5.35	5.70	
28	3.35	3.35	6.05	7.10	5.70	71.30	6.05	2.71	0.64	3.98	5.35	5.70	
29	3.35	3.35	6.05	7.10	5.70	86.40	6.05	0.74	0.74	1.12		5.35	
30	3.35	3.35	6.05	7.10	5.70	86.40	6.05	0.74	0.74	3.66		5.35	
31		3.35		7.10	5.70		6.05		0.74	3.66		5.35	
TOTAL	114.27	103.85	125.95	207.15	176.35	552.83	458.59	105.20	18.36	144.68	136.87	134.38	2278.48 CMSDAY
MEAN	3.81	3.35	4.20	6.68	5.69	18.43	14.79	3.51	0.59	4.67	4.89	4.33	6.24 CMS
MAX	4.30	3.35	6.05	8.50	7.45	86.40	73.60	5.70	0.74	6.05	5.70	5.70	86.40 CMS
MIN	0.08	3.35	0.03	5.70	4.30	0.06	6.05	0.74	0.08	1.12	3.35	3.03	0.03 CMS
RUNOFF	9.873	8.973	10.882	17.898	15.237	47.765	39.622	9.089	1.586	12.500	11.826	11.610	196.861 MCM

MOMENTARY PEAK 94.80 CMS, AT 260.58 M (MSL), AT 12.00 HOURS, ON SEP 29, 1982
RUNOFF YIELD 2.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 33.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

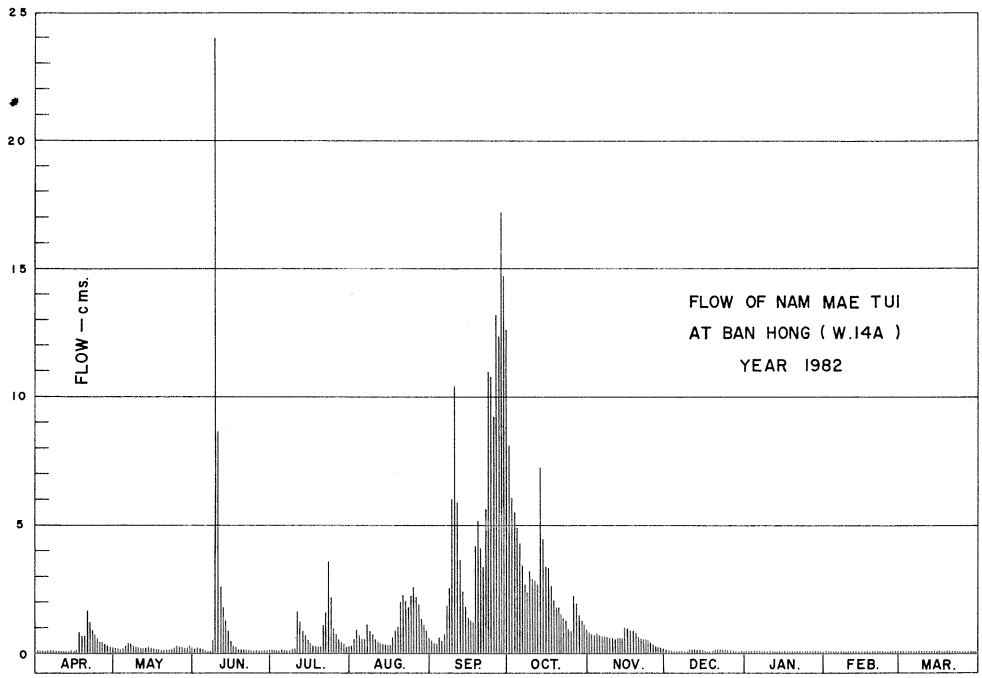
NAM MAE TUI AT BAN HONG, LAMPANG (W.14A)

LOCATION	LAT. 18°-26'-17" N., LONG. 99°-27'-00" E., ON RIGHT BANK AT BAN HONG, TAMBON BAN AIEM, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	649 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+257.670 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 7.00 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+261.325 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	257.71	257.80	257.78	257.74	257.84	257.91	258.68	257.96	257.79	257.75	257.70	257.69	
2	257.70	257.79	257.80	257.75	257.91	257.88	258.54	257.95	257.77	257.75	257.70	257.69	
3	257.70	257.79	257.81	257.75	257.98	257.86	258.50	257.94	257.74	257.74	257.70	257.69	
4	257.70	257.78	257.79	257.75	257.95	257.93	258.44	257.95	257.74	257.75	257.70	257.70	
5	257.70	257.83	257.75	257.75	257.91	257.92	258.40	257.94	257.73	257.74	257.70	257.69	
6	257.70	257.87	257.74	257.75	257.91	257.96	258.32	257.94	257.74	257.73	257.70	257.69	
7	257.70	257.86	257.73	257.75	258.02	258.13	258.24	257.94	257.74	257.72	257.70	257.69	
8	257.70	257.84	257.89	257.75	257.98	258.24	258.19	257.93	257.73	257.72	257.69	257.69	
9	257.70	257.83	259.48	257.78	257.96	258.66	258.28	257.93	257.73	257.72	257.69	257.69	
10	257.70	257.81	258.53	257.79	257.92	258.82	258.25	257.92	257.78	257.72	257.69	257.69	
11	257.72	257.80	258.24	258.10	257.90	258.54	258.25	257.91	257.77	257.71	257.70	257.69	
12	257.72	257.80	258.13	258.04	257.87	258.34	258.23	257.92	257.78	257.71	257.71	257.69	
13	257.72	257.79	258.06	257.99	257.86	258.22	258.62	257.92	257.78	257.71	257.71	257.69	
14	257.73	257.80	258.01	257.95	257.85	258.15	258.42	257.91	257.77	257.71	257.71	257.69	
15	257.73	257.80	257.92	257.91	257.85	258.09	258.30	258.00	257.77	257.71	257.71	257.69	
16	257.75	257.78	257.87	257.87	257.85	258.05	258.30	258.00	257.74	257.71	257.70	257.69	
17	257.96	257.77	257.83	257.84	257.91	258.04	258.25	257.99	257.74	257.71	257.70	257.69	
18	257.93	257.76	257.79	257.83	257.99	258.37	258.16	257.98	257.74	257.71	257.70	257.69	
19	257.93	257.76	257.78	257.83	258.00	258.46	258.12	257.98	257.74	257.71	257.70	257.69	
20	258.10	257.75	257.77	257.83	258.15	258.40	258.12	257.94	257.76	257.71	257.71	257.70	
21	258.05	257.76	257.78	258.01	258.18	258.30	258.09	257.92	257.78	257.71	257.70	257.70	
22	257.99	257.76	257.76	258.10	258.16	258.54	258.06	257.91	257.77	257.71	257.70	257.71	
23	257.95	257.77	257.75	258.32	258.12	258.85	258.05	257.91	257.77	257.70	257.70	257.72	
24	257.92	257.79	257.74	258.20	258.18	258.84	257.99	257.90	257.77	257.70	257.70	257.72	
25	257.89	257.83	257.74	258.04	258.22	258.75	257.97	257.88	257.76	257.70	257.70	257.71	
26	257.88	257.82	257.74	257.96	258.17	258.97	258.18	257.85	257.76	257.70	257.69	257.71	
27	257.86	257.82	257.74	257.91	258.14	258.93	258.14	257.84	257.76	257.70	257.69	257.70	
28	257.83	257.80	257.74	257.88	258.07	259.17	258.09	257.83	257.75	257.70	257.69	257.70	
29	257.82	257.80	257.74	257.86	258.04	259.06	258.06	257.82	257.75	257.70		257.68	
30	257.81	257.84	257.74	257.83	257.98	258.95	258.03	257.79	257.74	257.70		257.68	
31		257.81		257.83	257.93		257.99		257.74	257.69		257.68	
MEAN	257.81	257.80	257.91	257.89	257.99	258.41	258.23	257.92	257.76	257.71	257.70	257.69	
MAX	258.10	257.87	259.48	258.32	258.22	259.17	258.68	258.00	257.79	257.75	257.71	257.72	259.48
MIN	257.70	257.75	257.73	257.74	257.84	257.86	257.97	257.79	257.73	257.69	257.69	257.68	257.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 259.63 M (MSL), AT 13.00 HOURS, ON JUN 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 257.67 M (MSL), RIVER BED 257.82 M (MSL)
LEFT BANK ELEVATION 262.30 M (MSL)
RIGHT BANK ELEVATION 262.29 M (MSL), DRAINAGE AREA 649 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.21	0.17	0.10	0.33	0.57	8.15	0.82	0.19	0.12	0.02	0.02	
2	0.02	0.19	0.21	0.12	0.57	0.46	6.18	0.77	0.15	0.12	0.02	0.02	
3	0.02	0.19	0.24	0.12	0.92	0.40	5.65	0.72	0.10	0.10	0.02	0.02	
4	0.02	0.17	0.19	0.12	0.77	0.67	4.93	0.77	0.10	0.12	0.02	0.02	
5	0.02	0.30	0.12	0.12	0.57	0.62	4.45	0.72	0.08	0.10	0.02	0.02	
6	0.02	0.43	0.10	0.12	0.57	0.82	3.60	0.72	0.10	0.08	0.02	0.02	
7	0.02	0.40	0.08	0.12	1.15	1.89	2.83	0.72	0.10	0.06	0.02	0.02	
8	0.02	0.33	0.49	0.12	0.92	2.83	2.37	0.67	0.08	0.06	0.02	0.02	
9	0.02	0.30	23.99	0.17	0.82	7.86	3.20	0.67	0.08	0.06	0.02	0.02	
10	0.02	0.24	6.05	0.19	0.62	10.41	2.92	0.62	0.17	0.06	0.02	0.02	
11	0.06	0.21	2.83	1.65	0.52	6.18	2.92	0.57	0.15	0.04	0.02	0.02	
12	0.06	0.21	1.89	1.27	0.43	3.81	2.73	0.62	0.17	0.04	0.04	0.02	
13	0.06	0.19	1.40	0.97	0.40	2.64	7.27	0.62	0.17	0.04	0.04	0.02	
14	0.08	0.21	1.08	0.77	0.37	2.05	4.69	0.57	0.15	0.04	0.04	0.02	
15	0.08	0.21	0.62	0.57	0.37	1.59	3.39	1.02	0.15	0.04	0.04	0.02	
16	0.12	0.17	0.43	0.43	0.37	1.34	3.39	1.02	0.10	0.04	0.02	0.02	
17	0.82	0.15	0.30	0.33	0.57	1.27	2.92	0.97	0.10	0.04	0.02	0.02	
18	0.67	0.13	0.19	0.30	0.97	4.13	2.13	0.92	0.10	0.04	0.02	0.02	
19	0.67	0.13	0.17	0.30	1.02	5.17	1.81	0.92	0.10	0.04	0.02	0.02	
20	1.65	0.12	0.15	0.30	2.05	4.45	1.81	0.72	0.13	0.04	0.04	0.02	
21	1.34	0.13	0.17	1.08	2.29	3.39	1.59	0.62	0.17	0.04	0.02	0.02	
22	0.97	0.13	0.13	1.65	2.13	6.18	1.40	0.57	0.15	0.04	0.02	0.04	
23	0.77	0.15	0.12	3.60	1.81	10.95	1.34	0.57	0.15	0.02	0.02	0.06	
24	0.62	0.19	0.10	2.45	2.29	10.77	0.97	0.52	0.15	0.02	0.02	0.06	
25	0.49	0.30	0.10	1.27	2.64	9.25	0.87	0.46	0.13	0.02	0.02	0.04	
26	0.46	0.27	0.10	0.82	2.21	13.18	2.29	0.37	0.13	0.02	0.02	0.04	
27	0.40	0.27	0.10	0.57	1.97	12.42	1.97	0.33	0.13	0.02	0.02	0.02	
28	0.30	0.21	0.10	0.46	1.46	17.18	1.59	0.30	0.12	0.02	0.02	0.02	
29	0.27	0.21	0.10	0.40	1.27	14.93	1.40	0.27	0.12	0.02		0.01	
30	0.24	0.33	0.10	0.30	0.92	12.80	1.21	0.19	0.10	0.02		0.01	
31		0.24		0.30	0.67		0.97		0.10	0.02		0.01	
TOTAL	10.35	6.92	41.82	21.09	33.97	170.21	92.94	19.35	3.92	1.54	0.66	0.73	403.50 CMSDAY
MEAN	0.34	0.22	1.39	0.68	1.10	5.67	3.00	0.65	0.13	0.05	0.02	0.02	1.11 CMS
MAX	1.65	0.43	23.99	3.60	2.64	17.18	8.15	1.02	0.19	0.12	0.04	0.06	23.99 CMS
MIN	0.02	0.12	0.08	0.10	0.33	0.40	0.87	0.19	0.08	0.02	0.02	0.01	0.01 CMS
RUNOFF	0.894	0.598	3.613	1.822	2.935	14.706	8.030	1.672	0.339	0.133	0.057	0.063	34.862 MCM

MOMENTARY PEAK 27.53 CMS, AT 259.63 M (MSL), AT 13.00 HOURS, ON JUN 9, 1982

RUNOFF YIELD 1.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 42.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

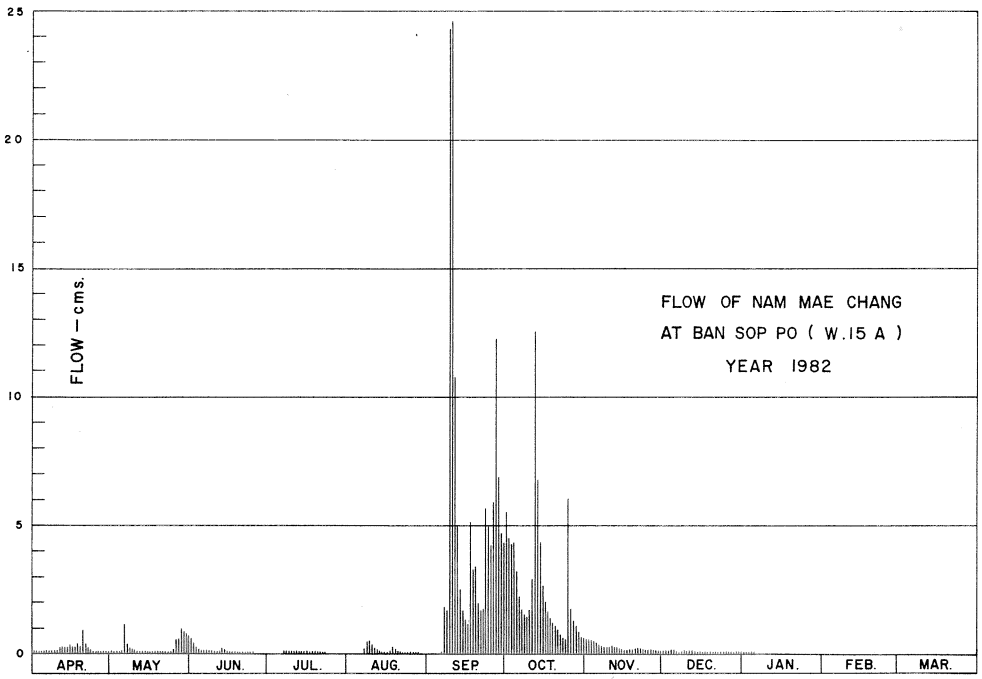
NAM MAE CHANG AT BAN SOP PO, LAMPANG (W.15A)

LOCATION	LAT. 18°-08'-08" N., LONG. 99°-34'-58" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS UPSTREM FROM BAN SOP PO, AMPHOE MAE THA, LAMPANG.
DRAINAGE AREA	1,103 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+240.120 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF STATION OFFICE.
ELEVATION	+251.685 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 111 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	240.53	240.51	240.81	240.35	240.15	240.30	241.29	240.79	240.63	240.53	239.23	239.23	
2	240.51	240.49	240.76	240.32	240.12	240.26	241.23	240.79	240.63	240.53	239.23	239.23	
3	240.56	240.50	240.69	240.27	240.06	240.26	241.20	240.78	240.62	240.53	239.23	239.23	
4	240.55	240.52	240.65	240.23	240.05	240.23	241.21	240.76	240.65	240.52	239.23	239.23	
5	240.55	240.60	240.63	240.19	240.07	240.21	241.14	240.76	240.64	240.49	239.23	239.23	
6	240.61	240.90	240.62	240.17	240.04	240.49	241.04	240.74	240.64	240.47	239.23	239.23	
7	240.60	240.76	240.63	240.54	240.63	240.99	240.99	240.71	240.60	240.45	239.23	239.23	
8	240.58	240.70	240.63	240.54	240.76	240.98	240.96	240.70	240.58	240.42	239.23	239.23	
9	240.58	240.68	240.63	240.54	240.78	242.04	240.94	240.69	240.62	240.39	239.23	239.23	
10	240.60	240.65	240.59	240.52	240.74	242.05	240.99	240.70	240.62	240.36	239.23	239.23	
11	240.67	240.61	240.58	240.54	240.70	241.56	241.11	240.70	240.61	240.33	239.23	239.23	
12	240.69	240.59	240.60	240.58	240.66	241.26	241.63	240.70	240.64	240.31	239.23	239.23	
13	240.69	240.57	240.67	240.58	240.63	241.08	241.38	240.68	240.61	240.30	239.23	239.23	
14	240.69	240.55	240.65	240.59	240.60	241.00	241.24	240.68	240.53	240.28	239.23	239.23	
15	240.72	240.54	240.63	240.56	240.55	240.94	241.10	240.66	240.53	240.25	239.23	239.23	
16	240.69	240.54	240.59	240.56	240.53	240.91	241.03	240.66	240.52	240.22	239.23	239.23	
17	240.68	240.53	240.57	240.53	240.54	241.26	240.98	240.64	240.52	240.24	239.23	239.23	
18	240.73	240.50	240.56	240.52	240.70	241.13	240.95	240.65	240.52	240.26	239.23	239.23	
19	240.69	240.54	240.53	240.52	240.67	241.14	240.91	240.66	240.51	240.24	239.23	239.23	
20	240.85	240.52	240.52	240.52	240.66	241.03	240.90	240.66	240.51	240.20	239.23	239.23	
21	240.75	240.50	240.50	240.51	240.62	240.98	240.86	240.68	240.51	240.19	239.23	239.23	
22	240.69	240.51	240.48	240.49	240.59	240.98	240.83	240.68	240.50	240.18	239.23	239.23	
23	240.65	240.54	240.50	240.49	240.55	241.30	240.80	240.67	240.52	240.15	239.23	239.23	
24	240.60	240.57	240.49	240.47	240.54	241.27	240.79	240.65	240.51	240.14	239.23	239.23	
25	240.58	240.61	240.48	240.46	240.52	241.21	241.32	240.65	240.51	240.15	239.23	239.23	
26	240.55	240.77	240.47	240.41	240.50	241.35	241.00	240.66	240.50	240.12	239.23	239.23	
27	240.53	240.79	240.44	240.38	240.48	241.62	240.93	240.65	240.50	240.08	239.23	239.23	
28	240.51	240.87	240.44	240.33	240.46	241.38	240.90	240.62	240.49	240.07	239.23	239.23	
29	240.50	240.86	240.42	240.27	240.44	241.24	240.84	240.63	240.49	240.04		239.23	
30	240.53	240.83	240.39	240.22	240.39	241.21	240.81	240.63	240.48	240.02		239.23	
31		240.82		240.18	240.35		240.80		240.50	240.00		239.23	
MEAN	240.62	240.63	240.57	240.43	240.49	241.06	241.04	240.69	240.56	240.27	239.23	239.23	
MAX	240.85	240.90	240.81	240.59	240.78	242.05	241.63	240.79	240.65	240.53	239.23	239.23	242.05
MIN	240.50	240.49	240.39	240.17	240.04	240.21	240.79	240.62	240.48	240.00	239.23	239.23	239.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 242.86 M (MSL), AT 19.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 240.12 M (MSL), RIVER BED 239.23 M (MSL)
LEFT BANK ELEVATION 251.89 M (MSL)
RIGHT BANK ELEVATION 251.35 M (MSL), DRAINAGE AREA 1103 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.02	0.70	0.00	0.00	0.00	5.55	0.61	0.16	0.04	0.00	0.00	
2	0.02	0.01	0.51	0.00	0.00	0.00	4.68	0.61	0.16	0.04	0.00	0.00	
3	0.06	0.01	0.28	0.00	0.00	0.00	4.25	0.58	0.14	0.04	0.00	0.00	
4	0.05	0.03	0.20	0.00	0.00	0.00	4.39	0.51	0.20	0.03	0.00	0.00	
5	0.05	0.10	0.16	0.00	0.00	0.00	3.44	0.51	0.18	0.01	0.00	0.00	
6	0.12	1.15	0.14	0.00	0.00	0.01	2.30	0.44	0.18	0.00	0.00	0.00	
7	0.10	0.51	0.16	0.05	0.16	1.82	1.82	0.33	0.10	0.00	0.00	0.00	
8	0.08	0.30	0.16	0.05	0.51	1.75	1.60	0.30	0.08	0.00	0.00	0.00	
9	0.08	0.26	0.16	0.05	0.58	24.24	1.45	0.28	0.14	0.00	0.00	0.00	
10	0.10	0.20	0.09	0.03	0.44	24.57	1.82	0.30	0.14	0.00	0.00	0.00	
11	0.24	0.12	0.08	0.05	0.30	10.90	3.03	0.30	0.12	0.00	0.00	0.00	
12	0.28	0.09	0.10	0.08	0.22	5.12	12.52	0.30	0.18	0.00	0.00	0.00	
13	0.28	0.07	0.24	0.08	0.16	2.70	7.18	0.26	0.12	0.00	0.00	0.00	
14	0.28	0.05	0.20	0.09	0.10	1.90	4.83	0.26	0.04	0.00	0.00	0.00	
15	0.37	0.05	0.16	0.06	0.05	1.45	2.90	0.22	0.04	0.00	0.00	0.00	
16	0.28	0.05	0.09	0.06	0.04	1.22	2.20	0.22	0.03	0.00	0.00	0.00	
17	0.26	0.04	0.07	0.04	0.05	5.12	1.75	0.18	0.03	0.00	0.00	0.00	
18	0.40	0.01	0.06	0.03	0.30	3.30	1.52	0.20	0.03	0.00	0.00	0.00	
19	0.28	0.05	0.04	0.03	0.24	3.44	1.22	0.22	0.02	0.00	0.00	0.00	
20	0.90	0.03	0.03	0.03	0.22	2.20	1.15	0.22	0.02	0.00	0.00	0.00	
21	0.48	0.01	0.01	0.02	0.14	1.75	0.95	0.26	0.02	0.00	0.00	0.00	
22	0.28	0.02	0.01	0.01	0.09	1.75	0.80	0.26	0.01	0.00	0.00	0.00	
23	0.20	0.05	0.01	0.01	0.05	5.70	0.65	0.24	0.03	0.00	0.00	0.00	
24	0.10	0.07	0.01	0.00	0.05	5.26	0.61	0.20	0.02	0.00	0.00	0.00	
25	0.08	0.12	0.01	0.00	0.03	4.39	6.07	0.20	0.02	0.00	0.00	0.00	
26	0.05	0.54	0.00	0.00	0.01	6.62	1.90	0.22	0.01	0.00	0.00	0.00	
27	0.04	0.61	0.00	0.00	0.01	12.28	1.37	0.20	0.01	0.00	0.00	0.00	
28	0.02	1.00	0.00	0.00	0.00	7.18	1.15	0.14	0.01	0.00	0.00	0.00	
29	0.01	0.95	0.00	0.00	0.00	4.83	0.85	0.16	0.01	0.00		0.00	
30	0.04	0.80	0.00	0.00	0.00	4.39	0.70	0.16	0.01	0.00		0.00	
31		0.75		0.00	0.00		0.65		0.01	0.00		0.00	
TOTAL	5.57	8.07	3.68	0.77	3.75	143.89	85.30	8.89	2.27	0.16	0.00	0.00	262.35 CMSDAY
MEAN	0.19	0.26	0.12	0.02	0.12	4.80	2.75	0.30	0.07	0.01	0.00	0.00	0.72 CMS
MAX	0.90	1.15	0.70	0.09	0.58	24.57	12.52	0.61	0.20	0.04	0.00	0.00	24.57 CMS
MIN	0.01	0.01	0.00	0.00	0.00	0.00	0.61	0.14	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.481	0.697	0.318	0.067	0.324	12.432	7.370	0.768	0.196	0.014	0.000	0.000	22.667 MCM

MOMENTARY PEAK 56.08 CMS, AT 242.86 M (MSL), AT 19.00 HOURS, ON SEP 9, 1982
RUNOFF YIELD 0.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 50.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

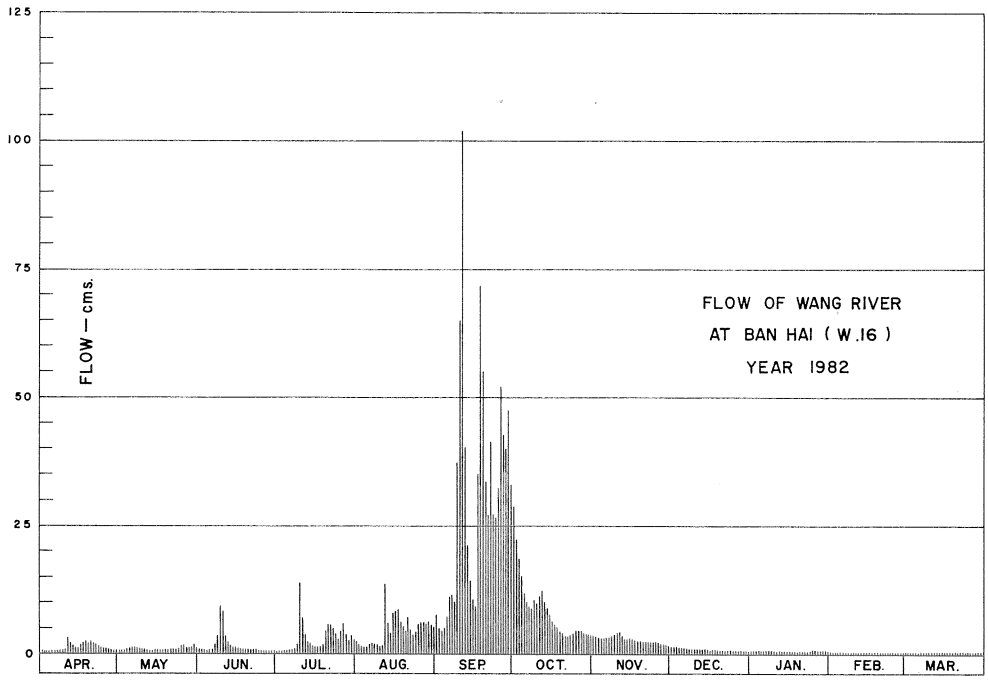
WANG RIVER AT BAN HAI, LAMPANG (W.16)

LOCATION	LAT. 18°-48'-12" N., LONG. 99°-38'-45" E., ON RIGHT BANK AT BAN HAI, AMPHOE CHAE HOM LAMPANG.
DRAINAGE AREA	1,284 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+7.676 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 188 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.45	0.48	0.42	0.70	0.99	1.67	0.78	0.59	0.47	0.40	0.32	
2	0.40	0.44	0.46	0.43	0.64	0.88	1.49	0.77	0.58	0.47	0.40	0.32	
3	0.40	0.44	0.45	0.43	0.61	0.83	1.37	0.76	0.59	0.45	0.39	0.32	
4	0.40	0.44	0.43	0.43	0.59	0.85	1.30	0.76	0.58	0.45	0.38	0.32	
5	0.40	0.48	0.43	0.44	0.57	0.95	1.19	0.75	0.56	0.45	0.38	0.32	
6	0.40	0.55	0.44	0.46	0.62	1.12	1.10	0.74	0.55	0.46	0.38	0.32	
7	0.42	0.56	0.50	0.47	0.65	1.13	1.06	0.76	0.54	0.47	0.38	0.31	
8	0.42	0.55	0.73	0.49	0.62	1.09	1.04	0.76	0.52	0.47	0.38	0.31	
9	0.42	0.54	1.06	0.61	0.60	1.77	1.10	0.78	0.52	0.45	0.38	0.31	
10	0.44	0.51	1.02	1.22	0.59	2.40	1.08	0.81	0.52	0.45	0.36	0.30	
11	0.74	0.48	0.82	0.97	0.60	2.84	1.11	0.82	0.51	0.44	0.35	0.30	
12	0.67	0.47	0.71	0.83	1.21	1.97	1.16	0.80	0.51	0.45	0.35	0.30	
13	0.62	0.45	0.64	0.70	0.97	1.53	1.09	0.76	0.51	0.45	0.35	0.30	
14	0.57	0.44	0.58	0.65	0.81	1.28	1.06	0.73	0.51	0.44	0.35	0.29	
15	0.56	0.45	0.55	0.60	1.00	1.17	1.00	0.75	0.50	0.43	0.35	0.29	
16	0.60	0.45	0.54	0.58	1.01	1.06	0.95	0.73	0.49	0.42	0.35	0.29	
17	0.65	0.43	0.51	0.58	1.03	1.81	0.92	0.72	0.49	0.41	0.35	0.29	
18	0.68	0.43	0.50	0.57	0.95	2.42	0.88	0.70	0.49	0.41	0.34	0.29	
19	0.66	0.44	0.49	0.56	0.89	2.11	0.85	0.70	0.48	0.41	0.34	0.28	
20	0.69	0.47	0.48	0.78	0.82	1.77	0.81	0.69	0.49	0.41	0.34	0.27	
21	0.66	0.49	0.47	0.91	0.96	1.58	0.78	0.68	0.49	0.41	0.34	0.27	
22	0.64	0.49	0.46	0.90	0.87	1.89	0.77	0.68	0.49	0.41	0.34	0.28	
23	0.61	0.49	0.45	0.87	0.78	1.59	0.78	0.67	0.49	0.42	0.34	0.28	
24	0.58	0.49	0.44	0.81	0.81	1.57	0.80	0.66	0.48	0.45	0.33	0.28	
25	0.55	0.59	0.43	0.74	0.89	1.73	0.82	0.68	0.47	0.47	0.33	0.27	
26	0.52	0.62	0.42	0.82	0.92	2.09	0.84	0.68	0.47	0.48	0.32	0.26	
27	0.50	0.52	0.42	0.91	0.92	1.91	0.84	0.66	0.47	0.47	0.33	0.26	
28	0.48	0.53	0.41	0.79	0.90	1.86	0.82	0.64	0.47	0.45	0.32	0.26	
29	0.47	0.55	0.41	0.71	0.92	2.00	0.80	0.62	0.42	0.44		0.27	
30	0.46	0.62	0.42	0.77	0.92	1.72	0.79	0.61	0.42	0.43		0.27	
31		0.52		0.72	0.86		0.78		0.42	0.41		0.27	
MEAN	0.53	0.50	0.54	0.68	0.81	1.60	1.00	0.72	0.50	0.44	0.36	0.29	
MAX	0.74	0.62	1.06	1.22	1.21	2.84	1.67	0.82	0.59	0.48	0.40	0.32	2.84
MIN	0.40	0.43	0.41	0.42	0.57	0.83	0.77	0.61	0.42	0.41	0.32	0.26	0.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.29 M (A.D), AT 3.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.10 M (A.D)
LEFT BANK ELEVATION 7.17 M (A.D)
RIGHT BANK ELEVATION 7.70 M (A.D), DRAINAGE AREA 1284 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	0.75	0.90	0.60	2.60	7.78	31.22	3.72	1.54	0.85	0.50	0.18	
2	0.50	0.70	0.80	0.65	2.00	5.44	23.63	3.58	1.48	0.85	0.50	0.18	
3	0.50	0.70	0.75	0.65	1.70	4.54	19.19	3.44	1.54	0.75	0.46	0.18	
4	0.50	0.70	0.65	0.65	1.54	4.90	16.60	3.44	1.48	0.75	0.42	0.18	
5	0.50	0.90	0.65	0.70	1.42	6.90	13.02	3.30	1.36	0.75	0.42	0.18	
6	0.50	1.30	0.70	0.80	1.80	11.06	10.50	3.16	1.30	0.80	0.42	0.18	
7	0.60	1.36	1.00	0.85	2.10	11.34	9.50	3.44	1.24	0.85	0.42	0.14	
8	0.60	1.30	3.02	0.95	1.80	10.25	9.00	3.44	1.12	0.85	0.42	0.14	
9	0.60	1.24	9.50	1.70	1.60	35.82	10.50	3.72	1.12	0.75	0.42	0.14	
10	0.70	1.06	8.50	13.96	1.54	70.50	10.00	4.18	1.12	0.75	0.34	0.10	
11	3.16	0.90	4.36	7.34	1.60	101.80	10.78	4.36	1.06	0.70	0.30	0.10	
12	2.30	0.85	2.74	4.54	13.63	45.91	12.18	4.00	1.06	0.75	0.30	0.10	
13	1.80	0.75	2.00	2.60	7.34	25.20	10.25	3.44	1.06	0.75	0.30	0.10	
14	1.42	0.70	1.48	2.10	4.18	15.94	9.50	3.02	1.06	0.70	0.30	0.09	
15	1.36	0.75	1.30	1.60	8.00	12.46	8.00	3.30	1.00	0.65	0.30	0.09	
16	1.60	0.75	1.24	1.48	8.25	9.50	6.90	3.02	0.95	0.60	0.30	0.09	
17	2.10	0.65	1.06	1.48	8.75	37.70	6.24	2.88	0.95	0.55	0.30	0.09	
18	2.40	0.65	1.00	1.42	6.90	71.87	5.44	2.60	0.95	0.55	0.26	0.09	
19	2.20	0.70	0.95	1.36	5.62	53.37	4.90	2.60	0.90	0.55	0.26	0.08	
20	2.50	0.85	0.90	3.72	4.36	35.82	4.18	2.50	0.95	0.55	0.26	0.07	
21	2.20	0.95	0.85	6.02	7.12	27.20	3.72	2.40	0.95	0.55	0.26	0.07	
22	2.00	0.95	0.80	5.80	5.26	41.70	3.58	2.40	0.95	0.55	0.26	0.08	
23	1.70	0.95	0.75	5.26	3.72	27.60	3.72	2.30	0.95	0.60	0.26	0.08	
24	1.48	0.95	0.70	4.18	4.18	26.80	4.00	2.20	0.90	0.75	0.22	0.08	
25	1.30	1.54	0.65	3.16	5.62	33.98	4.36	2.40	0.85	0.85	0.22	0.07	
26	1.12	1.80	0.60	4.36	6.24	52.27	4.72	2.40	0.85	0.90	0.18	0.06	
27	1.00	1.12	0.60	6.02	6.24	42.73	4.72	2.20	0.85	0.85	0.22	0.06	
28	0.90	1.18	0.55	3.86	5.80	40.20	4.36	2.00	0.85	0.75	0.18	0.06	
29	0.85	1.30	0.55	2.74	6.24	47.50	4.00	1.80	0.60	0.70		0.07	
30	0.80	1.80	0.60	3.58	6.24	33.52	3.86	1.70	0.60	0.65		0.07	
31		1.12		2.88	5.08		3.72		0.60	0.55		0.07	
TOTAL	39.69	31.22	50.15	97.01	148.47	951.60	276.29	88.94	32.19	22.00	9.00	3.27	1749.83 CMSDAY
MEAN	1.32	1.01	1.67	3.13	4.79	31.72	8.91	2.96	1.04	0.71	0.32	0.11	4.79 CMS
MAX	3.16	1.80	9.50	13.96	13.63	101.80	31.22	4.36	1.54	0.90	0.50	0.18	101.80 CMS
MIN	0.50	0.65	0.55	0.60	1.42	4.54	3.58	1.70	0.60	0.55	0.18	0.06	0.06 CMS
RUNOFF	3.429	2.697	4.333	8.382	12.828	82.218	23.871	7.684	2.781	1.901	0.778	0.283	151.185 MCM

MOMENTARY PEAK 140.10 CMS, AT 3.29 M (A.D), AT 3.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 3.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WANG RIVER BASIN

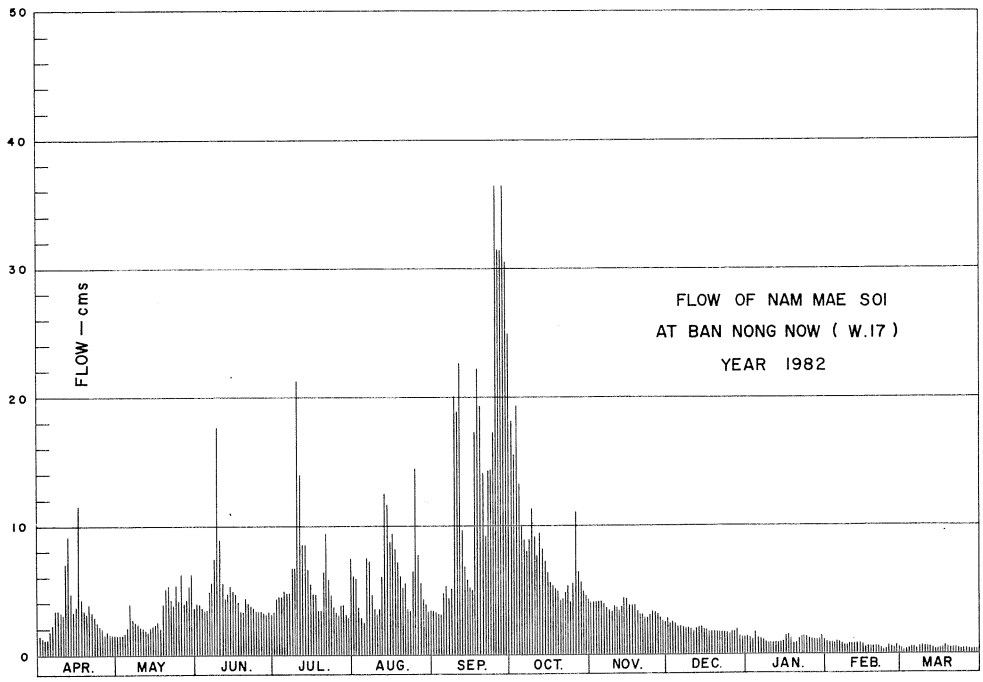
NAM MAE SOI AT BAN NONG NOW, LAMPANG (W.17)

LOCATION	LAT. 18°-43′-16″ N., LONG 99°-34′-12″ E., ON RIGHT BANK AT THE BRIDGE OF LAMPANG-WANG NUA ROAD, BAN NONG NOW, TAMBON CHAE HOM, AMPHOE CHAE HOM, LAMPANG.
DRAINAGE AREA	619 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+292.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+295.874 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE AND SOME SCOURING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.42	292.43	292.61	292.57	292.72	292.58	293.15	292.62	292.53	292.42	292.37	292.30	
2	292.41	292.43	292.61	292.63	292.71	292.58	293.05	292.61	292.51	292.42	292.36	292.26	
3	292.39	292.43	292.60	292.64	292.61	292.57	293.15	292.61	292.51	292.39	292.36	292.27	
4	292.40	292.44	292.58	292.64	292.55	292.55	293.00	292.62	292.51	292.45	292.35	292.30	
5	292.47	292.49	292.58	292.66	292.51	292.65	292.89	292.62	292.50	292.41	292.37	292.32	
6	292.50	292.61	292.66	292.65	292.78	292.68	292.85	292.61	292.48	292.40	292.36	292.31	
7	292.58	292.53	292.70	292.65	292.77	292.63	292.80	292.59	292.48	292.39	292.37	292.29	
8	292.58	292.52	292.78	292.74	292.67	292.68	292.84	292.58	292.47	292.39	292.33	292.32	
9	292.58	292.51	293.11	292.75	292.61	293.17	292.92	292.57	292.47	292.37	292.34	292.33	
10	292.55	292.49	292.83	293.20	292.56	293.14	292.85	292.59	292.47	292.37	292.35	292.33	
11	292.75	292.48	292.70	293.13	292.59	293.23	292.79	292.59	292.46	292.37	292.35	292.32	
12	292.84	292.47	292.63	292.82	292.73	292.87	292.85	292.58	292.47	292.36	292.35	292.31	
13	292.66	292.46	292.65	292.82	292.96	292.77	292.81	292.59	292.47	292.37	292.35	292.31	
14	292.57	292.48	292.68	292.75	292.93	292.71	292.78	292.63	292.48	292.37	292.35	292.27	
15	292.59	292.49	292.66	292.72	292.83	292.67	292.74	292.63	292.47	292.38	292.35	292.29	
16	292.93	292.50	292.65	292.65	292.85	292.66	292.70	292.60	292.47	292.43	292.32	292.29	
17	292.64	292.51	292.63	292.65	292.82	293.10	292.68	292.60	292.46	292.43	292.33	292.29	
18	292.58	292.47	292.57	292.58	292.78	293.22	292.67	292.60	292.46	292.39	292.33	292.32	
19	292.56	292.60	292.57	292.58	292.73	293.13	292.66	292.58	292.46	292.35	292.33	292.30	
20	292.60	292.67	292.63	292.70	292.67	293.00	292.62	292.56	292.46	292.35	292.33	292.29	
21	292.57	292.68	292.61	292.85	292.69	292.84	292.63	292.56	292.46	292.40	292.33	292.30	
22	292.55	292.63	292.60	292.74	292.59	293.01	292.65	292.54	292.46	292.41	292.31	292.31	
23	292.52	292.60	292.59	292.68	292.58	293.02	292.68	292.54	292.45	292.42	292.28	292.30	
24	292.50	292.68	292.58	292.61	292.73	293.10	292.63	292.55	292.45	292.41	292.30	292.29	
25	292.48	292.62	292.57	292.57	293.02	293.50	292.65	292.57	292.44	292.40	292.34	292.29	
26	292.44	292.72	292.57	292.55	292.80	293.41	292.91	292.57	292.46	292.40	292.33	292.28	
27	292.45	292.61	292.57	292.60	292.73	293.41	292.73	292.56	292.45	292.40	292.31	292.28	
28	292.44	292.62	292.56	292.60	292.64	293.50	292.69	292.54	292.47	292.39	292.33	292.28	
29	292.44	292.68	292.57	292.57	292.62	293.41	292.66	292.53	292.42	292.40		292.28	
30	292.43	292.72	292.56	292.54	292.57	293.27	292.64	292.52	292.42	292.42		292.27	
31		292.59		292.78	292.58		292.63		292.42	292.38		292.27	
MEAN	292.55	292.55	292.64	292.70	292.71	292.97	292.78	292.58	292.47	292.39	292.34	292.30	
MAX	292.93	292.72	293.11	293.20	293.02	293.50	293.15	292.63	292.53	292.45	292.37	292.33	293.50
MIN	292.39	292.43	292.56	292.54	292.51	292.55	292.62	292.52	292.42	292.35	292.28	292.26	292.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 293.56 M (MSL), AT 6.00 HOURS, ON SEP 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 292.00 M (MSL), RIVER BED 291.79 M (MSL)
LEFT BANK ELEVATION 296.71 M (MSL)
RIGHT BANK ELEVATION 296.70 M (MSL), DRAINAGE AREA 619 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.44	1.55	4.09	3.44	6.27	3.59	19.30	4.28	2.81	1.44	0.98	0.45	
2	1.32	1.55	4.09	4.47	6.03	3.59	15.60	4.09	2.51	1.44	0.91	0.27	
3	1.13	1.55	3.90	4.66	4.09	3.44	19.30	4.09	2.51	1.13	0.91	0.31	
4	1.21	1.67	3.59	4.66	3.12	3.12	13.90	4.28	2.51	1.78	0.83	0.45	
5	2.01	2.24	3.59	5.04	2.51	4.85	10.54	4.28	2.35	1.32	0.98	0.60	
6	2.35	4.09	5.04	4.85	7.68	5.42	9.48	4.09	2.12	1.21	0.91	0.53	
7	3.59	2.81	5.80	4.85	7.44	4.47	8.15	3.74	2.12	1.13	0.98	0.41	
8	3.59	2.66	7.68	6.74	5.23	5.42	9.21	3.59	2.01	1.13	0.68	0.60	
9	3.59	2.51	17.70	6.98	4.09	20.10	11.42	3.44	2.01	0.98	0.75	0.68	
10	3.12	2.24	8.94	21.30	3.28	18.90	9.48	3.74	2.01	0.98	0.83	0.68	
11	6.98	2.12	5.80	18.50	3.74	22.68	7.92	3.74	1.89	0.98	0.83	0.60	
12	9.21	2.01	4.47	8.68	6.51	10.01	9.48	3.59	2.01	0.91	0.83	0.53	
13	5.04	1.89	4.85	8.68	12.66	7.44	8.42	3.74	2.01	0.98	0.83	0.53	
14	3.44	2.12	5.42	6.98	11.73	6.03	7.68	4.47	2.12	0.98	0.83	0.31	
15	3.74	2.24	5.04	6.27	8.94	5.23	6.74	4.47	2.01	1.06	0.83	0.41	
16	11.73	2.35	4.85	4.85	9.48	5.04	5.80	3.90	2.01	1.55	0.60	0.41	
17	4.66	2.51	4.47	4.85	8.68	17.30	5.42	3.90	1.89	1.55	0.68	0.41	
18	3.59	2.01	3.44	3.59	7.68	22.22	5.23	3.90	1.89	1.13	0.68	0.60	
19	3.28	3.90	3.44	3.59	6.51	18.50	5.04	3.59	1.89	0.83	0.68	0.45	
20	3.90	5.23	4.47	5.80	5.23	13.90	4.28	3.28	1.89	0.83	0.68	0.41	
21	3.44	5.42	4.09	9.48	5.61	9.21	4.47	3.28	1.89	1.21	0.68	0.45	
22	3.12	4.47	3.90	6.74	3.74	14.24	4.85	2.97	1.89	1.32	0.53	0.53	
23	2.66	3.90	3.74	5.42	3.59	14.58	5.42	2.97	1.78	1.44	0.36	0.45	
24	2.35	5.42	3.59	4.09	6.51	17.30	4.47	3.12	1.78	1.32	0.45	0.41	
25	2.12	4.28	3.44	3.44	14.58	36.40	4.85	3.44	1.67	1.21	0.75	0.41	
26	1.67	6.27	3.44	3.12	8.15	31.45	11.11	3.44	1.89	1.21	0.68	0.36	
27	1.78	4.09	3.44	3.90	6.51	31.45	6.51	3.28	1.78	1.21	0.53	0.36	
28	1.67	4.28	3.28	3.90	4.66	36.40	5.61	2.97	2.01	1.13	0.68	0.36	
29	1.67	5.42	3.44	3.44	4.28	31.45	5.04	2.81	1.44	1.21		0.36	
30	1.55	6.27	3.28	2.97	3.44	24.52	4.66	2.66	1.44	1.44		0.31	
31		3.74		7.68	3.59		4.47		1.44	1.06		0.31	
TOTAL	100.95	102.81	146.31	192.96	195.56	448.25	253.85	109.14	61.58	37.10	20.89	13.95	1683.35 CMSDAY
MEAN	3.37	3.32	4.88	6.22	6.31	14.94	8.19	3.64	1.99	1.20	0.75	0.45	4.61 CMS
MAX	11.73	6.27	17.70	21.30	14.58	36.40	19.30	4.47	2.81	1.78	0.98	0.68	36.40 CMS
MIN	1.13	1.55	3.28	2.97	2.51	3.12	4.28	2.66	1.44	0.83	0.36	0.27	0.27 CMS
RUNOFF	8.722	8.883	12.641	16.672	16.896	38.729	21.933	9.430	5.321	3.205	1.805	1.205	145.441 MCM

MOMENTARY PEAK 39.82 CMS, AT 293.56 M (MSL), AT 6.00 HOURS, ON SEP 28, 1982

RUNOFF YIELD 7.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 64.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

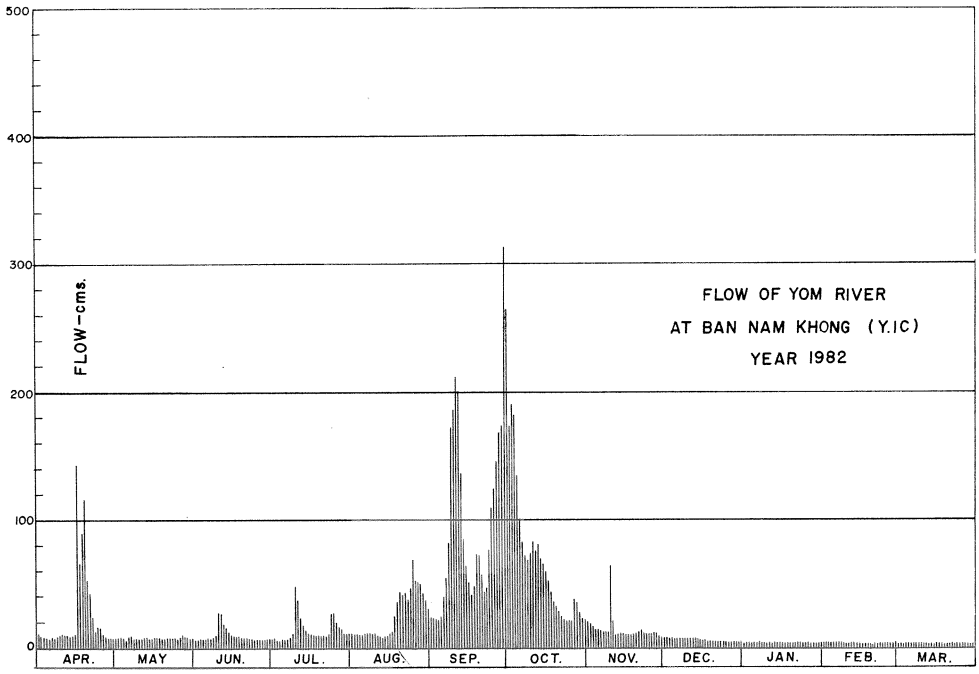
YOM RIVER AT BAN NAM KHONG, PHRAE (Y.1C)

LOCATION	LAT. 18°-07'-59" N., LONG. 100°-07'-39" E., ON RIGHT BANK ABOUT 5 METERS DOWNSTREAM FROM PHATHANA PHAK NUA 8 BRIDGE AT TAMBON PA MAT, AMPHOE MUANG, PHRAE.
DRAINAGE AREA	7,624 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+143.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF STATION OFFICE.
ELEVATION	+153.908 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 93 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	144.36	144.30	144.29	144.31	144.48	144.79	147.01	144.74	144.32	144.12	144.13	144.09	
2	144.35	144.33	144.28	144.28	144.47	144.78	146.49	144.72	144.33	144.13	144.13	144.07	
3	144.34	144.33	144.28	144.26	144.45	144.78	146.62	144.65	144.34	144.13	144.12	144.07	
4	144.35	144.28	144.30	144.26	144.43	144.74	146.52	144.59	144.33	144.14	144.12	144.07	
5	144.35	144.26	144.30	144.29	144.40	144.83	146.11	144.58	144.31	144.14	144.12	144.07	
6	144.34	144.37	144.30	144.29	144.46	145.19	145.83	144.57	144.31	144.14	144.11	144.07	
7	144.33	144.37	144.30	144.32	144.51	145.36	145.68	144.55	144.30	144.14	144.11	144.08	
8	144.36	144.32	144.34	144.33	144.50	145.71	145.54	144.53	144.30	144.14	144.10	144.08	
9	144.38	144.31	144.45	144.57	144.46	146.56	145.49	144.51	144.30	144.14	144.09	144.08	
10	144.46	144.30	144.89	145.22	144.44	146.59	145.63	145.46	144.29	144.14	144.09	144.07	
11	144.43	144.30	144.85	145.00	144.42	146.77	145.69	144.45	144.28	144.14	144.08	144.06	
12	144.41	144.32	144.67	144.78	144.38	146.64	145.59	144.43	144.28	144.14	144.08	144.06	
13	144.41	144.33	144.59	144.62	144.36	145.99	145.64	144.44	144.28	144.12	144.08	144.06	
14	144.40	144.31	144.46	144.52	144.40	145.60	145.51	144.45	144.28	144.11	144.07	144.06	
15	144.40	144.30	144.42	144.47	144.44	145.35	145.45	144.45	144.27	144.11	144.06	144.06	
16	146.25	144.38	144.40	144.44	144.50	145.25	145.36	144.48	144.25	144.10	144.05	144.06	
17	145.47	144.34	144.39	144.42	144.53	145.10	145.29	144.44	144.24	144.09	144.05	144.07	
18	145.78	144.32	144.37	144.41	144.97	145.28	145.14	144.43	144.22	144.08	144.05	144.07	
19	146.01	144.30	144.35	144.41	145.07	145.58	145.02	144.45	144.21	144.07	144.05	144.06	
20	145.18	144.34	144.34	144.40	145.14	145.54	144.96	144.52	144.21	144.07	144.05	144.06	
21	145.10	144.32	144.33	144.39	145.12	145.31	144.89	144.54	144.21	144.07	144.05	144.06	
22	144.76	144.32	144.32	144.40	145.13	145.13	144.81	144.59	144.20	144.10	144.07	144.06	
23	144.51	144.34	144.32	144.43	145.06	145.29	144.78	144.50	144.19	144.11	144.08	144.06	
24	144.62	144.36	144.30	144.91	145.21	145.81	144.77	144.48	144.19	144.11	144.08	144.06	
25	144.60	144.36	144.30	144.85	145.50	146.05	144.76	144.45	144.19	144.11	144.08	144.05	
26	144.41	144.33	144.30	144.69	145.26	146.14	144.78	144.44	144.17	144.10	144.08	144.05	
27	144.38	144.43	144.30	144.62	145.26	146.36	145.05	144.50	144.14	144.10	144.08	144.05	
28	144.36	144.39	144.30	144.58	145.21	146.46	145.02	144.50	144.14	144.11	144.08	144.05	
29	144.33	144.34	144.30	144.52	145.10	146.52	144.88	144.41	144.14	144.12		144.05	
30	144.30	144.33	144.30	144.50	145.01	147.42	144.80	144.36	144.13	144.12		144.05	
31		144.32		144.47	144.89		144.76		144.12	144.13		144.04	
MEAN	144.66	144.33	144.39	144.51	144.76	145.70	145.42	144.54	144.24	144.12	144.08	144.06	
MAX	146.25	144.43	144.89	145.22	145.50	147.42	147.01	145.46	144.34	144.14	144.13	144.09	147.42
MIN	144.30	144.26	144.28	144.26	144.36	144.74	144.76	144.36	144.12	144.07	144.05	144.04	144.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 147.54 M (MSL), AT 9.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 143.50 M (MSL), RIVER BED 143.17 M (MSL)
LEFT BANK ELEVATION 152.84 M (MSL)
RIGHT BANK ELEVATION 154.03 M (MSL), DRAINAGE AREA 7624 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.94	6.50	6.30	6.74	10.82	22.55	247.57	20.30	6.98	3.30	3.45	2.90	
2	7.70	7.22	6.10	6.10	10.58	22.10	173.70	19.40	7.22	3.45	3.45	2.70	
3	7.46	7.22	6.10	5.70	10.10	22.10	190.80	16.50	7.46	3.45	3.30	2.70	
4	7.70	6.10	6.50	5.70	9.62	20.30	177.60	14.18	7.22	3.60	3.30	2.70	
5	7.70	5.70	6.50	6.30	8.90	24.59	126.47	13.86	6.74	3.60	3.30	2.70	
6	7.46	8.18	6.50	6.30	10.34	45.85	97.00	13.54	6.74	3.60	3.15	2.70	
7	7.22	8.18	6.50	6.98	11.62	57.20	82.80	12.90	6.50	3.60	3.15	2.80	
8	7.94	6.98	7.46	7.22	11.30	85.45	71.20	12.26	6.50	3.60	3.00	2.80	
9	8.42	6.74	10.10	13.54	10.34	182.80	67.20	11.62	6.50	3.60	2.90	2.80	
10	10.34	6.50	27.77	47.80	9.86	186.70	78.55	64.80	6.30	3.60	2.90	2.70	
11	9.62	6.50	25.65	34.00	9.38	211.80	83.65	10.10	6.10	3.60	2.80	2.60	
12	9.14	6.98	17.30	22.10	8.42	193.60	75.20	9.62	6.10	3.60	2.80	2.60	
13	9.14	7.22	14.18	15.30	7.94	113.00	79.40	9.86	6.10	3.30	2.80	2.60	
14	8.90	6.74	10.34	11.94	8.90	76.00	68.80	10.10	6.10	3.15	2.70	2.60	
15	8.90	6.50	9.38	10.58	9.86	56.50	64.00	10.10	5.90	3.15	2.60	2.60	
16	143.25	8.42	8.90	9.86	11.30	49.75	57.20	10.82	5.50	3.00	2.50	2.60	
17	65.60	7.46	8.66	9.38	12.26	40.00	52.35	9.86	5.30	2.90	2.50	2.70	
18	92.10	6.98	8.18	9.14	32.29	51.70	42.60	9.62	4.90	2.80	2.50	2.70	
19	115.13	6.50	7.70	9.14	38.20	74.40	35.20	10.10	4.70	2.70	2.50	2.60	
20	45.20	7.46	7.46	8.90	42.60	71.20	31.72	11.94	4.70	2.70	2.50	2.60	
21	40.00	6.98	7.22	8.66	41.30	53.70	27.77	12.58	4.70	2.70	2.50	2.60	
22	21.20	6.98	6.98	8.90	41.95	41.95	23.53	14.18	4.50	3.00	2.70	2.60	
23	11.62	7.46	6.98	9.62	37.60	52.35	22.10	11.30	4.35	3.15	2.80	2.60	
24	15.30	7.94	6.50	28.87	47.15	95.00	21.65	10.82	4.35	3.15	2.80	2.60	
25	14.50	7.94	6.50	25.65	68.00	119.65	21.20	10.10	4.35	3.15	2.80	2.50	
26	9.14	7.22	6.50	18.10	50.40	129.98	22.10	9.86	4.05	3.00	2.80	2.50	
27	8.42	9.62	6.50	15.30	50.40	157.00	37.00	11.30	3.60	3.00	2.80	2.50	
28	7.94	8.66	6.50	13.86	47.15	169.80	35.20	11.30	3.60	3.15	2.80	2.50	
29	7.22	7.46	6.50	11.94	40.00	177.60	27.24	9.14	3.60	3.30		2.50	
30	6.50	7.22	6.50	11.30	34.60	313.40	23.00	7.94	3.45	3.30		2.50	
31		6.98		10.58	27.77		21.20		3.30	3.45		2.40	
TOTAL	728.70	224.54	274.26	415.50	770.95	2918.02	2185.00	410.00	167.41	100.65	80.10	81.50	8356.63 CMSDAY
MEAN	24.29	7.24	9.14	13.40	24.87	97.27	70.48	13.67	5.40	3.25	2.86	2.63	22.89 CMS
MAX	143.25	9.62	27.77	47.80	68.00	313.40	247.57	64.80	7.46	3.60	3.45	2.90	313.40 CMS
MIN	6.50	5.70	6.10	5.70	7.94	20.30	21.20	7.94	3.30	2.70	2.50	2.40	2.40 CMS
RUNOFF	62.960	19.400	23.696	35.899	66.610	252.117	188.784	35.424	14.464	8.696	6.921	7.042	722.013 MCM

MOMENTARY PEAK 333.80 CMS, AT 147.54 M (MSL), AT 9.00 HOURS, ON SEP 30, 1982

RUNOFF YIELD 3.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

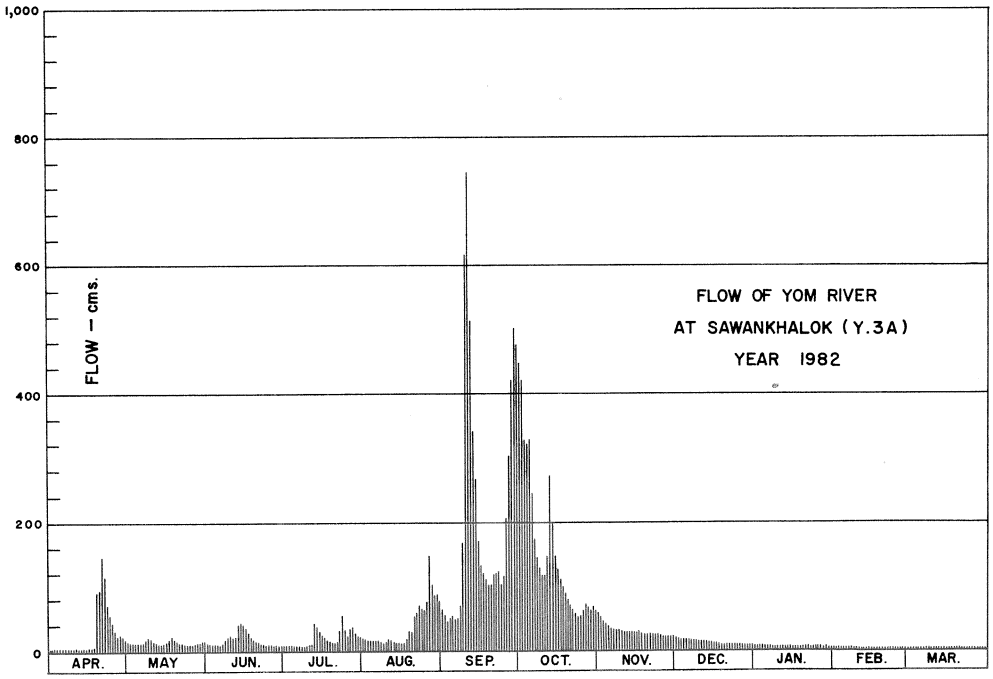
YOM RIVER AT SAWANKHALOK, SUKHOTHAI (Y.3A)

LOCATION	LAT. 17°-18'-29" N., LONG. 99°-49'-43" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE SAWANKHALOK, SUKHOTHAI.
DRAINAGE AREA	13,583 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+51.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF AUTOMATIC GAGE BUILDING.
ELEVATION	+60.559 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.49	51.84	51.81	51.64	51.98	52.77	56.34	52.63	52.03	51.65	51.50	51.40	
2	51.49	51.80	51.75	51.62	51.95	52.65	56.13	52.55	51.99	51.65	51.50	51.40	
3	51.49	51.77	51.72	51.62	51.92	52.50	55.38	52.48	51.97	51.64	51.50	51.40	
4	51.49	51.76	51.70	51.62	51.89	52.60	55.33	52.41	51.92	51.63	51.50	51.39	
5	51.49	51.74	51.70	51.62	51.87	52.62	55.38	52.35	51.89	51.63	51.50	51.39	
6	51.49	51.74	51.70	51.60	51.89	52.56	54.79	52.31	51.91	51.63	51.50	51.39	
7	51.49	51.79	51.75	51.60	51.89	52.59	54.22	52.28	51.90	51.62	51.50	51.39	
8	51.51	51.94	51.99	51.60	51.81	52.86	53.85	52.26	51.88	51.61	51.49	51.39	
9	51.55	51.99	52.05	51.61	51.79	54.15	53.63	52.24	51.85	51.61	51.49	51.39	
10	51.53	51.94	52.11	51.68	51.87	57.55	53.48	52.22	51.84	51.60	51.48	51.38	
11	51.50	51.85	52.02	51.67	51.90	58.48	53.48	52.20	51.81	51.59	51.46	51.37	
12	51.50	51.78	52.04	51.72	51.88	56.37	53.80	52.21	51.80	51.59	51.46	51.37	
13	51.50	51.74	52.38	52.45	51.83	55.53	54.93	52.18	51.79	51.58	51.46	51.37	
14	51.50	51.71	52.47	52.36	51.84	54.84	54.18	52.18	51.78	51.57	51.45	51.36	
15	51.52	51.71	52.47	52.16	51.81	54.08	53.87	52.16	51.75	51.56	51.45	51.36	
16	51.60	51.78	52.31	52.04	51.77	53.62	53.61	52.18	51.74	51.55	51.45	51.35	
17	51.62	51.79	52.14	51.96	51.76	53.47	53.42	52.21	51.72	51.55	51.44	51.35	
18	51.62	52.02	52.01	51.89	51.96	53.41	53.30	52.14	51.72	51.54	51.44	51.35	
19	53.13	51.94	51.93	51.85	52.22	53.30	53.17	52.15	51.72	51.53	51.44	51.35	
20	53.17	51.85	51.88	51.80	52.20	53.30	53.03	52.15	51.71	51.53	51.44	51.35	
21	53.76	51.78	51.82	51.77	52.59	53.48	52.89	52.13	51.69	51.53	51.43	51.33	
22	53.57	51.76	51.79	51.77	52.74	53.50	52.75	52.10	51.69	51.52	51.42	51.33	
23	52.97	51.72	51.76	52.29	52.89	53.52	52.67	52.11	51.69	51.51	51.42	51.33	
24	52.72	51.73	51.73	52.68	52.85	53.30	52.60	52.11	51.69	51.51	51.42	51.33	
25	52.48	51.72	51.73	52.28	52.82	53.47	52.63	52.11	51.66	51.51	51.41	51.33	
26	52.23	51.70	51.70	52.07	52.98	54.33	52.74	52.06	51.66	51.51	51.41	51.33	
27	52.08	51.70	51.68	52.30	53.78	55.22	52.91	52.04	51.66	51.51	51.41	51.33	
28	52.10	51.77	51.67	52.34	53.42	56.12	52.86	52.02	51.66	51.51	51.41	51.33	
29	52.05	51.84	51.66	52.17	53.12	56.74	52.78	52.00	51.65	51.51		51.33	
30	51.91	51.81	51.66	52.09	53.09	56.62	52.87	52.02	51.65	51.50		51.33	
31		51.86		52.03	52.94		52.73		51.65	51.50		51.33	
MEAN	51.98	51.80	51.90	51.93	52.30	54.19	53.73	52.21	51.78	51.56	51.46	51.36	
MAX	53.76	52.02	52.47	52.68	53.78	58.48	56.34	52.63	52.03	51.65	51.50	51.40	58.48
MIN	51.49	51.70	51.66	51.60	51.76	52.50	52.60	52.00	51.65	51.50	51.41	51.33	51.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 59.57 M (MSL), AT 24.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 51.00 M (MSL), RIVER BED 50.95 M (MSL)
LEFT BANK ELEVATION 61.00 M (MSL)
RIGHT BANK ELEVATION 60.70 M (MSL), DRAINAGE AREA 13583 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.80	14.60	13.40	8.20	20.20	62.90	449.20	53.80	22.20	8.50	5.00	3.00	
2	4.80	13.00	11.50	7.60	19.00	55.00	421.90	49.00	20.60	8.50	5.00	3.00	
3	4.80	12.10	10.60	7.60	17.80	46.00	326.60	44.80	19.80	8.20	5.00	3.00	
4	4.80	11.80	10.00	7.60	16.60	52.00	320.60	40.60	17.80	7.90	5.00	2.80	
5	4.80	11.20	10.00	7.60	15.80	53.20	326.60	37.50	16.60	7.90	5.00	2.80	
6	4.80	11.20	10.00	7.00	16.60	49.60	255.90	35.50	17.40	7.90	5.00	2.80	
7	4.80	12.70	11.50	7.00	16.60	51.40	193.20	34.00	17.00	7.60	5.00	2.80	
8	5.20	18.60	20.60	7.00	13.40	69.20	155.00	33.00	16.20	7.30	4.80	2.80	
9	6.00	20.60	23.00	7.30	12.70	185.50	133.00	32.00	15.00	7.30	4.80	2.80	
10	5.60	18.60	25.50	9.40	15.80	614.00	119.20	31.00	14.60	7.00	4.60	2.60	
11	5.00	15.00	21.80	9.10	17.00	744.20	119.20	30.00	13.40	6.80	4.20	2.40	
12	5.00	12.40	22.60	10.60	16.20	453.10	150.00	30.50	13.00	6.80	4.20	2.40	
13	5.00	11.20	39.00	43.00	14.20	344.60	272.60	29.00	12.70	6.60	4.20	2.40	
14	5.00	10.30	44.20	38.00	14.60	261.80	188.80	29.00	12.40	6.40	4.00	2.20	
15	5.40	10.30	44.20	28.00	13.40	178.00	157.00	28.00	11.50	6.20	4.00	2.20	
16	7.00	12.40	35.50	22.60	12.10	132.00	131.00	29.00	11.20	6.00	4.00	2.00	
17	7.60	12.70	27.00	19.40	11.80	118.30	113.80	30.50	10.60	6.00	3.80	2.00	
18	7.60	21.80	21.40	16.60	19.40	112.90	103.00	27.00	10.60	5.80	3.80	2.00	
19	89.40	18.60	18.20	15.00	31.00	103.00	92.60	27.50	10.60	5.60	3.80	2.00	
20	92.60	15.00	16.20	13.00	30.00	103.00	81.40	27.50	10.30	5.60	3.80	2.00	
21	146.00	12.40	13.80	12.10	51.40	119.20	71.30	26.50	9.70	5.60	3.60	1.60	
22	127.30	11.80	12.70	12.10	60.80	121.00	61.50	25.00	9.70	5.40	3.40	1.60	
23	76.90	10.60	11.80	34.50	71.30	122.80	56.20	25.50	9.70	5.20	3.40	1.60	
24	59.40	10.90	10.90	56.80	68.50	103.00	52.00	25.50	9.70	5.20	3.40	1.60	
25	44.80	10.60	10.90	34.00	66.40	118.30	53.80	25.50	8.80	5.20	3.20	1.60	
26	31.50	10.00	10.00	23.80	77.60	205.30	60.80	23.40	8.80	5.20	3.20	1.60	
27	24.20	10.00	9.40	35.00	148.00	307.40	72.70	22.60	8.80	5.20	3.20	1.60	
28	25.00	12.10	9.10	37.00	113.80	420.60	69.20	21.80	8.80	5.20	3.20	1.60	
29	23.00	14.60	8.80	28.50	88.60	501.20	63.60	21.00	8.50	5.20		1.60	
30	17.40	13.40	8.80	24.60	86.20	485.60	69.90	21.80	8.50	5.00		1.60	
31		15.40		22.20	74.80		60.10		8.50	5.00		1.60	
TOTAL	855.50	415.90	542.40	612.20	1251.60	6294.10	4801.70	917.80	393.00	197.30	115.60	67.60	16464.70 CMSDAY
MEAN	28.52	13.42	18.08	19.75	40.37	209.80	154.89	30.59	12.68	6.36	4.13	2.18	45.11 CMS
MAX	146.00	21.80	44.20	56.80	148.00	744.20	449.20	53.80	22.20	8.50	5.00	3.00	744.20 CMS
MIN	4.80	10.00	8.80	7.00	11.80	46.00	52.00	21.00	8.50	5.00	3.20	1.60	1.60 CMS
RUNOFF	73.915	35.934	46.863	52.894	108.138	543.810	414.867	79.298	33.955	17.047	9.988	5.841	1422.550 MCM

MOMENTARY PEAK 906.50 CMS, AT 59.57 M (MSL), AT 24.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 3.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

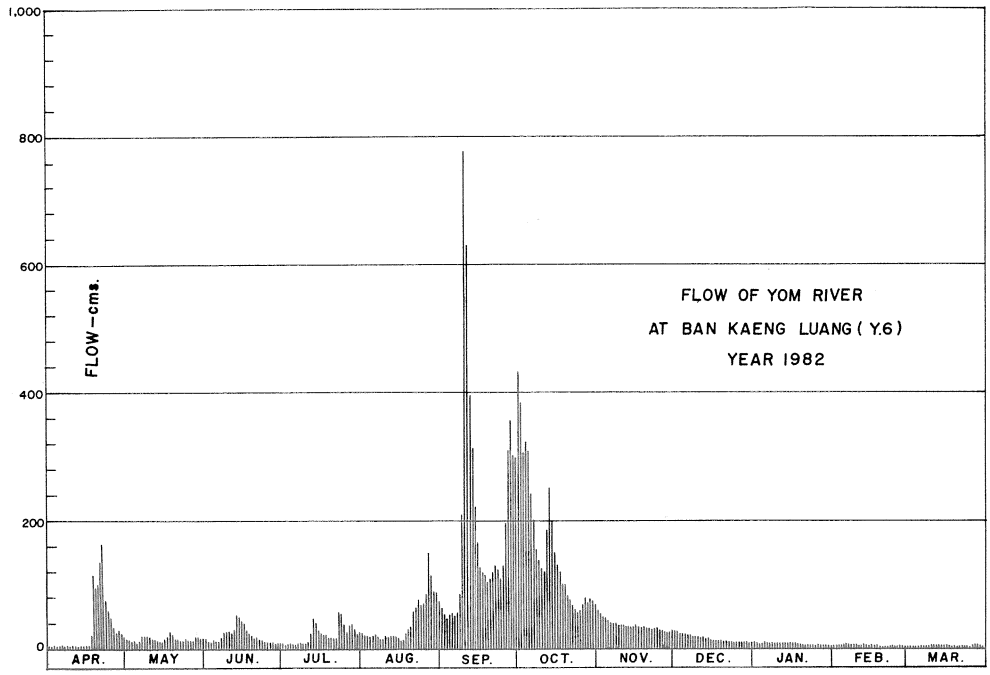
YOM RIVER AT BAN KAENG LUANG, SUKHOTHAI (Y.6)

LOCATION	LAT. 17°-26'-03" N., LONG. 99°-47'-32" E., ON LEFT BANK ABOUT 150 METERS UPSTREAM FROM KAENG LUANG, AMPHOE SI SATCHANALAI, SUKHOTHAI.
DRAINAGE AREA	12,658 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+59.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+68.928 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1952 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1952 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1952 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW DIVERTED FOR IRRIGATION OF ABOUT 24,000 HECTARES AT ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	59.51	59.88	59.89	59.73	60.09	60.79	63.21	60.73	60.19	59.73	59.58	59.46	
2	59.51	59.84	59.83	59.73	60.06	60.67	62.97	60.65	60.16	59.73	59.59	59.45	
3	59.54	59.83	59.81	59.71	60.04	60.59	62.61	60.61	60.12	59.72	59.60	59.45	
4	59.53	59.81	59.80	59.71	60.00	60.70	62.68	60.56	60.08	59.72	59.60	59.45	
5	59.51	59.79	59.80	59.70	59.99	60.70	62.60	60.51	60.07	59.72	59.59	59.44	
6	59.51	59.80	59.79	59.70	60.03	60.65	62.22	60.46	60.08	59.72	59.59	59.44	
7	59.52	60.01	59.96	59.70	59.99	60.71	61.89	60.44	60.05	59.71	59.58	59.43	
8	59.61	60.02	60.23	59.70	59.94	61.05	61.63	60.41	60.00	59.71	59.57	59.43	
9	59.59	60.09	60.18	59.74	59.94	62.24	61.48	60.39	59.98	59.71	59.56	59.43	
10	59.55	60.00	60.20	59.76	60.02	64.30	61.39	60.37	59.96	59.71	59.55	59.43	
11	59.54	59.90	60.15	59.78	60.02	63.95	61.41	60.35	59.93	59.70	59.54	59.43	
12	59.53	59.85	60.21	60.11	59.98	63.01	61.89	60.35	59.92	59.69	59.54	59.42	
13	59.52	59.81	60.67	60.59	59.95	62.68	62.32	60.34	59.90	59.68	59.53	59.41	
14	59.53	59.78	60.57	60.41	60.00	62.19	61.85	60.33	59.89	59.67	59.53	59.40	
15	59.67	59.82	60.52	60.25	59.93	61.72	61.65	60.31	59.88	59.67	59.52	59.40	
16	59.69	59.93	60.36	60.15	59.89	61.42	61.45	60.37	59.86	59.66	59.52	59.40	
17	59.69	59.98	60.20	60.07	59.95	61.39	61.34	60.34	59.85	59.64	59.51	59.39	
18	61.33	60.16	60.10	60.01	60.25	61.33	61.22	60.30	59.84	59.63	59.51	59.39	
19	61.11	60.01	60.04	59.96	60.34	61.23	61.12	60.32	59.83	59.62	59.51	59.38	
20	61.37	59.94	59.98	59.92	60.38	61.29	61.01	60.32	59.82	59.62	59.50	59.38	
21	61.74	59.86	59.93	59.90	60.78	61.42	60.89	60.29	59.81	59.61	59.49	59.38	
22	61.36	59.84	59.90	59.91	60.81	61.43	60.81	60.27	59.80	59.61	59.49	59.37	
23	60.87	59.82	59.87	60.73	60.94	61.40	60.75	60.29	59.79	59.61	59.48	59.37	
24	60.71	59.84	59.84	60.68	60.88	61.25	60.70	60.29	59.78	59.61	59.48	59.37	
25	60.46	59.82	59.81	60.31	60.87	61.50	60.74	60.26	59.77	59.60	59.47	59.37	
26	60.26	59.82	59.78	60.20	61.19	62.15	60.88	60.22	59.76	59.60	59.47	59.37	
27	60.18	59.84	59.77	60.48	61.63	62.76	60.98	60.21	59.75	59.60	59.46	59.36	
28	60.20	59.95	59.77	60.38	61.27	62.86	60.89	60.19	59.75	59.60	59.46	59.36	
29	60.10	59.95	59.74	60.26	61.08	62.57	60.90	60.19	59.75	59.59		59.36	
30	59.95	59.93	59.74	60.19	61.07	62.72	60.92	60.20	59.75	59.59		59.35	
31		59.96		60.13	60.94		60.82		59.74	59.59		59.35	
MEAN	60.07	59.90	60.01	60.05	60.40	61.76	61.52	60.36	59.90	59.66	59.53	59.40	
MAX	61.74	60.16	60.67	60.73	61.63	64.30	63.21	60.73	60.19	59.73	59.60	59.46	64.30
MIN	59.51	59.78	59.74	59.70	59.89	60.59	60.70	60.19	59.74	59.59	59.46	59.35	59.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 65.08 M (MSL), AT 19.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 59.00 M (MSL), RIVER BED 57.87 M (MSL)
LEFT BANK ELEVATION 69.67 M (MSL)
RIGHT BANK ELEVATION 70.50 M (MSL), DRAINAGE AREA 12658 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.10	12.40	12.70	7.90	20.60	63.20	437.50	58.40	25.50	7.90	3.80	2.60	
2	3.10	11.20	10.90	7.90	19.40	53.90	380.70	52.50	24.00	7.90	3.90	2.50	
3	3.40	10.90	10.30	7.30	18.60	48.30	307.90	49.70	22.00	7.60	4.00	2.50	
4	3.30	10.30	10.00	7.30	17.00	56.00	321.20	46.20	20.20	7.60	4.00	2.50	
5	3.10	9.70	10.00	7.00	16.60	56.00	306.00	42.70	19.80	7.60	3.90	2.40	
6	3.10	10.00	9.70	7.00	18.20	52.50	236.40	39.60	20.20	7.60	3.90	2.40	
7	3.20	17.40	15.40	7.00	16.60	56.80	186.60	38.40	19.00	7.30	3.80	2.30	
8	4.30	17.80	27.50	7.00	14.60	86.00	150.90	36.60	17.00	7.30	3.70	2.30	
9	3.90	20.60	25.00	8.20	14.60	239.80	132.60	35.50	16.20	7.30	3.60	2.30	
10	3.50	17.00	26.00	8.80	17.80	776.00	121.90	34.50	15.40	7.30	3.50	2.30	
11	3.40	13.00	23.50	9.40	17.80	655.00	124.20	33.50	14.20	7.00	3.40	2.30	
12	3.30	11.50	26.50	21.50	16.20	389.40	186.60	33.50	13.80	6.70	3.40	2.20	
13	3.20	10.30	53.90	48.30	15.00	321.20	253.60	33.00	13.00	6.40	3.30	2.10	
14	3.30	9.40	46.90	36.60	17.00	231.40	181.00	32.50	12.70	6.10	3.30	2.00	
15	6.10	10.60	43.40	28.50	14.20	162.80	153.50	31.50	12.40	6.10	3.20	2.00	
16	6.70	14.20	34.00	23.50	12.70	125.40	129.00	34.50	11.80	5.80	3.20	2.00	
17	6.70	16.20	26.00	19.80	15.00	121.90	116.40	33.00	11.50	5.20	3.10	1.90	
18	115.30	24.00	21.00	17.40	28.50	115.30	103.20	31.00	11.20	4.90	3.10	1.90	
19	92.00	17.40	18.60	15.40	33.00	104.30	93.00	32.00	10.90	4.60	3.10	1.80	
20	119.70	14.60	16.20	13.80	35.00	110.90	82.00	32.00	10.60	4.60	3.00	1.80	
21	165.60	11.80	14.20	13.00	62.40	125.40	71.20	30.50	10.30	4.30	2.90	1.80	
22	118.60	11.20	13.00	13.40	64.80	126.60	64.80	29.50	10.00	4.30	2.90	1.70	
23	69.60	10.60	12.10	58.40	75.60	123.00	60.00	30.50	9.70	4.30	2.80	1.70	
24	56.80	11.20	11.20	54.60	70.40	106.50	56.00	30.50	9.40	4.30	2.80	1.70	
25	39.60	10.60	10.30	31.50	69.60	135.00	59.20	29.00	9.10	4.00	2.70	1.70	
26	29.00	10.60	9.40	26.00	100.00	225.00	70.40	27.00	8.80	4.00	2.70	1.70	
27	25.00	11.20	9.10	40.80	150.90	337.00	79.20	26.50	8.50	4.00	2.60	1.60	
28	26.00	15.00	9.10	35.00	108.70	357.60	71.20	25.50	8.50	4.00	2.60	1.60	
29	21.00	15.00	8.20	29.00	89.00	300.30	72.00	25.50	8.50	3.90		1.60	
30	15.00	14.20	8.20	25.50	88.00	329.00	73.80	26.00	8.50	3.90		1.50	
31		15.40		22.50	75.60		65.60		8.20	3.90		1.50	
TOTAL	959.90	415.30	572.30	659.30	1333.40	5991.50	4747.60	1041.10	420.90	177.70	92.20	62.20	16473.40 CMSDAY
MEAN	32.00	13.40	19.08	21.27	43.01	199.72	153.15	34.70	13.58	5.73	3.29	2.01	45.13 CMS
MAX	165.60	24.00	53.90	58.40	150.90	776.00	437.50	58.40	25.50	7.90	4.00	2.60	776.00 CMS
MIN	3.10	9.40	8.20	7.00	12.70	48.30	56.00	25.50	8.20	3.90	2.60	1.50	1.50 CMS
RUNOFF	82.935	35.882	49.447	56.964	115.206	517.666	410.193	89.951	36.366	15.353	7.966	5.374	1423.302 MCM

MOMENTARY PEAK 1092.40 CMS, AT 65.08 M (MSL), AT 19.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 3.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 86.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

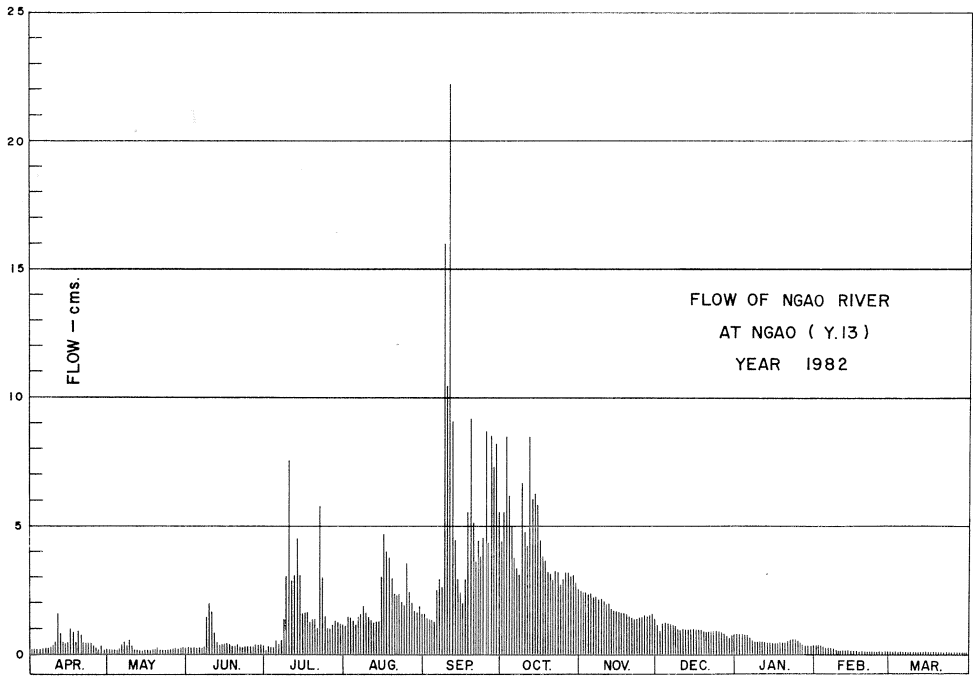
NGAO RIVER AT NGAO, LAMPANG (Y.13)

LOCATION	LAT. 18°-45'-06" N., LONG. 99°-58'-53" E., ON LEFT BANK DOWNSTREAM AT THE BRIDGE ON HIGHWAY, AMPHOE NGAO, LAMPANG.
DRAINAGE AREA	382 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+266.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 5.00 METERS UPSTREAM FROM THE GAGE SITE.
ELEVATION	+273.180 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1957-1958, 1969, 1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1957-1958, 1969, 1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACK WATER EFFECT.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY THE WEIR BUILT BY THE LOCAL RESIDENTS. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	266.42	266.40	266.43	266.40	266.61	266.70	266.93	266.80	266.63	266.55	266.46	266.37	
2	266.42	266.40	266.43	266.44	266.67	266.67	266.99	266.79	266.58	266.55	266.46	266.37	
3	266.42	266.40	266.42	266.44	266.67	266.66	267.08	266.79	266.65	266.55	266.45	266.37	
4	266.42	266.40	266.42	266.43	266.66	266.66	267.00	266.78	266.65	266.55	266.45	266.36	
5	266.42	266.40	266.42	266.51	266.63	266.65	266.96	266.78	266.65	266.55	266.43	266.36	
6	266.44	266.47	266.42	266.50	266.68	266.80	266.90	266.77	266.64	266.53	266.43	266.36	
7	266.44	266.50	266.42	266.52	266.70	266.83	266.87	266.77	266.64	266.51	266.43	266.34	
8	266.44	266.46	266.66	266.63	266.73	266.81	266.85	266.76	266.62	266.50	266.42	266.34	
9	266.47	266.52	266.74	266.90	266.70	267.24	267.02	266.76	266.60	266.49	266.40	266.34	
10	266.50	266.48	266.70	267.05	266.68	267.13	266.95	266.75	266.60	266.50	266.39	266.34	
11	266.70	266.40	266.54	266.83	266.66	267.33	266.92	266.74	266.60	266.50	266.39	266.34	
12	266.58	266.40	266.50	266.84	266.64	267.10	267.08	266.74	266.60	266.50	266.38	266.34	
13	266.50	266.40	266.46	266.93	266.64	266.94	267.00	266.72	266.60	266.49	266.38	266.35	
14	266.50	266.40	266.46	266.84	266.64	266.85	267.02	266.71	266.60	266.49	266.38	266.35	
15	266.50	266.40	266.46	266.70	266.86	266.79	266.99	266.71	266.60	266.49	266.38	266.35	
16	266.60	266.40	266.46	266.70	266.94	266.75	266.94	266.70	266.60	266.49	266.38	266.35	
17	266.58	266.40	266.46	266.70	266.91	266.83	266.90	266.70	266.60	266.49	266.37	266.35	
18	266.50	266.40	266.44	266.66	266.90	267.02	266.89	266.70	266.60	266.50	266.37	266.35	
19	266.58	266.40	266.44	266.66	266.86	267.10	266.86	266.69	266.58	266.50	266.37	266.34	
20	266.58	266.42	266.46	266.66	266.80	266.98	266.85	266.68	266.58	266.50	266.37	266.34	
21	266.50	266.40	266.44	266.62	266.78	266.89	266.83	266.67	266.58	266.51	266.36	266.34	
22	266.49	266.40	266.44	266.99	266.78	266.93	266.86	266.66	266.58	266.52	266.36	266.34	
23	266.49	266.40	266.44	266.84	266.77	266.90	266.85	266.67	266.58	266.52	266.36	266.34	
24	266.49	266.40	266.44	266.70	266.74	266.94	266.82	266.67	266.59	266.52	266.36	266.34	
25	266.46	266.40	266.44	266.63	266.88	267.09	266.83	266.67	266.59	266.52	266.36	266.34	
26	266.43	266.42	266.44	266.60	266.80	266.93	266.85	266.68	266.57	266.49	266.36	266.35	
27	266.40	266.42	266.46	266.62	266.76	267.08	266.85	266.68	266.56	266.47	266.36	266.35	
28	266.42	266.42	266.46	266.65	266.72	267.04	266.84	266.69	266.54	266.46	266.36	266.35	
29	266.40	266.43	266.46	266.64	266.70	267.07	266.84	266.68	266.53	266.45		266.36	
30	266.40	266.44	266.46	266.63	266.73	267.00	266.82	266.66	266.54	266.45		266.36	
31		266.44		266.63	266.69		266.80		266.55	266.45		266.35	
MEAN	266.48	266.42	266.47	266.67	266.74	266.92	266.91	266.72	266.59	266.50	266.39	266.35	
MAX	266.70	266.52	266.74	267.05	266.94	267.33	267.08	266.80	266.65	266.55	266.46	266.37	267.33
MIN	266.40	266.40	266.42	266.40	266.61	266.65	266.80	266.66	266.53	266.45	266.36	266.34	266.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 267.49 M (MSL), AT 6.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 266.30 M (MSL), RIVER BED 266.26 M (MSL)
LEFT BANK ELEVATION 275.53 M (MSL)
RIGHT BANK ELEVATION 275.55 M (MSL), DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.15	0.25	0.15	1.01	1.60	4.46	2.50	1.14	0.72	0.35	0.11	
2	0.22	0.15	0.25	0.29	1.40	1.40	5.78	2.41	0.86	0.72	0.35	0.11	
3	0.22	0.15	0.22	0.29	1.40	1.34	8.48	2.41	1.27	0.72	0.32	0.11	
4	0.22	0.15	0.22	0.25	1.34	1.34	6.00	2.32	1.27	0.72	0.32	0.09	
5	0.22	0.15	0.22	0.54	1.14	1.27	5.12	2.32	1.27	0.72	0.25	0.09	
6	0.29	0.39	0.22	0.49	1.47	2.50	3.80	2.23	1.21	0.63	0.25	0.09	
7	0.29	0.49	0.22	0.58	1.60	2.89	3.41	2.23	1.21	0.54	0.25	0.06	
8	0.29	0.35	1.34	1.14	1.87	2.63	3.15	2.14	1.08	0.49	0.22	0.06	
9	0.39	0.58	1.96	3.80	1.60	15.94	6.62	2.14	0.95	0.46	0.15	0.06	
10	0.49	0.42	1.60	7.55	1.47	10.42	4.90	2.05	0.95	0.49	0.13	0.06	
11	1.60	0.15	0.67	2.89	1.34	22.12	4.24	1.96	0.95	0.49	0.13	0.06	
12	0.86	0.15	0.49	3.02	1.21	9.10	8.48	1.96	0.95	0.49	0.12	0.06	
13	0.49	0.15	0.35	4.46	1.21	4.68	6.00	1.78	0.95	0.46	0.12	0.07	
14	0.49	0.15	0.35	3.02	1.21	3.15	6.62	1.69	0.95	0.46	0.12	0.07	
15	0.49	0.15	0.35	1.60	3.28	2.41	5.78	1.69	0.95	0.46	0.12	0.07	
16	0.95	0.15	0.35	1.60	4.68	2.05	4.68	1.60	0.95	0.46	0.12	0.07	
17	0.86	0.15	0.35	1.60	4.02	2.89	3.80	1.60	0.95	0.46	0.11	0.07	
18	0.49	0.15	0.29	1.34	3.80	6.62	3.67	1.60	0.95	0.49	0.11	0.07	
19	0.86	0.15	0.29	1.34	3.28	9.10	3.28	1.53	0.86	0.49	0.11	0.06	
20	0.86	0.22	0.35	1.34	2.50	5.56	3.15	1.47	0.86	0.49	0.11	0.06	
21	0.49	0.15	0.29	1.08	2.32	3.67	2.89	1.40	0.86	0.54	0.09	0.06	
22	0.46	0.15	0.29	5.78	2.32	4.46	3.28	1.34	0.86	0.58	0.09	0.06	
23	0.46	0.15	0.29	3.02	2.23	3.80	3.15	1.40	0.86	0.58	0.09	0.06	
24	0.46	0.15	0.29	1.60	1.96	4.68	2.76	1.40	0.90	0.58	0.09	0.06	
25	0.35	0.15	0.29	1.14	3.54	8.79	2.89	1.40	0.90	0.58	0.09	0.06	
26	0.25	0.22	0.29	0.95	2.50	4.46	3.15	1.47	0.81	0.46	0.09	0.07	
27	0.15	0.22	0.35	1.08	2.14	8.48	3.15	1.47	0.77	0.39	0.09	0.07	
28	0.22	0.22	0.35	1.27	1.78	7.24	3.02	1.53	0.67	0.35	0.09	0.07	
29	0.15	0.25	0.35	1.21	1.60	8.17	3.02	1.47	0.63	0.32		0.09	
30	0.15	0.29	0.35	1.14	1.87	6.00	2.76	1.34	0.67	0.32		0.09	
31		0.29		1.14	1.53		2.50		0.72	0.32		0.07	
TOTAL	13.94	6.79	13.48	56.70	64.62	168.76	133.99	53.85	29.18	15.98	4.48	2.26	564.03 CMSDAY
MEAN	0.46	0.22	0.45	1.83	2.08	5.63	4.32	1.80	0.94	0.52	0.16	0.07	1.55 CMS
MAX	1.60	0.58	1.96	7.55	4.68	22.12	8.48	2.50	1.27	0.72	0.35	0.11	22.12 CMS
MIN	0.15	0.15	0.22	0.15	1.01	1.27	2.50	1.34	0.63	0.32	0.09	0.06	0.06 CMS
RUNOFF	1.204	0.587	1.165	4.899	5.583	14.581	11.577	4.653	2.521	1.381	0.387	0.195	48.732 MCM

MOMENTARY PEAK 37.90 CMS, AT 267.49 M (MSL), AT 6.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 4.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 99.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

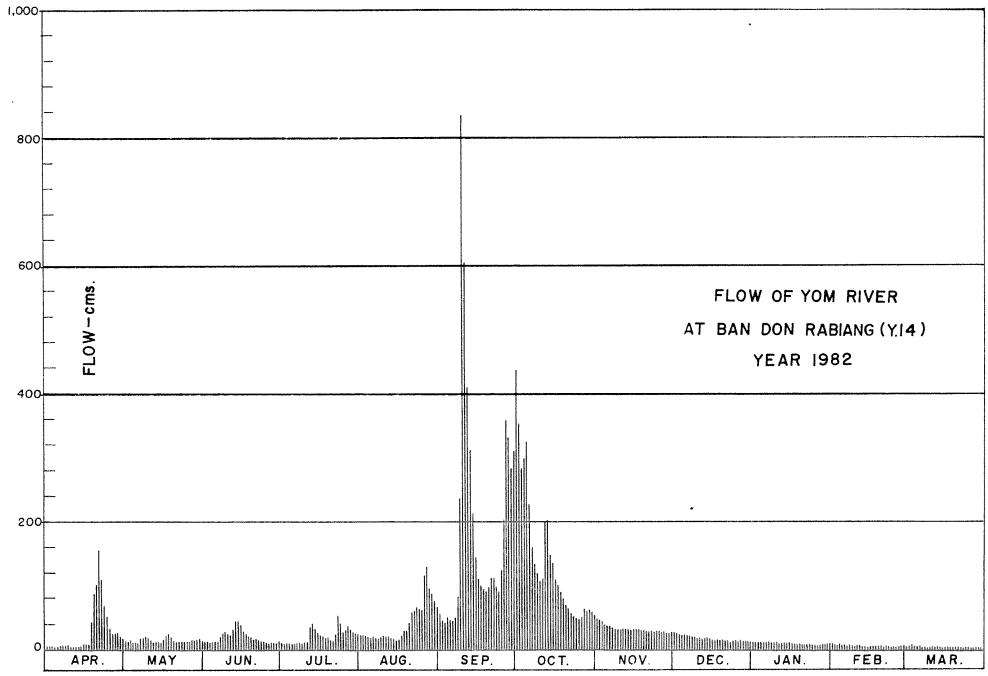
YOM RIVER AT BAN DON RABIANG, SUKHOTHAI (Y.14)

LOCATION	LAT. 17°-35'-42" N., LONG. 99°-43'-08" E., ON LEFT BANK ABOUT 50 METERS FROM SI SATCHANALAI-DEN CHAI HIGHWAY NO. 101 AT GUIDEPOST 44 TH., AMPHOE SI SATCHANALAI, SUKHOTHAI.
DRAINAGE AREA	12,131 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+65.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D. NO.I
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+78.363 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1964 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	65.76	66.02	66.01	65.90	66.17	66.69	69.58	66.62	66.23	65.91	65.81	65.71	
2	65.77	66.00	65.98	65.89	66.15	66.59	69.13	66.57	66.22	65.91	65.82	65.71	
3	65.78	65.99	65.96	65.89	66.12	66.54	68.73	66.53	66.19	65.90	65.82	65.70	
4	65.76	65.97	65.95	65.89	66.09	66.65	68.91	66.48	66.17	65.90	65.82	65.70	
5	65.76	65.95	65.95	65.89	66.10	66.60	68.98	66.46	66.16	65.90	65.81	65.70	
6	65.78	66.00	65.99	65.89	66.12	66.60	68.24	66.43	66.15	65.91	65.81	65.70	
7	65.83	66.15	66.13	65.88	66.09	66.70	67.84	66.40	66.13	65.90	65.80	65.69	
8	65.83	66.16	66.26	65.90	66.04	67.19	67.59	66.39	66.11	65.90	65.79	65.69	
9	65.79	66.15	66.28	65.94	66.07	68.74	67.45	66.38	66.09	65.90	65.78	65.69	
10	65.78	66.08	66.23	65.94	66.10	71.29	67.35	66.37	66.07	65.89	65.77	65.69	
11	65.76	66.03	66.19	65.95	66.09	70.19	67.41	66.36	66.05	65.88	65.77	65.69	
12	65.76	65.99	66.34	66.45	66.07	69.17	68.16	66.36	66.05	65.88	65.76	65.68	
13	65.76	65.97	66.55	66.53	66.08	68.81	68.17	66.35	66.03	65.87	65.76	65.68	
14	65.80	65.96	66.56	66.36	66.07	68.18	67.75	66.36	66.02	65.87	65.76	65.67	
15	65.89	65.99	66.47	66.26	66.04	67.68	67.57	66.34	66.01	65.86	65.76	65.67	
16	65.90	66.04	66.34	66.18	66.03	67.37	67.35	66.39	66.00	65.85	65.76	65.66	
17	65.88	66.20	66.22	66.13	66.10	67.25	67.26	66.35	66.00	65.84	65.75	65.66	
18	66.70	66.19	66.16	66.09	66.39	67.18	67.14	66.33	65.99	65.83	65.75	65.66	
19	67.21	66.09	66.10	66.06	66.35	67.13	67.03	66.33	65.99	65.83	65.74	65.66	
20	67.34	66.04	66.07	66.04	66.52	67.25	66.90	66.33	65.98	65.83	65.74	65.65	
21	67.80	65.99	66.05	66.02	66.76	67.39	66.80	66.31	65.98	65.83	65.73	65.65	
22	67.18	65.98	66.03	66.22	66.82	67.37	66.72	66.30	65.96	65.83	65.73	65.65	
23	66.75	66.00	66.00	66.74	66.89	67.17	66.66	66.31	65.95	65.82	65.73	65.65	
24	66.63	65.99	65.98	66.52	66.84	67.17	66.64	66.31	65.95	65.82	65.73	65.65	
25	66.38	65.98	65.95	66.26	66.83	67.61	66.61	66.28	65.94	65.82	65.73	65.65	
26	66.24	65.98	65.94	66.35	67.45	68.30	66.71	66.25	65.94	65.82	65.72	65.64	
27	66.25	66.04	65.94	66.48	67.58	69.17	66.84	66.25	65.94	65.82	65.72	65.64	
28	66.25	66.07	65.92	66.34	67.16	68.99	66.76	66.23	65.93	65.82	65.73	65.64	
29	66.13	66.04	65.91	66.27	67.07	68.74	66.85	66.23	65.93	65.81		65.63	
30	66.06	66.08	65.90	66.23	66.99	68.97	66.81	66.26	65.92	65.81		65.63	
31		66.07		66.19	66.85		66.69		65.92	65.81		65.63	
MEAN	66.18	66.04	66.11	66.15	66.45	67.82	67.50	66.36	66.03	65.86	65.76	65.67	
MAX	67.80	66.20	66.56	66.74	67.58	71.29	69.58	66.62	66.23	65.91	65.82	65.71	71.29
MIN	65.76	65.95	65.90	65.88	66.03	66.54	66.61	66.23	65.92	65.81	65.72	65.63	65.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 72.19 M (MSL), AT 17.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 65.10 M (MSL), RIVER BED 63.68 M (MSL)
LEFT BANK ELEVATION 78.18 M (MSL)
RIGHT BANK ELEVATION 77.38 M (MSL), DRAINAGE AREA 12131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.80	12.80	12.40	8.00	19.50	50.30	434.00	45.40	22.50	8.40	5.30	2.30	
2	4.10	12.00	11.20	7.70	18.50	43.30	349.40	41.90	22.00	8.40	5.60	2.30	
3	4.40	11.60	10.40	7.70	17.00	39.80	282.50	39.10	20.50	8.00	5.60	2.00	
4	3.80	10.80	10.00	7.70	15.60	47.50	310.70	35.80	19.50	8.00	5.60	2.00	
5	3.80	10.00	10.00	7.70	16.00	44.00	322.60	34.60	19.00	8.00	5.30	2.00	
6	4.40	12.00	11.60	7.70	17.00	44.00	211.60	32.80	18.50	8.40	5.30	2.00	
7	5.90	18.50	17.50	7.40	15.60	51.00	159.80	31.00	17.50	8.00	5.00	1.90	
8	5.90	19.00	24.00	8.00	13.60	92.10	130.90	30.50	16.50	8.00	4.70	1.90	
9	4.70	18.50	25.00	9.60	14.80	284.00	116.00	30.00	15.60	8.00	4.40	1.90	
10	4.40	15.20	22.50	9.60	16.00	833.40	106.50	29.50	14.80	7.70	4.10	1.90	
11	3.80	13.20	20.50	10.00	15.60	567.70	112.00	29.00	14.00	7.40	4.10	1.90	
12	3.80	11.60	28.00	34.00	14.80	356.60	200.80	29.00	14.00	7.40	3.80	1.80	
13	3.80	10.80	40.50	39.10	15.20	294.60	202.10	28.50	13.20	7.10	3.80	1.80	
14	5.00	10.40	41.20	29.00	14.80	203.40	149.00	29.00	12.80	7.10	3.80	1.70	
15	7.70	11.60	35.20	24.00	13.60	140.80	128.70	28.00	12.40	6.80	3.80	1.70	
16	8.00	13.60	28.00	20.00	13.20	108.30	106.50	30.50	12.00	6.50	3.80	1.60	
17	7.40	21.00	22.00	17.50	16.00	97.50	98.40	28.50	12.00	6.20	3.50	1.60	
18	51.00	20.50	19.00	15.60	30.50	91.20	87.60	27.50	11.60	5.90	3.50	1.60	
19	93.90	15.60	16.00	14.40	28.50	86.70	77.70	27.50	11.60	5.90	3.20	1.60	
20	105.60	13.60	14.80	13.60	38.40	97.50	66.00	27.50	11.20	5.90	3.20	1.50	
21	155.00	11.60	14.00	12.80	55.20	110.10	58.00	26.50	11.20	5.90	2.90	1.50	
22	91.20	11.20	13.20	22.00	59.60	108.30	52.40	26.00	10.40	5.90	2.90	1.50	
23	54.50	12.00	12.00	53.80	65.20	90.30	48.20	26.50	10.00	5.60	2.90	1.50	
24	46.10	11.60	11.20	38.40	61.20	90.30	46.80	26.50	10.00	5.60	2.90	1.50	
25	30.00	11.20	10.00	24.00	60.40	133.10	44.70	25.00	9.60	5.60	2.90	1.50	
26	23.00	11.20	9.60	28.50	116.00	220.00	51.70	23.50	9.60	5.60	2.60	1.40	
27	23.50	13.60	9.60	35.80	129.80	356.60	61.20	23.50	9.60	5.60	2.60	1.40	
28	23.50	14.80	8.80	28.00	89.40	324.30	55.20	22.50	9.20	5.60	2.90	1.40	
29	17.50	13.60	8.40	24.50	81.30	284.00	62.00	22.50	9.20	5.30		1.30	
30	14.40	15.20	8.00	22.50	74.10	320.90	58.80	24.00	8.80	5.30		1.30	
31		14.80		20.50	62.00		50.30		8.80	5.30		1.30	
TOTAL	813.90	423.10	524.60	609.10	1218.40	5611.60	4242.10	882.10	417.60	208.40	110.00	52.60	15113.50 CMSDAY
MEAN	27.13	13.65	17.49	19.65	39.30	187.05	136.84	29.40	13.47	6.72	3.93	1.70	41.41 CMS
MAX	155.00	21.00	41.20	53.80	129.80	833.40	434.00	45.40	22.50	8.40	5.60	2.30	833.40 CMS
MIN	3.80	10.00	8.00	7.40	13.20	39.80	44.70	22.50	8.80	5.30	2.60	1.30	1.30 CMS
RUNOFF	70.321	36.556	45.325	52.626	105.270	484.842	366.517	76.213	36.081	18.006	9.504	4.545	1305.806 MCM

MOMENTARY PEAK 1077.20 CMS, AT 72.19 M (MSL), AT 17.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 3.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 88.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

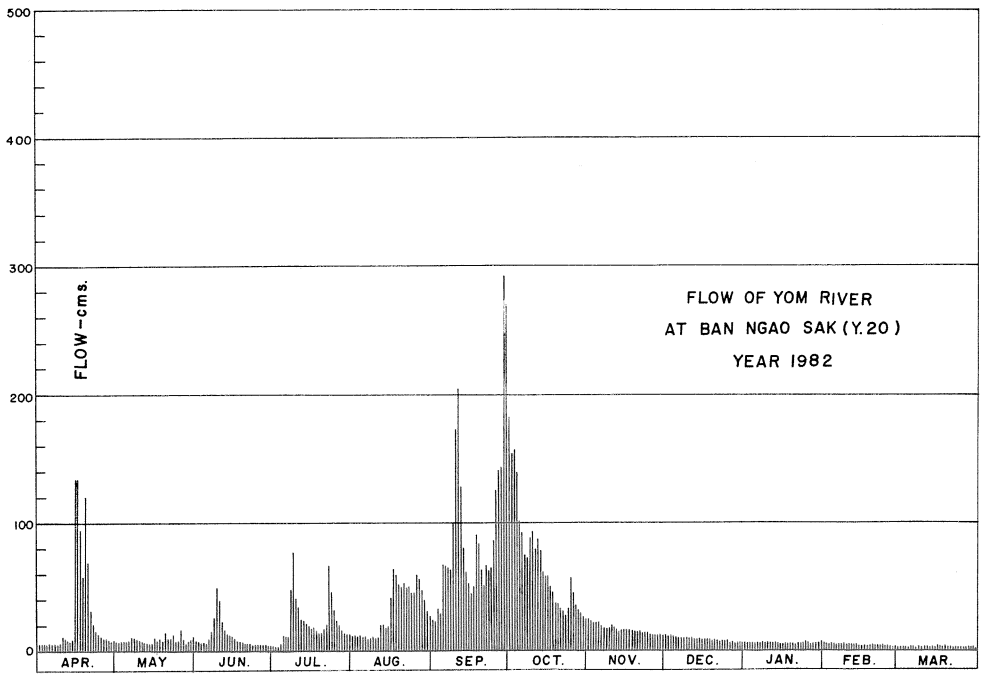
YOM RIVER AT BAN NGAO SAK, PHRAE (Y.20)

LOCATION	LAT. 18°-35'-03" N., LONG. 100°-09'-17" E., ON LEFT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM SOP NGAO, TAMBON TAO POON, AMPHOE SONG, PHRAE.
DRAINAGE AREA	5,410 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+180.976 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+193.552 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 151 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	181.60	181.66	181.71	181.54	181.83	182.07	184.01	182.07	181.81	181.62	181.60	181.49	
2	181.59	181.65	181.68	181.53	181.81	182.06	183.91	182.05	181.80	181.62	181.59	181.49	
3	181.59	181.64	181.66	181.53	181.79	182.24	183.94	182.03	181.78	181.62	181.59	181.49	
4	181.57	181.70	181.64	181.53	181.78	182.19	183.54	182.06	181.79	181.62	181.58	181.49	
5	181.55	181.65	181.64	181.85	181.79	182.77	183.19	182.03	181.79	181.63	181.57	181.49	
6	181.55	181.69	181.64	181.81	181.79	182.76	183.04	181.98	181.77	181.63	181.57	181.49	
7	181.56	181.80	181.84	181.76	181.76	182.73	182.88	181.96	181.77	181.63	181.56	181.49	
8	181.58	181.73	182.06	182.52	181.77	182.73	182.85	181.96	181.75	181.62	181.56	181.49	
9	181.63	181.72	182.53	182.91	181.79	183.31	183.05	181.96	181.74	181.63	181.56	181.48	
10	181.80	181.70	182.29	182.36	181.78	184.06	183.11	181.97	181.73	181.63	181.56	181.48	
11	181.76	181.67	182.04	182.21	181.78	184.31	182.95	181.96	181.73	181.62	181.56	181.48	
12	181.74	181.64	181.92	182.11	182.02	183.55	183.04	181.93	181.73	181.61	181.55	181.48	
13	181.70	181.62	181.84	182.12	181.99	182.98	182.94	181.91	181.72	181.61	181.55	181.47	
14	181.70	181.61	181.79	182.03	181.96	182.69	182.69	181.91	181.72	181.61	181.55	181.48	
15	183.62	181.61	181.77	181.98	181.99	182.54	182.64	181.91	181.72	181.60	181.54	181.47	
16	183.62	181.76	181.76	181.94	182.41	182.43	182.64	181.92	181.72	181.60	181.53	181.46	
17	182.95	181.68	181.70	181.96	182.73	182.56	182.50	181.92	181.71	181.61	181.52	181.46	
18	182.64	181.72	181.67	181.89	182.63	183.09	182.40	181.91	181.70	181.61	181.52	181.46	
19	183.42	181.67	181.64	181.88	182.54	182.97	182.32	181.89	181.70	181.60	181.52	181.46	
20	182.44	181.90	181.63	181.86	182.52	182.71	182.27	181.89	181.69	181.60	181.52	181.46	
21	182.18	181.76	181.62	181.96	182.59	182.55	182.22	181.88	181.68	181.60	181.52	181.45	
22	182.00	181.68	181.60	182.02	182.51	182.77	182.17	181.87	181.67	181.60	181.52	181.44	
23	181.90	181.82	181.58	182.81	182.51	182.71	182.14	181.87	181.68	181.61	181.52	181.44	
24	181.84	181.70	181.57	182.39	182.44	182.78	182.20	181.86	181.68	181.62	181.51	181.44	
25	181.80	181.67	181.56	182.15	182.46	183.24	182.61	181.84	181.67	181.67	181.51	181.43	
26	181.76	181.94	181.56	182.06	182.65	183.63	182.41	181.83	181.66	181.66	181.50	181.42	
27	181.74	181.72	181.55	181.95	182.59	183.75	182.26	181.83	181.64	181.63	181.50	181.42	
28	181.71	181.67	181.55	181.91	182.45	183.74	182.20	181.83	181.63	181.63	181.50	181.42	
29	181.68	181.70	181.55	181.87	182.31	185.09	182.14	181.82	181.63	181.61		181.43	
30	181.65	181.77	181.54	181.86	182.23	184.69	182.12	181.81	181.64	181.60		181.43	
31		181.77		181.83	182.13		182.08		181.63	181.60		181.43	
MEAN	182.00	181.71	181.74	182.00	182.17	183.06	182.72	181.92	181.71	181.62	181.54	181.46	
MAX	183.62	181.94	182.53	182.91	182.73	185.09	184.01	182.07	181.81	181.67	181.60	181.49	185.09
MIN	181.55	181.61	181.54	181.53	181.76	182.06	182.08	181.81	181.63	181.60	181.50	181.42	181.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 185.40 M (MSL), AT 15.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 180.98 M (MSL), RIVER BED 180.41 M (MSL)
LEFT BANK ELEVATION 193.54 M (MSL)
RIGHT BANK ELEVATION 193.72 M (MSL), DRAINAGE AREA 5410 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.00	6.50	7.82	3.80	11.93	23.41	172.50	23.41	11.11	5.50	5.00	2.80	
2	4.80	6.25	7.00	3.60	11.11	22.88	162.50	22.35	10.70	5.50	4.80	2.80	
3	4.80	6.00	6.50	3.60	10.38	32.46	165.50	21.29	10.06	5.50	4.80	2.80	
4	4.40	7.50	6.00	3.60	10.06	29.77	127.60	22.88	10.38	5.50	4.60	2.80	
5	4.00	6.25	6.00	12.75	10.38	66.25	98.20	21.29	10.38	5.75	4.40	2.80	
6	4.00	7.25	6.00	11.11	10.38	65.50	86.50	18.72	9.74	5.75	4.40	2.80	
7	4.20	10.70	12.34	9.42	9.42	63.25	74.50	17.74	9.74	5.75	4.20	2.80	
8	4.60	8.46	22.88	49.30	9.74	63.25	72.25	17.74	9.10	5.50	4.20	2.80	
9	5.75	8.14	49.95	76.75	10.38	107.85	87.25	17.74	8.78	5.75	4.20	2.60	
10	10.70	7.50	35.16	39.30	10.06	177.50	91.80	18.23	8.46	5.75	4.20	2.60	
11	9.42	6.75	21.82	30.84	10.06	203.10	79.75	17.74	8.46	5.50	4.20	2.60	
12	8.78	6.00	15.78	25.53	20.76	128.50	86.50	16.27	8.46	5.25	4.00	2.60	
13	7.50	5.50	12.34	26.06	19.21	82.00	79.00	15.29	8.14	5.25	4.00	2.40	
14	7.50	5.25	10.38	21.29	17.74	60.35	60.35	15.29	8.14	5.25	4.00	2.60	
15	134.80	5.25	9.74	18.72	19.21	50.60	57.10	15.29	8.14	5.00	3.80	2.40	
16	134.80	9.42	9.42	16.76	42.33	43.59	57.10	15.78	8.14	5.00	3.60	2.20	
17	79.75	7.00	7.50	17.74	63.25	51.90	48.00	15.78	7.82	5.25	3.40	2.20	
18	57.10	8.14	6.75	14.39	56.45	90.25	41.70	15.29	7.50	5.25	3.40	2.20	
19	117.20	6.75	6.00	13.98	50.60	81.25	36.90	14.39	7.50	5.00	3.40	2.20	
20	44.22	14.80	5.75	13.16	49.30	61.75	34.08	14.39	7.25	5.00	3.40	2.20	
21	29.24	9.42	5.50	17.74	53.85	51.25	31.38	13.98	7.00	5.00	3.40	2.00	
22	19.70	7.00	5.00	20.76	48.65	66.25	28.71	13.57	6.75	5.00	3.40	1.80	
23	14.80	11.52	4.60	69.25	48.65	61.75	27.12	13.57	7.00	5.25	3.40	1.80	
24	12.34	7.50	4.40	41.10	44.22	67.00	30.30	13.16	7.00	5.50	3.20	1.80	
25	10.70	6.75	4.20	27.65	45.48	102.20	55.15	12.34	6.75	6.75	3.20	1.60	
26	9.42	16.76	4.20	22.88	57.75	135.70	42.33	11.93	6.50	6.50	3.00	1.40	
27	8.78	8.14	4.00	17.25	53.85	146.75	33.54	11.93	6.00	5.75	3.00	1.40	
28	7.82	6.75	4.00	15.29	44.85	145.80	30.30	11.93	5.75	5.75	3.00	1.40	
29	7.00	7.50	4.00	13.57	36.30	292.80	27.12	11.52	5.75	5.25		1.60	
30	6.25	9.74	3.80	13.16	31.92	245.35	26.06	11.11	6.00	5.00		1.60	
31		9.74		11.93	26.59		23.94		5.75	5.00		1.60	
TOTAL	779.37	250.23	308.83	682.28	944.86	2820.26	2075.03	481.94	248.25	168.75	107.60	69.20	8936.60 CMSDAY
MEAN	25.98	8.07	10.29	22.01	30.48	94.01	66.94	16.06	8.01	5.44	3.84	2.23	24.48 CMS
MAX	134.80	16.76	49.95	76.75	63.25	292.80	172.50	23.41	11.11	6.75	5.00	2.80	292.80 CMS
MIN	4.00	5.25	3.80	3.60	9.42	22.88	23.94	11.11	5.75	5.00	3.00	1.40	1.40 CMS
RUNOFF	67.338	21.620	26.683	58.949	81.636	243.670	179.283	41.640	21.449	14.580	9.297	5.979	772.122 MCM

MOMENTARY PEAK 330.00 CMS, AT 185.40 M (MSL), AT 15.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD 4.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

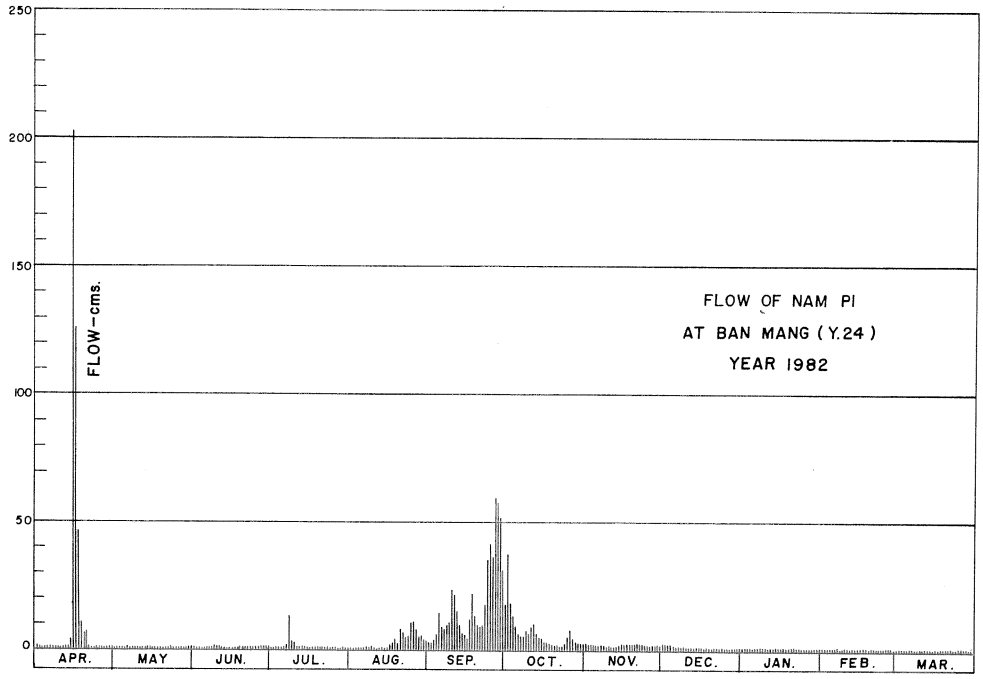
NAM PI AT BAN MANG, PHAYAO (Y.24)

LOCATION	LAT. 18°-53'-04" N., LONG. 100°-17'-24" E., ON RIGHT BANK UPSTREAM OF THE BRIDGE OF PONG SANUK-CHIANG MUAN ROAD, BAN MANG, AMPHOE CHIANG MUAN, PHAYAO.
DRAINAGE AREA	597 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.035 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.01	1.03	1.12	1.07	1.16	1.40	1.79	1.35	1.32	1.10	1.04	0.84	
2	1.01	1.07	1.10	1.08	1.16	1.40	2.09	1.33	1.31	1.12	1.04	0.84	
3	1.00	1.06	1.10	1.08	1.16	1.46	1.80	1.33	1.28	1.12	1.04	0.84	
4	1.00	1.07	1.10	1.08	1.15	1.53	1.67	1.34	1.30	1.10	1.04	0.84	
5	1.01	1.08	1.10	1.18	1.15	1.77	1.59	1.34	1.28	1.10	1.04	0.84	
6	1.01	1.08	1.10	1.14	1.15	1.62	1.54	1.33	1.26	1.10	1.04	0.84	
7	1.01	1.10	1.12	1.32	1.20	1.60	1.50	1.33	1.24	1.08	1.04	0.84	
8	1.13	1.09	1.25	1.72	1.22	1.64	1.48	1.32	1.24	1.08	0.96	0.84	
9	1.14	1.08	1.28	1.42	1.20	1.68	1.58	1.30	1.24	1.08	0.90	0.83	
10	1.10	1.06	1.24	1.36	1.20	1.90	1.52	1.33	1.24	1.08	0.86	0.82	
11	1.08	1.07	1.20	1.21	1.18	1.86	1.62	1.33	1.22	1.08	0.86	0.82	
12	1.06	1.05	1.18	1.19	1.19	1.74	1.68	1.32	1.19	1.08	0.85	0.82	
13	1.05	1.04	1.18	1.15	1.19	1.63	1.51	1.32	1.16	1.08	0.85	0.82	
14	1.03	1.05	1.18	1.14	1.20	1.53	1.47	1.30	1.14	1.08	0.85	0.82	
15	3.15	1.04	1.17	1.14	1.22	1.51	1.43	1.38	1.12	1.06	0.85	0.82	
16	2.72	1.04	1.16	1.16	1.37	1.47	1.41	1.36	1.12	1.06	0.85	0.82	
17	1.89	1.03	1.14	1.15	1.41	1.74	1.38	1.37	1.12	1.06	0.85	0.82	
18	1.62	1.05	1.14	1.13	1.47	1.87	1.38	1.36	1.12	1.06	0.85	0.82	
19	1.52	1.07	1.11	1.12	1.39	1.73	1.36	1.36	1.12	1.04	0.85	0.82	
20	1.58	1.05	1.10	1.12	1.38	1.65	1.36	1.36	1.12	1.04	0.85	0.82	
21	1.22	1.05	1.08	1.16	1.59	1.62	1.35	1.36	1.12	1.06	0.85	0.82	
22	1.19	1.04	1.08	1.18	1.54	1.66	1.34	1.35	1.12	1.06	0.85	0.82	
23	1.14	1.04	1.10	1.27	1.50	1.85	1.33	1.35	1.12	1.08	0.85	0.82	
24	1.12	1.05	1.10	1.24	1.52	2.09	1.36	1.34	1.12	1.08	0.84	0.82	
25	1.12	1.04	1.10	1.22	1.67	2.13	1.50	1.33	1.12	1.06	0.84	0.82	
26	1.10	1.07	1.08	1.19	1.68	2.07	1.58	1.32	1.12	1.06	0.84	0.82	
27	1.07	1.06	1.07	1.16	1.60	2.31	1.43	1.32	1.12	1.06	0.84	0.82	
28	1.06	1.09	1.08	1.16	1.50	2.28	1.40	1.32	1.12	1.06	0.84	0.82	
29	1.06	1.10	1.08	1.16	1.50	2.20	1.38	1.32	1.12	1.06		0.82	
30	1.04	1.13	1.07	1.14	1.46	1.96	1.37	1.32	1.10	1.06		0.82	
31		1.13		1.14	1.40		1.36		1.10	1.04		0.82	
MEAN	1.27	1.06	1.13	1.19	1.35	1.76	1.50	1.34	1.17	1.07	0.90	0.83	
MAX	3.15	1.13	1.28	1.72	1.68	2.31	2.09	1.38	1.32	1.12	1.04	0.84	3.15
MIN	1.00	1.03	1.07	1.07	1.15	1.40	1.33	1.30	1.10	1.04	0.84	0.82	0.82

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.21 M (A.D), AT 9.00 HOURS, ON APR 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.04 M (A.D)
LEFT BANK ELEVATION 8.30 M (A.D)
RIGHT BANK ELEVATION 8.88 M (A.D), DRAINAGE AREA 597 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.46	0.64	0.54	0.72	2.60	15.92	1.90	1.48	0.60	0.48	0.08	
2	0.42	0.54	0.60	0.56	0.72	2.60	37.56	1.62	1.34	0.64	0.48	0.08	
3	0.40	0.52	0.60	0.56	0.72	3.92	16.40	1.62	1.12	0.64	0.48	0.08	
4	0.40	0.54	0.60	0.56	0.70	5.70	10.46	1.76	1.20	0.60	0.48	0.08	
5	0.42	0.56	0.60	0.76	0.70	14.96	7.50	1.76	1.12	0.60	0.48	0.08	
6	0.42	0.56	0.60	0.68	0.70	8.56	6.00	1.62	1.04	0.60	0.48	0.08	
7	0.42	0.60	0.64	1.48	0.80	7.80	4.80	1.62	0.96	0.56	0.48	0.08	
8	0.66	0.58	1.00	12.56	0.88	9.32	4.36	1.48	0.96	0.56	0.32	0.08	
9	0.68	0.56	1.12	3.04	0.80	10.84	7.20	1.20	0.96	0.56	0.20	0.06	
10	0.60	0.52	0.96	2.04	0.80	22.60	5.40	1.62	0.96	0.56	0.12	0.04	
11	0.56	0.54	0.80	0.84	0.76	20.12	8.56	1.62	0.88	0.56	0.12	0.04	
12	0.52	0.50	0.76	0.78	0.78	13.52	10.84	1.48	0.78	0.56	0.10	0.04	
13	0.50	0.48	0.76	0.70	0.78	8.94	5.10	1.48	0.72	0.56	0.10	0.04	
14	0.46	0.50	0.76	0.68	0.80	5.70	4.14	1.20	0.68	0.56	0.10	0.04	
15	203.00	0.48	0.74	0.68	0.88	5.10	3.26	2.32	0.64	0.52	0.10	0.04	
16	109.20	0.48	0.72	0.72	2.18	4.14	2.82	2.04	0.64	0.52	0.10	0.04	
17	21.98	0.46	0.68	0.70	2.82	13.52	2.32	2.18	0.64	0.52	0.10	0.04	
18	8.56	0.50	0.68	0.66	4.14	20.74	2.32	2.04	0.64	0.52	0.10	0.04	
19	5.40	0.54	0.62	0.64	2.46	13.04	2.04	2.04	0.64	0.48	0.10	0.04	
20	7.20	0.50	0.60	0.64	2.32	9.70	2.04	2.04	0.64	0.48	0.10	0.04	
21	0.88	0.50	0.56	0.72	7.50	8.56	1.90	2.04	0.64	0.52	0.10	0.04	
22	0.78	0.48	0.56	0.76	6.00	10.08	1.76	1.90	0.64	0.52	0.10	0.04	
23	0.68	0.48	0.60	1.08	4.80	19.50	1.62	1.90	0.64	0.56	0.10	0.04	
24	0.64	0.50	0.60	0.96	5.40	37.56	2.04	1.76	0.64	0.56	0.08	0.04	
25	0.64	0.48	0.60	0.88	10.46	41.34	4.80	1.62	0.64	0.52	0.08	0.04	
26	0.60	0.54	0.56	0.78	10.84	35.88	7.20	1.48	0.64	0.52	0.08	0.04	
27	0.54	0.52	0.54	0.72	7.80	59.44	3.26	1.48	0.64	0.52	0.08	0.04	
28	0.52	0.58	0.56	0.72	4.80	56.36	2.60	1.48	0.64	0.52	0.08	0.04	
29	0.52	0.60	0.56	0.72	4.80	48.20	2.32	1.48	0.64	0.52		0.04	
30	0.48	0.66	0.54	0.68	3.92	27.04	2.18	1.48	0.60	0.52		0.04	
31		0.66		0.68	2.60		2.04		0.60	0.48		0.04	
TOTAL	368.50	16.42	20.16	38.52	94.38	547.38	190.76	51.26	25.00	16.96	5.72	1.58	1376.64 CMSDAY
MEAN	12.28	0.53	0.67	1.24	3.04	18.25	6.15	1.71	0.81	0.55	0.20	0.05	3.77 CMS
MAX	203.00	0.66	1.12	12.56	10.84	59.44	37.56	2.32	1.48	0.64	0.48	0.08	203.00 CMS
MIN	0.40	0.46	0.54	0.54	0.70	2.60	1.62	1.20	0.60	0.48	0.08	0.04	0.04 CMS
RUNOFF	31.838	1.419	1.742	3.328	8.154	47.294	16.482	4.429	2.160	1.465	0.494	0.137	118.942 MCM

MOMENTARY PEAK 221.10 CMS, AT 3.21 M (A.D), AT 9.00 HOURS, ON APR 15, 1982

RUNOFF YIELD 6.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 370.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

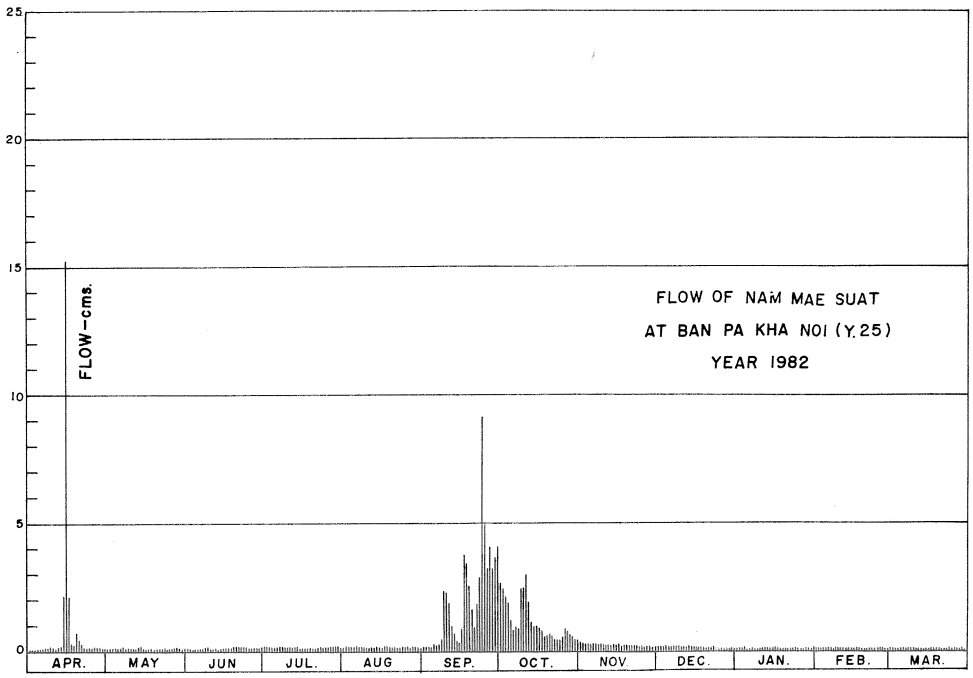
NAM MAE SUAT AT BAN PA KHA NOI, NAN (Y.25)

LOCATION	LAT. 18°-50′-28″ N., LONG. 100°-25′-55″ E., ON LEFT BANK AT THE BRIDGE OF PHAYAO-NAN HIGHWAY AND ABOUT 1.5 KILOMETERS FROM KING AMPHOE BAN LUANG, TAMBON PA KHA LUANG, KING AMPHOE BAN LUANG, NAN.
DRAINAGE AREA	203 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 6 METERS FROM THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.637 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.06	0.06	0.07	0.08	0.08	0.40	0.17	0.10	0.06	0.06	0.05	
2	0.05	0.06	0.06	0.07	0.08	0.08	0.40	0.15	0.10	0.06	0.06	0.05	
3	0.05	0.06	0.05	0.07	0.08	0.08	0.36	0.15	0.09	0.06	0.05	0.05	
4	0.05	0.06	0.05	0.07	0.08	0.09	0.34	0.14	0.09	0.06	0.04	0.05	
5	0.05	0.06	0.05	0.07	0.08	0.14	0.29	0.13	0.09	0.05	0.04	0.05	
6	0.05	0.07	0.05	0.07	0.08	0.13	0.25	0.13	0.08	0.05	0.04	0.05	
7	0.05	0.07	0.07	0.09	0.08	0.13	0.27	0.13	0.08	0.05	0.04	0.05	
8	0.05	0.06	0.08	0.07	0.08	0.16	0.26	0.12	0.08	0.05	0.04	0.05	
9	0.10	0.06	0.11	0.08	0.07	0.38	0.39	0.12	0.08	0.05	0.04	0.05	
10	0.07	0.06	0.08	0.07	0.07	0.37	0.40	0.12	0.08	0.05	0.04	0.05	
11	0.07	0.06	0.07	0.07	0.07	0.34	0.43	0.12	0.08	0.05	0.04	0.04	
12	0.06	0.06	0.07	0.07	0.07	0.28	0.35	0.11	0.07	0.05	0.04	0.04	
13	0.06	0.06	0.07	0.07	0.07	0.22	0.29	0.11	0.07	0.06	0.04	0.04	
14	0.06	0.09	0.07	0.07	0.07	0.17	0.27	0.12	0.07	0.06	0.04	0.04	
15	0.83	0.07	0.07	0.07	0.07	0.15	0.27	0.12	0.07	0.06	0.04	0.04	
16	0.24	0.06	0.07	0.07	0.07	0.29	0.25	0.12	0.07	0.06	0.04	0.04	
17	0.14	0.06	0.07	0.07	0.07	0.47	0.24	0.11	0.07	0.06	0.05	0.04	
18	0.12	0.06	0.07	0.07	0.07	0.43	0.21	0.11	0.07	0.05	0.05	0.04	
19	0.24	0.06	0.08	0.07	0.07	0.38	0.21	0.11	0.07	0.05	0.05	0.04	
20	0.15	0.06	0.10	0.07	0.07	0.31	0.23	0.11	0.07	0.05	0.05	0.03	
21	0.13	0.06	0.09	0.07	0.07	0.26	0.21	0.11	0.07	0.05	0.05	0.03	
22	0.10	0.07	0.09	0.07	0.07	0.38	0.20	0.11	0.07	0.06	0.05	0.03	
23	0.10	0.07	0.09	0.07	0.07	0.42	0.19	0.10	0.07	0.06	0.05	0.03	
24	0.09	0.06	0.08	0.07	0.08	0.66	0.19	0.10	0.06	0.06	0.05	0.03	
25	0.08	0.06	0.06	0.07	0.08	0.53	0.20	0.10	0.06	0.05	0.05	0.03	
26	0.08	0.06	0.06	0.08	0.08	0.44	0.26	0.10	0.06	0.05	0.05	0.03	
27	0.08	0.06	0.07	0.08	0.08	0.50	0.24	0.10	0.06	0.05	0.05	0.03	
28	0.08	0.06	0.07	0.08	0.08	0.44	0.22	0.10	0.06	0.06	0.05	0.03	
29	0.07	0.06	0.07	0.08	0.08	0.48	0.21	0.10	0.06	0.06		0.03	
30	0.06	0.06	0.07	0.08	0.08	0.50	0.19	0.10	0.06	0.06		0.03	
31		0.06		0.08	0.08		0.18		0.06	0.06		0.03	
MEAN	0.11	0.06	0.07	0.07	0.08	0.31	0.27	0.12	0.07	0.06	0.05	0.04	
MAX	0.83	0.09	0.11	0.09	0.08	0.66	0.43	0.17	0.10	0.06	0.06	0.05	0.83
MIN	0.05	0.06	0.05	0.07	0.07	0.08	0.18	0.10	0.06	0.05	0.04	0.03	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.00 M (A.D), AT 6.00 HOURS, ON APR 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)
LEFT BANK ELEVATION 6.31 M (A.D)
RIGHT BANK ELEVATION 6.31 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.09	0.09	0.11	0.12	0.12	2.58	0.37	0.15	0.09	0.09	0.08	
2	0.08	0.09	0.09	0.11	0.12	0.12	2.58	0.31	0.15	0.09	0.09	0.08	
3	0.08	0.09	0.08	0.11	0.12	0.12	2.02	0.31	0.14	0.09	0.08	0.08	
4	0.08	0.09	0.08	0.11	0.12	0.14	1.74	0.27	0.14	0.09	0.06	0.08	
5	0.08	0.09	0.08	0.11	0.12	0.27	1.11	0.24	0.14	0.08	0.06	0.08	
6	0.08	0.11	0.08	0.11	0.12	0.24	0.82	0.24	0.12	0.08	0.06	0.08	
7	0.08	0.11	0.11	0.14	0.12	0.24	0.96	0.24	0.12	0.08	0.06	0.08	
8	0.08	0.09	0.12	0.11	0.12	0.34	0.89	0.21	0.12	0.08	0.06	0.08	
9	0.15	0.09	0.18	0.12	0.11	2.30	2.44	0.21	0.12	0.08	0.06	0.08	
10	0.11	0.09	0.12	0.11	0.11	2.16	2.58	0.21	0.12	0.08	0.06	0.08	
11	0.11	0.09	0.11	0.11	0.11	1.74	3.04	0.21	0.12	0.08	0.06	0.06	
12	0.09	0.09	0.11	0.11	0.11	1.04	1.88	0.18	0.11	0.08	0.06	0.06	
13	0.09	0.09	0.11	0.11	0.11	0.60	1.11	0.18	0.11	0.09	0.06	0.06	
14	0.09	0.14	0.11	0.11	0.11	0.37	0.96	0.21	0.11	0.09	0.06	0.06	
15	15.30	0.11	0.11	0.11	0.11	0.31	0.96	0.21	0.11	0.09	0.06	0.06	
16	0.75	0.09	0.11	0.11	0.11	1.11	0.82	0.21	0.11	0.09	0.06	0.06	
17	0.27	0.09	0.11	0.11	0.11	3.64	0.75	0.18	0.11	0.09	0.08	0.06	
18	0.21	0.09	0.11	0.11	0.11	3.04	0.53	0.18	0.11	0.08	0.08	0.06	
19	0.75	0.09	0.12	0.11	0.11	2.30	0.53	0.18	0.11	0.08	0.08	0.06	
20	0.31	0.09	0.15	0.11	0.11	1.32	0.68	0.18	0.11	0.08	0.08	0.04	
21	0.24	0.09	0.14	0.11	0.11	0.89	0.53	0.18	0.11	0.08	0.08	0.04	
22	0.15	0.11	0.14	0.11	0.11	2.30	0.46	0.18	0.11	0.09	0.08	0.04	
23	0.15	0.11	0.14	0.11	0.11	2.88	0.43	0.15	0.11	0.09	0.08	0.04	
24	0.14	0.09	0.12	0.11	0.12	9.12	0.43	0.15	0.09	0.09	0.08	0.04	
25	0.12	0.09	0.09	0.11	0.12	5.03	0.46	0.15	0.09	0.08	0.08	0.04	
26	0.12	0.09	0.09	0.12	0.12	3.19	0.89	0.15	0.09	0.08	0.08	0.04	
27	0.12	0.09	0.11	0.12	0.12	4.10	0.75	0.15	0.09	0.08	0.08	0.04	
28	0.12	0.09	0.11	0.12	0.12	3.19	0.60	0.15	0.09	0.09	0.08	0.04	
29	0.11	0.09	0.11	0.12	0.12	3.80	0.53	0.15	0.09	0.09		0.04	
30	0.09	0.09	0.11	0.12	0.12	4.10	0.43	0.15	0.09	0.09		0.04	
31		0.09		0.12	0.12		0.40		0.09	0.09		0.04	
TOTAL	20.23	2.94	3.34	3.51	3.57	60.12	34.89	6.09	3.48	2.64	2.00	1.82	144.63 CMSDAY
MEAN	0.67	0.09	0.11	0.11	0.12	2.00	1.13	0.20	0.11	0.09	0.07	0.06	0.40 CMS
MAX	15.30	0.14	0.18	0.14	0.12	9.12	3.04	0.37	0.15	0.09	0.09	0.08	15.30 CMS
MIN	0.08	0.09	0.08	0.11	0.11	0.12	0.40	0.15	0.09	0.08	0.06	0.04	0.04 CMS
RUNOFF	1.748	0.254	0.289	0.303	0.308	5.194	3.014	0.526	0.301	0.228	0.173	0.157	12.496 MCM

MOMENTARY PEAK 22.30 CMS, AT 1.00 M (A.D), AT 6.00 HOURS, ON APR 15, 1982
RUNOFF YIELD 1.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

YOM RIVER BASIN

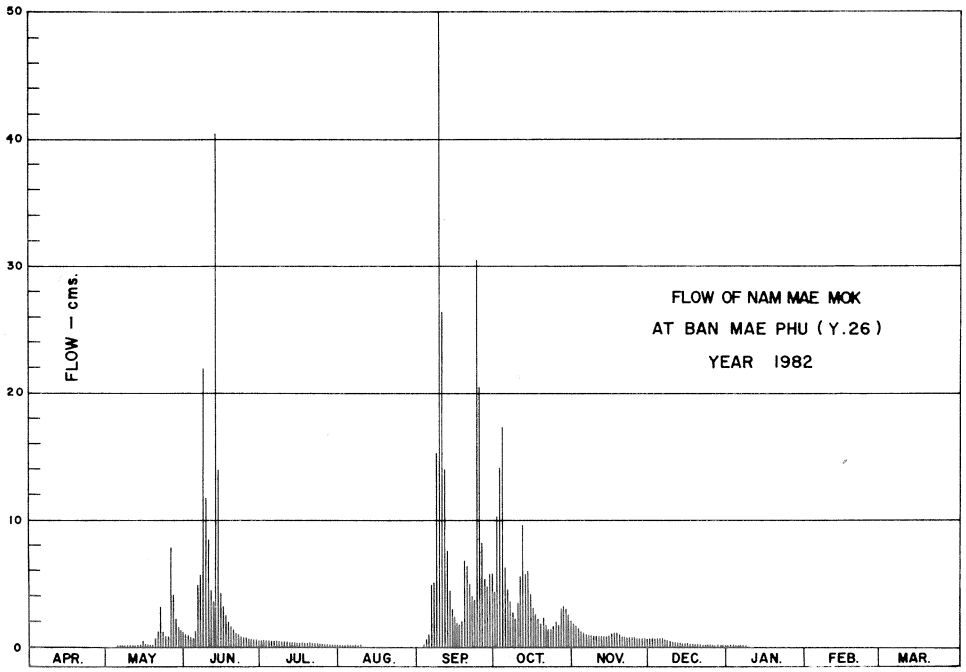
NAM MAE MOK AT BAN MAE PHU, LAMPANG (Y.26)

LOCATION	LAT. 17°-19'-45" N., LONG. 99°-27'-42" E., ON LEFT BANK DOWNSTREAM FROM BAN MAE PHU, TAMBON WIANG MOK, AMPHOE THOEN, LAMPANG.
DRAINAGE AREA	785 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE GAGE LINE.
ELEVATION	+8.00 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 86 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.26	0.90	0.84	0.73	0.65	1.20	0.98	0.85	0.73	0.53	0.33	
2	0.42	0.26	0.89	0.84	0.73	0.67	1.54	0.96	0.85	0.73	0.52	0.33	
3	0.42	0.26	0.88	0.83	0.73	0.71	1.66	0.95	0.85	0.74	0.52	0.32	
4	0.41	0.25	0.86	0.83	0.74	0.82	1.79	0.93	0.85	0.74	0.51	0.31	
5	0.41	0.25	0.94	0.82	0.74	0.90	1.34	0.92	0.85	0.72	0.51	0.31	
6	0.41	0.25	1.22	0.82	0.74	1.22	1.24	0.91	0.85	0.72	0.49	0.30	
7	0.40	0.25	1.28	0.82	0.74	1.24	1.15	0.90	0.85	0.72	0.49	0.30	
8	0.40	0.26	1.93	0.82	0.72	1.69	1.11	0.90	0.84	0.71	0.48	0.29	
9	0.39	0.25	1.57	0.82	0.71	2.76	1.02	0.90	0.82	0.70	0.47	0.29	
10	0.39	0.25	1.48	0.82	0.69	2.44	1.12	0.89	0.82	0.70	0.46	0.28	
11	0.38	0.24	1.21	0.82	0.69	1.81	1.27	0.89	0.81	0.70	0.45	0.28	
12	0.38	0.23	1.14	0.81	0.68	1.47	1.47	0.89	0.81	0.70	0.45	0.27	
13	0.37	0.22	2.49	0.81	0.68	1.27	1.29	0.89	0.81	0.69	0.44	0.27	
14	0.36	0.38	1.55	0.81	0.68	1.13	1.30	0.89	0.79	0.67	0.44	0.26	
15	0.35	0.83	1.23	0.81	0.67	1.07	1.19	0.89	0.79	0.66	0.44	0.25	
16	0.35	0.76	1.13	0.81	0.67	1.02	1.12	0.90	0.79	0.65	0.43	0.24	
17	0.34	0.77	1.06	0.80	0.67	0.99	1.08	0.91	0.78	0.64	0.42	0.23	
18	0.34	0.77	1.01	0.80	0.67	1.02	1.03	0.91	0.78	0.62	0.42	0.22	
19	0.33	0.72	0.98	0.79	0.65	1.34	1.01	0.90	0.78	0.63	0.41	0.22	
20	0.32	0.84	0.95	0.79	0.65	1.33	1.03	0.89	0.77	0.60	0.40	0.21	
21	0.32	0.91	0.92	0.78	0.67	1.28	0.98	0.89	0.75	0.59	0.40	0.21	
22	0.31	1.10	0.91	0.79	0.67	1.18	0.96	0.88	0.75	0.58	0.39	0.21	
23	0.30	0.93	0.89	0.79	0.67	1.16	0.95	0.88	0.75	0.58	0.38	0.20	
24	0.29	0.87	0.88	0.79	0.67	2.20	0.96	0.88	0.75	0.58	0.37	0.20	
25	0.28	0.88	0.87	0.77	0.68	1.75	1.00	0.88	0.75	0.57	0.37	0.19	
26	0.28	1.39	0.86	0.77	0.68	1.44	0.98	0.87	0.75	0.57	0.36	0.19	
27	0.27	1.20	0.86	0.77	0.68	1.28	1.09	0.86	0.74	0.58	0.34	0.18	
28	0.27	1.06	0.85	0.75	0.66	1.23	1.11	0.86	0.74	0.56	0.34	0.18	
29	0.26	0.98	0.84	0.75	0.65	1.29	1.10	0.86	0.74	0.55		0.17	
30	0.26	0.94	0.84	0.74	0.66	1.29	1.06	0.85	0.73	0.54		0.17	
31		0.92		0.73	0.66		1.02		0.73	0.54		0.16	
MEAN	0.35	0.63	1.11	0.80	0.69	1.32	1.17	0.90	0.79	0.65	0.44	0.24	
MAX	0.43	1.39	2.49	0.84	0.74	2.76	1.79	0.98	0.85	0.74	0.53	0.33	2.76
MIN	0.26	0.22	0.84	0.73	0.65	0.65	0.95	0.85	0.73	0.54	0.34	0.16	0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.28 M (A.D), AT 7.00 HOURS, ON JUN 13, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 7.71 M (A.D)
RIGHT BANK ELEVATION 7.76 M (A.D), DRAINAGE AREA 785 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	1.00	0.64	0.12	0.00	4.50	1.80	0.70	0.12	0.00	0.00	
2	0.00	0.00	0.94	0.64	0.12	0.00	11.20	1.60	0.70	0.12	0.00	0.00	
3	0.00	0.00	0.88	0.58	0.12	0.04	14.26	1.50	0.70	0.16	0.00	0.00	
4	0.00	0.00	0.76	0.58	0.16	0.52	17.73	1.30	0.70	0.16	0.00	0.00	
5	0.00	0.00	1.40	0.52	0.16	1.00	6.80	1.20	0.70	0.08	0.00	0.00	
6	0.00	0.00	4.80	0.52	0.16	4.80	5.10	1.10	0.70	0.08	0.00	0.00	
7	0.00	0.00	5.70	0.52	0.16	5.10	3.85	1.00	0.70	0.08	0.00	0.00	
8	0.00	0.00	21.90	0.52	0.08	15.04	3.33	1.00	0.64	0.04	0.00	0.00	
9	0.00	0.00	11.95	0.52	0.04	50.08	2.24	1.00	0.52	0.00	0.00	0.00	
10	0.00	0.00	9.76	0.52	0.00	38.60	3.46	0.94	0.52	0.00	0.00	0.00	
11	0.00	0.00	4.65	0.52	0.00	18.30	5.55	0.94	0.46	0.00	0.00	0.00	
12	0.00	0.00	3.72	0.46	0.00	9.54	9.54	0.94	0.46	0.00	0.00	0.00	
13	0.00	0.00	40.35	0.46	0.00	5.55	5.85	0.94	0.46	0.00	0.00	0.00	
14	0.00	0.00	11.45	0.46	0.00	3.59	6.00	0.94	0.36	0.00	0.00	0.00	
15	0.00	0.58	4.95	0.46	0.00	2.84	4.37	0.94	0.36	0.00	0.00	0.00	
16	0.00	0.24	3.59	0.46	0.00	2.24	3.46	1.00	0.36	0.00	0.00	0.00	
17	0.00	0.28	2.72	0.40	0.00	1.90	2.96	1.10	0.32	0.00	0.00	0.00	
18	0.00	0.28	2.12	0.40	0.00	2.24	2.36	1.10	0.32	0.00	0.00	0.00	
19	0.00	0.08	1.80	0.36	0.00	6.80	2.12	1.00	0.32	0.00	0.00	0.00	
20	0.00	0.64	1.50	0.36	0.00	6.60	2.36	0.94	0.28	0.00	0.00	0.00	
21	0.00	1.10	1.20	0.32	0.00	5.70	1.80	0.94	0.20	0.00	0.00	0.00	
22	0.00	3.20	1.10	0.36	0.00	4.24	1.60	0.88	0.20	0.00	0.00	0.00	
23	0.00	1.30	0.94	0.36	0.00	3.98	1.50	0.88	0.20	0.00	0.00	0.00	
24	0.00	0.82	0.88	0.36	0.00	30.40	1.60	0.88	0.20	0.00	0.00	0.00	
25	0.00	0.88	0.82	0.28	0.00	16.65	2.00	0.88	0.20	0.00	0.00	0.00	
26	0.00	7.80	0.76	0.28	0.00	8.88	1.80	0.82	0.20	0.00	0.00	0.00	
27	0.00	4.50	0.76	0.28	0.00	5.70	3.08	0.76	0.16	0.00	0.00	0.00	
28	0.00	2.72	0.70	0.20	0.00	4.95	3.33	0.76	0.16	0.00	0.00	0.00	
29	0.00	1.80	0.64	0.20	0.00	5.85	3.20	0.76	0.16	0.00		0.00	
30	0.00	1.40	0.64	0.16	0.00	5.85	2.72	0.70	0.12	0.00		0.00	
31		1.20		0.12	0.00		2.24		0.12	0.00		0.00	
TOTAL	0.00	28.82	144.38	12.82	1.12	266.98	141.91	30.54	12.20	0.84	0.00	0.00	639.61 CMSDAY
MEAN	0.00	0.93	4.81	0.41	0.04	8.90	4.58	1.02	0.39	0.03	0.00	0.00	1.75 CMS
MAX	0.00	7.80	40.35	0.64	0.16	50.08	17.73	1.80	0.70	0.16	0.00	0.00	50.08 CMS
MIN	0.00	0.00	0.64	0.12	0.00	0.00	1.50	0.70	0.12	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	2.490	12.474	1.108	0.097	23.067	12.261	2.639	1.054	0.073	0.000	0.000	55.262 MCM

MOMENTARY PEAK 70.60 CMS, AT 3.28 M (A.D), AT 7.00 HOURS, ON JUN 13, 1982

RUNOFF YIELD 2.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

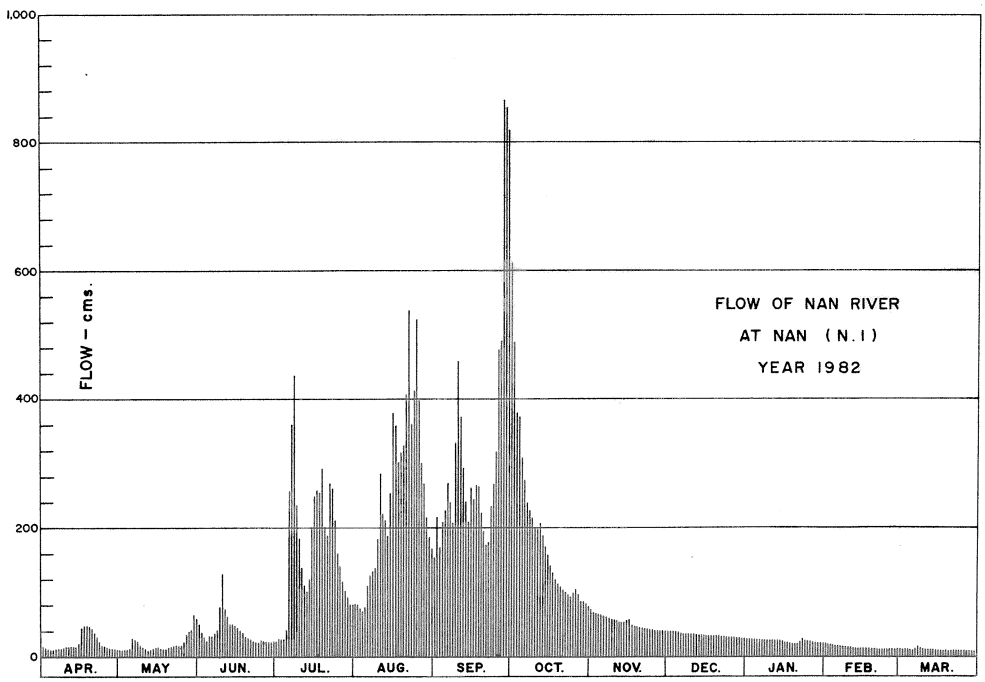
NAN RIVER AT NAN, NAN (N.1)

LOCATION	LAT. 18°-46'-23" N., LONG. 100°-46'-51" E., ON RIGHT BANK INFRONT OF FORESTRY OFFICE AMPHOE MUANG, NAN.
DRAINAGE AREA	4,609 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+192.17 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON WEST SIDE OF AUTOMATIC GAGE BUILDING.
ELEVATION	+199.204 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN 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 FLOAT	-
RATED BY CURRENT METER	1954-1956, 1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 66 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	192.83	192.77	193.21	192.93	193.57	194.09	196.09	193.47	193.13	192.99	192.90	192.77	
2	192.82	192.77	193.10	193.01	193.56	194.45	195.60	193.44	193.13	192.98	192.89	192.78	
3	192.79	192.77	193.04	192.98	193.51	194.19	195.20	193.43	193.13	192.98	192.88	192.77	
4	192.77	192.76	192.96	192.98	193.45	194.41	195.16	193.42	193.11	192.98	192.87	192.77	
5	192.75	192.75	193.07	193.15	193.51	194.51	194.92	193.39	193.10	192.98	192.86	192.75	
6	192.77	193.02	193.04	194.60	193.77	194.70	194.73	193.38	193.09	192.98	192.85	192.75	
7	192.80	192.96	193.12	195.13	193.88	194.60	194.58	193.37	193.07	192.98	192.84	192.75	
8	192.78	192.94	193.18	195.42	193.95	194.42	194.49	193.35	193.07	192.97	192.83	192.84	
9	192.82	192.88	193.56	194.56	193.97	194.90	194.44	193.33	193.06	192.96	192.82	192.81	
10	192.84	192.84	193.93	194.31	194.27	195.50	194.36	193.32	193.05	192.96	192.81	192.78	
11	192.87	192.78	193.56	194.00	194.79	195.24	194.35	193.32	193.05	192.95	192.81	192.77	
12	192.85	192.76	193.38	193.80	194.48	194.82	194.39	193.30	193.05	192.95	192.81	192.75	
13	192.83	192.76	193.27	193.72	194.42	194.55	194.31	193.29	193.05	192.95	192.81	192.74	
14	192.82	192.77	193.25	193.89	194.29	194.41	194.19	193.29	193.05	192.94	192.81	192.74	
15	192.90	192.83	193.24	194.40	194.66	194.69	194.11	193.32	193.04	192.92	192.80	192.73	
16	193.22	192.84	193.22	194.61	195.20	194.58	194.01	193.33	193.04	192.92	192.80	192.73	
17	193.25	192.81	193.15	194.66	195.11	194.70	193.92	193.26	193.04	192.91	192.79	192.73	
18	193.24	192.79	193.12	194.65	194.87	194.69	193.85	193.23	193.04	192.90	192.78	192.73	
19	193.24	192.79	193.04	194.82	194.94	194.51	193.80	193.22	193.04	192.89	192.77	192.73	
20	193.19	192.80	193.03	194.41	195.08	194.35	193.76	193.21	193.04	192.88	192.77	192.73	
21	193.11	192.83	192.99	194.29	195.36	194.20	193.72	193.19	193.04	192.88	192.77	192.74	
22	193.03	192.84	192.96	194.71	195.78	194.23	193.70	193.19	193.03	192.93	192.78	192.74	
23	192.93	192.86	192.93	194.67	195.12	194.57	193.67	193.18	193.03	192.99	192.78	192.74	
24	192.87	192.84	192.91	194.43	195.33	194.73	193.64	193.17	193.03	192.96	192.78	192.74	
25	192.85	192.83	192.97	194.15	195.73	194.97	193.71	193.16	193.02	192.95	192.78	192.74	
26	192.83	192.90	192.96	193.97	195.19	195.57	193.74	193.15	193.02	192.93	192.78	192.74	
27	192.81	193.05	192.94	193.85	194.89	195.62	193.65	193.15	193.02	192.92	192.78	192.74	
28	192.80	193.15	192.93	193.72	194.69	196.83	193.59	193.14	193.01	192.91	192.78	192.74	
29	192.79	193.18	192.93	193.63	194.47	196.80	193.58	193.14	193.01	192.91		192.74	
30	192.78	193.42	192.95	193.56	194.29	196.72	193.56	193.14	193.01	192.90		192.73	
31		193.34		193.55	194.16		193.52		193.00	192.90		192.72	
MEAN	192.91	192.89	193.13	194.08	194.53	194.89	194.20	193.28	193.05	192.94	192.81	192.75	
MAX	193.25	193.42	193.93	195.42	195.78	196.83	196.09	193.47	193.13	192.99	192.90	192.84	196.83
MIN	192.75	192.75	192.91	192.93	193.45	194.09	193.52	193.14	193.00	192.88	192.77	192.72	192.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 197.47 M (MSL), AT 16.00 HOURS, ON SEP 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 192.17 M (MSL), RIVER BED 191.33 M (MSL)
LEFT BANK ELEVATION 199.82 M (MSL)
RIGHT BANK ELEVATION 199.80 M (MSL), DRAINAGE AREA 4609 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.10	10.20	44.00	21.40	81.70	154.40	630.00	70.70	37.40	26.20	19.00	10.20	
2	13.40	10.20	35.00	27.80	80.60	216.50	486.00	67.40	37.40	25.40	18.30	10.80	
3	11.40	10.20	30.20	25.40	75.10	170.40	380.00	66.30	37.40	25.40	17.60	10.20	
4	10.20	9.60	23.80	25.40	68.50	208.90	370.40	65.20	35.80	25.40	16.90	10.20	
5	9.00	9.00	32.60	39.00	75.10	227.90	313.60	62.00	35.00	25.40	16.20	9.00	
6	10.20	28.60	30.20	245.00	107.10	266.00	272.30	61.00	34.20	25.40	15.50	9.00	
7	12.00	23.80	36.60	363.20	121.40	245.00	241.20	60.00	32.60	25.40	14.80	9.00	
8	10.80	22.20	41.40	437.20	132.00	210.80	224.10	58.00	32.60	24.60	14.10	14.80	
9	13.40	17.60	80.60	237.40	135.20	309.00	214.60	56.00	31.80	23.80	13.40	12.70	
10	14.80	14.80	128.80	190.80	183.90	458.00	199.80	55.00	31.00	23.80	12.70	10.80	
11	16.90	10.80	80.60	140.00	284.90	390.40	198.00	55.00	31.00	23.00	12.70	10.20	
12	15.50	9.60	61.00	111.00	222.20	291.40	205.20	53.00	31.00	23.00	12.70	9.00	
13	14.10	9.60	50.00	100.60	210.80	235.50	190.80	52.00	31.00	23.00	12.70	8.40	
14	13.40	10.20	48.00	122.70	187.30	208.90	170.40	52.00	31.00	22.20	12.70	8.40	
15	19.00	14.10	47.00	207.00	257.60	263.90	157.60	55.00	30.20	20.60	12.00	7.80	
16	45.00	14.80	45.00	247.10	380.00	241.20	141.60	56.00	30.20	20.60	12.00	7.80	
17	48.00	12.70	39.00	257.60	358.40	266.00	127.20	49.00	30.20	19.80	11.40	7.80	
18	47.00	11.40	36.60	255.50	302.40	263.90	117.50	46.00	30.20	19.00	10.80	7.80	
19	47.00	11.40	30.20	291.40	318.20	227.90	111.00	45.00	30.20	18.30	10.20	7.80	
20	42.20	12.00	29.40	208.90	351.20	198.00	105.80	44.00	30.20	17.60	10.20	7.80	
21	35.80	14.10	26.20	187.30	421.60	172.00	100.60	42.20	30.20	17.60	10.20	8.40	
22	29.40	14.80	23.80	268.10	538.20	177.10	98.00	42.20	29.40	21.40	10.80	8.40	
23	21.40	16.20	21.40	259.70	360.80	239.30	94.10	41.40	29.40	26.20	10.80	8.40	
24	16.90	14.80	19.80	212.70	413.80	272.30	90.20	40.60	29.40	23.80	10.80	8.40	
25	15.50	14.10	24.60	164.00	523.70	325.10	99.30	39.80	28.60	23.00	10.80	8.40	
26	14.10	19.00	23.80	135.20	377.60	477.60	103.20	39.00	28.60	21.40	10.80	8.40	
27	12.70	31.00	22.20	117.50	306.80	491.80	91.50	39.00	28.60	20.60	10.80	8.40	
28	12.00	39.00	21.40	100.60	263.90	865.90	83.90	38.20	27.80	19.80	10.80	8.40	
29	11.40	41.40	21.40	88.90	220.30	856.00	82.80	38.20	27.80	19.80		8.40	
30	10.80	65.20	23.00	80.60	187.30	829.60	80.60	38.20	27.80	19.00		7.80	
31		57.00		79.50	165.60		76.20		27.00	19.00		7.20	
TOTAL	607.40	599.40	1177.60	5248.50	7713.20	9760.70	5857.50	1527.40	965.00	689.50	361.70	280.10	34788.00 CMSDAY
MEAN	20.25	19.34	39.25	169.31	248.81	325.36	188.95	50.91	31.13	22.24	12.92	9.04	95.31 CMS
MAX	48.00	65.20	128.80	437.20	538.20	865.90	630.00	70.70	37.40	26.20	19.00	14.80	865.90 CMS
MIN	9.00	9.00	19.80	21.40	68.50	154.40	76.20	38.20	27.00	17.60	10.20	7.20	7.20 CMS
RUNOFF	52.479	51.788	101.745	453.470	666.420	843.324	506.088	131.967	83.376	59.573	31.251	24.201	3005.684 MCM

MOMENTARY PEAK 1082.80 CMS, AT 197.47 M (MSL), AT 16.00 HOURS, ON SEP 28, 1982

RUNOFF YIELD 20.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 234.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

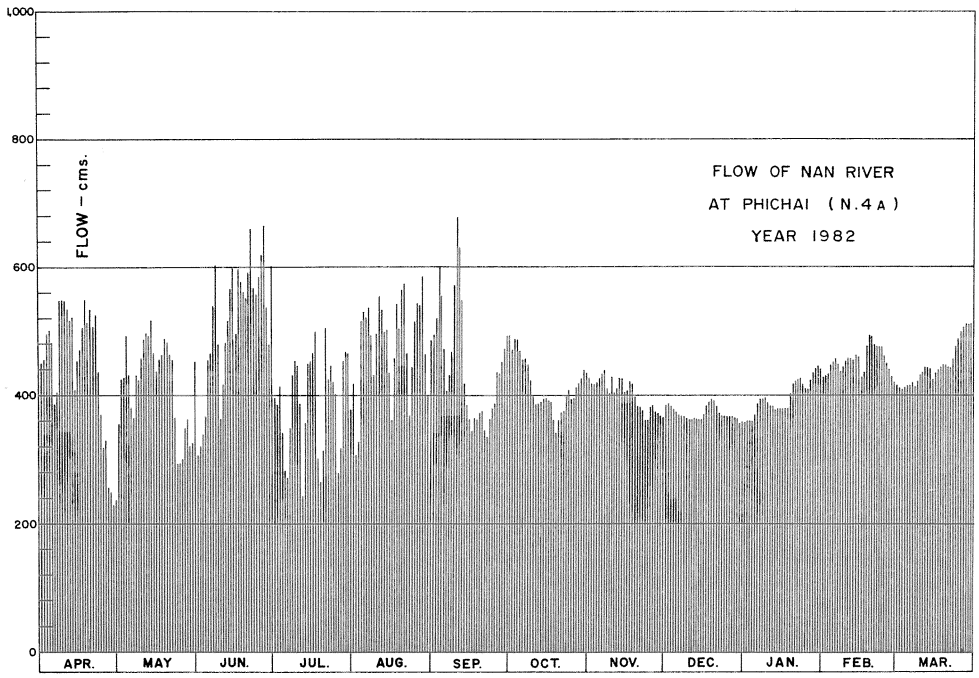
NAN RIVER AT PHICHAI, UTTARADIT (N.4A)

LOCATION	LAT. 17°-16'-58" N., LONG. 101°-04'-53" E., ON LEFT BANK ABOUT 2.5 KILOMETERS DOWNSTREAM FROM AMPHOE PHICHAI OFFICE, BAN WANG PHANIAT, AMPHOE PHICHAI, UTTARADIT.
DRAINAGE AREA	19,383 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+44.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+53.065 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	-
RATED BY FLOAT	-
RATED BY CURRENT METER	-
STABILITY OF CHANNEL REGIMES	STABLE
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR DUE TO BACKWATER EFFECT FROM NARESUAN DAM ABOUT 53 KM. DOWNSTREAM AND STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	48.04	47.64	47.28	47.77	47.88	48.25	48.26	47.92	47.70	47.57	47.94	47.87	
2	48.09	47.92	47.34	47.70	47.28	48.27	48.15	47.88	47.72	47.58	47.95	47.85	
3	48.26	47.93	47.48	47.85	47.42	48.52	48.23	47.87	47.70	47.58	47.96	47.84	
4	48.30	48.26	47.63	47.52	48.37	48.77	48.22	47.88	47.68	47.58	48.03	47.86	
5	48.19	47.96	48.04	47.16	48.44	48.27	48.16	47.91	47.66	47.64	48.06	47.88	
6	47.72	47.72	48.13	47.08	48.39	47.76	48.06	47.96	47.63	47.72	48.08	47.88	
7	47.86	47.60	48.47	47.52	48.47	47.93	48.08	47.98	47.62	47.76	48.03	47.91	
8	48.53	47.95	48.79	47.93	48.26	47.96	48.04	47.85	47.62	47.76	47.98	47.86	
9	48.53	47.91	48.17	48.06	47.95	48.45	47.92	47.80	47.60	47.78	48.03	47.91	
10	48.53	48.10	47.60	48.02	48.30	48.89	47.82	47.94	47.60	47.75	48.07	47.96	
11	48.46	48.23	47.93	47.62	48.56	49.14	47.71	47.81	47.58	47.71	48.08	47.99	
12	48.37	48.28	48.28	46.91	48.46	48.48	47.72	47.84	47.60	47.70	48.08	48.02	
13	48.40	48.25	48.39	47.50	48.28	47.93	47.72	47.92	47.60	47.67	48.07	48.02	
14	47.83	48.37	48.64	48.03	48.30	47.74	47.76	47.92	47.58	47.68	48.11	48.00	
15	48.06	48.14	48.77	48.06	48.00	47.63	47.76	47.82	47.59	47.68	48.09	47.92	
16	48.18	47.98	48.27	48.11	47.57	47.49	47.75	47.82	47.64	47.68	47.94	47.98	
17	48.35	48.07	48.76	48.29	48.07	47.60	47.73	47.90	47.70	47.68	47.98	48.00	
18	48.54	48.10	48.68	47.35	48.50	47.58	47.59	47.88	47.74	47.69	48.17	48.01	
19	48.36	48.23	48.61	47.03	48.31	47.64	47.48	47.76	47.76	47.80	48.27	48.04	
20	48.46	48.21	48.52	47.30	48.60	47.66	47.57	47.69	47.75	47.88	48.26	48.04	
21	48.32	48.11	48.83	48.32	48.65	47.51	47.65	47.69	47.69	47.90	48.20	48.01	
22	48.41	48.07	49.05	47.91	48.01	47.44	47.66	47.66	47.65	47.92	48.18	48.01	
23	47.99	47.48	48.63	48.02	47.62	47.56	47.76	47.58	47.62	47.94	48.18	48.11	
24	47.61	47.19	48.57	47.91	48.04	47.68	47.82	47.58	47.62	47.90	48.17	48.20	
25	47.34	47.21	48.71	47.78	48.35	47.73	47.75	47.69	47.62	47.85	48.12	48.26	
26	47.42	47.25	48.87	47.12	48.51	47.97	47.76	47.70	47.62	47.84	48.05	48.31	
27	47.01	47.52	49.08	47.35	48.49	47.96	47.86	47.65	47.62	47.91	48.00	48.35	
28	46.95	47.59	48.43	48.04	48.70	48.05	47.88	47.65	47.60	47.97	47.93	48.36	
29	46.81	47.36	48.19	48.14	48.21	48.15	47.91	47.62	47.59	48.01		48.35	
30	46.88	47.38	48.78	48.12	47.77	48.25	47.99	47.60	47.56	48.04		48.37	
31		48.05		47.67	48.16		47.98		47.57	48.00		48.47	
MEAN	47.99	47.87	48.36	47.72	48.19	48.01	47.86	47.79	47.64	47.78	48.07	48.05	
MAX	48.54	48.37	49.08	48.32	48.70	49.14	48.26	47.98	47.76	48.04	48.27	48.47	49.14
MIN	46.81	47.19	47.28	46.91	47.28	47.44	47.48	47.58	47.56	47.57	47.93	47.84	46.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 49.22 M (MSL), AT 4.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 44.00 M (MSL), RIVER BED 44.65 M (MSL)
LEFT BANK ELEVATION 53.02 M (MSL)
RIGHT BANK ELEVATION 54.20 M (MSL), DRAINAGE AREA 19383 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	449.0	371.6	305.6	396.3	417.2	491.0	493.0	425.0	383.0	358.3	429.0	415.3	
2	459.0	425.0	316.2	383.0	305.6	495.0	471.0	417.2	386.8	360.2	431.0	411.5	
3	493.0	427.0	341.4	411.5	330.6	546.2	487.0	415.3	383.0	360.2	433.0	409.6	
4	501.0	493.0	369.7	348.8	515.0	598.7	485.0	417.2	379.2	360.2	447.0	413.4	
5	479.0	433.0	449.0	285.2	529.4	495.0	473.0	423.0	375.4	371.6	453.0	417.2	
6	386.8	386.8	467.0	271.6	519.0	394.4	453.0	433.0	369.7	386.8	457.0	417.2	
7	413.4	364.0	535.7	348.8	535.7	427.0	457.0	437.0	367.8	394.4	447.0	423.0	
8	548.3	431.0	602.9	427.0	493.0	433.0	449.0	411.5	367.8	394.4	437.0	413.4	
9	548.3	423.0	475.0	453.0	431.0	531.5	425.0	402.0	364.0	398.2	447.0	423.0	
10	548.3	461.0	364.0	445.0	501.0	623.9	405.8	429.0	364.0	392.5	455.0	433.0	
11	533.6	487.0	427.0	367.8	554.6	677.8	384.9	403.9	360.2	384.9	457.0	439.0	
12	515.0	497.0	497.0	242.7	533.6	537.8	386.8	409.6	364.0	383.0	457.0	445.0	
13	521.0	491.0	519.0	345.0	497.0	427.0	386.8	425.0	364.0	377.3	455.0	445.0	
14	407.7	515.0	571.4	447.0	501.0	390.6	394.4	425.0	360.2	379.2	463.0	441.0	
15	453.0	469.0	598.7	453.0	441.0	369.7	394.4	405.8	362.1	379.2	459.0	425.0	
16	477.0	437.0	495.0	463.0	358.3	343.2	392.5	405.8	371.6	379.2	429.0	437.0	
17	511.0	455.0	596.6	499.0	455.0	364.0	388.7	421.0	383.0	379.2	437.0	441.0	
18	550.4	461.0	579.8	318.0	542.0	360.2	362.1	417.2	390.6	381.1	475.0	443.0	
19	513.0	487.0	565.1	263.1	503.0	371.6	341.4	394.4	394.4	402.0	495.0	449.0	
20	533.6	483.0	546.2	309.0	563.0	375.4	358.3	381.1	392.5	417.2	493.0	449.0	
21	505.0	463.0	611.3	505.0	573.5	346.9	373.5	381.1	381.1	421.0	481.0	443.0	
22	523.1	455.0	658.0	423.0	443.0	334.2	375.4	375.4	373.5	425.0	477.0	443.0	
23	439.0	341.4	569.3	445.0	367.8	356.4	394.4	360.2	367.8	429.0	477.0	463.0	
24	365.9	290.3	556.7	423.0	449.0	379.2	405.8	360.2	367.8	421.0	475.0	481.0	
25	316.2	293.7	586.1	398.2	511.0	388.7	392.5	381.1	367.8	411.5	465.0	493.0	
26	330.6	300.5	619.7	278.4	544.1	435.0	394.4	383.0	367.8	409.6	451.0	503.0	
27	259.7	348.8	664.6	318.0	539.9	433.0	413.4	373.5	367.8	423.0	441.0	511.0	
28	249.5	362.1	527.3	449.0	584.0	451.0	417.2	373.5	364.0	435.0	427.0	513.0	
29	226.6	319.8	479.0	469.0	483.0	471.0	423.0	367.8	362.1	443.0		511.0	
30	237.8	323.4	600.8	465.0	396.3	491.0	439.0	364.0	356.4	449.0		515.0	
31		451.0		377.3	473.0		437.0		358.3	441.0		535.7	
TOTAL	13294.8	12946.4	15495.1	12028.7	14890.6	13339.4	12854.7	12018.8	11517.7	12347.2	12750.0	14002.3	157485.7 CMSDAY
MEAN	443.2	417.6	516.5	388.0	480.3	444.6	414.7	400.6	371.5	398.3	455.4	451.7	431.5 CMS
MAX	550.4	515.0	664.6	505.0	584.0	677.8	493.0	437.0	394.4	449.0	495.0	535.7	677.8 CMS
MIN	226.6	290.3	305.6	242.7	305.6	334.2	341.4	360.2	356.4	358.3	427.0	409.6	226.6 CMS
RUNOFF	1148.67	1118.57	1338.78	1039.28	1286.55	1152.52	1110.65	1038.42	995.13	1066.80	1101.60	1209.80	13606.76 MCM

MOMENTARY PEAK 695.40 CMS, AT 49.22 M (MSL), AT 4.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 22.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

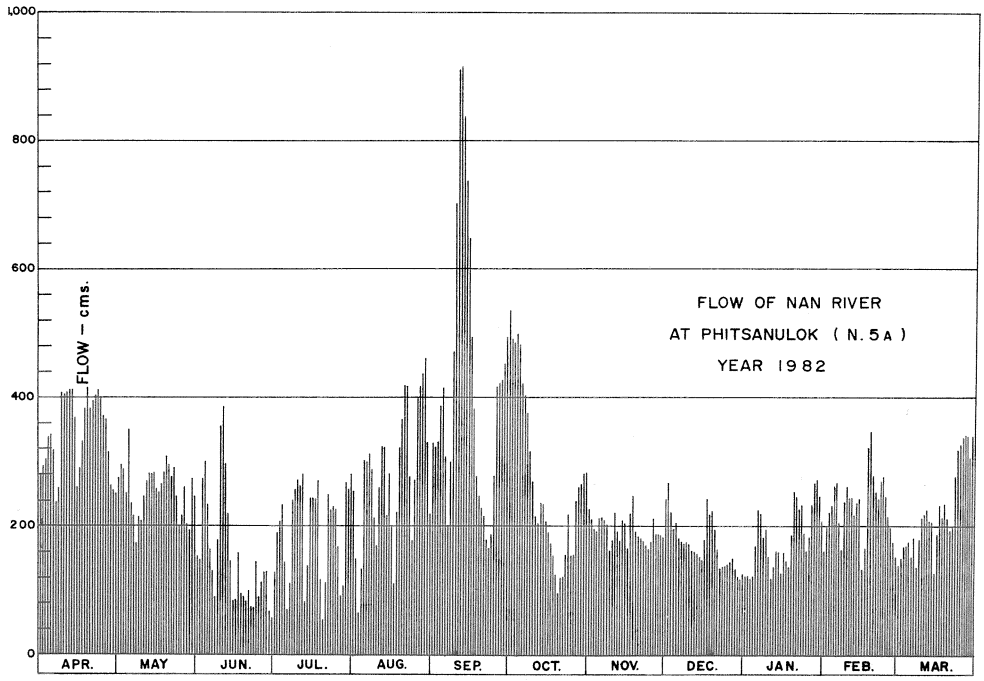
NAN RIVER AT PHITSANULOK, PHITSANULOK (N.5A)

LOCATION	LAT. 16°-49'-15" N., LONG. 100°-15'-49" E., ON LEFT BANK NEAR POST OFFICE AND ABOUT KILOMETER UPSTREAM FROM GAGING STATION N.5, AMPHOE MUANG, PHITSANULOK.
DRAINAGE AREA	25,286 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+34.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+45.856 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1963 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	37.56	37.44	36.29	35.94	37.32	37.95	39.44	37.08	37.17	35.97	36.39	36.18	
2	37.68	37.69	36.26	36.66	36.15	37.90	39.18	36.87	37.43	36.00	36.83	36.27	
3	37.79	37.61	37.48	36.84	35.22	38.00	39.14	36.74	36.96	35.91	37.05	36.51	
4	38.03	37.29	37.71	37.13	36.24	38.43	39.23	36.71	36.77	35.97	37.17	36.49	
5	38.06	38.12	37.02	36.11	37.72	38.60	39.11	36.92	36.87	36.42	37.43	36.59	
6	37.82	37.11	36.44	35.32	37.71	37.18	38.78	36.93	36.60	37.07	37.46	36.32	
7	37.17	36.95	36.05	35.85	37.81	36.83	38.51	36.91	36.59	37.02	36.91	36.65	
8	37.46	36.54	35.60	37.20	37.58	37.87	38.29	36.82	36.54	36.63	36.46	36.16	
9	38.53	36.95	36.79	37.36	36.96	39.08	37.73	36.41	36.57	36.78	37.18	36.63	
10	38.52	36.87	38.11	37.47	36.52	40.75	37.43	36.62	36.54	36.47	37.39	36.94	
11	38.55	37.25	38.38	37.38	37.51	41.77	36.96	37.02	36.39	35.90	37.25	36.97	
12	38.59	37.46	37.48	36.62	37.91	41.81	36.86	36.70	36.42	36.12	37.27	37.07	
13	38.57	37.56	36.92	35.47	37.88	41.24	37.15	36.55	36.36	36.43	37.01	36.90	
14	38.26	37.56	36.18	36.29	36.97	40.76	37.14	36.89	36.33	36.40	37.17	36.87	
15	37.37	37.58	35.50	37.22	37.56	40.41	36.98	36.83	36.23	36.01	37.24	36.03	
16	37.62	37.32	35.49	37.22	36.61	39.24	36.76	36.43	36.58	36.39	36.10	36.65	
17	37.96	37.31	36.38	37.21	35.79	38.07	36.57	36.99	37.23	36.28	36.39	37.12	
18	38.36	37.47	35.64	37.46	37.56	37.54	36.31	37.22	36.98	36.13	37.93	36.97	
19	38.57	37.60	35.59	36.02	38.03	37.30	35.93	36.73	37.03	36.63	38.11	37.17	
20	38.32	37.79	35.47	35.02	38.26	37.08	35.61	36.66	36.84	37.33	37.56	37.02	
21	38.44	37.65	35.71	35.97	38.67	36.94	35.95	36.59	36.50	37.26	37.35	36.75	
22	38.49	37.51	35.37	37.51	38.65	36.59	35.94	36.57	36.10	37.08	37.21	36.82	
23	38.57	37.63	35.35	37.04	37.30	36.44	36.38	36.50	36.15	37.14	37.47	37.33	
24	38.51	37.13	36.23	37.10	36.59	36.71	36.98	36.42	36.17	36.78	37.56	37.86	
25	38.28	36.77	35.55	37.05	37.68	37.71	36.31	36.55	36.17	36.37	37.24	37.92	
26	38.25	37.11	35.83	36.39	38.47	38.68	36.34	36.92	36.25	36.63	36.91	38.02	
27	38.25	37.34	36.04	35.57	38.80	38.78	37.20	36.68	36.31	37.13	36.79	38.07	
28	37.42	36.80	36.07	35.77	38.91	38.83	37.37	36.69	36.12	37.46	36.53	38.05	
29	37.33	36.74	35.28	37.43	39.01	38.98	37.44	36.65	35.97	37.49		37.80	
30	37.29	37.50	35.08	37.33	37.75	39.22	37.57	36.64	35.92	37.35		38.04	
31		37.23		37.55	37.01		37.59		36.04	36.96		38.29	
MEAN	38.05	37.32	36.24	36.66	37.49	38.56	37.36	36.74	36.52	36.63	37.12	37.05	
MAX	38.59	38.12	38.38	37.55	39.01	41.81	39.44	37.22	37.43	37.49	38.11	38.29	41.81
MIN	37.17	36.54	35.08	35.02	35.22	36.44	35.61	36.41	35.92	35.90	36.10	36.03	35.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 42.09 M (MSL), AT 5.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 34.50 M (MSL), RIVER BED 32.53 M (MSL)
LEFT BANK ELEVATION 45.86 M (MSL)
RIGHT BANK ELEVATION 45.85 M (MSL), DRAINAGE AREA 25286 SQUARE KILOMETERS



DISCHARGE; IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	280.5	267.0	149.1	117.9	253.5	327.8	535.0	227.1	236.8	120.5	158.1	139.2	
2	294.6	295.8	146.4	183.7	136.5	321.5	489.8	205.2	265.9	123.0	201.1	147.3	
3	307.8	286.2	271.5	202.1	63.3	334.0	482.6	191.9	214.4	115.4	223.9	168.9	
4	337.9	250.1	298.2	232.5	144.6	391.1	498.7	188.8	194.9	120.5	236.8	167.1	
5	341.8	349.6	220.7	132.9	299.4	414.0	477.3	210.3	205.2	160.8	265.9	176.6	
6	311.5	230.3	162.6	69.8	298.2	237.8	421.2	211.3	177.5	226.0	269.2	151.8	
7	236.8	213.4	127.5	110.2	310.3	201.1	401.9	209.3	176.6	220.7	209.3	182.6	
8	269.2	171.8	89.0	240.0	282.8	317.7	372.2	200.1	171.8	180.6	164.4	137.4	
9	404.5	213.4	197.0	258.0	214.4	471.9	300.6	159.9	174.7	195.9	237.8	180.6	
10	403.2	205.2	348.3	270.4	169.9	740.0	265.9	179.6	171.8	165.3	261.4	212.3	
11	407.3	245.6	384.3	260.3	274.9	908.1	214.4	220.7	158.1	114.5	245.6	215.4	
12	412.7	269.2	271.5	179.6	322.8	914.8	204.2	187.8	160.8	133.8	247.9	226.0	
13	410.0	280.5	210.3	79.9	319.0	820.6	234.6	172.8	155.4	161.7	219.6	208.3	
14	368.1	280.5	139.2	149.1	215.4	741.6	233.5	207.2	152.7	159.0	236.8	205.2	
15	259.1	282.8	82.0	242.3	280.5	685.6	216.4	201.1	143.7	123.9	244.5	125.7	
16	287.4	253.5	81.3	242.3	178.5	500.5	193.9	161.7	175.6	158.1	132.0	182.6	
17	329.0	252.4	157.2	241.1	105.2	343.1	174.7	217.5	243.4	148.2	158.1	231.4	
18	381.6	270.4	92.4	269.2	280.5	278.3	150.9	242.3	216.4	134.7	325.3	215.4	
19	410.0	285.0	88.3	124.8	337.9	251.2	117.1	190.8	221.7	180.6	348.3	236.8	
20	376.2	307.8	79.9	51.2	368.1	227.1	89.9	183.7	202.1	254.6	280.5	220.7	
21	392.4	291.0	98.4	120.5	416.8	212.3	118.8	176.6	168.0	246.7	256.9	192.9	
22	399.2	274.9	73.0	274.9	416.0	176.6	117.9	174.7	132.0	227.1	241.1	200.1	
23	410.0	288.6	71.7	222.8	251.2	162.6	157.2	168.0	136.5	233.5	270.4	254.6	
24	401.9	232.5	143.7	229.2	176.6	188.8	216.4	160.8	138.3	195.9	280.5	316.5	
25	370.8	194.9	85.5	223.9	294.6	298.2	150.9	172.8	138.3	156.3	244.5	324.0	
26	366.7	230.3	108.6	158.1	396.5	417.2	153.6	210.3	145.5	180.6	209.3	336.6	
27	366.7	255.8	126.6	86.9	422.0	421.2	240.0	185.7	150.9	232.5	197.0	343.1	
28	264.8	198.0	129.3	103.5	441.6	427.4	259.1	186.7	133.8	269.2	170.8	340.5	
29	254.6	191.9	67.2	265.9	459.5	454.1	267.0	182.6	120.5	272.6		309.0	
30	250.1	273.8	54.8	254.6	303.0	496.9	281.6	181.6	116.2	256.9		339.2	
31		243.4		279.4	219.6		283.9		126.6	214.4		372.2	
TOTAL	10306.4	7885.6	4555.5	5877.0	8653.1	12683.1	8321.2	5768.9	5326.1	5683.5	6537.0	7060.0	88657.4 CMSDAY
MEAN	343.5	254.4	151.8	189.6	279.1	422.8	268.4	192.3	171.8	183.3	233.5	227.7	242.9 CMS
MAX	412.7	349.6	384.3	279.4	459.5	914.8	535.0	242.3	265.9	272.6	348.3	372.2	914.8 CMS
MIN	236.8	171.8	54.8	51.2	63.3	162.6	89.9	159.9	116.2	114.5	132.0	125.7	51.2 CMS
RUNOFF	890.47	681.32	393.60	507.77	747.63	1095.82	718.95	498.43	460.18	491.05	564.80	609.98	7660.00 MCM

MOMENTARY PEAK 963.75 CMS AT 42.09 M (MSL) AT 5.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 9.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 38.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

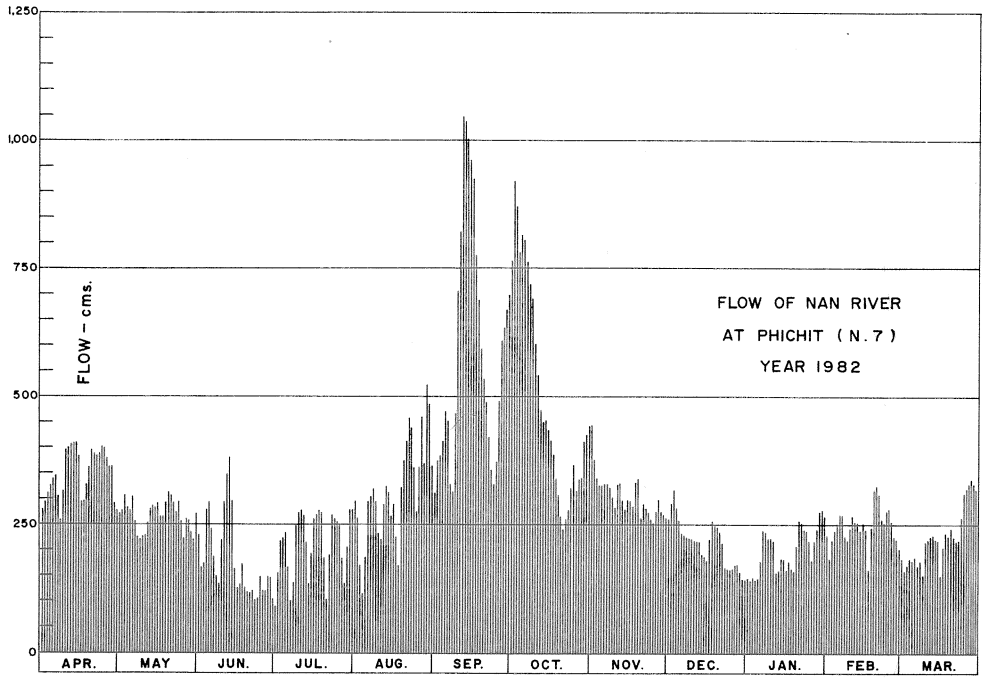
NAN RIVER AT PHICHIT, PHICHIT (N.7)

LOCATION	LAT. 16°-26'-31" N., LONG. 100°-21'-11" E., ON RIGHT BANK INFRONT OF PHICHIT PHITHAYA KHAM SCHOOL, AMPHOE MUANG, PHICHIT.
DRAINAGE AREA	29,153 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+26.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF PHICHIT PHITHAYA KHAM SCHOOL.
ELEVATION	+37.228 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1934 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1967, 1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1967, 1973 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	29.57	29.46	29.06	27.26	29.71	29.88	33.35	30.83	29.39	28.05	29.03	28.54	
2	29.69	29.58	28.35	28.06	29.39	30.42	34.29	30.43	29.76	28.00	28.58	28.25	
3	29.79	29.81	28.47	28.77	28.33	30.52	33.92	30.11	29.92	28.06	28.92	28.37	
4	29.96	29.60	29.55	28.96	27.65	30.77	33.39	30.00	29.66	27.98	29.13	28.53	
5	30.16	29.58	29.69	29.12	28.55	31.17	33.60	30.00	29.36	28.05	29.30	28.51	
6	30.18	29.77	29.09	28.28	29.73	31.03	33.52	30.00	29.11	28.53	29.48	28.56	
7	29.84	29.23	28.57	27.49	29.83	30.02	33.24	30.06	29.03	29.17	29.47	28.37	
8	29.35	28.93	28.12	27.97	29.96	29.92	33.05	30.03	28.92	29.11	29.01	28.52	
9	29.83	28.72	27.90	29.23	29.70	31.09	32.78	29.84	28.91	28.86	28.63	28.16	
10	30.57	28.98	28.92	29.49	29.09	32.79	32.14	29.63	28.95	28.91	29.16	28.61	
11	30.64	29.05	29.78	29.56	28.90	33.49	31.67	30.01	28.87	28.64	29.44	28.98	
12	30.69	29.33	30.31	29.43	29.69	35.09	31.22	30.06	28.73	28.20	29.34	29.06	
13	30.70	29.55	30.47	28.68	30.00	35.02	31.01	29.81	28.71	28.27	29.30	29.06	
14	30.71	29.62	29.79	27.87	29.91	34.77	31.04	29.57	28.60	28.55	29.15	28.95	
15	30.48	29.61	28.43	28.51	29.44	34.53	30.95	29.74	28.58	28.53	29.29	28.80	
16	29.70	29.67	27.79	29.38	29.68	34.32	30.74	29.73	28.52	28.30	29.11	28.14	
17	29.73	29.42	27.83	29.48	28.89	33.30	30.43	29.65	28.90	28.45	28.32	28.70	
18	30.05	29.45	28.40	29.56	28.39	32.55	30.15	30.07	29.33	28.32	28.70	29.10	
19	30.39	29.74	27.89	29.50	29.98	32.06	29.83	30.13	29.28	28.25	29.90	29.06	
20	30.62	29.88	27.70	28.28	30.47	31.71	29.41	29.41	29.22	28.74	30.00	29.17	
21	30.53	29.85	27.65	27.44	30.76	31.32	29.17	29.67	29.18	29.36	29.70	29.00	
22	30.51	29.75	27.74	28.28	31.08	30.66	29.41	29.59	28.63	29.33	29.38	28.82	
23	30.54	29.52	27.45	29.46	30.85	30.24	29.56	29.52	28.30	29.18	29.32	28.89	
24	30.64	29.70	27.51	29.36	30.11	30.02	29.87	29.38	28.29	29.17	29.53	29.41	
25	30.64	29.20	28.10	29.35	29.57	30.42	30.34	29.32	28.29	28.84	29.58	29.84	
26	30.46	28.96	27.72	29.27	30.44	31.43	29.92	29.52	28.31	28.50	29.25	29.96	
27	30.32	29.37	27.73	28.57	31.11	32.18	30.12	29.76	28.43	28.73	28.97	30.03	
28	30.35	29.36	28.09	27.95	30.41	32.35	30.16	29.50	28.39	29.23	28.82	30.10	
29	29.77	28.97	28.07	28.72	31.57	32.55	30.80	29.48	28.19	29.52		30.03	
30	29.56	28.91	27.54	29.57	31.29	32.77	30.83	29.44	28.03	29.54		29.91	
31		29.48		29.57	30.40		30.97		28.00	29.40		30.09	
MEAN	30.20	29.42	28.46	28.79	29.83	31.95	31.32	29.81	28.83	28.70	29.21	29.02	
MAX	30.71	29.88	30.47	29.57	31.57	35.09	34.29	30.83	29.92	29.54	30.00	30.10	35.09
MIN	29.35	28.72	27.45	27.26	27.65	29.88	29.17	29.32	28.00	27.98	28.32	28.14	27.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 35.19 M (MSL), AT 18.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 26.00 M (MSL), RIVER BED 24.80 M (MSL)
LEFT BANK ELEVATION 37.00 M (MSL)
RIGHT BANK ELEVATION 37.25 M (MSL), DRAINAGE AREA 29153 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	279.0	268.2	228.5	88.9	293.6	311.8	775.5	423.9	261.3	143.0	225.5	182.2	
2	291.5	280.0	167.0	143.8	261.3	373.4	919.9	374.6	298.8	139.0	185.4	159.0	
3	302.0	304.1	176.6	219.0	165.4	385.4	862.6	337.1	316.2	143.8	221.3	168.6	
4	320.6	282.0	277.1	221.9	114.5	416.3	781.5	325.0	288.3	137.6	235.5	181.4	
5	342.6	280.0	291.5	234.5	183.0	468.1	813.0	325.0	258.3	143.0	252.4	179.8	
6	344.8	299.9	231.5	161.4	295.6	449.9	801.0	325.0	233.5	181.4	270.1	183.8	
7	307.4	245.5	184.6	103.8	306.3	327.2	759.0	331.6	225.5	239.5	269.2	168.6	
8	257.3	221.4	148.6	136.9	320.6	316.2	730.5	328.3	221.3	233.5	223.5	180.6	
9	306.3	218.2	132.0	245.5	292.5	457.7	691.1	307.4	221.1	220.3	216.8	151.8	
10	391.4	222.2	221.3	271.1	231.5	692.6	598.6	285.2	221.7	221.1	238.5	216.5	
11	400.0	227.5	300.9	278.0	221.0	796.5	534.5	326.1	220.5	217.0	266.2	222.2	
12	406.3	255.3	360.2	265.2	291.5	1047.9	474.6	331.6	218.3	155.0	256.3	228.5	
13	407.5	277.1	379.4	217.6	325.0	1036.3	447.3	304.1	218.0	160.6	252.4	228.5	
14	408.8	284.1	302.0	129.9	315.1	996.2	451.2	279.0	187.0	183.0	237.5	221.7	
15	380.6	283.1	173.4	179.8	266.2	957.8	439.5	296.7	185.4	181.4	251.4	219.4	
16	292.5	289.3	124.3	260.3	290.4	924.6	412.5	295.6	180.6	163.0	233.5	150.2	
17	295.6	264.2	127.1	270.1	220.8	768.0	374.6	287.2	221.0	175.0	164.6	217.9	
18	330.5	267.2	171.0	278.0	170.2	657.7	341.5	332.7	255.3	164.6	217.9	232.5	
19	369.8	296.7	131.3	272.1	322.8	587.4	306.3	339.3	250.4	159.0	314.0	228.5	
20	397.5	311.8	118.0	161.4	379.4	539.9	263.2	263.2	244.5	218.5	325.0	239.5	
21	386.6	308.5	114.5	100.6	415.0	487.6	239.5	289.3	240.5	258.3	292.5	222.5	
22	384.2	297.8	120.8	161.4	456.4	402.5	263.2	281.0	216.8	255.3	260.3	219.7	
23	387.8	274.1	101.3	268.2	426.5	351.8	278.0	274.1	163.0	240.5	254.3	220.8	
24	400.0	292.5	105.1	258.3	337.1	327.2	310.7	260.3	162.2	239.5	275.1	263.2	
25	400.0	242.5	147.0	257.3	279.0	373.4	363.8	254.3	162.2	220.0	280.0	307.4	
26	378.2	221.9	119.4	249.4	375.8	502.1	316.2	274.1	163.8	179.0	247.4	320.6	
27	361.4	259.3	120.1	184.6	460.3	604.2	338.2	298.8	173.4	218.3	222.0	328.3	
28	365.0	258.3	146.2	135.5	372.2	628.7	342.6	272.1	170.2	245.5	219.7	336.0	
29	299.9	222.0	144.6	218.2	521.0	657.7	420.0	270.1	154.2	274.1		328.3	
30	278.0	221.1	107.1	279.0	483.7	689.7	423.9	266.2	141.4	276.1		315.1	
31		270.1		279.0	371.0		442.1		139.0	262.2		334.9	
TOTAL	10473.1	8245.9	5472.4	6530.7	9764.7	17535.8	15516.1	9158.9	6613.7	6248.1	6908.3	7158.0	109625.7 CMSDAY
MEAN	349.1	266.0	182.4	210.7	315.0	584.5	500.5	305.3	213.3	201.6	246.7	230.9	300.3 CMS
MAX	408.8	311.8	379.4	279.0	521.0	1047.9	919.9	423.9	316.2	276.1	325.0	336.0	1047.9 CMS
MIN	257.3	218.2	101.3	88.9	114.5	311.8	239.5	254.3	139.0	137.6	164.6	150.2	88.9 CMS
RUNOFF	904.88	712.45	472.82	564.25	843.67	1515.09	1340.59	791.33	571.42	539.84	596.88	618.45	9471.66 MCM

MOMENTARY PEAK 1064.35 CMS, AT 35.19 M (MSL), AT 18.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 10.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 36.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

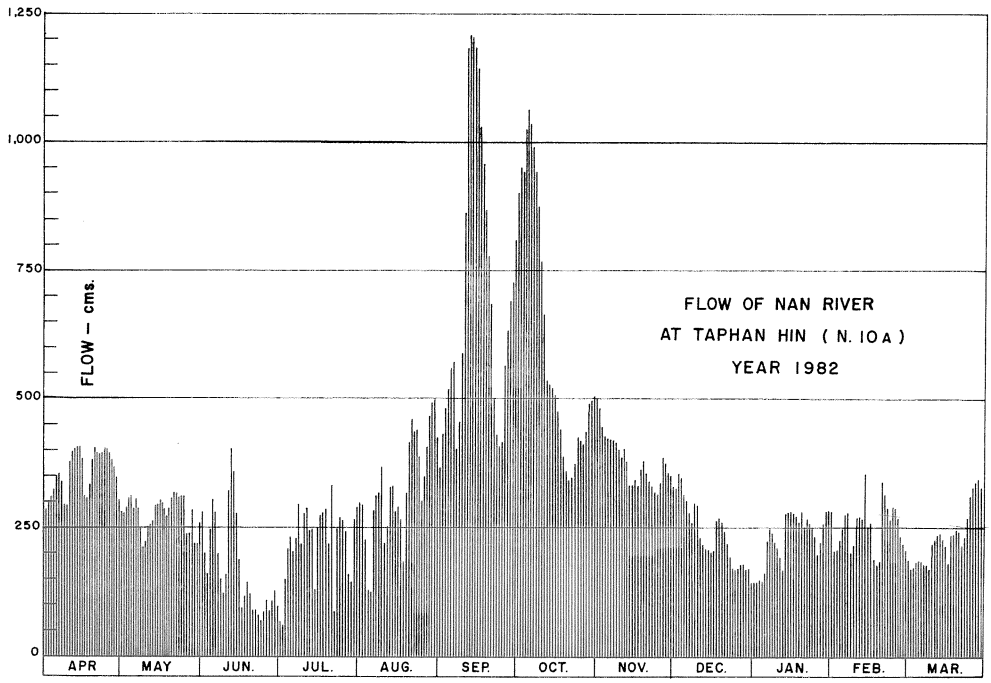
NAN RIVER AT TAPHAN HIN, PHICHIT (N.10A)

LOCATION	LAT. 16°-12'-42" N., LONG. 100°-25'-01" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREM FROM WAT THEVA PRASAT, TAMBON HUAI KET, AMPHOE TAPHAN HIN, PHICHIT.
DRAINAGE AREA	30,765 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+22.280 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+33.30 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974-1979
RATED BY FLOAT	-
RATED BY CURRENT METER	1974-1979
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 497 DISCHARGE MEASUREMENTS MADE DURING 1974-1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.55	25.49	25.56	23.34	25.70	26.32	29.82	27.45	25.96	24.20	25.27	24.80	
2	25.70	25.56	24.84	23.24	25.66	26.70	30.25	27.22	25.95	24.24	24.82	24.51	
3	25.79	25.77	24.35	23.98	24.94	27.21	30.22	27.01	26.22	24.25	24.87	24.43	
4	25.91	25.83	25.13	24.88	24.05	27.45	30.42	26.85	26.15	24.23	25.11	24.60	
5	26.14	25.56	25.77	25.07	23.99	27.81	30.76	26.78	25.83	24.25	25.27	24.64	
6	26.20	25.79	25.44	24.79	25.41	27.91	30.70	26.77	25.71	24.47	25.50	24.68	
7	26.08	25.57	24.90	24.02	25.82	27.09	30.48	26.76	25.50	25.03	25.56	24.58	
8	25.62	25.18	24.47	23.68	25.88	26.63	30.30	26.75	25.35	25.25	25.21	24.62	
9	25.61	24.87	23.97	24.97	25.84	27.37	30.05	26.67	25.24	25.01	24.78	24.46	
10	26.38	24.99	24.32	25.46	25.44	28.91	29.56	26.47	25.22	24.89	25.07	24.52	
11	26.56	25.28	25.74	25.60	24.98	30.30	28.88	26.52	25.15	24.84	25.44	24.98	
12	26.60	25.30	26.59	25.56	25.42	31.25	28.27	26.63	25.01	24.51	25.46	25.09	
13	26.62	25.51	26.24	25.17	25.99	31.39	27.68	26.26	24.93	24.38	25.41	25.16	
14	26.63	25.68	25.61	24.33	26.01	31.36	27.61	26.00	24.88	24.55	26.21	25.10	
15	26.43	25.64	24.96	24.06	25.55	31.28	27.57	26.02	24.81	24.67	25.29	25.05	
16	25.85	25.73	24.22	25.30	25.66	31.06	27.44	26.10	24.79	24.65	25.36	24.91	
17	25.77	25.65	23.69	25.52	25.40	30.57	27.19	26.02	24.88	24.58	24.70	24.58	
18	26.02	25.47	24.01	25.55	24.64	30.14	26.94	26.20	25.38	24.48	24.54	25.12	
19	26.37	25.59	24.22	25.60	25.44	29.70	26.69	26.42	25.44	24.40	25.55	25.13	
20	26.59	25.76	23.81	24.98	26.42	29.32	26.34	26.23	25.38	24.59	26.07	25.24	
21	26.49	25.88	23.54	24.07	27.08	28.64	26.12	26.12	25.20	25.27	25.87	25.20	
22	26.50	25.87	23.62	23.57	26.87	27.46	26.13	26.01	24.97	25.44	25.60	24.98	
23	26.52	25.77	23.55	25.15	26.93	26.87	26.30	25.93	24.68	25.31	25.38	24.94	
24	26.61	25.80	23.31	25.44	26.35	26.60	26.46	25.82	24.49	25.29	25.53	25.23	
25	26.59	25.54	23.60	25.42	25.71	26.68	26.79	25.86	24.47	25.11	25.66	25.73	
26	26.44	25.11	23.84	25.36	26.04	27.44	26.71	26.21	24.48	24.75	25.53	25.95	
27	26.34	25.16	23.59	25.08	26.78	28.23	26.68	26.46	24.57	24.74	25.17	26.04	
28	26.33	25.58	23.78	24.37	27.19	28.52	27.04	26.34	24.59	25.09	25.02	26.10	
29	25.84	24.98	24.03	24.19	27.36	28.74	27.32	26.20	24.46	25.47		26.12	
30	25.59	24.93	23.81	25.40	27.37	29.02	27.41	26.18	24.48	25.59		25.97	
31		25.31		25.65	26.95		27.46		24.20	25.54		26.05	
MEAN	26.19	25.49	24.48	24.80	25.90	28.60	28.12	26.41	25.11	24.81	25.33	25.11	
MAX	26.63	25.88	26.59	25.65	27.37	31.39	30.76	27.45	26.22	25.59	26.21	26.12	31.39
MIN	25.55	24.87	23.31	23.24	23.99	26.32	26.12	25.82	24.20	24.20	24.54	24.43	23.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 31.40 M (MSL), AT 22.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 22.28 M (MSL), RIVER BED 21.12 M (MSL)
LEFT BANK ELEVATION 33.18 M (MSL)
RIGHT BANK ELEVATION 32.98 M (MSL), DRAINAGE AREA 30765 SQUARE KILOMETERS



DISCHARGE IN CUBIC METER PER SECOND WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	283.5	276.9	284.6	70.8	300.0	370.4	871.6	507.5	328.6	143.7	252.7	202.0	
2	300.0	284.6	206.0	63.8	295.6	416.0	949.5	478.4	327.5	147.4	204.0	173.0	
3	309.9	307.7	157.4	123.6	216.4	477.2	943.8	453.2	358.4	148.3	209.0	165.0	
4	323.1	314.3	237.3	210.0	130.0	507.5	983.2	434.0	350.0	146.5	235.1	182.0	
5	348.8	284.6	307.7	230.7	124.5	556.4	1056.8	425.6	314.3	148.3	252.7	186.0	
6	356.0	309.9	271.4	201.0	268.1	570.4	1043.0	424.4	301.1	169.0	278.0	190.0	
7	341.8	285.7	212.0	127.3	313.2	462.8	995.8	423.2	278.0	226.3	284.6	180.0	
8	291.2	242.8	169.0	96.4	319.8	407.6	959.0	422.0	261.5	250.5	246.1	184.0	
9	290.1	209.0	122.7	219.7	315.4	497.1	913.0	412.4	249.4	224.1	200.0	168.0	
10	377.6	221.9	154.7	273.6	271.4	719.6	826.2	388.4	247.2	211.0	230.7	174.0	
11	399.2	253.8	304.4	289.0	220.8	959.0	715.0	394.4	239.5	206.0	271.4	220.8	
12	404.0	256.0	402.8	284.6	269.2	1174.0	623.5	407.6	224.1	173.0	273.6	232.9	
13	406.4	279.1	360.8	241.7	331.9	1207.6	538.2	363.2	215.3	160.2	268.1	240.6	
14	407.6	297.8	290.1	155.6	334.1	1200.4	528.4	333.0	210.0	177.0	357.2	234.0	
15	383.6	293.4	218.6	130.9	283.5	1181.2	523.1	335.2	203.0	189.0	254.9	228.5	
16	316.5	303.3	145.5	256.0	295.6	1128.4	506.2	344.0	201.0	187.0	262.6	213.1	
17	307.7	294.5	97.2	280.2	267.0	1014.7	474.8	335.2	210.0	180.0	192.0	180.0	
18	335.2	274.7	126.3	283.5	186.0	929.2	444.8	356.0	264.8	170.0	176.0	236.2	
19	376.4	287.9	145.5	289.0	271.4	850.0	414.8	382.4	271.4	162.0	283.5	237.3	
20	402.8	306.6	108.1	220.8	382.4	785.4	372.8	359.6	264.8	181.0	340.7	249.4	
21	390.8	319.8	85.2	131.8	461.6	679.0	346.4	346.4	245.0	252.7	318.7	245.0	
22	392.0	318.7	91.6	87.6	436.4	508.8	347.6	334.1	219.7	271.4	289.0	220.8	
23	394.4	307.7	86.0	239.5	443.6	436.4	368.0	325.3	190.0	257.1	264.8	216.4	
24	405.2	311.0	68.7	271.4	374.0	404.0	387.2	313.2	171.0	254.9	281.3	248.3	
25	402.8	282.4	90.0	269.2	301.1	413.6	426.8	317.6	169.0	235.1	295.6	303.3	
26	384.8	235.1	110.8	262.6	337.4	506.2	417.2	357.2	170.0	197.0	281.3	327.5	
27	372.8	240.6	89.2	231.8	425.6	617.5	413.6	387.2	179.0	196.0	241.7	337.4	
28	371.6	286.8	105.3	159.3	474.8	661.0	456.8	372.8	181.0	232.9	225.2	344.0	
29	315.4	220.8	128.2	142.8	495.8	694.0	490.6	356.0	168.0	274.7		346.4	
30	287.9	215.3	108.1	267.0	497.1	737.2	502.3	353.6	170.0	287.9		329.7	
31		257.1		294.5	446.0		508.8		143.7	282.4		338.5	
TOTAL	10679.1	8579.8	5285.2	6405.7	10089.7	21072.6	19348.8	11443.1	7326.3	6342.4	7270.5	7334.1	121177.3 CMSDAY
MEAN	356.0	276.8	176.2	206.6	325.5	702.4	624.2	381.4	236.3	204.6	259.7	236.6	332.0 CMS
MAX	407.6	319.8	402.8	294.5	497.1	1207.6	1056.8	507.5	358.4	287.9	357.2	346.4	1207.6 CMS
MIN	283.5	209.0	68.7	63.8	124.5	370.4	346.4	313.2	143.7	143.7	176.0	165.0	63.8 CMS
RUNOFF	922.67	741.29	456.64	553.45	871.75	1820.67	1671.74	988.68	632.99	547.98	628.17	633.67	10469.72 MCM

MOMENTARY PEAK 1210.00 CMS, AT 31.40 M (MSL), AT 22.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 10.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 39.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

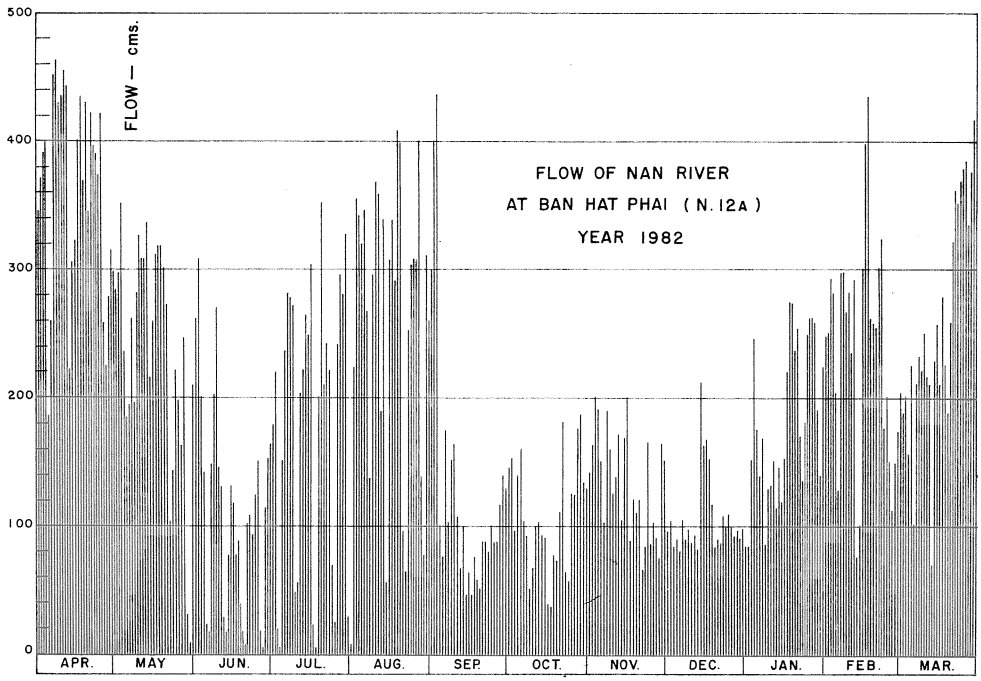
NAN RIVER AT BAN HAT PHAI, UTTARADIT (N.12A)

LOCATION	LAT. 17-44-10 N., LONG. 100-32-28 E., ON RIGHT BANK ABOUT 4 KILOMETERS DOWNSTREAM FROM SIRIKIT DAM SITE, ALONG PHASOM-SILOT ROAD AT BAN HAT PHAI, AMPHOE THA PHA, UTTARADIT.
DRAINAGE AREA	15,718 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+69.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	B.M.1=+84.00 M. (M.S.L.), B.M.2=+83.655 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 112 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	72.48	72.11	72.04	71.45	69.56	72.16	71.17	71.13	70.78	70.63	71.92	71.63	
2	72.72	72.20	72.27	71.74	72.03	72.76	71.26	71.22	70.75	70.64	71.93	71.52	
3	72.77	72.51	71.69	69.85	72.53	72.94	70.76	71.43	70.84	71.14	72.19	71.62	
4	72.55	71.81	71.05	69.51	72.42	70.96	71.13	71.62	70.65	71.90	72.05	71.28	
5	71.52	71.51	69.88	71.64	72.34	70.55	71.22	71.46	70.68	71.53	71.70	71.77	
6	72.47	71.57	69.73	71.86	72.47	71.43	71.35	71.18	70.60	71.16	71.06	70.81	
7	73.02	72.00	71.23	72.11	71.68	70.83	70.85	70.83	70.85	71.38	72.20	71.68	
8	73.08	71.59	71.70	72.08	71.14	71.23	70.72	71.52	70.70	70.99	72.21	71.81	
9	72.92	72.12	72.05	72.06	72.20	71.35	70.25	71.29	70.72	70.65	72.03	71.75	
10	72.96	72.37	71.22	70.20	72.60	71.25	70.42	71.05	70.79	71.06	72.12	71.93	
11	73.04	72.27	71.05	70.33	72.56	70.69	70.80	71.13	70.67	71.09	71.84	71.75	
12	72.88	72.27	69.95	71.64	71.53	70.44	70.82	71.40	70.72	71.25	72.03	71.68	
13	71.75	72.42	69.73	71.76	72.44	70.80	70.81	71.31	70.62	70.95	72.18	70.48	
14	72.25	71.72	70.75	72.01	71.00	70.19	70.72	70.85	71.02	71.21	70.56	71.79	
15	72.38	71.93	71.10	71.92	70.30	70.40	70.71	71.38	71.69	70.99	70.92	71.97	
16	72.76	72.28	70.66	72.24	72.24	70.22	70.06	71.61	71.36	71.24	72.64	71.68	
17	72.94	72.33	70.56	69.84	72.43	70.12	70.04	70.67	71.38	71.60	72.93	72.10	
18	72.60	72.32	70.66	69.51	72.15	70.54	70.56	71.00	71.24	72.07	72.00	71.87	
19	72.92	72.24	69.89	71.71	72.80	70.32	70.54	70.90	70.78	72.07	71.99	71.53	
20	72.48	72.15	69.54	72.51	72.70	70.25	70.49	70.99	70.62	71.84	71.96	71.75	
21	72.88	71.99	70.81	71.68	70.75	70.68	70.93	70.52	70.70	71.95	72.20	72.06	
22	72.75	70.85	70.89	71.88	70.41	70.56	71.48	70.41	70.67	71.41	72.34	72.56	
23	72.73	71.29	70.72	71.75	71.93	70.49	70.43	70.72	70.87	71.13	71.96	72.51	
24	72.63	71.76	71.02	70.50	72.24	70.78	70.32	71.36	70.80	71.39	71.45	72.58	
25	72.87	71.62	71.25	69.88	72.27	70.65	71.04	70.66	70.88	71.91	71.61	72.63	
26	72.12	71.34	69.80	71.62	72.26	70.66	71.03	70.81	70.79	72.00	71.26	72.68	
27	71.78	71.42	69.52	72.19	72.76	70.95	71.13	70.63	70.72	72.01	70.93	72.34	
28	72.01	71.91	70.92	72.12	71.21	70.99	71.45	70.54	70.72	71.98	71.19	72.64	
29	72.31	69.94	71.27	72.38	70.56	71.16	71.52	71.35	70.76	71.55		72.74	
30	72.18	69.58	71.32	72.08	72.28	71.09	71.13	71.23	70.67	71.16		72.86	
31		71.69		69.92	71.99		71.07		70.76	71.75		72.31	
MEAN	72.56	71.78	70.81	71.35	71.86	70.91	70.85	71.07	70.83	71.41	71.84	71.95	
MAX	73.08	72.51	72.27	72.51	72.80	72.94	71.52	71.62	71.69	72.07	72.93	72.86	73.08
MIN	71.52	69.58	69.52	69.51	69.56	70.12	70.04	70.41	70.60	70.63	70.56	70.48	69.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 73.73 M (MSL), AT 17.00 HOURS, ON APR 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 69.00 M (MSL), RIVER BED 67.57 M (MSL)
LEFT BANK ELEVATION 85.11 M (MSL)
RIGHT BANK ELEVATION 83.80 M (MSL), DRAINAGE AREA 15718 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	346.9	281.3	269.3	177.7	8.0	290.0	141.4	136.6	98.5	83.8	248.9	203.3	
2	391.8	297.0	309.2	219.9	267.6	399.4	152.5	147.5	95.5	84.8	250.6	187.4	
3	401.3	352.4	212.1	24.0	356.0	435.0	96.5	175.0	104.5	137.8	295.3	201.9	
4	359.8	231.1	127.0	5.5	336.1	116.8	136.6	201.9	85.8	245.5	271.0	155.0	
5	187.4	186.0	25.8	204.8	321.7	76.3	147.5	179.1	88.6	188.8	213.5	224.7	
6	345.1	194.7	17.2	239.1	345.1	175.0	164.2	142.6	81.0	140.2	128.2	101.5	
7	451.0	262.5	148.8	281.3	210.6	103.5	105.5	103.5	105.5	168.3	297.0	210.6	
8	463.0	197.5	213.5	276.1	137.8	148.8	92.5	187.4	90.5	119.9	298.7	231.1	
9	431.0	283.0	271.0	272.7	297.0	164.2	51.5	156.2	92.5	85.8	267.6	221.5	
10	439.0	327.1	147.5	47.5	369.0	151.3	65.1	127.0	99.5	128.2	283.0	250.6	
11	455.0	309.2	127.0	57.9	361.6	89.6	100.5	136.6	87.7	131.8	235.9	221.5	
12	423.0	309.2	30.2	204.8	188.8	66.7	102.5	171.0	92.5	151.3	267.6	210.6	
13	221.5	336.1	17.2	223.1	339.7	100.5	101.5	158.8	82.9	115.7	293.5	69.9	
14	305.7	216.7	95.5	264.2	121.0	46.8	92.5	105.5	123.4	146.3	77.2	227.9	
15	328.9	250.6	133.0	248.9	55.5	63.5	91.5	168.3	212.1	119.9	112.6	257.4	
16	399.4	311.0	86.7	304.0	304.0	49.1	37.7	200.5	165.6	150.0	376.6	210.6	
17	435.0	319.9	77.2	23.4	337.9	41.9	36.3	87.7	168.3	199.0	433.0	279.5	
18	369.0	318.1	86.7	5.5	288.3	75.3	77.2	121.0	150.0	274.4	262.5	240.7	
19	431.0	304.0	26.4	215.1	407.0	57.1	75.3	110.5	98.5	274.4	260.8	188.8	
20	346.9	288.3	7.0	352.4	388.0	51.5	70.7	119.9	82.9	235.9	255.7	221.5	
21	423.0	260.8	101.5	210.6	95.5	88.6	113.6	73.4	90.5	254.0	297.0	272.7	
22	397.5	105.5	109.5	242.3	64.3	77.2	181.8	64.3	87.7	172.4	321.7	361.6	
23	393.7	156.2	92.5	221.5	250.6	70.7	65.9	92.5	107.5	136.6	255.7	352.4	
24	374.7	223.1	123.4	71.5	304.0	98.5	57.1	165.6	100.5	169.6	177.7	365.3	
25	421.0	201.9	151.3	25.8	309.2	85.8	125.8	86.7	108.5	247.2	200.5	374.7	
26	283.0	162.9	21.0	201.9	307.5	86.7	124.6	101.5	99.5	262.5	152.5	384.2	
27	226.3	173.7	6.0	295.3	399.4	115.7	136.6	83.8	92.5	264.2	113.6	321.7	
28	264.2	247.2	112.6	283.0	146.3	119.9	177.7	75.3	92.5	259.1	143.8	376.6	
29	316.3	29.6	153.7	328.9	77.2	140.2	187.4	164.2	96.5	191.8		395.6	
30	293.5	9.0	160.2	276.1	311.0	131.8	136.6	148.8	87.7	140.2		419.0	
31		212.1		28.3	260.8		129.4		96.5	221.5		316.3	
TOTAL	10924.9	7357.7	3460.0	5833.1	7966.5	3717.4	3375.5	3992.7	3265.7	5500.9	6791.7	8056.1	70242.2 CMSDAY
MEAN	364.2	237.3	115.3	188.2	257.0	123.9	108.9	133.1	105.3	177.4	242.6	259.9	192.4 CMS
MAX	463.0	352.4	309.2	352.4	407.0	435.0	187.4	201.9	212.1	274.4	433.0	419.0	463.0 CMS
MIN	187.4	9.0	6.0	5.5	8.0	41.9	36.3	64.3	81.0	83.8	77.2	69.9	5.5 CMS
RUNOFF	943.91	635.71	298.94	503.98	688.31	321.18	291.64	344.97	282.16	475.28	586.80	696.05	6068.93 MCM

MOMENTARY PEAK 597.30 CMS, AT 73.73 M (MSL), AT 17.00 HOURS, ON APR 9, 1982

RUNOFF YIELD 12.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 38.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

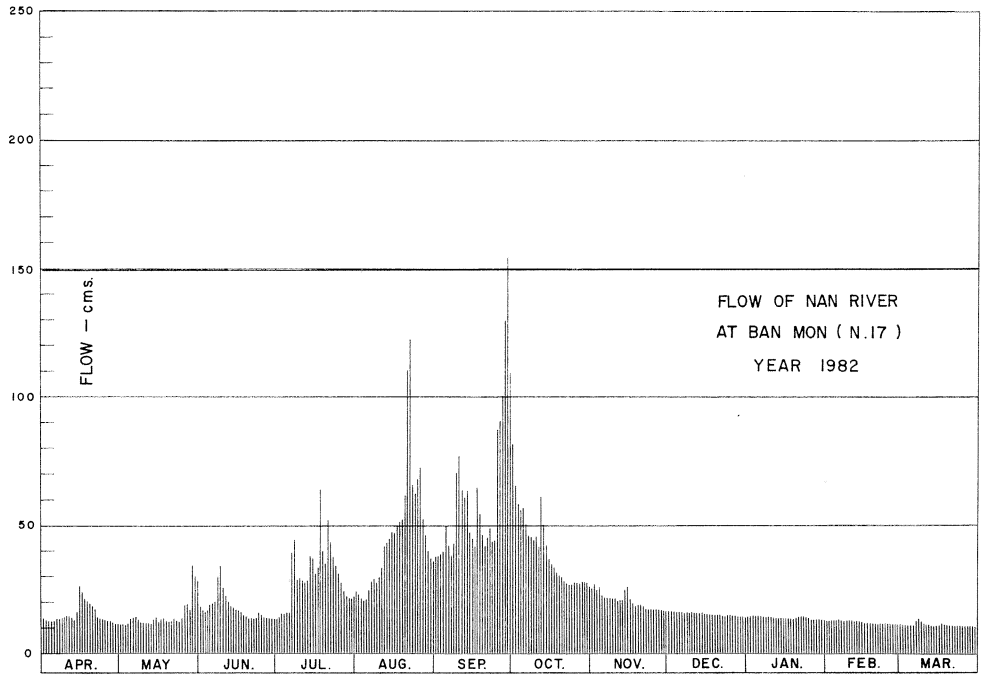
NAN RIVER AT BAN MON, NAN (N.17)

LOCATION	LAT. 19°-24'-34" N., LONG. 100°-52'-05" E., ON LEFT BANK AT BAN MON, AMPHOE THUNG CHANG, NAN.
DRAINAGE AREA	1,156 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+13.390 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1973
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 535 DISCHARGE MEASUREMENTS MADE DURING 1969-1971, 1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.79	0.72	0.96	0.79	1.05	1.34	2.01	1.08	0.88	0.80	0.76	0.70	
2	0.77	0.72	0.89	0.80	1.04	1.34	1.80	1.12	0.88	0.80	0.76	0.70	
3	0.76	0.72	0.85	0.84	0.99	1.36	1.68	1.06	0.87	0.80	0.76	0.70	
4	0.75	0.71	0.87	0.83	0.97	1.38	1.64	1.09	0.87	0.81	0.76	0.70	
5	0.74	0.79	0.94	0.84	0.98	1.55	1.67	1.03	0.86	0.81	0.75	0.69	
6	0.77	0.80	0.95	0.85	1.07	1.42	1.58	1.01	0.86	0.81	0.75	0.69	
7	0.78	0.81	0.97	1.37	1.14	1.35	1.49	1.01	0.85	0.80	0.75	0.76	
8	0.79	0.79	1.17	1.46	1.16	1.44	1.48	1.00	0.85	0.80	0.75	0.78	
9	0.79	0.75	1.28	1.15	1.13	1.85	1.47	1.00	0.85	0.79	0.75	0.76	
10	0.81	0.74	1.11	1.18	1.17	1.93	1.48	0.99	0.84	0.79	0.75	0.71	
11	0.80	0.73	1.04	1.16	1.26	1.77	1.42	0.98	0.84	0.79	0.75	0.70	
12	0.80	0.73	0.97	1.13	1.42	1.72	1.72	0.98	0.84	0.79	0.75	0.70	
13	0.77	0.73	0.92	1.14	1.43	1.75	1.58	0.98	0.84	0.78	0.74	0.70	
14	0.85	0.78	0.91	1.34	1.46	1.51	1.43	1.06	0.84	0.78	0.74	0.69	
15	1.11	0.81	0.90	1.32	1.50	1.49	1.35	1.10	0.83	0.78	0.74	0.70	
16	1.07	0.76	0.89	1.22	1.50	1.42	1.29	1.03	0.83	0.78	0.73	0.70	
17	0.99	0.77	0.88	1.25	1.54	1.77	1.28	0.94	0.83	0.78	0.73	0.72	
18	0.98	0.78	0.83	1.76	1.57	1.67	1.22	0.93	0.83	0.78	0.72	0.71	
19	0.96	0.76	0.82	1.40	1.58	1.50	1.20	0.94	0.83	0.78	0.72	0.70	
20	0.93	0.76	0.80	1.29	1.75	1.41	1.19	0.93	0.83	0.78	0.72	0.70	
21	0.88	0.75	0.80	1.58	2.32	1.46	1.16	0.93	0.83	0.79	0.72	0.70	
22	0.81	0.78	0.78	1.46	2.43	1.53	1.13	0.91	0.82	0.81	0.72	0.69	
23	0.79	0.77	0.79	1.39	1.79	1.45	1.12	0.90	0.82	0.81	0.72	0.69	
24	0.78	0.76	0.85	1.31	1.74	1.45	1.12	0.89	0.82	0.78	0.71	0.69	
25	0.77	0.80	0.83	1.24	1.82	2.05	1.14	0.89	0.82	0.78	0.71	0.69	
26	0.75	0.92	0.80	1.17	1.87	2.09	1.14	0.89	0.82	0.77	0.71	0.68	
27	0.75	0.94	0.80	1.09	1.62	2.19	1.13	0.89	0.81	0.77	0.71	0.68	
28	0.74	0.87	0.80	1.05	1.52	2.55	1.14	0.89	0.81	0.77	0.70	0.68	
29	0.73	1.27	0.80	0.99	1.42	2.73	1.13	0.89	0.80	0.77		0.67	
30	0.72	1.19	0.78	1.00	1.34	2.38	1.13	0.88	0.80	0.77		0.67	
31		1.17		0.99	1.31		1.12		0.80	0.76		0.67	
MEAN	0.82	0.82	0.90	1.17	1.45	1.69	1.37	0.97	0.84	0.79	0.73	0.70	
MAX	1.11	1.27	1.28	1.76	2.43	2.73	2.01	1.12	0.88	0.81	0.76	0.78	2.73
MIN	0.72	0.71	0.78	0.79	0.97	1.34	1.12	0.88	0.80	0.76	0.70	0.67	0.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.36 M (A.D), AT 19.00 HOURS, ON AUG 21, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.21 M (A.D)
LEFT BANK ELEVATION 13.41 M (A.D)
RIGHT BANK ELEVATION 11.97 M (A.D), DRAINAGE AREA 1156 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.70	11.60	19.90	13.70	23.75	37.50	83.35	25.10	16.80	14.00	12.80	11.00	
2	13.10	11.60	17.15	14.00	23.30	37.50	66.50	26.90	16.80	14.00	12.80	11.00	
3	12.80	11.60	15.75	15.40	21.10	38.50	58.20	24.20	16.45	14.00	12.80	11.00	
4	12.50	11.30	16.45	15.05	20.30	39.50	55.60	25.55	16.45	14.35	12.80	11.00	
5	12.20	13.70	19.10	15.40	20.70	49.75	57.55	22.85	16.10	14.35	12.50	10.70	
6	13.10	14.00	19.50	15.75	24.65	41.70	51.70	21.95	16.10	14.35	12.50	10.70	
7	13.40	14.35	20.30	39.00	27.80	38.00	45.90	21.95	15.75	14.00	12.50	12.80	
8	13.70	13.70	29.15	44.10	28.70	42.90	45.30	21.50	15.75	14.00	12.50	13.40	
9	13.70	12.50	34.50	28.25	27.35	70.50	44.70	21.50	15.75	13.70	12.50	12.80	
10	14.35	12.20	26.45	29.60	29.15	76.90	45.30	21.10	15.40	13.70	12.50	11.30	
11	14.00	11.90	23.30	28.70	33.50	64.40	41.70	20.70	15.40	13.70	12.50	11.00	
12	14.00	11.90	20.30	27.35	41.70	60.90	60.90	20.70	15.40	13.70	12.50	11.00	
13	13.10	11.90	18.30	27.80	42.30	63.00	51.70	20.70	15.40	13.40	12.20	11.00	
14	15.75	13.40	17.90	37.50	44.10	47.15	42.30	24.20	15.40	13.40	12.20	10.70	
15	26.45	14.35	17.50	36.50	46.50	45.90	38.00	26.00	15.05	13.40	12.20	11.00	
16	24.65	12.80	17.15	31.50	46.50	41.70	35.00	22.85	15.05	13.40	11.90	11.00	
17	21.10	13.10	16.80	33.00	49.10	64.40	34.50	19.10	15.05	13.40	11.90	11.60	
18	20.70	13.40	15.05	63.70	51.05	57.55	31.50	18.70	15.05	13.40	11.60	11.30	
19	19.90	12.80	14.70	40.50	51.70	46.50	30.50	19.10	15.05	13.40	11.60	11.00	
20	18.70	12.80	14.00	35.00	63.00	41.10	30.05	18.70	15.05	13.40	11.60	11.00	
21	16.80	12.50	14.00	51.70	111.00	44.10	28.70	18.70	15.05	13.70	11.60	11.00	
22	14.35	13.40	13.40	44.10	122.00	48.45	27.35	17.90	14.70	14.35	11.60	10.70	
23	13.70	13.10	13.70	40.00	65.80	43.50	26.90	17.50	14.70	14.35	11.60	10.70	
24	13.40	12.80	15.75	36.00	62.30	43.50	26.90	17.15	14.70	13.40	11.30	10.70	
25	13.10	14.00	15.05	32.50	68.10	86.75	27.80	17.15	14.70	13.40	11.30	10.70	
26	12.50	18.30	14.00	29.15	72.10	90.15	27.80	17.15	14.70	13.10	11.30	10.40	
27	12.50	19.10	14.00	25.55	54.30	99.10	27.35	17.15	14.35	13.10	11.30	10.40	
28	12.20	16.45	14.00	23.75	47.80	134.00	27.80	17.15	14.35	13.10	11.00	10.40	
29	11.90	34.00	14.00	21.10	41.70	153.30	27.35	17.15	14.00	13.10		10.10	
30	11.60	30.05	13.40	21.50	37.50	117.00	27.35	16.80	14.00	13.10		10.10	
31		29.15		21.10	36.00		26.90		14.00	12.80		10.10	
TOTAL	452.95	467.75	534.55	938.25	1434.85	1865.20	1252.45	617.15	472.50	422.55	337.40	341.60	9137.20 CMSDAY
MEAN	15.10	15.09	17.82	30.27	46.29	62.17	40.40	20.57	15.24	13.63	12.05	11.02	25.03 CMS
MAX	26.45	34.00	34.50	63.70	122.00	153.30	83.35	26.90	16.80	14.35	12.80	13.40	153.30 CMS
MIN	11.60	11.30	13.40	13.70	20.30	37.50	26.90	16.80	14.00	12.80	11.00	10.10	10.10 CMS
RUNOFF	39.135	40.414	46.185	81.065	123.971	161.153	108.212	53.322	40.824	36.508	29.151	29.514	789.454 MCM

MOMENTARY PEAK 225.20 CMS, AT 3.36 M (A.D), AT 19.00 HOURS, ON AUG 21, 1982

RUNOFF YIELD 21.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 194.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

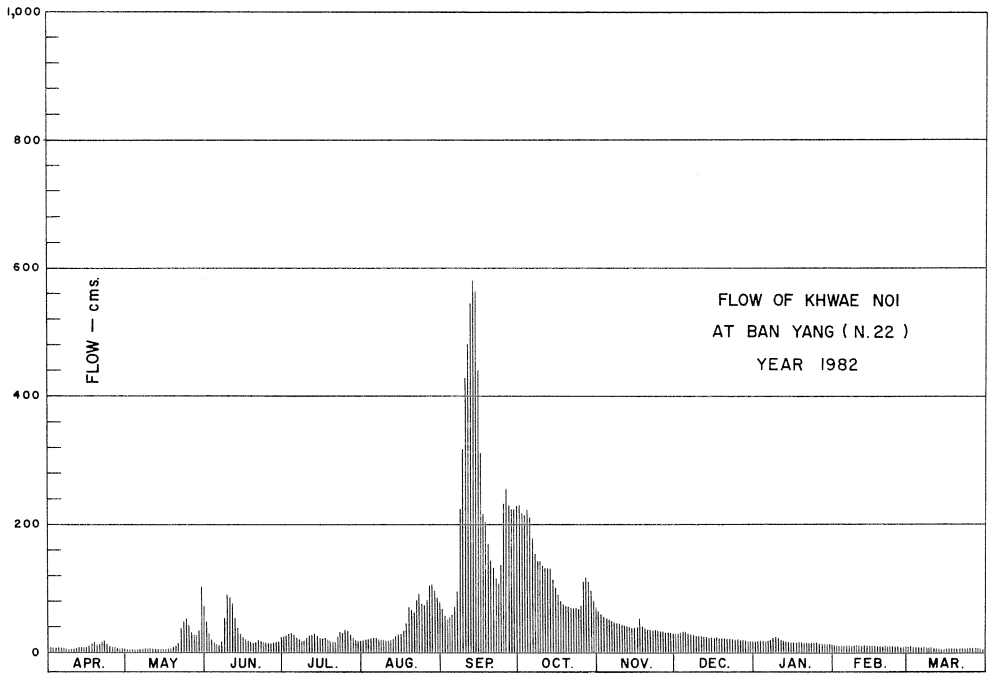
KHWAE NOI RIVER AT BAN YANG, PHITSANULOK (N.22)

LOCATION	LAT. 17°-01'-57" N., LONG. 100°-22'-23" E., ON LEFT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM DISTRICT FORESTRY OFFICE, AMPHOE WAT BOT, PHITSANULOK.
DRAINAGE AREA	4,841 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+43.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 15 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+52.509 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1963 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1963 - 1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1963 - 1974
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1,322 DISCHARGE MEASUREMENTS MADE DURING 1967-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	43.87	43.74	44.96	44.46	44.28	45.42	47.92	45.42	44.58	44.28	44.11	43.93	
2	43.87	43.72	44.61	44.51	44.32	45.24	47.74	45.31	44.59	44.27	44.05	43.92	
3	43.86	43.72	44.35	44.58	44.36	45.13	47.71	45.23	44.63	44.27	44.03	43.92	
4	43.86	43.72	44.20	44.61	44.35	45.19	47.80	45.18	44.69	44.27	44.03	43.93	
5	43.85	43.71	44.10	44.54	44.41	45.26	47.67	45.13	44.64	44.28	44.03	43.93	
6	43.83	43.73	44.06	44.43	44.41	45.60	47.34	45.09	44.60	44.27	44.03	43.93	
7	43.78	43.76	44.22	44.35	44.34	45.94	47.03	45.06	44.57	44.30	44.03	43.91	
8	43.77	43.79	45.19	44.27	44.28	47.27	46.74	45.02	44.53	44.38	44.03	43.90	
9	43.74	43.86	45.85	44.24	44.26	48.73	46.73	44.97	44.51	44.45	44.01	43.89	
10	43.75	43.86	45.82	44.40	44.26	49.82	46.65	44.94	44.50	44.42	44.01	43.88	
11	43.78	43.80	45.62	44.49	44.27	50.18	46.55	44.91	44.48	44.33	44.01	43.89	
12	43.88	43.79	45.26	44.48	44.30	50.59	46.56	44.88	44.46	44.28	44.01	43.89	
13	43.94	43.76	44.86	44.57	44.38	50.77	46.54	44.84	44.45	44.27	44.01	43.89	
14	43.90	43.73	44.67	44.49	44.50	50.65	46.36	44.83	44.44	44.26	44.00	43.89	
15	43.90	43.72	44.44	44.38	44.51	49.86	46.12	44.85	44.42	44.24	44.00	43.88	
16	44.01	43.73	44.32	44.34	44.55	48.64	45.91	45.06	44.41	44.23	44.00	43.87	
17	44.14	43.73	44.27	44.36	44.69	47.77	45.76	45.16	44.40	44.22	44.00	43.86	
18	44.16	43.76	44.22	44.32	45.12	47.53	45.63	44.93	44.38	44.22	44.00	43.86	
19	44.10	43.89	44.16	44.25	45.55	47.03	45.55	44.82	44.38	44.21	44.00	43.85	
20	44.00	43.96	44.17	44.19	45.43	46.78	45.50	44.77	44.37	44.19	44.00	43.85	
21	44.16	44.20	44.30	44.17	45.36	46.59	45.49	44.74	44.36	44.19	44.01	43.86	
22	44.29	44.75	44.26	44.38	45.71	46.37	45.48	44.72	44.34	44.18	44.01	43.86	
23	44.14	45.06	44.23	44.61	45.87	46.14	45.48	44.70	44.34	44.16	44.01	43.88	
24	44.03	45.17	44.20	44.59	45.61	46.63	45.47	44.67	44.33	44.15	44.01	43.88	
25	43.93	45.02	44.13	44.72	45.54	47.91	45.56	44.66	44.32	44.15	44.01	43.87	
26	43.88	44.66	44.12	44.72	45.70	48.18	46.20	44.66	44.32	44.15	44.00	43.85	
27	43.83	44.59	44.16	44.55	46.13	47.92	46.32	44.63	44.31	44.14	43.99	43.84	
28	43.80	44.48	44.19	44.44	46.15	47.84	46.21	44.61	44.31	44.14	43.98	43.83	
29	43.78	44.66	44.20	44.33	45.98	47.82	46.05	44.60	44.30	44.13		43.82	
30	43.76	46.08	44.41	44.27	45.81	47.91	45.79	44.58	44.29	44.13		43.82	
31		45.46		44.27	45.62		45.60		44.28	44.13		43.82	
MEAN	43.92	44.18	44.52	44.43	44.97	47.56	46.37	44.90	44.44	44.24	44.01	43.88	
MAX	44.29	46.08	45.85	44.72	46.15	50.77	47.92	45.42	44.69	44.45	44.11	43.93	50.77
MIN	43.74	43.71	44.06	44.17	44.26	45.13	45.47	44.58	44.28	44.13	43.98	43.82	43.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 50.80 M (MSL), AT 18.00 HOURS, ON SEP 13, 1982
ZERO GAGE AT BOTTOM ELEVATION 43.00 M (MSL), RIVER BED 41.56 M (MSL)
LEFT BANK ELEVATION 52.51 M (MSL)
RIGHT BANK ELEVATION 51.88 M (MSL), DRAINAGE AREA 4841 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.90	4.30	44.40	24.60	18.30	66.00	230.80	66.00	29.20	18.30	12.80	8.25	
2	6.90	3.90	30.40	26.40	19.70	57.00	216.20	60.50	29.60	17.95	11.25	8.00	
3	6.70	3.90	20.75	29.20	21.10	51.50	213.80	56.50	31.20	17.95	10.75	8.00	
4	6.70	3.90	15.50	30.40	20.75	54.50	221.00	54.00	33.60	17.95	10.75	8.25	
5	6.50	3.70	12.50	27.60	22.85	58.00	210.60	51.50	31.60	18.30	10.75	8.25	
6	6.10	4.10	11.50	23.55	22.85	75.00	184.20	49.60	30.00	17.95	10.75	8.25	
7	5.10	4.70	16.20	20.75	20.40	94.40	162.10	48.40	28.80	19.00	10.75	7.75	
8	4.90	5.30	54.50	17.95	18.30	178.90	143.10	46.80	27.20	21.80	10.75	7.50	
9	4.30	6.70	89.00	16.90	17.60	305.00	142.45	44.80	26.40	24.25	10.25	7.30	
10	4.50	6.70	87.20	22.50	17.60	431.60	137.25	43.60	26.00	23.20	10.25	7.10	
11	5.10	5.50	76.10	25.65	17.95	482.00	131.00	42.40	25.30	20.05	10.25	7.30	
12	7.10	5.30	58.00	25.30	19.00	546.31	131.60	41.20	24.60	18.30	10.25	7.30	
13	8.50	4.70	40.40	28.80	21.80	580.00	130.40	39.60	24.25	17.95	10.25	7.30	
14	7.50	4.10	32.80	25.65	26.00	557.00	119.60	39.20	23.90	17.60	10.00	7.30	
15	7.50	3.90	23.90	21.80	26.40	436.80	105.20	40.00	23.20	16.90	10.00	7.10	
16	10.25	4.10	19.70	20.40	28.00	296.00	92.60	48.40	22.85	16.55	10.00	6.90	
17	13.70	4.10	17.95	21.10	33.60	218.60	83.80	53.00	22.50	16.20	10.00	6.70	
18	14.30	4.70	16.20	19.70	51.00	199.40	76.65	43.20	21.80	16.20	10.00	6.70	
19	12.50	7.30	14.30	17.25	72.50	162.10	72.50	38.80	21.80	15.85	10.00	6.50	
20	10.00	9.00	14.60	15.20	66.50	145.70	70.00	36.80	21.45	15.20	10.00	6.50	
21	14.30	15.50	19.00	14.60	63.00	133.40	69.50	35.60	21.10	15.20	10.25	6.70	
22	18.65	36.00	17.60	21.80	81.05	120.20	69.00	34.80	20.40	14.90	10.25	6.70	
23	13.70	48.40	16.55	30.40	90.20	106.40	69.00	34.00	20.40	14.30	10.25	7.10	
24	10.75	53.50	15.50	29.60	75.55	135.95	68.50	32.80	20.05	14.00	10.25	7.10	
25	8.25	46.80	13.40	34.80	72.00	229.90	73.00	32.40	19.70	14.00	10.25	6.90	
26	7.10	32.40	13.10	34.80	80.50	254.20	110.00	32.40	19.70	14.00	10.00	6.50	
27	6.10	29.60	14.30	28.00	105.80	230.80	117.20	31.20	19.35	13.70	9.75	6.30	
28	5.50	25.30	15.20	23.90	107.00	224.20	110.60	30.40	19.35	13.70	9.50	6.10	
29	5.10	32.40	15.50	20.05	96.80	222.60	101.00	30.00	19.00	13.40		5.90	
30	4.70	102.80	22.85	17.95	86.60	229.90	85.45	29.20	18.65	13.40		5.90	
31		68.00		17.95	76.10		75.00		18.30	13.40		5.90	
TOTAL	249.20	590.60	858.90	734.55	1496.80	6883.36	3823.10	1267.10	741.25	521.45	290.30	219.35	17675.96 CMSDAY
MEAN	8.31	19.05	28.63	23.70	48.28	229.45	123.33	42.24	23.91	16.82	10.37	7.08	48.43 CMS
MAX	18.65	102.80	89.00	34.80	107.00	580.00	230.80	66.00	33.60	24.25	12.80	8.25	580.00 CMS
MIN	4.30	3.70	11.50	14.60	17.60	51.50	68.50	29.20	18.30	13.40	9.50	5.90	3.70 CMS
RUNOFF	21.531	51.028	74.209	63.465	129.324	594.722	330.316	109.477	64.044	45.053	25.082	18.952	1527.203 MCM

MOMENTARY PEAK 586.00 CMS, AT 50.80 M (MSL), AT 18.00 HOURS, ON SEP 13, 1982

RUNOFF YIELD 10.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 121.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

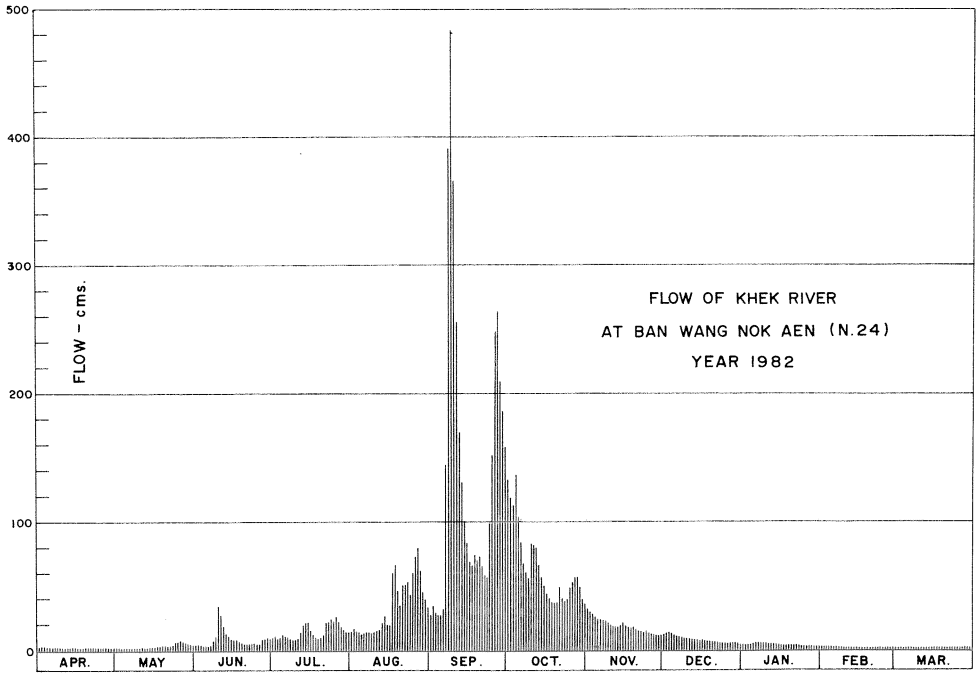
KHLONG KHEK AT BAN WANG NOK AEN, PHITSANULOK (N.24)

LOCATION	LAT. 16°-50'-35" N., LONG. 100°-31'-20" E., ON RIGHT BANK ABOUT 2 KILOMETERS DOWNSTREAM FROM SAKUNOTHAYAN FALL, AMPHOE WANG THONG, PHITSANULOK.
DRAINAGE AREA	1,861 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+12.845 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1974, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1974, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 85 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.58	0.89	1.35	1.63	2.29	5.26	2.46	1.59	1.03	0.83	0.68	
2	0.95	0.57	0.89	1.40	1.76	2.58	5.00	2.37	1.62	1.02	0.83	0.67	
3	0.87	0.56	0.90	1.30	1.67	2.32	4.88	2.28	1.67	1.01	0.83	0.66	
4	0.77	0.55	0.84	1.35	1.64	2.21	5.42	2.20	1.61	1.03	0.82	0.65	
5	0.73	0.57	0.80	1.55	1.57	2.28	4.57	2.15	1.48	1.09	0.81	0.65	
6	0.71	0.55	0.77	1.45	1.51	2.53	4.10	2.14	1.40	1.13	0.79	0.64	
7	0.69	0.54	0.78	1.37	1.64	4.80	3.68	2.16	1.41	1.19	0.78	0.64	
8	0.68	0.53	1.13	1.29	1.68	9.44	3.42	2.07	1.39	1.17	0.78	0.64	
9	0.69	0.56	1.40	1.24	1.63	10.18	3.87	2.01	1.36	1.12	0.77	0.63	
10	0.69	0.66	2.55	1.23	1.63	9.14	4.06	1.94	1.33	1.10	0.77	0.64	
11	0.66	0.64	2.20	1.33	1.74	7.74	4.04	1.90	1.31	1.07	0.76	0.65	
12	0.66	0.61	1.76	1.64	1.72	6.35	3.96	1.85	1.30	1.04	0.76	0.64	
13	0.68	0.58	1.55	1.91	1.98	5.23	3.57	1.80	1.28	1.01	0.75	0.63	
14	0.68	0.57	1.40	2.01	2.29	4.60	3.27	1.86	1.26	1.00	0.75	0.62	
15	0.69	0.58	1.28	2.05	1.99	4.20	3.06	2.02	1.23	0.99	0.74	0.60	
16	0.73	0.60	1.24	1.67	1.88	3.75	2.87	1.93	1.21	0.97	0.73	0.59	
17	0.76	0.67	1.28	1.51	3.27	3.61	2.74	1.86	1.20	0.96	0.73	0.58	
18	0.72	0.83	1.17	1.39	3.62	3.85	2.63	1.81	1.18	0.95	0.72	0.58	
19	0.70	0.80	1.09	1.33	3.00	3.72	2.62	1.86	1.16	0.95	0.72	0.59	
20	0.70	0.90	1.04	1.34	2.61	3.80	2.63	1.79	1.15	0.93	0.71	0.58	
21	0.72	0.87	1.02	1.53	3.10	3.59	3.04	1.79	1.15	0.90	0.71	0.57	
22	0.74	0.94	0.99	2.04	3.12	3.34	2.76	1.68	1.13	0.89	0.70	0.57	
23	0.73	0.93	1.03	2.02	3.27	3.30	2.67	1.64	1.12	0.88	0.69	0.56	
24	0.72	1.18	1.07	2.15	2.84	4.91	2.74	1.70	1.11	0.87	0.69	0.56	
25	0.71	1.13	1.05	2.08	3.39	5.91	3.00	1.67	1.10	0.86	0.69	0.55	
26	0.67	1.21	1.05	2.21	3.81	7.55	3.11	1.59	1.09	0.86	0.68	0.55	
27	0.66	1.26	1.33	2.00	4.03	7.90	3.31	1.54	1.08	0.86	0.68	0.55	
28	0.64	1.07	1.31	1.81	3.46	6.95	3.31	1.51	1.07	0.86	0.68	0.55	
29	0.63	1.03	1.35	1.72	2.95	6.37	3.02	1.48	1.06	0.85		0.54	
30	0.61	1.02	1.30	1.62	2.75	5.92	2.79	1.47	1.05	0.85		0.54	
31		0.98		1.60	2.48		2.61		1.04	0.84		0.54	
MEAN	0.71	0.78	1.22	1.63	2.44	5.01	3.48	1.88	1.26	0.98	0.75	0.60	
MAX	0.95	1.26	2.55	2.21	4.03	10.18	5.42	2.46	1.67	1.19	0.83	0.68	10.18
MIN	0.61	0.53	0.77	1.23	1.51	2.21	2.61	1.47	1.04	0.84	0.68	0.54	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.65 M (A.D), AT 11.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.83 M (A.D)
LEFT BANK ELEVATION 13.73 M (A.D)
RIGHT BANK ELEVATION 15.59 M (A.D), DRAINAGE AREA 1861 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.12	0.60	3.15	9.25	13.60	27.75	129.51	32.00	12.85	4.62	2.55	1.35	
2	3.75	0.52	3.15	10.00	16.20	35.00	118.20	29.75	13.40	4.50	2.55	1.28	
3	2.95	0.45	3.25	8.50	14.40	28.50	112.98	27.50	14.40	4.38	2.55	1.20	
4	2.02	0.38	2.65	9.25	13.80	25.75	136.47	25.50	13.20	4.62	2.45	1.12	
5	1.73	0.52	2.25	12.25	12.55	27.50	100.97	24.38	11.20	5.38	2.35	1.12	
6	1.57	0.38	2.02	10.75	11.65	33.75	83.54	24.15	10.00	5.95	2.18	1.05	
7	1.42	0.30	2.10	9.55	13.80	109.50	67.97	24.60	10.15	6.85	2.10	1.05	
8	1.35	0.22	5.95	8.35	14.60	388.40	59.60	22.57	9.85	6.55	2.10	1.05	
9	1.42	0.45	10.00	7.60	13.60	482.20	75.01	21.22	9.40	5.80	2.02	0.97	
10	1.42	1.20	34.25	7.45	13.60	358.30	82.06	19.80	8.95	5.50	2.02	1.05	
11	1.20	1.05	25.50	8.95	15.80	253.40	81.32	19.00	8.65	5.13	1.95	1.12	
12	1.20	0.83	16.20	13.80	15.40	179.13	78.35	18.00	8.50	4.75	1.95	1.05	
13	1.35	0.60	12.25	19.20	20.60	128.20	64.10	17.00	8.20	4.38	1.87	0.97	
14	1.35	0.52	10.00	21.22	27.75	102.08	55.10	18.20	7.90	4.25	1.87	0.90	
15	1.42	0.60	8.20	22.12	20.80	87.25	48.80	21.45	7.45	4.15	1.80	0.75	
16	1.73	0.75	7.60	14.40	18.60	70.56	43.10	19.60	7.15	3.95	1.73	0.67	
17	1.95	1.28	8.20	11.65	55.10	65.37	39.35	18.20	7.00	3.85	1.73	0.60	
18	1.65	2.55	6.55	9.85	65.74	74.27	36.33	17.20	6.70	3.75	1.65	0.60	
19	1.50	2.25	5.38	8.95	47.00	69.45	36.05	18.20	6.40	3.75	1.65	0.67	
20	1.50	3.25	4.75	9.10	35.78	72.42	36.33	16.80	6.25	3.55	1.57	0.60	
21	1.65	2.95	4.50	11.95	50.00	64.70	48.20	16.80	6.25	3.25	1.57	0.52	
22	1.80	3.65	4.15	21.90	50.60	57.20	39.90	14.60	5.95	3.15	1.50	0.52	
23	1.73	3.55	4.62	21.45	55.10	56.00	37.43	13.80	5.80	3.05	1.42	0.45	
24	1.65	6.70	5.13	24.38	42.20	114.28	39.35	15.00	5.65	2.95	1.42	0.45	
25	1.57	5.95	4.87	22.80	58.70	158.22	47.00	14.40	5.50	2.85	1.42	0.38	
26	1.28	7.15	4.87	25.75	72.79	242.00	50.30	12.85	5.38	2.85	1.35	0.38	
27	1.20	7.90	8.95	21.00	80.95	263.00	56.30	12.10	5.25	2.85	1.35	0.38	
28	1.05	5.13	8.65	17.20	60.80	208.50	56.30	11.65	5.13	2.85	1.35	0.38	
29	0.97	4.62	9.25	15.40	45.50	180.08	47.60	11.20	5.00	2.75		0.30	
30	0.83	4.50	8.50	13.40	39.63	158.70	40.73	11.05	4.87	2.75		0.30	
31		4.05		13.00	32.50		35.78		4.75	2.65		0.30	
TOTAL	47.33	74.85	236.89	440.42	1049.14	4121.46	1984.03	568.57	247.13	127.61	52.02	23.53	8972.98 CMSDAY
MEAN	1.58	2.41	7.90	14.21	33.84	137.38	64.00	18.95	7.97	4.12	1.86	0.76	24.58 CMS
MAX	3.75	7.90	34.25	25.75	80.95	482.20	136.47	32.00	14.40	6.85	2.55	1.35	482.20 CMS
MIN	0.83	0.22	2.02	7.45	11.65	25.75	35.78	11.05	4.75	2.65	1.35	0.30	0.22 CMS
RUNOFF	4.089	6.467	20.467	38.052	90.646	356.094	171.420	49.124	21.352	11.026	4.495	2.033	775.266 MCM

MOMENTARY PEAK 558.00 CMS, AT 10.65 M (A.D), AT 11.00 HOURS, ON SEP 9, 1982

RUNOFF YIELD 13.21 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 299.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

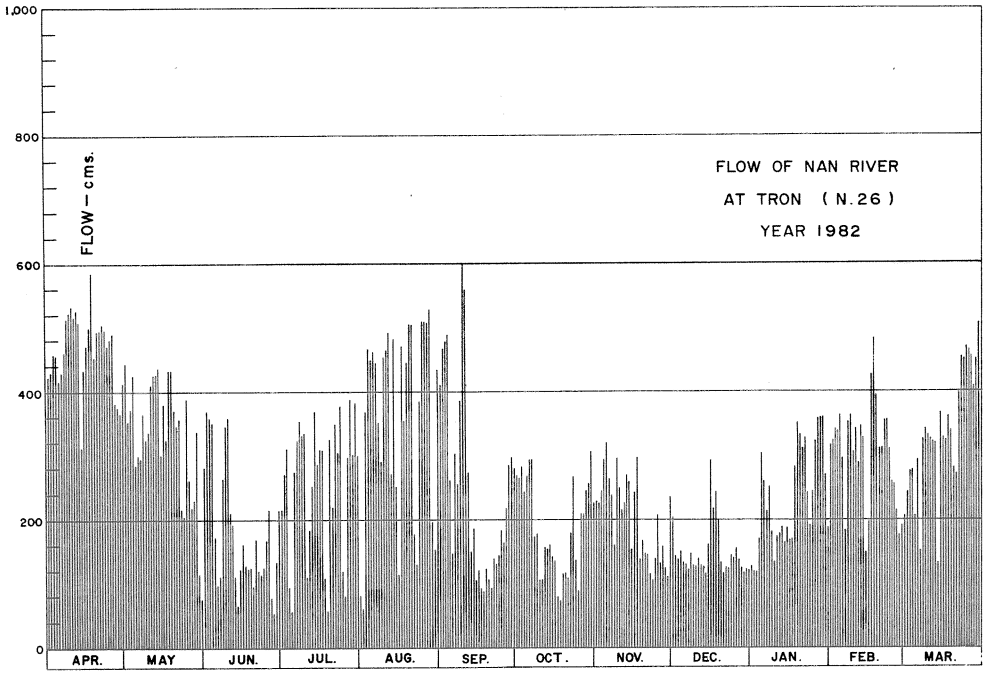
NAN RIVER AT TRON, UTTARADIT (N.26)

LOCATION	LAT. 17°-29'-00" N., LONG. 100°-06'-58" E., ON RIGHT BANK ABOUT 500 METERS UPSTREAM FROM TRON RAILWAY STATION, OPPOSITE TO AMPHOE TRON OFFICE, UTTARADIT.
DRAINAGE AREA	17,350 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+49.30 M. (M.S.L)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+58.880 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1974
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 227 DISCHARGE MEASUREMENTS MADE DURING 1969-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	52.71	52.83	52.16	51.57	50.54	52.66	51.91	51.66	51.56	50.92	52.17	51.51	
2	52.76	52.38	52.46	51.86	50.25	52.93	51.86	51.63	51.06	50.84	52.21	51.75	
3	52.91	52.47	52.42	52.14	52.52	53.01	51.98	51.76	51.00	50.82	52.31	51.95	
4	52.90	52.75	52.35	50.49	52.94	53.05	51.73	51.99	51.12	51.30	52.30	51.97	
5	52.68	51.99	51.35	50.20	52.85	51.56	51.87	52.20	50.96	52.11	52.44	51.51	
6	52.76	52.09	50.62	51.91	52.94	51.09	52.05	52.01	50.95	51.88	51.97	52.05	
7	52.91	52.08	50.76	52.20	52.84	52.09	52.05	51.76	50.86	51.56	51.35	51.13	
8	53.18	52.44	51.65	52.38	52.41	51.82	51.26	51.17	51.08	51.78	52.38	52.21	
9	53.23	52.21	52.32	52.26	52.03	52.60	51.31	52.06	50.92	51.34	52.44	52.33	
10	53.28	52.29	52.40	52.28	52.87	53.57	50.69	51.85	50.90	50.96	52.12	52.26	
11	53.19	52.65	51.55	50.73	52.95	53.08	50.72	51.56	51.03	51.27	52.32	52.23	
12	53.23	52.74	51.39	51.40	53.08	51.74	51.15	51.64	50.93	51.32	52.01	52.21	
13	53.11	52.74	50.68	51.87	51.93	51.11	51.14	51.90	50.92	51.39	52.36	52.18	
14	52.16	52.80	50.31	52.46	53.02	51.35	51.19	51.83	50.80	51.19	52.25	50.97	
15	52.75	52.09	50.87	52.01	51.62	50.71	51.02	51.13	51.18	51.38	51.10	52.46	
16	52.97	52.51	51.19	52.14	50.76	50.86	50.98	51.72	52.04	51.24	51.46	52.26	
17	53.13	52.22	50.92	52.13	52.96	50.56	50.47	52.07	51.59	51.26	52.74	52.22	
18	53.51	52.77	50.87	50.66	52.38	50.51	50.36	51.00	51.75	52.02	53.03	52.43	
19	52.88	52.77	50.91	50.22	52.85	50.87	50.80	51.24	51.59	52.38	52.52	52.31	
20	53.09	52.53	50.60	52.23	53.14	50.72	50.83	51.08	51.02	52.28	52.15	52.00	
21	53.07	52.34	51.24	51.59	53.14	50.58	50.73	51.07	50.82	52.15	52.16	51.93	
22	53.12	52.40	50.84	52.35	51.25	51.03	51.26	50.81	50.91	52.25	52.40	52.50	
23	53.09	51.54	50.77	52.12	50.93	50.94	51.89	50.70	50.89	51.74	52.40	52.89	
24	52.96	51.50	50.90	52.50	52.65	51.09	50.93	50.94	51.07	51.42	52.14	52.87	
25	53.02	52.30	51.25	50.80	53.16	51.35	50.51	51.52	51.02	51.78	51.85	52.97	
26	53.07	51.82	51.58	50.43	53.16	51.20	51.52	50.95	51.16	52.20	51.81	52.95	
27	52.53	51.58	50.40	52.08	53.15	51.73	51.52	51.17	51.02	52.41	51.57	52.90	
28	52.50	51.67	50.17	52.51	53.25	51.99	51.73	50.90	50.91	52.41	51.30	52.67	
29	52.43	52.29	51.10	52.09	51.42	52.07	51.82	50.74	50.81	52.41		52.92	
30	52.65	50.71	51.56	52.52	51.13	52.00	52.11	51.72	50.87	51.76		53.16	
31		50.36		52.10	52.79		51.63		50.84	51.39		53.04	
MEAN	52.93	52.19	51.25	51.75	52.35	51.66	51.32	51.46	51.08	51.65	52.12	52.28	
MAX	53.51	52.83	52.46	52.52	53.25	53.57	52.11	52.20	52.04	52.41	53.03	53.16	53.57
MIN	52.16	50.36	50.17	50.20	50.25	50.51	50.36	50.70	50.80	50.82	51.10	50.97	50.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 53.84 M (MSL), AT 18.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 49.30 M (MSL), RIVER BED 49.64 M (MSL)
LEFT BANK ELEVATION 60.22 M (MSL)
RIGHT BANK ELEVATION 58.90 M (MSL), DRAINAGE AREA 17350 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	418.0	442.0	312.8	215.2	88.0	408.0	269.6	229.6	213.6	126.4	314.6	205.6	
2	428.0	352.4	368.0	261.6	59.0	462.0	261.6	224.8	143.2	118.0	321.8	244.0	
3	458.0	370.0	360.0	309.2	380.0	478.0	280.8	245.6	136.0	116.0	339.8	276.0	
4	456.0	426.0	347.0	83.0	464.0	486.0	240.8	282.4	150.8	176.0	338.0	279.2	
5	412.0	282.4	183.0	54.0	446.0	213.6	263.2	320.0	131.2	303.8	364.0	205.6	
6	428.0	300.2	96.0	269.6	464.0	146.8	293.0	285.8	130.0	264.8	279.2	293.0	
7	458.0	293.0	110.0	320.0	444.0	300.2	293.0	245.6	120.0	213.6	183.0	152.2	
8	512.8	364.0	228.0	352.4	358.0	255.2	170.4	157.8	145.6	248.8	352.4	321.8	
9	523.3	321.8	341.6	330.8	289.4	396.0	177.4	294.8	126.4	181.6	364.0	343.4	
10	533.8	336.2	356.0	334.4	450.0	597.4	103.0	260.0	124.0	131.2	305.6	330.8	
11	514.9	406.0	212.0	107.0	466.0	492.0	106.0	213.6	139.6	171.8	341.6	325.4	
12	523.3	424.0	188.6	190.0	492.0	242.4	155.0	226.4	127.6	178.8	285.8	321.8	
13	498.1	424.0	102.0	263.2	272.8	149.4	153.6	268.0	126.4	188.6	348.8	316.4	
14	312.8	436.0	65.0	368.0	480.0	183.0	160.6	256.8	114.0	160.6	329.0	132.4	
15	426.0	300.2	121.0	285.8	223.2	105.0	138.4	152.2	159.2	187.2	148.0	368.0	
16	470.0	378.0	160.6	309.2	110.0	120.0	133.6	239.2	291.2	167.6	198.4	330.8	
17	502.3	323.6	126.4	307.4	468.0	90.0	81.0	296.6	218.4	170.4	424.0	323.6	
18	584.2	430.0	121.0	100.0	352.4	85.0	70.0	136.0	244.0	287.6	482.0	362.0	
19	452.0	430.0	125.2	56.0	446.0	121.0	114.0	167.6	218.4	352.4	380.0	339.8	
20	494.0	382.0	94.0	325.4	504.4	106.0	117.0	145.6	138.4	334.4	311.0	284.0	
21	490.0	345.2	167.6	218.4	504.4	92.0	107.0	144.4	116.0	311.0	312.8	272.8	
22	500.2	356.0	118.0	347.0	169.0	139.6	170.4	115.0	125.2	329.0	356.0	376.0	
23	494.0	210.4	111.0	305.6	127.6	128.8	266.4	104.0	123.0	242.4	356.0	454.0	
24	468.0	204.0	124.0	376.0	406.0	146.8	127.6	128.8	144.4	192.8	309.2	450.0	
25	480.0	338.0	169.0	114.0	508.6	183.0	85.0	207.2	138.4	248.8	260.0	470.0	
26	490.0	255.2	216.8	77.0	508.6	162.0	207.2	130.0	156.4	320.0	253.6	466.0	
27	382.0	216.8	74.0	298.4	506.5	240.8	207.2	157.8	138.4	358.0	215.2	456.0	
28	376.0	231.2	51.6	378.0	527.5	282.4	240.8	124.0	125.2	358.0	176.0	410.0	
29	362.0	336.2	148.0	300.2	192.8	296.6	255.2	108.0	115.0	358.0		460.0	
30	406.0	105.0	213.6	380.0	152.2	284.0	303.8	239.2	121.0	245.6		508.6	
31		70.0		302.0	434.0		224.8		118.0	188.6		484.0	
TOTAL	13853.7	10089.8	5411.8	7938.8	11294.4	7393.0	5777.4	6106.8	4619.0	7231.8	8649.8	10563.2	98929.5 CMSDAY
MEAN	461.8	325.5	180.4	256.1	364.3	246.4	186.4	203.6	149.0	233.3	308.9	340.7	271.0 CMS
MAX	584.2	442.0	368.0	380.0	527.5	597.4	303.8	320.0	291.2	358.0	482.0	508.6	597.4 CMS
MIN	312.8	70.0	51.6	54.0	59.0	85.0	70.0	104.0	114.0	116.0	148.0	132.4	51.6 CMS
RUNOFF	1196.96	871.76	467.58	685.91	975.84	638.76	499.17	527.63	399.08	624.83	747.34	912.66	8547.51 MCM

MOMENTARY PEAK 656.80 CMS, AT 53.84 M (MSL), AT 18.00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 15.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

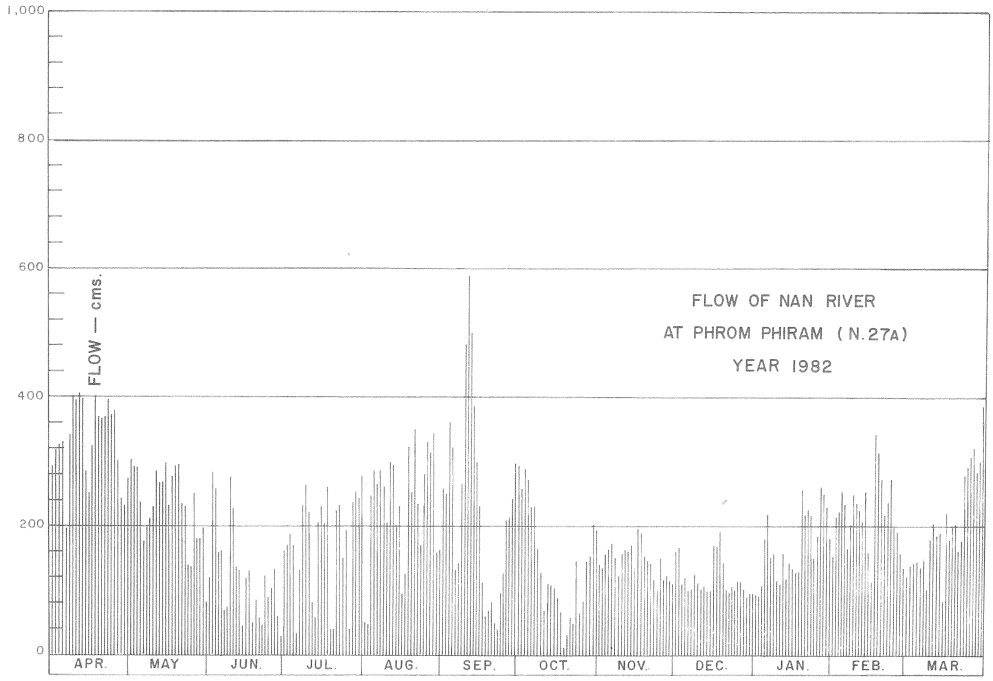
NAN RIVER AT PHROM PHIRAM, PHITSANULOK (N.27A)

LOCATION	LAT. 17°-01'-54" N., LONG. 100°-11'-05" E., ON RIGHT BANK ABOUT 1,800 METERS DOWNSTREAM FROM PHROM PHIRAM DAM, AMPHOE PHROM PHIRAM, PHITSANULOK.
DRAINAGE AREA	19,540 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 12 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+10.159 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.52	3.46	1.18	2.28	2.35	3.24	3.47	2.07	2.28	1.50	2.19	1.80	
2	3.60	3.65	2.45	2.34	0.90	3.12	3.21	2.01	2.32	1.48	2.80	2.05	
3	3.78	3.51	3.47	2.53	0.89	3.60	3.49	1.93	1.66	1.47	2.84	2.05	
4	3.81	3.53	3.15	2.38	3.10	4.11	3.39	2.18	1.78	1.60	3.18	2.10	
5	3.86	3.34	2.23	0.69	3.47	3.41	3.30	2.30	1.73	2.42	3.17	2.09	
6	3.27	2.76	2.27	0.69	3.29	1.92	2.94	2.40	1.57	2.81	3.01	1.95	
7	2.64	2.43	1.15	2.27	3.43	2.06	2.96	2.32	1.59	2.19	2.25	2.17	
8	3.95	2.66	1.21	2.94	3.11	2.69	2.60	2.15	1.60	2.14	2.52	1.59	
9	4.34	2.78	2.39	3.25	2.29	3.82	2.03	1.83	1.85	2.20	3.14	2.42	
10	4.48	2.74	3.37	3.02	2.70	5.07	1.78	2.25	1.66	1.77	3.13	2.48	
11	4.38	3.22	2.92	2.78	3.59	5.93	1.14	2.27	1.61	1.66	2.96	2.72	
12	4.47	3.49	1.98	1.27	3.53	5.25	1.30	2.27	1.64	2.03	2.90	2.51	
13	4.39	3.29	1.94	1.00	3.14	4.45	1.71	2.26	1.55	2.24	2.69	2.53	
14	3.61	3.28	0.98	2.67	2.67	3.76	1.67	2.35	1.53	1.80	3.17	2.34	
15	3.16	3.52	0.73	2.93	2.96	3.36	1.58	2.19	1.58	2.09	2.41	1.38	
16	3.76	2.97	1.79	2.69	1.46	2.14	1.44	1.98	2.37	1.97	1.71	2.86	
17	3.88	3.34	1.93	3.22	1.83	1.45	1.41	2.63	2.31	1.93	3.26	2.47	
18	4.46	3.39	1.26	2.63	3.77	1.05	0.85	2.50	2.55	1.88	3.97	2.67	
19	4.18	3.51	0.93	0.71	3.16	1.13	0.31	2.20	2.14	2.92	3.51	2.69	
20	4.18	3.56	1.42	0.82	3.75	1.32	0.72	2.09	1.98	3.20	3.34	2.27	
21	4.14	3.35	1.09	2.90	4.01	1.03	1.05	2.07	1.59	2.82	2.84	2.42	
22	4.22	2.99	0.80	2.96	3.24	0.78	0.83	1.91	1.49	2.88	3.01	2.46	
23	4.42	2.97	1.81	2.72	2.61	1.12	2.11	1.65	1.60	2.83	3.34	3.39	
24	4.24	2.06	1.45	2.16	2.17	1.60	1.90	1.56	1.53	2.17	3.27	3.53	
25	4.14	1.97	1.36	2.59	3.42	1.92	1.12	2.15	1.72	2.13	2.64	3.63	
26	4.24	3.12	1.66	1.10	3.83	2.76	1.42	1.85	1.74	2.54	2.59	3.75	
27	3.57	2.47	1.93	0.79	3.68	2.79	2.11	1.72	1.67	3.28	2.34	3.83	
28	3.11	2.42	1.21	3.00	3.96	3.03	2.13	1.81	1.55	3.17	2.04	3.46	
29	2.96	2.48	0.60	3.17	3.50	3.18	2.18	1.73	1.42	3.14		3.58	
30	3.24	2.65	0.81	3.03	2.21	3.59	2.68	1.66	1.49	2.91		3.76	
31		1.39		3.38	2.26		2.57		1.54	2.34		4.32	
MEAN	3.87	2.98	1.72	2.29	2.91	2.82	1.98	2.08	1.76	2.31	2.86	2.69	
MAX	4.48	3.65	3.47	3.38	4.01	5.93	3.49	2.63	2.55	3.28	3.97	4.32	5.93
MIN	2.64	1.39	0.60	0.69	0.89	0.78	0.31	1.56	1.42	1.47	1.71	1.38	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.18 M (A.D), AT 9.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.00 M (A.D)
LEFT BANK ELEVATION 10.30 M (A.D)
RIGHT BANK ELEVATION 10.50 M (A.D), DRAINAGE AREA 19540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	291.8	284.9	67.5	161.8	168.6	260.4	286.0	142.3	161.8	93.5	153.1	119.0	
2	301.0	306.7	178.4	167.6	47.0	247.6	257.1	136.9	165.7	91.8	214.0	140.5	
3	321.7	290.6	286.0	186.2	46.3	301.0	288.3	130.1	107.1	91.0	218.2	140.5	
4	325.2	292.9	250.8	171.6	245.5	361.2	276.9	152.2	117.3	102.0	253.9	145.0	
5	331.2	271.4	156.9	32.3	286.0	279.1	267.0	163.8	113.1	175.5	252.9	144.1	
6	263.7	209.8	160.8	32.3	265.9	129.2	228.7	173.5	99.5	215.1	236.1	131.8	
7	197.2	176.4	65.3	160.8	281.5	141.4	230.8	165.7	101.2	153.1	158.9	151.3	
8	342.0	199.3	69.8	228.7	246.5	202.5	193.0	149.5	102.0	148.6	185.2	101.2	
9	388.8	211.9	172.5	261.5	162.8	326.4	138.7	121.6	123.3	154.0	249.7	175.5	
10	405.6	207.7	274.7	237.1	203.5	479.2	117.3	158.9	107.1	116.5	248.7	181.3	
11	393.6	258.2	226.6	211.9	299.8	588.9	64.5	160.8	102.9	107.1	230.8	205.6	
12	404.4	288.3	134.3	74.6	292.9	501.9	77.0	160.8	105.4	138.7	224.5	184.2	
13	394.8	265.9	130.9	54.0	249.7	402.0	111.4	159.8	97.8	157.9	202.5	186.2	
14	302.1	264.8	52.6	200.4	200.4	319.4	108.0	168.6	96.1	119.0	252.9	167.6	
15	251.8	291.8	35.1	227.7	230.8	273.6	100.3	153.1	100.3	144.1	174.5	83.4	
16	319.4	231.9	118.2	202.5	90.1	148.6	88.4	134.3	170.6	133.5	111.4	220.3	
17	333.6	271.4	130.1	258.2	121.6	89.3	85.9	196.2	164.7	130.1	262.6	180.3	
18	403.2	276.9	73.8	196.2	320.5	57.7	43.5	183.3	188.1	125.8	344.4	200.4	
19	369.6	290.6	49.1	33.7	251.8	63.7	7.1	154.0	148.6	226.6	290.6	202.5	
20	369.6	296.4	86.7	41.4	318.2	78.6	34.4	144.1	134.3	256.0	271.4	160.8	
21	364.8	272.5	60.7	224.5	349.2	56.2	57.7	142.3	101.2	216.1	218.2	175.5	
22	374.4	234.0	40.0	230.8	260.4	38.6	42.1	128.4	92.7	222.4	236.1	179.4	
23	398.4	231.9	119.9	205.6	194.1	63.0	145.9	106.3	102.0	217.1	271.4	276.9	
24	376.8	141.4	89.3	150.4	151.3	102.0	127.5	98.6	96.1	151.3	263.7	292.9	
25	364.8	133.5	81.8	192.0	280.3	129.2	63.0	149.5	112.2	147.7	197.2	304.5	
26	376.8	247.6	107.1	61.5	327.6	209.8	86.7	123.3	113.9	187.2	192.0	318.2	
27	297.5	180.3	130.1	39.3	310.2	213.0	145.9	112.2	108.0	264.8	167.6	327.6	
28	246.5	175.5	69.8	235.0	343.2	238.1	147.7	119.9	97.8	252.9	139.6	284.9	
29	230.8	181.3	26.0	252.9	289.5	253.9	152.2	113.1	86.7	249.7		298.7	
30	260.4	198.3	40.7	238.1	155.0	299.8	201.4	107.1	92.7	225.6		319.4	
31		84.2		275.8	159.8		190.1		96.9	167.6		386.4	
TOTAL	10001.5	7268.3	3485.5	5246.4	7150.0	6855.3	4364.5	4310.2	3607.1	5182.3	6222.1	6385.9	70079.1 CMSDAY
MEAN	333.4	234.5	116.2	169.2	230.6	228.5	140.8	143.7	116.4	167.2	222.2	206.0	192.0 CMS
MAX	405.6	306.7	286.0	275.8	349.2	588.9	288.3	196.2	188.1	264.8	344.4	386.4	588.9 CMS
MIN	197.2	84.2	26.0	32.3	46.3	38.6	7.1	98.6	86.7	91.0	111.4	83.4	7.1 CMS
RUNOFF	864.13	627.98	301.15	453.29	617.76	592.30	377.09	372.40	311.65	447.75	537.59	551.74	6054.83 MCM

MOMENTARY PEAK 621.40 CMS, AT 6.18 M (A.D), AT 9.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 9.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 31.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

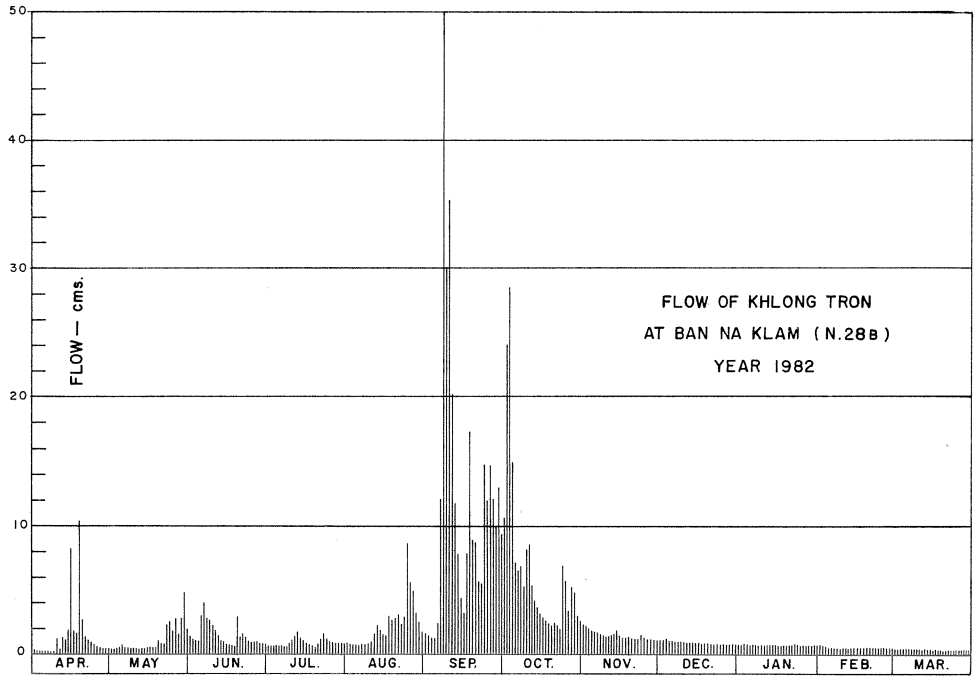
KHLONG TRON AT BAN NA KLAM, UTTARADIT (N.28B)

LOCATION	LAT. 17°-34'-55" N., LONG. 100°-29'-45" E., ON RIGHT BANK NEAR BAN NA KLAM SCHOOL ABOUT 1 KILOMETER UPSTREAM FROM STATION N.28A, AMPHOE NAM PAT, UTTARADIT.
DRAINAGE AREA	366 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+9.577 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.35	1.35	1.48	1.41	1.43	1.49	1.82	1.54	1.45	1.42	1.41	1.38	
2	1.32	1.35	1.46	1.41	1.43	1.48	1.96	1.54	1.46	1.42	1.41	1.37	
3	1.32	1.35	1.44	1.41	1.42	1.48	2.17	1.53	1.46	1.42	1.41	1.37	
4	1.31	1.35	1.43	1.41	1.41	1.46	1.92	1.51	1.46	1.42	1.40	1.37	
5	1.30	1.37	1.55	1.41	1.41	1.47	1.80	1.51	1.44	1.42	1.40	1.37	
6	1.30	1.41	1.62	1.41	1.41	1.57	1.73	1.50	1.44	1.42	1.40	1.37	
7	1.30	1.39	1.57	1.41	1.42	2.09	1.71	1.50	1.44	1.42	1.40	1.37	
8	1.29	1.38	1.57	1.40	1.42	2.56	1.72	1.49	1.44	1.42	1.39	1.37	
9	1.30	1.38	1.56	1.40	1.42	2.19	1.67	1.49	1.44	1.42	1.39	1.37	
10	1.46	1.37	1.54	1.42	1.42	2.27	1.76	1.48	1.44	1.42	1.39	1.37	
11	1.39	1.36	1.51	1.45	1.44	2.11	1.77	1.48	1.44	1.42	1.39	1.36	
12	1.47	1.36	1.48	1.47	1.50	1.88	1.69	1.48	1.43	1.42	1.39	1.36	
13	1.46	1.36	1.46	1.51	1.54	1.77	1.64	1.48	1.43	1.42	1.39	1.36	
14	1.44	1.35	1.44	1.47	1.52	1.67	1.62	1.51	1.43	1.42	1.39	1.36	
15	1.54	1.36	1.43	1.45	1.50	1.62	1.60	1.50	1.43	1.41	1.39	1.36	
16	1.76	1.39	1.42	1.43	1.48	1.59	1.58	1.48	1.43	1.41	1.39	1.35	
17	1.51	1.40	1.41	1.42	1.48	1.83	1.57	1.47	1.43	1.41	1.39	1.35	
18	1.50	1.38	1.41	1.41	1.58	1.97	1.55	1.47	1.43	1.41	1.40	1.34	
19	1.82	1.39	1.40	1.40	1.56	1.78	1.54	1.48	1.43	1.41	1.39	1.34	
20	1.60	1.44	1.56	1.40	1.57	1.78	1.53	1.47	1.42	1.41	1.39	1.34	
21	1.48	1.42	1.47	1.42	1.58	1.70	1.55	1.47	1.42	1.41	1.39	1.34	
22	1.45	1.43	1.49	1.44	1.55	1.68	1.53	1.46	1.42	1.42	1.39	1.34	
23	1.43	1.54	1.47	1.51	1.53	1.92	1.52	1.46	1.42	1.43	1.39	1.33	
24	1.43	1.55	1.44	1.47	1.57	1.86	1.72	1.49	1.43	1.41	1.39	1.33	
25	1.41	1.51	1.43	1.45	1.77	1.92	1.70	1.48	1.42	1.41	1.38	1.33	
26	1.39	1.56	1.43	1.44	1.68	1.86	1.66	1.46	1.42	1.41	1.38	1.33	
27	1.38	1.48	1.43	1.43	1.66	1.86	1.60	1.46	1.42	1.41	1.38	1.33	
28	1.37	1.51	1.43	1.43	1.60	1.81	1.66	1.45	1.42	1.41	1.38	1.33	
29	1.37	1.58	1.42	1.42	1.57	1.88	1.65	1.45	1.42	1.41		1.33	
30	1.36	1.65	1.42	1.42	1.53	1.79	1.58	1.45	1.42	1.41		1.33	
31		1.53		1.42	1.50		1.56		1.42	1.41		1.33	
MEAN	1.43	1.43	1.47	1.43	1.51	1.81	1.68	1.48	1.43	1.42	1.39	1.35	
MAX	1.82	1.65	1.62	1.51	1.77	2.56	2.17	1.54	1.46	1.43	1.41	1.38	2.56
MIN	1.29	1.35	1.40	1.40	1.41	1.46	1.52	1.45	1.42	1.41	1.38	1.33	1.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.11 M (A.D), AT 19.00 HOURS, ON SEP 17, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 3.71 M (A.D)
LEFT BANK ELEVATION 11.16 M (A.D)
RIGHT BANK ELEVATION 9.28 M (A.D), DRAINAGE AREA 366 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.40	1.48	0.71	0.93	1.59	10.43	2.38	1.15	0.82	0.71	0.52	
2	0.28	0.40	1.26	0.71	0.93	1.48	16.72	2.38	1.26	0.82	0.71	0.48	
3	0.28	0.40	1.04	0.71	0.82	1.48	28.63	2.21	1.26	0.82	0.71	0.48	
4	0.24	0.40	0.93	0.71	0.71	1.26	14.74	1.87	1.26	0.82	0.60	0.48	
5	0.20	0.48	2.55	0.71	0.71	1.37	9.60	1.87	1.04	0.82	0.60	0.48	
6	0.20	0.71	3.94	0.71	0.71	2.89	7.15	1.70	1.04	0.82	0.60	0.48	
7	0.20	0.56	2.89	0.71	0.82	23.69	6.45	1.70	1.04	0.82	0.60	0.48	
8	0.18	0.52	2.89	0.60	0.82	59.50	6.80	1.59	1.04	0.82	0.56	0.48	
9	0.20	0.52	2.72	0.60	0.82	29.88	5.29	1.59	1.04	0.82	0.56	0.48	
10	1.26	0.48	2.38	0.82	0.82	35.33	8.20	1.48	1.04	0.82	0.56	0.48	
11	0.56	0.44	1.87	1.15	1.04	24.87	8.55	1.48	1.04	0.82	0.56	0.44	
12	1.37	0.44	1.48	1.37	1.70	12.92	5.83	1.48	0.93	0.82	0.56	0.44	
13	1.26	0.44	1.26	1.87	2.38	8.55	4.48	1.48	0.93	0.82	0.56	0.44	
14	1.04	0.40	1.04	1.37	2.04	5.29	3.94	1.87	0.93	0.82	0.56	0.44	
15	2.38	0.44	0.93	1.15	1.70	3.94	3.40	1.70	0.93	0.71	0.56	0.44	
16	8.20	0.56	0.82	0.93	1.48	3.23	3.06	1.48	0.93	0.71	0.56	0.40	
17	1.87	0.60	0.71	0.82	1.48	10.85	2.89	1.37	0.93	0.71	0.56	0.40	
18	1.70	0.52	0.71	0.71	3.06	17.22	2.55	1.37	0.93	0.71	0.60	0.36	
19	10.43	0.56	0.60	0.60	2.72	8.90	2.38	1.48	0.93	0.71	0.56	0.36	
20	3.40	1.04	2.72	0.60	2.89	8.90	2.21	1.37	0.82	0.71	0.56	0.36	
21	1.48	0.82	1.37	0.82	3.06	6.10	2.55	1.37	0.82	0.71	0.56	0.36	
22	1.15	0.93	1.59	1.04	2.55	5.56	2.21	1.26	0.82	0.82	0.56	0.36	
23	0.93	2.38	1.37	1.87	2.21	14.74	2.04	1.26	0.82	0.93	0.56	0.32	
24	0.93	2.55	1.04	1.37	2.89	12.09	6.80	1.59	0.93	0.71	0.56	0.32	
25	0.71	1.87	0.93	1.15	8.55	14.74	6.10	1.48	0.82	0.71	0.52	0.32	
26	0.56	2.72	0.93	1.04	5.56	12.09	5.02	1.26	0.82	0.71	0.52	0.32	
27	0.52	1.48	0.93	0.93	5.02	12.09	3.40	1.26	0.82	0.71	0.52	0.32	
28	0.48	1.87	0.93	0.93	3.40	10.01	5.02	1.15	0.82	0.71	0.52	0.32	
29	0.48	3.06	0.82	0.82	2.89	12.92	4.75	1.15	0.82	0.71		0.32	
30	0.44	4.75	0.82	0.82	2.21	9.25	3.06	1.15	0.82	0.71		0.32	
31		2.21		0.82	1.70		2.72		0.82	0.71		0.32	
TOTAL	43.33	34.95	44.95	29.17	68.62	372.73	196.97	46.78	29.60	23.88	16.17	12.52	919.67 CMSDAY
MEAN	1.44	1.13	1.50	0.94	2.21	12.42	6.35	1.56	0.95	0.77	0.58	0.40	2.52 CMS
MAX	10.43	4.75	3.94	1.87	8.55	59.50	28.63	2.38	1.26	0.93	0.71	0.52	59.50 CMS
MIN	0.18	0.40	0.60	0.60	0.71	1.26	2.04	1.15	0.82	0.71	0.52	0.32	0.18 CMS
RUNOFF	3.744	3.020	3.884	2.520	5.929	32.204	17.018	4.042	2.557	2.063	1.397	1.082	79.459 MCM

MOMENTARY PEAK 120.26 CMS, AT 3.11 M (A.D), AT 19.00 HOURS, ON SEP 17, 1982
RUNOFF YIELD 6.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 328.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

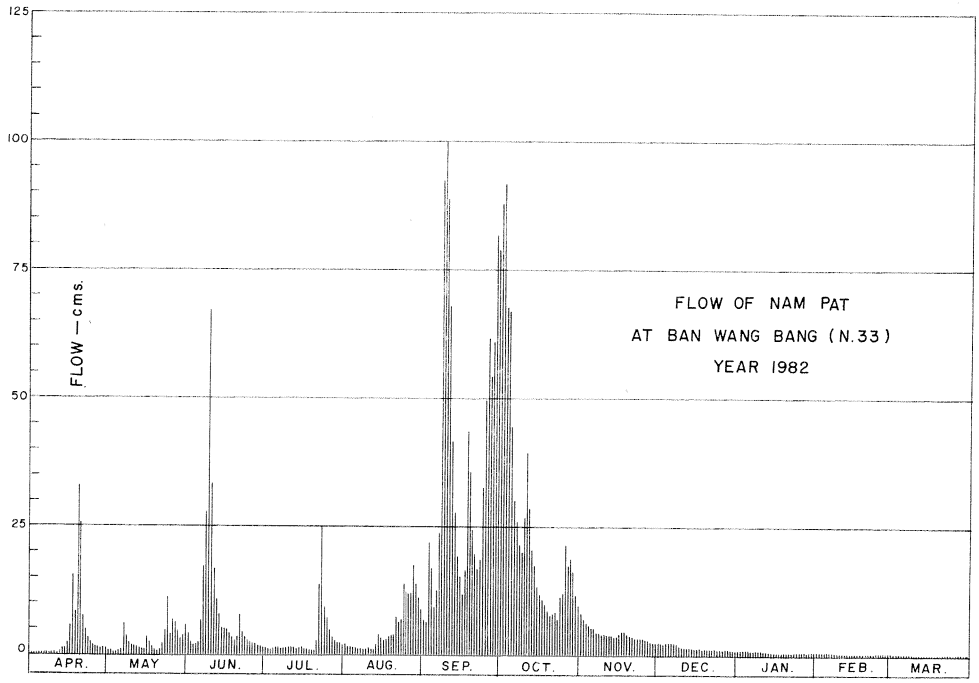
NAM PAT AT BAN WANG BANG, UTTARADIT (N.33)

LOCATION	LAT. 17°-43'-05" N., LONG. 100°-34'-32" E., ON RIGHT BANK ABOUT 4.5 KILOMETERS UPSTREAM FROM CONFLUENCE WITH NAN RIVER AT BAN WANG BANG, TAMBON SAEN TO, AMPHOE NAM PAT, UTTARADIT.
DRAINAGE AREA	2,463 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+79.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+87.268 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD . STAGE-DISCHARGE RELATION DEFINED BY 127 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	79.22	79.34	79.56	79.39	79.43	79.71	81.15	79.73	79.47	79.34	79.27	79.20	
2	79.23	79.33	79.50	79.39	79.43	79.70	81.18	79.71	79.47	79.34	79.27	79.20	
3	79.24	79.32	79.45	79.38	79.41	80.13	80.88	79.68	79.47	79.33	79.27	79.19	
4	79.23	79.30	79.49	79.38	79.40	80.02	80.88	79.64	79.47	79.33	79.27	79.19	
5	79.22	79.30	79.51	79.38	79.39	79.79	80.48	79.63	79.46	79.33	79.26	79.18	
6	79.22	79.37	79.72	79.38	79.40	79.93	80.27	79.62	79.46	79.33	79.25	79.18	
7	79.22	79.68	80.02	79.38	79.39	80.28	80.24	79.60	79.45	79.33	79.25	79.18	
8	79.22	79.54	80.36	79.38	79.39	81.19	80.12	79.59	79.44	79.33	79.25	79.18	
9	79.22	79.46	80.88	79.38	79.39	81.27	80.08	79.58	79.41	79.33	79.24	79.19	
10	79.22	79.44	80.36	79.39	79.39	81.09	80.22	79.57	79.40	79.33	79.24	79.19	
11	79.22	79.42	79.97	79.43	79.40	80.88	80.48	79.57	79.40	79.32	79.24	79.19	
12	79.28	79.39	79.81	79.40	79.41	80.50	80.23	79.56	79.39	79.32	79.23	79.18	
13	79.40	79.37	79.73	79.38	79.48	80.21	80.08	79.55	79.38	79.32	79.23	79.17	
14	79.37	79.35	79.64	79.40	79.59	80.05	79.99	79.56	79.37	79.32	79.23	79.17	
15	79.50	79.34	79.63	79.41	79.54	79.96	79.91	79.55	79.37	79.31	79.22	79.17	
16	79.64	79.54	79.62	79.41	79.53	79.87	79.85	79.57	79.36	79.31	79.21	79.17	
17	80.04	79.47	79.58	79.36	79.53	80.01	79.82	79.60	79.37	79.30	79.21	79.18	
18	79.76	79.38	79.53	79.34	79.56	80.55	79.79	79.59	79.37	79.29	79.21	79.18	
19	80.36	79.37	79.51	79.33	79.58	80.37	79.76	79.58	79.36	79.29	79.20	79.19	
20	80.05	79.35	79.52	79.33	79.61	80.17	79.74	79.56	79.36	79.27	79.20	79.19	
21	79.71	79.40	79.74	79.48	79.72	80.08	79.75	79.54	79.35	79.26	79.21	79.18	
22	79.61	79.52	79.59	79.95	79.69	80.00	79.76	79.54	79.35	79.28	79.21	79.17	
23	79.53	79.66	79.58	80.09	79.72	80.07	79.70	79.53	79.34	79.28	79.20	79.17	
24	79.48	79.84	79.52	79.81	79.93	80.51	79.87	79.52	79.35	79.28	79.20	79.17	
25	79.44	79.58	79.48	79.73	79.90	80.68	79.89	79.52	79.35	79.28	79.20	79.17	
26	79.42	79.70	79.45	79.61	79.87	80.81	80.12	79.51	79.34	79.28	79.20	79.16	
27	79.40	79.68	79.43	79.54	79.89	80.71	80.03	79.50	79.34	79.29	79.20	79.15	
28	79.39	79.62	79.42	79.52	80.02	80.48	80.06	79.49	79.34	79.29	79.20	79.15	
29	79.37	79.53	79.40	79.49	79.93	81.06	79.96	79.48	79.34	79.29		79.14	
30	79.35	79.60	79.39	79.46	79.83	81.03	79.84	79.48	79.33	79.28		79.14	
31		79.68		79.44	79.75		79.77		79.33	79.27		79.14	
MEAN	79.45	79.48	79.68	79.48	79.60	80.37	80.13	79.57	79.39	79.30	79.23	79.17	
MAX	80.36	79.84	80.88	80.09	80.02	81.27	81.18	79.73	79.47	79.34	79.27	79.20	81.27
MIN	79.22	79.30	79.39	79.33	79.39	79.70	79.70	79.48	79.33	79.26	79.20	79.14	79.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 81.81 M (MSL), AT 20.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 79.00 M (MSL), RIVER BED 78.64 M (MSL)
LEFT BANK ELEVATION 88.84 M (MSL)
RIGHT BANK ELEVATION 92.95 M (MSL), DRAINAGE AREA 2463 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY.	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.82	3.58	1.22	1.66	6.99	89.40	7.57	2.14	0.82	0.39	0.15	
2	0.26	0.74	2.50	1.22	1.66	6.70	91.98	6.99	2.14	0.82	0.39	0.15	
3	0.29	0.66	1.90	1.14	1.42	21.92	67.16	6.22	2.14	0.74	0.39	0.14	
4	0.26	0.50	2.38	1.14	1.30	17.32	67.16	5.26	2.14	0.74	0.39	0.14	
5	0.22	0.50	2.68	1.14	1.22	9.31	39.56	5.02	2.02	0.74	0.36	0.12	
6	0.22	1.06	7.28	1.14	1.30	13.91	28.36	4.78	2.02	0.74	0.33	0.12	
7	0.22	6.22	17.32	1.14	1.22	28.84	26.92	4.30	1.90	0.74	0.33	0.12	
8	0.22	3.22	32.92	1.14	1.22	92.84	21.48	4.12	1.78	0.74	0.33	0.12	
9	0.22	2.02	67.16	1.14	1.22	99.86	19.78	3.94	1.42	0.74	0.29	0.14	
10	0.22	1.78	32.92	1.22	1.22	84.26	25.96	3.76	1.30	0.74	0.29	0.14	
11	0.22	1.54	15.39	1.66	1.30	67.16	39.56	3.76	1.30	0.66	0.29	0.14	
12	0.43	1.22	9.92	1.30	1.42	40.70	26.44	3.58	1.22	0.66	0.26	0.12	
13	1.30	1.06	7.57	1.14	2.26	25.48	19.78	3.40	1.14	0.66	0.26	0.11	
14	1.06	0.90	5.26	1.30	4.12	18.55	16.13	3.58	1.06	0.66	0.26	0.11	
15	2.50	0.82	5.02	1.42	3.22	15.02	13.17	3.40	1.06	0.58	0.22	0.11	
16	5.26	3.22	4.78	1.42	3.04	11.84	11.20	3.76	0.98	0.58	0.19	0.11	
17	18.14	2.14	3.94	0.98	3.04	16.91	10.24	4.30	1.06	0.50	0.19	0.12	
18	8.44	1.14	3.04	0.82	3.58	43.85	9.31	4.12	1.06	0.46	0.19	0.12	
19	32.92	1.06	2.68	0.74	3.94	33.44	8.44	3.94	0.98	0.46	0.15	0.14	
20	18.55	0.90	2.86	0.74	4.54	23.68	7.86	3.58	0.98	0.39	0.15	0.14	
21	6.99	1.30	7.86	2.26	7.28	19.78	8.15	3.22	0.90	0.36	0.19	0.12	
22	4.54	2.86	4.12	14.65	6.46	16.50	8.44	3.22	0.90	0.43	0.19	0.11	
23	3.04	5.74	3.94	20.19	7.28	19.37	6.70	3.04	0.82	0.43	0.15	0.11	
24	2.26	10.88	2.86	9.92	13.91	41.33	11.84	2.86	0.90	0.43	0.15	0.11	
25	1.78	3.94	2.26	7.57	12.80	52.04	12.48	2.86	0.90	0.43	0.15	0.11	
26	1.54	6.70	1.90	4.54	11.84	61.77	21.48	2.68	0.82	0.43	0.15	0.09	
27	1.30	6.22	1.66	3.22	12.48	54.07	17.73	2.50	0.82	0.46	0.15	0.08	
28	1.22	4.78	1.54	2.86	17.32	39.56	18.96	2.38	0.82	0.46	0.15	0.08	
29	1.06	3.04	1.30	2.38	13.91	81.76	15.02	2.26	0.82	0.46		0.06	
30	0.90	4.30	1.22	2.02	10.56	79.25	10.88	2.26	0.74	0.43		0.06	
31		6.22		1.78	8.15		8.73		0.74	0.39		0.06	
TOTAL	115.80	87.50	259.76	94.55	165.89	1144.01	780.30	116.66	39.02	17.88	6.93	3.55	2831.85 CMSDAY
MEAN	3.86	2.82	8.66	3.05	5.35	38.13	25.17	3.89	1.26	0.58	0.25	0.11	7.76 CMS
MAX	32.92	10.88	67.16	20.19	17.32	99.86	91.98	7.57	2.14	0.82	0.39	0.15	99.86 CMS
MIN	0.22	0.50	1.22	0.74	1.22	6.70	6.70	2.26	0.74	0.36	0.15	0.06	0.06 CMS
RUNOFF	10.005	7.560	22.443	8.169	14.333	98.842	67.418	10.079	3.371	1.545	0.599	0.307	244.672 MCM

MOMENTARY PEAK 150.68 CMS, AT 81.81 M (MSL), AT 20.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 3.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

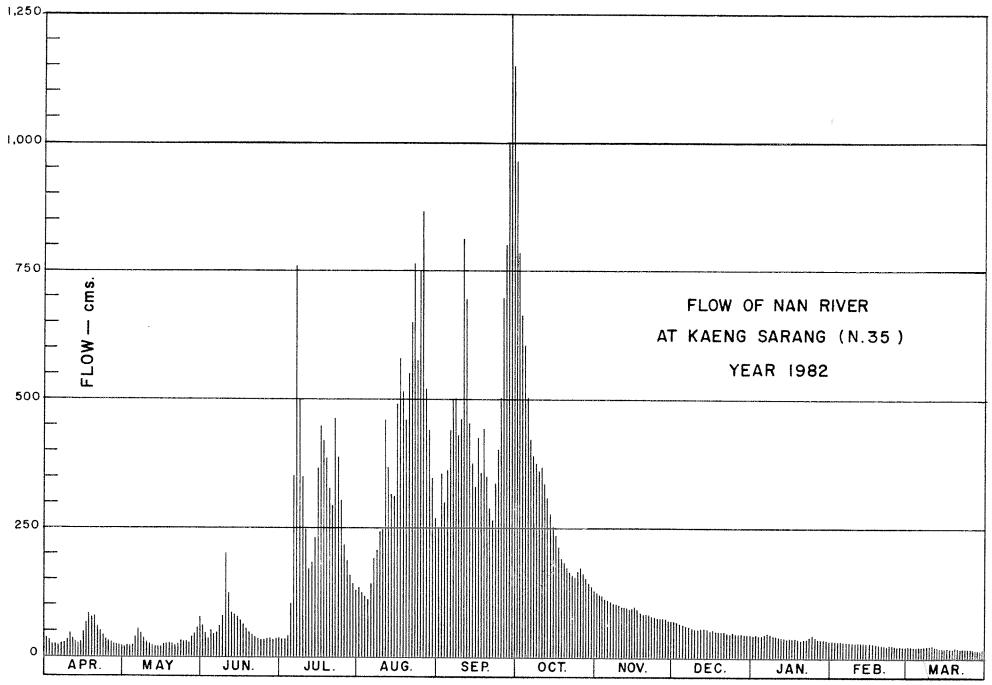
NAN RIVER AT KAENG SARANG, NAN (N.35)

LOCATION	LAT. 18°-24'-00" N., LONG. 100°-51'-05" E., ON LEFT BANK AT KAENG SARANG, BETWEEN DOI KHON KAEN AND DOI CHAM HANG, AMPHOE SA, NAN.
DRAINAGE AREA	10,335 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF METEOROLOGICAL STATION.
ELEVATION	+12.354 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	0.85	1.20	0.99	1.72	2.45	5.62	1.70	1.25	1.06	0.97	0.85	
2	0.96	0.84	1.13	0.97	1.69	3.02	4.91	1.66	1.25	1.06	0.96	0.85	
3	0.92	0.87	0.98	0.98	1.64	2.74	4.40	1.61	1.24	1.05	0.95	0.84	
4	0.88	0.85	1.12	1.01	1.58	3.04	4.28	1.60	1.23	1.05	0.95	0.84	
5	0.86	0.86	1.06	1.08	1.55	3.24	3.88	1.58	1.22	1.05	0.94	0.84	
6	0.87	1.03	1.08	1.79	1.76	3.73	3.56	1.55	1.21	1.09	0.94	0.84	
7	0.88	1.14	1.10	4.71	2.14	3.72	3.31	1.54	1.19	1.09	0.93	0.84	
8	0.89	1.07	1.26	4.29	2.21	3.40	3.17	1.52	1.18	1.08	0.93	0.84	
9	0.93	1.00	1.37	3.39	2.44	3.53	3.12	1.50	1.17	1.07	0.92	0.85	
10	1.06	0.94	2.18	2.93	2.45	4.89	3.04	1.48	1.17	1.05	0.92	0.89	
11	1.02	0.90	1.75	2.51	3.54	4.71	3.10	1.48	1.16	1.04	0.92	0.87	
12	0.96	0.88	1.51	2.13	3.17	3.94	2.94	1.47	1.16	1.03	0.91	0.85	
13	0.92	0.85	1.38	1.96	3.04	3.43	2.84	1.45	1.15	1.02	0.91	0.84	
14	0.89	0.85	1.36	2.11	2.80	3.09	2.65	1.44	1.14	1.01	0.91	0.83	
15	0.93	0.83	1.31	2.45	2.80	2.89	2.58	1.44	1.13	1.01	0.91	0.83	
16	1.09	0.86	1.29	3.10	3.68	3.38	2.44	1.49	1.13	1.00	0.91	0.82	
17	1.33	0.90	1.21	3.49	4.02	3.04	2.30	1.46	1.12	1.00	0.91	0.82	
18	1.38	0.92	1.15	3.36	3.80	3.46	2.18	1.41	1.12	1.00	0.90	0.82	
19	1.31	0.90	1.09	3.28	3.53	3.12	2.09	1.39	1.11	0.99	0.89	0.81	
20	1.35	0.88	1.06	3.12	3.74	2.90	2.04	1.38	1.11	0.99	0.88	0.81	
21	1.17	0.87	1.03	2.76	4.16	2.64	1.96	1.37	1.11	0.99	0.88	0.82	
22	1.13	0.87	1.01	3.55	4.73	2.54	1.93	1.36	1.10	1.00	0.88	0.82	
23	1.07	0.95	0.99	3.26	4.15	2.82	1.89	1.34	1.09	1.03	0.88	0.81	
24	1.01	0.95	0.97	3.18	4.02	3.31	1.86	1.32	1.09	1.08	0.87	0.80	
25	0.96	0.94	0.97	2.72	5.07	4.09	1.91	1.31	1.09	1.03	0.87	0.80	
26	0.93	0.92	1.01	2.37	4.38	4.63	2.01	1.31	1.08	1.01	0.86	0.79	
27	0.91	0.94	1.02	2.16	3.86	4.83	1.93	1.30	1.08	1.00	0.86	0.79	
28	0.89	1.07	0.99	1.97	3.46	5.79	1.85	1.28	1.07	1.00	0.85	0.79	
29	0.88	1.09	0.98	1.85	3.11	6.37	1.80	1.27	1.07	0.99		0.79	
30	0.86	1.13	1.02	1.75	2.80	6.04	1.79	1.26	1.06	0.98		0.79	
31		1.32		1.69	2.56		1.72		1.06	0.98		0.79	
MEAN	1.01	0.94	1.19	2.48	3.08	3.69	2.75	1.44	1.14	1.03	0.91	0.82	
MAX	1.38	1.32	2.18	4.71	5.07	6.37	5.62	1.70	1.25	1.09	0.97	0.89	6.37
MIN	0.86	0.83	0.97	0.97	1.55	2.45	1.72	1.26	1.06	0.98	0.85	0.79	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.88 M (A.D), AT 3.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.50 M (A.D)
LEFT BANK ELEVATION 13.70 M (A.D)
RIGHT BANK ELEVATION 14.35 M (A.D), DRAINAGE AREA 10335 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	37.0	21.0	62.0	35.9	133.0	248.5	1033.2	130.0	68.5	44.2	33.7	21.0	
2	32.6	20.0	52.9	33.7	128.6	354.0	818.9	124.4	68.5	44.2	32.6	21.0	
3	28.2	23.0	34.8	34.8	121.6	299.9	676.0	117.4	67.2	43.0	31.5	20.0	
4	24.0	21.0	51.6	38.2	113.2	358.0	643.8	116.0	65.9	43.0	31.5	20.0	
5	22.0	22.0	44.2	46.6	109.0	398.0	542.0	113.2	64.6	43.0	30.4	20.0	
6	23.0	40.6	46.6	143.5	139.0	505.6	466.2	109.0	63.3	47.8	30.4	20.0	
7	24.0	54.2	49.0	761.8	196.4	503.2	412.1	107.6	60.7	47.8	29.3	20.0	
8	25.0	45.4	69.8	646.4	207.7	431.0	384.0	104.8	59.4	46.6	29.3	20.0	
9	29.3	37.0	84.1	428.9	246.8	459.6	374.0	102.0	58.1	45.4	28.2	21.0	
10	44.2	30.4	202.8	336.0	248.5	813.1	358.0	99.2	58.1	43.0	28.2	25.0	
11	39.4	26.0	137.5	258.7	461.8	761.8	370.0	99.2	56.8	41.8	28.2	23.0	
12	32.6	24.0	103.4	194.8	384.0	557.0	338.0	97.8	56.8	40.6	27.1	21.0	
13	28.2	21.0	85.4	169.0	358.0	437.6	318.6	95.0	55.5	39.4	27.1	20.0	
14	25.0	21.0	82.8	191.6	311.0	368.0	283.3	93.6	54.2	38.2	27.1	19.0	
15	29.3	19.0	76.3	248.5	311.0	328.1	270.6	93.6	52.9	38.2	27.1	19.0	
16	47.8	22.0	73.7	370.0	493.8	426.8	246.8	100.6	52.9	37.0	27.1	18.0	
17	78.9	26.0	63.3	450.8	577.0	358.0	223.0	96.4	51.6	37.0	27.1	18.0	
18	85.4	28.2	55.5	422.6	522.0	444.2	202.8	89.4	51.6	37.0	26.0	18.0	
19	76.3	26.0	47.8	406.0	459.6	374.0	188.5	86.7	50.3	35.9	25.0	17.0	
20	81.5	24.0	44.2	374.0	507.9	330.0	181.0	85.4	50.3	35.9	24.0	17.0	
21	58.1	23.0	40.6	303.6	612.6	281.4	169.0	84.1	50.3	35.9	24.0	18.0	
22	52.9	23.0	38.2	464.0	767.4	263.8	164.5	82.8	49.0	37.0	24.0	18.0	
23	45.4	31.5	35.9	402.0	610.0	314.8	158.5	80.2	47.8	40.6	24.0	17.0	
24	38.2	31.5	33.7	386.0	577.0	412.1	154.0	77.6	47.8	46.6	23.0	16.0	
25	32.6	30.4	33.7	296.2	866.0	594.5	161.5	76.3	47.8	40.6	23.0	16.0	
26	29.3	28.2	38.2	234.9	670.6	739.4	176.5	76.3	46.6	38.2	22.0	15.2	
27	27.1	30.4	39.4	199.6	537.0	795.7	164.5	75.0	46.6	37.0	22.0	15.2	
28	25.0	45.4	35.9	170.5	444.2	1086.8	152.5	72.4	45.4	37.0	21.0	15.2	
29	24.0	47.8	34.8	152.5	372.0	1277.1	145.0	71.1	45.4	35.9		15.2	
30	22.0	52.9	39.4	137.5	311.0	1168.2	143.5	69.8	44.2	34.8		15.2	
31		77.6		128.6	267.2		133.0		44.2	34.8		15.2	
TOTAL	1168.3	973.5	1837.5	8467.2	12064.9	15690.2	10053.3	2826.9	1682.3	1247.4	753.9	574.2	57339.6 CMSDAY
MEAN	38.9	31.4	61.3	273.1	389.2	523.0	324.3	94.2	54.3	40.2	26.9	18.5	157.1 CMS
MAX	85.4	77.6	202.8	761.8	866.0	1277.1	1033.2	130.0	68.5	47.8	33.7	25.0	1277.1 CMS
MIN	22.0	19.0	33.7	33.7	109.0	248.5	133.0	69.8	44.2	34.8	21.0	15.2	15.2 CMS
RUNOFF	100.94	84.11	158.76	731.57	1042.41	1355.63	868.61	244.24	145.35	107.78	65.14	49.61	4954.14 MCM

MOMENTARY PEAK 1449.60 CMS, AT 6.88 M (A.D), AT 3.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD 15.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

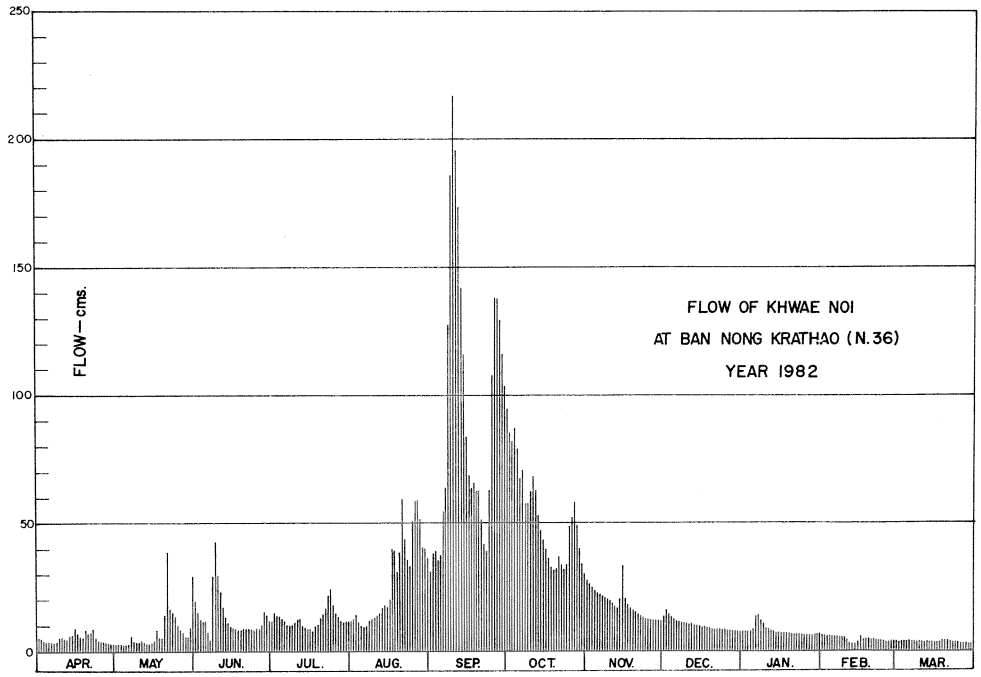
KHWAE NOI AT BAN NONG KRATHAO, PHITSANULOK (N.36)

LOCATION	LAT. 17°-04'-59" N., LONG. 100°-49'-55" E., ON LEFT BANK ABOUT 50 METERS UPSTREAM FROM BELLY BRIDGE ALONG LOM SAK-NAKHON THAI ROAD, TAMBON NONG KRATHAO, AMPHOE NAKHON THAI, PHITSANULOK.
DRAINAGE AREA	1,651 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE MEASURING LINE.
ELEVATION	+6.154 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1979
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1979
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.72 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 1,106 DISCHARGE MEASUREMENTS MADE DURING 1973-1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	0.79	2.02	1.57	1.60	2.92	6.06	2.75	1.75	1.30	1.16	0.88	
2	1.00	0.79	1.84	1.81	1.64	3.38	5.73	2.64	1.98	1.29	1.15	0.89	
3	0.95	0.79	1.64	1.79	1.78	3.45	5.61	2.54	1.80	1.29	1.14	0.89	
4	0.91	0.77	1.61	1.74	1.51	3.07	5.78	2.48	1.74	1.30	1.13	0.88	
5	0.90	0.73	1.62	1.74	1.41	3.32	5.39	2.44	1.68	1.39	1.12	0.88	
6	0.89	0.71	1.30	1.65	1.36	4.51	4.93	2.40	1.62	1.74	1.12	0.88	
7	0.88	1.08	0.91	1.51	1.39	4.89	5.12	2.34	1.58	1.83	1.12	0.90	
8	0.89	0.88	3.11	1.49	1.61	7.04	4.45	2.29	1.57	1.67	1.12	0.92	
9	1.08	0.77	3.64	1.47	1.63	7.30	4.44	2.25	1.54	1.45	1.10	0.92	
10	1.06	0.85	2.87	1.54	1.69	7.37	4.69	2.19	1.53	1.36	1.06	0.90	
11	1.00	0.94	2.51	1.64	1.72	7.26	5.01	2.06	1.52	1.33	1.03	0.88	
12	0.98	0.88	2.05	1.71	1.81	7.14	4.73	1.99	1.51	1.32	1.02	0.88	
13	1.15	0.82	1.73	1.50	1.94	6.94	4.17	1.96	1.49	1.30	1.01	0.87	
14	1.06	0.81	1.57	1.39	2.10	6.33	3.83	2.28	1.46	1.28	1.00	0.86	
15	1.43	0.80	1.49	1.36	1.88	5.58	3.57	3.14	1.45	1.26	1.00	0.85	
16	1.31	0.91	1.41	1.38	2.12	5.04	3.36	2.25	1.44	1.25	0.99	0.85	
17	1.12	1.32	1.36	1.22	3.49	4.71	3.21	2.04	1.43	1.24	0.98	0.84	
18	0.99	0.98	1.34	1.43	3.34	4.89	3.09	1.97	1.42	1.23	0.99	0.87	
19	1.35	0.98	1.32	1.45	2.85	4.71	2.97	1.94	1.40	1.22	0.99	0.98	
20	1.08	1.88	1.39	1.71	3.52	4.72	3.02	1.90	1.39	1.22	0.98	0.98	
21	1.19	3.42	1.39	1.76	4.55	3.91	3.34	1.83	1.38	1.20	0.98	0.97	
22	1.44	2.02	1.39	1.95	3.79	3.49	3.04	1.78	1.37	1.20	0.96	0.92	
23	1.02	1.87	1.34	2.29	3.29	3.42	2.99	1.76	1.37	1.19	0.96	0.89	
24	0.91	1.82	1.30	2.47	2.88	4.93	3.16	1.72	1.37	1.20	0.95	0.87	
25	0.88	1.43	1.36	2.14	4.00	6.70	4.00	1.71	1.36	1.20	0.94	0.84	
26	0.87	1.32	1.27	2.02	4.53	6.96	4.23	1.70	1.35	1.19	0.93	0.83	
27	0.86	1.25	1.42	1.76	4.53	6.95	4.52	1.69	1.34	1.18	0.93	0.82	
28	0.85	1.08	1.85	1.66	4.07	6.86	3.94	1.68	1.33	1.17	0.92	0.81	
29	0.81	0.94	1.76	1.59	3.49	6.61	3.50	1.66	1.32	1.16		0.80	
30	0.80	1.39	1.52	1.60	3.51	6.33	3.13	1.63	1.32	1.17		0.81	
31		2.88		1.56	3.22		2.89		1.30	1.17		0.81	
MEAN	1.02	1.22	1.71	1.67	2.65	5.36	4.13	2.10	1.49	1.30	1.03	0.88	
MAX	1.44	3.42	3.64	2.47	4.55	7.37	6.06	3.14	1.98	1.83	1.16	0.98	7.37
MIN	0.80	0.71	0.91	1.22	1.36	2.92	2.89	1.63	1.30	1.16	0.92	0.80	0.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.41 M (A.D), AT 1.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.63 M (A.D)
LEFT BANK ELEVATION 6.99 M (A.D)
RIGHT BANK ELEVATION 6.72 M (A.D), DRAINAGE AREA 1651 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.44	2.72	16.88	10.98	11.35	30.12	93.84	27.45	13.30	7.83	6.28	3.52	
2	4.60	2.72	14.47	14.08	11.87	37.56	84.91	25.80	16.33	7.72	6.17	3.61	
3	4.15	2.72	11.87	13.82	13.69	38.75	81.86	24.30	13.95	7.72	6.07	3.61	
4	3.79	2.56	11.48	13.17	10.23	32.52	86.19	23.41	13.17	7.83	5.96	3.52	
5	3.70	2.24	11.61	13.17	9.08	36.54	76.57	22.83	12.39	8.85	5.86	3.52	
6	3.61	2.08	7.83	12.00	8.51	57.90	66.49	22.25	11.61	13.17	5.86	3.52	
7	3.52	5.44	3.79	10.23	8.85	65.63	70.58	21.38	11.10	14.34	5.86	3.70	
8	3.61	3.52	33.16	9.99	11.48	147.80	56.75	20.66	10.98	12.26	5.86	3.88	
9	5.44	2.56	42.00	9.76	11.74	198.50	56.56	20.10	10.60	9.53	5.65	3.88	
10	5.23	3.25	29.32	10.60	12.52	216.00	61.50	19.26	10.48	8.51	5.23	3.70	
11	4.60	4.06	23.85	11.87	12.91	189.50	68.22	17.44	10.35	8.17	4.91	3.52	
12	4.42	3.52	17.30	12.78	14.08	164.30	62.30	16.46	10.23	8.06	4.81	3.52	
13	6.17	2.98	13.04	10.10	15.79	135.64	51.46	16.06	9.99	7.83	4.71	3.43	
14	5.23	2.89	10.98	8.85	18.00	102.09	45.34	20.52	9.65	7.61	4.60	3.34	
15	9.31	2.80	9.99	8.51	14.99	81.12	40.79	33.64	9.53	7.38	4.60	3.25	
16	7.95	3.79	9.08	8.74	18.28	68.86	37.22	20.10	9.42	7.27	4.51	3.25	
17	5.86	8.06	8.51	6.93	39.43	61.90	34.76	17.16	9.31	7.15	4.42	3.16	
18	4.51	4.42	8.29	9.31	36.88	65.63	32.84	16.20	9.19	7.04	4.51	3.43	
19	8.40	4.42	8.06	9.53	29.00	61.90	30.92	15.79	8.97	6.93	4.51	4.42	
20	5.44	14.99	8.85	12.78	39.94	62.10	31.72	15.25	8.85	6.93	4.42	4.42	
21	6.59	38.24	8.85	13.43	58.70	46.78	36.88	14.34	8.74	6.70	4.42	4.33	
22	9.42	16.88	8.85	15.93	44.63	39.43	32.04	13.69	8.63	6.70	4.24	3.88	
23	4.81	14.86	8.29	20.66	36.04	38.24	31.24	13.43	8.63	6.59	4.24	3.61	
24	3.79	14.21	7.83	23.27	29.48	66.49	33.96	12.91	8.63	6.70	4.15	3.43	
25	3.52	9.31	8.51	18.56	48.40	117.00	48.40	12.78	8.51	6.70	4.06	3.16	
26	3.43	8.06	7.49	16.88	58.30	137.76	52.57	12.65	8.40	6.59	3.97	3.07	
27	3.34	7.27	9.19	13.43	58.30	136.70	58.10	12.52	8.29	6.49	3.97	2.98	
28	3.25	5.44	14.60	12.13	49.66	128.12	47.32	12.39	8.17	6.38	3.88	2.89	
29	2.89	4.06	13.43	11.23	39.43	112.50	39.60	12.13	8.06	6.28		2.80	
30	2.80	8.85	10.35	11.35	39.77	102.09	33.48	11.74	8.06	6.38		2.89	
31		29.48		10.85	34.92		29.64		7.83	6.38		2.89	
TOTAL	148.82	238.40	397.75	384.92	846.25	2779.47	1614.05	544.64	311.35	244.02	137.73	108.13	7755.53 CMSDAY
MEAN	4.96	7.69	13.26	12.42	27.30	92.65	52.07	18.15	10.04	7.87	4.92	3.49	21.25 CMS
MAX	9.42	38.24	42.00	23.27	58.70	216.00	93.84	33.64	16.33	14.34	6.28	4.42	216.00 CMS
MIN	2.80	2.08	3.79	6.93	8.51	30.12	29.64	11.74	7.83	6.28	3.88	2.80	2.08 CMS
RUNOFF	12.858	20.598	34.366	33.257	73.116	240.146	139.454	47.057	26.901	21.083	11.900	9.342	670.078 MCM

MOMENTARY PEAK 226.30 CMS, AT 7.41 M (A.D), AT 1:00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 12.87 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 137.07 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

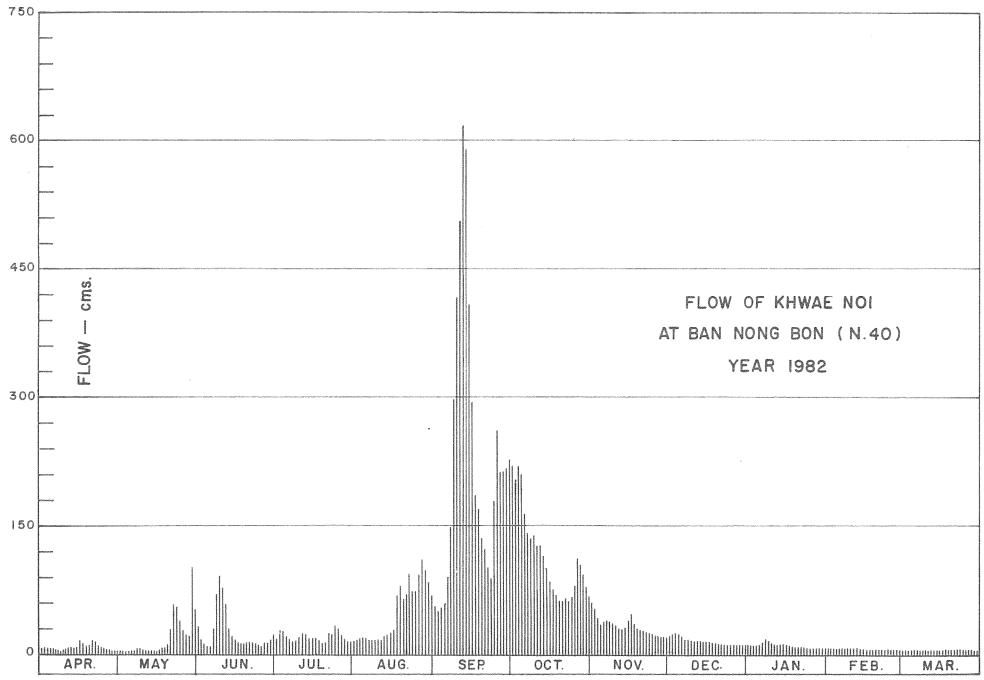
KHWAE NOI AT BAN NONG BON, PHITSANULOK (N.40)

LOCATION	LAT. 17°-13'-14" N., LONG. 100°-21'-10" E., ON LEFT BANK ABOUT 2 KILOMETERS UPSTREAM FROM BAN NONG BON, AMPHOE WAT BOT, PHITSANULOK.
DRAINAGE AREA	4,340 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ABOUT 4 METERS SOUTH OF THE GAGE SITE, B.M.2 ABOUT 90 METERS SOUTH OF THE GAGE SITE.
ELEVATION	B.M.1=+14.45 M. (A.D.), B.M.2=+14.40 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR . STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.61	1.76	1.26	1.15	2.56	5.63	2.53	1.36	0.98	0.83	0.71	
2	0.76	0.61	1.31	1.38	1.26	2.27	5.37	2.41	1.40	0.98	0.82	0.69	
3	0.74	0.62	1.06	1.58	1.22	2.26	5.63	2.15	1.50	0.97	0.82	0.70	
4	0.73	0.61	0.96	1.54	1.34	2.44	5.50	1.86	1.46	0.96	0.82	0.70	
5	0.70	0.61	0.92	1.40	1.28	2.51	5.23	1.85	1.36	0.97	0.81	0.71	
6	0.67	0.61	0.94	1.29	1.23	3.09	4.77	1.98	1.32	1.02	0.81	0.71	
7	0.65	0.70	1.52	1.21	1.16	3.60	4.37	1.95	1.27	1.12	0.80	0.70	
8	0.65	0.76	2.71	1.13	1.13	5.54	4.17	1.88	1.23	1.25	0.80	0.70	
9	0.63	0.76	3.26	1.13	1.15	7.64	4.20	1.84	1.22	1.18	0.79	0.70	
10	0.66	0.71	3.06	1.30	1.16	8.50	4.04	1.78	1.19	1.08	0.78	0.71	
11	0.76	0.68	2.87	1.28	1.17	9.19	4.00	1.73	1.17	1.00	0.78	0.70	
12	0.78	0.65	2.21	1.54	1.27	9.78	4.01	1.69	1.16	0.98	0.77	0.69	
13	0.78	0.63	1.70	1.47	1.42	9.64	3.90	1.66	1.14	0.97	0.76	0.68	
14	0.72	0.62	1.39	1.31	1.48	8.69	3.60	1.66	1.12	0.96	0.76	0.67	
15	0.82	0.63	1.23	1.22	1.52	7.21	3.30	1.84	1.10	0.95	0.75	0.67	
16	0.96	0.63	1.13	1.29	1.57	5.87	3.06	2.16	1.09	0.93	0.75	0.67	
17	1.18	0.64	1.06	1.23	1.93	5.08	2.89	1.96	1.07	0.91	0.74	0.66	
18	0.97	0.81	0.99	1.19	2.69	4.83	2.72	1.72	1.07	0.90	0.74	0.66	
19	0.85	0.82	0.97	1.05	2.93	4.28	2.61	1.63	1.06	0.88	0.73	0.69	
20	0.99	0.99	1.04	1.03	2.64	4.08	2.60	1.57	1.04	0.88	0.75	0.69	
21	1.27	1.54	1.10	1.14	2.76	3.81	2.57	1.54	1.03	0.87	0.74	0.73	
22	1.07	2.09	1.08	1.44	3.35	3.45	2.66	1.50	1.02	0.86	0.73	0.75	
23	0.93	2.46	1.06	1.45	3.10	3.18	2.58	1.46	1.01	0.85	0.73	0.73	
24	0.82	2.36	1.00	1.65	2.82	4.65	2.67	1.45	1.01	0.86	0.72	0.70	
25	0.75	1.78	0.97	1.83	2.86	6.27	2.87	1.47	1.00	0.87	0.72	0.68	
26	0.70	1.65	0.96	1.61	3.34	5.78	3.73	1.42	1.00	0.87	0.71	0.66	
27	0.68	1.43	1.03	1.42	3.71	5.54	3.64	1.37	1.00	0.85	0.70	0.66	
28	0.66	1.30	1.05	1.26	3.56	5.57	3.53	1.34	0.99	0.85	0.71	0.66	
29	0.64	2.68	1.15	1.15	3.25	5.58	3.21	1.33	0.98	0.84		0.65	
30	0.62	3.46	1.40	1.12	3.03	5.76	2.90	1.32	0.98	0.83		0.64	
31		2.34		1.11	2.75		2.70		0.97	0.83		0.64	
MEAN	0.80	1.19	1.43	1.32	2.10	5.29	3.70	1.74	1.14	0.94	0.76	0.69	
MAX	1.27	3.46	3.26	1.83	3.71	9.78	5.63	2.53	1.50	1.25	0.83	0.75	9.78
MIN	0.62	0.61	0.92	1.03	1.13	2.26	2.57	1.32	0.97	0.83	0.70	0.64	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.87 M (A.D), AT 20.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.38 M (A.D)
LEFT BANK ELEVATION 14.57 M (A.D)
RIGHT BANK ELEVATION 14.51 M (A.D), DRAINAGE AREA 4340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.26	4.20	34.58	19.52	16.60	62.90	220.45	61.70	22.22	12.24	8.79	6.21	
2	7.26	4.20	20.87	22.76	19.52	51.82	204.70	56.90	23.30	12.24	8.56	5.80	
3	6.84	4.40	14.26	28.70	18.44	51.46	220.45	47.60	26.30	12.01	8.56	6.00	
4	6.63	4.20	11.78	27.50	21.68	58.10	212.50	37.88	25.10	11.78	8.56	6.00	
5	6.00	4.20	10.86	23.30	20.06	60.90	196.30	37.55	22.22	12.01	8.33	6.21	
6	5.40	4.20	11.32	20.33	18.71	84.55	169.35	41.84	21.14	13.22	8.33	6.21	
7	5.00	6.00	26.90	18.17	16.86	107.50	147.35	40.85	19.79	15.82	8.10	6.00	
8	5.00	7.26	68.90	16.08	16.08	214.90	136.43	38.54	18.71	19.25	8.10	6.00	
9	4.60	7.26	92.20	16.08	16.60	359.70	138.00	37.22	18.44	17.38	7.89	6.00	
10	5.20	6.21	83.20	20.60	16.86	436.75	129.60	35.24	17.64	14.78	7.68	6.21	
11	7.26	5.60	75.30	20.06	17.12	521.65	127.50	33.59	17.12	12.70	7.68	6.00	
12	7.68	5.00	49.66	27.50	19.79	618.95	128.03	32.27	16.86	12.24	7.47	5.80	
13	7.68	4.60	32.60	25.40	23.90	594.10	122.50	31.28	16.34	12.01	7.26	5.60	
14	6.42	4.40	23.03	20.87	25.70	457.62	107.50	31.28	15.82	11.78	7.26	5.40	
15	8.56	4.60	18.71	18.44	26.90	327.25	94.00	37.22	15.30	11.55	7.05	5.40	
16	11.78	4.60	16.08	20.33	28.40	236.05	83.20	47.94	15.04	11.09	7.05	5.40	
17	17.38	4.80	14.26	18.71	40.19	187.30	76.10	41.18	14.52	10.63	6.84	5.20	
18	12.01	8.33	12.47	17.64	68.10	172.72	69.30	33.26	14.52	10.40	6.84	5.20	
19	9.25	8.56	12.01	14.00	77.70	142.40	64.90	30.29	14.26	9.94	6.63	5.80	
20	12.47	12.47	13.74	13.48	66.10	131.70	64.50	28.40	13.74	9.94	7.05	5.80	
21	19.79	27.50	15.30	16.34	70.90	118.00	63.30	27.50	13.48	9.71	6.84	6.63	
22	14.52	45.56	14.78	24.50	96.25	100.75	66.90	26.30	13.22	9.48	6.63	7.05	
23	11.09	58.90	14.26	24.80	85.00	88.60	63.70	25.10	12.96	9.25	6.63	6.63	
24	8.56	55.06	12.70	30.95	73.30	162.75	67.30	24.80	12.96	9.48	6.42	6.00	
25	7.05	35.24	12.01	36.89	74.90	262.05	75.30	25.40	12.70	9.71	6.42	5.60	
26	6.00	30.95	11.78	29.63	95.80	230.20	114.00	23.90	12.70	9.71	6.21	5.20	
27	5.60	24.20	13.48	23.90	113.00	214.90	109.50	22.49	12.70	9.25	6.00	5.20	
28	5.20	20.60	14.00	19.52	105.70	216.70	104.35	21.68	12.47	9.25	6.21	5.20	
29	4.80	67.70	16.60	16.60	91.75	217.30	89.95	21.41	12.24	9.02		5.00	
30	4.40	101.20	23.30	15.82	81.85	228.90	76.50	21.14	12.24	8.79		4.80	
31		54.34		15.56	70.50		68.50		12.01	8.79		4.80	
TOTAL	246.69	636.34	790.94	663.98	1534.26	6718.47	3611.96	1021.75	508.06	355.45	205.39	178.35	16471.64 CMSDAY
MEAN	8.22	20.53	26.36	21.42	49.49	223.95	116.51	34.06	16.39	11.47	7.34	5.75	45.13 CMS
MAX	19.79	101.20	92.20	36.89	113.00	618.95	220.45	61.70	26.30	19.25	8.79	7.05	618.95 CMS
MIN	4.40	4.20	10.86	13.48	16.08	51.46	63.30	21.14	12.01	8.79	6.00	4.80	4.20 CMS
RUNOFF	21.314	54.980	68.337	57.368	132.560	580.476	312.073	88.279	43.896	30.711	17.746	15.409	1423.150 MCM

MOMENTARY PEAK 635.62 CMS, AT 9.87 M (A.D), AT 20.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 10.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 146.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

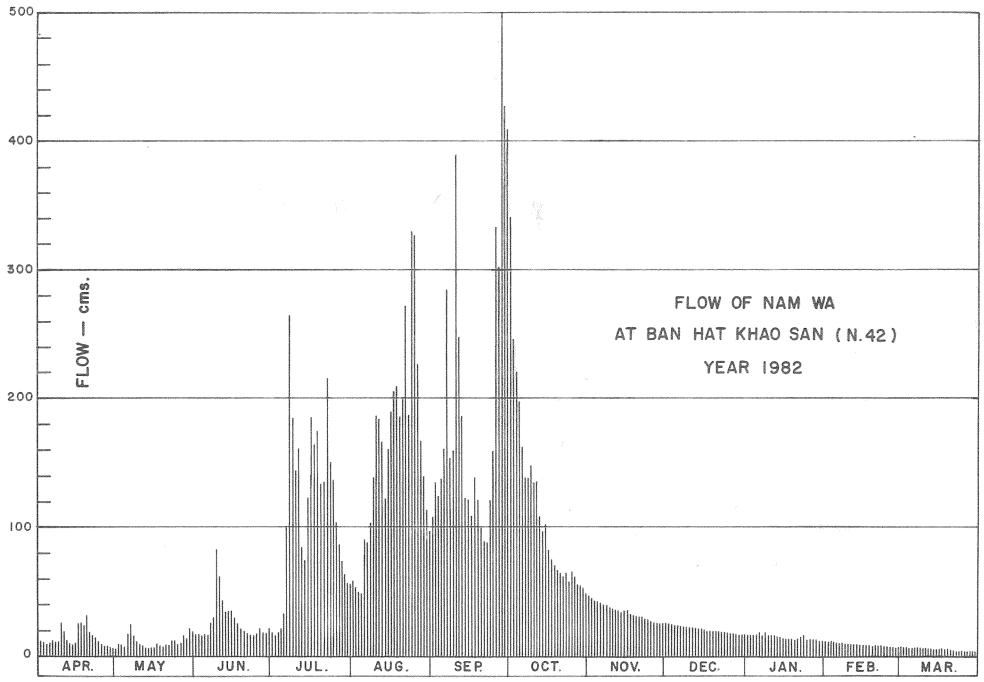
NAM WA AT BAN HAT KHAO SAN, NAN (N.42)

LOCATION	LAT. 18°-34'-08" N., LONG. 100°-52'-28" E., ON RIGHT BANK AT BAN HAT KHAO SAN, TAMBON LAI NAN, AMPHOE SA, NAN.
DRAINAGE AREA	2,107 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	TOP OF THE GAGE SITE.
ELEVATION	+11.892 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.69	1.61	1.75	1.75	2.25	2.74	4.19	2.11	1.86	1.75	1.68	1.61	
2	1.67	1.66	1.76	1.75	2.21	3.00	3.88	2.08	1.86	1.74	1.67	1.61	
3	1.65	1.63	1.72	1.79	2.17	2.90	3.65	2.07	1.85	1.74	1.67	1.60	
4	1.63	1.61	1.76	1.81	2.12	3.00	3.60	2.07	1.85	1.74	1.67	1.60	
5	1.66	1.70	1.74	1.97	2.21	3.15	3.36	2.05	1.84	1.74	1.66	1.60	
6	1.68	1.85	1.74	2.70	2.58	4.02	3.15	2.04	1.83	1.77	1.66	1.60	
7	1.66	1.83	1.90	3.91	2.56	3.37	3.03	2.03	1.83	1.75	1.66	1.60	
8	1.64	1.71	1.93	3.60	2.81	3.15	3.03	2.02	1.82	1.77	1.65	1.60	
9	1.87	1.66	2.50	3.06	2.99	3.21	3.10	2.00	1.82	1.74	1.65	1.60	
10	1.84	1.64	2.30	3.21	3.41	4.54	2.99	2.00	1.81	1.73	1.65	1.60	
11	1.70	1.63	2.10	2.73	3.40	3.84	3.00	1.99	1.81	1.73	1.65	1.59	
12	1.67	1.61	1.97	2.53	3.30	3.38	2.86	1.98	1.81	1.73	1.65	1.59	
13	1.64	1.61	1.97	2.40	3.09	3.14	2.68	1.97	1.80	1.72	1.64	1.59	
14	1.63	1.60	1.98	2.87	2.90	2.90	2.62	1.96	1.80	1.72	1.64	1.58	
15	1.66	1.60	1.98	3.01	3.34	2.89	2.69	1.99	1.80	1.71	1.64	1.58	
16	1.86	1.61	1.91	3.40	3.53	2.74	2.51	1.98	1.79	1.70	1.64	1.58	
17	1.87	1.66	1.86	3.24	3.56	3.02	2.43	1.95	1.79	1.70	1.63	1.58	
18	1.84	1.64	1.82	3.32	3.52	2.90	2.37	1.94	1.78	1.70	1.63	1.58	
19	1.94	1.62	1.79	3.21	3.40	2.77	2.34	1.93	1.78	1.70	1.63	1.59	
20	1.79	1.63	1.78	2.98	3.49	2.65	2.31	1.93	1.78	1.70	1.63	1.58	
21	1.74	1.61	1.77	3.00	3.94	2.56	2.31	1.92	1.78	1.70	1.63	1.58	
22	1.72	1.67	1.75	3.61	3.82	2.55	2.27	1.91	1.77	1.73	1.63	1.57	
23	1.72	1.70	1.74	3.16	3.42	2.90	2.31	1.90	1.77	1.75	1.62	1.57	
24	1.68	1.69	1.74	3.09	4.25	3.06	2.23	1.90	1.77	1.71	1.62	1.57	
25	1.65	1.65	1.78	2.83	4.24	3.48	2.32	1.88	1.77	1.70	1.62	1.56	
26	1.63	1.66	1.82	2.65	3.73	4.27	2.29	1.88	1.76	1.69	1.62	1.56	
27	1.63	1.74	1.78	2.50	3.42	4.11	2.22	1.88	1.76	1.69	1.62	1.55	
28	1.62	1.71	1.76	2.39	3.17	5.32	2.22	1.87	1.76	1.69	1.61	1.55	
29	1.61	1.81	1.82	2.30	2.94	4.77	2.19	1.87	1.75	1.68		1.55	
30	1.61	1.78	1.78	2.24	2.76	4.64	2.16	1.86	1.75	1.68		1.55	
31		1.77		2.23	2.63		2.13		1.75	1.68		1.55	
MEAN	1.71	1.67	1.87	2.75	3.13	3.37	2.72	1.97	1.80	1.72	1.64	1.58	
MAX	1.94	1.85	2.50	3.91	4.25	5.32	4.19	2.11	1.86	1.77	1.68	1.61	5.32
MIN	1.61	1.60	1.72	1.75	2.12	2.55	2.13	1.86	1.75	1.68	1.61	1.55	1.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.05 M (A.D), AT 14.25 HOURS, ON SEP 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.03 M (A.D)
LEFT BANK ELEVATION 17.79 M (A.D)
RIGHT BANK ELEVATION 12.25 M (A.D), DRAINAGE AREA 2107 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.30	7.70	17.87	17.87	59.63	108.20	318.10	47.12	26.40	17.87	12.60	7.70	
2	11.90	11.20	18.65	17.87	55.93	136.50	261.00	44.55	26.40	17.10	11.90	7.70	
3	10.50	9.10	15.55	20.97	52.38	125.00	223.00	43.70	25.63	17.10	11.90	7.00	
4	9.10	7.70	18.65	22.52	48.00	136.50	215.00	43.70	25.63	17.10	11.90	7.00	
5	11.20	14.00	17.10	35.28	55.93	154.00	180.60	42.00	24.85	17.10	11.20	7.00	
6	12.60	25.63	17.10	104.00	91.75	285.80	154.00	41.15	24.08	19.42	11.20	7.00	
7	11.20	24.08	29.50	266.25	89.75	181.95	139.95	40.30	24.08	17.87	11.20	7.00	
8	9.80	14.77	31.97	215.00	115.55	154.00	139.95	39.45	23.30	19.42	10.50	7.00	
9	27.18	11.20	83.75	143.40	135.35	161.25	148.00	37.75	23.30	17.10	10.50	7.00	
10	24.85	9.80	64.25	161.25	187.40	388.40	135.35	37.75	22.52	16.32	10.50	7.00	
11	14.00	9.10	46.25	107.15	186.00	254.00	136.50	36.93	22.52	16.32	10.50	6.30	
12	11.90	7.70	35.28	86.75	172.50	183.30	120.80	36.10	22.52	16.32	10.50	6.30	
13	9.80	7.70	35.28	74.00	146.85	152.80	101.95	35.28	21.75	15.55	9.80	6.30	
14	9.10	7.00	36.10	121.85	125.00	125.00	95.80	34.45	21.75	15.55	9.80	5.60	
15	11.20	7.00	36.10	137.65	177.90	123.95	102.98	36.93	21.75	14.77	9.80	5.60	
16	26.40	7.70	30.32	186.00	204.50	108.20	84.75	36.10	20.97	14.00	9.80	5.60	
17	27.18	11.20	26.40	165.00	209.00	138.80	76.93	33.63	20.97	14.00	9.10	5.60	
18	24.85	9.80	23.30	175.20	203.00	125.00	71.07	32.80	20.20	14.00	9.10	5.60	
19	32.80	8.40	20.97	161.25	186.00	111.35	68.15	31.97	20.20	14.00	9.10	6.30	
20	20.97	9.10	20.20	134.20	198.60	98.88	65.22	31.97	20.20	14.00	9.10	5.60	
21	17.10	7.70	19.42	136.50	271.50	89.75	65.22	31.15	20.20	14.00	9.10	5.60	
22	15.55	11.90	17.87	216.60	250.50	88.75	61.48	30.32	19.42	16.32	9.10	4.90	
23	15.55	14.00	17.10	155.20	188.80	125.00	65.22	29.50	19.42	17.87	8.40	4.90	
24	12.60	13.30	17.10	146.85	329.50	143.40	57.78	29.50	19.42	14.77	8.40	4.90	
25	10.50	10.50	20.20	117.65	327.60	197.20	66.20	27.95	19.42	14.00	8.40	4.20	
26	9.10	11.20	23.30	98.88	235.80	333.30	63.33	27.95	18.65	13.30	8.40	4.20	
27	9.10	17.10	20.20	83.75	188.80	302.90	56.85	27.95	18.65	13.30	8.40	3.50	
28	8.40	14.77	18.65	73.03	156.40	564.80	56.85	27.18	18.65	13.30	7.70	3.50	
29	7.70	22.52	23.30	64.25	129.60	437.40	54.13	27.18	17.87	12.60		3.50	
30	7.70	20.20	20.20	58.70	110.30	409.40	51.50	26.40	17.87	12.60		3.50	
31		19.42		57.78	96.83		48.88		17.87	12.60		3.50	
TOTAL	443.13	382.49	821.93	3562.65	4986.65	5944.78	3486.54	1048.71	666.46	479.57	277.90	176.40	22277.21 CMSDAY
MEAN	14.77	12.34	27.40	114.92	160.86	198.16	112.47	34.96	21.50	15.47	9.93	5.69	61.03 CMS
MAX	32.80	25.63	83.75	266.25	329.50	564.80	318.10	47.12	26.40	19.42	12.60	7.70	564.80 CMS
MIN	7.70	7.00	15.55	17.87	48.00	88.75	48.88	26.40	17.87	12.60	7.70	3.50	3.50 CMS
RUNOFF	38.286	33.047	71.015	307.813	430.847	513.629	301.237	90.609	57.582	41.435	24.011	15.241	1924.751 MCM

MOMENTARY PEAK 746.00 CMS, AT 6.05 M (A.D), AT 14.25 HOURS, ON SEP 28, 1982

RUNOFF YIELD 28.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 354.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

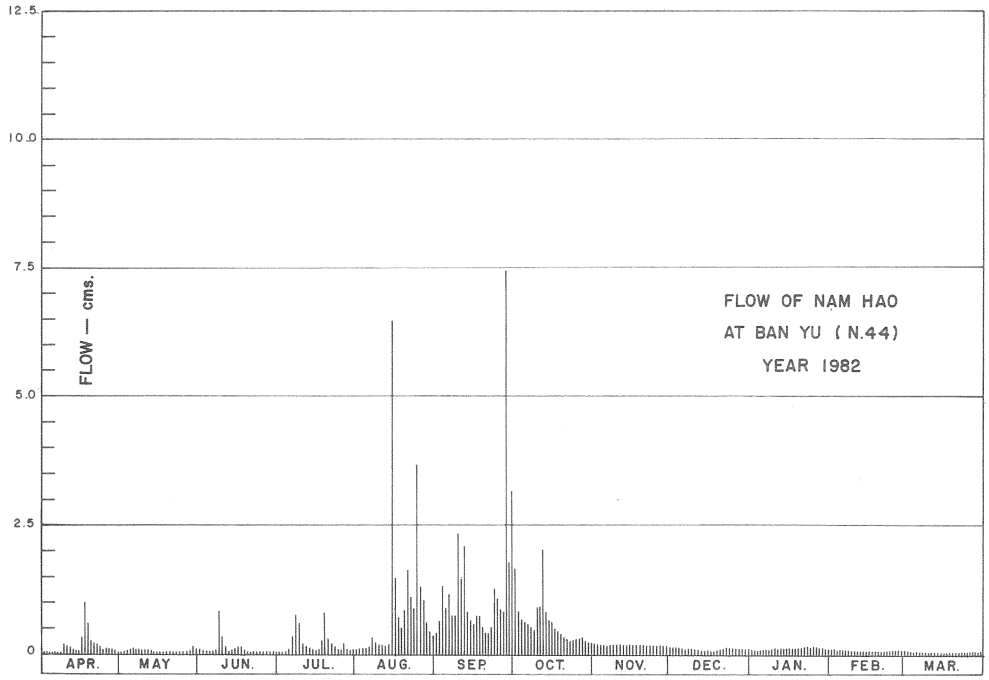
NAM HAO AT BAN NA PHUAK, NAN (N.44)

LOCATION	LAT. 19°-05'-06" N., LONG. 100°-50'-59" E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE, ALONG THA WANG PHA-SILA PHET ROAD AT BAN NA PHUAK, TAMBON YOM, AMPHOE THA WANG PHA, NAN.
DRAINAGE AREA	41 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR B.M.5 OF HIGHWAYS DEPARTMENT.
ELEVATION	+6.752 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.17	0.19	0.14	0.23	0.40	0.67	0.32	0.28	0.24	0.22	0.20	
2	0.13	0.17	0.19	0.15	0.22	0.45	0.61	0.31	0.27	0.24	0.22	0.19	
3	0.11	0.17	0.19	0.15	0.22	0.50	0.51	0.31	0.26	0.23	0.22	0.19	
4	0.11	0.19	0.19	0.16	0.23	0.59	0.48	0.30	0.26	0.22	0.22	0.18	
5	0.11	0.20	0.16	0.16	0.25	0.52	0.46	0.30	0.26	0.22	0.22	0.16	
6	0.11	0.24	0.16	0.27	0.26	0.56	0.45	0.30	0.24	0.22	0.21	0.14	
7	0.10	0.23	0.15	0.37	0.37	0.49	0.45	0.30	0.23	0.22	0.21	0.14	
8	0.11	0.22	0.50	0.49	0.34	0.48	0.43	0.30	0.25	0.22	0.20	0.14	
9	0.30	0.21	0.44	0.47	0.30	0.71	0.41	0.30	0.25	0.23	0.20	0.16	
10	0.26	0.19	0.31	0.43	0.29	0.66	0.52	0.30	0.25	0.23	0.19	0.16	
11	0.23	0.19	0.26	0.31	0.29	0.61	0.51	0.30	0.25	0.23	0.19	0.16	
12	0.23	0.19	0.19	0.29	0.29	0.69	0.68	0.30	0.23	0.23	0.20	0.15	
13	0.19	0.18	0.20	0.26	0.28	0.51	0.50	0.30	0.21	0.23	0.20	0.14	
14	0.17	0.15	0.23	0.22	0.30	0.47	0.50	0.30	0.20	0.23	0.20	0.14	
15	0.19	0.14	0.24	0.22	1.01	0.45	0.46	0.30	0.23	0.23	0.19	0.15	
16	0.33	0.12	0.28	0.21	0.63	0.45	0.46	0.30	0.19	0.23	0.19	0.14	
17	0.53	0.12	0.27	0.20	0.51	0.49	0.43	0.30	0.20	0.24	0.19	0.14	
18	0.46	0.12	0.22	0.32	0.43	0.48	0.40	0.30	0.20	0.24	0.19	0.14	
19	0.32	0.12	0.17	0.50	0.50	0.44	0.39	0.30	0.20	0.24	0.19	0.14	
20	0.30	0.13	0.16	0.37	0.56	0.40	0.38	0.30	0.20	0.24	0.19	0.14	
21	0.30	0.15	0.16	0.33	0.63	0.40	0.35	0.30	0.22	0.25	0.20	0.14	
22	0.29	0.16	0.16	0.32	0.57	0.40	0.35	0.30	0.23	0.26	0.20	0.14	
23	0.25	0.16	0.15	0.31	0.52	0.45	0.34	0.30	0.25	0.27	0.20	0.14	
24	0.22	0.16	0.14	0.28	0.83	0.58	0.33	0.29	0.25	0.27	0.20	0.14	
25	0.20	0.15	0.15	0.22	0.76	0.54	0.34	0.29	0.25	0.26	0.20	0.14	
26	0.22	0.16	0.15	0.22	0.59	0.51	0.36	0.29	0.24	0.26	0.20	0.15	
27	0.23	0.17	0.15	0.32	0.54	0.50	0.36	0.29	0.24	0.25	0.20	0.14	
28	0.21	0.17	0.15	0.23	0.47	1.06	0.36	0.29	0.24	0.25	0.20	0.14	
29	0.18	0.28	0.14	0.22	0.44	0.65	0.34	0.29	0.24	0.25		0.14	
30	0.17	0.24	0.13	0.22	0.40	0.79	0.33	0.28	0.24	0.24		0.14	
31		0.21		0.22	0.37		0.31		0.24	0.23		0.14	
MEAN	0.22	0.18	0.21	0.28	0.44	0.54	0.43	0.30	0.24	0.24	0.20	0.15	
MAX	0.53	0.28	0.50	0.50	1.01	1.06	0.68	0.32	0.28	0.27	0.22	0.20	1.06
MIN	0.10	0.12	0.13	0.14	0.22	0.40	0.31	0.28	0.19	0.22	0.19	0.14	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.30 M (A.D), AT 6.00 HOURS, ON AUG 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.18 M (A.D)
LEFT BANK ELEVATION 5.77 M (A.D)
RIGHT BANK ELEVATION 5.77 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.05	0.06	0.03	0.11	0.43	1.97	0.25	0.17	0.12	0.10	0.07	
2	0.02	0.05	0.06	0.04	0.10	0.62	1.47	0.22	0.16	0.12	0.10	0.06	
3	0.01	0.05	0.06	0.04	0.10	0.82	0.88	0.22	0.15	0.11	0.10	0.06	
4	0.01	0.06	0.06	0.04	0.11	1.33	0.74	0.20	0.15	0.10	0.10	0.06	
5	0.01	0.07	0.04	0.04	0.13	0.93	0.66	0.20	0.15	0.10	0.10	0.04	
6	0.01	0.12	0.04	0.16	0.15	1.16	0.62	0.20	0.12	0.10	0.08	0.03	
7	0.00	0.11	0.04	0.36	0.36	0.78	0.62	0.20	0.11	0.10	0.08	0.03	
8	0.01	0.10	0.82	0.78	0.29	0.74	0.55	0.20	0.13	0.10	0.07	0.03	
9	0.20	0.08	0.59	0.70	0.20	2.33	0.47	0.20	0.13	0.11	0.07	0.04	
10	0.15	0.06	0.22	0.55	0.19	1.89	0.93	0.20	0.13	0.11	0.06	0.04	
11	0.11	0.06	0.15	0.22	0.19	1.47	0.88	0.20	0.13	0.11	0.06	0.04	
12	0.11	0.06	0.06	0.19	0.19	2.14	2.05	0.20	0.11	0.11	0.07	0.04	
13	0.06	0.06	0.07	0.15	0.17	0.88	0.82	0.20	0.08	0.11	0.07	0.03	
14	0.05	0.04	0.11	0.10	0.20	0.70	0.82	0.20	0.07	0.11	0.07	0.03	
15	0.06	0.03	0.12	0.10	6.50	0.62	0.66	0.20	0.11	0.11	0.06	0.04	
16	0.27	0.01	0.17	0.08	1.64	0.62	0.66	0.20	0.06	0.11	0.06	0.03	
17	0.99	0.01	0.16	0.07	0.88	0.78	0.55	0.20	0.07	0.12	0.06	0.03	
18	0.66	0.01	0.10	0.25	0.55	0.74	0.43	0.20	0.07	0.12	0.06	0.03	
19	0.25	0.01	0.05	0.82	0.82	0.59	0.41	0.20	0.07	0.12	0.06	0.03	
20	0.20	0.02	0.04	0.36	1.16	0.43	0.38	0.20	0.07	0.12	0.06	0.03	
21	0.20	0.04	0.04	0.27	1.64	0.43	0.31	0.20	0.10	0.13	0.07	0.03	
22	0.19	0.04	0.04	0.25	1.22	0.43	0.31	0.20	0.11	0.15	0.07	0.03	
23	0.13	0.04	0.04	0.22	0.93	0.62	0.29	0.20	0.13	0.16	0.07	0.03	
24	0.10	0.04	0.03	0.17	3.70	1.28	0.27	0.19	0.13	0.16	0.07	0.03	
25	0.07	0.04	0.04	0.10	2.87	1.05	0.29	0.19	0.13	0.15	0.07	0.03	
26	0.10	0.04	0.04	0.10	1.33	0.88	0.34	0.19	0.12	0.15	0.07	0.04	
27	0.11	0.05	0.04	0.25	1.05	0.82	0.34	0.19	0.12	0.13	0.07	0.03	
28	0.08	0.05	0.04	0.11	0.70	7.47	0.34	0.19	0.12	0.13	0.07	0.03	
29	0.06	0.17	0.03	0.10	0.59	1.80	0.29	0.19	0.12	0.13		0.03	
30	0.05	0.12	0.02	0.10	0.43	3.19	0.27	0.17	0.12	0.12		0.03	
31		0.08		0.10	0.36		0.22		0.12	0.11		0.03	
TOTAL	4.30	1.77	3.38	6.85	28.86	37.97	19.84	6.00	3.56	3.73	2.05	1.13	119.44 CMSDAY
MEAN	0.14	0.06	0.11	0.22	0.93	1.27	0.64	0.20	0.11	0.12	0.07	0.04	0.33 CMS
MAX	0.99	0.17	0.82	0.82	6.50	7.47	2.05	0.25	0.17	0.16	0.10	0.07	7.47 CMS
MIN	0.00	0.01	0.02	0.03	0.10	0.43	0.22	0.17	0.06	0.10	0.06	0.03	0.00 CMS
RUNOFF	0.372	0.153	0.292	0.592	2.494	3.281	1.714	0.518	0.308	0.322	0.177	0.098	10.320 MCM

MOMENTARY PEAK 13.60 CMS, AT 1.30 M (A.D), AT 6.00 HOURS, ON AUG 15, 1982

RUNOFF YIELD 7.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 331.71 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

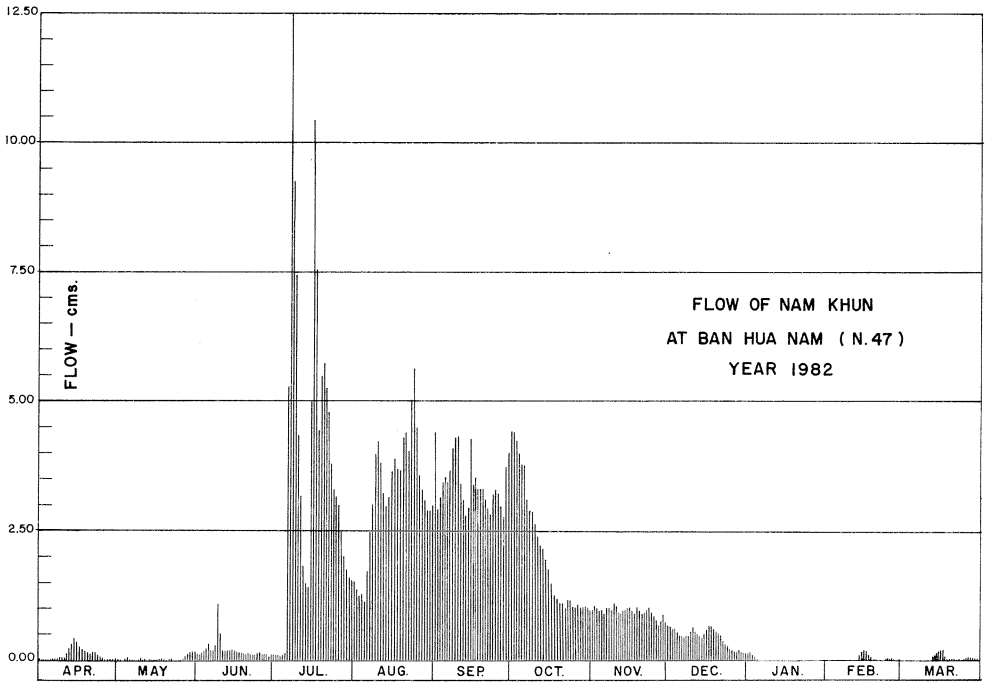
NAM KHUN AT BAN HUA NAM, NAN (N.47)

LOCATION	LAT. 19°-08'-36" N., LONG. 100°-57'-08" E., ON LEFT BANK NEAR WAT PA MUAT AT BAN HUA NAM, AMPHOE PUA, NAN.
DRAINAGE AREA	35 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE GAGE OBSERVER'S HOUSE.
ELEVATION	+15.652 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. ESTIMATED GAGE HEIGHT FROM JULY 6-15, 1982. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.00	0.98	1.06	1.05	1.32	1.59	1.59	1.24	1.20	1.06	0.95	0.98	
2	1.00	0.97	1.05	1.04	1.30	1.46	1.59	1.25	1.19	1.08	0.94	0.98	
3	0.99	0.99	1.07	1.04	1.28	1.48	1.58	1.25	1.19	1.04	0.95	0.99	
4	0.99	1.01	1.09	1.04	1.29	1.51	1.56	1.24	1.19	0.99	0.94	1.00	
5	1.00	1.02	1.12	1.05	1.26	1.52	1.54	1.24	1.16	0.98	1.02	0.98	
6	0.99	1.00	1.09	1.65	1.34	1.51	1.50	1.23	1.16	0.96	1.03	0.96	
7	1.00	0.99	1.08	2.10	1.41	1.53	1.48	1.25	1.16	0.94	1.03	0.95	
8	1.01	0.99	1.13	1.90	1.48	1.56	1.46	1.25	1.16	0.95	1.03	0.95	
9	1.01	0.99	1.26	1.80	1.55	1.58	1.46	1.24	1.16	0.94	1.03	0.97	
10	1.01	1.01	1.09	1.60	1.58	1.58	1.44	1.26	1.18	0.96	1.04	0.98	
11	1.06	0.98	1.08	1.45	1.54	1.51	1.42	1.25	1.19	0.95	1.02	0.99	
12	1.10	1.00	1.09	1.35	1.50	1.49	1.40	1.23	1.17	0.94	1.03	1.01	
13	1.13	1.00	1.08	1.31	1.47	1.45	1.39	1.24	1.15	0.96	1.04	1.00	
14	1.15	0.99	1.09	1.30	1.47	1.47	1.37	1.24	1.15	0.95	1.05	1.05	
15	1.13	0.97	1.10	1.55	1.49	1.58	1.35	1.25	1.16	0.94	1.04	1.07	
16	1.11	0.98	1.08	1.96	1.53	1.51	1.33	1.25	1.18	0.95	1.03	1.09	
17	1.10	1.00	1.07	1.82	1.55	1.52	1.30	1.24	1.20	0.96	1.02	1.10	
18	1.08	1.01	1.05	1.65	1.53	1.50	1.28	1.23	1.19	0.97	1.01	1.01	
19	1.07	0.99	1.05	1.67	1.53	1.50	1.27	1.25	1.18	0.96	1.03	0.99	
20	1.06	0.98	1.05	1.69	1.58	1.50	1.26	1.24	1.17	0.95	1.04	0.97	
21	1.06	0.98	1.06	1.66	1.59	1.48	1.26	1.23	1.16	0.95	1.05	0.96	
22	1.07	1.01	1.04	1.62	1.56	1.46	1.25	1.24	1.15	0.96	1.06	0.97	
23	1.05	0.99	1.03	1.55	1.63	1.45	1.27	1.25	1.13	0.95	1.07	0.99	
24	1.02	0.98	1.05	1.50	1.68	1.49	1.27	1.24	1.12	0.94	1.08	1.00	
25	1.01	0.98	1.06	1.49	1.62	1.50	1.25	1.23	1.10	0.93	1.10	1.01	
26	0.99	1.00	1.06	1.47	1.53	1.49	1.25	1.22	1.09	0.95	1.01	1.01	
27	1.00	1.02	1.06	1.42	1.50	1.47	1.26	1.20	1.07	0.94	1.01	1.01	
28	0.99	1.05	1.04	1.38	1.49	1.45	1.25	1.21	1.06	0.93	1.00	1.01	
29	0.97	1.06	1.04	1.35	1.46	1.54	1.25	1.23	1.09	0.94		0.99	
30	0.99	1.08	1.05	1.33	1.46	1.56	1.25	1.21	1.07	0.95		0.99	
31		1.07		1.32	1.47		1.24		1.05	0.94		0.99	
MEAN	1.04	1.00	1.08	1.49	1.48	1.51	1.37	1.24	1.15	0.96	1.02	1.00	
MAX	1.15	1.08	1.26	2.10	1.68	1.59	1.59	1.26	1.20	1.08	1.10	1.10	2.10
MIN	0.97	0.97	1.03	1.04	1.26	1.45	1.24	1.20	1.05	0.93	0.94	0.95	0.93

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.35 M (A.D), AT 14.00 HOURS, ON JUL 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.31 M (A.D)
LEFT BANK ELEVATION 4.50 M (A.D)
RIGHT BANK ELEVATION 7.15 M (A.D), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.02	0.14	0.12	1.55	4.41	4.41	0.95	0.67	0.14	0.01	0.02	
2	0.02	0.01	0.12	0.10	1.38	2.88	4.41	1.02	0.63	0.18	0.01	0.02	
3	0.02	0.02	0.16	0.10	1.24	3.09	4.28	1.02	0.63	0.10	0.01	0.02	
4	0.02	0.04	0.20	0.10	1.31	3.42	4.04	0.95	0.63	0.02	0.01	0.02	
5	0.02	0.06	0.31	0.12	1.10	3.55	3.79	0.95	0.49	0.02	0.06	0.02	
6	0.02	0.02	0.20	5.21	1.73	3.42	3.30	0.88	0.49	0.01	0.08	0.01	
7	0.02	0.02	0.18	13.56	2.35	3.67	3.09	1.02	0.49	0.01	0.08	0.01	
8	0.04	0.02	0.35	9.20	3.09	4.04	2.88	1.02	0.49	0.01	0.08	0.01	
9	0.04	0.02	1.10	7.43	3.91	4.28	2.88	0.95	0.49	0.01	0.08	0.01	
10	0.04	0.04	0.20	4.53	4.28	4.28	2.67	1.10	0.58	0.01	0.10	0.02	
11	0.14	0.02	0.18	2.78	3.79	3.42	2.46	1.02	0.63	0.01	0.06	0.02	
12	0.22	0.02	0.20	1.82	3.30	3.20	2.25	0.88	0.53	0.01	0.08	0.04	
13	0.35	0.02	0.18	1.47	2.99	2.78	2.16	0.95	0.44	0.01	0.10	0.02	
14	0.44	0.02	0.20	1.38	2.99	2.99	1.99	0.95	0.44	0.01	0.12	0.12	
15	0.35	0.01	0.22	3.91	3.20	4.28	1.82	1.02	0.49	0.01	0.10	0.16	
16	0.26	0.02	0.18	10.43	3.67	3.42	1.64	1.02	0.58	0.01	0.08	0.20	
17	0.22	0.02	0.16	7.78	3.91	3.55	1.38	0.95	0.67	0.01	0.06	0.22	
18	0.18	0.04	0.12	5.21	3.67	3.30	1.24	0.88	0.63	0.01	0.04	0.04	
19	0.16	0.02	0.12	5.49	3.67	3.30	1.17	1.02	0.58	0.01	0.08	0.02	
20	0.14	0.02	0.12	5.76	4.28	3.30	1.10	0.95	0.53	0.01	0.10	0.01	
21	0.14	0.02	0.14	5.35	4.41	3.09	1.10	0.88	0.49	0.01	0.12	0.01	
22	0.16	0.04	0.10	4.80	4.04	2.88	1.02	0.95	0.44	0.01	0.14	0.01	
23	0.12	0.02	0.08	3.91	4.94	2.78	1.17	1.02	0.35	0.01	0.16	0.02	
24	0.06	0.02	0.12	3.30	5.63	3.20	1.17	0.95	0.31	0.01	0.18	0.02	
25	0.04	0.02	0.14	3.20	4.80	3.30	1.02	0.88	0.22	0.01	0.22	0.04	
26	0.02	0.02	0.14	2.99	3.67	3.20	1.02	0.81	0.20	0.01	0.04	0.04	
27	0.02	0.06	0.14	2.46	3.30	2.99	1.10	0.67	0.16	0.01	0.04	0.04	
28	0.02	0.12	0.10	2.08	3.20	2.78	1.02	0.74	0.14	0.01	0.02	0.04	
29	0.01	0.14	0.10	1.82	2.88	3.79	1.02	0.88	0.20	0.01		0.02	
30	0.02	0.18	0.12	1.64	2.88	4.04	1.02	0.74	0.16	0.01		0.02	
31		0.16		1.55	2.99		0.95		0.12	0.01		0.02	
TOTAL	3.33	1.28	5.82	119.60	100.15	102.63	64.57	28.02	13.90	0.72	2.26	1.29	443.57 CMSDAY
MEAN	0.11	0.04	0.19	3.86	3.23	3.42	2.08	0.93	0.45	0.02	0.08	0.04	1.22 CMS
MAX	0.44	0.18	1.10	13.56	5.63	4.41	4.41	1.10	0.67	0.18	0.22	0.22	13.56 CMS
MIN	0.01	0.01	0.08	0.10	1.10	2.78	0.95	0.67	0.12	0.01	0.01	0.01	0.01 CMS
RUNOFF	0.288	0.111	0.503	10.333	8.653	8.867	5.579	2.421	1.201	0.062	0.195	0.111	38.324 MCM

MOMENTARY PEAK 19.35 CMS, AT 2.35 M (A.D), AT 14.00 HOURS, ON JUL 7, 1982

RUNOFF YIELD 34.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 552.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

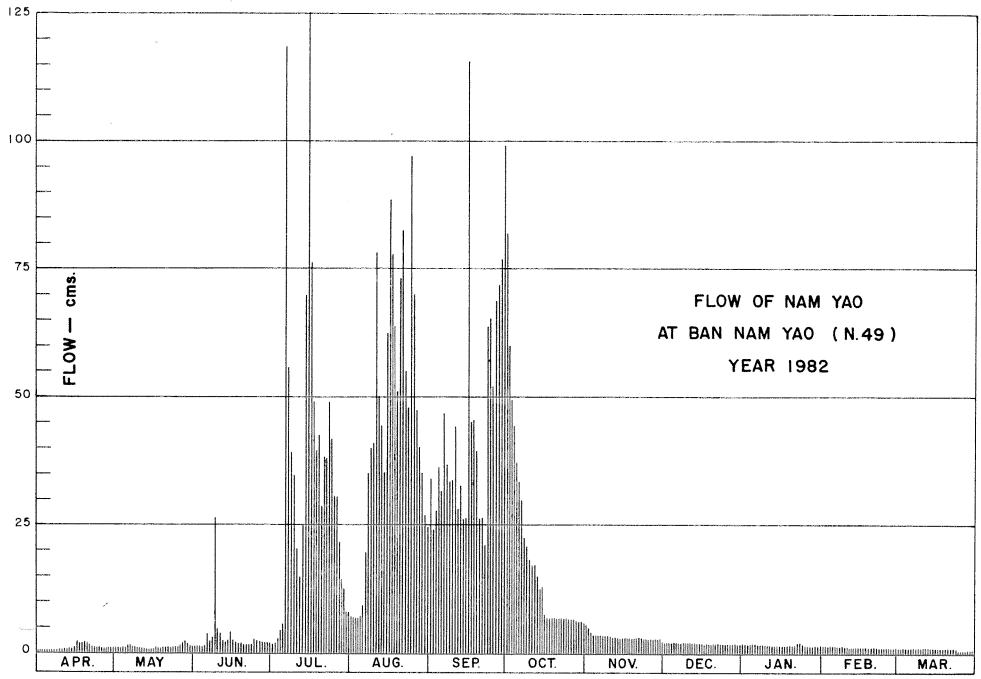
NAM YAO AT BAN NAM YAO, NAN (N.49)

LOCATION	LAT. 18°-59'-29" N., LONG. 100°-56'-32" E., ON RIGHT BANK DOWNSTREAM OF THE BRIDGE OF NAM YAO, ALONG PUA-SILA PHET ROAD AT BAN NAM YAO, AMPHOE PUA, NAN.
DRAINAGE AREA	155 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP OF STAFF GAGE.
ELEVATION	+6.052 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.34	1.34	1.35	1.37	1.48	1.62	1.86	1.45	1.39	1.37	1.36	1.34	
2	1.34	1.34	1.35	1.37	1.48	1.57	1.75	1.43	1.39	1.37	1.36	1.34	
3	1.34	1.34	1.35	1.39	1.48	1.59	1.71	1.42	1.39	1.37	1.36	1.34	
4	1.34	1.34	1.35	1.44	1.48	1.67	1.65	1.42	1.39	1.37	1.36	1.34	
5	1.34	1.35	1.35	1.46	1.50	1.64	1.63	1.42	1.38	1.37	1.36	1.34	
6	1.34	1.37	1.42	2.21	1.51	1.71	1.61	1.42	1.38	1.37	1.36	1.34	
7	1.34	1.36	1.38	1.80	1.62	1.64	1.57	1.42	1.38	1.37	1.36	1.34	
8	1.34	1.35	1.41	1.66	1.66	1.62	1.56	1.42	1.38	1.37	1.35	1.34	
9	1.34	1.34	1.58	1.64	1.67	1.62	1.55	1.42	1.38	1.36	1.35	1.34	
10	1.34	1.34	1.44	1.58	1.94	1.69	1.54	1.41	1.38	1.36	1.35	1.34	
11	1.35	1.33	1.41	1.54	1.75	1.65	1.54	1.41	1.38	1.36	1.35	1.34	
12	1.35	1.33	1.39	1.53	1.70	1.61	1.54	1.41	1.38	1.36	1.35	1.34	
13	1.35	1.32	1.39	1.58	1.66	1.58	1.52	1.41	1.38	1.36	1.35	1.34	
14	1.35	1.32	1.39	1.87	1.63	1.58	1.52	1.41	1.37	1.36	1.35	1.34	
15	1.37	1.32	1.43	2.28	1.83	2.19	1.50	1.41	1.37	1.36	1.35	1.33	
16	1.38	1.33	1.39	1.94	2.01	1.70	1.49	1.41	1.37	1.36	1.35	1.33	
17	1.37	1.34	1.38	1.73	1.92	1.70	1.48	1.41	1.37	1.36	1.35	1.33	
18	1.37	1.33	1.37	1.66	1.79	1.66	1.48	1.41	1.37	1.36	1.35	1.33	
19	1.38	1.33	1.37	1.68	1.75	1.63	1.48	1.41	1.37	1.36	1.35	1.33	
20	1.37	1.33	1.36	1.59	1.89	1.58	1.48	1.41	1.37	1.36	1.34	1.33	
21	1.36	1.33	1.36	1.65	1.97	1.58	1.48	1.41	1.37	1.36	1.34	1.33	
22	1.34	1.34	1.36	1.65	1.78	1.56	1.48	1.41	1.37	1.38	1.34	1.33	
23	1.34	1.35	1.36	1.73	1.72	1.84	1.48	1.40	1.37	1.38	1.34	1.33	
24	1.34	1.35	1.40	1.65	2.07	1.85	1.48	1.40	1.37	1.37	1.34	1.32	
25	1.34	1.34	1.39	1.60	1.88	1.75	1.48	1.40	1.37	1.36	1.34	1.32	
26	1.34	1.35	1.38	1.60	1.74	1.87	1.48	1.40	1.37	1.36	1.34	1.31	
27	1.34	1.37	1.38	1.56	1.67	1.89	1.48	1.40	1.37	1.36	1.34	1.31	
28	1.34	1.39	1.38	1.53	1.65	1.91	1.47	1.40	1.37	1.36	1.34	1.31	
29	1.34	1.36	1.38	1.52	1.60	1.94	1.47	1.40	1.37	1.36		1.31	
30	1.34	1.35	1.38	1.50	1.58	2.08	1.47	1.39	1.37	1.36		1.31	
31		1.35		1.50	1.57		1.46		1.37	1.36		1.31	
MEAN	1.35	1.34	1.39	1.64	1.71	1.72	1.54	1.41	1.38	1.36	1.35	1.33	
MAX	1.38	1.39	1.58	2.28	2.07	2.19	1.86	1.45	1.39	1.38	1.36	1.34	2.28
MIN	1.34	1.32	1.35	1.37	1.48	1.56	1.46	1.39	1.37	1.36	1.34	1.31	1.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.80 M (A.D), AT 6.00 HOURS, ON SEP 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.51 M (A.D)
LEFT BANK ELEVATION 9.41 M (A.D)
RIGHT BANK ELEVATION 8.45 M (A.D), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	1.08	1.35	1.89	6.94	33.88	66.58	5.35	2.43	1.89	1.62	1.08	
2	1.08	1.08	1.35	1.89	6.94	24.10	51.70	4.29	2.43	1.89	1.62	1.08	
3	1.08	1.08	1.35	2.43	6.94	28.70	46.66	3.76	2.43	1.89	1.62	1.08	
4	1.08	1.08	1.35	4.82	6.94	41.08	38.20	3.76	2.43	1.89	1.62	1.08	
5	1.08	1.35	1.35	5.88	8.00	36.76	35.32	3.76	2.16	1.89	1.62	1.08	
6	1.08	1.89	3.76	118.57	10.30	46.66	32.44	3.76	2.16	1.89	1.62	1.08	
7	1.08	1.62	2.16	58.00	33.88	36.76	24.10	3.76	2.16	1.89	1.62	1.08	
8	1.08	1.35	3.23	39.64	39.64	33.88	21.80	3.76	2.16	1.89	1.35	1.08	
9	1.08	1.08	26.40	36.76	41.08	33.88	19.50	3.76	2.16	1.62	1.35	1.08	
10	1.08	1.08	4.82	26.40	78.18	43.96	17.20	3.23	2.16	1.62	1.35	1.08	
11	1.35	0.81	3.23	17.20	51.70	38.20	17.20	3.23	2.16	1.62	1.35	1.08	
12	1.35	0.81	2.43	14.90	45.40	32.44	17.20	3.23	2.16	1.62	1.35	1.08	
13	1.35	0.54	2.43	26.40	39.64	26.40	12.60	3.23	2.16	1.62	1.35	1.08	
14	1.35	0.54	2.43	68.01	35.32	26.40	12.60	3.23	1.89	1.62	1.35	1.08	
15	1.89	0.54	4.29	129.56	62.29	115.48	8.00	3.23	1.89	1.62	1.35	0.81	
16	2.16	0.81	2.43	78.18	88.48	45.40	7.47	3.23	1.89	1.62	1.35	0.81	
17	1.89	1.08	2.16	49.18	75.24	45.40	6.94	3.23	1.89	1.62	1.35	0.81	
18	1.89	0.81	1.89	39.64	56.74	39.64	6.94	3.23	1.89	1.62	1.35	0.81	
19	2.16	0.81	1.89	42.52	51.70	35.32	6.94	3.23	1.89	1.62	1.35	0.81	
20	1.89	0.81	1.62	28.70	70.87	26.40	6.94	3.23	1.89	1.62	1.08	0.81	
21	1.62	0.81	1.62	38.20	82.59	26.40	6.94	3.23	1.89	1.62	1.08	0.81	
22	1.08	1.08	1.62	38.20	55.48	21.80	6.94	3.23	1.89	2.16	1.08	0.81	
23	1.08	1.35	1.62	49.18	47.92	63.72	6.94	2.70	1.89	2.16	1.08	0.81	
24	1.08	1.35	2.70	38.20	97.36	65.15	6.94	2.70	1.89	1.89	1.08	0.54	
25	1.08	1.08	2.43	31.00	69.44	51.70	6.94	2.70	1.89	1.62	1.08	0.54	
26	1.08	1.35	2.16	31.00	50.44	68.01	6.94	2.70	1.89	1.62	1.08	0.27	
27	1.08	1.89	2.16	21.80	41.08	70.87	6.94	2.70	1.89	1.62	1.08	0.27	
28	1.08	2.43	2.16	14.90	38.20	73.77	6.41	2.70	1.89	1.62	1.08	0.27	
29	1.08	1.62	2.16	12.60	31.00	78.18	6.41	2.70	1.89	1.62		0.27	
30	1.08	1.35	2.16	8.00	26.40	98.84	6.41	2.43	1.89	1.62		0.27	
31		1.35		8.00	24.10		5.88		1.89	1.62		0.27	
TOTAL	39.42	35.91	92.71	1081.65	1380.23	1409.18	530.02	99.28	63.18	53.73	37.26	25.11	4847.68 CMSDAY
MEAN	1.31	1.16	3.09	34.89	44.52	46.97	17.10	3.31	2.04	1.73	1.33	0.81	13.28 CMS
MAX	2.16	2.43	26.40	129.56	97.36	115.48	66.58	5.35	2.43	2.16	1.62	1.08	129.56 CMS
MIN	1.08	0.54	1.35	1.89	6.94	21.80	5.88	2.43	1.89	1.62	1.08	0.27	0.27 CMS
RUNOFF	3.406	3.103	8.010	93.455	119.252	121.753	45.794	8.578	5.459	4.642	3.219	2.170	418.840 MCM

MOMENTARY PEAK 214.00 CMS, AT 2.80 M (A.D), AT 6.00 HOURS, ON SEP 15, 1982
RUNOFF YIELD 85.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1380.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

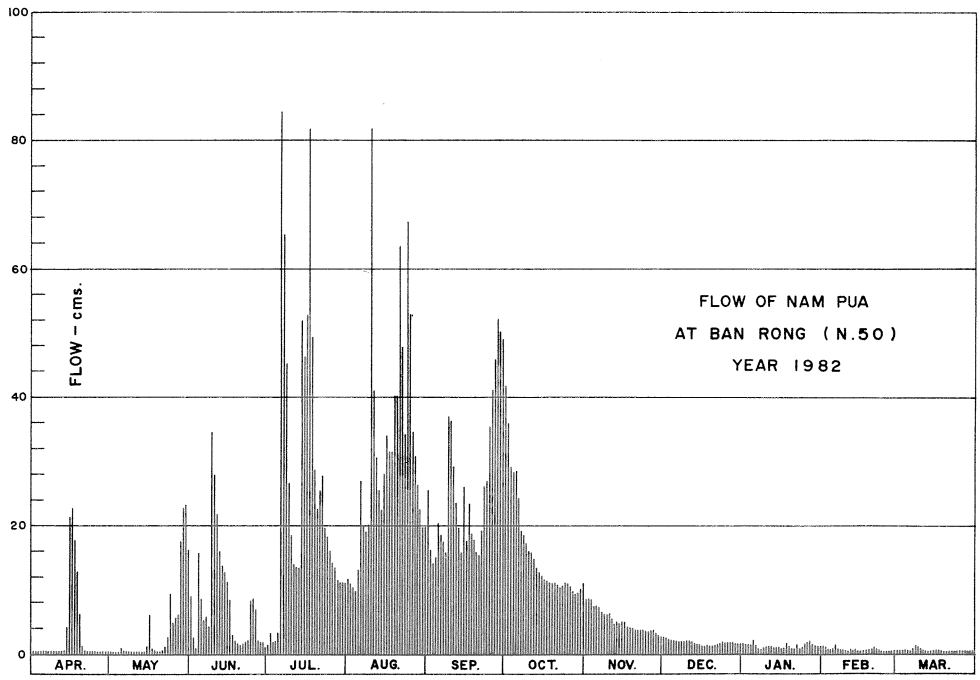
NAM PUA AT BAN RONG, NAN (N.50)

LOCATION	LAT. 19°-11'-38" N., LONG. 100°-55'-14" E., ON LEFT BANK DOWNSTREAM OF THE BRIDGE OF NAM PUA, ALONG PUA-THUNG CHANG ROAD AT BAN RONG, AMPHOE PUA, NAN.
DRAINAGE AREA	192 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.361 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.27	0.73	0.53	0.77	0.98	1.19	0.72	0.59	0.54	0.52	0.42	
2	0.27	0.31	0.58	0.61	0.76	0.85	1.10	0.72	0.58	0.53	0.51	0.47	
3	0.27	0.33	0.47	0.57	0.75	0.81	1.03	0.72	0.56	0.53	0.48	0.45	
4	0.28	0.33	0.84	0.54	0.74	0.83	1.02	0.70	0.56	0.53	0.47	0.45	
5	0.27	0.46	0.73	0.61	0.79	0.91	1.02	0.70	0.56	0.57	0.50	0.45	
6	0.25	0.45	0.65	1.60	1.00	0.88	0.96	0.70	0.55	0.52	0.53	0.41	
7	0.32	0.41	0.66	1.40	0.91	0.86	0.89	0.69	0.55	0.50	0.50	0.45	
8	0.29	0.39	0.63	1.20	0.89	0.84	0.88	0.68	0.55	0.47	0.48	0.52	
9	0.31	0.29	1.10	1.00	0.91	1.13	0.86	0.67	0.55	0.50	0.46	0.50	
10	0.30	0.31	0.99	0.88	1.58	1.12	0.84	0.68	0.55	0.51	0.44	0.48	
11	0.29	0.36	0.93	0.81	1.14	1.01	0.84	0.66	0.56	0.51	0.41	0.40	
12	0.29	0.31	0.85	0.80	1.04	0.94	0.82	0.64	0.55	0.52	0.47	0.39	
13	0.26	0.28	0.81	0.80	0.98	0.90	0.80	0.65	0.55	0.50	0.47	0.39	
14	0.26	0.27	0.79	1.30	0.94	0.84	0.79	0.64	0.54	0.50	0.49	0.36	
15	0.92	0.34	0.76	1.24	1.02	0.99	0.78	0.65	0.54	0.51	0.40	0.41	
16	0.94	0.67	0.72	1.32	1.10	0.87	0.77	0.65	0.53	0.50	0.40	0.45	
17	0.86	0.46	0.62	1.58	1.06	0.95	0.77	0.63	0.51	0.49	0.38	0.43	
18	0.79	0.42	0.57	1.27	1.06	0.88	0.76	0.63	0.53	0.54	0.45	0.43	
19	0.69	0.33	0.55	1.03	1.17	0.87	0.76	0.63	0.52	0.52	0.49	0.38	
20	0.46	0.40	0.53	0.94	1.17	0.84	0.76	0.62	0.52	0.48	0.50	0.39	
21	0.38	0.29	0.53	0.98	1.42	0.83	0.76	0.62	0.52	0.47	0.51	0.38	
22	0.30	0.48	0.55	1.01	1.24	0.92	0.75	0.62	0.53	0.53	0.50	0.38	
23	0.28	0.58	0.55	0.90	1.10	0.99	0.75	0.62	0.54	0.49	0.43	0.38	
24	0.28	0.73	0.71	0.88	1.45	1.00	0.76	0.62	0.55	0.50	0.37	0.38	
25	0.28	0.64	0.72	0.84	1.27	1.12	0.76	0.61	0.54	0.54	0.34	0.45	
26	0.28	0.66	0.70	0.81	1.12	1.19	0.75	0.62	0.55	0.55	0.32	0.44	
27	0.26	0.67	0.55	0.80	1.06	1.25	0.74	0.62	0.55	0.56	0.30	0.44	
28	0.28	0.87	0.55	0.77	0.99	1.30	0.73	0.61	0.54	0.53	0.31	0.43	
29	0.28	0.94	0.55	0.76	0.93	1.28	0.74	0.60	0.54	0.52		0.43	
30	0.28	0.95	0.48	0.76	0.90	1.27	0.74	0.59	0.54	0.52		0.38	
31		0.85		0.76	0.90		0.76		0.54	0.52		0.36	
MEAN	0.38	0.49	0.68	0.95	1.04	0.98	0.83	0.65	0.54	0.52	0.44	0.42	
MAX	0.94	0.95	1.10	1.60	1.58	1.30	1.19	0.72	0.59	0.57	0.53	0.52	1.60
MIN	0.25	0.27	0.47	0.53	0.74	0.81	0.73	0.59	0.51	0.47	0.30	0.36	0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.10 M (A.D), AT 12.00 HOURS, ON JUL 6, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.83 M (A.D)
LEFT BANK ELEVATION 4.36 M (A.D)
RIGHT BANK ELEVATION 5.39 M (A.D), DRAINAGE AREA 192 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.20	0.14	9.30	1.53	11.70	25.54	41.97	8.70	2.79	1.74	1.32	0.50	
2	0.14	0.22	2.58	3.45	11.10	16.60	34.50	8.70	2.58	1.53	1.11	0.75	
3	0.14	0.26	0.75	2.37	10.50	14.12	29.25	8.70	2.16	1.53	0.80	0.65	
4	0.16	0.26	15.98	1.74	9.90	15.36	28.50	7.50	2.16	1.53	0.75	0.65	
5	0.14	0.70	9.30	3.45	12.90	20.43	28.50	7.50	2.16	2.37	0.90	0.65	
6	0.10	0.65	5.25	84.30	27.00	18.46	24.08	7.50	1.95	1.32	1.53	0.45	
7	0.24	0.45	5.70	61.50	20.43	17.22	19.08	7.05	1.95	0.90	0.90	0.65	
8	0.18	0.38	4.35	42.80	19.08	15.98	18.46	6.60	1.95	0.75	0.80	1.32	
9	0.22	0.18	34.50	27.00	20.43	36.99	17.22	6.15	1.95	0.90	0.70	0.90	
10	0.20	0.22	26.27	18.46	81.94	36.16	15.98	6.60	1.95	1.11	0.60	0.80	
11	0.18	0.32	21.89	14.12	37.82	27.75	15.98	5.70	2.16	1.11	0.45	0.40	
12	0.18	0.22	16.60	13.50	30.00	22.62	14.74	4.80	1.95	1.32	0.75	0.38	
13	0.12	0.16	14.12	13.50	25.54	19.70	13.50	5.25	1.95	0.90	0.75	0.38	
14	0.12	0.14	12.90	51.90	22.62	15.98	12.90	4.80	1.74	0.90	0.85	0.32	
15	21.16	0.28	11.10	46.44	28.50	26.27	12.30	5.25	1.74	1.11	0.40	0.45	
16	22.62	6.15	8.70	53.82	34.50	17.84	11.70	5.25	1.53	0.90	0.40	0.65	
17	17.22	0.70	3.90	81.94	31.50	23.35	11.70	4.35	1.11	0.85	0.36	0.55	
18	12.90	0.50	2.37	49.17	31.50	18.46	11.10	4.35	1.53	1.74	0.65	0.55	
19	7.05	0.26	1.95	29.25	40.31	17.84	11.10	4.35	1.32	1.32	0.85	0.36	
20	0.70	0.40	1.53	22.62	40.31	15.98	11.10	3.90	1.32	0.80	0.90	0.38	
21	0.36	0.18	1.53	25.54	63.70	15.36	11.10	3.90	1.32	0.75	1.11	0.36	
22	0.20	0.80	1.95	27.75	46.44	21.16	10.50	3.90	1.53	1.53	0.90	0.36	
23	0.16	2.58	1.95	19.70	34.50	26.27	10.50	3.90	1.74	0.85	0.55	0.36	
24	0.16	9.30	8.10	18.46	67.00	27.00	11.10	3.90	1.95	0.90	0.34	0.36	
25	0.16	4.80	8.70	15.98	49.17	36.16	11.10	3.45	1.74	1.74	0.28	0.65	
26	0.16	5.70	7.50	14.12	36.16	41.97	10.50	3.90	1.95	1.95	0.24	0.60	
27	0.12	6.15	1.95	13.50	31.50	47.35	9.90	3.90	1.95	2.16	0.20	0.60	
28	0.16	17.84	1.95	11.70	26.27	51.90	9.30	3.45	1.74	1.53	0.22	0.55	
29	0.16	22.62	1.95	11.10	21.89	50.08	9.90	3.00	1.74	1.32		0.55	
30	0.16	23.35	0.80	11.10	19.70	49.17	9.90	2.79	1.74	1.32		0.36	
31		16.60		11.10	19.70		11.10		1.74	1.32		0.32	
TOTAL	85.77	122.51	245.42	802.91	963.61	789.07	498.56	159.09	57.09	40.00	19.61	16.81	3800.45 CMSDAY
MEAN	2.86	3.95	8.18	25.90	31.08	26.30	16.08	5.30	1.84	1.29	0.70	0.54	10.41 CMS
MAX	22.62	23.35	34.50	84.30	81.94	51.90	41.97	8.70	2.79	2.37	1.53	1.32	84.30 CMS
MIN	0.10	0.14	0.75	1.53	9.90	14.12	9.30	2.79	1.11	0.75	0.20	0.32	0.10 CMS
RUNOFF	7.411	10.585	21.204	69.371	83.256	68.176	43.076	13.745	4.933	3.456	1.694	1.452	328.359 MCM

MOMENTARY PEAK 189.50 CMS, AT 2.10 M (A.D), AT 12.00 HOURS, ON JUL 6, 1982
RUNOFF YIELD 54.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 986.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

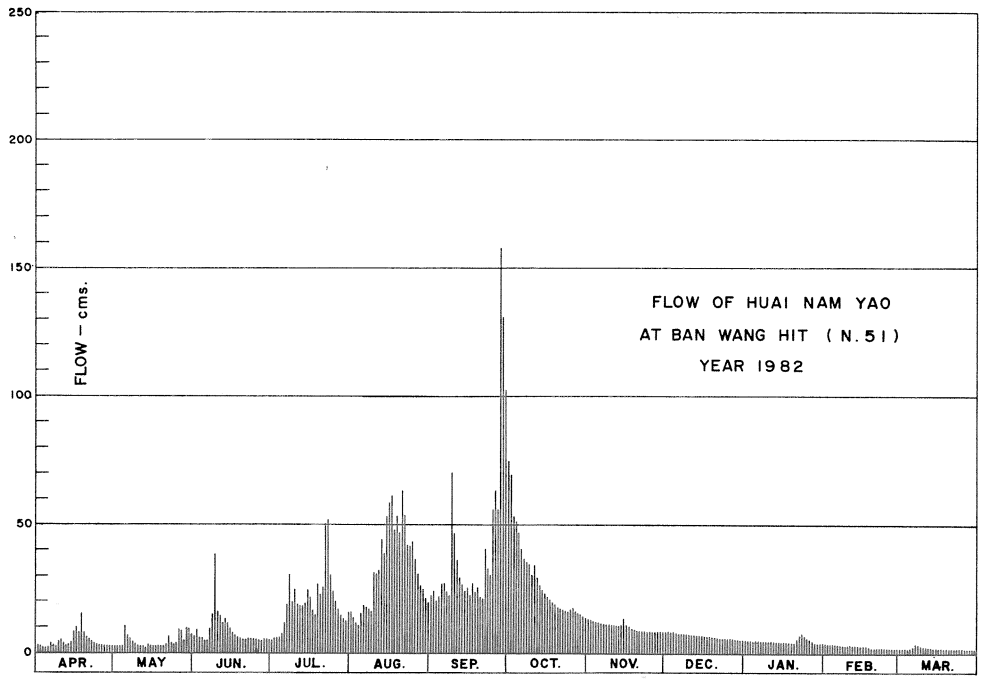
HUAI NAM YAO AT BAN WANG HIT, NAN (N.51)

LOCATION	LAT. 19°-09'-31" N., LONG. 100°-46'-56" E., ON RIGHT BANK BEHIND THE PHA TO TOBACCO HOUSE AT BAN WANG HIT, AMPHOE THA WANG PHA, NAN.
DRAINAGE AREA	774 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+230.10 M. (M.S.L.)
BENCH MARK	B.M. FROM MET.
LOCATION	ON LEFT BANK ABOUT 2 METERS UPSTREAM FROM MEASURING LINE.
ELEVATION	+237.344 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.84	230.82	230.99	230.93	231.35	231.51	232.77	231.25	231.05	230.93	230.87	230.78	
2	230.80	230.82	231.09	230.97	231.26	231.60	232.66	231.23	231.05	230.92	230.87	230.78	
3	230.80	230.82	230.97	230.97	231.19	231.49	232.34	231.22	231.04	230.92	230.86	230.78	
4	230.79	230.83	230.97	230.97	231.15	231.49	232.28	231.20	231.04	230.91	230.86	230.78	
5	230.79	231.14	230.91	231.03	231.32	231.68	232.12	231.20	231.03	230.93	230.85	230.78	
6	230.87	230.99	230.93	231.19	231.44	231.70	232.00	231.19	231.03	230.92	230.85	230.78	
7	230.83	230.94	231.10	231.49	231.41	231.62	231.92	231.18	231.03	230.91	230.85	230.85	
8	230.82	230.89	231.24	231.77	231.40	231.53	231.90	231.17	231.02	230.91	230.84	230.83	
9	230.86	230.85	231.97	231.46	231.32	232.67	231.89	231.17	231.02	230.91	230.84	230.81	
10	230.95	230.84	231.39	231.62	231.80	232.23	231.76	231.16	231.02	230.91	230.84	230.80	
11	230.87	230.83	231.29	231.44	231.78	232.00	231.88	231.16	231.01	230.90	230.84	230.79	
12	230.83	230.82	231.19	231.42	231.81	231.79	231.74	231.16	231.01	230.90	230.84	230.79	
13	230.85	230.80	231.24	231.41	232.12	231.68	231.67	231.15	231.01	230.90	230.84	230.78	
14	230.85	230.86	231.18	231.46	231.99	231.59	231.62	231.15	231.00	230.90	230.84	230.78	
15	231.05	230.82	231.09	231.62	232.33	231.66	231.58	231.25	231.00	230.90	230.83	230.78	
16	231.18	230.82	231.03	231.54	232.44	231.53	231.52	231.15	230.99	230.89	230.82	230.78	
17	231.03	230.82	230.98	231.38	232.48	231.68	231.50	231.12	230.99	230.89	230.82	230.78	
18	231.30	230.84	230.96	231.29	232.20	231.57	231.46	231.11	230.99	230.89	230.81	230.78	
19	231.06	230.82	230.94	231.69	232.33	231.64	231.43	231.09	230.98	230.89	230.79	230.77	
20	230.98	230.84	230.93	231.54	232.18	231.53	231.40	231.08	230.97	230.88	230.79	230.77	
21	230.96	230.83	230.93	231.64	232.53	231.49	231.39	231.07	230.97	230.90	230.79	230.76	
22	230.90	230.98	230.96	232.26	232.35	232.04	231.37	231.07	230.96	230.99	230.79	230.76	
23	230.86	230.89	230.94	232.29	232.06	231.84	231.36	231.06	230.96	231.02	230.79	230.76	
24	230.85	230.86	230.95	231.83	232.03	231.77	231.34	231.06	230.95	230.98	230.79	230.76	
25	230.83	230.84	230.94	231.57	232.09	232.35	231.36	231.06	230.95	230.96	230.79	230.76	
26	230.83	231.10	230.93	231.47	231.90	232.54	231.39	231.05	230.95	230.94	230.78	230.76	
27	230.82	231.08	230.92	231.37	231.78	232.38	231.33	231.05	230.94	230.91	230.78	230.75	
28	230.82	230.92	230.94	231.30	231.67	234.20	231.31	231.05	230.94	230.88	230.78	230.75	
29	230.81	231.12	230.94	231.24	231.62	233.63	231.29	231.05	230.93	230.88		230.75	
30	230.81	231.11	230.93	231.21	231.50	233.21	231.27	231.05	230.93	230.87		230.75	
31		231.02		231.32	231.45		231.26		230.93	230.87		230.75	
MEAN	230.89	230.90	231.06	231.44	231.82	231.99	231.68	231.13	230.99	230.91	230.82	230.78	
MAX	231.30	231.14	231.97	232.29	232.53	234.20	232.77	231.25	231.05	231.02	230.87	230.85	234.20
MIN	230.79	230.80	230.91	230.93	231.15	231.49	231.26	231.05	230.93	230.87	230.78	230.75	230.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 234.38 M (MSL), AT 12.00 HOURS, ON SEP 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 230.10 M (MSL), RIVER BED 229.95 M (MSL)
LEFT BANK ELEVATION 241.40 M (MSL)
RIGHT BANK ELEVATION 237.05 M (MSL), DRAINAGE AREA 774 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.92	2.46	6.51	5.04	16.45	21.33	75.54	13.55	8.07	5.04	3.61	1.60	
2	2.00	2.46	9.14	6.02	13.84	24.30	69.84	12.97	8.07	4.79	3.61	1.60	
3	2.00	2.46	6.02	6.02	11.83	20.69	54.40	12.68	7.81	4.79	3.38	1.60	
4	1.80	2.69	6.02	6.02	10.75	20.69	51.58	12.10	7.81	4.55	3.38	1.60	
5	1.80	10.48	4.55	7.54	15.58	27.06	44.38	12.10	7.54	5.04	3.15	1.60	
6	3.61	6.51	5.04	11.83	19.14	27.75	39.30	11.83	7.54	4.79	3.15	1.60	
7	2.69	5.28	9.40	20.69	18.21	24.99	36.06	11.56	7.54	4.55	3.15	3.15	
8	2.46	4.07	13.26	30.38	17.90	21.99	35.25	11.29	7.28	4.55	2.92	2.69	
9	3.38	3.15	38.09	19.76	15.58	70.36	34.88	11.29	7.28	4.55	2.92	2.23	
10	5.53	2.92	17.61	24.99	31.50	49.28	30.00	11.02	7.28	4.55	2.92	2.00	
11	3.61	2.69	14.71	19.14	30.75	39.30	34.50	11.02	7.02	4.30	2.92	1.80	
12	2.69	2.46	11.83	18.52	31.88	31.13	29.25	11.02	7.02	4.30	2.92	1.80	
13	3.15	2.00	13.26	18.21	44.38	27.06	26.72	10.75	7.02	4.30	2.92	1.60	
14	3.15	3.38	11.56	19.76	38.90	23.97	24.99	10.75	6.75	4.30	2.92	1.60	
15	8.07	2.46	9.14	24.99	53.92	26.37	23.64	13.55	6.75	4.30	2.69	1.60	
16	11.56	2.46	7.54	22.32	59.15	21.99	21.66	10.75	6.51	4.07	2.46	1.60	
17	7.54	2.46	6.26	17.32	61.05	27.06	21.00	9.94	6.51	4.07	2.46	1.60	
18	15.00	2.92	5.77	14.71	47.90	23.31	19.76	9.67	6.51	4.07	2.23	1.60	
19	8.34	2.46	5.28	27.41	53.92	25.68	18.83	9.14	6.26	4.07	1.80	1.40	
20	6.26	2.92	5.04	22.32	47.02	21.99	17.90	8.87	6.02	3.84	1.80	1.40	
21	5.77	2.69	5.04	25.68	63.42	20.69	17.61	8.61	6.02	4.30	1.80	1.20	
22	4.30	6.26	5.77	50.66	54.88	40.98	17.03	8.61	5.77	6.51	1.80	1.20	
23	3.38	4.07	5.28	52.04	41.82	33.00	16.74	8.34	5.77	7.28	1.80	1.20	
24	3.15	3.38	5.53	32.63	40.56	30.38	16.16	8.34	5.53	6.26	1.80	1.20	
25	2.69	2.92	5.28	23.31	43.08	54.88	16.74	8.34	5.53	5.77	1.80	1.20	
26	2.69	9.40	5.04	20.07	35.25	63.90	17.61	8.07	5.53	5.28	1.60	1.20	
27	2.46	8.87	4.79	17.03	30.75	56.30	15.87	8.07	5.28	4.55	1.60	1.00	
28	2.46	4.79	5.28	15.00	26.72	157.70	15.29	8.07	5.28	3.84	1.60	1.00	
29	2.23	9.94	5.28	13.26	24.99	123.47	14.71	8.07	5.04	3.84		1.00	
30	2.23	9.67	5.04	12.39	21.00	99.17	14.13	8.07	5.04	3.61		1.00	
31		7.28		15.58	19.45		13.84		5.04	3.61		1.00	
TOTAL	128.92	137.96	258.36	620.64	1041.57	1256.77	885.21	308.44	202.42	143.67	71.11	47.87	5102.94 CMSDAY
MEAN	4.30	4.45	8.61	20.02	33.60	41.89	28.56	10.28	6.53	4.63	2.54	1.54	13.98 CMS
MAX	15.00	10.48	38.09	52.04	63.42	157.70	75.54	13.55	8.07	7.28	3.61	3.15	157.70 CMS
MIN	1.80	2.00	4.55	5.04	10.75	20.69	13.84	8.07	5.04	3.61	1.60	1.00	1.00 CMS
RUNOFF	11.139	11.920	22.322	53.623	89.992	108.585	76.482	26.649	17.489	12.413	6.144	4.136	440.894 MCM

MOMENTARY PEAK 168.76 CMS, AT 234.38 M (MSL), AT 12.00 HOURS, ON SEP 28, 1982
RUNOFF YIELD 18.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 218.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

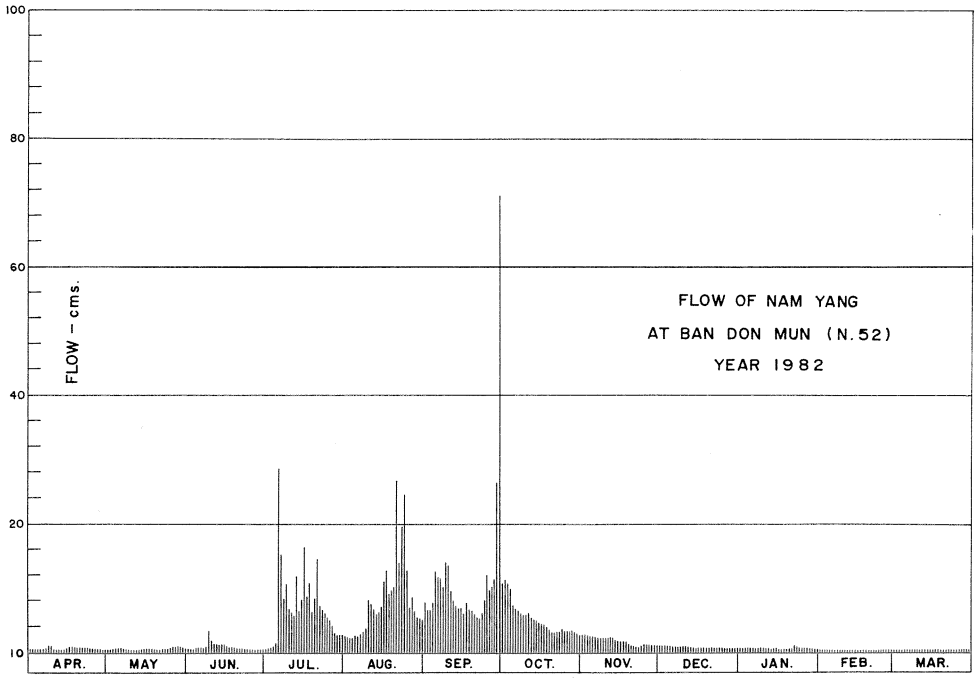
NAM YANG AT BAN DON MUN, NAN (N.52)

LOCATION	LAT. 19°-05'-08" N., LONG. 100°-55'-51" E., ON LEFT BANK AT THE BRIDGE OF PUA-BAN DU PHONG HIGHWAY, BAN DON MUN, TAMBON SILA PHET, AMPHOE PUA, NAN.
DRAINAGE AREA	49 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.063 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.15	0.19	0.18	0.67	0.86	0.93	0.69	0.58	0.53	0.52	0.49	
2	0.12	0.16	0.18	0.20	0.66	0.83	0.95	0.68	0.59	0.53	0.51	0.49	
3	0.11	0.16	0.19	0.23	0.65	0.83	0.93	0.68	0.58	0.54	0.50	0.49	
4	0.11	0.17	0.24	0.25	0.65	0.85	0.91	0.67	0.58	0.55	0.50	0.48	
5	0.11	0.23	0.24	0.28	0.68	0.97	0.84	0.67	0.59	0.54	0.50	0.48	
6	0.11	0.21	0.25	1.22	0.66	0.95	0.83	0.67	0.58	0.54	0.49	0.48	
7	0.11	0.21	0.24	1.02	0.69	0.95	0.82	0.66	0.57	0.53	0.49	0.47	
8	0.27	0.19	0.23	0.87	0.70	0.92	0.82	0.66	0.57	0.53	0.48	0.47	
9	0.25	0.18	0.48	0.93	0.73	1.00	0.80	0.65	0.56	0.54	0.48	0.48	
10	0.10	0.14	0.38	0.84	0.87	0.99	0.80	0.65	0.58	0.53	0.48	0.48	
11	0.11	0.13	0.31	0.82	0.85	0.90	0.81	0.65	0.58	0.53	0.48	0.48	
12	0.11	0.13	0.31	0.80	0.83	0.86	0.79	0.65	0.58	0.53	0.48	0.49	
13	0.15	0.13	0.31	0.95	0.80	0.84	0.78	0.66	0.57	0.53	0.48	0.48	
14	0.15	0.13	0.31	0.82	0.81	0.83	0.77	0.64	0.56	0.53	0.48	0.48	
15	0.20	0.17	0.30	0.87	0.84	0.84	0.76	0.63	0.56	0.53	0.49	0.48	
16	0.20	0.20	0.28	1.04	0.94	0.81	0.76	0.63	0.55	0.52	0.49	0.48	
17	0.25	0.19	0.24	0.89	0.97	0.86	0.74	0.63	0.55	0.52	0.49	0.49	
18	0.24	0.16	0.25	0.93	0.89	0.83	0.74	0.62	0.54	0.52	0.50	0.48	
19	0.24	0.13	0.24	0.82	0.90	0.83	0.73	0.61	0.54	0.52	0.50	0.48	
20	0.24	0.13	0.23	0.89	0.92	0.81	0.69	0.59	0.54	0.52	0.49	0.48	
21	0.23	0.13	0.21	1.01	1.20	0.79	0.70	0.58	0.54	0.53	0.49	0.48	
22	0.21	0.15	0.21	0.84	1.00	0.78	0.70	0.58	0.54	0.59	0.49	0.48	
23	0.21	0.19	0.20	0.83	1.10	0.81	0.70	0.57	0.54	0.54	0.50	0.48	
24	0.20	0.19	0.19	0.82	1.17	0.86	0.72	0.58	0.55	0.53	0.48	0.48	
25	0.19	0.18	0.18	0.80	0.98	0.96	0.71	0.60	0.54	0.53	0.48	0.49	
26	0.19	0.27	0.18	0.77	0.84	0.91	0.71	0.59	0.53	0.54	0.48	0.49	
27	0.19	0.25	0.17	0.74	0.88	0.92	0.70	0.59	0.53	0.54	0.48	0.49	
28	0.17	0.27	0.16	0.69	0.82	0.94	0.70	0.59	0.53	0.53	0.48	0.49	
29	0.17	0.26	0.16	0.68	0.79	1.20	0.70	0.58	0.54	0.53		0.49	
30	0.16	0.24	0.16	0.68	0.79	1.58	0.69	0.58	0.53	0.53		0.48	
31		0.22		0.68	0.78		0.68		0.53	0.52		0.48	
MEAN	0.17	0.18	0.24	0.75	0.84	0.91	0.77	0.63	0.56	0.53	0.49	0.48	
MAX	0.27	0.27	0.48	1.22	1.20	1.58	0.95	0.69	0.59	0.59	0.52	0.49	1.58
MIN	0.10	0.13	0.16	0.18	0.65	0.78	0.68	0.57	0.53	0.52	0.48	0.47	0.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.70 M (A.D), AT 6.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.01 M (A.D)
LEFT BANK ELEVATION 4.53 M (A.D)
RIGHT BANK ELEVATION 3.74 M (A.D), DRAINAGE AREA 49 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.33	0.47	0.43	2.56	7.89	10.75	2.92	1.09	0.56	0.46	0.23	
2	0.22	0.36	0.43	0.50	2.38	6.79	11.68	2.74	1.19	0.56	0.35	0.23	
3	0.19	0.36	0.47	0.70	2.20	6.79	10.75	2.74	1.09	0.67	0.25	0.23	
4	0.19	0.40	0.76	0.82	2.20	7.53	9.82	2.56	1.09	0.78	0.25	0.20	
5	0.19	0.70	0.76	1.02	2.74	12.61	7.16	2.56	1.19	0.67	0.25	0.20	
6	0.19	0.56	0.82	28.50	2.38	11.68	6.79	2.56	1.09	0.67	0.23	0.20	
7	0.19	0.56	0.76	15.16	2.92	11.68	6.43	2.38	0.98	0.56	0.23	0.18	
8	0.96	0.47	0.70	8.26	3.10	10.28	6.43	2.38	0.98	0.56	0.20	0.18	
9	0.82	0.43	3.30	10.75	3.88	14.00	5.70	2.20	0.88	0.67	0.20	0.20	
10	0.15	0.29	1.91	7.16	8.26	13.54	5.70	2.20	1.09	0.56	0.20	0.20	
11	0.19	0.26	1.24	6.43	7.53	9.35	6.06	2.20	1.09	0.56	0.20	0.20	
12	0.19	0.26	1.24	5.70	6.79	7.89	5.44	2.20	1.09	0.56	0.20	0.23	
13	0.33	0.26	1.24	11.68	5.70	7.16	5.18	2.38	0.98	0.56	0.20	0.20	
14	0.33	0.26	1.24	6.43	6.06	6.79	4.92	2.02	0.88	0.56	0.20	0.20	
15	0.50	0.40	1.15	8.26	7.16	7.16	4.66	1.84	0.88	0.56	0.23	0.20	
16	0.50	0.50	1.02	16.32	11.21	6.06	4.66	1.84	0.78	0.46	0.23	0.20	
17	0.82	0.47	0.76	8.99	12.61	7.89	4.14	1.84	0.78	0.46	0.23	0.23	
18	0.76	0.36	0.82	10.75	8.99	6.79	4.14	1.66	0.67	0.46	0.25	0.20	
19	0.76	0.26	0.76	6.43	9.35	6.79	3.88	1.48	0.67	0.46	0.25	0.20	
20	0.76	0.26	0.70	8.99	10.28	6.06	2.92	1.19	0.67	0.46	0.23	0.20	
21	0.70	0.26	0.56	14.58	26.80	5.44	3.10	1.09	0.67	0.56	0.23	0.20	
22	0.56	0.33	0.56	7.16	14.00	5.18	3.10	1.09	0.67	1.19	0.23	0.20	
23	0.56	0.47	0.50	6.79	19.80	6.06	3.10	0.98	0.67	0.67	0.25	0.20	
24	0.50	0.47	0.47	6.43	24.70	7.89	3.62	1.09	0.78	0.56	0.20	0.20	
25	0.47	0.43	0.43	5.70	13.07	12.14	3.36	1.30	0.67	0.56	0.20	0.23	
26	0.47	0.96	0.43	4.92	7.16	9.82	3.36	1.19	0.56	0.67	0.20	0.23	
27	0.47	0.82	0.40	4.14	8.62	10.28	3.10	1.19	0.56	0.67	0.20	0.23	
28	0.40	0.96	0.36	2.92	6.43	11.21	3.10	1.19	0.56	0.56	0.20	0.23	
29	0.40	0.89	0.36	2.74	5.44	26.80	3.10	1.09	0.67	0.56		0.23	
30	0.36	0.76	0.36	2.74	5.44	71.04	2.92	1.09	0.56	0.56		0.20	
31		0.63		2.74	5.18		2.74		0.56	0.46		0.20	
TOTAL	13.35	14.73	24.98	224.14	254.94	340.59	161.81	55.19	26.09	18.38	6.55	6.46	1147.21 CMSDAY
MEAN	0.45	0.48	0.83	7.23	8.22	11.35	5.22	1.84	0.84	0.59	0.23	0.21	3.14 CMS
MAX	0.96	0.96	3.30	28.50	26.80	71.04	11.68	2.92	1.19	1.19	0.46	0.23	71.04 CMS
MIN	0.15	0.26	0.36	0.43	2.20	5.18	2.74	0.98	0.56	0.46	0.20	0.18	0.15 CMS
RUNOFF	1.153	1.273	2.158	19.366	22.027	29.427	13.980	4.768	2.254	1.588	0.566	0.558	99.119 MCM

MOMENTARY PEAK 90.80 CMS, AT 1.70 M (A.D), AT 6.00 HOURS, ON SEP 30, 1982
RUNOFF YIELD 64.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1853.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAN RIVER BASIN

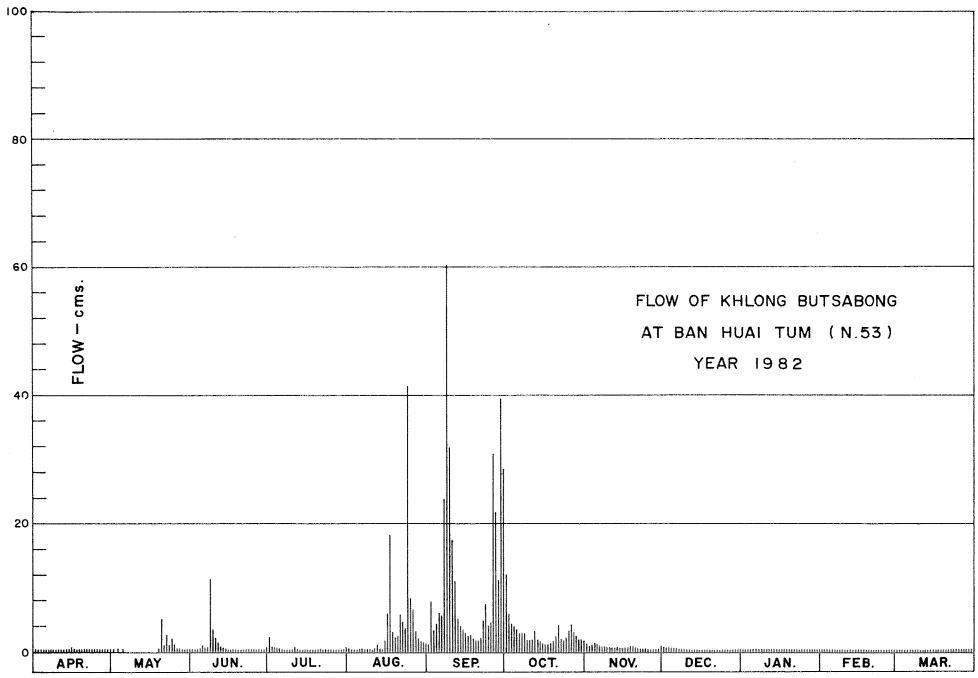
KHLONG BUTSABONG AT BAN HUAI TUM, PHETCHABUN (N.53)

LOCATION	LAT. 16°-11'-26" N., LONG. 100°-55'-40" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY AT BAN HUAI TUM, AMPHOE CHON DAN, PHETCHABUN.
DRAINAGE AREA	111 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.713 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 32 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.35	0.53	0.83	0.63	0.73	1.11	0.75	0.70	0.57	0.50	0.44	
2	0.40	0.31	0.53	0.70	0.60	1.10	1.00	0.72	0.69	0.57	0.50	0.44	
3	0.39	0.32	0.52	0.66	0.58	0.89	0.95	0.71	0.69	0.57	0.50	0.43	
4	0.38	0.30	0.52	0.67	0.58	0.95	0.94	0.76	0.68	0.57	0.50	0.43	
5	0.38	0.32	0.72	0.64	0.59	1.03	0.90	0.76	0.68	0.58	0.49	0.43	
6	0.36	0.29	0.69	0.60	0.63	1.01	0.86	0.72	0.67	0.65	0.49	0.42	
7	0.36	0.28	0.63	0.60	0.62	1.39	0.87	0.70	0.65	0.61	0.49	0.41	
8	0.36	0.27	1.22	0.59	0.60	2.08	0.86	0.70	0.64	0.60	0.48	0.40	
9	0.36	0.25	0.85	0.61	0.59	1.69	0.80	0.69	0.64	0.59	0.48	0.40	
10	0.36	0.20	0.82	0.60	0.58	1.35	0.80	0.69	0.63	0.58	0.48	0.40	
11	0.39	0.21	0.75	0.68	0.58	1.21	0.81	0.69	0.61	0.57	0.48	0.41	
12	0.39	0.20	0.69	0.62	0.72	1.01	0.88	0.68	0.60	0.57	0.47	0.40	
13	0.39	0.19	0.66	0.60	0.60	0.94	0.80	0.68	0.60	0.56	0.47	0.40	
14	0.43	0.19	0.63	0.59	0.61	0.91	0.79	0.68	0.59	0.56	0.47	0.40	
15	0.68	0.19	0.61	0.58	0.61	0.87	0.77	0.70	0.59	0.55	0.47	0.39	
16	0.59	0.28	0.60	0.57	1.03	0.84	0.75	0.69	0.59	0.54	0.47	0.39	
17	0.53	0.30	0.64	0.56	1.41	0.86	0.74	0.69	0.59	0.54	0.46	0.39	
18	0.48	0.29	0.60	0.56	0.87	0.83	0.75	0.72	0.59	0.54	0.46	0.38	
19	0.46	0.38	0.58	0.54	0.79	0.80	0.77	0.69	0.59	0.54	0.46	0.37	
20	0.44	0.99	0.57	0.57	0.84	0.79	0.83	0.68	0.58	0.53	0.45	0.36	
21	0.42	0.67	0.56	0.64	1.02	0.80	0.94	0.65	0.58	0.53	0.45	0.37	
22	0.40	0.85	0.56	0.60	0.97	0.97	0.83	0.65	0.58	0.52	0.45	0.37	
23	0.39	0.72	0.62	0.59	0.91	1.08	0.80	0.65	0.58	0.51	0.45	0.37	
24	0.39	0.82	0.59	0.57	1.83	0.93	0.80	0.65	0.59	0.50	0.45	0.39	
25	0.39	0.68	0.58	0.58	1.11	0.96	0.87	0.64	0.59	0.50	0.45	0.37	
26	0.38	0.62	0.57	0.57	1.05	1.66	0.95	0.64	0.59	0.50	0.44	0.36	
27	0.37	0.60	0.64	0.53	0.85	1.42	0.89	0.64	0.58	0.50	0.44	0.35	
28	0.36	0.57	0.60	0.55	0.81	1.21	0.84	0.63	0.58	0.50	0.44	0.35	
29	0.36	0.57	0.58	0.54	0.79	1.80	0.81	0.63	0.58	0.50		0.34	
30	0.36	0.58	0.60	0.54	0.78	1.70	0.81	0.73	0.57	0.50		0.34	
31		0.57		0.70	0.75		0.78		0.57	0.50		0.33	
MEAN	0.41	0.43	0.64	0.61	0.80	1.13	0.85	0.69	0.61	0.55	0.47	0.39	
MAX	0.68	0.99	1.22	0.83	1.83	2.08	1.11	0.76	0.70	0.65	0.50	0.44	2.08
MIN	0.36	0.19	0.52	0.53	0.58	0.73	0.74	0.63	0.57	0.50	0.44	0.33	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.90 M (A.D), AT 4.00 HOURS, ON AUG 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.23 M (A.D)
LEFT BANK ELEVATION 4.92 M (A.D)
RIGHT BANK ELEVATION 9.18 M (A.D), DRAINAGE AREA 111 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.02	0.14	2.38	0.43	1.17	8.18	1.38	0.85	0.20	0.10	0.07	
2	0.05	0.00	0.14	0.85	0.25	7.90	5.45	1.06	0.79	0.20	0.10	0.07	
3	0.04	0.01	0.13	0.61	0.22	3.34	4.48	0.95	0.79	0.20	0.10	0.07	
4	0.04	0.00	0.13	0.67	0.22	4.48	4.28	1.48	0.73	0.20	0.10	0.07	
5	0.04	0.01	1.06	0.49	0.23	6.18	3.50	1.48	0.73	0.22	0.10	0.07	
6	0.03	0.00	0.79	0.25	0.43	5.69	2.86	1.06	0.67	0.55	0.10	0.06	
7	0.03	0.00	0.43	0.25	0.37	17.38	3.02	0.85	0.55	0.31	0.10	0.05	
8	0.03	0.00	11.38	0.23	0.25	60.22	2.86	0.85	0.49	0.25	0.09	0.05	
9	0.03	0.00	2.70	0.31	0.23	32.72	1.90	0.79	0.49	0.23	0.09	0.05	
10	0.03	0.00	2.22	0.25	0.22	15.93	1.90	0.79	0.43	0.22	0.09	0.05	
11	0.04	0.00	1.38	0.73	0.22	11.04	2.06	0.79	0.31	0.20	0.09	0.05	
12	0.04	0.00	0.79	0.37	1.06	5.69	3.18	0.73	0.25	0.20	0.09	0.05	
13	0.04	0.00	0.61	0.25	0.25	4.28	1.90	0.73	0.25	0.19	0.09	0.05	
14	0.07	0.00	0.43	0.23	0.31	3.70	1.80	0.73	0.23	0.19	0.09	0.05	
15	0.73	0.00	0.31	0.22	0.31	3.02	1.58	0.85	0.23	0.18	0.09	0.04	
16	0.23	0.00	0.25	0.20	6.18	2.54	1.38	0.79	0.23	0.16	0.09	0.04	
17	0.14	0.00	0.49	0.19	18.20	2.86	1.27	0.79	0.23	0.16	0.08	0.04	
18	0.09	0.00	0.25	0.19	3.02	2.38	1.38	1.06	0.23	0.16	0.08	0.04	
19	0.08	0.04	0.22	0.16	1.80	1.90	1.58	0.79	0.23	0.16	0.08	0.04	
20	0.07	5.26	0.20	0.20	2.54	1.80	2.38	0.73	0.22	0.14	0.08	0.03	
21	0.06	0.67	0.19	0.49	5.94	1.90	4.28	0.55	0.22	0.14	0.08	0.04	
22	0.05	2.70	0.19	0.25	4.87	4.87	2.38	0.55	0.22	0.13	0.08	0.04	
23	0.04	1.06	0.37	0.23	3.70	7.41	1.90	0.55	0.22	0.11	0.08	0.04	
24	0.04	2.22	0.23	0.20	41.57	4.09	1.90	0.55	0.23	0.10	0.08	0.04	
25	0.04	0.73	0.22	0.22	8.18	4.67	3.02	0.49	0.23	0.10	0.08	0.04	
26	0.04	0.37	0.20	0.20	6.67	30.98	4.48	0.49	0.23	0.10	0.07	0.03	
27	0.04	0.25	0.49	0.14	2.70	18.66	3.34	0.49	0.22	0.10	0.07	0.02	
28	0.03	0.20	0.25	0.18	2.06	11.04	2.54	0.43	0.22	0.10	0.07	0.02	
29	0.03	0.20	0.22	0.16	1.80	39.50	2.06	0.43	0.22	0.10		0.02	
30	0.03	0.22	0.25	0.16	1.69	33.30	2.06	1.17	0.20	0.10		0.02	
31		0.20		0.85	1.38		1.69		0.20	0.10		0.02	
TOTAL	2.31	14.16	26.66	12.11	117.30	350.64	86.59	24.38	11.34	5.50	2.44	1.37	654.80 CMSDAY
MEAN	0.08	0.46	0.89	0.39	3.78	11.69	2.79	0.81	0.37	0.18	0.09	0.04	1.79 CMS
MAX	0.73	5.26	11.38	2.38	41.57	60.22	8.18	1.48	0.85	0.55	0.10	0.07	60.22 CMS
MIN	0.03	0.00	0.13	0.14	0.22	1.17	1.27	0.43	0.20	0.10	0.07	0.02	0.00 CMS
RUNOFF	0.200	1.223	2.303	1.046	10.135	30.295	7.481	2.106	0.980	0.475	0.211	0.118	56.575 MCM

MOMENTARY PEAK 144.00 CMS, AT 2.90 M (A.D), AT 4.00 HOURS, ON AUG 24, 1982
RUNOFF YIELD 16.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1297.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHAO PHRAYA RIVER BASIN

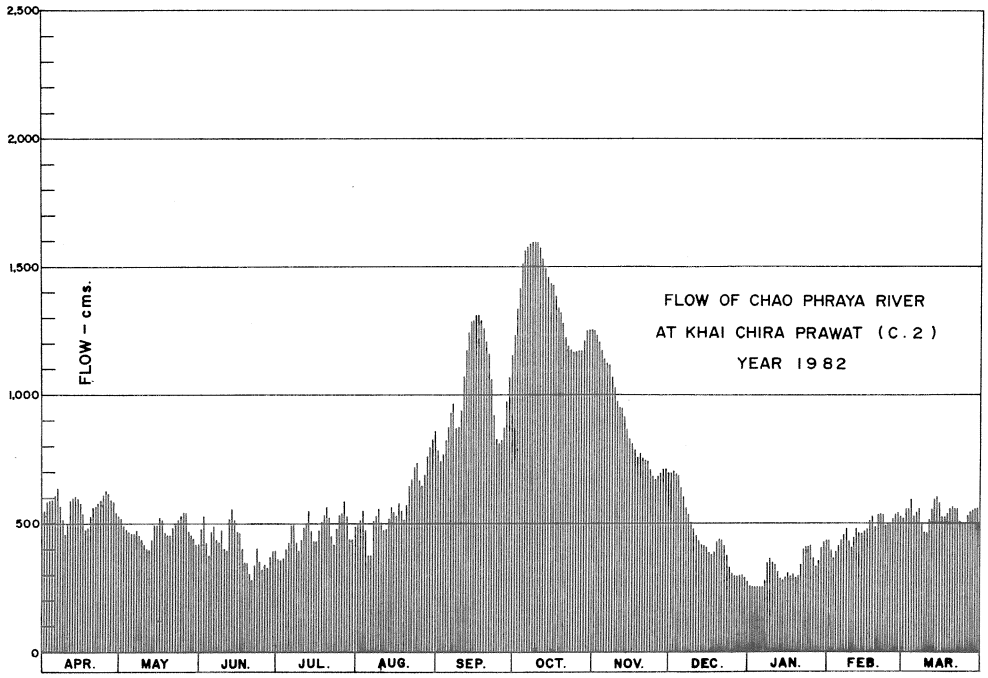
CHAO PHRAYA RIVER AT NAKHON SAWAN, NAKHON SAWAN (C.2)

LOCATION	LAT. 15°-40'-15" N., LONG. 100°-06'-45" E., ON LEFT BANK AT KHAI CHIRA PRAWAT ABOUT 3 KILOMETERS DOWNSTREAM FROM DECHATIWONG BRIDGE, AMPHOE MUANG, NAKHON SAWAN.
DRAINAGE AREA	110,569 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (M.S.L.)
BENCH MARK	B.M.-H.S.
LOCATION	ABOUT 20 METERS WEST OF THE GAGE SITE.
ELEVATION	+25.628 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1914 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1956 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1956 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 159 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	19.64	19.53	19.30	18.92	19.47	20.49	21.81	21.89	20.21	18.39	19.20	19.56	
2	19.79	19.42	19.56	18.85	19.55	20.33	22.08	21.83	20.23	18.35	19.09	19.30	
3	19.79	19.36	19.19	18.85	19.66	20.42	22.29	21.73	20.21	18.37	18.89	19.31	
4	19.81	19.33	18.97	19.04	19.30	20.59	22.52	21.62	20.18	18.38	19.04	19.47	
5	19.88	19.30	19.31	19.12	18.96	20.78	22.70	21.55	20.02	18.35	19.11	19.58	
6	19.98	19.31	19.41	19.41	18.96	20.97	22.73	21.50	19.85	18.36	19.22	19.64	
7	19.76	19.36	19.20	19.46	19.48	21.05	22.77	21.48	19.74	18.48	19.31	19.69	
8	19.52	19.30	19.15	19.16	19.58	20.85	22.78	21.36	19.60	18.82	19.38	19.59	
9	19.29	19.22	19.34	19.01	19.68	20.73	22.79	21.28	19.48	18.91	19.20	19.34	
10	19.43	19.12	19.07	19.17	19.60	20.87	22.78	21.17	19.38	18.81	19.08	19.34	
11	19.80	19.05	19.03	19.40	19.40	21.38	22.74	21.04	19.29	18.82	19.27	19.48	
12	19.82	19.04	19.42	19.46	19.33	21.65	22.62	21.02	19.19	18.69	19.42	19.68	
13	19.86	19.23	19.68	19.69	19.54	21.84	22.52	20.98	19.11	18.52	19.33	19.82	
14	19.85	19.42	19.56	19.50	19.72	21.95	22.43	20.82	19.11	18.48	19.32	19.86	
15	19.77	19.43	19.36	19.19	19.65	21.97	22.37	20.65	19.08	18.59	19.35	19.80	
16	19.64	19.56	19.33	19.17	19.58	22.01	22.35	20.59	19.00	18.63	19.37	19.60	
17	19.37	19.52	19.13	19.34	19.77	22.01	22.27	20.53	18.95	18.58	19.51	19.53	
18	19.39	19.32	18.84	19.50	19.66	21.95	22.16	20.41	18.99	18.61	19.57	19.62	
19	19.53	19.28	18.81	19.53	19.52	21.85	22.07	20.41	19.18	18.57	19.41	19.69	
20	19.71	19.24	18.65	19.73	19.76	21.73	21.95	20.45	19.21	18.54	19.57	19.73	
21	19.72	19.37	18.49	19.54	20.01	21.56	21.81	20.38	19.19	18.79	19.65	19.70	
22	19.77	19.44	18.76	19.24	20.12	21.23	21.71	20.37	19.11	19.05	19.62	19.68	
23	19.84	19.51	19.05	19.12	20.23	20.89	21.66	20.27	18.95	19.08	19.45	19.48	
24	19.87	19.56	18.82	19.38	20.33	20.65	21.62	20.16	18.71	19.10	19.48	19.51	
25	19.93	19.61	18.68	19.59	20.12	20.57	21.62	20.13	18.63	19.13	19.47	19.41	
26	19.91	19.64	18.80	19.62	20.03	20.62	21.67	20.15	18.58	18.98	19.57	19.57	
27	19.81	19.38	18.72	19.78	20.15	20.86	21.65	20.19	18.56	18.76	19.64	19.67	
28	19.78	19.28	18.92	19.57	20.41	21.10	21.72	20.23	18.56	18.88	19.65	19.68	
29	19.63	19.26	19.02	19.20	20.52	21.32	21.85	20.27	18.57	19.09		19.71	
30	19.58	19.18	19.02	19.20	20.63	21.54	21.88	20.23	18.55	19.19		19.72	
31		19.10		19.42	20.74		21.88		18.47	19.21		19.58	
MEAN	19.72	19.34	19.09	19.33	19.79	21.19	22.19	20.82	19.22	18.73	19.36	19.59	
MAX	19.98	19.64	19.68	19.78	20.74	22.01	22.79	21.89	20.23	19.21	19.65	19.86	22.79
MIN	19.29	19.04	18.49	18.85	18.96	20.33	21.62	20.13	18.47	18.35	18.89	19.30	18.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 22.80 M (MSL), AT 18.00 HOURS, ON OCT 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 14.73 M (MSL)
LEFT BANK ELEVATION 25.83 M (MSL)
RIGHT BANK ELEVATION 26.19 M (MSL), DRAINAGE AREA 110569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	541.	513.	456.	367.	497.	782.	1229.	1259.	698.	258.	432.	520.	
2	582.	485.	520.	351.	517.	734.	1330.	1236.	704.	250.	406.	456.	
3	582.	470.	430.	351.	546.	761.	1409.	1201.	698.	254.	360.	458.	
4	588.	463.	378.	394.	456.	812.	1495.	1162.	689.	256.	394.	497.	
5	607.	456.	458.	413.	376.	874.	1563.	1137.	645.	250.	411.	525.	
6	634.	458.	483.	483.	376.	935.	1574.	1120.	599.	252.	437.	541.	
7	574.	470.	432.	495.	500.	962.	1589.	1113.	568.	276.	458.	555.	
8	510.	456.	420.	423.	525.	896.	1593.	1071.	530.	345.	475.	527.	
9	454.	437.	466.	387.	552.	857.	1596.	1043.	500.	365.	432.	466.	
10	488.	413.	401.	425.	530.	903.	1593.	1005.	475.	342.	404.	466.	
11	585.	397.	392.	480.	480.	1078.	1578.	959.	454.	345.	449.	500.	
12	590.	394.	485.	495.	463.	1173.	1533.	952.	430.	318.	485.	552.	
13	602.	439.	552.	555.	515.	1240.	1495.	938.	411.	284.	463.	590.	
14	599.	485.	520.	505.	563.	1281.	1461.	886.	411.	276.	461.	602.	
15	577.	488.	470.	430.	544.	1289.	1439.	831.	404.	298.	468.	585.	
16	541.	520.	463.	425.	525.	1304.	1431.	812.	385.	306.	473.	530.	
17	473.	510.	416.	466.	577.	1304.	1401.	794.	374.	296.	508.	513.	
18	478.	461.	349.	505.	546.	1281.	1360.	758.	383.	302.	522.	536.	
19	513.	451.	342.	513.	510.	1244.	1326.	758.	427.	294.	483.	555.	
20	560.	442.	310.	566.	574.	1201.	1281.	770.	434.	288.	522.	566.	
21	563.	473.	278.	515.	643.	1141.	1229.	749.	430.	338.	544.	558.	
22	577.	490.	332.	442.	673.	1025.	1193.	746.	411.	397.	536.	552.	
23	596.	508.	397.	413.	704.	909.	1176.	716.	374.	404.	493.	500.	
24	604.	520.	345.	475.	734.	831.	1162.	684.	322.	409.	500.	508.	
25	621.	533.	316.	527.	673.	806.	1162.	676.	306.	416.	497.	483.	
26	615.	541.	340.	536.	648.	822.	1180.	681.	296.	380.	522.	522.	
27	588.	475.	324.	580.	681.	900.	1173.	692.	292.	332.	541.	549.	
28	580.	451.	367.	522.	758.	980.	1197.	704.	292.	358.	544.	552.	
29	538.	446.	390.	432.	791.	1057.	1244.	716.	294.	406.		560.	
30	525.	427.	390.	432.	825.	1134.	1255.	704.	290.	430.		563.	
31		409.		485.	860.		1255.		274.	434.		525.	
TOTAL	16885.	14481.	12222.	14388.	18162.	30516.	42502.	26873.	13800.	10159.	13220.	16412.	229620. CMSDAY
MEAN	563.	467.	407.	464.	586.	1017.	1371.	896.	445.	328.	472.	529.	629. CMS
MAX	634.	541.	552.	580.	860.	1304.	1596.	1259.	704.	434.	544.	602.	1596. CMS
MIN	454.	394.	278.	351.	376.	734.	1162.	676.	274.	250.	360.	456.	250. CMS
RUNOFF	1458.9	1251.2	1056.0	1243.1	1569.2	2636.6	3672.2	2321.8	1192.3	877.7	1142.2	1418.0	19839.2 MCM

MOMENTARY PEAK 1600.00 CMS, AT 22.80 M (MSL), AT 18.00 HOURS, ON OCT 10, 1982
RUNOFF YIELD 5.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHAO PHRAYA RIVER BASIN

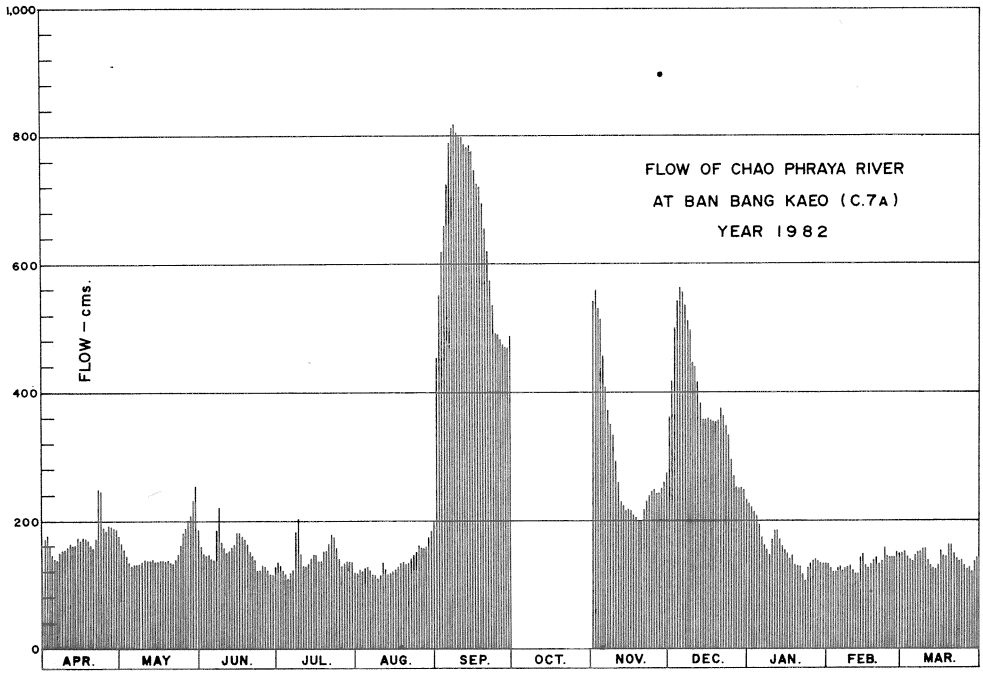
CHAO PHRAYA RIVER AT BAN BANG KAEO, ANG THONG (C.7A)

LOCATION	LAT. 14°-35'-05" N., LONG. 100°-27'-12" E., ON LEFT BANK ABOUT 40 METERS DOWNSTREAM ANG THONG BRIDGE, BAN BANG KAEO, AMPHOE MUANG, ANG THONG.
DRAINAGE AREA	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 3 METERS NORTH OF THE GAGE SITE.
ELEVATION	+7.085 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976-1979
RATED BY FLOAT	-
RATED BY CURRENT METER	1976-1979
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD . NO RECORDS ON OCT. 1-31, 1982. STAGE-DISCHARGE RELATION DEFINED BY 289 DISCHARGE MEASUREMENTS MADE DURING 1976 AND 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.78	0.81	0.56	0.41	2.74	*******	3.06	2.20	1.25	0.56	0.69	
2	0.88	0.70	0.70	0.53	0.48	3.13	*******	3.10	2.49	1.20	0.52	0.70	
3	0.77	0.65	0.65	0.47	0.45	3.47	*******	3.02	2.82	1.14	0.44	0.65	
4	0.67	0.58	0.68	0.44	0.48	3.66	*******	2.87	3.08	1.11	0.45	0.61	
5	0.61	0.50	0.61	0.36	0.52	3.97	*******	2.57	3.18	1.03	0.49	0.58	
6	0.59	0.54	0.62	0.45	0.46	4.25	*******	2.28	3.15	0.87	0.53	0.67	
7	0.72	0.54	0.97	0.47	0.38	4.38	*******	2.13	3.03	0.78	0.47	0.71	
8	0.73	0.54	1.20	0.94	0.42	4.40	*******	2.00	2.89	0.74	0.49	0.72	
9	0.73	0.56	0.80	1.06	0.36	4.35	*******	1.89	2.81	0.66	0.51	0.74	
10	0.76	0.59	0.74	0.67	0.44	4.32	*******	1.60	2.55	0.85	0.53	0.75	
11	0.81	0.60	0.67	0.52	0.56	4.33	*******	1.40	2.50	0.95	0.49	0.61	
12	0.79	0.59	0.71	0.51	0.46	4.29	*******	1.27	2.33	0.95	0.43	0.54	
13	0.77	0.60	0.75	0.58	0.41	4.24	*******	1.21	2.12	0.86	0.44	0.50	
14	0.87	0.59	0.80	0.64	0.44	4.26	*******	1.15	2.03	0.76	0.61	0.49	
15	0.83	0.58	0.93	0.69	0.46	4.13	*******	1.18	2.03	0.72	0.67	0.65	
16	0.88	0.61	0.94	0.66	0.48	4.06	*******	1.15	2.04	0.69	0.56	0.71	
17	0.88	0.61	0.89	0.59	0.50	3.98	*******	1.10	2.02	0.61	0.51	0.64	
18	0.82	0.59	0.86	0.58	0.50	3.96	*******	1.08	2.01	0.64	0.52	0.66	
19	0.77	0.61	0.82	0.71	0.60	3.83	*******	1.05	2.01	0.54	0.60	0.78	
20	0.75	0.59	0.70	0.73	0.56	3.69	*******	1.03	2.01	0.54	0.65	0.78	
21	0.86	0.52	0.63	0.83	0.54	3.47	*******	1.18	2.13	0.53	0.54	0.67	
22	1.38	0.60	0.60	0.90	0.61	3.24	*******	1.29	2.08	0.39	0.59	0.62	
23	1.37	0.64	0.47	0.88	0.66	2.98	*******	1.33	2.00	0.31	0.75	0.60	
24	0.98	0.76	0.48	0.72	0.67	2.79	*******	1.37	1.92	0.54	0.66	0.61	
25	0.95	0.91	0.53	0.56	0.70	2.78	*******	1.37	1.68	0.58	0.60	0.53	
26	1.00	0.99	0.51	0.52	0.78	2.73	*******	1.33	1.51	0.62	0.64	0.49	
27	0.99	1.07	0.48	0.58	0.74	2.69	*******	1.35	1.40	0.61	0.64	0.51	
28	0.99	1.13	0.42	0.59	0.74	2.67	*******	1.40	1.41	0.57	0.70	0.45	
29	0.97	1.26	0.43	0.56	0.81	2.66	*******	1.47	1.41	0.55		0.49	
30	0.92	1.41	0.51	0.58	0.91	2.77	*******	1.69	1.39	0.55		0.61	
31		0.98		0.43	1.04		*******		1.30	0.55		0.68	
MEAN	0.86	0.72	0.70	0.62	0.57	3.61	*******	1.66	2.18	0.73	0.56	0.63	
MAX	1.38	1.41	1.20	1.06	1.04	4.40	*******	3.10	3.18	1.25	0.75	0.78	4.40
MIN	0.59	0.50	0.42	0.36	0.36	2.66	*******	1.03	1.30	0.31	0.43	0.45	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.40 M (MSL), AT 6.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED -7.60 M (MSL)
LEFT BANK ELEVATION 7.20 M (MSL)
RIGHT BANK ELEVATION 6.80 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	168.2	160.4	164.3	132.2	114.2	480.2	*******	539.4	385.0	227.5	132.2	148.7	
2	173.4	150.0	150.0	128.6	122.6	552.7	*******	547.0	435.2	220.0	127.4	150.0	
3	159.1	143.5	143.5	121.4	119.0	617.3	*******	531.8	494.6	211.0	117.8	143.5	
4	146.1	134.6	147.4	117.8	122.6	654.0	*******	503.6	543.2	206.5	119.0	138.3	
5	138.3	125.0	138.3	108.6	127.4	719.4	*******	449.6	562.2	194.5	123.8	134.6	
6	135.8	129.8	139.6	119.0	120.2	781.0	*******	398.6	556.5	172.1	128.6	146.1	
7	152.6	129.8	185.8	121.4	110.8	809.6	*******	373.1	533.7	160.4	121.4	151.3	
8	153.9	129.8	220.0	181.6	115.4	814.0	*******	351.0	507.2	155.2	123.8	152.6	
9	153.9	132.2	163.0	199.0	108.6	803.0	*******	332.3	492.8	144.8	126.2	155.2	
10	157.8	135.8	155.2	146.1	117.8	796.4	*******	283.0	446.0	169.5	128.6	156.5	
11	164.3	137.0	146.1	127.4	132.2	798.6	*******	250.0	437.0	183.0	123.8	138.3	
12	161.7	135.8	151.3	126.2	120.2	789.8	*******	230.5	407.1	183.0	116.6	129.8	
13	159.1	137.0	156.5	134.6	114.2	778.8	*******	221.5	371.4	170.8	117.8	125.0	
14	172.1	135.8	163.0	142.2	117.8	783.2	*******	212.5	356.1	157.8	138.3	123.8	
15	166.9	134.6	180.2	148.7	120.2	754.6	*******	217.0	356.1	152.6	146.1	143.5	
16	173.4	138.3	181.6	144.8	122.6	739.2	*******	212.5	357.8	148.7	132.2	151.3	
17	173.4	138.3	174.7	135.8	125.0	721.6	*******	205.0	354.4	138.3	126.2	142.2	
18	165.6	135.8	170.8	134.6	125.0	717.2	*******	202.0	352.7	142.2	127.4	144.8	
19	159.1	138.3	165.6	151.3	137.0	689.3	*******	197.5	352.7	129.8	137.0	160.4	
20	156.5	135.8	150.0	153.9	132.2	660.0	*******	194.5	352.7	129.8	143.5	160.4	
21	170.8	127.4	140.9	166.9	129.8	617.3	*******	217.0	373.1	128.6	129.8	146.1	
22	247.0	137.0	137.0	176.0	138.3	573.6	*******	233.5	364.6	111.9	135.8	139.6	
23	245.5	142.2	121.4	173.4	144.8	524.2	*******	239.5	351.0	103.1	156.5	137.0	
24	187.2	157.8	122.6	152.6	146.1	489.2	*******	245.5	337.4	129.8	144.8	138.3	
25	183.0	177.4	128.6	132.2	150.0	487.4	*******	245.5	296.6	134.6	137.0	128.6	
26	190.0	188.6	126.2	127.4	160.4	478.4	*******	239.5	267.7	139.6	142.2	123.8	
27	188.6	200.5	122.6	134.6	155.2	471.2	*******	242.5	250.0	138.3	142.2	126.2	
28	188.6	209.5	115.4	135.8	155.2	467.6	*******	250.0	251.6	133.4	150.0	119.0	
29	185.8	229.0	116.6	132.2	164.3	465.8	*******	261.2	251.6	131.0		123.8	
30	178.8	251.6	126.2	134.6	177.4	485.6	*******	298.3	248.5	131.0		138.3	
31		187.2		116.6	196.0		*******		235.0	131.0		147.4	
TOTAL	5156.5	4745.8	4504.4	4357.5	4142.5	19520.2	*******	8924.9	11881.5	4809.8	3696.0	4364.4	******** CMSDAY
MEAN	171.9	153.1	150.1	140.6	133.6	650.7	*******	297.5	383.3	155.2	132.0	140.8	******** CMS
MAX	247.0	251.6	220.0	199.0	196.0	814.0	*******	547.0	562.2	227.5	156.5	160.4	814.0 CMS
MIN	135.8	125.0	115.4	108.6	108.6	465.8	*******	194.5	235.0	103.1	116.6	119.0	******** CMS
RUNOFF	445.52	410.04	389.18	376.49	357.91	1686.55	*******	771.11	1026.56	415.57	319.33	377.08	******** MCM

MOMENTARY PEAK 814.00 CMS, AT 4.40 M (MSL), AT 6.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 0.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHAO PHRAYA RIVER BASIN

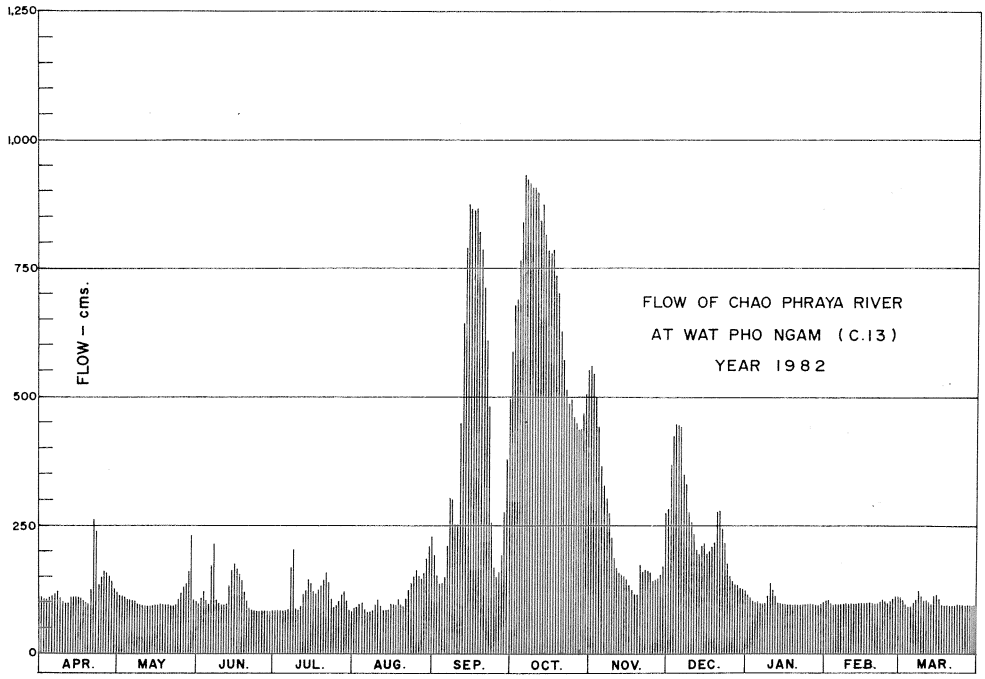
CHAO PHRAYA RIVER AT BAN RE RAI, CHAI NAT (C.13)

LOCATION	LAT. 15°-09'-57" N., LONG. 100°-11'-32" E., ON LEFT BANK AT WAT PHO NGAM ABOUT 1.5 KILOMETERS DOWNSTREAM FROM CHAO PHRAYA DIVERSION DAM, AMPHOE SANPHAYA, CHAINAT
DRAINAGE AREA	120,693 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE GAGE LINE.
ELEVATION	+15.634 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1947 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1953-1962, 1965-1968, 1972, 1975-1976, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD.. FLOW REGULATED BY CHAO PHRAYA DIVERSION DAM ABOVE GAGE SITE WHICH DIVERTED FOR IRRIGATION ABOUT 979,000 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.05	7.10	6.91	6.80	6.82	7.76	9.69	9.62	8.31	7.12	7.00	7.06	
2	7.01	7.06	7.02	6.80	6.86	7.41	10.04	9.55	8.73	7.03	7.00	7.00	
3	7.01	7.05	7.15	6.79	6.90	7.29	10.11	9.43	9.02	6.96	6.90	6.90	
4	7.03	6.99	6.96	6.79	6.95	7.30	10.45	9.12	9.17	6.95	6.90	6.89	
5	7.08	6.97	6.91	6.79	6.81	7.40	10.70	8.81	9.16	6.96	6.90	6.90	
6	7.12	6.97	7.48	6.80	6.79	7.82	10.94	8.60	8.94	6.94	6.90	6.96	
7	7.15	6.97	7.83	7.55	6.79	8.42	10.93	8.45	8.70	6.93	6.91	7.04	
8	7.02	6.92	6.98	7.77	6.80	8.38	10.89	8.38	8.62	6.93	6.91	7.18	
9	6.96	6.90	6.92	6.87	6.91	8.07	10.85	7.98	8.26	7.14	6.92	7.10	
10	6.94	6.89	6.90	6.80	7.01	8.10	10.86	7.72	8.23	7.29	6.92	6.95	
11	6.95	6.89	6.89	6.86	6.91	9.05	10.82	7.54	8.04	7.20	6.92	7.01	
12	7.07	6.88	6.92	7.06	6.80	9.95	10.64	7.44	7.79	7.08	6.91	6.95	
13	7.05	6.88	7.24	7.16	6.80	10.39	10.74	7.41	7.72	6.93	6.91	6.94	
14	7.05	6.88	7.49	7.34	6.81	10.74	10.56	7.41	7.81	6.91	6.92	7.09	
15	7.04	6.89	7.58	7.28	6.92	10.73	10.46	7.32	7.86	6.91	6.92	7.10	
16	7.03	6.89	7.55	7.15	6.91	10.69	10.41	7.27	7.71	6.90	6.92	7.05	
17	6.98	6.90	7.48	7.09	6.90	10.73	10.45	7.19	7.77	6.90	6.92	6.94	
18	6.94	6.90	7.36	7.15	7.00	10.67	10.33	7.09	7.83	6.90	6.92	6.90	
19	6.93	6.89	7.18	7.27	6.95	10.49	10.17	7.10	7.88	6.90	6.93	6.90	
20	7.12	6.89	7.00	7.36	6.88	10.41	9.98	7.57	8.24	6.89	6.91	6.89	
21	8.16	6.88	6.85	7.45	7.03	10.08	9.73	7.46	8.27	6.89	6.94	6.89	
22	8.03	6.88	6.80	7.32	7.21	9.33	9.46	7.50	8.11	6.89	7.00	6.91	
23	7.25	6.89	6.79	7.03	7.30	8.26	9.30	7.50	7.94	6.90	7.02	6.93	
24	7.37	7.00	6.80	6.85	7.42	7.53	9.37	7.48	7.63	6.91	6.97	6.92	
25	7.50	7.10	6.80	6.90	7.48	7.37	9.29	7.34	7.43	6.93	6.94	6.91	
26	7.45	7.21	6.80	7.00	7.43	7.48	9.18	7.33	7.32	6.91	6.96	6.90	
27	7.43	7.29	6.80	7.07	7.36	7.71	9.16	7.36	7.27	6.90	6.99	6.90	
28	7.34	7.48	6.80	7.16	7.47	8.28	9.10	7.41	7.27	6.89	7.07	6.90	
29	7.23	7.96	6.80	7.05	7.66	8.81	9.19	7.53	7.22	6.89		6.90	
30	7.13	7.00	6.80	6.84	7.82	9.29	9.41	8.21	7.21	6.90		6.90	
31		6.96		6.79	7.96		9.57		7.20	6.91		6.90	
MEAN	7.18	7.01	7.06	7.06	7.09	8.86	10.09	7.87	8.02	6.96	6.94	6.96	
MAX	8.16	7.96	7.83	7.77	7.96	10.74	10.94	9.62	9.17	7.29	7.07	7.18	10.94
MIN	6.93	6.88	6.79	6.79	6.79	7.29	9.10	7.09	7.20	6.89	6.90	6.89	6.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.97 M (MSL), AT 7.00 HOURS, ON OCT 6, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 1.73 M (MSL)
LEFT BANK ELEVATION 15.88 M (MSL)
RIGHT BANK ELEVATION 16.32 M (MSL), DRAINAGE AREA 120693 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.	115.	96.	85.	87.	199.	577.	560.	284.	117.	105.	111.	
2	106.	111.	107.	85.	91.	151.	671.	543.	361.	108.	105.	105.	
3	106.	110.	120.	84.	95.	136.	690.	513.	419.	101.	95.	95.	
4	108.	104.	101.	84.	100.	138.	785.	439.	449.	100.	95.	94.	
5	113.	102.	96.	84.	86.	150.	860.	377.	447.	101.	95.	95.	
6	117.	102.	160.	85.	84.	208.	932.	335.	403.	99.	95.	101.	
7	120.	102.	210.	169.	84.	304.	929.	309.	355.	98.	96.	109.	
8	107.	97.	103.	201.	85.	297.	917.	297.	339.	98.	96.	123.	
9	101.	95.	97.	92.	96.	245.	905.	232.	276.	119.	97.	115.	
10	99.	94.	95.	85.	106.	250.	908.	193.	270.	136.	97.	100.	
11	100.	94.	94.	91.	96.	425.	896.	168.	241.	125.	97.	106.	
12	112.	93.	97.	111.	85.	646.	842.	155.	204.	113.	96.	100.	
13	110.	93.	130.	121.	85.	767.	872.	151.	193.	98.	96.	99.	
14	110.	93.	161.	143.	86.	872.	818.	151.	207.	96.	97.	114.	
15	109.	94.	173.	135.	97.	869.	788.	140.	214.	96.	97.	115.	
16	108.	94.	169.	120.	96.	857.	773.	134.	192.	95.	97.	110.	
17	103.	95.	160.	114.	95.	869.	785.	124.	201.	95.	97.	99.	
18	99.	95.	145.	120.	105.	851.	751.	114.	210.	95.	97.	95.	
19	98.	94.	123.	134.	100.	797.	707.	115.	217.	95.	98.	95.	
20	117.	94.	105.	145.	93.	773.	654.	171.	272.	94.	96.	94.	
21	259.	93.	90.	156.	108.	682.	587.	158.	277.	94.	99.	94.	
22	239.	93.	85.	140.	126.	488.	520.	163.	251.	94.	105.	96.	
23	131.	94.	84.	108.	138.	276.	480.	163.	226.	95.	107.	98.	
24	146.	105.	85.	90.	153.	166.	498.	160.	180.	96.	102.	97.	
25	163.	115.	85.	95.	160.	146.	478.	143.	154.	98.	99.	96.	
26	156.	126.	85.	105.	154.	160.	451.	141.	140.	96.	101.	95.	
27	154.	136.	85.	112.	145.	192.	447.	145.	134.	95.	104.	95.	
28	143.	160.	85.	121.	159.	279.	435.	151.	134.	94.	112.	95.	
29	129.	229.	85.	110.	184.	377.	453.	166.	128.	94.		95.	
30	118.	105.	85.	89.	208.	478.	507.	267.	126.	95.		95.	
31		101.		84.	229.		547.		125.	96.		95.	
TOTAL	3791.	3328.	3396.	3498.	3616.	13048.	21463.	6878.	7629.	3126.	2773.	3126.	75672. CMSDAY
MEAN	126.	107.	113.	113.	117.	435.	692.	229.	246.	101.	99.	101.	207. CMS
MAX	259.	229.	210.	201.	229.	872.	932.	560.	449.	136.	112.	123.	932. CMS
MIN	98.	93.	84.	84.	84.	136.	435.	114.	125.	94.	95.	94.	84. CMS
RUNOFF	327.5	287.5	293.4	302.2	312.4	1127.3	1854.4	594.3	659.1	270.1	239.6	270.1	6538.1 MCM

MOMENTARY PEAK 941.00 CMS, AT 10.97 M (MSL), AT 7.00 HOURS, ON OCT 6, 1982

RUNOFF YIELD 1.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 7.80 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SAKAE KRANG RIVER BASIN

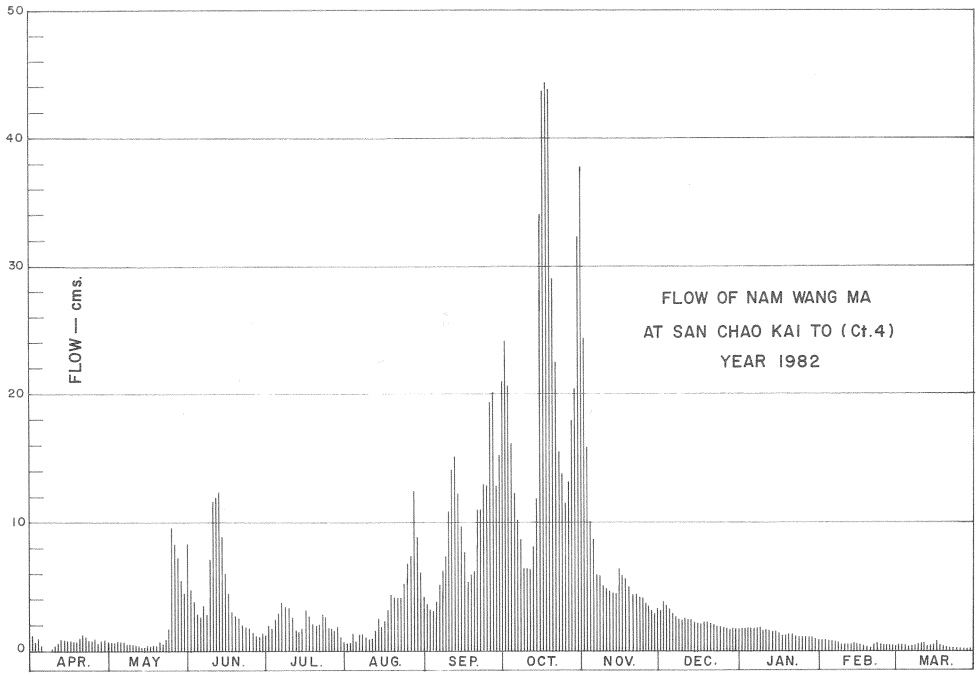
NAM WANG MA AT BAN SAN CHAO KAI TO, NAKHON SAWAN (CT.4)

LOCATION	LAT. 15°-47'-01" N., LONG. 99°-40'-55" E., ON LEFT BANK NEAR THE GAGE OBSERVER'S HOUSE AT BAN SAN CHAO KAI TO, AMPHOE LAT YAO, NAKHON SAWAN.
DRAINAGE AREA	1,246 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK DOWNSTREAM AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	6.323 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1975 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1975 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 164 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.70	1.42	0.98	0.70	1.20	2.42	2.33	1.14	0.94	0.77	0.66	
2	0.70	0.71	1.27	0.98	0.68	1.15	2.33	2.03	1.23	0.94	0.77	0.66	
3	0.79	0.71	1.18	0.95	0.87	1.15	2.22	1.77	1.17	0.95	0.76	0.65	
4	0.67	0.73	1.11	1.03	0.74	1.13	2.03	1.62	1.14	0.94	0.76	0.66	
5	0.50	0.72	1.09	1.11	0.75	1.22	1.92	1.61	1.11	0.93	0.75	0.65	
6	0.40	0.71	1.18	1.20	0.89	1.32	1.76	1.41	1.09	0.95	0.75	0.64	
7	0.46	0.70	1.14	1.22	0.86	1.42	1.65	1.42	1.06	0.96	0.72	0.67	
8	0.40	0.70	1.09	1.18	0.83	1.52	1.57	1.35	1.05	0.97	0.70	0.66	
9	0.50	0.69	1.49	1.18	0.77	1.74	1.45	1.32	1.05	0.92	0.69	0.67	
10	0.68	0.68	1.81	1.16	0.78	1.89	1.45	1.31	1.06	0.94	0.69	0.69	
11	0.70	0.66	1.83	1.08	0.80	2.02	1.44	1.30	1.05	0.92	0.68	0.73	
12	0.75	0.64	1.84	0.93	0.95	1.93	1.55	1.29	1.06	0.91	0.68	0.66	
13	0.75	0.63	1.74	0.88	1.06	1.82	1.72	1.27	1.06	0.91	0.70	0.63	
14	0.74	0.62	1.54	0.91	0.98	1.71	2.03	1.31	1.01	0.90	0.71	0.65	
15	0.74	0.64	1.40	1.01	1.02	1.61	2.78	1.45	1.01	0.89	0.68	0.66	
16	0.73	0.64	1.29	1.15	1.06	1.49	3.12	1.40	1.00	0.86	0.66	0.73	
17	0.72	0.64	1.22	1.10	1.17	1.35	3.15	1.39	1.03	0.84	0.65	0.68	
18	0.72	0.65	1.12	1.05	1.27	1.41	3.13	1.35	1.02	0.85	0.64	0.65	
19	0.78	0.64	1.09	0.97	1.24	1.43	2.74	1.29	1.02	0.87	0.63	0.63	
20	0.85	0.70	1.06	0.97	1.25	1.50	2.51	1.25	1.02	0.86	0.62	0.64	
21	0.80	0.65	1.02	0.99	1.24	1.78	2.23	1.28	0.99	0.89	0.72	0.62	
22	0.79	0.73	0.95	1.11	1.24	1.76	2.03	1.25	0.98	0.82	0.71	0.61	
23	0.75	0.78	0.98	1.11	1.35	1.88	1.97	1.25	0.98	0.82	0.69	0.61	
24	0.75	0.95	0.96	1.05	1.38	1.87	1.89	1.24	0.97	0.81	0.68	0.61	
25	0.78	1.67	0.92	0.95	1.51	2.20	1.80	1.20	0.96	0.84	0.67	0.61	
26	0.72	1.59	0.86	0.96	1.67	2.24	1.93	1.18	0.95	0.82	0.66	0.60	
27	0.74	1.53	0.84	0.91	1.86	2.09	2.18	1.15	0.92	0.82	0.66	0.60	
28	0.75	1.42	0.80	0.98	1.65	1.87	2.27	1.11	0.95	0.83	0.66	0.59	
29	0.76	1.30	0.90	0.92	1.49	2.04	2.70	1.16	0.94	0.80		0.59	
30	0.75	1.28	0.85	0.80	1.34	2.24	2.93	1.15	0.94	0.78		0.59	
31		1.58		0.71	1.24		2.63		0.94	0.77		0.59	
MEAN	0.70	0.87	1.20	1.02	1.12	1.67	2.18	1.38	1.03	0.88	0.70	0.64	
MAX	0.85	1.67	1.84	1.22	1.86	2.24	3.15	2.33	1.23	0.97	0.77	0.73	3.15
MIN	0.40	0.62	0.80	0.71	0.68	1.13	1.44	1.11	0.92	0.77	0.62	0.59	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.23 M (A.D), AT 6.00 HOURS, ON OCT 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.58 M (A.D)
LEFT BANK ELEVATION 6.31 M (A.D)
RIGHT BANK ELEVATION 5.24 M (A.D), DRAINAGE AREA 1246 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.15	0.60	6.06	1.98	0.60	3.70	24.28	22.12	3.16	1.74	0.88	0.44	
2	0.60	0.64	4.40	1.98	0.52	3.25	22.12	15.80	4.00	1.74	0.88	0.44	
3	0.96	0.64	3.52	1.80	1.35	3.25	19.64	11.12	3.43	1.80	0.84	0.40	
4	0.48	0.72	2.89	2.31	0.76	3.07	15.80	8.80	3.16	1.74	0.84	0.44	
5	0.00	0.68	2.73	2.89	0.80	3.90	13.76	8.65	2.89	1.68	0.80	0.40	
6	0.00	0.64	3.52	3.70	1.45	4.92	10.96	5.93	2.73	1.80	0.80	0.36	
7	0.00	0.60	3.16	3.90	1.30	6.06	9.25	6.06	2.52	1.86	0.68	0.48	
8	0.00	0.60	2.73	3.52	1.15	7.38	8.08	5.25	2.45	1.92	0.60	0.44	
9	0.00	0.56	6.97	3.52	0.88	10.64	6.45	4.92	2.45	1.62	0.56	0.48	
10	0.52	0.52	11.78	3.34	0.92	13.22	6.45	4.81	2.52	1.74	0.56	0.56	
11	0.60	0.44	12.14	2.66	1.00	15.60	6.32	4.70	2.45	1.62	0.52	0.72	
12	0.80	0.36	12.32	1.68	1.80	13.94	7.80	4.60	2.52	1.56	0.52	0.44	
13	0.80	0.32	10.64	1.40	2.52	11.96	10.32	4.40	2.52	1.56	0.60	0.32	
14	0.76	0.28	7.66	1.56	1.98	10.16	15.80	4.81	2.17	1.50	0.64	0.40	
15	0.76	0.36	5.80	2.17	2.24	8.65	33.48	6.45	2.17	1.45	0.52	0.44	
16	0.72	0.36	4.60	3.25	2.52	6.97	43.49	5.80	2.10	1.30	0.44	0.72	
17	0.68	0.36	3.90	2.80	3.43	5.25	44.40	5.69	2.31	1.20	0.40	0.52	
18	0.68	0.40	2.98	2.45	4.40	5.93	43.79	5.25	2.24	1.25	0.36	0.40	
19	0.92	0.36	2.73	1.92	4.10	6.19	32.44	4.60	2.24	1.35	0.32	0.32	
20	1.25	0.60	2.52	1.92	4.20	7.10	26.46	4.20	2.24	1.30	0.28	0.36	
21	1.00	0.40	2.24	2.04	4.10	11.28	19.86	4.50	2.04	1.45	0.68	0.28	
22	0.96	0.72	1.80	2.89	4.10	10.96	15.80	4.20	1.98	1.10	0.64	0.24	
23	0.80	0.92	1.98	2.89	5.25	13.04	14.66	4.20	1.98	1.10	0.56	0.24	
24	0.80	1.80	1.86	2.45	5.58	12.86	13.22	4.10	1.92	1.05	0.52	0.24	
25	0.92	9.55	1.62	1.80	7.24	19.20	11.60	3.70	1.86	1.20	0.48	0.24	
26	0.68	8.36	1.30	1.86	9.55	20.08	13.94	3.52	1.80	1.10	0.44	0.20	
27	0.76	7.52	1.20	1.56	12.68	17.00	18.80	3.25	1.62	1.10	0.44	0.20	
28	0.80	6.06	1.00	1.98	9.25	12.86	20.74	2.89	1.80	1.15	0.44	0.18	
29	0.84	4.70	1.50	1.62	6.97	16.00	31.40	3.34	1.74	1.00		0.18	
30	0.80	4.50	1.25	1.00	5.14	20.08	37.71	3.25	1.74	0.92		0.18	
31		8.22		0.64	4.10		29.58		1.74	0.88		0.18	
TOTAL	20.04	62.79	128.80	71.48	111.88	304.50	628.40	180.91	72.49	43.78	16.24	11.44	1652.75 CMSDAY
MEAN	0.67	2.03	4.29	2.31	3.61	10.15	20.27	6.03	2.34	1.41	0.58	0.37	4.53 CMS
MAX	1.25	9.55	12.32	3.90	12.68	20.08	44.40	22.12	4.00	1.92	0.88	0.72	44.40 CMS
MIN	0.00	0.28	1.00	0.64	0.52	3.07	6.32	2.89	1.62	0.88	0.28	0.18	0.00 CMS
RUNOFF	1.731	5.425	11.128	6.176	9.666	26.309	54.294	15.631	6.263	3.783	1.403	0.988	142.798 MCM

MOMENTARY PEAK 46.83 CMS, AT 3.23 M (A.D), AT 8.00 HOURS, ON OCT 18, 1982
RUNOFF YIELD 3.63 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SAKAE KRANG RIVER BASIN

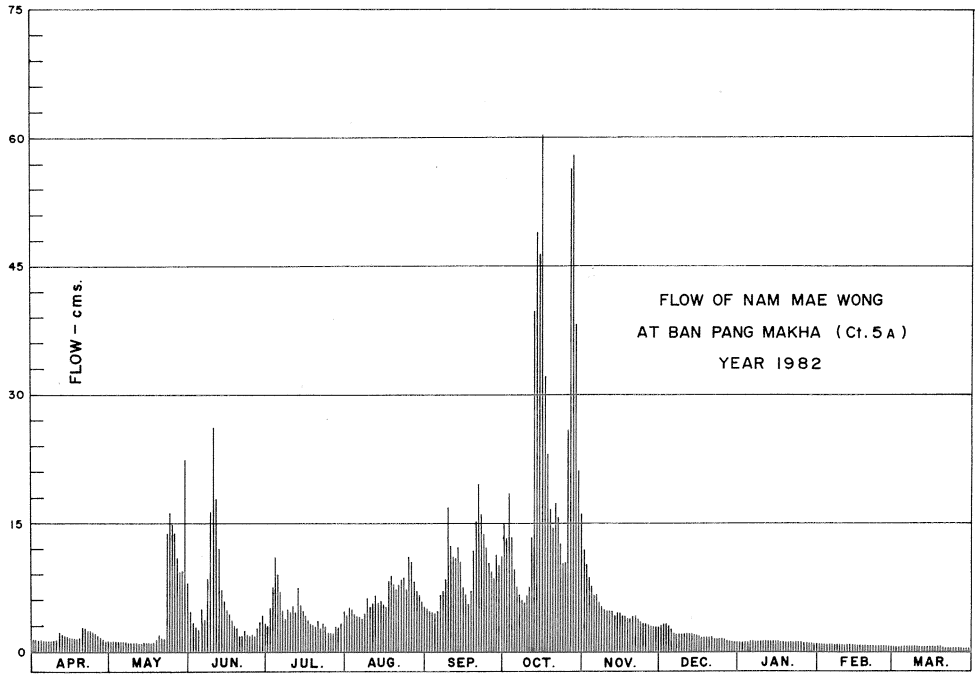
MAE WONG AT BAN PANG MAKHA, KAMPHAENG PHET (CT.5A)

LOCATION	LAT. 15°-54'-10" N., LONG. 99°-28'-45" E., ON LEFT BANK BEHIND WAT PANG MAKHA, AMPHOE KHANU WORALAKSABURI, KAMPHAENG PHET.
DRAINAGE AREA	938 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+4.20 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 169 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.31	0.75	0.68	0.74	0.78	1.09	1.02	0.68	0.56	0.49	0.47	
2	0.34	0.31	0.69	0.78	0.78	0.76	1.04	0.97	0.69	0.56	0.49	0.47	
3	0.34	0.31	0.66	0.88	0.77	0.75	1.16	0.92	0.69	0.56	0.49	0.47	
4	0.34	0.31	0.64	0.98	0.74	0.75	1.04	0.88	0.67	0.56	0.49	0.47	
5	0.34	0.31	0.78	0.95	0.73	0.77	0.94	0.85	0.65	0.56	0.49	0.47	
6	0.33	0.31	0.69	0.84	0.73	0.85	0.89	0.84	0.63	0.56	0.49	0.47	
7	0.33	0.31	0.71	0.76	0.72	0.86	0.85	0.81	0.63	0.55	0.49	0.46	
8	0.33	0.30	1.03	0.71	0.75	0.90	0.82	0.79	0.63	0.55	0.49	0.46	
9	0.33	0.30	1.15	0.76	0.77	1.13	0.80	0.77	0.63	0.55	0.49	0.46	
10	0.33	0.30	1.30	0.75	0.78	1.04	0.83	0.77	0.63	0.55	0.49	0.46	
11	0.43	0.29	1.11	0.80	0.81	0.99	0.89	0.76	0.63	0.54	0.49	0.45	
12	0.40	0.29	0.96	0.75	0.84	0.98	1.07	0.76	0.63	0.54	0.49	0.45	
13	0.39	0.28	0.87	0.88	0.81	1.01	1.51	0.74	0.62	0.54	0.49	0.45	
14	0.38	0.31	0.81	0.80	0.82	0.97	1.61	0.76	0.62	0.54	0.48	0.45	
15	0.37	0.30	0.78	0.77	0.80	0.89	1.58	0.76	0.61	0.54	0.48	0.45	
16	0.36	0.30	0.73	0.74	0.79	0.84	1.73	0.74	0.60	0.53	0.48	0.45	
17	0.36	0.30	0.70	0.71	0.90	0.80	1.41	0.74	0.60	0.53	0.48	0.45	
18	0.35	0.31	0.68	0.69	0.93	0.87	1.23	0.72	0.60	0.53	0.48	0.44	
19	0.35	0.33	0.65	0.68	0.90	1.05	1.11	0.72	0.60	0.53	0.48	0.44	
20	0.45	0.41	0.63	0.66	0.87	1.09	1.07	0.74	0.60	0.53	0.48	0.44	
21	0.44	0.35	0.63	0.69	0.89	1.18	1.14	0.74	0.60	0.53	0.48	0.44	
22	0.43	0.35	0.64	0.65	0.91	1.12	1.10	0.73	0.59	0.53	0.48	0.43	
23	0.43	0.94	0.62	0.69	0.86	1.06	1.03	0.71	0.58	0.53	0.48	0.43	
24	0.42	1.06	0.61	0.66	0.87	1.02	0.96	0.70	0.58	0.53	0.48	0.43	
25	0.40	1.01	0.62	0.63	0.99	0.98	0.97	0.70	0.58	0.52	0.48	0.43	
26	0.39	0.96	0.63	0.63	0.97	0.95	1.37	0.69	0.58	0.52	0.47	0.42	
27	0.36	0.84	0.65	0.63	0.91	0.91	1.69	0.68	0.57	0.52	0.47	0.42	
28	0.34	0.77	0.71	0.67	0.86	1.00	1.71	0.68	0.57	0.51	0.47	0.42	
29	0.32	0.80	0.73	0.66	0.84	0.95	1.40	0.68	0.57	0.50		0.42	
30	0.32	1.24	0.69	0.69	0.82	0.98	1.23	0.68	0.56	0.50		0.42	
31		0.92		0.76	0.80		1.11		0.56	0.50		0.42	
MEAN	0.37	0.50	0.76	0.74	0.83	0.94	1.17	0.77	0.61	0.54	0.48	0.45	
MAX	0.45	1.24	1.30	0.98	0.99	1.18	1.73	1.02	0.69	0.56	0.49	0.47	1.73
MIN	0.32	0.28	0.61	0.63	0.72	0.75	0.80	0.68	0.56	0.50	0.47	0.42	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.05 M (A.D), AT 24.00 HOURS, ON OCT 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 4.23 M (A.D)
RIGHT BANK ELEVATION 4.17 M (A.D), DRAINAGE AREA 938 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.40	1.10	4.50	3.14	4.30	5.10	15.10	12.30	3.14	1.38	0.83	0.68	
2	1.40	1.10	3.32	5.10	5.10	4.70	13.10	10.45	3.32	1.38	0.83	0.68	
3	1.40	1.10	2.78	7.50	4.90	4.50	18.50	8.70	3.32	1.38	0.83	0.68	
4	1.40	1.10	2.42	10.80	4.30	4.50	13.10	7.50	2.96	1.38	0.83	0.68	
5	1.40	1.10	5.10	9.75	4.10	4.90	9.40	6.75	2.60	1.38	0.83	0.68	
6	1.30	1.10	3.32	6.50	4.10	6.75	7.75	6.50	2.24	1.38	0.83	0.68	
7	1.30	1.10	3.70	4.70	3.90	7.00	6.75	5.75	2.24	1.30	0.83	0.60	
8	1.30	1.00	12.70	3.70	4.50	8.00	6.00	5.30	2.24	1.30	0.83	0.60	
9	1.30	1.00	18.00	4.70	4.90	17.00	5.50	4.90	2.24	1.30	0.83	0.60	
10	1.30	1.00	26.00	4.50	5.10	13.10	6.25	4.90	2.24	1.30	0.83	0.60	
11	2.51	0.90	16.00	5.50	5.75	11.15	7.75	4.70	2.24	1.22	0.83	0.52	
12	2.00	0.90	10.10	4.50	6.50	10.80	14.30	4.70	2.24	1.22	0.83	0.52	
13	1.90	0.80	7.25	7.50	5.75	11.90	40.80	4.30	2.06	1.22	0.83	0.52	
14	1.80	1.10	5.75	5.50	6.00	10.45	48.90	4.70	2.06	1.22	0.75	0.52	
15	1.70	1.00	5.10	4.90	5.50	7.75	46.40	4.70	1.88	1.22	0.75	0.52	
16	1.60	1.00	4.10	4.30	5.30	6.50	60.15	4.30	1.70	1.14	0.75	0.52	
17	1.60	1.00	3.50	3.70	8.00	5.50	33.25	4.30	1.70	1.14	0.75	0.52	
18	1.50	1.10	3.14	3.32	9.05	7.25	22.15	3.90	1.70	1.14	0.75	0.45	
19	1.50	1.30	2.60	3.14	8.00	13.50	16.00	3.90	1.70	1.14	0.75	0.45	
20	2.85	2.17	2.24	2.78	7.25	15.10	14.30	4.30	1.70	1.14	0.75	0.45	
21	2.68	1.50	2.24	3.32	7.75	19.50	17.50	4.30	1.70	1.14	0.75	0.45	
22	2.51	1.50	2.42	2.60	8.35	16.50	15.50	4.10	1.62	1.14	0.75	0.38	
23	2.51	13.10	2.06	3.32	7.00	13.90	12.70	3.70	1.54	1.14	0.75	0.38	
24	2.34	16.34	1.88	2.78	7.25	12.30	10.10	3.50	1.54	1.14	0.75	0.38	
25	2.00	14.89	2.06	2.24	11.15	10.80	10.45	3.50	1.54	1.06	0.75	0.38	
26	1.90	13.60	2.24	2.24	10.45	9.75	30.55	3.32	1.54	1.06	0.68	0.30	
27	1.60	10.60	2.60	2.24	8.35	8.35	56.10	3.14	1.46	1.06	0.68	0.30	
28	1.40	8.97	3.70	2.96	7.00	11.50	58.05	3.14	1.46	0.98	0.68	0.30	
29	1.20	9.60	4.10	2.78	6.50	9.75	32.50	3.14	1.46	0.90		0.30	
30	1.20	22.70	3.32	3.32	6.00	10.80	22.15	3.14	1.38	0.90		0.30	
31		8.70		4.70	5.50		16.00		1.38	0.90		0.30	
TOTAL	51.80	143.47	168.24	138.03	197.60	298.60	687.05	151.83	62.14	36.70	21.83	15.24	1972.53 CMSDAY
MEAN	1.73	4.63	5.61	4.45	6.37	9.95	22.16	5.06	2.00	1.18	0.78	0.49	5.40 CMS
MAX	2.85	22.70	26.00	10.80	11.15	19.50	60.15	12.30	3.32	1.38	0.83	0.68	60.15 CMS
MIN	1.20	0.80	1.88	2.24	3.90	4.50	5.50	3.14	1.38	0.90	0.68	0.30	0.30 CMS
RUNOFF	4.476	12.396	14.536	11.926	17.073	25.799	59.361	13.118	5.369	3.171	1.886	1.317	170.427 MCM

MOMENTARY PEAK 96.00 CMS, AT 2.05 M (A.D), AT 24.00 HOURS, ON OCT 15, 1982

RUNOFF YIELD 5.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 102.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SAKAE KRANG RIVER BASIN

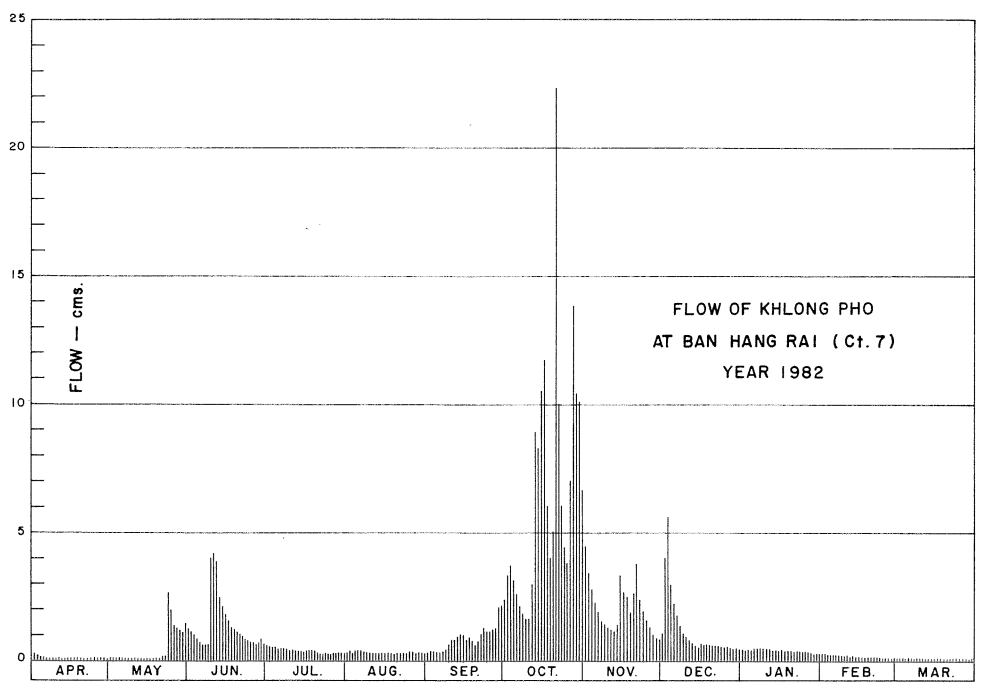
KHLONG PHO AT BAN HANG RAI, NAKHON SAWAN (CT.7)

LOCATION	LAT. 15°-38'-23" N., LONG. 99°-32'-20" E., ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE, BAN HANG RAI, AMPHOE LAT YAO, NAKHON SAWAN.
DRAINAGE AREA	457 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+4.660 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1975 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1975 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1975 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD.. FLOW WAS EFFECTED BY THE CONSTRUCTION OF DAM UPSTREAM. STAGE-DISCHARGE RELATION DEFINED BY 99 DISCHARGE MEASUREMENTS MADE IN 1982

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.57	0.78	0.70	0.65	0.65	0.90	1.04	0.76	0.67	0.65	0.61	
2	0.63	0.56	0.77	0.69	0.66	0.66	0.95	1.00	0.99	0.67	0.65	0.61	
3	0.63	0.56	0.74	0.69	0.65	0.66	0.98	0.95	1.08	0.67	0.65	0.61	
4	0.62	0.55	0.73	0.69	0.67	0.66	0.96	0.91	0.95	0.67	0.64	0.60	
5	0.62	0.56	0.71	0.68	0.67	0.66	0.92	0.88	0.89	0.67	0.64	0.60	
6	0.61	0.56	0.70	0.68	0.67	0.65	0.89	0.86	0.86	0.68	0.64	0.60	
7	0.61	0.55	0.70	0.68	0.66	0.66	0.86	0.84	0.83	0.68	0.63	0.60	
8	0.59	0.55	0.70	0.68	0.66	0.67	0.85	0.82	0.80	0.68	0.63	0.60	
9	0.59	0.55	1.00	0.67	0.66	0.71	0.83	0.81	0.77	0.68	0.63	0.60	
10	0.59	0.55	1.01	0.67	0.65	0.73	0.83	0.80	0.76	0.68	0.63	0.60	
11	0.59	0.55	0.99	0.67	0.65	0.73	0.83	0.79	0.74	0.68	0.63	0.60	
12	0.59	0.56	0.93	0.67	0.65	0.74	0.96	0.79	0.72	0.68	0.62	0.60	
13	0.59	0.56	0.88	0.66	0.65	0.76	1.23	0.78	0.71	0.67	0.62	0.60	
14	0.59	0.56	0.86	0.66	0.65	0.77	1.20	0.81	0.70	0.67	0.62	0.60	
15	0.59	0.57	0.84	0.66	0.65	0.76	1.25	0.95	0.69	0.67	0.62	0.60	
16	0.59	0.57	0.82	0.66	0.65	0.73	1.33	0.91	0.71	0.67	0.62	0.60	
17	0.59	0.57	0.79	0.67	0.65	0.75	1.18	0.91	0.71	0.67	0.62	0.60	
18	0.59	0.57	0.79	0.67	0.65	0.74	1.07	0.89	0.71	0.67	0.62	0.60	
19	0.59	0.57	0.78	0.67	0.65	0.70	1.00	0.85	0.71	0.67	0.62	0.59	
20	0.59	0.58	0.77	0.66	0.65	0.71	1.13	0.90	0.70	0.66	0.62	0.59	
21	0.59	0.57	0.76	0.65	0.65	0.77	1.63	0.98	0.70	0.66	0.62	0.59	
22	0.59	0.63	0.73	0.64	0.65	0.77	1.26	0.90	0.70	0.66	0.62	0.59	
23	0.58	0.73	0.73	0.65	0.65	0.80	1.11	0.86	0.69	0.66	0.61	0.59	
24	0.58	0.91	0.72	0.65	0.65	0.78	1.03	0.84	0.69	0.66	0.61	0.59	
25	0.58	0.81	0.72	0.64	0.66	0.78	0.99	0.82	0.69	0.66	0.61	0.59	
26	0.57	0.80	0.71	0.64	0.66	0.79	1.12	0.81	0.69	0.66	0.61	0.59	
27	0.57	0.79	0.70	0.65	0.65	0.79	1.21	0.77	0.69	0.66	0.61	0.59	
28	0.57	0.78	0.74	0.65	0.65	0.84	1.40	0.75	0.68	0.65	0.61	0.59	
29	0.57	0.77	0.72	0.65	0.65	0.87	1.29	0.74	0.68	0.65		0.59	
30	0.57	0.81	0.71	0.65	0.65	0.87	1.28	0.73	0.68	0.65		0.59	
31		0.79		0.65	0.65		1.10		0.68	0.65		0.59	
MEAN	0.59	0.63	0.78	0.66	0.65	0.74	1.08	0.86	0.75	0.67	0.63	0.60	
MAX	0.64	0.91	1.01	0.70	0.67	0.87	1.63	1.04	1.08	0.68	0.65	0.61	1.63
MIN	0.57	0.55	0.70	0.64	0.65	0.65	0.83	0.73	0.68	0.65	0.61	0.59	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.70 M (A.D), AT 6.00 HOURS, ON OCT 21, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.37 M (A.D)
LEFT BANK ELEVATION 4.37 M (A.D)
RIGHT BANK ELEVATION 4.48 M (A.D), DRAINAGE AREA 457 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.02	1.16	0.60	0.31	0.31	2.50	4.80	1.02	0.43	0.31	0.09	
2	0.20	0.02	1.09	0.54	0.37	0.37	3.25	4.00	3.85	0.43	0.31	0.09	
3	0.20	0.02	0.88	0.54	0.31	0.37	3.70	3.25	5.60	0.43	0.31	0.09	
4	0.14	0.02	0.81	0.54	0.43	0.37	3.40	2.65	3.25	0.43	0.26	0.03	
5	0.14	0.02	0.67	0.49	0.43	0.37	2.80	2.26	2.38	0.43	0.26	0.03	
6	0.09	0.02	0.60	0.49	0.43	0.31	2.38	2.02	2.02	0.49	0.26	0.03	
7	0.09	0.02	0.60	0.49	0.37	0.37	2.02	1.78	1.66	0.49	0.20	0.03	
8	0.03	0.02	0.60	0.49	0.37	0.43	1.90	1.54	1.30	0.49	0.20	0.03	
9	0.03	0.02	4.00	0.43	0.37	0.67	1.66	1.42	1.09	0.49	0.20	0.03	
10	0.03	0.02	4.20	0.43	0.31	0.81	1.66	1.30	1.02	0.49	0.20	0.03	
11	0.03	0.02	3.85	0.43	0.31	0.81	1.66	1.23	0.88	0.49	0.20	0.03	
12	0.03	0.02	2.95	0.43	0.31	0.88	3.40	1.23	0.74	0.49	0.14	0.03	
13	0.03	0.02	2.26	0.37	0.31	1.02	8.98	1.16	0.67	0.43	0.14	0.03	
14	0.03	0.02	2.02	0.37	0.31	1.09	8.20	1.42	0.60	0.43	0.14	0.03	
15	0.03	0.02	1.78	0.37	0.31	1.02	9.50	3.25	0.54	0.43	0.14	0.03	
16	0.03	0.02	1.54	0.37	0.31	0.81	11.70	2.65	0.67	0.43	0.14	0.03	
17	0.03	0.02	1.23	0.43	0.31	0.95	7.76	2.65	0.67	0.43	0.14	0.03	
18	0.03	0.02	1.23	0.43	0.31	0.88	5.40	2.38	0.67	0.43	0.14	0.03	
19	0.03	0.02	1.16	0.43	0.31	0.60	4.00	1.90	0.67	0.43	0.14	0.03	
20	0.03	0.02	1.09	0.37	0.31	0.67	6.66	2.50	0.60	0.37	0.14	0.03	
21	0.03	0.02	1.02	0.31	0.31	1.09	22.32	3.70	0.60	0.37	0.14	0.03	
22	0.03	0.20	0.81	0.26	0.31	1.09	9.76	2.50	0.60	0.37	0.14	0.03	
23	0.02	0.81	0.81	0.31	0.31	1.30	6.22	2.02	0.54	0.37	0.09	0.03	
24	0.02	2.65	0.74	0.31	0.31	1.16	4.60	1.78	0.54	0.37	0.09	0.03	
25	0.02	1.42	0.74	0.26	0.37	1.16	3.85	1.54	0.54	0.37	0.09	0.03	
26	0.02	1.30	0.67	0.26	0.37	1.23	6.44	1.42	0.54	0.37	0.09	0.03	
27	0.02	1.23	0.60	0.31	0.31	1.23	8.46	1.09	0.54	0.37	0.09	0.03	
28	0.02	1.16	0.88	0.31	0.31	1.78	13.80	0.95	0.49	0.31	0.09	0.03	
29	0.02	1.09	0.74	0.31	0.31	2.14	10.54	0.88	0.49	0.31		0.03	
30	0.02	1.42	0.67	0.31	0.31	2.14	10.28	0.81	0.49	0.31		0.03	
31		1.23		0.31	0.31		6.00		0.49	0.31		0.03	
TOTAL	1.73	12.93	41.40	12.30	10.33	27.43	194.80	62.08	35.76	12.79	4.79	1.11	417.45 CMSDAY
MEAN	0.06	0.42	1.38	0.40	0.33	0.91	6.28	2.07	1.15	0.41	0.17	0.04	1.14 CMS
MAX	0.26	2.65	4.20	0.60	0.43	2.14	22.32	4.80	5.60	0.49	0.31	0.09	22.32 CMS
MIN	0.02	0.02	0.60	0.26	0.31	0.31	1.66	0.81	0.49	0.31	0.09	0.03	0.02 CMS
RUNOFF	0.149	1.117	3.577	1.063	0.893	2.370	16.831	5.364	3.090	1.105	0.414	0.096	36.068 MCM

MOMENTARY PEAK 25.40 CMS, AT 1.70 M (A.D), AT 6.00 HOURS, ON OCT 21, 1982

RUNOFF YIELD 2.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 55.58 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SAKAE KRANG RIVER BASIN

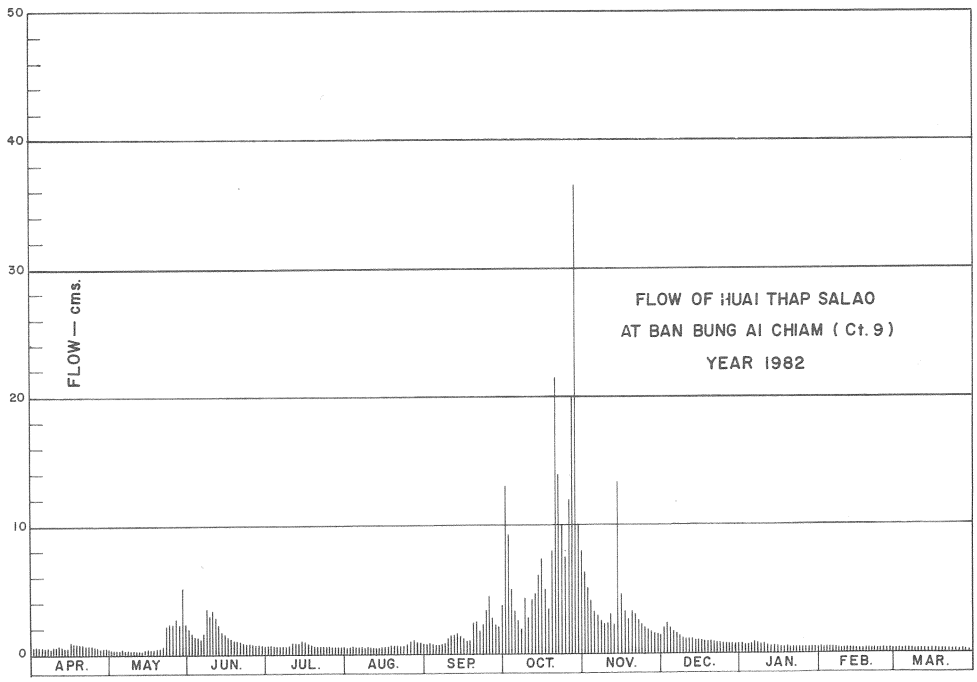
HUAI THAP SALAO AT BAN BUNG AI CHIAM, UTHAI THANI (CT.9)

LOCATION	LAT. 15-31-38 N., LONG. 99-28-10 E., ON LEFT BANK ABOUT 9 KILOMETERS UPSTREAM FROM CT.6, BAN BUNG AI CHIAM, KING AMPHOE LAN SAK, UTHAI THANI.
DRAINAGE AREA	522 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+4.611 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 96 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.54	0.79	0.61	0.57	0.65	1.05	1.20	0.75	0.62	0.56	0.49	
2	0.59	0.53	0.76	0.61	0.58	0.66	1.57	1.12	0.84	0.61	0.56	0.49	
3	0.58	0.53	0.73	0.61	0.58	0.65	1.22	1.06	0.88	0.61	0.56	0.48	
4	0.57	0.52	0.73	0.61	0.57	0.63	1.06	1.01	0.85	0.61	0.55	0.48	
5	0.56	0.52	0.71	0.60	0.57	0.63	0.97	0.96	0.80	0.63	0.55	0.48	
6	0.55	0.55	0.76	0.60	0.56	0.62	0.91	0.94	0.78	0.65	0.55	0.49	
7	0.54	0.52	0.98	0.60	0.55	0.63	0.86	0.91	0.76	0.64	0.54	0.49	
8	0.53	0.51	0.93	0.59	0.55	0.63	0.82	0.88	0.75	0.63	0.54	0.49	
9	0.56	0.51	0.97	0.60	0.57	0.72	1.03	0.87	0.73	0.62	0.54	0.49	
10	0.58	0.51	0.95	0.62	0.57	0.75	0.91	0.88	0.71	0.62	0.54	0.49	
11	0.61	0.50	0.91	0.67	0.57	0.75	0.97	0.94	0.71	0.61	0.53	0.49	
12	0.59	0.50	0.85	0.65	0.58	0.76	1.03	0.88	0.70	0.61	0.53	0.49	
13	0.58	0.49	0.81	0.65	0.58	0.77	1.06	0.85	0.70	0.61	0.53	0.49	
14	0.57	0.50	0.77	0.68	0.59	0.75	1.15	1.58	0.69	0.61	0.53	0.48	
15	0.60	0.50	0.75	0.68	0.58	0.72	1.25	1.11	0.68	0.60	0.52	0.48	
16	0.67	0.50	0.72	0.65	0.57	0.69	1.17	1.00	0.68	0.59	0.52	0.48	
17	0.65	0.51	0.70	0.63	0.59	0.67	1.07	0.95	0.68	0.59	0.52	0.48	
18	0.64	0.52	0.69	0.61	0.61	0.71	1.00	0.91	0.67	0.58	0.52	0.48	
19	0.63	0.54	0.68	0.60	0.62	0.87	0.94	0.89	0.67	0.58	0.51	0.47	
20	0.63	0.56	0.67	0.60	0.61	0.89	1.45	0.97	0.66	0.58	0.51	0.47	
21	0.62	0.55	0.66	0.59	0.61	0.80	1.92	0.95	0.66	0.58	0.50	0.47	
22	0.61	0.65	0.65	0.60	0.61	0.78	1.59	0.91	0.65	0.57	0.50	0.47	
23	0.62	0.86	0.65	0.59	0.62	0.87	1.42	0.88	0.65	0.57	0.50	0.47	
24	0.62	0.88	0.64	0.59	0.63	0.96	1.38	0.85	0.65	0.57	0.50	0.47	
25	0.60	0.87	0.63	0.58	0.67	1.04	1.26	0.83	0.64	0.57	0.50	0.47	
26	0.59	0.90	0.63	0.57	0.70	0.95	1.41	0.81	0.64	0.57	0.50	0.46	
27	0.57	0.92	0.62	0.57	0.69	0.88	1.75	0.79	0.63	0.57	0.50	0.46	
28	0.55	0.85	0.62	0.56	0.68	0.86	2.39	0.78	0.63	0.57	0.50	0.46	
29	0.54	1.09	0.61	0.57	0.66	0.85	1.72	0.77	0.62	0.57		0.46	
30	0.54	0.88	0.61	0.57	0.65	0.95	1.45	0.76	0.62	0.57		0.46	
31		0.83		0.56	0.65		1.31		0.62	0.57		0.46	
MEAN	0.59	0.63	0.74	0.61	0.60	0.77	1.26	0.94	0.70	0.60	0.53	0.48	
MAX	0.67	1.09	0.98	0.68	0.70	1.04	2.39	1.58	0.88	0.65	0.56	0.49	2.39
MIN	0.53	0.49	0.61	0.56	0.55	0.62	0.82	0.76	0.62	0.57	0.50	0.46	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.89 M (A.D), AT 18.00 HOURS, ON OCT 20, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.39 M (A.D)
LEFT BANK ELEVATION 3.68 M (A.D)
RIGHT BANK ELEVATION 3.92 M (A.D), DRAINAGE AREA 522 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.15	1.72	0.37	0.22	0.65	4.50	6.60	1.40	0.44	0.20	0.05	
2	0.27	0.12	1.48	0.37	0.25	0.72	13.10	5.48	2.12	0.37	0.20	0.05	
3	0.25	0.12	1.24	0.37	0.25	0.65	6.92	4.64	2.44	0.37	0.20	0.04	
4	0.22	0.10	1.24	0.37	0.22	0.51	4.64	3.94	2.20	0.37	0.18	0.04	
5	0.20	0.10	1.08	0.30	0.22	0.51	3.44	3.32	1.80	0.51	0.18	0.04	
6	0.18	0.18	1.48	0.30	0.20	0.44	2.72	3.08	1.64	0.65	0.18	0.05	
7	0.15	0.10	3.56	0.30	0.18	0.51	2.28	2.72	1.48	0.58	0.15	0.05	
8	0.12	0.07	2.96	0.27	0.18	0.51	1.96	2.44	1.40	0.51	0.15	0.05	
9	0.20	0.07	3.44	0.30	0.22	1.16	4.22	2.36	1.24	0.44	0.15	0.05	
10	0.25	0.07	3.20	0.44	0.22	1.40	2.72	2.44	1.08	0.44	0.15	0.05	
11	0.37	0.05	2.72	0.79	0.22	1.40	3.44	3.08	1.08	0.37	0.12	0.05	
12	0.27	0.05	2.20	0.65	0.25	1.48	4.22	2.44	1.00	0.37	0.12	0.05	
13	0.25	0.05	1.88	0.65	0.25	1.56	4.64	2.20	1.00	0.37	0.12	0.05	
14	0.22	0.05	1.56	0.86	0.27	1.40	5.90	13.30	0.93	0.37	0.12	0.04	
15	0.30	0.05	1.40	0.86	0.25	1.16	7.40	5.34	0.86	0.30	0.10	0.04	
16	0.79	0.05	1.16	0.65	0.22	0.93	6.18	3.80	0.86	0.27	0.10	0.04	
17	0.65	0.07	1.00	0.51	0.27	0.79	4.78	3.20	0.86	0.27	0.10	0.04	
18	0.58	0.10	0.93	0.37	0.37	1.08	3.80	2.72	0.79	0.25	0.10	0.04	
19	0.51	0.15	0.86	0.30	0.44	2.36	3.08	2.52	0.79	0.25	0.07	0.04	
20	0.51	0.20	0.79	0.30	0.37	2.52	10.75	3.44	0.72	0.25	0.07	0.04	
21	0.44	0.18	0.72	0.27	0.37	1.80	21.40	3.20	0.72	0.25	0.05	0.04	
22	0.37	0.65	0.65	0.30	0.37	1.64	13.50	2.72	0.65	0.22	0.05	0.04	
23	0.44	2.28	0.65	0.27	0.44	2.36	10.18	2.44	0.65	0.22	0.05	0.04	
24	0.44	2.44	0.58	0.27	0.51	3.32	9.48	2.20	0.65	0.22	0.05	0.04	
25	0.30	2.36	0.51	0.25	0.79	4.36	7.56	2.04	0.58	0.22	0.05	0.04	
26	0.27	2.60	0.51	0.22	1.00	3.20	9.99	1.88	0.58	0.22	0.05	0.03	
27	0.22	2.84	0.44	0.22	0.93	2.44	17.00	1.72	0.51	0.22	0.05	0.03	
28	0.18	2.20	0.44	0.20	0.86	2.28	36.44	1.64	0.51	0.22	0.05	0.03	
29	0.15	5.06	0.37	0.22	0.72	2.20	16.28	1.56	0.44	0.22		0.03	
30	0.15	2.44	0.37	0.22	0.65	3.20	10.75	1.48	0.44	0.22		0.03	
31		2.04		0.20	0.65		8.36		0.44	0.22		0.03	
TOTAL	9.55	26.99	41.14	11.97	12.36	48.54	261.63	99.94	31.86	10.20	3.16	1.28	558.62 CMSDAY
MEAN	0.32	0.87	1.37	0.39	0.40	1.62	8.44	3.33	1.03	0.33	0.11	0.04	1.53 CMS
MAX	0.79	5.06	3.56	0.86	1.00	4.36	36.44	13.30	2.44	0.65	0.20	0.05	36.44 CMS
MIN	0.12	0.05	0.37	0.20	0.18	0.44	1.96	1.48	0.44	0.22	0.05	0.03	0.03 CMS
RUNOFF	0.825	2.332	3.554	1.034	1.068	4.194	22.605	8.635	2.753	0.881	0.273	0.111	48.265 MCM

MOMENTARY PEAK 55.60 CMS, AT 2.89 M (A.D), AT 18.00 HOURS, ON OCT 20, 1982

RUNOFF YIELD 2.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 106.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

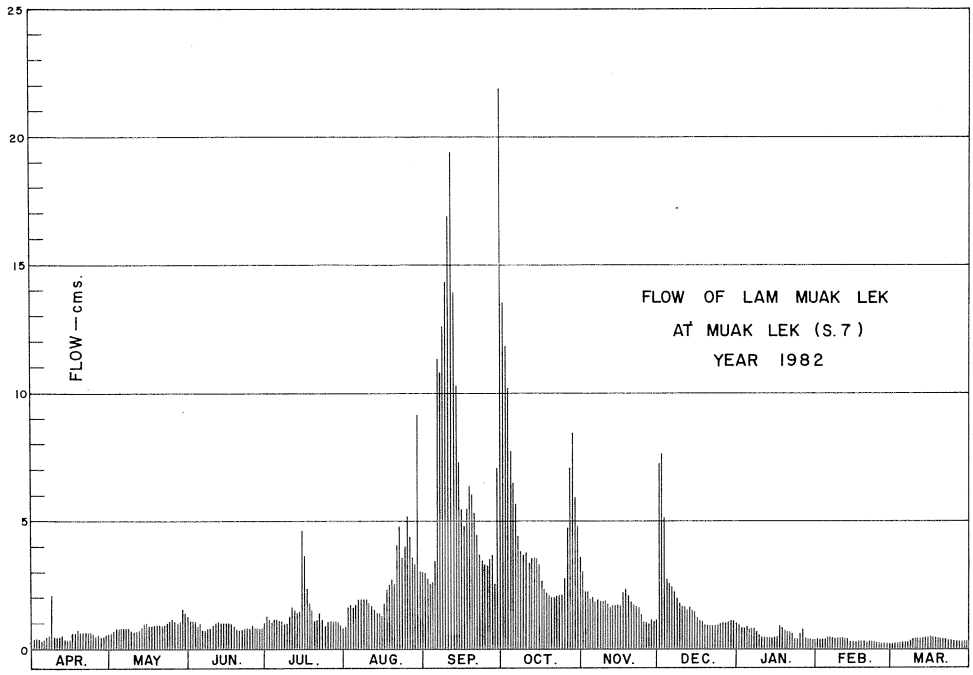
LAM MUAK LEK AT MUAK LEK, SARABURI (S.7)

LOCATION	LAT. 14°-38'-04" N., LONG. 101°-12'-37" E., ON LEFT BANK ABOUT 50 METERS UPSTREAM FROM THE BRIDGE OF SARABURI - NAKHON RATCHASIMA HIGHWAY, TAMBON MUAK LEK, AMPHOE MUAK LEK, SARABURI.
DRAINAGE AREA	177 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+6.919 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.42	0.49	0.51	0.46	0.66	1.28	0.65	0.94	0.47	0.39	0.35	
2	0.39	0.44	0.49	0.50	0.54	0.63	1.22	0.60	0.96	0.45	0.38	0.35	
3	0.38	0.45	0.49	0.48	0.55	0.62	1.16	0.59	0.74	0.46	0.39	0.35	
4	0.37	0.45	0.46	0.50	0.54	0.63	0.98	0.57	0.63	0.46	0.40	0.35	
5	0.39	0.45	0.48	0.50	0.55	0.70	0.89	0.57	0.62	0.45	0.41	0.35	
6	0.40	0.45	0.44	0.49	0.57	1.17	0.86	0.56	0.61	0.45	0.40	0.37	
7	0.42	0.45	0.44	0.49	0.57	1.14	0.75	0.57	0.58	0.45	0.40	0.38	
8	0.58	0.45	0.45	0.47	0.57	1.33	0.72	0.56	0.57	0.44	0.40	0.39	
9	0.41	0.43	0.45	0.47	0.57	1.33	0.71	0.56	0.55	0.41	0.40	0.39	
10	0.41	0.43	0.46	0.51	0.56	1.51	0.72	0.56	0.55	0.40	0.40	0.40	
11	0.41	0.43	0.49	0.54	0.55	1.57	0.69	0.55	0.54	0.40	0.40	0.40	
12	0.42	0.43	0.49	0.53	0.53	1.31	0.70	0.54	0.53	0.40	0.40	0.40	
13	0.39	0.45	0.48	0.52	0.52	1.12	0.70	0.55	0.54	0.40	0.40	0.40	
14	0.37	0.48	0.48	0.53	0.52	0.93	0.70	0.55	0.53	0.40	0.37	0.40	
15	0.39	0.48	0.48	0.77	0.51	0.83	0.68	0.55	0.53	0.40	0.37	0.40	
16	0.43	0.46	0.48	0.69	0.56	0.79	0.64	0.55	0.50	0.41	0.37	0.40	
17	0.43	0.46	0.48	0.60	0.60	0.81	0.60	0.59	0.49	0.46	0.37	0.40	
18	0.45	0.47	0.46	0.55	0.61	0.89	0.59	0.60	0.49	0.45	0.37	0.40	
19	0.44	0.47	0.45	0.52	0.63	0.87	0.58	0.57	0.47	0.44	0.36	0.39	
20	0.44	0.47	0.44	0.49	0.62	0.83	0.57	0.56	0.47	0.43	0.36	0.38	
21	0.44	0.47	0.45	0.50	0.73	0.75	0.57	0.55	0.47	0.43	0.36	0.38	
22	0.44	0.47	0.45	0.52	0.78	0.71	0.58	0.55	0.47	0.42	0.36	0.38	
23	0.43	0.48	0.45	0.49	0.70	0.70	0.58	0.54	0.47	0.39	0.36	0.37	
24	0.42	0.49	0.45	0.47	0.73	0.68	0.58	0.51	0.48	0.39	0.36	0.37	
25	0.41	0.50	0.45	0.49	0.81	0.68	0.62	0.49	0.48	0.42	0.35	0.37	
26	0.42	0.49	0.46	0.49	0.75	0.70	0.75	0.49	0.48	0.45	0.35	0.37	
27	0.41	0.48	0.45	0.49	0.70	0.71	0.93	0.48	0.48	0.40	0.35	0.37	
28	0.41	0.48	0.45	0.49	0.68	0.62	1.01	0.50	0.49	0.39	0.35	0.37	
29	0.42	0.53	0.45	0.49	1.05	0.94	0.86	0.49	0.49	0.38		0.37	
30	0.43	0.52	0.48	0.47	0.66	1.68	0.76	0.50	0.49	0.38		0.37	
31		0.51		0.45	0.66		0.70		0.48	0.39		0.37	
MEAN	0.42	0.47	0.46	0.52	0.63	0.93	0.76	0.55	0.55	0.42	0.38	0.38	
MAX	0.58	0.53	0.49	0.77	1.05	1.68	1.28	0.65	0.96	0.47	0.41	0.40	1.68
MIN	0.37	0.42	0.44	0.45	0.46	0.62	0.57	0.48	0.47	0.38	0.35	0.35	0.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.58 M (A.D), AT 11.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.60 M (A.D)
LEFT BANK ELEVATION 7.69 M (A.D)
RIGHT BANK ELEVATION 7.66 M (A.D), DRAINAGE AREA 177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	0.54	1.03	1.21	0.82	3.00	13.36	2.87	7.18	0.89	0.36	0.20	
2	0.36	0.68	1.03	1.10	1.56	2.62	12.19	2.25	7.52	0.75	0.32	0.20	
3	0.32	0.75	1.03	0.96	1.68	2.50	11.08	2.13	4.08	0.82	0.36	0.20	
4	0.28	0.75	0.82	1.10	1.56	2.62	7.86	1.90	2.62	0.82	0.40	0.20	
5	0.36	0.75	0.96	1.10	1.68	3.50	6.35	1.90	2.50	0.75	0.47	0.20	
6	0.40	0.75	0.68	1.03	1.90	11.26	5.88	1.79	2.38	0.75	0.40	0.28	
7	0.54	0.75	0.68	1.03	1.90	10.72	4.23	1.90	2.02	0.75	0.40	0.32	
8	2.02	0.75	0.75	0.89	1.90	14.37	3.79	1.79	1.90	0.68	0.40	0.36	
9	0.47	0.61	0.75	0.89	1.90	14.37	3.64	1.79	1.68	0.47	0.40	0.36	
10	0.47	0.61	0.82	1.21	1.79	18.11	3.79	1.79	1.68	0.40	0.40	0.40	
11	0.47	0.61	1.03	1.56	1.68	19.37	3.38	1.68	1.56	0.40	0.40	0.40	
12	0.54	0.61	1.03	1.44	1.44	13.96	3.50	1.56	1.44	0.40	0.40	0.40	
13	0.36	0.75	0.96	1.33	1.33	10.36	3.50	1.68	1.56	0.40	0.40	0.40	
14	0.28	0.96	0.96	1.44	1.33	7.01	3.50	1.68	1.44	0.40	0.28	0.40	
15	0.36	0.96	0.96	4.51	1.21	5.41	3.25	1.68	1.44	0.40	0.28	0.40	
16	0.61	0.82	0.96	3.38	1.79	4.80	2.75	1.68	1.10	0.47	0.28	0.40	
17	0.61	0.82	0.96	2.25	2.25	5.10	2.25	2.13	1.03	0.82	0.28	0.40	
18	0.75	0.89	0.82	1.68	2.38	6.35	2.13	2.25	1.03	0.75	0.28	0.40	
19	0.68	0.89	0.75	1.33	2.62	6.04	2.02	1.90	0.89	0.68	0.24	0.36	
20	0.68	0.89	0.68	1.03	2.50	5.41	1.90	1.79	0.89	0.61	0.24	0.32	
21	0.68	0.89	0.75	1.10	3.94	4.23	1.90	1.68	0.89	0.61	0.24	0.32	
22	0.68	0.89	0.75	1.33	4.66	3.64	2.02	1.68	0.89	0.54	0.24	0.32	
23	0.61	0.96	0.75	1.03	3.50	3.50	2.02	1.56	0.89	0.36	0.24	0.28	
24	0.54	1.03	0.75	0.89	3.94	3.25	2.02	1.21	0.96	0.36	0.24	0.28	
25	0.47	1.10	0.75	1.03	5.10	3.25	2.50	1.03	0.96	0.54	0.20	0.28	
26	0.54	1.03	0.82	1.03	4.23	3.50	4.23	1.03	0.96	0.75	0.20	0.28	
27	0.47	0.96	0.75	1.03	3.50	3.64	7.01	0.96	0.96	0.40	0.20	0.28	
28	0.47	0.96	0.75	1.03	3.25	2.50	8.38	1.10	1.03	0.36	0.20	0.28	
29	0.54	1.44	0.75	1.03	9.10	7.18	5.88	1.03	1.03	0.32		0.28	
30	0.61	1.33	0.96	0.89	3.00	21.80	4.37	1.10	1.03	0.32		0.28	
31		1.21		0.75	3.00		3.50		0.96	0.36		0.28	
TOTAL	16.49	26.94	25.44	41.61	82.44	223.37	144.18	50.52	56.50	17.33	8.75	9.76	703.33 CMSDAY
MEAN	0.55	0.87	0.85	1.34	2.66	7.45	4.65	1.68	1.82	0.56	0.31	0.31	1.93 CMS
MAX	2.02	1.44	1.03	4.51	9.10	21.80	13.36	2.87	7.52	0.89	0.47	0.40	21.80 CMS
MIN	0.28	0.54	0.68	0.75	0.82	2.50	1.90	0.96	0.89	0.32	0.20	0.20	0.20 CMS
RUNOFF	1.425	2.328	2.198	3.595	7.123	19.299	12.457	4.365	4.882	1.497	0.756	0.843	60.768 MCM

MOMENTARY PEAK 43.10 CMS, AT 2.58 M (A.D), AT 11.00 HOURS, ON SEP 30, 1982

RUNOFF YIELD 10.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 243.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

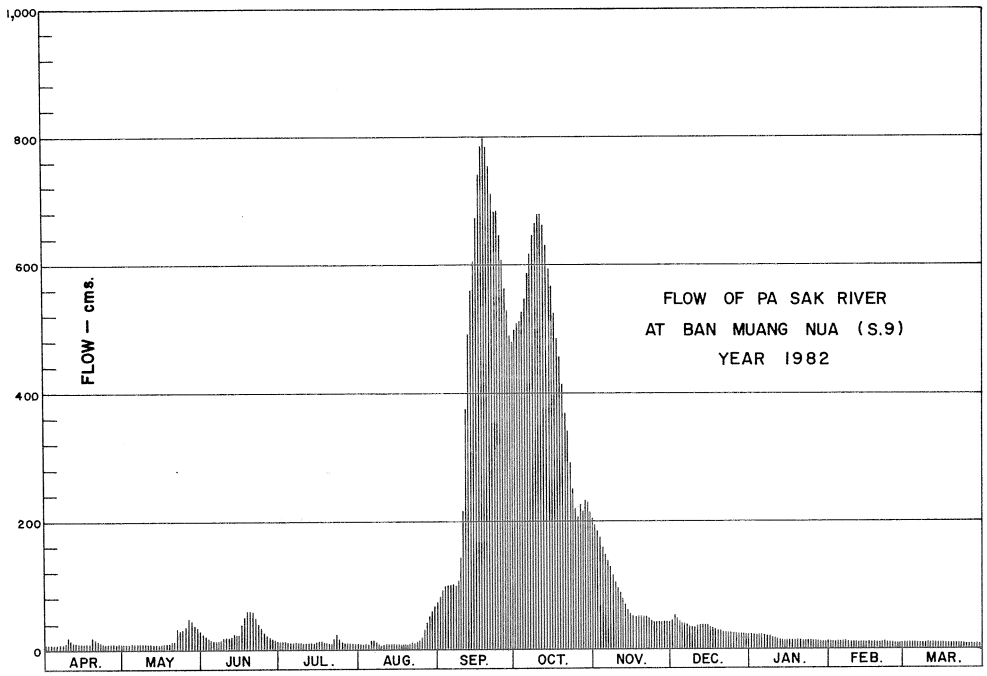
PASAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

LOCATION	LAT. 14°-37'-33" N., LONG. 101°-01'-00" E., ON LEFT BANK AT BAN MUANG NUA RAILWAY BRIDGE, AMPHOE KAENG KHOI, SARABURI.
DRAINAGE AREA	14,374 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+7.492 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+23.099 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
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 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.34	8.35	8.72	8.51	8.36	9.76	13.66	11.12	9.13	8.72	8.44	8.36	
2	8.36	8.35	8.62	8.49	8.39	9.92	13.70	11.02	9.35	8.72	8.44	8.35	
3	8.36	8.38	8.56	8.49	8.37	10.04	13.75	10.94	9.25	8.71	8.44	8.35	
4	8.35	8.39	8.53	8.49	8.36	10.07	13.88	10.83	9.14	8.71	8.43	8.35	
5	8.34	8.39	8.52	8.49	8.37	10.06	14.05	10.71	9.08	8.70	8.43	8.35	
6	8.33	8.39	8.52	8.49	8.57	10.09	14.30	10.58	9.04	8.69	8.42	8.34	
7	8.33	8.38	8.52	8.47	8.46	10.06	14.52	10.40	9.02	8.67	8.42	8.34	
8	8.33	8.37	8.56	8.45	8.42	10.03	14.69	10.27	8.99	8.66	8.42	8.34	
9	8.63	8.36	8.65	8.44	8.37	10.23	14.80	10.14	8.99	8.65	8.41	8.33	
10	8.49	8.35	8.66	8.44	8.35	10.79	14.86	10.02	9.01	8.63	8.40	8.33	
11	8.43	8.35	8.66	8.42	8.35	12.46	14.87	9.88	9.05	8.61	8.40	8.33	
12	8.41	8.34	8.68	8.42	8.34	13.63	14.74	9.74	9.07	8.58	8.40	8.33	
13	8.43	8.34	8.79	8.41	8.33	13.80	14.58	9.60	9.07	8.56	8.40	8.33	
14	8.42	8.35	8.75	8.40	8.33	14.28	14.38	9.48	9.04	8.55	8.40	8.34	
15	8.40	8.36	8.79	8.49	8.32	14.48	14.14	9.38	9.01	8.53	8.39	8.34	
16	8.39	8.38	9.04	8.46	8.31	14.90	13.86	9.31	8.97	8.54	8.39	8.34	
17	8.41	8.39	9.27	8.48	8.31	15.32	13.60	9.30	8.95	8.54	8.39	8.33	
18	8.39	8.36	9.43	8.44	8.32	15.56	13.34	9.34	8.90	8.54	8.39	8.33	
19	8.66	8.41	9.49	8.41	8.34	15.62	13.06	9.31	8.88	8.53	8.39	8.32	
20	8.54	8.49	9.47	8.40	8.35	15.53	12.81	9.31	8.86	8.52	8.39	8.32	
21	8.46	8.47	9.39	8.41	8.37	15.34	12.54	9.29	8.83	8.52	8.38	8.32	
22	8.43	9.00	9.23	8.65	8.41	15.09	12.25	9.23	8.82	8.52	8.38	8.31	
23	8.42	8.83	9.07	8.75	8.45	14.89	11.80	9.19	8.81	8.50	8.37	8.30	
24	8.42	8.95	8.91	8.58	8.46	14.91	11.41	9.17	8.80	8.49	8.37	8.30	
25	8.39	8.99	8.78	8.46	8.57	14.69	11.24	9.15	8.78	8.49	8.37	8.30	
26	8.40	9.27	8.68	8.42	8.82	14.38	11.46	9.15	8.77	8.46	8.37	8.30	
27	8.38	9.20	8.62	8.42	9.02	14.05	11.32	9.15	8.75	8.47	8.37	8.30	
28	8.36	9.19	8.57	8.42	9.26	13.82	11.49	9.15	8.75	8.46	8.36	8.30	
29	8.36	9.09	8.53	8.39	9.40	13.56	11.47	9.14	8.74	8.46		8.30	
30	8.35	8.95	8.53	8.37	9.55	13.51	11.31	9.13	8.74	8.46		8.29	
31		8.82		8.35	9.58		11.22		8.74	8.46		8.29	
MEAN	8.41	8.59	8.82	8.46	8.56	13.03	13.20	9.75	8.95	8.57	8.40	8.32	
MAX	8.66	9.27	9.49	8.75	9.58	15.62	14.87	11.12	9.35	8.72	8.44	8.36	15.62
MIN	8.33	8.34	8.52	8.35	8.31	9.76	11.22	9.13	8.74	8.46	8.36	8.29	8.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.63 M (MSL), AT 21.00 HOURS, ON SEP 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 7.49 M (MSL), RIVER BED 6.13 M (MSL)
LEFT BANK ELEVATION 23.11 M (MSL)
RIGHT BANK ELEVATION 23.25 M (MSL), DRAINAGE AREA 14374 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.2	7.5	20.9	12.4	7.8	77.2	500.4	190.2	40.5	20.9	10.2	7.8	
2	7.8	7.5	16.4	11.7	8.7	88.4	506.0	180.0	52.2	20.9	10.2	7.5	
3	7.8	8.4	14.1	11.7	8.1	96.8	513.0	172.0	46.8	20.4	10.2	7.5	
4	7.5	8.7	13.0	11.7	7.8	98.9	531.2	161.7	41.0	20.4	9.9	7.5	
5	7.2	8.7	12.7	11.7	8.1	98.2	555.0	150.9	38.0	20.0	9.9	7.5	
6	6.9	8.7	12.7	11.7	14.4	100.3	592.0	139.4	36.0	19.5	9.6	7.2	
7	6.9	8.4	12.7	11.1	10.8	98.2	625.0	125.0	35.0	18.6	9.6	7.2	
8	6.9	8.1	14.1	10.5	9.6	96.1	650.5	114.6	33.5	18.2	9.6	7.2	
9	16.8	7.8	17.7	10.2	8.1	111.4	667.0	104.2	33.5	17.7	9.3	6.9	
10	11.7	7.5	18.2	10.2	7.5	158.1	676.0	95.4	34.5	16.8	9.0	6.9	
11	9.9	7.5	18.2	9.6	7.5	343.2	677.5	85.6	36.5	15.9	9.0	6.9	
12	9.3	7.2	19.1	9.6	7.2	496.2	658.0	75.8	37.5	14.8	9.0	6.9	
13	9.9	7.2	24.1	9.3	6.9	520.0	634.0	67.0	37.5	14.1	9.0	6.9	
14	9.6	7.5	22.2	9.0	6.9	589.0	604.0	59.8	36.0	13.8	9.0	7.2	
15	9.0	7.8	24.1	11.7	6.6	619.0	568.0	53.9	34.5	13.0	8.7	7.2	
16	8.7	8.4	36.0	10.8	6.3	682.0	528.4	50.0	32.5	13.4	8.7	7.2	
17	9.3	8.7	47.8	11.4	6.3	747.2	492.0	49.5	31.5	13.4	8.7	6.9	
18	8.7	7.8	56.8	10.2	6.6	785.6	455.6	51.7	29.0	13.4	8.7	6.9	
19	18.2	9.3	60.4	9.3	7.2	795.2	417.8	50.0	28.1	13.0	8.7	6.6	
20	13.4	11.7	59.2	9.0	7.5	780.8	385.3	50.0	27.2	12.7	8.7	6.6	
21	10.8	11.1	54.4	9.3	8.1	750.4	352.8	49.0	25.9	12.7	8.4	6.6	
22	9.9	34.0	45.6	17.7	9.3	710.5	318.0	45.6	25.4	12.7	8.4	6.3	
23	9.6	25.9	37.5	22.2	10.5	680.5	265.0	43.5	24.9	12.0	8.1	6.0	
24	9.6	31.5	29.5	14.8	10.8	683.5	222.1	42.5	24.5	11.7	8.1	6.0	
25	8.7	33.5	23.6	10.8	14.4	650.5	203.4	41.5	23.6	11.7	8.1	6.0	
26	9.0	47.8	19.1	9.6	25.4	604.0	227.6	41.5	23.1	10.8	8.1	6.0	
27	8.4	44.0	16.4	9.6	35.0	555.0	212.2	41.5	22.2	11.1	8.1	6.0	
28	7.8	43.5	14.4	9.6	47.3	522.8	230.9	41.5	22.2	10.8	7.8	6.0	
29	7.8	38.5	13.0	8.7	55.0	486.4	228.7	41.0	21.8	10.8		6.0	
30	7.5	31.5	13.0	8.1	64.0	479.4	211.1	40.5	21.8	10.8		5.7	
31		25.4		7.5	65.8		201.2		21.8	10.8		5.7	
TOTAL	281.8	531.1	786.9	340.7	505.5	13504.8	13909.7	2454.8	978.5	456.8	250.8	208.8	34210.2 CMSDAY
MEAN	9.4	17.1	26.2	11.0	16.3	450.2	448.7	81.8	31.6	14.7	9.0	6.7	93.7 CMS
MAX	18.2	47.8	60.4	22.2	65.8	795.2	677.5	190.2	52.2	20.9	10.2	7.8	795.2 CMS
MIN	6.9	7.2	12.7	7.5	6.3	77.2	201.2	40.5	21.8	10.8	7.8	5.7	5.7 CMS
RUNOFF	24.35	45.89	67.99	29.44	43.68	1166.81	1201.80	212.09	84.54	39.47	21.67	18.04	2955.76 MCM

MOMENTARY PEAK 796.80 CMS, AT 15.63 M (MSL), AT 21.00 HOURS, ON SEP 19, 1982

RUNOFF YIELD 6.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 55.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

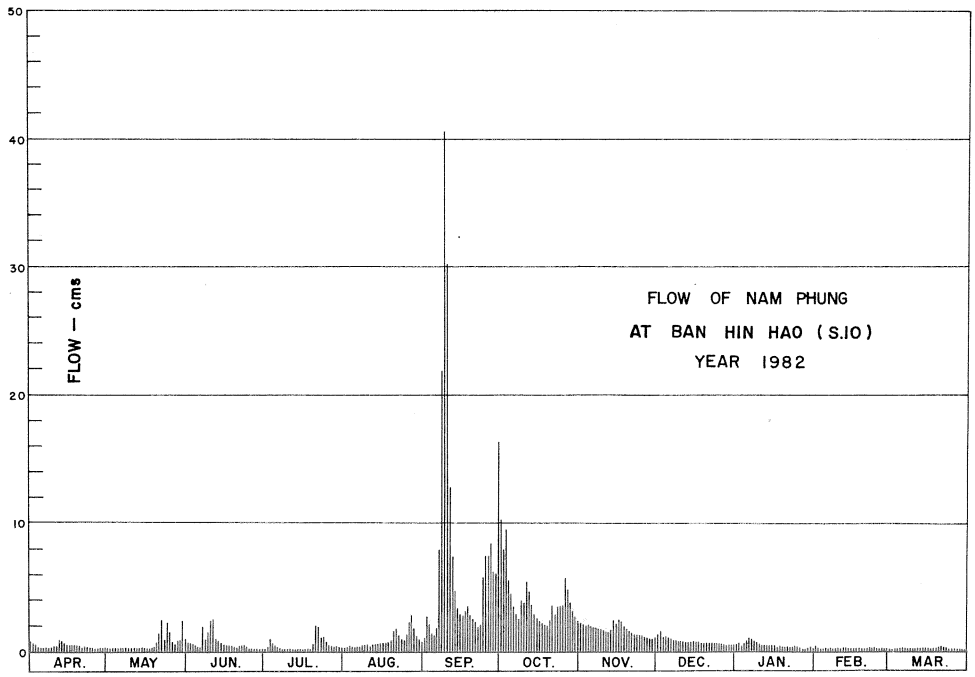
HUAI NAM PHUNG AT BAN NAM KHOP, PHETCHABUN (S.10)

LOCATION	LAT. 16°-56'-50" N., LONG. 101°-13'-10" E., ON RIGHT BANK ABOUT 70 METERS FROM THE BRIDGE ON HIGHWAY, AMPHOE LOM KAO, PHETCHABUN.
DRAINAGE AREA	268 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+8.823 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967, 1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967, 1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.14	0.24	0.10	0.16	0.27	1.31	0.54	0.38	0.20	0.18	0.09	
2	0.23	0.13	0.22	0.10	0.17	0.60	1.12	0.50	0.42	0.22	0.14	0.09	
3	0.19	0.14	0.21	0.30	0.18	0.51	1.24	0.49	0.35	0.16	0.14	0.13	
4	0.16	0.12	0.19	0.21	0.17	0.39	0.91	0.50	0.35	0.21	0.14	0.12	
5	0.16	0.12	0.15	0.17	0.16	0.37	0.78	0.48	0.33	0.28	0.15	0.12	
6	0.16	0.14	0.16	0.13	0.18	0.48	0.68	0.47	0.30	0.31	0.14	0.15	
7	0.18	0.16	0.47	0.09	0.17	1.10	0.62	0.47	0.30	0.29	0.16	0.13	
8	0.15	0.17	0.29	0.10	0.19	1.97	0.57	0.45	0.29	0.27	0.13	0.14	
9	0.16	0.14	0.40	0.08	0.20	2.85	0.74	0.44	0.28	0.24	0.14	0.13	
10	0.20	0.14	0.55	0.09	0.20	2.63	0.73	0.42	0.28	0.21	0.16	0.13	
11	0.19	0.12	0.55	0.07	0.19	1.62	0.88	0.42	0.27	0.20	0.13	0.13	
12	0.30	0.11	0.32	0.04	0.21	1.07	0.83	0.41	0.26	0.18	0.14	0.14	
13	0.30	0.11	0.24	0.04	0.22	0.83	0.70	0.45	0.26	0.20	0.15	0.14	
14	0.24	0.11	0.22	0.07	0.22	0.68	0.63	0.56	0.27	0.19	0.14	0.12	
15	0.21	0.11	0.20	0.08	0.22	0.62	0.58	0.52	0.25	0.20	0.16	0.11	
16	0.20	0.11	0.17	0.07	0.26	0.59	0.53	0.56	0.25	0.18	0.17	0.11	
17	0.20	0.13	0.17	0.06	0.26	0.64	0.50	0.55	0.25	0.17	0.15	0.13	
18	0.21	0.17	0.16	0.04	0.24	0.69	0.48	0.47	0.24	0.19	0.13	0.13	
19	0.20	0.18	0.15	0.03	0.23	0.60	0.47	0.46	0.24	0.15	0.13	0.14	
20	0.18	0.23	0.13	0.25	0.38	0.55	0.56	0.42	0.24	0.16	0.12	0.17	
21	0.17	0.41	0.19	0.49	0.46	0.50	0.69	0.39	0.24	0.17	0.13	0.17	
22	0.19	0.55	0.19	0.46	0.37	0.47	0.60	0.38	0.23	0.15	0.15	0.15	
23	0.17	0.29	0.18	0.34	0.32	0.50	0.68	0.37	0.23	0.15	0.14	0.13	
24	0.15	0.51	0.15	0.33	0.30	0.90	0.69	0.36	0.23	0.18	0.16	0.14	
25	0.15	0.34	0.11	0.26	0.33	1.07	0.69	0.35	0.23	0.19	0.14	0.11	
26	0.14	0.25	0.11	0.21	0.53	1.06	0.91	0.34	0.23	0.17	0.13	0.10	
27	0.13	0.21	0.10	0.18	0.61	1.15	0.83	0.33	0.21	0.14	0.12	0.09	
28	0.16	0.30	0.10	0.17	0.44	0.96	0.70	0.32	0.21	0.17	0.12	0.07	
29	0.15	0.29	0.08	0.18	0.35	0.93	0.64	0.31	0.20	0.16		0.08	
30	0.13	0.54	0.08	0.17	0.31	1.69	0.58	0.34	0.19	0.18		0.10	
31		0.31		0.17	0.27		0.55		0.18	0.16		0.09	
MEAN	0.19	0.22	0.22	0.16	0.27	0.94	0.72	0.44	0.26	0.19	0.14	0.12	
MAX	0.30	0.55	0.55	0.49	0.61	2.85	1.31	0.56	0.42	0.31	0.18	0.17	2.85
MIN	0.13	0.11	0.08	0.03	0.16	0.27	0.47	0.31	0.18	0.14	0.12	0.07	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.47 M (A.D), AT 6.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.29 M (A.D)
LEFT BANK ELEVATION 9.32 M (A.D)
RIGHT BANK ELEVATION 7.86 M (A.D), DRAINAGE AREA 268 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.76	0.22	0.58	0.10	0.28	0.72	10.44	2.28	1.31	0.40	0.34	0.09	
2	0.54	0.19	0.49	0.10	0.31	2.70	7.94	2.00	1.54	0.49	0.22	0.09	
3	0.37	0.22	0.44	0.85	0.34	2.07	9.46	1.94	1.14	0.28	0.22	0.19	
4	0.28	0.16	0.37	0.44	0.31	1.37	5.60	2.00	1.14	0.44	0.22	0.16	
5	0.28	0.16	0.25	0.31	0.28	1.25	4.32	1.88	1.02	0.76	0.25	0.16	
6	0.28	0.22	0.28	0.19	0.34	1.88	3.42	1.83	0.85	0.91	0.22	0.25	
7	0.34	0.28	1.83	0.09	0.31	7.70	2.88	1.83	0.85	0.80	0.28	0.19	
8	0.25	0.31	0.80	0.10	0.37	21.33	2.49	1.71	0.80	0.72	0.19	0.22	
9	0.28	0.22	1.43	0.08	0.40	40.30	3.96	1.66	0.76	0.58	0.22	0.19	
10	0.40	0.22	2.35	0.09	0.40	35.19	3.87	1.54	0.76	0.44	0.28	0.19	
11	0.37	0.16	2.35	0.07	0.37	15.02	5.30	1.54	0.72	0.40	0.19	0.19	
12	0.85	0.13	0.96	0.04	0.44	7.34	4.80	1.48	0.67	0.34	0.22	0.22	
13	0.85	0.13	0.58	0.04	0.49	4.80	3.60	1.71	0.67	0.40	0.25	0.22	
14	0.58	0.13	0.49	0.07	0.49	3.42	2.97	2.42	0.72	0.37	0.22	0.16	
15	0.44	0.13	0.40	0.08	0.49	2.88	2.56	2.14	0.63	0.40	0.28	0.13	
16	0.40	0.13	0.31	0.07	0.67	2.63	2.21	2.42	0.63	0.34	0.31	0.13	
17	0.40	0.19	0.31	0.06	0.67	3.06	2.00	2.35	0.63	0.31	0.25	0.19	
18	0.44	0.31	0.28	0.04	0.58	3.51	1.88	1.83	0.58	0.37	0.19	0.19	
19	0.40	0.34	0.25	0.03	0.54	2.70	1.83	1.77	0.58	0.25	0.19	0.22	
20	0.34	0.54	0.19	0.63	1.31	2.35	2.42	1.54	0.58	0.28	0.16	0.31	
21	0.31	1.48	0.37	1.94	1.77	2.00	3.51	1.37	0.58	0.31	0.19	0.31	
22	0.37	2.35	0.37	1.77	1.25	1.83	2.70	1.31	0.54	0.25	0.25	0.25	
23	0.31	0.80	0.34	1.08	0.96	2.00	3.42	1.25	0.54	0.25	0.22	0.19	
24	0.25	2.07	0.25	1.02	0.85	5.50	3.51	1.20	0.54	0.34	0.28	0.22	
25	0.25	1.08	0.13	0.67	1.02	7.34	3.51	1.14	0.54	0.37	0.22	0.13	
26	0.22	0.63	0.13	0.44	2.21	7.22	5.60	1.08	0.54	0.31	0.19	0.10	
27	0.19	0.44	0.10	0.34	2.79	8.30	4.80	1.02	0.44	0.22	0.16	0.09	
28	0.28	0.85	0.10	0.31	1.66	6.10	3.60	0.96	0.44	0.31	0.16	0.07	
29	0.25	0.80	0.08	0.34	1.14	5.80	3.06	0.91	0.40	0.28		0.08	
30	0.19	2.28	0.08	0.31	0.91	16.14	2.56	1.08	0.37	0.34		0.10	
31		0.91		0.31	0.72		2.35		0.34	0.28		0.09	
TOTAL	11.47	18.08	16.89	12.01	24.67	224.45	122.57	49.19	21.85	12.54	6.37	5.32	525.41 CMSDAY
MEAN	0.38	0.58	0.56	0.39	0.80	7.48	3.95	1.64	0.70	0.40	0.23	0.17	1.44 CMS
MAX	0.85	2.35	2.35	1.94	2.79	40.30	10.44	2.42	1.54	0.91	0.34	0.31	40.30 CMS
MIN	0.19	0.13	0.08	0.03	0.28	0.72	1.83	0.91	0.34	0.22	0.16	0.07	0.03 CMS
RUNOFF	0.991	1.562	1.459	1.038	2.131	19.392	10.590	4.250	1.888	1.083	0.550	0.460	45.395 MCM

MOMENTARY PEAK 55.75 CMS, AT 3.47 M (A.D), AT 6.00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 5.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 208.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

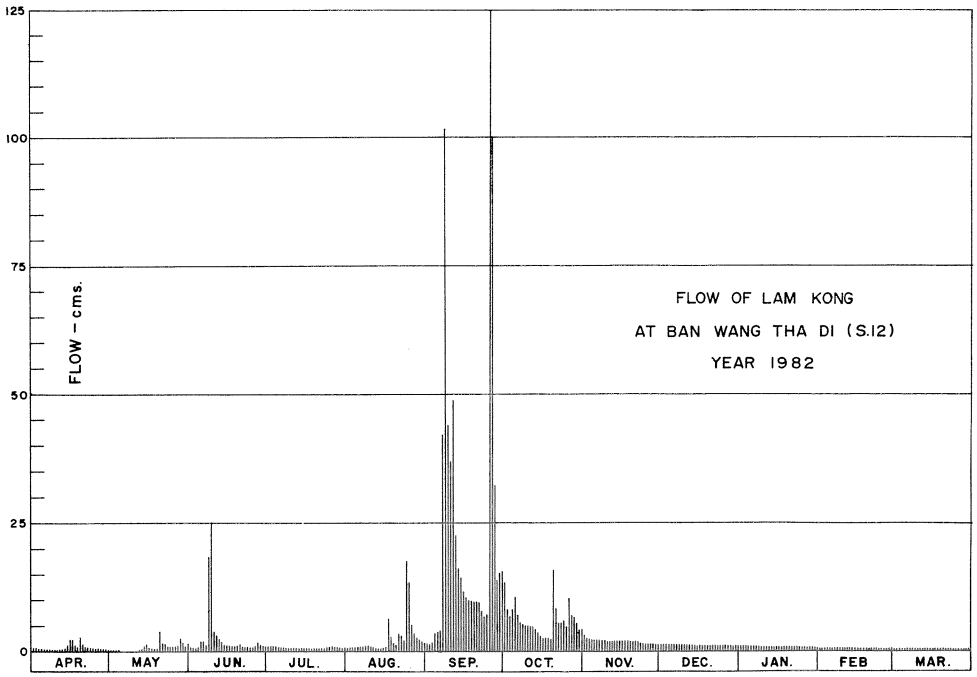
LAM KONG AT BAN WANG THA DI, PHETCHABUN (S.12)

LOCATION	LAT. 15°-59′-50″ N., LONG. 101°-14′-28″ E., ON LEFT BANK AT BAN WANG THA DI, AMPHOE NONG PHAI, PHETCHABUN.
DRAINAGE AREA	471 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE GAGE LINE.
ELEVATION	+5.792 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 76 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.53	0.65	0.67	0.59	0.77	1.71	1.04	0.76	0.67	0.61	0.56	
2	0.61	0.51	0.62	0.68	0.61	0.75	1.45	1.00	0.75	0.67	0.61	0.56	
3	0.58	0.50	0.62	0.68	0.62	0.84	1.37	0.97	0.74	0.68	0.61	0.56	
4	0.56	0.49	0.62	0.68	0.64	1.12	1.46	0.96	0.74	0.68	0.60	0.56	
5	0.55	0.49	0.90	0.63	0.64	1.13	1.59	0.95	0.74	0.69	0.60	0.57	
6	0.54	0.49	0.92	0.61	0.64	1.22	1.37	0.93	0.73	0.70	0.60	0.58	
7	0.54	0.49	0.68	0.61	0.64	1.78	1.30	0.92	0.73	0.70	0.60	0.59	
8	0.53	0.49	1.87	0.61	0.66	3.59	1.27	0.91	0.73	0.70	0.60	0.59	
9	0.52	0.49	2.08	0.60	0.67	2.53	1.28	0.90	0.73	0.69	0.59	0.58	
10	0.52	0.49	1.18	0.60	0.67	2.39	1.25	0.88	0.73	0.68	0.59	0.58	
11	0.52	0.49	1.03	0.60	0.66	2.64	1.26	0.86	0.73	0.67	0.59	0.57	
12	0.52	0.49	0.91	0.59	0.60	1.99	1.25	0.85	0.73	0.66	0.59	0.57	
13	0.55	0.51	0.80	0.59	0.59	1.80	1.20	0.87	0.72	0.65	0.59	0.56	
14	0.70	0.68	0.72	0.58	0.59	1.74	1.13	0.88	0.72	0.65	0.59	0.56	
15	0.96	0.80	0.73	0.58	0.59	1.63	1.10	0.89	0.72	0.65	0.59	0.55	
16	0.96	0.61	0.71	0.58	0.63	1.58	1.01	0.90	0.71	0.65	0.58	0.55	
17	0.67	0.59	0.67	0.58	1.38	1.56	1.02	0.91	0.71	0.65	0.58	0.55	
18	0.63	0.59	0.65	0.58	0.99	1.55	1.02	0.91	0.70	0.65	0.58	0.55	
19	1.03	0.59	0.68	0.58	0.78	1.55	1.00	0.89	0.70	0.65	0.58	0.54	
20	0.73	1.17	0.77	0.57	0.73	1.55	1.79	0.88	0.70	0.64	0.58	0.54	
21	0.68	0.78	0.67	0.57	1.11	1.54	1.48	0.88	0.69	0.64	0.57	0.54	
22	0.64	0.79	0.64	0.56	1.08	1.49	1.30	0.85	0.69	0.64	0.57	0.54	
23	0.61	0.66	0.63	0.56	1.03	1.37	1.27	0.82	0.69	0.64	0.57	0.54	
24	0.60	0.65	0.63	0.61	1.86	1.43	1.32	0.81	0.69	0.63	0.57	0.53	
25	0.59	0.66	0.62	0.63	1.76	2.03	1.24	0.79	0.68	0.63	0.57	0.53	
26	0.58	0.67	0.64	0.67	1.25	3.85	1.57	0.76	0.68	0.63	0.57	0.53	
27	0.57	0.69	0.81	0.65	1.08	2.31	1.38	0.76	0.68	0.63	0.56	0.53	
28	0.56	0.98	0.73	0.64	0.99	1.72	1.38	0.76	0.67	0.62	0.56	0.53	
29	0.55	0.80	0.68	0.63	0.91	1.77	1.27	0.76	0.67	0.62		0.53	
30	0.55	0.72	0.68	0.60	0.83	1.81	1.16	0.76	0.66	0.62		0.52	
31		0.72		0.59	0.79		1.09		0.66	0.62		0.52	
MEAN	0.63	0.63	0.82	0.61	0.86	1.77	1.30	0.88	0.71	0.65	0.59	0.55	
MAX	1.03	1.17	2.08	0.68	1.86	3.85	1.79	1.04	0.76	0.70	0.61	0.59	3.85
MIN	0.52	0.49	0.62	0.56	0.59	0.75	1.00	0.76	0.66	0.62	0.56	0.52	0.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.39 M (A.D), AT 8.00 HOURS, ON SEP 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.10 M (A.D)
LEFT BANK ELEVATION 6.74 M (A.D)
RIGHT BANK ELEVATION 6.00 M (A.D), DRAINAGE AREA 471 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.15	0.75	0.85	0.45	1.35	13.48	2.82	1.30	0.85	0.55	0.30	
2	0.55	0.05	0.60	0.90	0.55	1.25	7.90	2.50	1.25	0.85	0.55	0.30	
3	0.40	0.00	0.60	0.90	0.60	1.70	6.55	2.35	1.20	0.90	0.55	0.30	
4	0.30	0.00	0.60	0.90	0.70	3.48	8.08	2.30	1.20	0.90	0.50	0.30	
5	0.25	0.00	2.00	0.65	0.70	3.57	10.60	2.25	1.20	0.95	0.50	0.35	
6	0.20	0.00	2.10	0.55	0.70	4.46	6.55	2.15	1.15	1.00	0.50	0.40	
7	0.20	0.00	0.90	0.55	0.70	15.44	5.50	2.10	1.15	1.00	0.50	0.45	
8	0.15	0.00	18.10	0.55	0.80	111.65	5.11	2.05	1.15	1.00	0.50	0.45	
9	0.10	0.00	25.12	0.50	0.85	43.35	5.24	2.00	1.15	0.95	0.45	0.40	
10	0.10	0.00	4.02	0.50	0.85	37.10	4.85	1.90	1.15	0.90	0.45	0.40	
11	0.10	0.00	2.74	0.50	0.80	48.50	4.98	1.80	1.15	0.85	0.45	0.35	
12	0.10	0.00	2.05	0.45	0.50	22.06	4.85	1.75	1.15	0.80	0.45	0.35	
13	0.25	0.05	1.50	0.45	0.45	16.00	4.20	1.85	1.10	0.75	0.45	0.30	
14	1.00	0.90	1.10	0.40	0.45	14.32	3.57	1.90	1.10	0.75	0.45	0.30	
15	2.30	1.50	1.15	0.40	0.45	11.52	3.30	1.95	1.10	0.75	0.45	0.25	
16	2.30	0.55	1.05	0.40	0.65	10.40	2.58	2.00	1.05	0.75	0.40	0.25	
17	0.85	0.45	0.85	0.40	6.70	10.00	2.66	2.05	1.05	0.75	0.40	0.25	
18	0.65	0.45	0.75	0.40	2.45	9.80	2.66	2.05	1.00	0.75	0.40	0.25	
19	2.74	0.45	0.90	0.40	1.40	9.80	2.50	1.95	1.00	0.75	0.40	0.20	
20	1.15	3.93	1.35	0.35	1.15	9.80	15.72	1.90	1.00	0.70	0.40	0.20	
21	0.90	1.40	0.85	0.35	3.39	9.60	8.44	1.90	0.95	0.70	0.35	0.20	
22	0.70	1.45	0.70	0.30	3.14	8.62	5.50	1.75	0.95	0.70	0.35	0.20	
23	0.55	0.80	0.65	0.30	2.74	6.55	5.11	1.60	0.95	0.70	0.35	0.20	
24	0.50	0.75	0.65	0.55	17.80	7.54	5.80	1.55	0.95	0.65	0.35	0.15	
25	0.45	0.80	0.60	0.65	14.88	23.42	4.72	1.45	0.90	0.65	0.35	0.15	
26	0.40	0.85	0.70	0.85	4.85	137.00	10.20	1.30	0.90	0.65	0.35	0.15	
27	0.35	0.95	1.55	0.75	3.14	33.90	6.70	1.30	0.90	0.65	0.30	0.15	
28	0.30	2.40	1.15	0.70	2.45	13.76	6.70	1.30	0.85	0.60	0.30	0.15	
29	0.25	1.50	0.90	0.65	2.05	15.16	5.11	1.30	0.85	0.60		0.15	
30	0.25	1.10	0.90	0.50	1.65	16.30	3.84	1.30	0.80	0.60		0.10	
31		1.10		0.45	1.45		3.22		0.80	0.60		0.10	
TOTAL	19.04	21.58	76.88	17.05	79.44	657.40	186.22	56.37	32.40	24.00	12.00	8.05	1190.43 CMSDAY
MEAN	0.63	0.70	2.56	0.55	2.56	21.91	6.01	1.88	1.05	0.77	0.43	0.26	3.26 CMS
MAX	2.74	3.93	25.12	0.90	17.80	137.00	15.72	2.82	1.30	1.00	0.55	0.45	137.00 CMS
MIN	0.10	0.00	0.60	0.30	0.45	1.25	2.50	1.30	0.80	0.60	0.30	0.10	0.00 CMS
RUNOFF	1.645	1.865	6.642	1.473	6.864	56.799	16.089	4.870	2.799	2.074	1.037	0.696	102.853 MCM

MOMENTARY PEAK 199.80 CMS, AT 4.39 M (A.D), AT 8.00 HOURS, ON SEP 26, 1982

RUNOFF YIELD 6.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 424.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

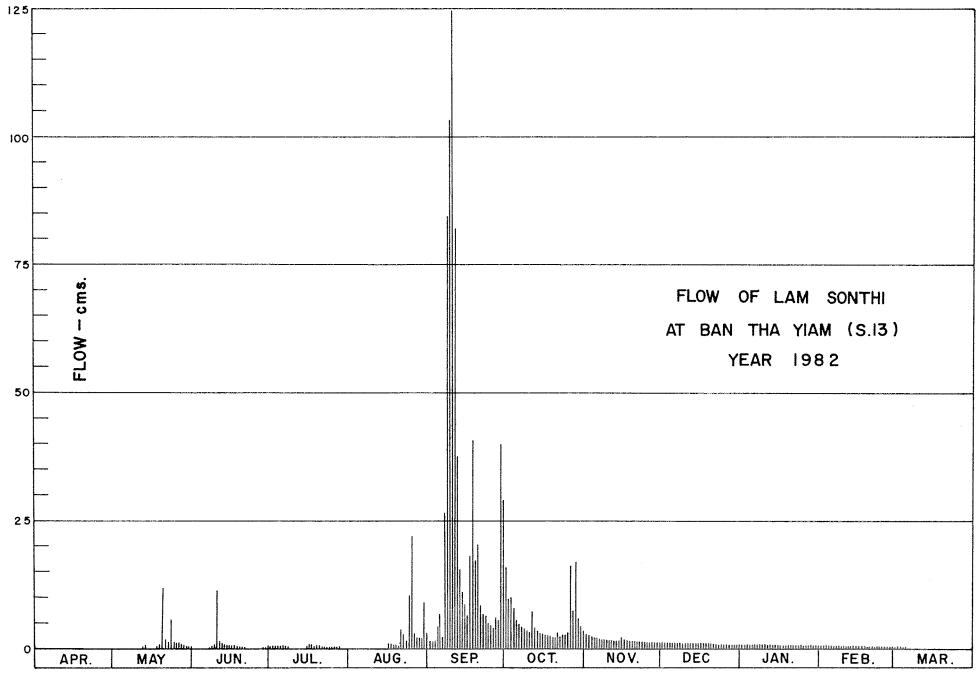
LAM SONTHI AT BAN THA YIAM, LOP BURI (S.13)

LOCATION	LAT. 15°-20'-21" N., LONG. 101°-22'-30" E., ON LEFT BANK NEAR WAT THA YIAM, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	359 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 15 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.697 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
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 82 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.15	0.40	0.45	0.37	0.60	2.28	0.74	0.56	0.49	0.45	0.41	
2	0.39	0.15	0.40	0.42	0.37	0.57	1.57	0.71	0.56	0.49	0.45	0.41	
3	0.38	0.15	0.39	0.44	0.38	0.54	1.63	0.69	0.55	0.49	0.45	0.41	
4	0.37	0.15	0.38	0.46	0.38	0.74	1.25	0.67	0.55	0.48	0.45	0.41	
5	0.36	0.15	0.38	0.47	0.39	1.20	1.05	0.66	0.55	0.48	0.45	0.41	
6	0.36	0.15	0.38	0.45	0.39	0.70	0.98	0.65	0.53	0.48	0.45	0.40	
7	0.35	0.15	0.41	0.42	0.39	2.19	0.93	0.64	0.53	0.48	0.45	0.40	
8	0.35	0.15	0.39	0.41	0.39	6.08	0.87	0.63	0.52	0.48	0.44	0.40	
9	0.34	0.15	0.54	0.39	0.38	6.63	0.83	0.62	0.52	0.48	0.44	0.39	
10	0.34	0.15	1.71	0.39	0.38	7.77	0.80	0.61	0.52	0.48	0.44	0.39	
11	0.34	0.15	0.58	0.38	0.38	7.20	1.30	0.60	0.51	0.48	0.43	0.39	
12	0.33	0.15	0.52	0.38	0.38	3.75	0.97	0.60	0.51	0.47	0.43	0.38	
13	0.33	0.42	0.48	0.38	0.37	2.16	0.83	0.59	0.51	0.47	0.43	0.38	
14	0.33	0.47	0.45	0.37	0.39	1.63	0.78	0.59	0.51	0.46	0.43	0.38	
15	0.32	0.40	0.44	0.46	0.39	1.39	0.75	0.68	0.50	0.46	0.43	0.38	
16	0.32	0.40	0.42	0.50	0.52	1.20	0.74	0.62	0.50	0.46	0.43	0.38	
17	0.32	0.38	0.45	0.44	0.49	2.19	0.71	0.61	0.50	0.46	0.43	0.38	
18	0.31	0.36	0.44	0.42	0.47	3.94	0.70	0.60	0.50	0.46	0.43	0.37	
19	0.31	0.54	0.42	0.46	0.46	2.28	0.69	0.60	0.50	0.46	0.43	0.37	
20	0.31	1.78	0.43	0.45	0.45	2.54	0.68	0.59	0.49	0.46	0.43	0.36	
21	0.31	0.66	0.42	0.42	0.87	1.50	0.78	0.58	0.49	0.46	0.42	0.36	
22	0.30	0.56	0.40	0.41	0.74	1.25	0.71	0.57	0.49	0.46	0.42	0.35	
23	0.30	1.10	0.39	0.41	0.56	1.22	0.72	0.56	0.49	0.46	0.42	0.35	
24	0.29	0.58	0.38	0.40	1.43	1.02	0.74	0.56	0.49	0.46	0.42	0.34	
25	0.28	0.57	0.38	0.41	2.64	0.96	0.77	0.55	0.49	0.45	0.42	0.34	
26	0.28	0.59	0.38	0.41	0.85	0.91	2.20	0.55	0.49	0.45	0.42	0.33	
27	0.15	0.49	0.38	0.41	0.67	1.16	1.34	0.55	0.49	0.45	0.41	0.32	
28	0.15	0.45	0.41	0.40	0.67	1.08	2.26	0.54	0.49	0.45	0.41	0.31	
29	0.15	0.43	0.39	0.40	0.68	3.91	1.23	0.54	0.49	0.45		0.31	
30	0.15	0.42	0.42	0.40	1.49	3.34	0.96	0.53	0.49	0.45		0.30	
31		0.41		0.39	0.77		0.82		0.49	0.45		0.30	
MEAN	0.31	0.41	0.47	0.42	0.63	2.39	1.06	0.61	0.51	0.47	0.43	0.37	
MAX	0.39	1.78	1.71	0.50	2.64	7.77	2.28	0.74	0.56	0.49	0.45	0.41	7.77
MIN	0.15	0.15	0.38	0.37	0.37	0.54	0.68	0.53	0.49	0.45	0.41	0.30	0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.88 M (A.D), AT 20.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.15 M (A.D)
LEFT BANK ELEVATION 9.00 M (A.D)
RIGHT BANK ELEVATION 8.10 M (A.D), DRAINAGE AREA 359 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.35	0.00	1.40	16.96	2.52	1.12	0.63	0.35	0.07	
2	0.00	0.00	0.00	0.14	0.00	1.19	9.40	2.28	1.12	0.63	0.35	0.07	
3	0.00	0.00	0.00	0.28	0.00	0.98	10.00	2.12	1.05	0.63	0.35	0.07	
4	0.00	0.00	0.00	0.42	0.00	2.52	6.60	1.96	1.05	0.56	0.35	0.07	
5	0.00	0.00	0.00	0.49	0.00	6.20	5.00	1.88	1.05	0.56	0.35	0.07	
6	0.00	0.00	0.00	0.35	0.00	2.20	4.44	1.80	0.91	0.56	0.35	0.00	
7	0.00	0.00	0.07	0.14	0.00	15.88	4.04	1.72	0.91	0.56	0.35	0.00	
8	0.00	0.00	0.00	0.07	0.00	83.54	3.56	1.64	0.84	0.56	0.28	0.00	
9	0.00	0.00	0.98	0.00	0.00	96.22	3.24	1.56	0.84	0.56	0.28	0.00	
10	0.00	0.00	10.80	0.00	0.00	124.25	3.00	1.48	0.84	0.56	0.28	0.00	
11	0.00	0.00	1.26	0.00	0.00	110.00	7.00	1.40	0.77	0.56	0.21	0.00	
12	0.00	0.00	0.84	0.00	0.00	37.20	4.36	1.40	0.77	0.49	0.21	0.00	
13	0.00	0.14	0.56	0.00	0.00	15.52	3.24	1.33	0.77	0.49	0.21	0.00	
14	0.00	0.49	0.35	0.00	0.00	10.00	2.84	1.33	0.77	0.42	0.21	0.00	
15	0.00	0.00	0.28	0.42	0.00	7.72	2.60	2.04	0.70	0.42	0.21	0.00	
16	0.00	0.00	0.14	0.70	0.84	6.20	2.52	1.56	0.70	0.42	0.21	0.00	
17	0.00	0.00	0.35	0.28	0.63	15.88	2.28	1.48	0.70	0.42	0.21	0.00	
18	0.00	0.00	0.28	0.14	0.49	40.28	2.20	1.40	0.70	0.42	0.21	0.00	
19	0.00	0.98	0.14	0.42	0.42	16.96	2.12	1.40	0.70	0.42	0.21	0.00	
20	0.00	11.50	0.21	0.35	0.35	20.08	2.04	1.33	0.63	0.42	0.21	0.00	
21	0.00	1.88	0.14	0.14	3.56	8.70	2.84	1.26	0.63	0.42	0.14	0.00	
22	0.00	1.12	0.00	0.07	2.52	6.60	2.28	1.19	0.63	0.42	0.14	0.00	
23	0.00	5.40	0.00	0.07	1.12	6.36	2.36	1.12	0.63	0.42	0.14	0.00	
24	0.00	1.26	0.00	0.00	8.07	4.76	2.52	1.12	0.63	0.42	0.14	0.00	
25	0.00	1.19	0.00	0.07	21.28	4.28	2.76	1.05	0.63	0.35	0.14	0.00	
26	0.00	1.33	0.00	0.07	3.40	3.88	16.00	1.05	0.63	0.35	0.14	0.00	
27	0.00	0.63	0.00	0.07	1.96	5.88	7.32	1.05	0.63	0.35	0.07	0.00	
28	0.00	0.35	0.07	0.00	1.96	5.24	16.72	0.98	0.63	0.35	0.07	0.00	
29	0.00	0.21	0.00	0.00	2.04	39.77	6.44	0.98	0.63	0.35		0.00	
30	0.00	0.14	0.14	0.00	8.61	30.80	4.28	0.91	0.63	0.35		0.00	
31		0.07		0.00	2.76		3.16		0.63	0.35		0.00	
TOTAL	0.00	26.69	16.61	5.04	60.01	730.49	164.12	44.34	23.87	14.42	6.37	0.35	1092.31 CMSDAY
MEAN	0.00	0.86	0.55	0.16	1.94	24.35	5.29	1.48	0.77	0.47	0.23	0.01	2.99 CMS
MAX	0.00	11.50	10.80	0.70	21.28	124.25	16.96	2.52	1.12	0.63	0.35	0.07	124.25 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.98	2.04	0.91	0.63	0.35	0.07	0.00	0.00 CMS
RUNOFF	0.000	2.306	1.435	0.435	5.185	63.114	14.180	3.831	2.062	1.246	0.550	0.030	94.376 MCM

MOMENTARY PEAK 127.00 CMS, AT 7.88 M (A.D), AT 20.00 HOURS ON SEP 10, 1982
RUNOFF YIELD 8.34 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 353.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

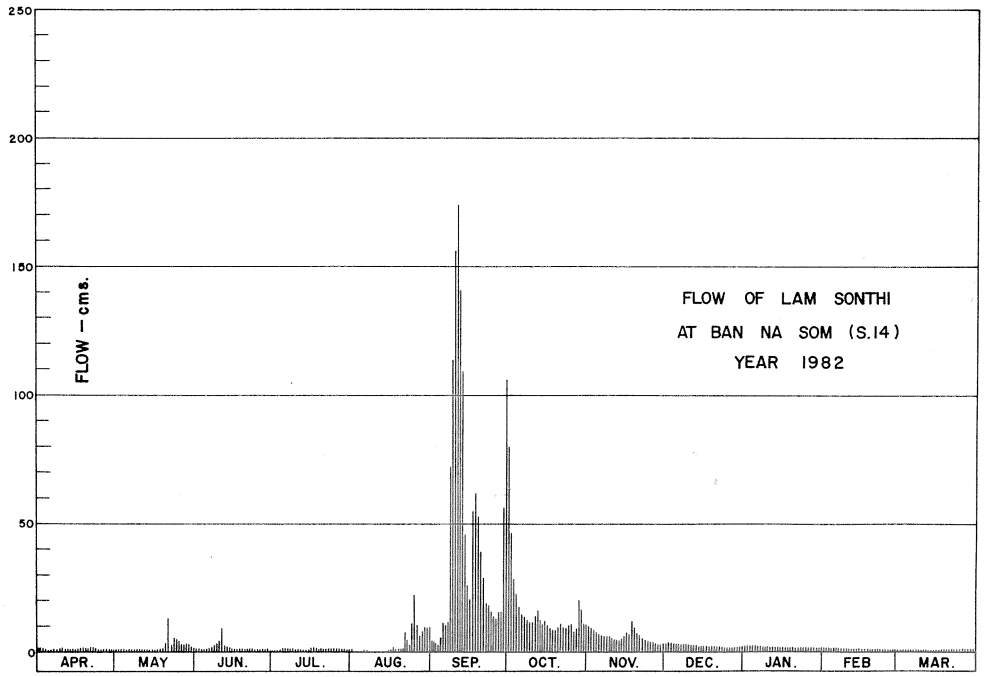
LAM SONTHI AT BAN NA SOM, LOP BURI (S.14)

LOCATION	LAT. 15°-13'-24" N., LONG. 101°-16'-51" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN NA SOM, TAMBON NONG YI TO, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	1,247 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE GAGE OBSERVER'S HOUSE.
ELEVATION	+10.065 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +9.77 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 162 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.33	1.27	1.36	1.27	1.22	1.96	6.74	2.47	1.71	1.48	1.36	1.26	
2	1.43	1.27	1.35	1.27	1.22	1.76	4.66	2.34	1.75	1.48	1.36	1.26	
3	1.34	1.25	1.28	1.28	1.20	1.73	3.85	2.25	1.73	1.48	1.35	1.26	
4	1.29	1.25	1.26	1.37	1.18	1.58	3.52	2.18	1.70	1.47	1.35	1.25	
5	1.27	1.25	1.26	1.37	1.20	2.66	3.08	2.14	1.69	1.47	1.34	1.25	
6	1.26	1.25	1.40	1.38	1.20	2.51	2.88	2.11	1.68	1.47	1.34	1.25	
7	1.25	1.25	1.55	1.29	1.21	2.62	2.79	2.04	1.63	1.46	1.33	1.24	
8	1.28	1.25	1.66	1.25	1.21	5.50	2.68	2.04	1.62	1.46	1.33	1.24	
9	1.27	1.23	1.80	1.24	1.20	8.05	2.60	2.01	1.60	1.45	1.33	1.25	
10	1.49	1.24	1.87	1.22	1.20	8.80	2.55	1.96	1.60	1.45	1.33	1.24	
11	1.34	1.23	2.39	1.22	1.20	9.69	2.75	1.92	1.60	1.44	1.33	1.24	
12	1.29	1.25	1.69	1.22	1.20	8.92	3.01	1.89	1.59	1.43	1.33	1.24	
13	1.27	1.23	1.52	1.22	1.18	7.59	2.72	1.87	1.58	1.43	1.32	1.25	
14	1.27	1.28	1.42	1.21	1.18	5.04	2.58	1.89	1.55	1.43	1.30	1.25	
15	1.36	1.26	1.37	1.34	1.18	3.76	2.61	1.91	1.54	1.42	1.30	1.25	
16	1.36	1.25	1.33	1.44	1.19	3.33	2.47	2.19	1.55	1.41	1.30	1.24	
17	1.44	1.24	1.33	1.44	1.51	5.35	2.38	2.18	1.54	1.41	1.29	1.24	
18	1.46	1.25	1.33	1.31	1.31	5.76	2.31	2.65	1.53	1.40	1.29	1.24	
19	1.55	1.27	1.35	1.29	1.27	5.59	2.30	2.39	1.52	1.40	1.29	1.24	
20	1.54	1.62	1.29	1.25	1.27	4.66	2.29	2.13	1.51	1.39	1.29	1.23	
21	1.43	2.76	1.29	1.27	1.39	4.06	2.54	2.00	1.51	1.38	1.29	1.23	
22	1.38	1.61	1.28	1.29	2.23	3.22	2.44	1.94	1.50	1.37	1.28	1.22	
23	1.33	2.02	1.25	1.29	1.70	3.19	2.34	1.88	1.50	1.37	1.28	1.22	
24	1.29	2.05	1.25	1.37	1.63	3.03	2.48	1.83	1.49	1.36	1.28	1.22	
25	1.28	1.91	1.23	1.27	3.46	2.81	2.53	1.80	1.49	1.36	1.28	1.23	
26	1.28	1.70	1.23	1.24	2.87	2.75	2.29	1.77	1.49	1.36	1.27	1.23	
27	1.28	1.72	1.23	1.23	2.13	2.88	2.23	1.75	1.49	1.37	1.27	1.22	
28	1.27	1.82	1.25	1.23	2.10	2.97	3.32	1.72	1.48	1.37	1.27	1.22	
29	1.29	1.63	1.28	1.23	2.43	5.72	3.16	1.69	1.48	1.38		1.22	
30	1.28	1.43	1.25	1.23	2.36	7.51	2.58	1.69	1.48	1.38		1.22	
31		1.40		1.23	2.49		2.52		1.48	1.38		1.23	
MEAN	1.34	1.47	1.41	1.28	1.59	4.50	2.88	2.02	1.57	1.42	1.31	1.24	
MAX	1.55	2.76	2.39	1.44	3.46	9.69	6.74	2.65	1.75	1.48	1.36	1.26	9.69
MIN	1.25	1.23	1.23	1.21	1.18	1.58	2.23	1.69	1.48	1.36	1.27	1.22	1.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.90 M (A.D), AT 13.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.17 M (A.D)
LEFT BANK ELEVATION 9.77 M (A.D)
RIGHT BANK ELEVATION 9.84 M (A.D), DRAINAGE AREA 1247 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.35	0.80	0.35	0.10	4.64	85.30	9.47	2.67	1.40	0.80	0.30	
2	1.15	0.35	0.75	0.35	0.10	3.02	40.32	8.10	2.95	1.40	0.80	0.30	
3	0.70	0.25	0.40	0.40	0.00	2.81	27.30	7.25	2.81	1.40	0.75	0.30	
4	0.45	0.25	0.30	0.85	0.00	1.90	22.68	6.62	2.60	1.35	0.75	0.25	
5	0.35	0.25	0.30	0.85	0.00	11.72	16.76	6.26	2.54	1.35	0.70	0.25	
6	0.30	0.25	1.00	0.90	0.00	9.92	14.36	5.99	2.48	1.35	0.70	0.25	
7	0.25	0.25	1.75	0.45	0.05	11.24	13.28	5.36	2.18	1.30	0.65	0.20	
8	0.40	0.25	2.36	0.25	0.05	56.10	11.96	5.36	2.12	1.30	0.65	0.20	
9	0.35	0.15	3.30	0.20	0.00	121.10	11.00	5.09	2.00	1.25	0.65	0.25	
10	1.45	0.20	3.86	0.10	0.00	144.50	10.40	4.64	2.00	1.25	0.65	0.20	
11	0.70	0.15	8.60	0.10	0.00	172.98	12.80	4.28	2.00	1.20	0.65	0.20	
12	0.45	0.25	2.54	0.10	0.00	148.34	15.92	4.02	1.95	1.15	0.65	0.20	
13	0.35	0.15	1.60	0.10	0.00	107.93	12.44	3.86	1.90	1.15	0.60	0.25	
14	0.35	0.40	1.10	0.05	0.00	47.19	10.76	4.02	1.75	1.15	0.50	0.25	
15	0.80	0.30	0.85	0.70	0.00	26.04	11.12	4.19	1.70	1.10	0.50	0.25	
16	0.80	0.25	0.65	1.20	0.00	20.02	9.47	6.71	1.75	1.05	0.50	0.20	
17	1.20	0.20	0.65	1.20	1.55	53.14	8.50	6.62	1.70	1.05	0.45	0.20	
18	1.30	0.25	0.65	0.55	0.55	61.82	7.80	11.60	1.65	1.00	0.45	0.20	
19	1.75	0.35	0.75	0.45	0.35	58.08	7.70	8.60	1.60	1.00	0.45	0.20	
20	1.70	2.12	0.45	0.25	0.35	40.32	7.61	6.17	1.55	0.95	0.45	0.15	
21	1.15	12.92	0.45	0.35	0.95	30.36	10.28	5.00	1.55	0.90	0.45	0.15	
22	0.90	2.06	0.40	0.45	7.07	18.56	9.14	4.46	1.50	0.85	0.40	0.10	
23	0.65	5.18	0.25	0.45	2.60	18.17	8.10	3.94	1.50	0.85	0.40	0.10	
24	0.45	5.45	0.25	0.85	2.18	16.16	9.58	3.54	1.45	0.80	0.40	0.10	
25	0.40	4.19	0.15	0.35	21.84	13.52	10.16	3.30	1.45	0.80	0.40	0.15	
26	0.40	2.60	0.15	0.20	14.24	12.80	7.61	3.09	1.45	0.80	0.35	0.15	
27	0.40	2.74	0.15	0.15	6.17	14.36	7.07	2.95	1.45	0.85	0.35	0.10	
28	0.35	3.46	0.25	0.15	5.90	15.44	19.88	2.74	1.40	0.85	0.35	0.10	
29	0.45	2.18	0.40	0.15	9.03	60.94	17.78	2.54	1.40	0.90		0.10	
30	0.40	1.15	0.25	0.15	8.30	105.77	10.76	2.54	1.40	0.90		0.10	
31		1.00		0.15	9.69		10.04		1.40	0.90		0.15	
TOTAL	21.00	49.90	35.36	12.80	91.07	1408.89	477.88	158.31	57.85	33.55	15.40	5.90	2367.91 CMSDAY
MEAN	0.70	1.61	1.18	0.41	2.94	46.96	15.42	5.28	1.87	1.08	0.55	0.19	6.49 CMS
MAX	1.75	12.92	8.60	1.20	21.84	172.98	85.30	11.60	2.95	1.40	0.80	0.30	172.98 CMS
MIN	0.25	0.15	0.15	0.05	0.00	1.90	7.07	2.54	1.40	0.80	0.35	0.10	0.00 CMS
RUNOFF	1.814	4.311	3.055	1.106	7.868	121.728	41.289	13.678	4.998	2.899	1.331	0.510	204.587 MCM

MOMENTARY PEAK 179.70 CMS, AT 9.90 M (A.D), AT 13.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 5.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 144.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

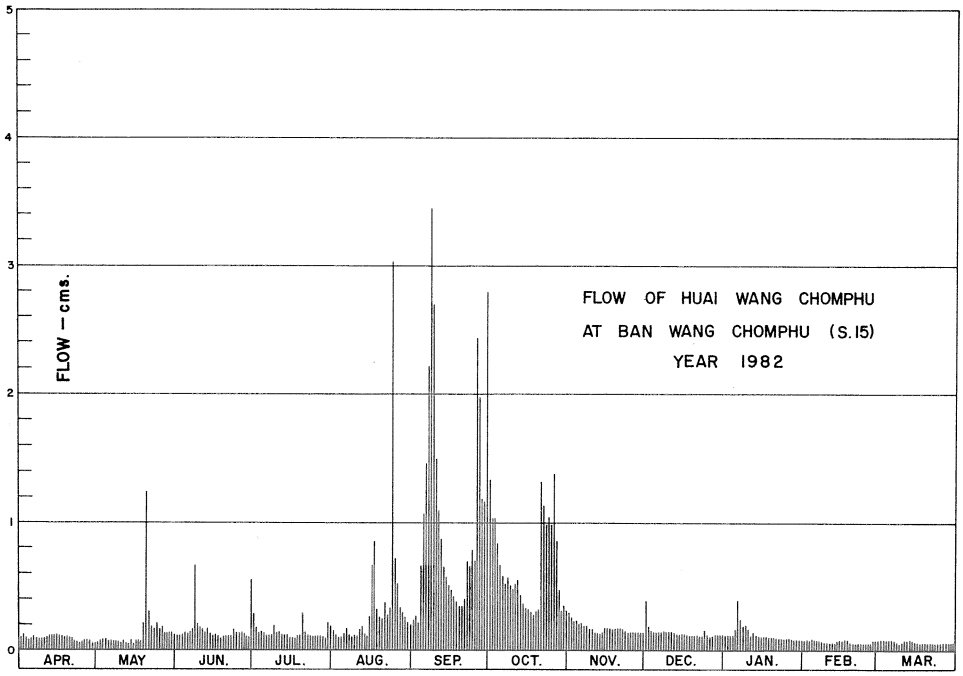
HUAI WANG CHOMPHU AT BAN WANG CHOMPHU, PHETCHABUN (S.15)

LOCATION	LAT. 16°-15'-36" N., LONG. 101°-02'-07" E., ON RIGHT BANK AT THE BRIDGE OF AMPHOE CHON DAN-BAN SAM YAEK WANG CHOMPHU ROAD, BAN WANG CHOMPHU, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	15 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+4.894 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.01	-0.05	0.00	0.08	0.01	0.05	0.33	0.08	0.11	-0.01	-0.04	-0.04	
2	0.00	-0.04	0.00	0.02	0.00	0.06	0.27	0.06	0.03	-0.01	-0.04	-0.04	
3	-0.02	-0.03	0.00	0.01	-0.01	0.04	0.27	0.05	0.01	-0.01	-0.04	-0.04	
4	-0.04	-0.04	0.01	0.01	-0.01	0.18	0.23	0.05	0.01	0.00	-0.04	-0.04	
5	-0.03	-0.04	0.01	0.01	0.00	0.27	0.19	0.04	0.01	0.02	-0.04	-0.04	
6	-0.01	-0.04	0.01	0.00	0.02	0.35	0.17	0.04	0.01	0.11	-0.04	-0.04	
7	-0.02	-0.04	0.03	0.00	0.00	0.43	0.15	0.03	0.01	0.05	-0.04	-0.04	
8	-0.03	-0.04	0.19	0.00	-0.01	0.57	0.16	0.03	0.01	0.03	-0.05	-0.05	
9	-0.03	-0.04	0.04	0.03	0.00	0.50	0.15	0.02	0.01	0.03	-0.05	-0.05	
10	-0.02	-0.05	0.02	0.01	-0.01	0.37	0.14	0.02	0.01	0.02	-0.05	-0.05	
11	-0.01	-0.04	0.02	0.01	0.01	0.28	0.15	0.01	0.01	0.00	-0.05	-0.04	
12	-0.01	-0.05	0.01	0.00	0.04	0.23	0.16	0.01	0.01	0.01	-0.05	-0.04	
13	0.00	-0.05	0.02	0.00	0.01	0.19	0.12	0.01	0.00	0.00	-0.05	-0.04	
14	0.00	-0.04	0.01	0.00	-0.01	0.16	0.11	0.01	0.00	-0.01	-0.04	-0.04	
15	0.00	-0.05	0.00	-0.02	0.05	0.14	0.09	0.02	0.00	-0.01	-0.04	-0.05	
16	0.00	-0.04	0.00	-0.02	0.18	0.13	0.09	0.02	0.00	-0.01	-0.04	-0.05	
17	-0.01	-0.04	0.00	-0.02	0.23	0.12	0.08	0.02	-0.01	-0.01	-0.04	-0.05	
18	-0.02	-0.04	-0.01	-0.01	0.10	0.11	0.07	0.02	-0.01	-0.02	-0.04	-0.05	
19	-0.01	0.04	-0.02	0.00	0.06	0.10	0.07	0.02	-0.01	-0.02	-0.05	-0.05	
20	-0.02	0.31	-0.01	0.07	0.06	0.10	0.09	0.02	-0.01	-0.02	-0.05	-0.05	
21	0.00	0.09	-0.01	0.01	0.11	0.11	0.32	0.02	-0.01	-0.02	-0.05	-0.05	
22	0.00	0.03	-0.01	0.00	0.07	0.20	0.29	0.02	-0.01	-0.03	-0.05	-0.05	
23	0.00	0.02	0.02	-0.01	0.09	0.19	0.26	0.01	0.00	-0.03	-0.05	-0.05	
24	0.00	0.04	0.01	-0.01	0.53	0.22	0.27	0.01	0.01	-0.03	-0.05	-0.05	
25	0.00	0.02	0.01	-0.01	0.21	0.20	0.26	0.01	0.00	-0.03	-0.05	-0.05	
26	0.00	0.03	0.01	-0.01	0.15	0.47	0.33	0.01	-0.01	-0.03	-0.05	-0.05	
27	0.00	0.01	0.01	-0.01	0.10	0.41	0.28	0.01	-0.01	-0.04	-0.05	-0.05	
28	0.00	0.01	-0.01	-0.02	0.08	0.30	0.16	0.01	0.00	-0.04	-0.04	-0.05	
29	0.00	0.01	-0.01	-0.02	0.06	0.39	0.08	0.01	0.00	-0.04		-0.05	
30	0.00	0.01	0.16	0.04	0.04	0.51	0.10	0.01	0.00	-0.04		-0.05	
31		0.01		0.03	0.03		0.08		-0.01	-0.04		-0.05	
MEAN	-0.01	0.00	0.02	0.01	0.07	0.25	0.18	0.02	0.01	-0.01	-0.05	-0.05	
MAX	0.00	0.31	0.19	0.08	0.53	0.57	0.33	0.08	0.11	0.11	-0.04	-0.04	0.57
MIN	-0.04	-0.05	-0.02	-0.02	-0.01	0.04	0.07	0.01	-0.01	-0.04	-0.05	-0.05	-0.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 0.90 M (A.D), AT 5.00 HOURS, ON AUG 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.42 M (A.D)
LEFT BANK ELEVATION 3.87 M (A.D)
RIGHT BANK ELEVATION 4.70 M (A.D), DRAINAGE AREA 15 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.06	0.11	0.29	0.13	0.23	1.36	0.29	0.37	0.10	0.07	0.07	
2	0.11	0.07	0.11	0.16	0.11	0.25	1.02	0.25	0.18	0.10	0.07	0.07	
3	0.09	0.08	0.11	0.13	0.10	0.20	1.02	0.23	0.13	0.10	0.07	0.07	
4	0.07	0.07	0.13	0.13	0.10	0.61	0.83	0.23	0.13	0.11	0.07	0.07	
5	0.08	0.07	0.13	0.13	0.11	1.02	0.65	0.20	0.13	0.16	0.07	0.07	
6	0.10	0.07	0.13	0.11	0.16	1.49	0.58	0.20	0.13	0.37	0.07	0.07	
7	0.09	0.07	0.18	0.11	0.11	2.07	0.51	0.18	0.13	0.23	0.07	0.07	
8	0.08	0.07	0.65	0.11	0.10	3.44	0.54	0.18	0.13	0.18	0.06	0.06	
9	0.08	0.07	0.20	0.18	0.11	2.68	0.51	0.16	0.13	0.18	0.06	0.06	
10	0.09	0.06	0.16	0.13	0.10	1.62	0.48	0.16	0.13	0.16	0.06	0.06	
11	0.10	0.07	0.16	0.13	0.13	1.07	0.51	0.13	0.13	0.11	0.06	0.07	
12	0.10	0.06	0.13	0.11	0.20	0.83	0.54	0.13	0.13	0.13	0.06	0.07	
13	0.11	0.06	0.16	0.11	0.13	0.65	0.41	0.13	0.11	0.11	0.06	0.07	
14	0.11	0.07	0.13	0.11	0.10	0.54	0.37	0.13	0.11	0.10	0.07	0.07	
15	0.11	0.06	0.11	0.09	0.23	0.48	0.32	0.16	0.11	0.10	0.07	0.06	
16	0.11	0.07	0.11	0.09	0.61	0.44	0.32	0.16	0.11	0.10	0.07	0.06	
17	0.10	0.07	0.11	0.09	0.83	0.41	0.29	0.16	0.10	0.10	0.07	0.06	
18	0.09	0.07	0.10	0.10	0.34	0.37	0.27	0.16	0.10	0.09	0.07	0.06	
19	0.10	0.20	0.09	0.11	0.25	0.34	0.27	0.16	0.10	0.09	0.06	0.06	
20	0.09	1.23	0.10	0.27	0.25	0.34	0.32	0.16	0.10	0.09	0.06	0.06	
21	0.11	0.32	0.10	0.13	0.37	0.37	1.30	0.16	0.10	0.09	0.06	0.06	
22	0.11	0.18	0.10	0.11	0.27	0.68	1.12	0.16	0.10	0.08	0.06	0.06	
23	0.11	0.16	0.16	0.10	0.32	0.65	0.97	0.13	0.11	0.08	0.06	0.06	
24	0.11	0.20	0.13	0.10	3.01	0.78	1.02	0.13	0.13	0.08	0.06	0.06	
25	0.11	0.16	0.13	0.10	0.73	0.68	0.97	0.13	0.11	0.08	0.06	0.06	
26	0.11	0.18	0.13	0.10	0.51	2.42	1.36	0.13	0.10	0.08	0.06	0.06	
27	0.11	0.13	0.13	0.10	0.34	1.90	1.07	0.13	0.10	0.07	0.06	0.06	
28	0.11	0.13	0.10	0.09	0.29	1.17	0.54	0.13	0.11	0.07	0.07	0.06	
29	0.11	0.13	0.10	0.09	0.25	1.75	0.29	0.13	0.11	0.07		0.06	
30	0.11	0.13	0.54	0.20	0.20	2.79	0.34	0.13	0.11	0.07		0.06	
31		0.13		0.18	0.18		0.29		0.10	0.07		0.06	
TOTAL	3.01	4.50	4.73	3.99	10.67	32.27	20.39	4.92	3.87	3.55	1.81	1.97	95.68 CMSDAY
MEAN	0.10	0.15	0.16	0.13	0.34	1.08	0.66	0.16	0.12	0.11	0.06	0.06	0.26 CMS
MAX	0.11	1.23	0.65	0.29	3.01	3.44	1.36	0.29	0.37	0.37	0.07	0.07	3.44 CMS
MIN	0.07	0.06	0.09	0.09	0.10	0.20	0.27	0.13	0.10	0.07	0.06	0.06	0.06 CMS
RUNOFF	0.260	0.389	0.409	0.345	0.922	2.788	1.762	0.425	0.334	0.307	0.156	0.170	8.267 MCM

MOMENTARY PEAK 8.00 CMS, AT 0.90 M (A.D), AT 5.00 HOURS, ON AUG 24, 1982
RUNOFF YIELD 17.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 533.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

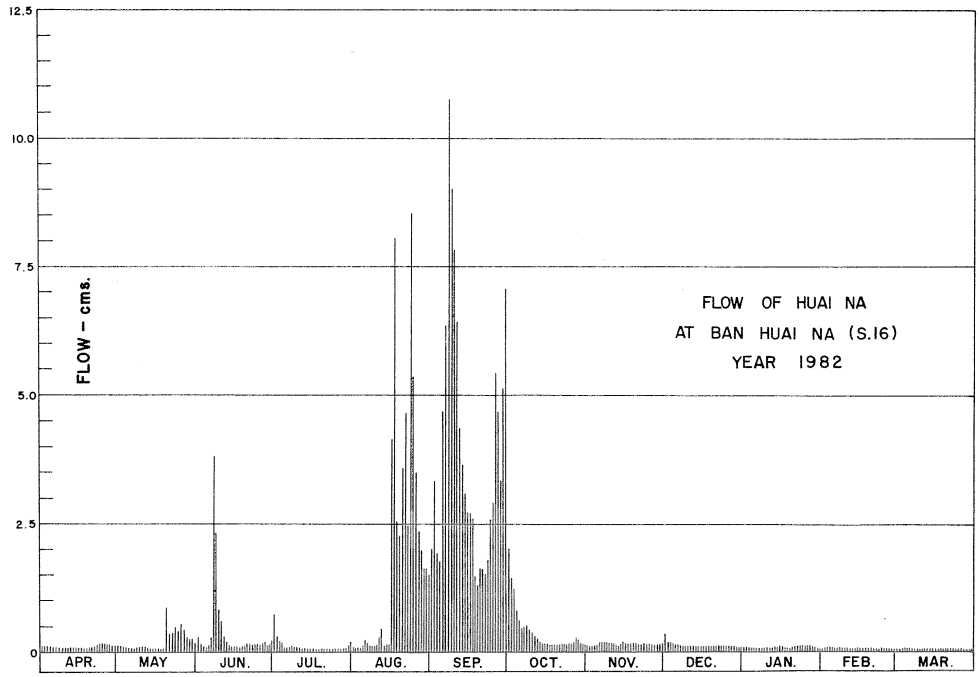
HUAI NA AT BAN HUAI NA, PHETCHABUN (S.16)

LOCATION	LAT. 16°-16'-00" N., LONG. 101°-03'-32" E., ON RIGHT BANK ABOUT 30 METERS DOWNSTREAM FROM THE BRIDGE ON HIGHWAY AT BAN HUAI NA, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	65 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.339 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.11	0.22	0.35	0.07	0.53	0.54	0.09	0.22	0.06	0.05	0.04	
2	0.10	0.11	0.15	0.21	0.06	0.63	0.48	0.08	0.14	0.06	0.06	0.05	
3	0.10	0.11	0.08	0.14	0.06	0.53	0.45	0.09	0.12	0.06	0.07	0.06	
4	0.10	0.10	0.08	0.13	0.06	0.51	0.38	0.12	0.11	0.06	0.07	0.06	
5	0.09	0.09	0.07	0.06	0.12	0.70	0.33	0.13	0.11	0.06	0.05	0.06	
6	0.08	0.07	0.09	0.07	0.16	0.74	0.28	0.13	0.10	0.06	0.05	0.04	
7	0.08	0.07	0.28	0.09	0.11	0.86	0.28	0.13	0.10	0.06	0.06	0.04	
8	0.08	0.07	0.66	0.10	0.10	0.96	0.29	0.13	0.10	0.06	0.06	0.05	
9	0.08	0.08	0.38	0.09	0.10	0.93	0.25	0.12	0.09	0.06	0.05	0.05	
10	0.09	0.09	0.37	0.06	0.10	0.84	0.24	0.12	0.09	0.06	0.05	0.04	
11	0.09	0.08	0.24	0.06	0.14	0.79	0.19	0.12	0.09	0.06	0.06	0.05	
12	0.09	0.07	0.17	0.06	0.27	0.68	0.17	0.11	0.09	0.06	0.05	0.05	
13	0.08	0.06	0.12	0.06	0.10	0.65	0.14	0.10	0.09	0.08	0.05	0.04	
14	0.09	0.06	0.09	0.06	0.10	0.61	0.12	0.13	0.09	0.08	0.05	0.05	
15	0.09	0.05	0.08	0.05	0.12	0.55	0.12	0.14	0.09	0.08	0.05	0.05	
16	0.08	0.05	0.09	0.05	0.50	0.55	0.11	0.12	0.09	0.08	0.05	0.05	
17	0.09	0.05	0.08	0.05	0.86	0.54	0.11	0.12	0.09	0.07	0.06	0.04	
18	0.06	0.05	0.08	0.05	0.59	0.48	0.10	0.12	0.09	0.06	0.06	0.05	
19	0.10	0.08	0.10	0.05	0.54	0.45	0.10	0.12	0.09	0.06	0.05	0.05	
20	0.09	0.38	0.12	0.05	0.60	0.50	0.11	0.12	0.09	0.07	0.04	0.04	
21	0.10	0.21	0.13	0.06	0.65	0.50	0.11	0.11	0.09	0.08	0.04	0.04	
22	0.11	0.24	0.10	0.06	0.71	0.48	0.11	0.11	0.09	0.09	0.05	0.04	
23	0.12	0.23	0.11	0.06	0.57	0.52	0.11	0.12	0.09	0.09	0.04	0.04	
24	0.13	0.28	0.13	0.06	0.88	0.58	0.12	0.11	0.09	0.09	0.06	0.04	
25	0.13	0.24	0.10	0.05	0.70	0.61	0.12	0.11	0.08	0.09	0.05	0.04	
26	0.12	0.31	0.13	0.05	0.64	0.75	0.11	0.11	0.08	0.09	0.05	0.04	
27	0.11	0.23	0.14	0.05	0.57	0.70	0.18	0.11	0.08	0.07	0.05	0.05	
28	0.11	0.19	0.10	0.05	0.53	0.63	0.14	0.11	0.08	0.06	0.04	0.05	
29	0.10	0.18	0.11	0.05	0.50	0.81	0.11	0.11	0.08	0.06		0.05	
30	0.11	0.18	0.16	0.09	0.50	0.82	0.10	0.11	0.07	0.05		0.05	
31		0.13		0.15	0.48		0.10		0.07	0.05		0.04	
MEAN	0.10	0.14	0.16	0.08	0.37	0.65	0.20	0.11	0.10	0.07	0.05	0.05	
MAX	0.13	0.38	0.66	0.35	0.88	0.96	0.54	0.14	0.22	0.09	0.07	0.06	0.96
MIN	0.06	0.05	0.07	0.05	0.06	0.45	0.10	0.08	0.07	0.05	0.04	0.04	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.25 M (A.D), AT 6.00 HOURS, ON AUG 17, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.06 M (A.D)
LEFT BANK ELEVATION 5.02 M (A.D)
RIGHT BANK ELEVATION 3.64 M (A.D), DRAINAGE AREA 65 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.12	0.33	0.70	0.06	1.96	2.08	0.09	0.33	0.05	0.04	0.02	
2	0.10	0.12	0.20	0.31	0.05	3.29	1.46	0.07	0.18	0.05	0.05	0.04	
3	0.10	0.12	0.07	0.18	0.05	1.96	1.25	0.09	0.14	0.05	0.06	0.05	
4	0.10	0.10	0.07	0.16	0.05	1.72	0.82	0.14	0.12	0.05	0.06	0.05	
5	0.09	0.09	0.06	0.05	0.14	4.45	0.63	0.16	0.12	0.05	0.04	0.05	
6	0.07	0.06	0.09	0.06	0.21	5.27	0.47	0.16	0.10	0.05	0.04	0.02	
7	0.07	0.06	0.47	0.09	0.12	8.00	0.47	0.16	0.10	0.05	0.05	0.02	
8	0.07	0.06	3.79	0.10	0.10	10.71	0.49	0.16	0.10	0.05	0.05	0.04	
9	0.07	0.07	0.82	0.09	0.10	9.86	0.40	0.14	0.09	0.05	0.04	0.04	
10	0.09	0.09	0.78	0.05	0.10	7.50	0.38	0.14	0.09	0.05	0.04	0.02	
11	0.09	0.07	0.38	0.05	0.18	6.30	0.27	0.14	0.09	0.05	0.05	0.04	
12	0.09	0.06	0.23	0.05	0.44	4.12	0.23	0.12	0.09	0.05	0.04	0.04	
13	0.07	0.05	0.14	0.05	0.10	3.62	0.18	0.10	0.09	0.07	0.04	0.02	
14	0.09	0.05	0.09	0.05	0.10	2.97	0.14	0.16	0.09	0.07	0.04	0.04	
15	0.09	0.04	0.07	0.04	0.14	2.20	0.14	0.18	0.09	0.07	0.04	0.04	
16	0.07	0.04	0.09	0.04	1.60	2.20	0.12	0.14	0.09	0.07	0.04	0.04	
17	0.09	0.04	0.07	0.04	8.00	2.08	0.12	0.14	0.09	0.06	0.05	0.02	
18	0.05	0.04	0.07	0.04	2.68	1.46	0.10	0.14	0.09	0.05	0.05	0.04	
19	0.10	0.07	0.10	0.04	2.08	1.25	0.10	0.14	0.09	0.05	0.04	0.04	
20	0.09	0.82	0.14	0.04	2.80	1.60	0.12	0.14	0.09	0.06	0.02	0.02	
21	0.10	0.31	0.16	0.05	3.62	1.60	0.12	0.12	0.09	0.07	0.02	0.02	
22	0.12	0.38	0.10	0.05	4.65	1.46	0.12	0.12	0.09	0.09	0.04	0.02	
23	0.14	0.36	0.12	0.05	2.44	1.84	0.12	0.14	0.09	0.09	0.02	0.02	
24	0.16	0.47	0.16	0.05	8.50	2.56	0.14	0.12	0.09	0.09	0.05	0.02	
25	0.16	0.38	0.10	0.04	4.45	2.97	0.14	0.12	0.07	0.09	0.04	0.02	
26	0.14	0.55	0.16	0.04	3.46	5.48	0.12	0.12	0.07	0.09	0.04	0.02	
27	0.12	0.36	0.18	0.04	2.44	4.45	0.25	0.12	0.07	0.06	0.04	0.04	
28	0.12	0.27	0.10	0.04	1.96	3.29	0.18	0.12	0.07	0.05	0.02	0.04	
29	0.10	0.25	0.12	0.04	1.60	6.75	0.12	0.12	0.07	0.05		0.04	
30	0.12	0.25	0.21	0.09	1.60	7.00	0.10	0.12	0.06	0.04		0.04	
31		0.16		0.20	1.46		0.10		0.06	0.04		0.02	
TOTAL	2.97	5.91	9.47	2.92	55.28	119.92	11.48	3.93	3.10	1.86	1.15	0.99	218.98 CMSDAY
MEAN	0.10	0.19	0.32	0.09	1.78	4.00	0.37	0.13	0.10	0.06	0.04	0.03	0.60 CMS
MAX	0.16	0.82	3.79	0.70	8.50	10.71	2.08	0.18	0.33	0.09	0.06	0.05	10.71 CMS
MIN	0.05	0.04	0.06	0.04	0.05	1.25	0.10	0.07	0.06	0.04	0.02	0.02	0.02 CMS
RUNOFF	0.257	0.511	0.818	0.252	4.776	10.361	0.992	0.340	0.268	0.161	0.099	0.086	18.920 MCM

MOMENTARY PEAK 20.20 CMS, AT 1.25 M (A.D), AT 6.00 HOURS, ON AUG 17, 1982
RUNOFF YIELD 9.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 310.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PASAK RIVER BASIN

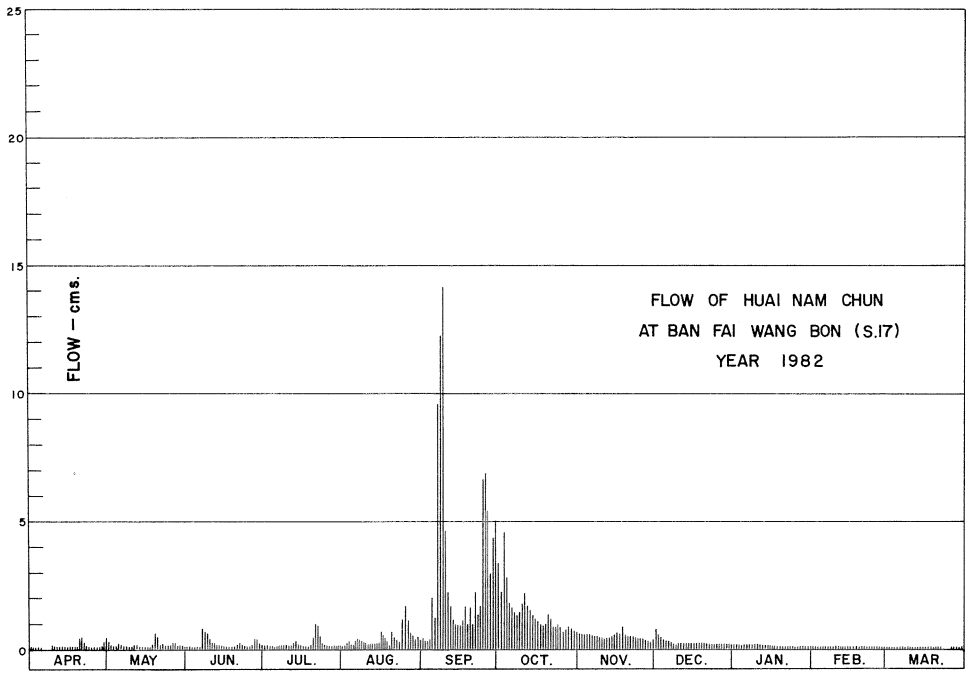
HUAI NAM CHUN AT BAN FAI WANG BON, PHETCHABUN (S.17)

LOCATION	LAT. 16°-45'-43" N., LONG. 101°-08'-44" E., ON LEFT BANK NEAR THE BRIDGE OF PHITSANULOK-LOMSAK ROAD, BAN FAI WANG BON, AMPHOE LOM SAK, PHETCHABUN.
DRAINAGE AREA	67 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+5.982 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.12	0.04	0.10	0.06	0.14	0.38	0.19	0.21	0.10	0.04	0.03	
2	0.06	0.07	0.03	0.08	0.10	0.13	0.33	0.18	0.17	0.10	0.04	0.03	
3	0.06	0.03	0.03	0.08	0.14	0.13	0.45	0.18	0.15	0.10	0.04	0.03	
4	0.06	0.04	0.02	0.06	0.10	0.15	0.35	0.18	0.14	0.10	0.05	0.03	
5	0.04	0.11	0.01	0.05	0.09	0.31	0.30	0.18	0.13	0.10	0.04	0.03	
6	0.00	0.07	0.02	0.08	0.15	0.25	0.29	0.17	0.13	0.10	0.04	0.03	
7	0.00	0.05	0.21	0.08	0.15	0.66	0.27	0.17	0.12	0.10	0.04	0.03	
8	0.00	0.03	0.20	0.08	0.12	0.78	0.26	0.17	0.11	0.10	0.04	0.03	
9	0.09	0.05	0.20	0.08	0.12	0.85	0.27	0.15	0.10	0.10	0.04	0.03	
10	0.06	0.04	0.13	0.08	0.11	0.46	0.30	0.15	0.11	0.09	0.04	0.02	
11	0.06	0.10	0.13	0.08	0.10	0.34	0.32	0.15	0.11	0.09	0.03	0.02	
12	0.06	0.10	0.10	0.09	0.11	0.29	0.29	0.15	0.11	0.08	0.03	0.02	
13	0.06	0.04	0.08	0.14	0.11	0.24	0.28	0.15	0.11	0.08	0.03	0.02	
14	0.06	0.04	0.08	0.10	0.11	0.23	0.26	0.18	0.11	0.07	0.04	0.02	
15	0.06	0.06	0.06	0.08	0.12	0.22	0.25	0.18	0.11	0.07	0.03	0.01	
16	0.05	0.04	0.04	0.05	0.20	0.22	0.24	0.20	0.11	0.07	0.03	0.01	
17	0.06	0.03	0.04	0.05	0.17	0.24	0.23	0.18	0.11	0.06	0.03	0.01	
18	0.06	0.03	0.04	0.05	0.13	0.29	0.22	0.22	0.11	0.06	0.03	0.01	
19	0.06	0.20	0.10	0.05	0.12	0.23	0.22	0.18	0.11	0.06	0.03	0.01	
20	0.17	0.17	0.10	0.14	0.19	0.28	0.26	0.17	0.11	0.06	0.03	0.01	
21	0.13	0.08	0.13	0.23	0.15	0.23	0.25	0.16	0.11	0.06	0.03	0.01	
22	0.06	0.11	0.10	0.22	0.14	0.32	0.22	0.16	0.10	0.06	0.03	0.01	
23	0.06	0.05	0.06	0.12	0.13	0.26	0.22	0.16	0.10	0.06	0.03	0.00	
24	0.04	0.09	0.05	0.10	0.23	0.29	0.23	0.15	0.10	0.06	0.03	-0.01	
25	0.03	0.04	0.05	0.10	0.29	0.55	0.21	0.15	0.10	0.06	0.02	0.00	
26	0.03	0.12	0.05	0.08	0.29	0.56	0.20	0.14	0.10	0.06	0.02	0.01	
27	0.03	0.12	0.15	0.07	0.21	0.42	0.21	0.14	0.10	0.05	0.02	0.01	
28	0.03	0.06	0.15	0.07	0.17	0.36	0.22	0.13	0.10	0.05	0.02	0.01	
29	0.12	0.09	0.10	0.07	0.15	0.44	0.21	0.13	0.10	0.05		0.01	
30	0.16	0.07	0.08	0.07	0.15	0.47	0.20	0.12	0.10	0.04		0.01	
31		0.03		0.07	0.13		0.19		0.10	0.04		0.01	
MEAN	0.06	0.07	0.09	0.09	0.15	0.34	0.26	0.16	0.12	0.07	0.03	0.02	
MAX	0.17	0.20	0.21	0.23	0.29	0.85	0.45	0.22	0.21	0.10	0.05	0.03	0.85
MIN	0.00	0.03	0.01	0.05	0.06	0.13	0.19	0.12	0.10	0.04	0.02	-0.01	-0.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.45 M (A.D), AT 5.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.21 M (A.D)
LEFT BANK ELEVATION 7.18 M (A.D)
RIGHT BANK ELEVATION 7.20 M (A.D), DRAINAGE AREA 67 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.25	0.06	0.15	0.09	0.35	3.19	0.60	0.76	0.15	0.06	0.04	
2	0.09	0.11	0.04	0.12	0.15	0.30	2.29	0.55	0.50	0.15	0.06	0.04	
3	0.09	0.04	0.04	0.12	0.35	0.30	4.52	0.55	0.40	0.15	0.06	0.04	
4	0.09	0.06	0.03	0.09	0.15	0.40	2.65	0.55	0.35	0.15	0.08	0.04	
5	0.06	0.20	0.02	0.08	0.14	1.93	1.75	0.55	0.30	0.15	0.06	0.04	
6	0.00	0.11	0.03	0.12	0.40	1.20	1.64	0.50	0.30	0.15	0.06	0.04	
7	0.00	0.08	0.76	0.12	0.40	9.17	1.42	0.50	0.25	0.15	0.06	0.04	
8	0.00	0.04	0.65	0.12	0.25	12.19	1.31	0.50	0.20	0.15	0.06	0.04	
9	0.14	0.08	0.65	0.12	0.25	14.10	1.42	0.40	0.15	0.15	0.06	0.04	
10	0.09	0.06	0.30	0.12	0.20	4.72	1.75	0.40	0.20	0.14	0.06	0.03	
11	0.09	0.15	0.30	0.12	0.15	2.47	2.11	0.40	0.20	0.14	0.04	0.03	
12	0.09	0.15	0.15	0.14	0.20	1.64	1.64	0.40	0.20	0.12	0.04	0.03	
13	0.09	0.06	0.12	0.35	0.20	1.09	1.53	0.40	0.20	0.12	0.04	0.03	
14	0.09	0.06	0.12	0.15	0.20	0.98	1.31	0.55	0.20	0.11	0.06	0.03	
15	0.09	0.09	0.09	0.12	0.25	0.87	1.20	0.55	0.20	0.11	0.04	0.02	
16	0.08	0.06	0.06	0.08	0.65	0.87	1.09	0.65	0.20	0.11	0.04	0.02	
17	0.09	0.04	0.06	0.08	0.50	1.09	0.98	0.55	0.20	0.09	0.04	0.02	
18	0.09	0.04	0.06	0.08	0.30	1.64	0.87	0.87	0.20	0.09	0.04	0.02	
19	0.09	0.65	0.15	0.08	0.25	0.98	0.87	0.55	0.20	0.09	0.04	0.02	
20	0.50	0.50	0.15	0.35	0.60	1.53	1.31	0.50	0.20	0.09	0.04	0.02	
21	0.30	0.12	0.30	0.98	0.40	0.98	1.20	0.45	0.20	0.09	0.04	0.02	
22	0.09	0.20	0.15	0.87	0.35	2.11	0.87	0.45	0.15	0.09	0.04	0.02	
23	0.09	0.08	0.09	0.25	0.30	1.31	0.87	0.45	0.15	0.09	0.04	0.00	
24	0.06	0.14	0.08	0.15	0.98	1.64	0.98	0.40	0.15	0.09	0.04	0.00	
25	0.04	0.06	0.08	0.15	1.64	6.60	0.76	0.40	0.15	0.09	0.03	0.00	
26	0.04	0.25	0.08	0.12	1.64	6.82	0.65	0.35	0.15	0.09	0.03	0.02	
27	0.04	0.25	0.40	0.11	0.76	3.94	0.76	0.35	0.15	0.08	0.03	0.02	
28	0.04	0.09	0.40	0.11	0.50	2.83	0.87	0.30	0.15	0.08	0.03	0.02	
29	0.25	0.14	0.15	0.11	0.40	4.33	0.76	0.30	0.15	0.08		0.02	
30	0.45	0.11	0.12	0.11	0.40	4.92	0.65	0.25	0.15	0.06		0.02	
31		0.04		0.11	0.30		0.60		0.15	0.06		0.02	
TOTAL	3.35	4.31	5.69	5.78	13.35	93.30	43.82	14.22	7.11	3.46	1.32	0.79	196.50 CMSDAY
MEAN	0.11	0.14	0.19	0.19	0.43	3.11	1.41	0.47	0.23	0.11	0.05	0.03	0.54 CMS
MAX	0.50	0.65	0.76	0.98	1.64	14.10	4.52	0.87	0.76	0.15	0.08	0.04	14.10 CMS
MIN	0.00	0.04	0.02	0.08	0.09	0.30	0.60	0.25	0.15	0.06	0.03	0.00	0.00 CMS
RUNOFF	0.289	0.372	0.492	0.499	1.153	8.061	3.786	1.229	0.614	0.299	0.114	0.068	16.978 MCM

MOMENTARY PEAK 33.15 CMS, AT 1.45 M (A.D), AT 5.00 HOURS, ON SEP 9, 1982
RUNOFF YIELD 8.04 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 494.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SALAWIN RIVER BASIN

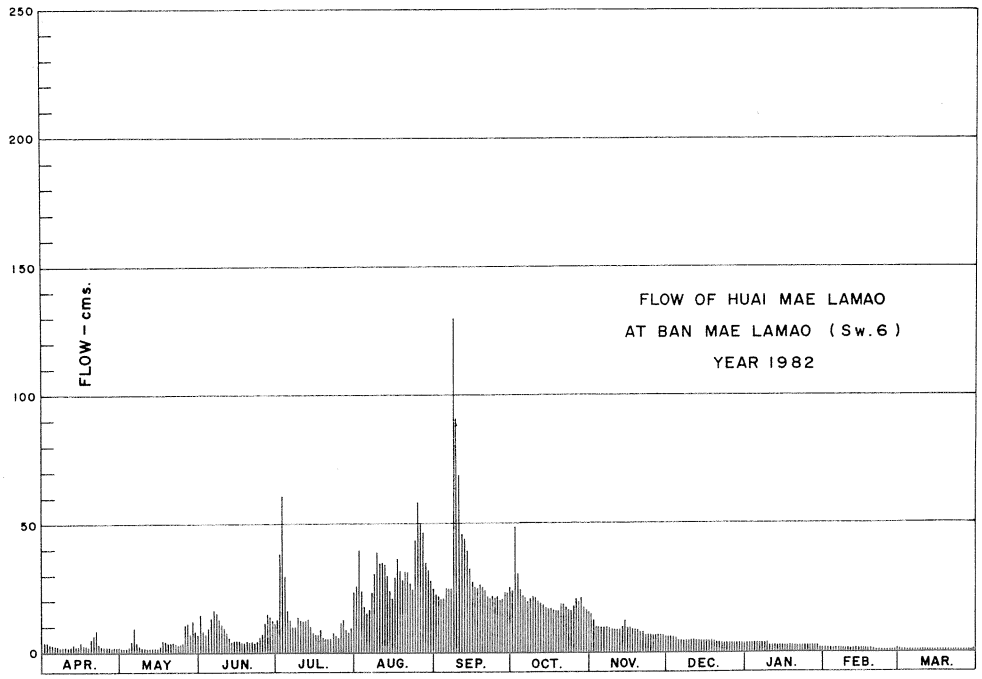
HUAI MAE LAMAO AT BAN MAE LAMAO, TAK (SW.6)

LOCATION	LAT. 16°-45′- 44″ N., LONG. 98°-45′-14″ E., ON LEFT BANK DOWNSTREAM FROM THE BRIDGE ON HIGHWAY, AT BAN MAE LAMAO, AMPHOE MAE SOT, TAK.
DRAINAGE AREA	1,038 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 6.25 METERS FROM AUTOMATIC GAGE BUILDING.
ELEVATION	+10.386 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SCOURING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 118 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.59	1.16	1.07	1.53	1.41	1.46	1.14	0.82	0.71	0.62	0.57	
2	0.70	0.58	0.91	1.63	1.88	1.39	2.11	1.01	0.82	0.71	0.61	0.56	
3	0.67	0.58	0.87	2.39	1.51	1.36	1.74	0.99	0.81	0.71	0.61	0.56	
4	0.67	0.58	1.03	1.68	1.28	1.34	1.51	0.98	0.80	0.71	0.60	0.56	
5	0.67	0.73	1.13	1.28	1.18	1.52	1.41	0.98	0.79	0.71	0.60	0.56	
6	0.67	0.98	1.23	1.09	1.22	1.49	1.35	0.97	0.79	0.70	0.60	0.56	
7	0.63	0.73	1.19	0.99	1.48	1.49	1.33	0.97	0.78	0.70	0.60	0.56	
8	0.62	0.65	1.10	0.97	1.67	3.70	1.35	0.96	0.78	0.70	0.60	0.56	
9	0.61	0.53	1.03	1.13	1.87	2.76	1.37	0.95	0.78	0.70	0.60	0.56	
10	0.61	0.51	1.02	1.08	1.75	2.39	1.37	0.95	0.78	0.69	0.60	0.56	
11	0.63	0.58	0.91	1.05	1.76	2.05	1.32	0.94	0.77	0.68	0.59	0.55	
12	0.67	0.59	0.80	1.06	1.75	2.03	1.28	0.94	0.76	0.68	0.59	0.55	
13	0.67	0.59	0.73	1.08	1.67	1.98	1.27	0.96	0.75	0.68	0.59	0.55	
14	0.63	0.59	0.77	0.98	1.48	1.73	1.25	1.08	0.75	0.68	0.59	0.55	
15	0.74	0.62	0.76	0.90	1.36	1.60	1.23	0.98	0.75	0.67	0.58	0.54	
16	0.69	0.60	0.76	0.86	1.63	1.53	1.25	0.96	0.75	0.66	0.58	0.53	
17	0.66	0.77	0.73	0.85	1.80	1.48	1.21	0.94	0.75	0.66	0.57	0.53	
18	0.63	0.70	0.74	0.93	1.71	1.55	1.20	0.95	0.75	0.66	0.57	0.53	
19	0.78	0.71	0.75	0.82	1.57	1.53	1.19	0.93	0.75	0.66	0.57	0.53	
20	0.81	0.71	0.74	0.82	1.68	1.47	1.29	0.90	0.74	0.66	0.56	0.53	
21	0.96	0.74	0.76	0.80	1.68	1.40	1.28	0.88	0.73	0.67	0.56	0.53	
22	0.66	0.73	0.74	0.80	1.57	1.36	1.24	0.87	0.73	0.68	0.56	0.52	
23	0.64	0.67	0.74	0.89	1.48	1.39	1.21	0.86	0.73	0.67	0.55	0.52	
24	0.61	0.65	0.80	0.84	1.97	1.36	1.19	0.86	0.73	0.65	0.55	0.52	
25	0.61	0.71	0.86	0.80	2.34	1.39	1.26	0.85	0.72	0.64	0.55	0.52	
26	0.61	1.02	1.06	1.03	2.17	1.36	1.34	0.85	0.72	0.64	0.55	0.52	
27	0.61	1.04	1.15	1.09	2.06	1.34	1.32	0.84	0.72	0.64	0.55	0.51	
28	0.60	0.87	1.15	0.95	1.78	1.45	1.37	0.84	0.72	0.64	0.55	0.51	
29	0.60	1.06	1.04	0.90	1.66	1.40	1.24	0.84	0.72	0.64		0.50	
30	0.59	0.96	1.01	0.97	1.58	1.51	1.20	0.83	0.71	0.63		0.50	
31		0.87		1.40	1.48		1.18		0.71	0.63		0.50	
MEAN	0.67	0.72	0.92	1.07	1.66	1.66	1.33	0.93	0.76	0.67	0.58	0.54	
MAX	0.96	1.06	1.23	2.39	2.34	3.70	2.11	1.14	0.82	0.71	0.62	0.57	3.70
MIN	0.59	0.51	0.73	0.80	1.18	1.34	1.18	0.83	0.71	0.63	0.55	0.50	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.68 M (A.D), AT 12.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.08 M (A.D)
LEFT BANK ELEVATION 15.00 M (A.D)
RIGHT BANK ELEVATION 10.39 M (A.D), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.25	1.80	16.80	14.10	28.05	24.30	25.80	16.20	7.40	5.65	4.30	3.61	
2	4.00	1.60	9.30	31.55	41.20	23.70	50.40	12.30	7.40	5.65	4.15	3.48	
3	3.40	1.60	8.25	62.50	27.35	22.80	35.60	11.70	7.20	5.65	4.15	3.48	
4	3.40	1.60	12.90	33.30	20.40	22.20	27.35	11.40	7.00	5.65	4.00	3.48	
5	3.40	4.75	15.90	20.40	17.40	27.70	24.30	11.40	6.85	5.65	4.00	3.48	
6	3.40	11.40	18.90	14.70	18.60	26.70	22.50	11.10	6.85	5.50	4.00	3.48	
7	2.60	4.75	17.70	11.70	26.40	26.70	21.90	11.10	6.70	5.50	4.00	3.48	
8	2.40	3.00	15.00	11.10	32.95	130.00	22.50	10.80	6.70	5.50	4.00	3.48	
9	2.20	0.60	12.90	15.90	40.80	81.00	23.10	10.50	6.70	5.50	4.00	3.48	
10	2.20	0.20	12.60	14.40	36.00	62.50	23.10	10.50	6.70	5.35	4.00	3.48	
11	2.60	1.60	9.30	13.50	36.40	48.00	21.60	10.20	6.55	5.20	3.87	3.35	
12	3.40	1.80	6.50	13.80	36.00	47.20	20.40	10.20	6.40	5.20	3.87	3.35	
13	3.40	1.80	4.75	14.40	32.95	45.20	20.10	10.80	6.25	5.20	3.87	3.35	
14	2.60	1.80	5.75	11.40	26.40	35.20	19.50	14.40	6.25	5.20	3.87	3.35	
15	5.00	2.40	5.50	9.00	22.80	30.50	18.90	11.40	6.25	5.05	3.74	3.22	
16	3.80	2.00	5.50	8.20	31.55	28.05	19.50	10.80	6.25	4.90	3.74	3.09	
17	3.20	5.75	4.75	8.00	38.00	26.40	18.30	10.20	6.25	4.90	3.61	3.09	
18	2.60	4.00	5.00	9.90	34.40	28.75	18.00	10.50	6.25	4.90	3.61	3.09	
19	6.00	4.25	5.25	7.40	29.45	28.05	17.70	9.90	6.25	4.90	3.61	3.09	
20	6.75	4.25	5.00	7.40	33.30	26.10	20.70	9.00	6.10	4.90	3.48	3.09	
21	10.80	5.00	5.50	7.00	33.30	24.00	20.40	8.60	5.95	5.05	3.48	3.09	
22	3.20	4.75	5.00	7.00	29.45	22.80	19.20	8.40	5.95	5.20	3.48	2.96	
23	2.80	3.40	5.00	8.80	26.40	23.70	18.30	8.20	5.95	5.05	3.35	2.96	
24	2.20	3.00	6.50	7.80	44.80	22.80	17.70	8.20	5.95	4.75	3.35	2.96	
25	2.20	4.25	8.00	7.00	60.00	23.70	19.80	8.00	5.80	4.60	3.35	2.96	
26	2.20	12.60	13.80	12.90	52.80	22.80	22.20	8.00	5.80	4.60	3.35	2.96	
27	2.20	13.20	16.50	14.70	48.40	22.20	21.60	7.80	5.80	4.60	3.35	2.83	
28	2.00	8.25	16.50	10.50	37.20	25.50	23.10	7.80	5.80	4.60	3.35	2.83	
29	2.00	13.80	13.20	9.00	32.60	24.00	19.20	7.80	5.80	4.60		2.70	
30	1.80	10.80	12.30	11.10	29.80	27.35	18.00	7.60	5.65	4.45		2.70	
31		8.25		24.00	26.40		17.40		5.65	4.45		2.70	
TOTAL	102.00	148.25	299.85	452.45	1031.55	1029.90	688.15	304.80	196.40	157.90	104.93	98.65	4614.83 CMSDAY
MEAN	3.40	4.78	10.00	14.60	33.28	34.33	22.20	10.16	6.34	5.09	3.75	3.18	12.64 CMS
MAX	10.80	13.80	18.90	62.50	60.00	130.00	50.40	16.20	7.40	5.65	4.30	3.61	130.00 CMS
MIN	1.80	0.20	4.75	7.00	17.40	22.20	17.40	7.60	5.65	4.45	3.35	2.70	0.20 CMS
RUNOFF	8.813	12.809	25.907	39.092	89.126	88.983	59.456	26.335	16.969	13.643	9.066	8.523	398.721 MCM

MOMENTARY PEAK 189.25 CMS, AT 4.68 M (A.D), AT 12.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 12.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 182.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

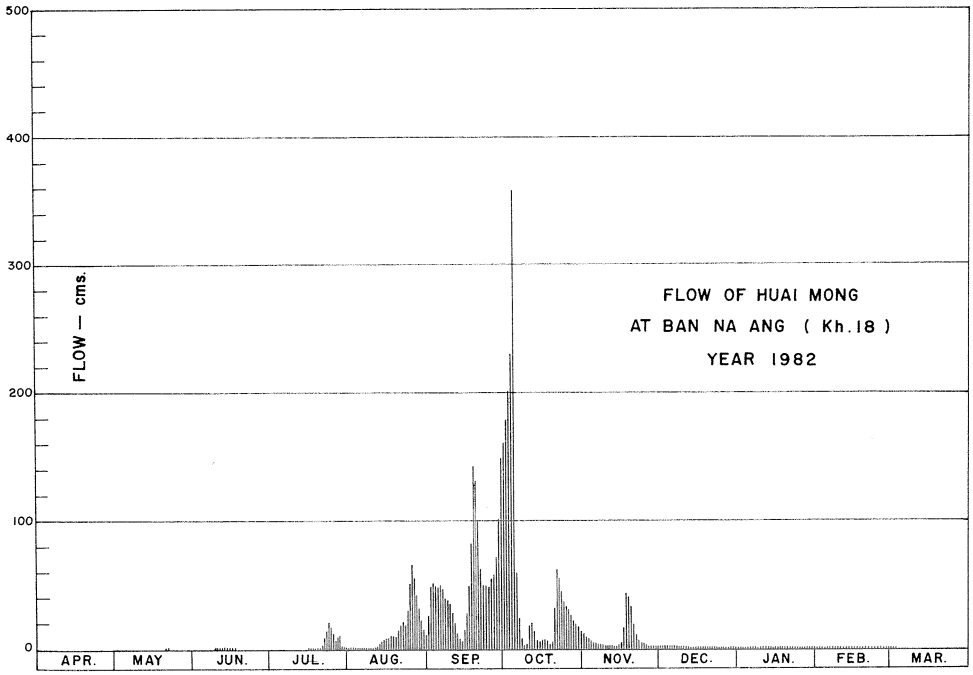
HUAI MONG AT BAN NA ANG, UDON THANI (KH.18)

LOCATION	LAT. 17°-34'-39" N., LONG. 102°-20'-19" E., ON RIGHT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE OF HUAI NAM BAN AND HUAI PAK KONG, AMPHOE BAN PHU, UDON THANI.
DRAINAGE AREA	1,307 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+8.826 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1957 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1957-1959, 1965-1966, 1974 - 1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1957-1959, 1965-1966, 1974 - 1980.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +7.44 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 332 DISCHARGE MEASUREMENTS MADE DURING 1975-1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.62	0.69	0.68	1.13	4.23	7.48	2.98	1.37	0.93	0.91	0.75	
2	0.63	0.62	0.74	0.64	1.08	5.73	7.55	2.82	1.42	0.95	0.92	0.76	
3	0.64	0.61	0.76	0.63	1.01	5.87	7.70	2.62	1.37	0.97	0.90	0.75	
4	0.65	0.64	0.75	0.64	0.90	5.73	8.00	2.37	1.32	0.96	0.89	0.72	
5	0.63	0.67	0.70	0.65	0.84	5.72	7.54	2.19	1.30	0.98	0.88	0.71	
6	0.64	0.66	0.70	0.63	0.85	5.83	6.20	2.08	1.28	1.06	0.88	0.70	
7	0.64	0.67	0.76	0.62	0.88	5.64	4.28	2.02	1.24	1.11	0.92	0.69	
8	0.64	0.64	0.70	0.61	0.87	5.10	2.49	1.92	1.24	1.13	0.97	0.68	
9	0.66	0.61	0.68	0.62	0.82	5.16	1.49	1.84	1.22	1.16	0.96	0.68	
10	0.64	0.65	1.24	0.60	0.83	4.70	2.09	1.83	1.19	1.17	0.96	0.68	
11	0.65	0.63	1.48	0.56	0.85	4.28	3.72	1.77	1.19	1.15	0.96	0.68	
12	0.64	0.62	1.43	0.67	1.28	3.57	3.85	1.68	1.14	1.10	0.96	0.68	
13	0.63	0.62	1.23	0.73	1.99	2.78	3.11	1.65	1.12	1.07	0.96	0.67	
14	0.63	0.64	1.09	0.74	2.33	2.21	2.35	1.62	1.09	1.04	0.96	0.67	
15	0.63	0.65	1.04	0.73	2.50	2.46	2.18	1.78	1.08	1.01	0.96	0.68	
16	0.63	0.64	0.83	0.78	2.54	3.95	2.49	2.07	1.06	1.03	0.93	0.68	
17	0.67	0.62	0.77	1.02	2.67	5.68	2.48	3.65	1.05	1.01	0.90	0.68	
18	0.65	0.61	0.71	1.02	2.89	6.79	2.32	5.56	1.05	0.96	0.87	0.68	
19	0.68	0.60	0.68	1.05	2.79	7.37	2.03	5.26	1.03	0.92	0.83	0.68	
20	0.71	0.63	0.65	0.92	2.93	7.25	2.31	4.41	0.99	0.90	0.80	0.68	
21	0.76	0.89	0.73	1.20	3.57	6.75	5.04	3.44	0.97	0.92	0.78	0.68	
22	0.72	0.81	0.69	2.29	3.73	5.97	6.24	2.80	0.98	0.90	0.77	0.68	
23	0.69	0.73	0.62	3.19	3.68	5.71	5.84	2.37	0.95	0.89	0.76	0.68	
24	0.66	0.65	0.66	3.78	4.52	5.83	5.20	2.13	0.94	0.93	0.76	0.68	
25	0.64	0.63	0.61	3.43	5.78	5.74	4.80	1.92	0.96	0.97	0.76	0.68	
26	0.63	0.65	0.60	2.75	6.31	6.07	4.66	1.76	0.95	0.98	0.76	0.68	
27	0.60	0.67	0.62	2.40	5.85	6.30	4.28	1.61	0.95	0.92	0.76	0.68	
28	0.60	0.61	0.58	2.71	5.12	6.51	3.95	1.54	0.95	0.89	0.76	0.67	
29	0.62	0.65	0.58	1.60	4.37	7.22	3.74	1.44	0.97	0.88		0.67	
30	0.62	0.63	0.65	1.27	3.60	7.40	3.54	1.37	0.94	0.96		0.68	
31		0.62		1.21	2.94		3.25		0.94	0.94		0.68	
MEAN	0.65	0.65	0.80	1.30	2.63	5.45	4.26	2.42	1.10	0.99	0.87	0.69	
MAX	0.76	0.89	1.48	3.78	6.31	7.40	8.00	5.56	1.42	1.17	0.97	0.76	8.00
MIN	0.60	0.60	0.58	0.56	0.82	2.21	1.49	1.37	0.94	0.88	0.76	0.67	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.06 M (A.D), AT 10.00 HOURS, ON OCT 4, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.22 M (A.D)
LEFT BANK ELEVATION 7.44 M (A.D)
RIGHT BANK ELEVATION 7.57 M (A.D), DRAINAGE AREA 1307 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.76	25.46	165.60	11.24	1.24	0.36	0.32	0.05	
2	0.00	0.00	0.04	0.00	0.66	48.39	183.50	9.96	1.34	0.40	0.34	0.06	
3	0.00	0.00	0.06	0.00	0.52	51.61	228.00	8.36	1.24	0.44	0.30	0.05	
4	0.00	0.00	0.05	0.00	0.30	48.39	357.00	6.36	1.14	0.42	0.28	0.02	
5	0.00	0.00	0.00	0.00	0.18	48.16	180.80	4.92	1.10	0.46	0.26	0.01	
6	0.00	0.00	0.00	0.00	0.20	50.69	60.40	4.06	1.06	0.62	0.26	0.00	
7	0.00	0.00	0.06	0.00	0.26	46.38	26.06	3.64	0.98	0.72	0.34	0.00	
8	0.00	0.00	0.00	0.00	0.24	37.50	7.32	3.10	0.98	0.76	0.44	0.00	
9	0.00	0.00	0.00	0.00	0.14	38.34	1.48	2.76	0.94	0.82	0.42	0.00	
10	0.00	0.00	0.98	0.00	0.16	31.90	4.13	2.72	0.88	0.84	0.42	0.00	
11	0.00	0.00	1.46	0.00	0.20	26.06	19.34	2.48	0.88	0.80	0.42	0.00	
12	0.00	0.00	1.36	0.00	1.06	17.54	20.90	2.12	0.78	0.70	0.42	0.00	
13	0.00	0.00	0.96	0.03	3.45	9.64	12.31	2.00	0.74	0.64	0.42	0.00	
14	0.00	0.00	0.68	0.04	6.04	5.08	6.20	1.88	0.68	0.58	0.42	0.00	
15	0.00	0.00	0.58	0.03	7.40	7.08	4.84	2.52	0.66	0.52	0.42	0.00	
16	0.00	0.00	0.16	0.08	7.72	22.10	7.32	3.99	0.62	0.56	0.36	0.00	
17	0.00	0.00	0.07	0.54	8.76	47.26	7.24	18.50	0.60	0.52	0.30	0.00	
18	0.00	0.00	0.01	0.54	10.52	84.95	5.96	44.70	0.60	0.42	0.24	0.00	
19	0.00	0.00	0.00	0.60	9.72	142.60	3.71	39.74	0.56	0.34	0.16	0.00	
20	0.01	0.00	0.00	0.34	10.84	122.50	5.88	27.84	0.48	0.30	0.10	0.00	
21	0.06	0.28	0.03	0.90	17.54	82.75	36.66	15.98	0.44	0.34	0.08	0.00	
22	0.02	0.12	0.00	5.72	19.46	54.19	61.64	9.80	0.46	0.30	0.07	0.00	
23	0.00	0.03	0.00	13.19	18.86	47.93	50.92	6.36	0.40	0.28	0.06	0.00	
24	0.00	0.00	0.00	20.06	29.38	50.69	38.90	4.44	0.38	0.36	0.06	0.00	
25	0.00	0.00	0.00	15.86	49.54	48.62	33.30	3.10	0.42	0.44	0.06	0.00	
26	0.00	0.00	0.00	9.40	63.85	56.89	31.34	2.44	0.40	0.46	0.06	0.00	
27	0.00	0.00	0.00	6.60	51.15	63.50	26.06	1.84	0.40	0.34	0.06	0.00	
28	0.00	0.00	0.00	9.08	37.78	71.40	22.10	1.62	0.40	0.28	0.06	0.00	
29	0.00	0.00	0.00	1.80	27.28	118.00	19.58	1.38	0.44	0.26		0.00	
30	0.00	0.00	0.00	1.04	17.90	148.00	17.18	1.24	0.38	0.42		0.00	
31		0.00		0.92	10.92		13.85		0.38	0.38		0.00	
TOTAL	0.09	0.43	6.50	86.77	412.79	1653.60	1659.52	251.09	22.00	15.08	7.15	0.19	4115.21 CMSDAY
MEAN	0.00	0.01	0.22	2.80	13.32	55.12	53.53	8.37	0.71	0.49	0.26	0.01	11.27 CMS
MAX	0.06	0.28	1.46	20.06	63.85	148.00	357.00	44.70	1.34	0.84	0.44	0.06	357.00 CMS
MIN	0.00	0.00	0.00	0.00	0.14	5.08	1.48	1.24	0.38	0.26	0.06	0.00	0.00 CMS
RUNOFF	0.008	0.037	0.562	7.497	35.665	142.871	143.383	21.694	1.901	1.303	0.618	0.016	355.554 MCM

MOMENTARY PEAK 391.80 CMS, AT 8.06 M (A.D), AT 10.00 HOURS, ON OCT 4, 1982

RUNOFF YIELD 8.63 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 299.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

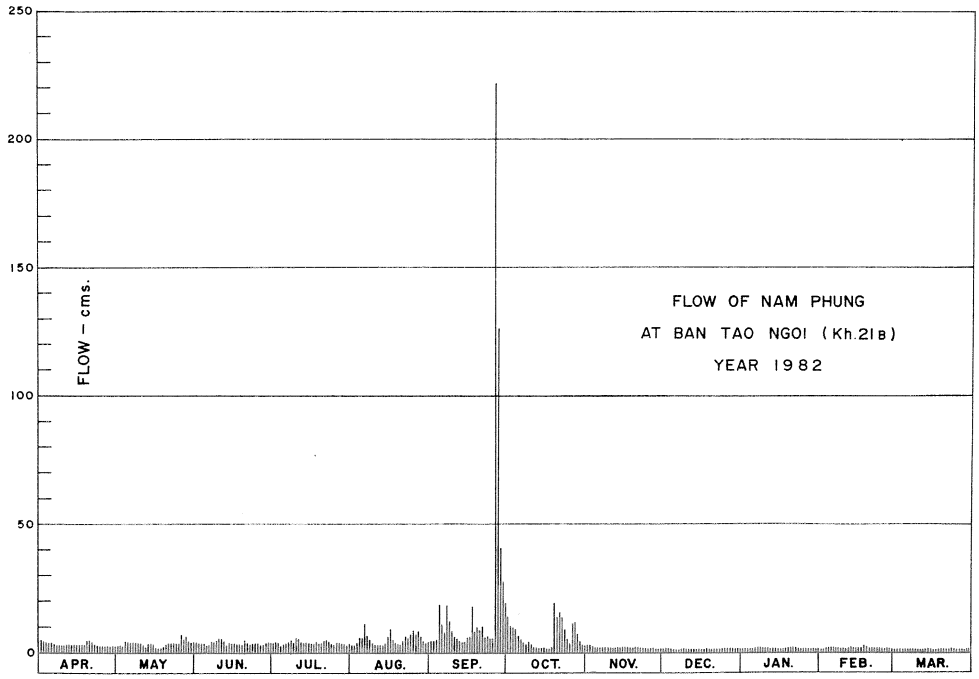
NAM PHUNG AT BAN TAO NGOI, SAKON NAKHON (KH.21B)

LOCATION	LAT. 16°-59'-39" N., LONG. 104°-10'-39" E., ON LEFT BANK ABOUT 2.7 KILOMETERS DOWNSTREAM FROM KH.21A, BAN TAO NGOI, AMPHOE MUANG, SAKON NAKHON.
DRAINAGE AREA	641 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+170.60 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENTS OF THE BRIDGE.
ELEVATION	+172.470 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	171.39	171.31	171.35	171.36	171.33	171.38	171.69	171.33	171.21	171.21	171.19	171.19	
2	171.38	171.31	171.35	171.37	171.32	171.38	171.59	171.33	171.22	171.21	171.20	171.19	
3	171.37	171.32	171.35	171.36	171.34	171.41	171.60	171.28	171.21	171.20	171.22	171.20	
4	171.34	171.37	171.34	171.27	171.43	171.83	171.56	171.27	171.17	171.21	171.22	171.19	
5	171.35	171.37	171.32	171.33	171.46	171.65	171.46	171.27	171.16	171.21	171.23	171.21	
6	171.36	171.36	171.31	171.34	171.64	171.52	171.38	171.25	171.15	171.22	171.23	171.20	
7	171.31	171.35	171.38	171.35	171.45	171.82	171.34	171.24	171.19	171.22	171.22	171.20	
8	171.32	171.35	171.37	171.39	171.38	171.68	171.32	171.24	171.19	171.22	171.22	171.20	
9	171.33	171.35	171.39	171.34	171.34	171.52	171.34	171.24	171.20	171.22	171.21	171.20	
10	171.32	171.35	171.45	171.46	171.32	171.45	171.30	171.23	171.19	171.22	171.22	171.20	
11	171.32	171.33	171.47	171.43	171.32	171.41	171.27	171.23	171.18	171.21	171.22	171.19	
12	171.31	171.26	171.38	171.37	171.33	171.37	171.25	171.23	171.17	171.20	171.23	171.20	
13	171.30	171.31	171.30	171.36	171.32	171.35	171.23	171.23	171.17	171.21	171.27	171.22	
14	171.31	171.34	171.36	171.34	171.33	171.36	171.23	171.22	171.17	171.21	171.23	171.21	
15	171.32	171.34	171.35	171.34	171.45	171.45	171.23	171.23	171.17	171.20	171.23	171.20	
16	171.32	171.22	171.35	171.34	171.58	171.47	171.22	171.24	171.14	171.21	171.24	171.20	
17	171.33	171.24	171.34	171.34	171.39	171.80	171.21	171.24	171.16	171.21	171.23	171.20	
18	171.32	171.23	171.34	171.37	171.35	171.54	171.21	171.22	171.18	171.20	171.29	171.21	
19	171.40	171.23	171.34	171.34	171.32	171.59	171.83	171.21	171.19	171.21	171.23	171.21	
20	171.39	171.33	171.40	171.35	171.31	171.53	171.71	171.22	171.18	171.21	171.23	171.21	
21	171.35	171.36	171.36	171.41	171.41	171.61	171.75	171.23	171.19	171.21	171.23	171.21	
22	171.33	171.36	171.35	171.41	171.46	171.46	171.71	171.22	171.18	171.22	171.23	171.21	
23	171.32	171.35	171.35	171.38	171.42	171.47	171.53	171.21	171.18	171.22	171.21	171.22	
24	171.32	171.34	171.34	171.34	171.55	171.42	171.38	171.21	171.18	171.20	171.21	171.21	
25	171.32	171.34	171.35	171.33	171.57	171.43	171.35	171.21	171.20	171.20	171.21	171.20	
26	171.32	171.50	171.33	171.36	171.49	174.31	171.66	171.21	171.21	171.20	171.21	171.21	
27	171.32	171.40	171.33	171.36	171.55	173.43	171.66	171.22	171.20	171.20	171.22	171.20	
28	171.32	171.46	171.34	171.34	171.42	172.24	171.48	171.21	171.20	171.20	171.21	171.19	
29	171.33	171.37	171.36	171.33	171.38	172.05	171.40	171.21	171.20	171.20		171.21	
30	171.32	171.35	171.36	171.32	171.36	171.84	171.33	171.22	171.20	171.20		171.20	
31		171.36		171.34	171.38		171.33		171.21	171.19		171.18	
MEAN	171.33	171.34	171.36	171.36	171.41	171.73	171.44	171.24	171.19	171.21	171.22	171.20	
MAX	171.40	171.50	171.47	171.46	171.64	174.31	171.83	171.33	171.22	171.22	171.29	171.22	174.31
MIN	171.30	171.22	171.30	171.27	171.31	171.35	171.21	171.21	171.14	171.19	171.19	171.18	171.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 175.85 M (MSL), AT 14.00 HOURS, ON SEP 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 170.60 M (MSL), RIVER BED 170.56 M (MSL)
LEFT BANK ELEVATION 179.68 M (MSL)
RIGHT BANK ELEVATION 179.89 M (MSL), DRAINAGE AREA 641 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.27	2.43	3.35	3.58	2.89	4.04	12.83	2.89	1.12	1.12	0.95	0.95	
2	4.04	2.43	3.35	3.81	2.66	4.04	9.20	2.89	1.24	1.12	1.00	0.95	
3	3.81	2.66	3.35	3.58	3.12	4.70	9.50	1.96	1.12	1.00	1.24	1.00	
4	3.12	3.81	3.12	1.84	5.10	18.79	8.30	1.84	0.85	1.12	1.24	0.95	
5	3.35	3.81	2.66	2.89	5.70	11.35	5.70	1.84	0.80	1.12	1.36	1.12	
6	3.58	3.58	2.43	3.12	10.98	7.10	4.04	1.60	0.75	1.24	1.36	1.00	
7	2.43	3.35	4.04	3.35	5.50	18.36	3.12	1.48	0.95	1.24	1.24	1.00	
8	2.66	3.35	3.81	4.27	4.04	12.46	2.66	1.48	0.95	1.24	1.24	1.00	
9	2.89	3.35	4.27	3.12	3.12	7.10	3.12	1.48	1.00	1.24	1.12	1.00	
10	2.66	3.35	5.50	5.70	2.66	5.50	2.20	1.36	0.95	1.24	1.24	1.00	
11	2.66	2.89	5.90	5.10	2.66	4.70	1.84	1.36	0.90	1.12	1.24	0.95	
12	2.43	1.72	4.04	3.81	2.89	3.81	1.60	1.36	0.85	1.00	1.36	1.00	
13	2.20	2.43	2.20	3.58	2.66	3.35	1.36	1.36	0.85	1.12	1.84	1.24	
14	2.43	3.12	3.58	3.12	2.89	3.58	1.36	1.24	0.85	1.12	1.36	1.12	
15	2.66	3.12	3.35	3.12	5.50	5.50	1.36	1.36	0.85	1.00	1.36	1.00	
16	2.66	1.24	3.35	3.12	8.90	5.90	1.24	1.48	0.70	1.12	1.48	1.00	
17	2.89	1.48	3.12	3.12	4.27	17.50	1.12	1.48	0.80	1.12	1.36	1.00	
18	2.66	1.36	3.12	3.81	3.35	7.70	1.12	1.24	0.90	1.00	2.08	1.12	
19	4.50	1.36	3.12	3.12	2.66	9.20	18.79	1.12	0.95	1.12	1.36	1.12	
20	4.27	2.89	4.50	3.35	2.43	7.40	13.63	1.24	0.90	1.12	1.36	1.12	
21	3.35	3.58	3.58	4.70	4.70	9.87	15.35	1.36	0.95	1.12	1.36	1.12	
22	2.89	3.58	3.35	4.70	5.70	5.70	13.63	1.24	0.90	1.24	1.36	1.12	
23	2.66	3.35	3.35	4.04	4.90	5.90	7.40	1.12	0.90	1.24	1.12	1.24	
24	2.66	3.12	3.12	3.12	8.00	4.90	4.04	1.12	0.90	1.00	1.12	1.12	
25	2.66	3.12	3.35	2.89	8.60	5.10	3.35	1.12	1.00	1.00	1.12	1.00	
26	2.66	6.50	2.89	3.58	6.30	221.20	11.72	1.12	1.12	1.00	1.12	1.12	
27	2.66	4.50	2.89	3.58	8.00	130.35	11.72	1.24	1.00	1.00	1.24	1.00	
28	2.66	5.70	3.12	3.12	4.90	39.40	6.10	1.12	1.00	1.00	1.12	0.95	
29	2.89	3.81	3.58	2.89	4.04	29.00	4.50	1.12	1.00	1.00		1.12	
30	2.66	3.35	3.58	2.66	3.58	19.22	2.89	1.24	1.00	1.00		1.00	
31		3.58		3.12	4.04		2.89		1.12	0.95		0.90	
TOTAL	89.92	97.92	104.97	108.91	146.74	632.72	187.68	43.86	29.17	34.07	36.35	32.33	1544.64 CMSDAY
MEAN	3.00	3.16	3.50	3.51	4.73	21.09	6.05	1.46	0.94	1.10	1.30	1.04	4.23 CMS
MAX	4.50	6.50	5.90	5.70	10.98	221.20	18.79	2.89	1.24	1.24	2.08	1.24	221.20 CMS
MIN	2.20	1.24	2.20	1.84	2.43	3.35	1.12	1.12	0.70	0.95	0.95	0.90	0.70 CMS
RUNOFF	7.769	8.460	9.069	9.410	12.678	54.667	16.216	3.790	2.520	2.944	3.141	2.793	133.457 MCM

MOMENTARY PEAK 435.50 CMS, AT 175.85 M (MSL), AT 14.00 HOURS, ON SEP 26, 1982

RUNOFF YIELD 6.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 679.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

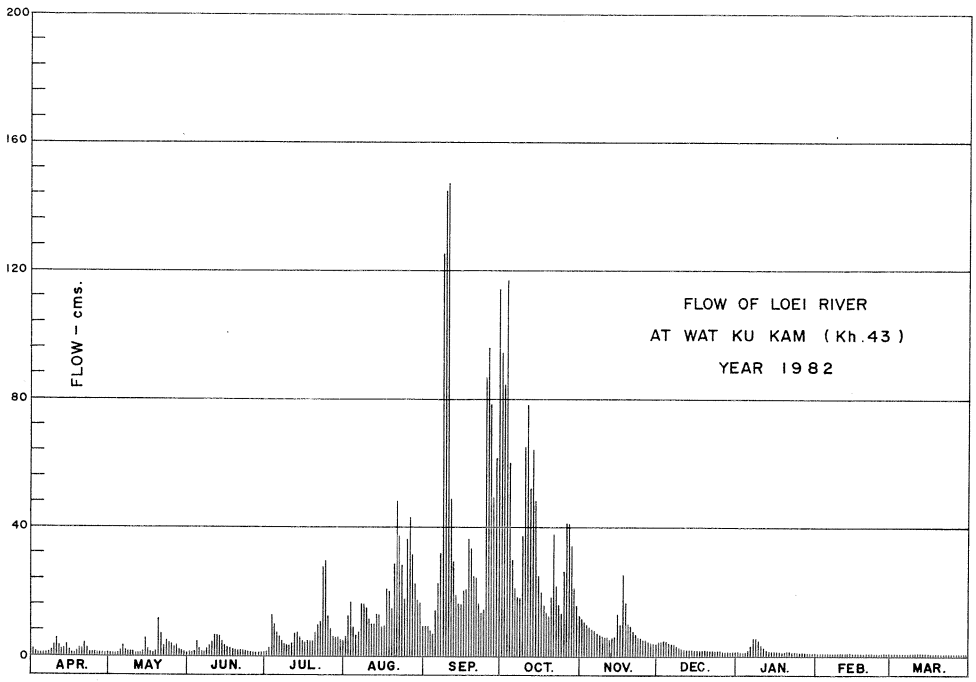
LOEI RIVER BASIN AT WAT KU KAM, LOEI (KH.43)

LOCATION	LAT. 17°-14'-15" N., LONG. 101°-41'-31" E., ON LEFT BANK DOWNSTREAM FROM WAT KU KAM AT BAN SAI KHAO, AMPHOE WANG SAPHUNG, LOEI.
DRAINAGE AREA	991 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+10.667 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 - 1973, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 - 1973, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 89 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.57	0.68	0.66	1.01	1.11	2.62	1.20	0.87	0.68	0.64	0.56	
2	0.64	0.56	0.68	0.72	1.21	1.11	2.53	1.16	0.90	0.68	0.63	0.56	
3	0.60	0.56	0.66	1.24	1.35	1.04	2.91	1.12	0.91	0.68	0.63	0.56	
4	0.62	0.55	0.88	1.17	1.12	1.00	2.17	1.09	0.89	0.68	0.63	0.56	
5	0.61	0.66	0.77	1.04	1.00	1.25	1.72	1.07	0.87	0.70	0.62	0.56	
6	0.61	0.83	0.70	1.00	1.05	1.51	1.51	1.05	0.84	0.82	0.62	0.59	
7	0.61	0.72	0.70	0.91	1.33	1.69	1.41	1.03	0.82	0.97	0.62	0.57	
8	0.68	0.69	0.76	0.86	1.33	2.93	1.37	1.00	0.80	0.94	0.61	0.56	
9	0.86	0.69	0.79	0.82	1.28	3.19	1.74	0.98	0.79	0.89	0.61	0.56	
10	0.95	0.70	0.88	0.78	1.19	3.21	2.27	0.97	0.78	0.82	0.61	0.56	
11	0.80	0.62	1.02	0.84	1.12	2.12	2.45	0.96	0.77	0.77	0.60	0.55	
12	0.72	0.59	0.97	1.02	1.16	1.69	2.06	0.94	0.76	0.75	0.60	0.55	
13	0.74	0.59	0.97	1.04	1.25	1.47	2.26	0.93	0.75	0.73	0.60	0.57	
14	0.85	1.04	0.85	0.97	1.23	1.34	1.94	0.96	0.74	0.72	0.60	0.56	
15	0.74	0.93	0.81	0.90	1.10	1.30	1.56	1.23	0.74	0.71	0.60	0.55	
16	0.67	0.74	0.78	0.87	1.11	1.46	1.46	1.11	0.73	0.70	0.59	0.55	
17	0.64	0.66	0.75	0.90	1.45	1.49	1.33	1.55	0.73	0.69	0.59	0.54	
18	0.66	0.63	0.74	0.89	1.43	1.76	1.27	1.38	0.72	0.69	0.59	0.54	
19	0.78	0.68	0.73	0.90	1.28	1.72	1.21	1.17	0.72	0.68	0.59	0.54	
20	0.76	1.19	0.71	0.97	1.70	1.56	1.39	1.10	0.71	0.68	0.59	0.56	
21	0.86	1.00	0.69	1.11	1.99	1.54	1.82	1.04	0.71	0.67	0.58	0.55	
22	0.77	0.81	0.68	1.15	1.74	1.33	1.48	1.00	0.71	0.67	0.58	0.55	
23	0.67	0.90	0.67	1.60	1.62	1.26	1.35	0.97	0.70	0.66	0.58	0.54	
24	0.64	0.87	0.66	1.67	1.38	1.29	1.26	0.94	0.70	0.66	0.58	0.54	
25	0.61	0.84	0.65	1.25	1.78	2.57	1.51	0.92	0.70	0.65	0.58	0.53	
26	0.59	0.78	0.64	1.09	1.91	2.66	1.88	0.90	0.69	0.65	0.57	0.53	
27	0.59	0.82	0.63	0.98	1.66	2.32	1.88	0.88	0.69	0.65	0.57	0.53	
28	0.58	0.73	0.64	0.95	1.49	2.02	1.75	0.86	0.69	0.65	0.57	0.53	
29	0.59	0.68	0.64	0.96	1.33	2.19	1.47	0.85	0.68	0.64		0.52	
30	0.58	0.66	0.64	0.90	1.21	2.87	1.35	0.85	0.68	0.64		0.52	
31		0.65		0.90	1.11		1.26		0.68	0.64		0.52	
MEAN	0.69	0.74	0.75	1.00	1.35	1.80	1.75	1.04	0.76	0.71	0.60	0.55	
MAX	0.95	1.19	1.02	1.67	1.99	3.21	2.91	1.55	0.91	0.97	0.64	0.59	3.21
MIN	0.58	0.55	0.63	0.66	1.00	1.00	1.21	0.85	0.68	0.64	0.57	0.52	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.69 M (A.D), AT 21.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.47 M (A.D)
LEFT BANK ELEVATION 9.76 M (A.D)
RIGHT BANK ELEVATION 10.29 M (A.D), DRAINAGE AREA 991 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.65	0.34	1.00	0.85	6.72	9.02	92.20	11.90	3.99	1.00	0.70	0.32	
2	0.70	0.32	1.00	1.48	12.22	9.02	84.90	10.62	4.50	1.00	0.62	0.32	
3	0.40	0.32	0.85	13.18	16.80	7.38	117.95	9.34	4.70	1.00	0.62	0.32	
4	0.55	0.30	4.16	10.94	9.34	6.50	59.05	8.48	4.33	1.00	0.62	0.32	
5	0.47	0.85	2.30	7.38	6.50	13.50	33.00	8.04	3.99	1.15	0.55	0.32	
6	0.47	3.31	1.15	6.50	7.60	23.45	23.45	7.60	3.48	3.14	0.55	0.38	
7	0.47	1.48	1.15	4.70	16.12	31.55	18.95	7.16	3.14	5.90	0.55	0.34	
8	1.00	1.08	2.14	3.82	16.12	119.85	17.48	6.50	2.80	5.30	0.47	0.32	
9	3.82	1.08	2.64	3.14	14.46	144.55	34.00	6.10	2.64	4.33	0.47	0.32	
10	5.50	1.15	4.16	2.47	11.58	146.50	65.90	5.90	2.47	3.14	0.47	0.32	
11	2.80	0.55	6.94	3.48	9.34	55.80	78.75	5.70	2.30	2.30	0.40	0.30	
12	1.48	0.38	5.90	6.94	10.62	31.55	52.10	5.30	2.14	1.98	0.40	0.30	
13	1.81	0.38	5.90	7.38	13.50	21.65	65.20	5.10	1.98	1.65	0.40	0.34	
14	3.65	7.38	3.65	5.90	12.86	16.46	44.90	5.70	1.81	1.48	0.40	0.32	
15	1.81	5.10	2.97	4.50	8.70	15.10	25.70	12.86	1.81	1.31	0.40	0.30	
16	0.93	1.81	2.47	3.99	9.02	21.20	21.20	9.02	1.65	1.15	0.38	0.30	
17	0.70	0.85	1.98	4.50	20.75	22.55	16.12	25.25	1.65	1.08	0.38	0.28	
18	0.85	0.62	1.81	4.33	19.85	35.00	14.14	17.82	1.48	1.08	0.38	0.28	
19	2.47	1.00	1.65	4.50	14.46	33.00	12.22	10.94	1.48	1.00	0.38	0.28	
20	2.14	11.58	1.31	5.90	32.00	25.70	18.16	8.70	1.31	1.00	0.38	0.32	
21	3.82	6.50	1.08	9.02	47.90	24.80	38.10	7.38	1.31	0.93	0.36	0.30	
22	2.30	2.97	1.00	10.30	34.00	16.12	22.10	6.50	1.31	0.93	0.36	0.30	
23	0.93	4.50	0.93	27.50	28.40	13.82	16.80	5.90	1.15	0.85	0.36	0.28	
24	0.70	3.99	0.85	30.65	17.82	14.78	13.82	5.30	1.15	0.85	0.36	0.28	
25	0.47	3.48	0.77	13.50	36.00	88.10	23.45	4.90	1.15	0.77	0.36	0.26	
26	0.38	2.47	0.70	8.48	43.10	95.60	41.40	4.50	1.08	0.77	0.34	0.26	
27	0.38	3.14	0.62	6.10	30.20	69.40	41.40	4.16	1.08	0.77	0.34	0.26	
28	0.36	1.65	0.70	5.50	22.55	49.70	34.50	3.82	1.08	0.77	0.34	0.26	
29	0.38	1.00	0.70	5.70	16.12	60.35	21.65	3.65	1.00	0.70		0.24	
30	0.36	0.85	0.70	4.50	12.22	114.30	16.80	3.65	1.00	0.70		0.24	
31		0.77		4.50	9.02		13.82		1.00	0.70		0.24	
TOTAL	43.75	71.20	63.18	231.63	565.89	1336.30	1179.21	237.79	65.96	49.73	12.34	9.22	3866.20 CMSDAY
MEAN	1.46	2.30	2.11	7.47	18.25	44.54	38.04	7.93	2.13	1.60	0.44	0.30	10.59 CMS
MAX	5.50	11.58	6.94	30.65	47.90	146.50	117.95	25.25	4.70	5.90	0.70	0.38	146.50 CMS
MIN	0.36	0.30	0.62	0.85	6.50	6.50	12.22	3.65	1.00	0.70	0.34	0.24	0.24 CMS
RUNOFF	3.780	6.152	5.459	20.013	48.893	115.456	101.884	20.545	5.699	4.297	1.066	0.797	334.040 MCM

MOMENTARY PEAK 198.85 CMS, AT 3.69 M (A.D), AT 21.00 HOURS, ON SEP 9, 1982

RUNOFF YIELD 10.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 200.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

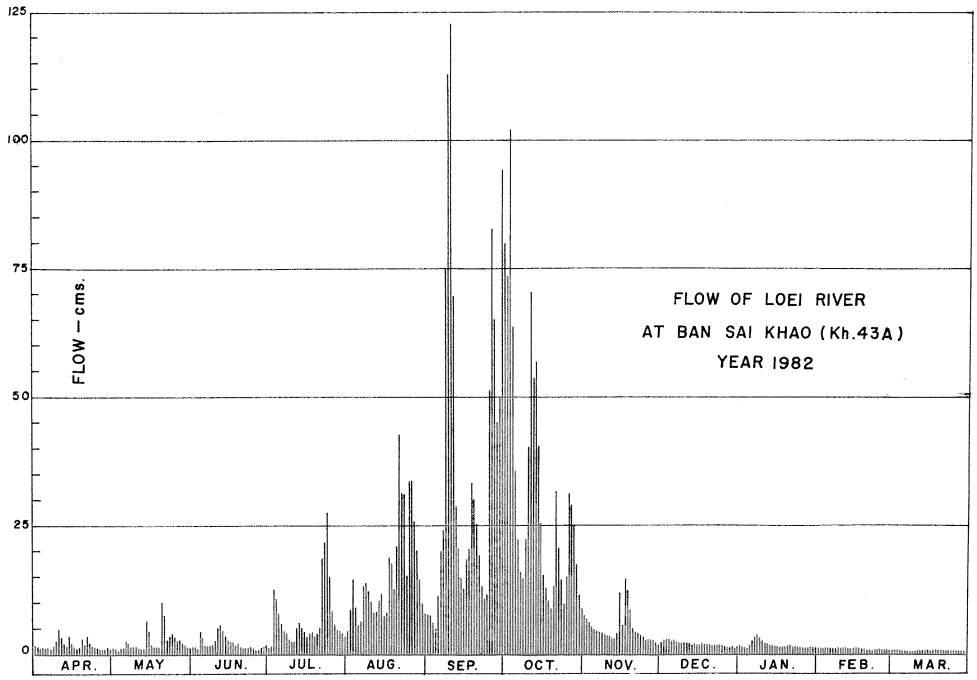
LOEI RIVER NEAR BAN SAI KHAO, LOEI (KH.43A)

LOCATION	LAT. 17°-13'-30" N., LONG. 101°-41'-26" E., ON RIGHT BANK ABOUT 3 KILOMETERS UPSTREAM FROM KH.43 STATION NEAR BAN SAI KHAO, AMPHOE WANG SAPHUNG, LOEI.
DRAINAGE AREA	790 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK UNDER TAMARIND TREE ALONG THE MEASURING LINE.
ELEVATION	+9.633 M.(A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 07.00, 12.00 AND 18.00HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 - 1973, 1981 - 1982.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 - 1973, 1981 - 1982.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 80 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.82	1.72	1.81	1.77	2.09	2.19	3.55	2.19	1.91	1.80	1.76	1.69	
2	1.76	1.71	1.80	1.85	2.30	2.18	3.53	2.15	1.93	1.80	1.76	1.69	
3	1.75	1.71	1.78	2.38	2.44	2.10	3.91	2.12	1.94	1.80	1.76	1.69	
4	1.76	1.70	2.06	2.28	2.21	2.06	3.21	2.08	1.93	1.80	1.76	1.69	
5	1.75	1.79	1.93	2.14	2.09	2.37	2.80	2.06	1.91	1.82	1.75	1.69	
6	1.75	1.92	1.82	2.11	2.15	2.62	2.60	2.05	1.89	1.92	1.75	1.70	
7	1.75	1.82	1.82	2.03	2.42	2.72	2.47	2.03	1.88	1.99	1.75	1.69	
8	1.85	1.81	1.85	1.97	2.40	3.90	2.44	2.01	1.88	1.97	1.74	1.68	
9	2.00	1.81	1.84	1.93	2.34	4.13	2.72	2.00	1.87	1.94	1.74	1.68	
10	2.08	1.83	1.93	1.89	2.28	4.17	3.11	1.99	1.87	1.90	1.74	1.68	
11	1.92	1.75	2.11	1.95	2.21	3.16	3.49	1.98	1.86	1.87	1.73	1.68	
12	1.84	1.72	2.10	2.14	2.23	2.77	3.23	1.97	1.86	1.85	1.73	1.68	
13	1.85	1.72	2.04	2.13	2.31	2.53	3.28	1.96	1.85	1.84	1.73	1.69	
14	1.99	2.15	1.96	2.07	2.34	2.42	2.99	2.03	1.85	1.83	1.72	1.68	
15	1.86	2.04	1.91	2.00	2.19	2.37	2.61	2.35	1.85	1.82	1.72	1.67	
16	1.79	1.86	1.88	1.96	2.22	2.56	2.46	2.11	1.84	1.81	1.72	1.67	
17	1.77	1.79	1.85	1.99	2.56	2.61	2.37	2.42	1.84	1.81	1.72	1.67	
18	1.78	1.75	1.83	1.99	2.53	2.87	2.29	2.34	1.84	1.80	1.72	1.67	
19	1.91	1.80	1.81	2.00	2.36	2.80	2.24	2.15	1.83	1.80	1.71	1.66	
20	1.88	2.31	1.79	2.08	2.72	2.62	2.50	2.08	1.83	1.79	1.71	1.66	
21	1.99	2.10	1.78	2.13	3.04	2.59	2.84	2.03	1.83	1.79	1.71	1.66	
22	1.89	1.90	1.77	2.60	2.83	2.36	2.52	2.00	1.82	1.78	1.71	1.65	
23	1.79	1.99	1.76	2.65	2.83	2.31	2.38	1.98	1.82	1.78	1.70	1.65	
24	1.78	2.00	1.75	2.75	2.45	2.36	2.29	1.96	1.82	1.78	1.70	1.65	
25	1.76	1.94	1.74	2.34	2.88	3.49	2.49	1.94	1.82	1.78	1.70	1.64	
26	1.75	1.90	1.73	2.18	2.88	3.67	2.83	1.93	1.81	1.78	1.70	1.64	
27	1.75	1.91	1.73	2.07	2.69	3.34	2.78	1.92	1.81	1.77	1.70	1.64	
28	1.74	1.84	1.74	2.04	2.56	3.08	2.67	1.91	1.81	1.77	1.70	1.63	
29	1.75	1.81	1.74	2.04	2.40	3.20	2.44	1.90	1.81	1.77		1.63	
30	1.74	1.80	1.74	1.99	2.27	3.81	2.33	1.89	1.80	1.77		1.63	
31		1.79		1.99	2.18		2.24		1.80	1.77		1.62	
MEAN	1.83	1.86	1.85	2.11	2.43	2.85	2.76	2.05	1.85	1.82	1.73	1.67	
MAX	2.08	2.31	2.11	2.75	3.04	4.17	3.91	2.42	1.94	1.99	1.76	1.70	4.17
MIN	1.74	1.70	1.73	1.77	2.09	2.06	2.24	1.89	1.80	1.77	1.70	1.62	1.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.57 M (A.D), AT 19.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.44 M (A.D)
LEFT BANK ELEVATION 11.40 M (A.D)
RIGHT BANK ELEVATION 8.36 M (A.D), DRAINAGE AREA 790 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	0.52	1.10	0.82	5.03	7.36	74.50	7.36	2.15	1.00	0.76	0.37	
2	0.76	0.46	1.00	1.50	10.20	7.12	73.10	6.40	2.45	1.00	0.76	0.37	
3	0.70	0.46	0.88	12.76	14.76	5.20	101.80	5.68	2.60	1.00	0.76	0.37	
4	0.76	0.40	4.52	9.68	7.86	4.52	52.60	4.86	2.45	1.00	0.76	0.37	
5	0.70	0.94	2.45	6.16	5.03	12.44	29.60	4.52	2.15	1.20	0.70	0.37	
6	0.70	2.30	1.20	5.44	6.40	21.24	20.40	4.35	1.90	2.30	0.70	0.40	
7	0.70	1.20	1.20	4.01	14.08	25.60	15.78	4.01	1.80	3.35	0.70	0.37	
8	1.50	1.10	1.50	3.05	13.40	101.00	14.76	3.67	1.80	3.05	0.64	0.34	
9	3.50	1.10	1.40	2.45	11.48	119.40	25.60	3.50	1.70	2.60	0.64	0.34	
10	4.86	1.30	2.45	1.90	9.68	122.60	46.60	3.35	1.70	2.00	0.64	0.34	
11	2.30	0.70	5.44	2.75	7.86	49.60	70.30	3.20	1.60	1.70	0.58	0.34	
12	1.40	0.52	5.20	6.16	8.38	28.10	53.80	3.05	1.60	1.50	0.58	0.34	
13	1.50	0.52	4.18	5.92	10.52	17.88	56.80	2.90	1.50	1.40	0.58	0.37	
14	3.35	6.40	2.90	4.69	11.48	14.08	39.48	4.01	1.50	1.30	0.52	0.34	
15	1.60	4.18	2.15	3.50	7.36	12.44	20.82	11.80	1.50	1.20	0.52	0.31	
16	0.94	1.60	1.80	2.90	8.12	18.96	15.44	5.44	1.40	1.10	0.52	0.31	
17	0.82	0.94	1.50	3.35	18.96	20.82	12.44	14.08	1.40	1.10	0.52	0.31	
18	0.88	0.70	1.30	3.35	17.88	33.24	9.94	11.48	1.40	1.00	0.52	0.31	
19	2.15	1.00	1.10	3.50	12.12	29.60	8.64	6.40	1.30	1.00	0.46	0.28	
20	1.80	10.52	0.94	4.86	25.60	21.24	16.80	4.86	1.30	0.94	0.46	0.28	
21	3.35	5.20	0.88	5.92	42.40	20.04	31.68	4.01	1.30	0.94	0.46	0.28	
22	1.90	2.00	0.82	20.40	31.16	12.12	17.52	3.50	1.20	0.88	0.46	0.25	
23	0.94	3.35	0.76	22.50	31.16	10.52	12.76	3.20	1.20	0.88	0.40	0.25	
24	0.88	3.50	0.70	27.10	15.10	12.12	9.94	2.90	1.20	0.88	0.40	0.25	
25	0.76	2.60	0.64	11.48	33.76	70.30	16.46	2.60	1.20	0.88	0.40	0.22	
26	0.70	2.00	0.58	7.12	33.76	82.90	31.16	2.45	1.10	0.88	0.40	0.22	
27	0.70	2.15	0.58	4.69	24.18	60.40	28.60	2.30	1.10	0.82	0.40	0.22	
28	0.64	1.40	0.64	4.18	18.96	44.80	23.34	2.15	1.10	0.82	0.40	0.19	
29	0.70	1.10	0.64	4.18	13.40	52.00	14.76	2.00	1.10	0.82		0.19	
30	0.64	1.00	0.64	3.35	9.42	93.80	11.16	1.90	1.00	0.82		0.19	
31		0.94		3.35	7.12		8.64		1.00	0.82		0.16	
TOTAL	43.33	62.10	51.09	203.02	486.62	1131.44	965.22	141.93	47.70	40.18	15.64	9.25	3197.52 CMSDAY
MEAN	1.44	2.00	1.70	6.55	15.70	37.71	31.14	4.73	1.54	1.30	0.56	0.30	8.76 CMS
MAX	4.86	10.52	5.44	27.10	42.40	122.60	101.80	14.08	2.60	3.35	0.76	0.40	122.60 CMS
MIN	0.64	0.40	0.58	0.82	5.03	4.52	8.64	1.90	1.00	0.82	0.40	0.16	0.16 CMS
RUNOFF	3.744	5.365	4.414	17.541	42.044	97.756	83.395	12.263	4.121	3.472	1.351	0.799	276.266 MCM

MOMENTARY PEAK 156.30 CMS, AT 4.57 M (A.D), AT 19.00 HOURS, ON SEP 9, 1982
RUNOFF YIELD 11.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 197.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

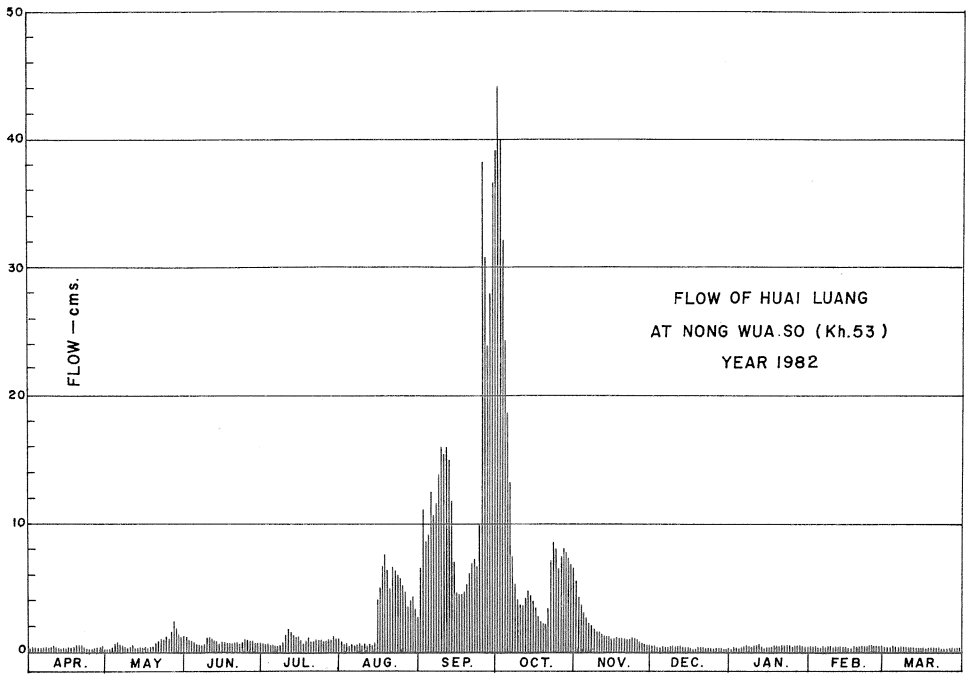
HUAI LUANG AT NONG WUA SO, UDON THANI (KH.53)

LOCATION	LAT. 17°-15'-53" N., LONG. 102°-35'-48" E., ON LEFT BANK AT THE BRIDGE OF UDON THANI-LOEI HIGHWAY, AMPHOE NONG WUA SO, UDON THANI.
DRAINAGE AREA	436 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+202.316 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+208.00 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1975 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1975 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	202.14	202.14	202.37	202.23	202.28	203.18	205.38	202.94	202.19	202.12	202.19	202.17	
2	202.14	202.14	202.31	202.22	202.25	203.39	205.12	202.83	202.18	202.12	202.19	202.17	
3	202.14	202.15	202.28	202.23	202.23	203.22	204.72	202.76	202.16	202.12	202.19	202.18	
4	202.14	202.24	202.25	202.21	202.21	203.27	204.30	202.67	202.15	202.12	202.19	202.18	
5	202.14	202.24	202.23	202.21	202.25	203.51	203.96	202.63	202.15	202.13	202.19	202.18	
6	202.14	202.22	202.23	202.18	202.22	203.37	203.54	202.57	202.15	202.19	202.19	202.18	
7	202.14	202.19	202.22	202.18	202.23	203.47	203.09	202.52	202.15	202.17	202.19	202.18	
8	202.14	202.18	202.25	202.23	202.23	203.71	202.87	202.51	202.15	202.16	202.17	202.18	
9	202.19	202.18	202.37	202.25	202.22	203.74	202.80	202.48	202.18	202.15	202.17	202.18	
10	202.17	202.17	202.34	202.43	202.22	203.70	202.78	202.46	202.19	202.14	202.17	202.18	
11	202.15	202.16	202.31	202.49	202.20	203.74	202.78	202.42	202.18	202.13	202.17	202.18	
12	202.14	202.16	202.31	202.44	202.23	203.68	202.84	202.40	202.17	202.13	202.17	202.18	
13	202.14	202.14	202.27	202.41	202.22	203.41	202.88	202.39	202.15	202.13	202.17	202.17	
14	202.14	202.17	202.27	202.35	202.26	203.06	202.85	202.37	202.15	202.13	202.17	202.17	
15	202.16	202.17	202.27	202.33	202.82	202.85	202.79	202.37	202.14	202.13	202.17	202.17	
16	202.14	202.17	202.25	202.32	202.90	202.85	202.74	202.39	202.14	202.13	202.17	202.17	
17	202.14	202.14	202.23	202.26	203.07	202.85	202.66	202.38	202.14	202.14	202.17	202.17	
18	202.14	202.14	202.23	202.29	203.14	202.88	202.60	202.38	202.13	202.14	202.17	202.17	
19	202.18	202.15	202.25	202.32	202.95	202.96	202.55	202.39	202.13	202.14	202.17	202.17	
20	202.19	202.26	202.24	202.28	202.90	203.05	202.56	202.38	202.13	202.14	202.17	202.17	
21	202.18	202.29	202.27	202.30	203.06	203.10	202.80	202.36	202.13	202.14	202.17	202.16	
22	202.19	202.30	202.25	202.31	203.02	203.10	203.11	202.34	202.11	202.14	202.17	202.16	
23	202.16	202.30	202.27	202.33	203.00	203.06	203.20	202.33	202.11	202.14	202.17	202.16	
24	202.16	202.37	202.29	202.31	202.97	203.60	203.17	202.34	202.11	202.13	202.17	202.16	
25	202.15	202.35	202.30	202.31	202.93	205.06	203.04	202.32	202.12	202.13	202.17	202.16	
26	202.15	202.52	202.28	202.31	202.86	204.53	203.15	202.29	202.12	202.13	202.17	202.16	
27	202.14	202.45	202.27	202.36	202.75	204.24	203.17	202.26	202.12	202.13	202.17	202.16	
28	202.14	202.39	202.27	202.34	202.83	204.52	203.14	202.25	202.12	202.15	202.17	202.16	
29	202.14	202.60	202.26	202.37	202.83	205.07	203.11	202.21	202.12	202.17		202.16	
30	202.14	202.49	202.27	202.35	202.72	205.10	203.08	202.21	202.12	202.19		202.16	
31		202.38		202.31	202.65		203.02		202.12	202.19		202.16	
MEAN	202.15	202.26	202.27	202.31	202.60	203.58	203.22	202.44	202.14	202.14	202.17	202.17	
MAX	202.19	202.60	202.37	202.49	203.14	205.10	205.38	202.94	202.19	202.19	202.19	202.18	205.38
MIN	202.14	202.14	202.22	202.18	202.20	202.85	202.55	202.21	202.11	202.12	202.17	202.16	202.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 205.46 M (MSL), AT 8.00 HOURS, ON OCT 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 202.32 M (MSL), RIVER BED 202.10 M (MSL)
LEFT BANK ELEVATION 207.82 M (MSL)
RIGHT BANK ELEVATION 207.81 M (MSL), DRAINAGE AREA 436 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.24	1.00	0.44	0.64	8.12	43.94	5.32	0.34	0.20	0.34	0.30	
2	0.24	0.24	0.76	0.40	0.52	10.81	39.20	4.20	0.32	0.20	0.34	0.30	
3	0.24	0.26	0.64	0.44	0.44	8.60	32.00	3.56	0.28	0.20	0.34	0.32	
4	0.24	0.48	0.52	0.38	0.38	9.25	24.86	2.85	0.26	0.20	0.34	0.32	
5	0.24	0.48	0.44	0.38	0.52	12.46	19.34	2.57	0.26	0.22	0.34	0.32	
6	0.24	0.40	0.44	0.32	0.40	10.55	12.90	2.15	0.26	0.34	0.34	0.32	
7	0.24	0.34	0.40	0.32	0.44	11.90	7.04	1.80	0.26	0.30	0.34	0.32	
8	0.24	0.32	0.52	0.44	0.44	15.45	4.60	1.74	0.26	0.28	0.30	0.32	
9	0.34	0.32	1.00	0.52	0.40	15.90	3.92	1.56	0.32	0.26	0.30	0.32	
10	0.30	0.30	0.88	1.26	0.40	15.30	3.74	1.44	0.34	0.24	0.30	0.30	
11	0.26	0.28	0.76	1.62	0.36	15.90	3.74	1.20	0.32	0.22	0.30	0.32	
12	0.24	0.28	0.76	1.32	0.44	15.00	4.30	1.12	0.30	0.22	0.30	0.32	
13	0.24	0.24	0.60	1.16	0.40	11.07	4.70	1.08	0.26	0.22	0.30	0.30	
14	0.24	0.30	0.60	0.92	0.56	6.68	4.40	1.00	0.26	0.22	0.30	0.30	
15	0.28	0.30	0.60	0.84	4.10	4.40	3.83	1.00	0.24	0.22	0.30	0.30	
16	0.24	0.30	0.52	0.80	4.90	4.40	3.38	1.08	0.24	0.22	0.30	0.30	
17	0.24	0.24	0.44	0.56	6.80	4.40	2.78	1.04	0.24	0.24	0.30	0.30	
18	0.24	0.24	0.44	0.68	7.64	4.70	2.36	1.04	0.22	0.24	0.30	0.30	
19	0.32	0.26	0.52	0.80	5.43	5.54	2.01	1.08	0.22	0.24	0.30	0.30	
20	0.34	0.56	0.48	0.64	4.90	6.56	2.08	1.04	0.22	0.24	0.30	0.30	
21	0.32	0.68	0.60	0.72	6.68	7.16	3.92	0.96	0.22	0.24	0.30	0.28	
22	0.34	0.72	0.52	0.76	6.20	7.16	7.28	0.88	0.18	0.24	0.30	0.28	
23	0.28	0.72	0.60	0.84	5.98	6.68	8.36	0.84	0.18	0.24	0.30	0.28	
24	0.28	1.00	0.68	0.76	5.65	13.80	8.00	0.88	0.18	0.22	0.30	0.28	
25	0.26	0.92	0.72	0.76	5.21	38.12	6.44	0.80	0.20	0.22	0.30	0.28	
26	0.26	1.80	0.64	0.76	4.50	28.77	7.76	0.68	0.20	0.22	0.30	0.28	
27	0.24	1.38	0.60	0.96	3.47	23.84	8.00	0.56	0.20	0.22	0.30	0.28	
28	0.24	1.08	0.60	0.88	4.20	28.60	7.64	0.52	0.20	0.26	0.30	0.28	
29	0.24	2.36	0.56	1.00	4.20	38.30	7.28	0.38	0.20	0.30		0.28	
30	0.24	1.62	0.60	0.92	3.20	38.84	6.92	0.38	0.20	0.34		0.28	
31		1.04		0.76	2.71		6.20		0.20	0.34		0.28	
TOTAL	7.90	19.70	18.44	23.36	92.11	428.26	302.92	44.75	7.58	7.56	8.68	9.28	970.54 CMSDAY
MEAN	0.26	0.64	0.61	0.75	2.97	14.28	9.77	1.49	0.24	0.24	0.31	0.30	2.66 CMS
MAX	0.34	2.36	1.00	1.62	7.64	38.84	43.94	5.32	0.34	0.34	0.34	0.32	43.94 CMS
MIN	0.24	0.24	0.40	0.32	0.36	4.40	2.01	0.38	0.18	0.20	0.30	0.28	0.18 CMS
RUNOFF	0.683	1.702	1.593	2.018	7.958	37.002	26.172	3.866	0.655	0.653	0.750	0.802	83.855 MCM

MOMENTARY PEAK 45.46 CMS, AT 205.46 M (MSL), AT 8.00 HOURS, ON OCT 1, 1982

RUNOFF YIELD 6.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 104.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

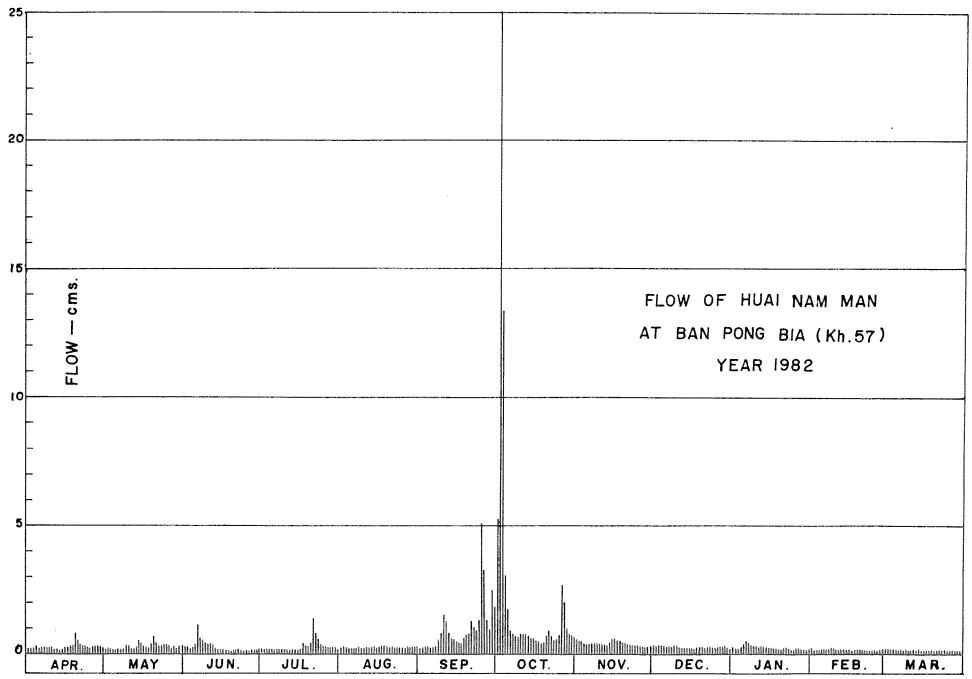
HUAI NAM MAN AT BAN PONG BIA, LOEI (KH.57)

LOCATION	LAT. 17°-30'-13" N., LONG. 101°-37'-35" E., ON LEFT BANK AT BAN PONG BIA, TAMBON NAM MAN, AMPHOE MUANG, LOEI.
DRAINAGE AREA	79 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE OBSERVER'S HOUSE.
ELEVATION	+12.895 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 101 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.31	0.34	0.38	0.25	0.35	0.33	1.01	0.53	0.43	0.32	0.32	0.29	
2	0.32	0.34	0.37	0.27	0.34	0.32	2.06	0.50	0.43	0.32	0.32	0.29	
3	0.32	0.33	0.35	0.27	0.34	0.33	1.31	0.48	0.42	0.32	0.31	0.29	
4	0.32	0.32	0.36	0.26	0.34	0.33	0.93	0.48	0.40	0.32	0.31	0.28	
5	0.34	0.32	0.47	0.25	0.33	0.35	0.79	0.47	0.40	0.43	0.32	0.28	
6	0.36	0.31	0.74	0.25	0.34	0.36	0.69	0.47	0.39	0.48	0.32	0.28	
7	0.36	0.30	0.56	0.26	0.34	0.38	0.62	0.47	0.39	0.46	0.31	0.28	
8	0.34	0.30	0.49	0.26	0.33	0.54	0.60	0.46	0.38	0.44	0.31	0.28	
9	0.34	0.36	0.51	0.26	0.33	0.66	0.57	0.45	0.36	0.42	0.30	0.29	
10	0.35	0.36	0.47	0.26	0.33	0.81	0.68	0.45	0.36	0.40	0.30	0.29	
11	0.35	0.37	0.43	0.27	0.32	0.74	0.63	0.44	0.36	0.39	0.29	0.28	
12	0.35	0.36	0.40	0.29	0.33	0.64	0.64	0.43	0.35	0.37	0.29	0.27	
13	0.34	0.35	0.37	0.31	0.33	0.56	0.59	0.44	0.35	0.36	0.30	0.27	
14	0.34	0.56	0.33	0.32	0.33	0.51	0.56	0.45	0.34	0.35	0.30	0.27	
15	0.34	0.47	0.31	0.32	0.33	0.49	0.54	0.56	0.32	0.35	0.30	0.27	
16	0.36	0.42	0.29	0.35	0.33	0.49	0.51	0.56	0.32	0.34	0.30	0.28	
17	0.40	0.39	0.29	0.50	0.34	0.50	0.49	0.53	0.33	0.33	0.29	0.28	
18	0.40	0.36	0.28	0.44	0.33	0.61	0.46	0.51	0.33	0.32	0.29	0.28	
19	0.69	0.43	0.28	0.41	0.33	0.61	0.44	0.49	0.33	0.32	0.29	0.30	
20	0.50	0.61	0.30	0.47	0.34	0.66	0.64	0.47	0.33	0.33	0.30	0.30	
21	0.45	0.47	0.33	0.79	0.33	0.77	0.70	0.45	0.32	0.32	0.29	0.29	
22	0.41	0.42	0.30	0.68	0.33	0.70	0.60	0.44	0.32	0.36	0.29	0.29	
23	0.39	0.40	0.29	0.55	0.33	0.67	0.55	0.43	0.32	0.34	0.30	0.28	
24	0.37	0.46	0.28	0.46	0.33	0.80	0.53	0.42	0.32	0.35	0.30	0.28	
25	0.35	0.45	0.27	0.41	0.33	1.27	0.62	0.42	0.31	0.34	0.30	0.28	
26	0.34	0.42	0.27	0.39	0.33	0.86	0.95	0.41	0.31	0.34	0.30	0.28	
27	0.40	0.42	0.27	0.37	0.33	0.73	0.84	0.40	0.30	0.33	0.29	0.28	
28	0.43	0.40	0.26	0.37	0.33	0.68	0.69	0.39	0.30	0.32	0.29	0.28	
29	0.36	0.37	0.26	0.36	0.33	0.93	0.61	0.39	0.33	0.32		0.28	
30	0.34	0.44	0.26	0.36	0.33	0.84	0.58	0.41	0.33	0.31		0.28	
31		0.40		0.35	0.33		0.55		0.32	0.32		0.27	
MEAN	0.38	0.40	0.36	0.37	0.33	0.62	0.71	0.46	0.35	0.36	0.30	0.28	
MAX	0.69	0.61	0.74	0.79	0.35	1.27	2.06	0.56	0.43	0.48	0.32	0.30	2.06
MIN	0.31	0.30	0.26	0.25	0.32	0.32	0.44	0.39	0.30	0.31	0.29	0.27	0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.22 M (A.D), AT 6.00 HOURS, ON OCT 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.14 M (A.D)
LEFT BANK ELEVATION 11.22 M (A.D)
RIGHT BANK ELEVATION 5.91 M (A.D), DRAINAGE AREA 79 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	0.15	0.20	0.05	0.16	0.14	3.10	0.45	0.28	0.13	0.13	0.09	
2	0.13	0.15	0.19	0.07	0.15	0.13	25.24	0.38	0.28	0.13	0.13	0.09	
3	0.13	0.14	0.16	0.07	0.15	0.14	6.76	0.35	0.26	0.13	0.11	0.09	
4	0.13	0.13	0.18	0.06	0.15	0.14	2.44	0.35	0.23	0.13	0.11	0.08	
5	0.15	0.13	0.34	0.05	0.14	0.16	1.39	0.34	0.23	0.28	0.13	0.08	
6	0.18	0.11	1.09	0.05	0.15	0.18	0.83	0.34	0.22	0.35	0.13	0.08	
7	0.18	0.10	0.51	0.06	0.15	0.20	0.65	0.34	0.22	0.32	0.11	0.08	
8	0.15	0.10	0.37	0.06	0.14	0.47	0.60	0.32	0.20	0.29	0.11	0.08	
9	0.15	0.18	0.40	0.06	0.14	0.75	0.53	0.30	0.18	0.26	0.10	0.09	
10	0.16	0.18	0.34	0.06	0.14	1.52	0.80	0.30	0.18	0.23	0.10	0.09	
11	0.16	0.19	0.28	0.07	0.13	1.09	0.68	0.29	0.18	0.22	0.09	0.08	
12	0.16	0.18	0.23	0.09	0.14	0.70	0.70	0.28	0.16	0.19	0.09	0.07	
13	0.15	0.16	0.19	0.11	0.14	0.51	0.58	0.29	0.16	0.18	0.10	0.07	
14	0.15	0.51	0.14	0.13	0.14	0.40	0.51	0.30	0.15	0.16	0.10	0.07	
15	0.15	0.34	0.11	0.13	0.14	0.37	0.47	0.51	0.13	0.16	0.10	0.07	
16	0.18	0.26	0.09	0.16	0.14	0.37	0.40	0.51	0.13	0.15	0.10	0.08	
17	0.23	0.22	0.09	0.38	0.15	0.38	0.37	0.45	0.14	0.14	0.09	0.08	
18	0.23	0.18	0.08	0.29	0.14	0.63	0.32	0.40	0.14	0.13	0.09	0.08	
19	0.83	0.28	0.08	0.24	0.14	0.63	0.29	0.37	0.14	0.13	0.09	0.10	
20	0.38	0.63	0.10	0.34	0.15	0.75	0.70	0.34	0.14	0.14	0.10	0.10	
21	0.30	0.34	0.14	1.39	0.14	1.27	0.85	0.30	0.13	0.13	0.09	0.09	
22	0.24	0.26	0.10	0.80	0.14	0.85	0.60	0.29	0.13	0.18	0.09	0.09	
23	0.22	0.23	0.09	0.49	0.14	0.78	0.49	0.28	0.13	0.15	0.10	0.08	
24	0.19	0.32	0.08	0.32	0.14	1.45	0.45	0.26	0.13	0.16	0.10	0.08	
25	0.16	0.30	0.07	0.24	0.14	5.04	0.65	0.26	0.11	0.15	0.10	0.08	
26	0.15	0.26	0.07	0.22	0.14	1.90	2.60	0.24	0.11	0.15	0.10	0.08	
27	0.23	0.26	0.07	0.19	0.14	1.03	1.75	0.23	0.10	0.14	0.09	0.08	
28	0.28	0.23	0.06	0.19	0.14	0.80	0.83	0.22	0.10	0.13	0.09	0.08	
29	0.18	0.19	0.06	0.18	0.14	2.44	0.63	0.22	0.14	0.13		0.08	
30	0.15	0.29	0.06	0.18	0.14	1.75	0.56	0.24	0.14	0.11		0.08	
31		0.23		0.16	0.14		0.49		0.13	0.13		0.07	
TOTAL	6.19	7.23	5.97	6.89	4.42	26.97	57.26	9.75	5.10	5.41	2.87	2.54	140.60 CMSDAY
MEAN	0.21	0.23	0.20	0.22	0.14	0.90	1.85	0.33	0.16	0.17	0.10	0.08	0.39 CMS
MAX	0.83	0.63	1.09	1.39	0.16	5.04	25.24	0.51	0.28	0.35	0.13	0.10	25.24 CMS
MIN	0.11	0.10	0.06	0.05	0.13	0.13	0.29	0.22	0.10	0.11	0.09	0.07	0.05 CMS
RUNOFF	0.535	0.625	0.516	0.595	0.382	2.330	4.947	0.842	0.441	0.467	0.248	0.219	12.148 MCM

MOMENTARY PEAK 84.00 CMS, AT 3.22 M (A.D), AT 6.00 HOURS, ON OCT 2, 1982

RUNOFF YIELD 4.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1063.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

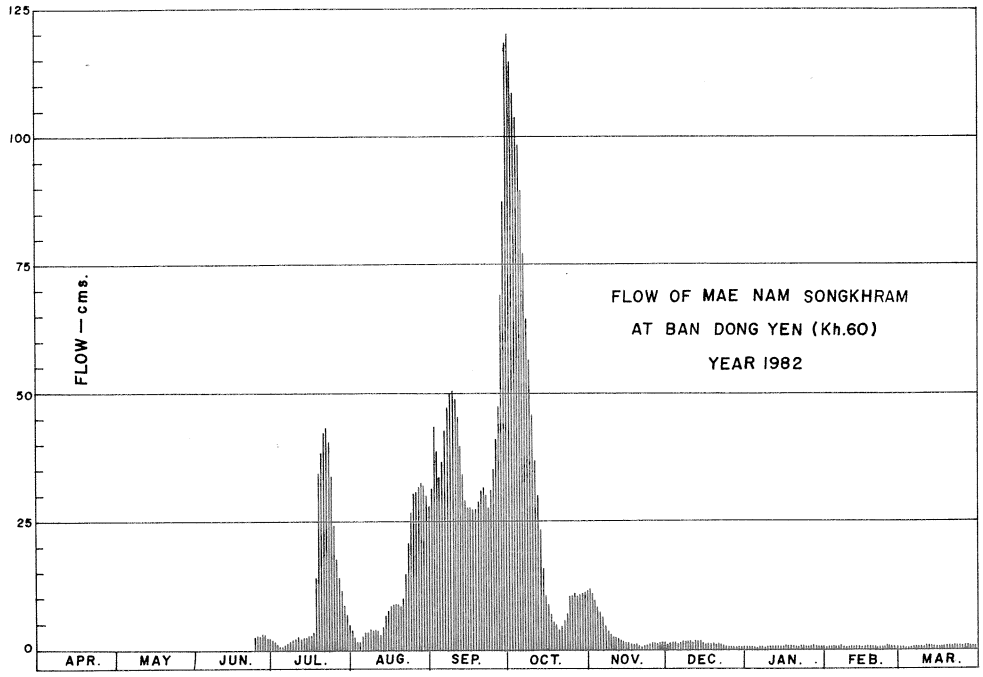
SONGKHRAM RIVER AT BAN DONG YEN, UDON THANI (KH.60)

LOCATION	LAT. 17°-35'-48" N., LONG. 103°-24'-45" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN DONG YEN, AMPHOE BAN DUNG, UDON THANI.
DRAINAGE AREA	1,177 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENTS OF THE BRIDGE.
ELEVATION	+7.154 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JUN.26, 1982. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.99	2.18	3.13	4.09	2.64	1.98	1.80	1.82	1.85	
2	*******	*******	*******	1.96	2.07	3.27	4.03	2.61	1.97	1.79	1.82	1.85	
3	*******	*******	*******	1.93	2.01	3.20	3.98	2.56	1.97	1.78	1.82	1.85	
4	*******	*******	*******	1.89	2.02	3.13	3.93	2.51	1.99	1.81	1.82	1.85	
5	*******	*******	*******	1.89	2.16	3.21	3.87	2.46	1.98	1.82	1.82	1.85	
6	*******	*******	*******	1.94	2.23	3.28	3.77	2.35	1.98	1.83	1.83	1.84	
7	*******	*******	*******	1.99	2.23	3.33	3.64	2.30	1.99	1.84	1.83	1.84	
8	*******	*******	*******	2.04	2.24	3.35	3.51	2.24	2.00	1.84	1.83	1.83	
9	*******	*******	*******	2.07	2.25	3.36	3.40	2.16	2.00	1.85	1.84	1.83	
10	*******	*******	*******	2.10	2.24	3.34	3.29	2.12	2.00	1.88	1.84	1.85	
11	*******	*******	*******	2.11	2.21	3.30	3.18	2.10	2.00	1.89	1.85	1.84	
12	*******	*******	*******	2.10	2.19	3.21	3.06	2.09	1.99	1.89	1.86	1.84	
13	*******	*******	*******	2.10	2.29	3.12	2.94	2.06	2.00	1.89	1.86	1.82	
14	*******	*******	*******	2.11	2.43	3.04	2.77	2.04	2.00	1.88	1.85	1.80	
15	*******	*******	*******	2.14	2.50	3.02	2.60	2.02	1.98	1.88	1.85	1.80	
16	*******	*******	*******	2.18	2.53	3.02	2.48	2.00	1.97	1.86	1.85	1.79	
17	*******	*******	*******	2.23	2.53	3.02	2.39	1.96	1.97	1.85	1.85	1.78	
18	*******	*******	*******	2.70	2.54	3.03	2.33	1.93	1.95	1.85	1.85	1.78	
19	*******	*******	*******	3.16	2.53	3.06	2.29	1.92	1.94	1.86	1.85	1.78	
20	*******	*******	*******	3.22	2.52	3.09	2.26	1.90	1.93	1.84	1.85	1.77	
21	*******	*******	*******	3.26	2.62	3.10	2.28	1.88	1.94	1.83	1.84	1.76	
22	*******	*******	*******	3.27	2.79	3.07	2.35	1.89	1.92	1.83	1.83	1.77	
23	*******	*******	*******	3.23	2.91	3.03	2.46	1.92	1.89	1.82	1.83	1.76	
24	*******	*******	*******	3.13	3.03	3.12	2.60	1.93	1.86	1.81	1.84	1.74	
25	*******	*******	*******	2.96	3.09	3.17	2.60	1.95	1.86	1.81	1.85	1.73	
26	*******	*******	2.12	2.83	3.09	3.25	2.62	1.96	1.84	1.82	1.85	1.73	
27	*******	*******	2.15	2.74	3.11	3.41	2.61	1.98	1.81	1.82	1.85	1.72	
28	*******	*******	2.15	2.66	3.11	3.59	2.61	1.99	1.83	1.80	1.85	1.72	
29	*******	*******	2.10	2.58	3.10	3.88	2.62	2.00	1.83	1.81		1.71	
30	*******	*******	2.07	2.46	3.08	4.09	2.63	1.99	1.81	1.81		1.70	
31		*******		2.31	3.03		2.64		1.80	1.82		1.70	
MEAN	*******	*******	*******	2.43	2.54	3.24	2.96	2.12	1.93	1.84	1.84	1.79	
MAX	*******	*******	2.15	3.27	3.11	4.09	4.09	2.64	2.00	1.89	1.86	1.85	4.09
MIN	*******	*******	*******	1.89	2.01	3.02	2.26	1.88	1.80	1.78	1.82	1.70	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.11 M (A.D), AT 1.00 HOURS, ON OCT 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.72 M (A.D)
LEFT BANK ELEVATION 6.98 M (A.D)
RIGHT BANK ELEVATION 6.96 M (A.D), DRAINAGE AREA 1177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.14	2.80	33.52	119.90	11.52	1.08	0.20	0.28	0.40	
2	*******	*******	*******	0.96	1.76	43.60	113.30	10.68	1.02	0.19	0.28	0.40	
3	*******	*******	*******	0.78	1.28	38.00	108.00	9.44	1.02	0.18	0.28	0.40	
4	*******	*******	*******	0.56	1.36	33.52	103.00	8.24	1.14	0.24	0.28	0.40	
5	*******	*******	*******	0.56	2.60	38.80	97.00	7.28	1.08	0.28	0.28	0.40	
6	*******	*******	*******	0.84	3.42	44.40	87.00	5.30	1.08	0.32	0.32	0.36	
7	*******	*******	*******	1.14	3.42	48.40	74.60	4.40	1.14	0.36	0.32	0.36	
8	*******	*******	*******	1.52	3.56	50.00	62.90	3.56	1.20	0.36	0.32	0.32	
9	*******	*******	*******	1.76	3.70	50.80	54.00	2.60	1.20	0.40	0.36	0.32	
10	*******	*******	*******	2.00	3.56	49.20	45.20	2.20	1.20	0.52	0.36	0.40	
11	*******	*******	*******	2.10	3.14	46.00	36.72	2.00	1.20	0.56	0.40	0.36	
12	*******	*******	*******	2.00	2.90	38.80	29.36	1.92	1.14	0.56	0.44	0.36	
13	*******	*******	*******	2.00	4.26	32.88	22.88	1.68	1.20	0.56	0.44	0.28	
14	*******	*******	*******	2.10	6.74	28.24	15.72	1.52	1.20	0.52	0.40	0.20	
15	*******	*******	*******	2.40	8.00	27.12	10.40	1.36	1.08	0.52	0.40	0.20	
16	*******	*******	*******	2.80	8.72	27.12	7.64	1.20	1.02	0.44	0.40	0.19	
17	*******	*******	*******	3.42	8.72	27.12	6.02	0.96	1.02	0.40	0.40	0.18	
18	*******	*******	*******	13.20	8.96	27.68	4.94	0.78	0.90	0.40	0.40	0.18	
19	*******	*******	*******	35.44	8.72	29.36	4.26	0.72	0.84	0.44	0.40	0.18	
20	*******	*******	*******	39.60	8.48	31.04	3.84	0.60	0.78	0.36	0.40	0.17	
21	*******	*******	*******	42.80	10.96	31.60	4.12	0.52	0.84	0.32	0.36	0.16	
22	*******	*******	*******	43.60	16.44	29.92	5.30	0.56	0.72	0.32	0.32	0.17	
23	*******	*******	*******	40.40	21.32	27.68	7.28	0.72	0.56	0.28	0.32	0.16	
24	*******	*******	*******	33.52	27.68	32.88	10.40	0.78	0.44	0.24	0.36	0.14	
25	*******	*******	*******	23.92	31.04	36.08	10.40	0.90	0.44	0.24	0.40	0.13	
26	*******	*******	2.20	18.00	31.04	42.00	10.96	0.96	0.36	0.28	0.40	0.13	
27	*******	*******	2.50	14.64	32.24	54.80	10.68	1.08	0.24	0.28	0.40	0.12	
28	*******	*******	2.50	12.08	32.24	70.10	10.68	1.14	0.32	0.20	0.40	0.12	
29	*******	*******	2.00	9.92	31.60	98.00	10.96	1.20	0.32	0.24		0.11	
30	*******	*******	1.76	7.28	30.48	119.90	11.24	1.14	0.24	0.24		0.10	
31		*******		4.58	27.68		11.52		0.20	0.28		0.10	
TOTAL	*******	*******	*******	367.06	388.82	1288.56	1110.22	86.96	26.22	10.73	10.12	7.50	******** CMSDAY
MEAN	*******	*******	*******	11.84	12.54	42.95	35.81	2.90	0.85	0.35	0.36	0.24	******** CMS
MAX	*******	*******	2.50	43.60	32.24	119.90	119.90	11.52	1.20	0.56	0.44	0.40	119.90 CMS
MIN	*******	*******	*******	0.56	1.28	27.12	3.84	0.52	0.20	0.18	0.28	0.10	******** CMS
RUNOFF	*******	*******	*******	31.714	33.594	111.332	95.923	7.513	2.265	0.927	0.874	0.648	******** MCM

MOMENTARY PEAK 122.10 CMS, AT 4.11 M (A.D), AT 1.00 HOURS, ON OCT 1, 1982

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 103.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

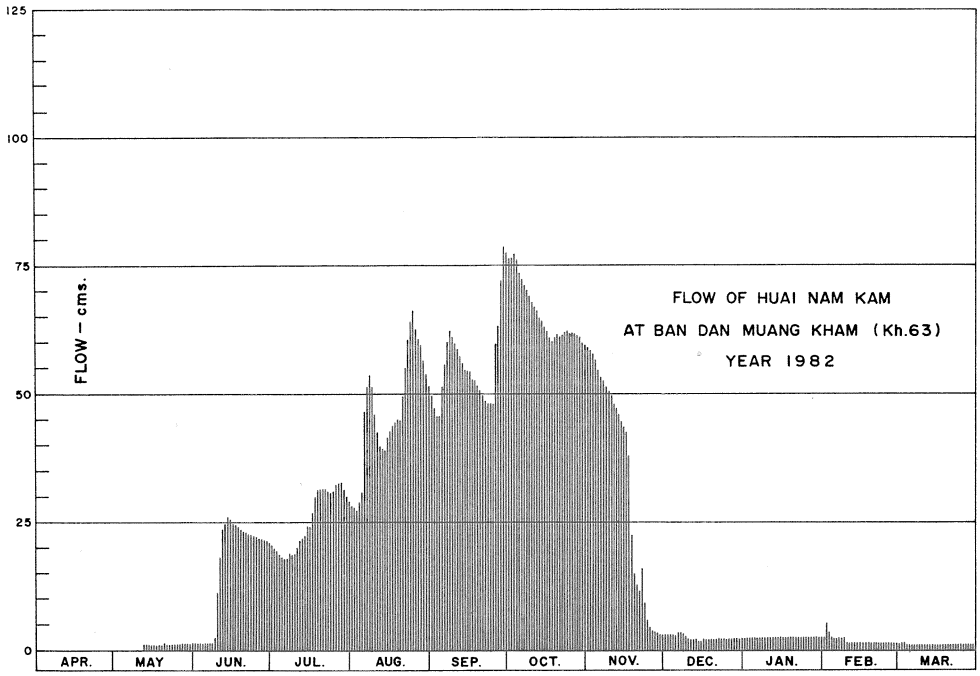
HUAI NAM KAM AT BAN DAN MUANG KHAM, SAKON NAKHON (KH.63)

LOCATION	LAT. 17°-06'-15" N., LONG. 104°-21'-26" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN DAN MUANG KHAM, KING AMPHOE KHOK SI SUPHAN, SAKON NAKHON.
DRAINAGE AREA	1,764 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+7.428 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 MEAN OF 5 READINGS
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE BECAUSE OF BACKWATER EFFECT
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW .
GENERAL DESCRIPTION	RECORDS FAIR . STREAM GAGING BEGAN ON MAY 13, 1982. STAGE-DISCHARGE RELATION DEFINED BY 54 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	0.62	2.66	3.17	4.27	5.04	4.60	1.00	0.83	0.86	0.60	
2	*******	*******	0.62	2.61	3.10	4.18	5.03	4.58	0.98	0.82	1.28	0.60	
3	*******	*******	0.63	2.59	3.04	4.09	5.05	4.54	0.97	0.83	0.97	0.57	
4	*******	*******	0.62	2.54	3.21	4.10	5.04	4.50	0.97	0.83	0.83	0.54	
5	*******	*******	0.63	2.50	3.33	4.29	5.00	4.46	0.98	0.84	0.81	0.54	
6	*******	*******	0.64	2.48	4.10	4.47	4.97	4.41	1.03	0.85	0.83	0.55	
7	*******	*******	0.67	2.48	4.31	4.64	4.94	4.38	1.04	0.85	0.81	0.55	
8	*******	*******	0.66	2.55	4.42	4.70	4.92	4.34	1.03	0.85	0.88	0.55	
9	*******	*******	0.89	2.52	4.29	4.69	4.90	4.30	0.88	0.85	0.85	0.54	
10	*******	*******	1.89	2.55	4.10	4.64	4.88	4.24	0.80	0.85	0.67	0.53	
11	*******	*******	2.46	2.66	3.93	4.59	4.86	4.19	0.78	0.86	0.63	0.54	
12	*******	*******	2.86	2.73	3.80	4.54	4.83	4.14	0.78	0.88	0.63	0.54	
13	*******	0.55	2.94	2.77	3.79	4.50	4.80	4.09	0.76	0.86	0.65	0.52	
14	*******	0.54	3.02	2.81	3.77	4.45	4.77	4.05	0.76	0.85	0.64	0.53	
15	*******	0.53	2.98	2.85	3.91	4.45	4.73	4.01	0.76	0.85	0.64	0.54	
16	*******	0.54	2.96	2.90	3.97	4.42	4.70	3.96	0.79	0.84	0.64	0.52	
17	*******	0.56	2.93	3.09	4.02	4.39	4.66	3.72	0.78	0.85	0.63	0.51	
18	*******	0.56	2.90	3.29	4.05	4.37	4.63	3.07	0.78	0.85	0.63	0.51	
19	*******	0.55	2.89	3.35	4.08	4.34	4.65	2.20	0.80	0.85	0.63	0.51	
20	*******	0.67	2.88	3.35	4.03	4.31	4.67	2.05	0.82	0.84	0.63	0.51	
21	*******	0.61	2.86	3.36	4.23	4.26	4.66	1.95	0.81	0.85	0.62	0.51	
22	*******	0.61	2.85	3.36	4.47	4.21	4.68	2.32	0.81	0.86	0.61	0.54	
23	*******	0.61	2.84	3.34	4.65	4.20	4.70	1.67	0.81	0.85	0.62	0.56	
24	*******	0.60	2.82	3.32	4.78	4.20	4.71	1.26	0.81	0.85	0.64	0.57	
25	*******	0.59	2.78	3.32	4.83	4.20	4.69	1.15	0.81	0.85	0.61	0.57	
26	*******	0.59	2.76	3.41	4.74	4.63	4.69	1.08	0.82	0.87	0.61	0.57	
27	*******	0.59	2.75	3.43	4.66	4.76	4.69	1.06	0.81	0.85	0.61	0.56	
28	*******	0.65	2.74	3.43	4.59	4.96	4.68	1.04	0.82	0.85	0.61	0.57	
29	*******	0.61	2.71	3.39	4.51	5.08	4.66	1.01	0.83	0.85		0.57	
30	*******	0.64	2.68	3.33	4.44	5.07	4.63	1.01	0.83	0.85		0.52	
31		0.62		3.25	4.36		4.62		0.85	0.85		0.52	
MEAN	*******	*******	2.15	2.97	4.09	4.47	4.79	3.11	0.85	0.85	0.72	0.54	
MAX	*******	0.67	3.02	3.43	4.83	5.08	5.05	4.60	1.04	0.88	1.28	0.60	5.08
MIN	*******	*******	0.62	2.48	3.04	4.09	4.62	1.01	0.76	0.82	0.61	0.51	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.09 M (A.D), AT 15.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 7.26 M (A.D)
RIGHT BANK ELEVATION 8.32 M (A.D), DRAINAGE AREA 1764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	1.31	20.44	28.32	49.82	76.40	59.00	3.20	2.35	2.50	1.23	
2	*******	*******	1.31	19.74	27.20	47.52	75.80	58.40	3.10	2.30	5.16	1.23	
3	*******	*******	1.34	19.46	26.24	45.40	77.00	57.20	3.05	2.35	3.05	1.12	
4	*******	*******	1.31	18.76	28.96	45.60	76.40	56.00	3.05	2.35	2.35	1.01	
5	*******	*******	1.34	18.20	30.88	50.34	74.00	54.88	3.10	2.40	2.25	1.01	
6	*******	*******	1.38	17.92	45.60	55.16	72.56	53.48	3.41	2.45	2.35	1.05	
7	*******	*******	1.49	17.92	50.86	60.20	71.12	52.68	3.48	2.45	2.25	1.05	
8	*******	*******	1.45	18.90	53.76	62.00	70.16	51.64	3.41	2.45	2.60	1.05	
9	*******	*******	2.65	18.48	50.34	61.70	69.20	50.60	2.60	2.45	2.45	1.01	
10	*******	*******	10.96	18.90	45.60	60.20	68.36	49.04	2.20	2.45	1.49	0.98	
11	*******	*******	17.64	20.44	42.20	58.70	67.52	47.76	2.08	2.50	1.34	1.01	
12	*******	*******	23.36	21.42	39.60	57.20	66.26	46.56	2.08	2.60	1.34	1.01	
13	*******	1.05	24.64	21.98	39.40	56.00	65.00	45.40	1.96	2.50	1.42	0.94	
14	*******	1.01	25.92	22.56	39.00	54.60	64.10	44.60	1.96	2.45	1.38	0.98	
15	*******	0.98	25.28	23.20	41.80	54.60	62.90	43.80	1.96	2.45	1.38	1.01	
16	*******	1.01	24.96	24.00	43.00	53.76	62.00	42.80	2.14	2.40	1.38	0.94	
17	*******	1.09	24.48	27.04	44.00	52.94	60.80	38.00	2.08	2.45	1.34	0.90	
18	*******	1.09	24.00	30.24	44.60	52.42	59.90	26.72	2.08	2.45	1.34	0.90	
19	*******	1.05	23.84	31.20	45.20	51.64	60.50	14.40	2.20	2.45	1.34	0.90	
20	*******	1.49	23.68	31.20	44.20	50.86	61.10	12.67	2.30	2.40	1.34	0.90	
21	*******	1.27	23.36	31.36	48.78	49.56	60.80	11.60	2.25	2.45	1.31	0.90	
22	*******	1.27	23.20	31.36	55.16	48.26	61.40	15.84	2.25	2.50	1.27	1.01	
23	*******	1.27	23.04	31.04	60.50	48.00	62.00	8.61	2.25	2.45	1.31	1.09	
24	*******	1.23	22.72	30.72	64.40	48.00	62.30	5.02	2.25	2.45	1.38	1.12	
25	*******	1.20	22.12	30.72	66.26	48.00	61.70	4.25	2.25	2.45	1.27	1.12	
26	*******	1.20	21.84	32.16	63.20	59.90	61.70	3.76	2.30	2.55	1.27	1.12	
27	*******	1.20	21.70	32.48	60.80	63.80	61.70	3.62	2.25	2.45	1.27	1.09	
28	*******	1.42	21.56	32.48	58.70	72.08	61.40	3.48	2.30	2.45	1.27	1.12	
29	*******	1.27	21.14	31.84	56.30	78.80	60.80	3.27	2.35	2.45		1.12	
30	*******	1.38	20.72	30.88	54.32	78.20	59.90	3.27	2.35	2.45		0.94	
31		1.31		29.60	52.16		59.60		2.45	2.45		0.94	
TOTAL	*******	*******	483.74	786.64	1451.34	1675.26	2034.38	968.35	76.69	75.75	50.40	31.80	******** CMSDAY
MEAN	*******	*******	16.12	25.38	46.82	55.84	65.63	32.28	2.47	2.44	1.80	1.03	******** CMS
MAX	*******	1.49	25.92	32.48	66.26	78.80	77.00	59.00	3.48	2.60	5.16	1.23	78.80 CMS
MIN	*******	*******	1.31	17.92	26.24	45.40	59.60	3.27	1.96	2.30	1.27	0.90	******** CMS
RUNOFF	*******	*******	41.795	67.966	125.396	144.742	175.770	83.665	6.626	6.545	4.355	2.748	******** MCM

MOMENTARY PEAK 79.40 CMS, AT 5.09 M (A.D), AT 15.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 45.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

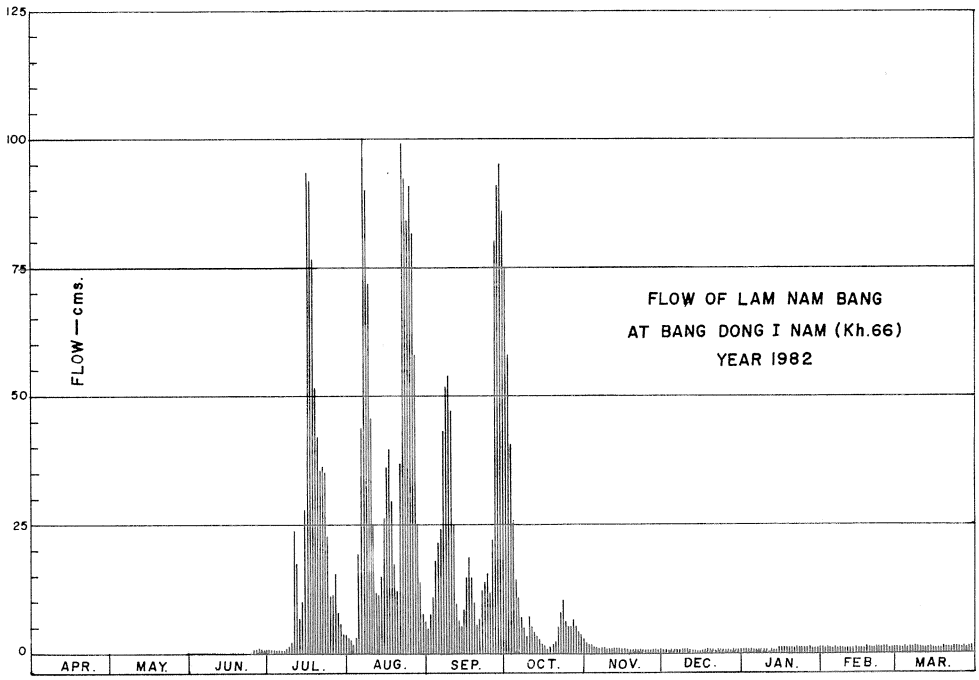
LAM NAM BANG AT BAN DONG I NAM, NAKHON PHANOM (KH.66)

LOCATION	LAT. 17°-04'-22" N., LONG. 104°-34'-38" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN DONG I NAM, AMPHOE NA KAE, NAKHON PHANOM.
DRAINAGE AREA	441 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+9.393 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JUN. 24, 1982. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.68	2.08	2.42	5.90	2.07	1.53	1.45	1.83	1.81	
2	*******	*******	*******	1.67	1.99	2.87	5.28	2.00	1.53	1.47	1.82	1.81	
3	*******	*******	*******	1.56	1.92	3.10	4.69	1.92	1.52	1.47	1.81	1.84	
4	*******	*******	*******	1.59	2.34	3.53	3.93	1.85	1.51	1.47	1.81	1.81	
5	*******	*******	*******	1.55	3.90	3.86	3.24	1.80	1.50	1.47	1.81	1.81	
6	*******	*******	*******	1.52	4.94	3.94	2.91	1.79	1.50	1.48	1.81	1.81	
7	*******	*******	*******	1.56	6.72	4.93	2.61	1.78	1.49	1.54	1.81	1.81	
8	*******	*******	*******	1.85	6.30	5.20	2.35	1.74	1.49	1.52	1.81	1.81	
9	*******	*******	*******	2.03	5.66	5.21	2.23	1.71	1.49	1.48	1.81	1.81	
10	*******	*******	*******	2.05	4.66	4.86	2.66	1.68	1.49	1.48	1.81	1.81	
11	*******	*******	*******	3.91	3.38	3.86	2.41	1.65	1.48	1.50	1.80	1.81	
12	*******	*******	*******	3.42	2.98	2.90	2.32	1.63	1.47	1.49	1.80	1.81	
13	*******	*******	*******	2.65	3.02	2.58	2.21	1.62	1.47	1.61	1.80	1.81	
14	*******	*******	*******	3.08	3.52	2.47	2.10	1.62	1.44	1.71	1.80	1.81	
15	*******	*******	*******	4.80	4.33	2.95	1.99	1.62	1.47	1.80	1.80	1.81	
16	*******	*******	*******	6.52	4.62	3.43	1.88	1.60	1.46	1.82	1.80	1.81	
17	*******	*******	*******	6.49	4.66	3.57	1.83	1.59	1.45	1.83	1.80	1.81	
18	*******	*******	*******	6.08	4.27	3.25	1.82	1.57	1.45	1.83	1.80	1.81	
19	*******	*******	*******	5.24	3.35	2.85	1.92	1.58	1.45	1.82	1.81	1.81	
20	*******	*******	*******	4.77	3.04	2.51	2.16	1.67	1.45	1.80	1.81	1.81	
21	*******	*******	*******	4.48	4.87	2.70	2.50	1.65	1.45	1.81	1.81	1.81	
22	*******	*******	*******	4.55	6.68	3.18	2.77	1.63	1.45	1.81	1.81	1.81	
23	*******	*******	*******	4.47	6.45	3.19	2.94	1.62	1.45	1.80	1.81	1.81	
24	*******	*******	1.42	3.60	6.22	3.30	2.63	1.58	1.45	1.80	1.81	1.81	
25	*******	*******	1.46	3.00	6.44	3.03	2.46	1.58	1.46	1.80	1.81	1.81	
26	*******	*******	1.63	3.02	6.09	5.06	2.47	1.57	1.48	1.80	1.81	1.81	
27	*******	*******	1.73	3.32	5.30	6.30	2.63	1.55	1.47	1.80	1.81	1.81	
28	*******	*******	1.70	2.81	3.71	6.51	2.53	1.53	1.47	1.80	1.81	1.81	
29	*******	*******	1.72	2.52	3.15	6.58	2.40	1.52	1.47	1.80		1.81	
30	*******	*******	1.70	2.34	2.79	6.25	2.29	1.48	1.46	1.83		1.81	
31		*******		2.16	2.56		2.18		1.45	1.83		1.81	
MEAN	*******	*******	*******	3.24	4.26	3.88	2.72	1.67	1.47	1.67	1.81	1.81	
MAX	*******	*******	1.73	6.52	6.72	6.58	5.90	2.07	1.53	1.83	1.83	1.84	6.72
MIN	*******	*******	*******	1.52	1.92	2.42	1.82	1.48	1.44	1.45	1.80	1.81	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.80 M (A.D), AT 6.00 HOURS, ON AUG 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)
LEFT BANK ELEVATION 9.17 M (A.D)
RIGHT BANK ELEVATION 9.16 M (A.D), DRAINAGE AREA 441 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	0.56	2.28	4.68	74.60	2.22	0.33	0.25	0.99	0.93	
2	*******	*******	*******	0.54	1.74	9.61	56.00	1.80	0.33	0.27	0.96	0.93	
3	*******	*******	*******	0.36	1.32	12.60	40.07	1.32	0.32	0.27	0.93	1.02	
4	*******	*******	*******	0.39	3.96	18.19	24.54	1.05	0.31	0.27	0.93	0.93	
5	*******	*******	*******	0.35	24.00	23.28	14.42	0.90	0.30	0.27	0.93	0.93	
6	*******	*******	*******	0.32	46.44	24.72	10.13	0.87	0.30	0.28	0.93	0.93	
7	*******	*******	*******	0.36	100.08	46.18	6.50	0.84	0.29	0.34	0.93	0.93	
8	*******	*******	*******	1.05	86.60	53.60	4.05	0.72	0.29	0.32	0.93	0.93	
9	*******	*******	*******	1.98	67.40	53.90	3.18	0.63	0.29	0.28	0.93	0.93	
10	*******	*******	*******	2.10	39.38	44.36	7.00	0.56	0.29	0.28	0.93	0.93	
11	*******	*******	*******	24.18	16.24	23.28	4.59	0.50	0.28	0.30	0.90	0.93	
12	*******	*******	*******	16.76	11.04	10.00	3.78	0.46	0.27	0.29	0.90	0.93	
13	*******	*******	*******	6.90	11.56	6.20	3.06	0.44	0.27	0.42	0.90	0.93	
14	*******	*******	*******	12.34	18.06	5.13	2.40	0.44	0.24	0.63	0.90	0.93	
15	*******	*******	*******	42.80	32.00	10.65	1.74	0.44	0.27	0.90	0.90	0.93	
16	*******	*******	*******	93.28	38.46	16.89	1.14	0.40	0.26	0.96	0.90	0.93	
17	*******	*******	*******	92.30	39.38	18.71	0.99	0.39	0.25	0.99	0.90	0.93	
18	*******	*******	*******	80.00	30.80	14.55	0.96	0.37	0.25	0.99	0.90	0.93	
19	*******	*******	*******	54.80	15.85	9.35	1.32	0.38	0.25	0.96	0.93	0.93	
20	*******	*******	*******	42.05	11.82	5.50	2.76	0.54	0.25	0.90	0.93	0.93	
21	*******	*******	*******	35.24	44.62	7.40	5.40	0.50	0.25	0.93	0.93	0.93	
22	*******	*******	*******	36.85	98.72	13.64	8.31	0.46	0.25	0.93	0.93	0.93	
23	*******	*******	*******	35.01	91.10	13.77	10.52	0.44	0.25	0.90	0.93	0.93	
24	*******	*******	0.22	19.10	84.20	15.20	6.70	0.38	0.25	0.90	0.93	0.93	
25	*******	*******	0.26	11.30	90.80	11.69	5.04	0.38	0.26	0.90	0.93	0.93	
26	*******	*******	0.46	11.56	80.30	49.56	5.13	0.37	0.28	0.90	0.93	0.93	
27	*******	*******	0.69	15.46	56.60	86.60	6.70	0.35	0.27	0.90	0.93	0.93	
28	*******	*******	0.60	8.83	20.67	92.94	5.70	0.33	0.27	0.90	0.93	0.93	
29	*******	*******	0.66	5.60	13.25	95.32	4.50	0.32	0.27	0.90		0.93	
30	*******	*******	0.60	3.96	8.57	85.10	3.54	0.28	0.26	0.99		0.93	
31		*******		2.76	6.00		2.88		0.25	0.99		0.93	
TOTAL	*******	*******	*******	659.09	1193.24	882.60	327.65	19.08	8.50	20.31	25.89	28.92	******** CMSDAY
MEAN	*******	*******	*******	21.26	38.49	29.42	10.57	0.64	0.27	0.66	0.92	0.93	******** CMS
MAX	*******	*******	0.69	93.28	100.08	95.32	74.60	2.22	0.33	0.99	0.99	1.02	100.08 CMS
MIN	*******	*******	*******	0.32	1.32	4.68	0.96	0.28	0.24	0.25	0.90	0.93	******** CMS
RUNOFF	*******	*******	*******	56.945	103.096	76.257	28.309	1.649	0.734	1.755	2.237	2.499	******** MCM

MOMENTARY PEAK 102.80 CMS, AT 6.80 M (A.D), AT 6.00 HOURS, ON AUG 7, 1982
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 233.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

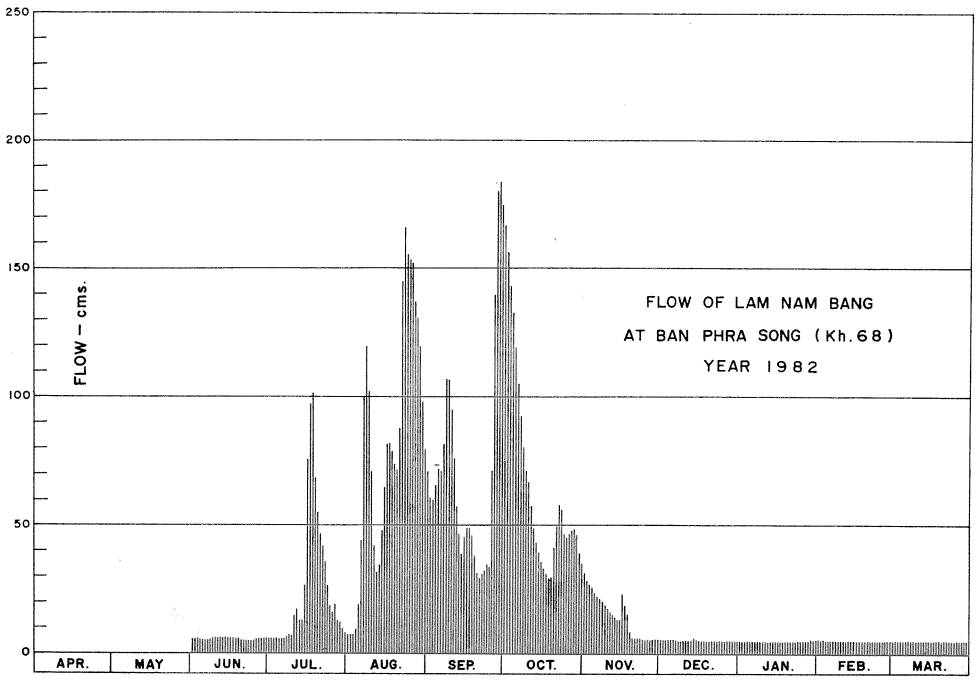
LAM NAM BANG AT BAN PHRA SONG, NAKHON PHANOM (KH.68)

LOCATION	LAT. 17°-00'-41" N., LONG. 104°-34'-19" E., ON LEFT BANK AT THE BRIDGE ON ROAD, BAN PHRA SONG, AMPHOE RENU NAKHON, NAKHON PHANOM.
DRAINAGE AREA	697 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+9.834 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JUN. 1, 1982. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	1.90	1.90	2.00	4.00	6.17	2.94	1.88	1.86	1.88	1.87	
2	*******	*******	1.90	1.91	2.00	3.75	5.91	2.86	1.88	1.86	1.88	1.87	
3	*******	*******	1.89	1.91	2.00	3.76	5.66	2.78	1.88	1.86	1.88	1.87	
4	*******	*******	1.88	1.90	2.11	3.91	5.39	2.73	1.88	1.87	1.87	1.87	
5	*******	*******	1.87	1.90	2.41	4.06	5.08	2.66	1.88	1.87	1.87	1.87	
6	*******	*******	1.87	1.89	3.30	4.05	4.81	2.59	1.88	1.87	1.87	1.87	
7	*******	*******	1.87	1.89	4.65	4.33	4.55	2.54	1.88	1.86	1.87	1.87	
8	*******	*******	1.88	1.94	5.13	4.85	4.29	2.49	1.87	1.86	1.87	1.87	
9	*******	*******	1.91	2.00	4.71	4.84	4.06	2.44	1.87	1.86	1.87	1.87	
10	*******	*******	1.94	1.97	4.18	4.70	3.96	2.40	1.87	1.86	1.87	1.87	
11	*******	*******	1.92	2.31	3.31	4.19	3.70	2.34	1.87	1.86	1.87	1.87	
12	*******	*******	1.93	2.39	2.95	3.80	3.50	2.31	1.86	1.86	1.87	1.87	
13	*******	*******	1.91	2.23	3.08	3.41	3.33	2.26	1.86	1.86	1.87	1.87	
14	*******	*******	1.91	2.22	3.42	3.17	3.20	2.24	1.88	1.86	1.87	1.87	
15	*******	*******	1.90	2.81	3.83	3.39	3.10	2.20	1.88	1.86	1.87	1.87	
16	*******	*******	1.90	4.07	4.27	3.47	3.01	2.63	1.87	1.86	1.87	1.87	
17	*******	*******	1.89	4.62	4.29	3.48	2.94	2.50	1.87	1.85	1.87	1.87	
18	*******	*******	1.89	4.72	4.23	3.39	2.86	2.28	1.87	1.85	1.87	1.87	
19	*******	*******	1.88	4.05	4.08	3.18	2.90	2.02	1.87	1.85	1.87	1.87	
20	*******	*******	1.87	3.65	4.02	2.98	3.25	1.90	1.86	1.85	1.87	1.87	
21	*******	*******	1.87	3.42	4.43	2.87	3.47	1.90	1.86	1.86	1.87	1.87	
22	*******	*******	1.86	3.28	5.58	2.92	3.70	1.90	1.86	1.86	1.87	1.87	
23	*******	*******	1.86	3.17	6.16	2.99	3.64	1.90	1.86	1.85	1.87	1.87	
24	*******	*******	1.86	2.88	5.94	3.05	3.41	1.88	1.86	1.86	1.87	1.87	
25	*******	*******	1.86	2.49	5.89	3.03	3.35	1.88	1.86	1.86	1.87	1.87	
26	*******	*******	1.90	2.32	5.85	4.33	3.40	1.88	1.86	1.86	1.87	1.87	
27	*******	*******	1.89	2.48	5.51	5.82	3.44	1.88	1.86	1.85	1.87	1.87	
28	*******	*******	1.89	2.20	5.38	6.49	3.46	1.88	1.86	1.87	1.87	1.87	
29	*******	*******	1.90	2.20	5.14	6.55	3.37	1.88	1.86	1.88		1.87	
30	*******	*******	1.89	2.08	4.70	6.39	3.21	1.88	1.86	1.88		1.87	
31		*******		2.02	4.24		3.07		1.86	1.88		1.87	
MEAN	*******	*******	1.89	2.61	4.15	4.04	3.84	2.27	1.87	1.86	1.87	1.87	
MAX	*******	*******	1.94	4.72	6.16	6.55	6.17	2.94	1.88	1.88	1.88	1.87	6.55
MIN	*******	*******	1.86	1.89	2.00	2.87	2.86	1.88	1.86	1.85	1.87	1.87	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.60 M (A.D), AT 18.00 HOURS, ON SEP 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.64 M (A.D)
LEFT BANK ELEVATION 9.67 M (A.D)
RIGHT BANK ELEVATION 9.64 M (A.D), DRAINAGE AREA 697 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	5.50	5.50	7.00	69.50	166.15	30.70	5.10	4.70	5.10	4.90	
2	*******	*******	5.50	5.65	7.00	59.50	154.45	28.50	5.10	4.70	5.10	4.90	
3	*******	*******	5.30	5.65	7.00	59.90	143.20	26.50	5.10	4.70	5.10	4.90	
4	*******	*******	5.10	5.50	9.75	65.90	131.05	25.25	5.10	4.90	4.90	4.90	
5	*******	*******	4.90	5.50	17.25	71.90	117.10	23.50	5.10	4.90	4.90	4.90	
6	*******	*******	4.90	5.30	42.70	71.50	104.95	21.75	5.10	4.90	4.90	4.90	
7	*******	*******	4.90	5.30	97.75	83.35	93.25	20.50	5.10	4.70	4.90	4.90	
8	*******	*******	5.10	6.10	119.35	106.75	81.55	19.25	4.90	4.70	4.90	4.90	
9	*******	*******	5.65	7.00	100.45	106.30	71.90	18.00	4.90	4.70	4.90	4.90	
10	*******	*******	6.10	6.55	76.70	100.00	67.90	17.00	4.90	4.70	4.90	4.90	
11	*******	*******	5.80	14.75	43.03	77.10	57.50	15.50	4.90	4.70	4.90	4.90	
12	*******	*******	5.95	16.75	31.00	61.50	49.50	14.75	4.70	4.70	4.90	4.90	
13	*******	*******	5.65	12.75	35.06	46.35	43.69	13.50	4.70	4.70	4.90	4.90	
14	*******	*******	5.65	12.50	46.70	38.15	39.20	13.00	5.10	4.70	4.90	4.90	
15	*******	*******	5.50	27.25	62.70	45.67	35.70	12.00	5.10	4.70	4.90	4.90	
16	*******	*******	5.50	72.30	80.65	48.45	32.82	22.75	4.90	4.70	4.90	4.90	
17	*******	*******	5.30	96.40	81.55	48.80	30.70	19.50	4.90	4.50	4.90	4.90	
18	*******	*******	5.30	100.90	78.85	45.67	28.50	14.00	4.90	4.50	4.90	4.90	
19	*******	*******	5.10	71.50	72.70	38.50	29.50	7.50	4.90	4.50	4.90	4.90	
20	*******	*******	4.90	55.50	70.30	31.90	40.95	5.50	4.70	4.50	4.90	4.90	
21	*******	*******	4.90	46.70	87.85	28.75	48.45	5.50	4.70	4.70	4.90	4.90	
22	*******	*******	4.70	42.00	139.60	30.10	57.50	5.50	4.70	4.70	4.90	4.90	
23	*******	*******	4.70	38.15	165.70	32.20	55.10	5.50	4.70	4.50	4.90	4.90	
24	*******	*******	4.70	29.00	155.80	34.10	46.35	5.10	4.70	4.70	4.90	4.90	
25	*******	*******	4.70	19.25	153.55	33.46	44.35	5.10	4.70	4.70	4.90	4.90	
26	*******	*******	5.50	15.00	151.75	83.35	46.00	5.10	4.70	4.70	4.90	4.90	
27	*******	*******	5.30	19.00	136.45	150.40	47.40	5.10	4.70	4.50	4.90	4.90	
28	*******	*******	5.30	12.00	130.60	180.55	48.10	5.10	4.70	4.90	4.90	4.90	
29	*******	*******	5.50	12.00	119.80	183.25	45.01	5.10	4.70	5.10		4.90	
30	*******	*******	5.30	9.00	100.00	176.05	39.55	5.10	4.70	5.10		4.90	
31		*******		7.50	79.30		34.74		4.70	5.10		4.90	
TOTAL	*******	*******	158.20	788.25	2507.89	2208.90	2032.11	421.15	150.90	146.50	137.80	151.90	******** CMSDAY
MEAN	*******	*******	5.27	25.43	80.90	73.63	65.55	14.04	4.87	4.73	4.92	4.90	******** CMS
MAX	*******	*******	6.10	100.90	165.70	183.25	166.15	30.70	5.10	5.10	5.10	4.90	183.25 CMS
MIN	*******	*******	4.70	5.30	7.00	28.75	28.50	5.10	4.70	4.50	4.90	4.90	******** CMS
RUNOFF	*******	*******	13.668	68.105	216.682	190.849	175.574	36.387	13.038	12.658	11.906	13.124	******** MCM

MOMENTARY PEAK 185.50 CMS, AT 6.60 M (A.D), AT 18.00 HOURS, ON SEP 28, 1982
RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 266.14 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

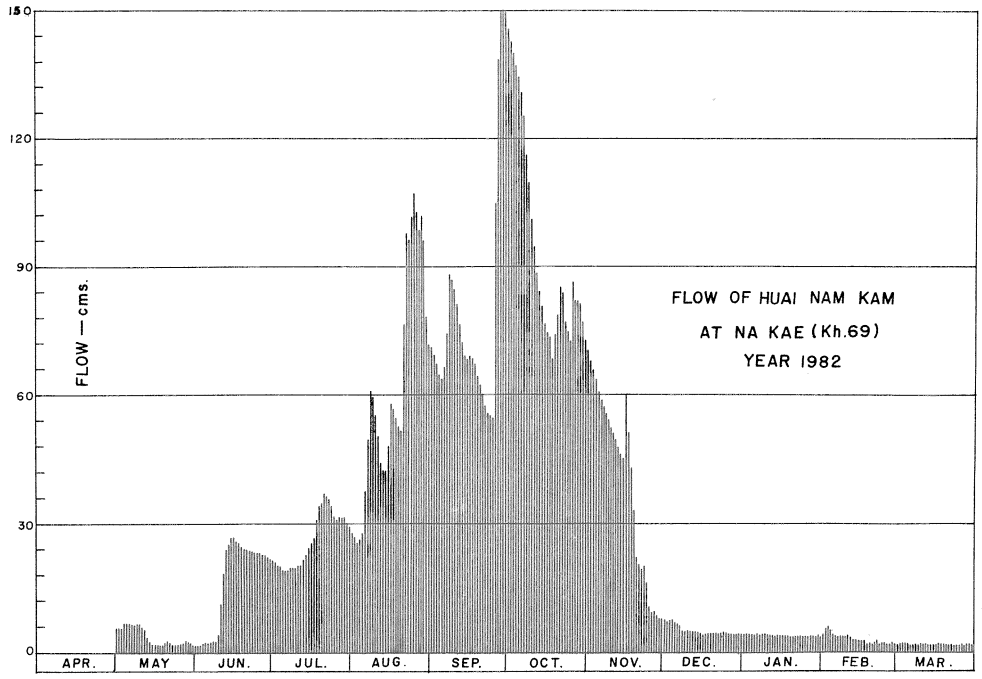
HUAI NAM KAM AT NA KAE, NAKHON PHANOM (KH.69)

LOCATION	LAT. 16-57-20 N., LONG. 104-30-32 E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN NA KAE, AMPHOE NA KAE, NAKHON PHANOM.
DRAINAGE AREA	2,214 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+9.389 M.(A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON MAY 1, 1982. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	1.54	1.23	2.28	2.51	3.77	5.68	3.76	1.61	1.41	1.38	1.22	
2	*******	1.54	1.24	2.27	2.47	3.74	5.61	3.68	1.60	1.41	1.50	1.22	
3	*******	1.54	1.24	2.24	2.43	3.67	5.54	3.63	1.59	1.41	1.54	1.22	
4	*******	1.57	1.23	2.22	2.49	3.61	5.49	3.57	1.58	1.40	1.43	1.22	
5	*******	1.57	1.23	2.20	2.55	3.60	5.42	3.51	1.57	1.40	1.39	1.22	
6	*******	1.56	1.26	2.18	2.83	3.67	5.31	3.45	1.55	1.40	1.37	1.22	
7	*******	1.55	1.26	2.18	3.22	4.07	5.15	3.40	1.52	1.40	1.37	1.22	
8	*******	1.56	1.30	2.19	3.50	4.27	4.92	3.34	1.48	1.40	1.37	1.22	
9	*******	1.56	1.27	2.20	3.44	4.21	4.75	3.29	1.46	1.40	1.37	1.21	
10	*******	1.55	1.40	2.20	3.30	4.16	4.55	3.23	1.46	1.40	1.37	1.21	
11	*******	1.55	1.83	2.21	3.17	4.06	4.38	3.19	1.46	1.39	1.36	1.20	
12	*******	1.51	2.16	2.24	2.98	3.92	4.23	3.15	1.44	1.39	1.34	1.19	
13	*******	1.39	2.35	2.29	2.96	3.81	4.12	3.10	1.43	1.39	1.32	1.18	
14	*******	1.28	2.35	2.33	2.96	3.71	4.03	3.08	1.42	1.39	1.29	1.18	
15	*******	1.23	2.44	2.38	3.14	3.70	3.94	3.08	1.42	1.39	1.28	1.18	
16	*******	1.22	2.45	2.42	3.42	3.72	3.87	3.47	1.42	1.39	1.27	1.18	
17	*******	1.21	2.42	2.49	3.37	3.70	3.79	3.20	1.42	1.39	1.26	1.18	
18	*******	1.20	2.41	2.68	3.30	3.65	3.72	2.93	1.42	1.39	1.24	1.18	
19	*******	1.20	2.39	2.74	3.25	3.59	3.90	2.64	1.42	1.38	1.24	1.18	
20	*******	1.31	2.38	2.77	3.22	3.51	4.03	2.31	1.42	1.38	1.24	1.18	
21	*******	1.29	2.37	2.81	3.95	3.45	4.18	2.18	1.42	1.38	1.27	1.18	
22	*******	1.26	2.36	2.77	4.50	3.37	4.15	2.17	1.42	1.38	1.26	1.18	
23	*******	1.24	2.35	2.74	4.45	3.35	3.96	2.19	1.42	1.38	1.24	1.18	
24	*******	1.23	2.35	2.68	4.60	3.39	3.89	1.98	1.42	1.38	1.24	1.18	
25	*******	1.23	2.33	2.63	4.73	3.32	3.82	1.82	1.42	1.38	1.24	1.18	
26	*******	1.22	2.35	2.62	4.62	5.21	4.22	1.76	1.41	1.38	1.23	1.19	
27	*******	1.22	2.32	2.64	4.52	5.67	4.09	1.72	1.41	1.38	1.23	1.20	
28	*******	1.30	2.31	2.63	4.60	5.77	4.08	1.67	1.41	1.38	1.22	1.21	
29	*******	1.32	2.31	2.63	4.38	5.78	4.07	1.65	1.41	1.38		1.20	
30	*******	1.26	2.29	2.59	3.96	5.77	3.95	1.62	1.41	1.38		1.19	
31		1.24		2.55	3.80		3.83		1.41	1.38		1.18	
MEAN	*******	1.37	1.97	2.45	3.50	4.04	4.41	2.79	1.46	1.39	1.32	1.20	
MAX	*******	1.57	2.45	2.81	4.73	5.78	5.68	3.76	1.61	1.41	1.54	1.22	5.78
MIN	*******	1.20	1.23	2.18	2.43	3.32	3.72	1.62	1.41	1.38	1.22	1.18	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.84 M (A.D), AT 18.00 HOURS, ON SEP 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.93 M (A.D)
LEFT BANK ELEVATION 6.17 M (A.D)
RIGHT BANK ELEVATION 6.19 M (A.D), DRAINAGE AREA 2214 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	5.95	1.80	21.75	27.52	70.45	145.20	70.10	7.17	3.90	3.50	1.70	
2	*******	5.95	1.90	21.50	26.50	69.40	142.40	67.30	7.00	3.90	5.25	1.70	
3	*******	5.95	1.90	20.75	25.50	66.95	139.60	65.55	6.83	3.90	5.95	1.70	
4	*******	6.48	1.80	20.25	27.00	64.85	137.60	63.45	6.65	3.75	4.20	1.70	
5	*******	6.48	1.80	19.75	28.62	64.50	134.80	61.35	6.48	3.75	3.63	1.70	
6	*******	6.30	2.10	19.25	37.55	66.95	130.40	59.25	6.12	3.75	3.38	1.70	
7	*******	6.12	2.10	19.25	51.20	80.95	124.00	57.50	5.60	3.75	3.38	1.70	
8	*******	6.30	2.50	19.50	61.00	88.80	114.80	55.40	4.95	3.75	3.38	1.70	
9	*******	6.30	2.20	19.75	58.90	86.40	108.00	53.65	4.65	3.75	3.38	1.60	
10	*******	6.12	3.75	19.75	54.00	84.40	100.00	51.55	4.65	3.75	3.38	1.60	
11	*******	6.12	11.10	20.00	49.45	80.60	93.20	50.15	4.65	3.63	3.25	1.50	
12	*******	5.42	18.75	20.75	42.80	75.70	87.20	48.75	4.35	3.63	3.00	1.43	
13	*******	3.63	23.50	22.00	42.10	71.85	82.80	47.00	4.20	3.63	2.75	1.35	
14	*******	2.30	23.50	23.00	42.10	68.35	79.55	46.30	4.05	3.63	2.40	1.35	
15	*******	1.80	25.75	24.25	48.40	68.00	76.40	46.30	4.05	3.63	2.30	1.35	
16	*******	1.70	26.00	25.25	58.20	68.70	73.95	59.95	4.05	3.63	2.20	1.35	
17	*******	1.60	25.25	27.00	56.45	68.00	71.15	50.50	4.05	3.63	2.10	1.35	
18	*******	1.50	25.00	32.40	54.00	66.25	68.70	41.05	4.05	3.63	1.90	1.35	
19	*******	1.50	24.50	34.40	52.25	64.15	75.00	31.20	4.05	3.50	1.90	1.35	
20	*******	2.62	24.25	35.45	51.20	61.35	79.55	22.50	4.05	3.50	1.90	1.35	
21	*******	2.40	24.00	36.85	76.75	59.25	85.20	19.25	4.05	3.50	2.20	1.35	
22	*******	2.10	23.75	35.45	98.00	56.45	84.00	19.00	4.05	3.50	2.10	1.35	
23	*******	1.90	23.50	34.40	96.00	55.75	77.10	19.50	4.05	3.50	1.90	1.35	
24	*******	1.80	23.50	32.40	102.00	57.15	74.65	14.30	4.05	3.50	1.90	1.35	
25	*******	1.80	23.00	30.90	107.20	54.70	72.20	10.90	4.05	3.50	1.90	1.35	
26	*******	1.70	23.50	30.60	102.80	126.40	86.80	9.80	3.90	3.50	1.80	1.43	
27	*******	1.70	22.75	31.20	98.80	144.80	81.65	9.10	3.90	3.50	1.80	1.50	
28	*******	2.50	22.50	30.90	102.00	149.15	81.30	8.22	3.90	3.50	1.70	1.60	
29	*******	2.75	22.50	30.90	93.20	149.60	80.95	7.87	3.90	3.50		1.50	
30	*******	2.10	22.00	29.72	77.10	149.15	76.75	7.35	3.90	3.50		1.43	
31		1.90		28.62	71.50		72.55		3.90	3.50		1.35	
TOTAL	*******	112.79	480.45	817.94	1920.09	2439.00	2937.45	1174.09	145.30	112.49	78.43	46.09	******** CMSDAY
MEAN	*******	3.64	16.02	26.39	61.94	81.30	94.76	39.14	4.69	3.63	2.80	1.49	******** CMS
MAX	*******	6.48	26.00	36.85	107.20	149.60	145.20	70.10	7.17	3.90	5.95	1.70	149.60 CMS
MIN	*******	1.50	1.80	19.25	25.50	54.70	68.70	7.35	3.90	3.50	1.70	1.35	******** CMS
RUNOFF	*******	9.745	41.511	70.670	165.896	210.730	253.796	101.441	12.554	9.719	6.776	3.982	******** MCM

MOMENTARY PEAK 160.00 CMS, AT 5.84 M (A.D), AT 18.00 HOURS, ON SEP 27, 1982

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

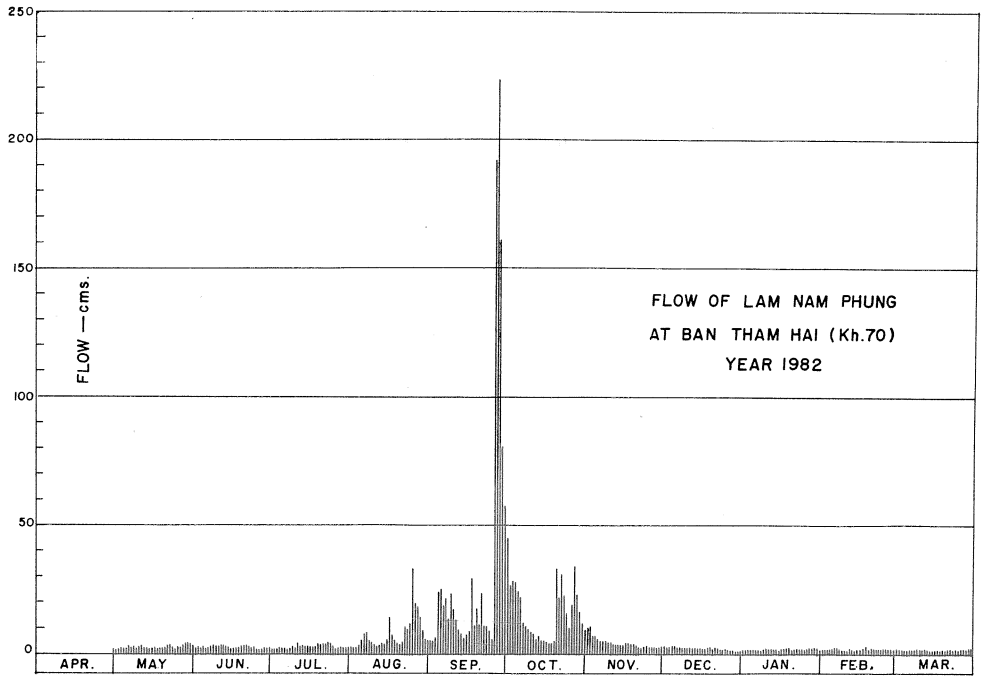
HUAI NAM PHUNG AT BAN THAM HAI, SAKON NAKHON (KH.70)

LOCATION	LAT. 17°-04'-04" N., LONG. 104°-15'-33" E., ON RIGHT BANK AT THE BRIDGE ON ROAD, BAN THAM HAI, AMPHOE MUANG, SAKON NAKHON.
DRAINAGE AREA	848 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.573 M.(A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON MAY 1, 1982. DATA MISSING FOR GAGE HEIGHT DURING AUG. 26-31,1982. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.40	0.46	0.40	0.43	0.65	2.14	0.93	0.44	0.40	0.37	0.39	
2	*******	0.41	0.44	0.39	0.43	0.65	1.64	0.95	0.45	0.40	0.38	0.38	
3	*******	0.40	0.43	0.38	0.43	0.78	1.66	0.77	0.44	0.39	0.38	0.37	
4	*******	0.42	0.42	0.38	0.47	1.56	1.66	0.72	0.44	0.40	0.38	0.38	
5	*******	0.42	0.43	0.38	0.74	1.59	1.50	0.68	0.43	0.40	0.38	0.39	
6	*******	0.43	0.46	0.39	0.86	1.32	1.42	0.66	0.43	0.40	0.38	0.38	
7	*******	0.42	0.48	0.39	0.82	1.44	1.03	0.66	0.41	0.39	0.38	0.38	
8	*******	0.42	0.50	0.47	0.61	1.06	0.96	0.62	0.43	0.39	0.38	0.39	
9	*******	0.43	0.48	0.48	0.54	1.53	0.88	0.59	0.43	0.39	0.38	0.39	
10	*******	0.44	0.46	0.45	0.55	1.21	0.88	0.59	0.42	0.38	0.38	0.39	
11	*******	0.44	0.53	0.65	0.48	1.10	0.81	0.57	0.42	0.38	0.38	0.38	
12	*******	0.43	0.45	0.47	0.53	0.89	0.74	0.55	0.42	0.38	0.38	0.38	
13	*******	0.41	0.48	0.46	0.50	0.78	0.76	0.55	0.41	0.38	0.37	0.38	
14	*******	0.40	0.43	0.46	0.53	0.69	0.69	0.52	0.40	0.37	0.37	0.39	
15	*******	0.39	0.42	0.47	0.61	0.87	0.67	0.53	0.40	0.37	0.37	0.38	
16	*******	0.40	0.42	0.47	1.16	0.89	0.65	0.61	0.40	0.37	0.41	0.38	
17	*******	0.38	0.42	0.46	0.74	1.72	0.60	0.60	0.41	0.37	0.49	0.38	
18	*******	0.34	0.42	0.51	0.68	1.03	0.59	0.57	0.40	0.37	0.50	0.38	
19	*******	0.34	0.45	0.55	0.59	1.32	0.70	0.56	0.40	0.37	0.41	0.38	
20	*******	0.35	0.53	0.54	0.54	1.01	1.85	0.52	0.41	0.37	0.41	0.38	
21	*******	0.44	0.48	0.57	0.61	1.53	1.44	0.46	0.40	0.37	0.39	0.38	
22	*******	0.56	0.44	0.55	1.00	0.98	1.79	0.48	0.39	0.37	0.38	0.38	
23	*******	0.41	0.43	0.60	0.95	0.98	1.45	0.47	0.39	0.37	0.39	0.38	
24	*******	0.39	0.41	0.46	1.16	0.89	1.13	0.46	0.39	0.37	0.39	0.38	
25	*******	0.42	0.41	0.43	1.86	0.75	0.95	0.46	0.39	0.37	0.39	0.38	
26	*******	0.48	0.39	0.43	1.36	5.01	1.43	0.46	0.39	0.37	0.39	0.38	
27	*******	0.50	0.36	0.46	1.34	5.41	1.87	0.45	0.40	0.37	0.39	0.38	
28	*******	0.59	0.37	0.45	1.18	4.07	1.41	0.45	0.39	0.37	0.38	0.38	
29	*******	0.55	0.38	0.43	0.91	2.77	1.21	0.44	0.40	0.37		0.38	
30	*******	0.55	0.38	0.43	0.74	2.61	1.01	0.44	0.39	0.37		0.38	
31		0.48		0.44	0.68		0.94		0.39	0.37		0.38	
MEAN	*******	0.43	0.44	0.46	0.78	1.57	1.18	0.58	0.41	0.38	0.39	0.38	
MAX	*******	0.59	0.53	0.65	1.86	5.41	2.14	0.95	0.45	0.40	0.50	0.39	5.41
MIN	*******	0.34	0.36	0.38	0.43	0.65	0.59	0.44	0.39	0.37	0.37	0.37	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.52 M (A.D), AT 18.00 HOURS, ON SEP 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 9.24 M (A.D)
RIGHT BANK ELEVATION 6.55 M (A.D), DRAINAGE AREA 848 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	1.75	2.35	1.75	2.05	4.63	43.28	9.30	2.15	1.75	1.52	1.67	
2	*******	1.85	2.15	1.67	2.05	4.63	26.82	9.70	2.25	1.75	1.60	1.60	
3	*******	1.75	2.05	1.60	2.05	6.41	27.38	6.26	2.15	1.67	1.60	1.52	
4	*******	1.95	1.95	1.60	2.45	24.62	27.38	5.54	2.15	1.75	1.60	1.60	
5	*******	1.95	2.05	1.60	5.83	25.43	23.00	5.00	2.05	1.75	1.60	1.67	
6	*******	2.05	2.35	1.67	7.90	18.30	20.84	4.75	2.05	1.75	1.60	1.60	
7	*******	1.95	2.55	1.67	7.10	21.38	11.39	4.75	1.85	1.67	1.60	1.60	
8	*******	1.95	2.75	2.45	4.13	12.08	9.90	4.25	2.05	1.67	1.60	1.67	
9	*******	2.05	2.55	2.55	3.25	23.81	8.30	3.87	2.05	1.67	1.60	1.67	
10	*******	2.15	2.35	2.25	3.38	15.55	8.30	3.87	1.95	1.60	1.60	1.67	
11	*******	2.15	3.12	4.63	2.55	13.00	6.90	3.63	1.95	1.60	1.60	1.60	
12	*******	2.05	2.25	2.45	3.12	8.50	5.83	3.38	1.95	1.60	1.60	1.60	
13	*******	1.85	2.55	2.35	2.75	6.41	6.12	3.38	1.85	1.60	1.52	1.60	
14	*******	1.75	2.05	2.35	3.12	5.13	5.13	3.00	1.75	1.52	1.52	1.67	
15	*******	1.67	1.95	2.45	4.13	8.10	4.88	3.12	1.75	1.52	1.52	1.60	
16	*******	1.75	1.95	2.45	14.38	8.50	4.63	4.13	1.75	1.52	1.85	1.60	
17	*******	1.60	1.95	2.35	5.83	29.10	4.00	4.00	1.85	1.52	2.65	1.60	
18	*******	1.30	1.95	2.88	5.00	11.39	3.87	3.63	1.75	1.52	2.75	1.60	
19	*******	1.30	2.25	3.38	3.87	18.30	5.25	3.50	1.75	1.52	1.85	1.60	
20	*******	1.37	3.12	3.25	3.25	10.93	33.22	3.00	1.85	1.52	1.85	1.60	
21	*******	2.15	2.55	3.63	4.13	23.81	21.38	2.35	1.75	1.52	1.67	1.60	
22	*******	3.50	2.15	3.38	10.70	10.30	31.20	2.55	1.67	1.52	1.60	1.60	
23	*******	1.85	2.05	4.00	9.70	10.30	21.65	2.45	1.67	1.52	1.67	1.60	
24	*******	1.67	1.85	2.35	14.38	8.50	13.69	2.35	1.67	1.52	1.67	1.60	
25	*******	1.95	1.85	2.05	33.56	5.98	9.70	2.35	1.67	1.52	1.67	1.60	
26	*******	2.55	1.67	2.05	19.30	196.15	21.11	2.35	1.67	1.52	1.67	1.60	
27	*******	2.75	1.45	2.35	18.80	222.15	33.90	2.25	1.75	1.52	1.67	1.60	
28	*******	3.87	1.52	2.25	14.84	139.20	20.57	2.25	1.67	1.52	1.60	1.60	
29	*******	3.38	1.60	2.05	8.90	70.00	15.55	2.15	1.75	1.52		1.60	
30	*******	3.38	1.60	2.05	5.83	62.45	10.93	2.15	1.67	1.52		1.60	
31		2.55		2.15	5.00		9.50		1.67	1.52		1.60	
TOTAL	*******	65.79	64.53	75.66	233.33	1025.04	495.60	115.26	57.51	49.19	47.85	49.94	******** CMSDAY
MEAN	*******	2.12	2.15	2.44	7.53	34.17	15.99	3.84	1.86	1.59	1.71	1.61	******** CMS
MAX	*******	3.87	3.12	4.63	33.56	222.15	43.28	9.70	2.25	1.75	2.75	1.67	222.15 CMS
MIN	*******	1.30	1.45	1.60	2.05	4.63	3.87	2.15	1.67	1.52	1.52	1.52	******** CMS
RUNOFF	*******	5.684	5.575	6.537	20.160	88.563	42.820	9.958	4.969	4.250	4.134	4.315	******** MCM

MOMENTARY PEAK 229.30 CMS, AT 5.52 M (A.D), AT 18.00 HOURS, ON SEP 26, 1982
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 270.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

KHONG RIVER BASIN

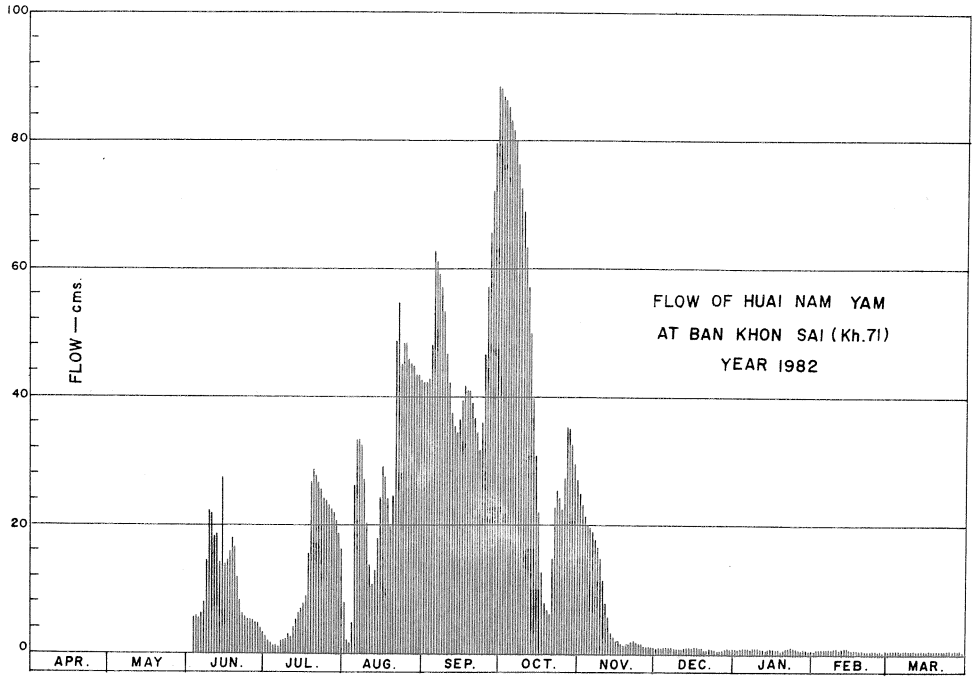
HUAI NAM YAM AT BAN KHON SAI, SAKON NAKHON (KH.71)

LOCATION	LAT. 17°-33'-20" N., LONG. 103°-44'-18" E., ON LEFT BANK AT THE BRIDGE OF WANON NIWAT - PHANG KHON, ABOUT 10 KILOMETERS FROM WANON NIWAT, SAKON NAKHON.
DRAINAGE AREA	777 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+10.517 M.(A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON JUN. 3, 1982. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	1.50	2.06	4.65	6.55	3.66	1.04	0.96	0.88	0.85	
2	*******	*******	*******	1.38	1.45	4.67	6.53	3.54	1.04	0.96	0.88	0.86	
3	*******	*******	2.01	1.26	1.30	4.70	6.50	3.41	1.04	0.96	0.88	0.86	
4	*******	*******	2.02	1.17	2.06	5.20	6.47	3.28	1.04	0.95	0.87	0.86	
5	*******	*******	2.00	1.12	3.95	5.58	6.41	3.27	1.04	0.95	0.87	0.87	
6	*******	*******	2.10	1.12	4.20	5.50	6.34	3.25	1.03	0.95	0.87	0.87	
7	*******	*******	2.36	1.41	4.20	5.41	6.25	3.14	1.03	0.95	0.87	0.87	
8	*******	*******	3.11	1.42	4.11	5.31	6.08	3.03	1.02	0.94	0.86	0.86	
9	*******	*******	3.50	1.48	3.72	5.06	5.94	2.85	1.02	0.94	0.86	0.86	
10	*******	*******	3.43	1.60	3.20	4.83	5.81	2.62	1.02	0.94	0.86	0.86	
11	*******	*******	3.17	1.54	2.70	4.64	5.57	2.25	1.02	0.94	0.86	0.85	
12	*******	*******	3.19	1.82	2.54	4.41	5.32	1.92	1.01	0.93	0.86	0.85	
13	*******	*******	2.84	1.99	2.81	4.28	4.92	1.69	1.00	0.93	0.85	0.85	
14	*******	*******	3.83	2.08	3.17	4.25	4.45	1.46	1.00	0.93	0.85	0.85	
15	*******	*******	2.85	2.21	3.67	4.44	3.99	1.37	1.00	0.93	0.85	0.85	
16	*******	*******	2.88	2.29	3.93	4.53	3.43	1.27	1.00	0.92	0.85	0.84	
17	*******	*******	3.02	2.46	3.80	4.60	2.65	1.24	0.99	0.92	0.85	0.84	
18	*******	*******	3.15	3.19	3.55	4.59	2.24	1.18	0.98	0.92	0.85	0.84	
19	*******	*******	3.10	3.85	3.32	4.59	2.10	1.15	0.98	0.92	0.85	0.84	
20	*******	*******	2.69	3.92	3.79	4.47	2.07	1.33	0.97	0.91	0.85	0.83	
21	*******	*******	2.21	3.85	5.07	4.37	2.86	1.34	0.97	0.91	0.84	0.83	
22	*******	*******	2.02	3.77	5.33	4.19	3.64	1.36	0.97	0.91	0.84	0.83	
23	*******	*******	1.99	3.68	4.81	4.09	3.67	1.35	0.97	0.90	0.84	0.83	
24	*******	*******	1.96	3.60	4.96	4.60	3.60	1.28	0.97	0.90	0.84	0.83	
25	*******	*******	1.94	3.57	4.97	5.00	3.49	1.22	0.96	0.90	0.84	0.83	
26	*******	*******	1.92	3.52	4.83	5.42	4.02	1.17	0.96	0.90	0.84	0.82	
27	*******	*******	1.90	3.49	4.80	5.77	4.29	1.13	0.96	0.89	0.85	0.82	
28	*******	*******	1.87	3.44	4.78	6.06	4.27	1.10	0.96	0.89	0.85	0.82	
29	*******	*******	1.75	3.35	4.71	6.38	4.14	1.07	0.96	0.89		0.83	
30	*******	*******	1.63	3.20	4.71	6.57	4.01	1.05	0.96	0.89		0.83	
31		*******		2.83	4.66		3.83		0.96	0.88		0.83	
MEAN	*******	*******	*******	2.49	3.78	4.94	4.56	1.97	1.00	0.92	0.86	0.84	
MAX	*******	*******	3.83	3.92	5.33	6.57	6.55	3.66	1.04	0.96	0.88	0.87	6.57
MIN	*******	*******	*******	1.12	1.30	4.09	2.07	1.05	0.96	0.88	0.84	0.82	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.58 M (A.D), AT 24.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.37 M (A.D)
LEFT BANK ELEVATION 10.53 M (A.D)
RIGHT BANK ELEVATION 10.52 M (A.D), DRAINAGE AREA 777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	*******	*******	2.20	5.88	42.00	87.50	24.90	0.68	0.52	0.36	0.30	
2	*******	*******	*******	1.72	2.00	42.40	86.90	23.10	0.68	0.52	0.36	0.32	
3	*******	*******	5.48	1.28	1.40	43.00	86.00	21.30	0.68	0.52	0.36	0.32	
4	*******	*******	5.56	1.01	5.88	53.61	85.10	19.57	0.68	0.50	0.34	0.32	
5	*******	*******	5.40	0.86	29.25	62.78	83.30	19.43	0.68	0.50	0.34	0.34	
6	*******	*******	6.20	0.86	33.60	60.85	81.50	19.17	0.66	0.50	0.34	0.34	
7	*******	*******	8.60	1.84	33.60	58.68	79.25	17.70	0.66	0.50	0.34	0.34	
8	*******	*******	17.30	1.88	31.98	56.27	75.00	16.23	0.64	0.48	0.32	0.32	
9	*******	*******	22.50	2.12	25.80	50.32	71.50	13.87	0.64	0.48	0.32	0.32	
10	*******	*******	21.57	2.80	18.50	45.60	68.33	11.20	0.64	0.48	0.32	0.32	
11	*******	*******	18.10	2.44	12.00	41.80	62.54	7.50	0.64	0.48	0.32	0.30	
12	*******	*******	18.37	4.12	10.40	37.38	56.51	4.76	0.62	0.46	0.32	0.30	
13	*******	*******	13.75	5.32	13.37	35.04	47.40	3.34	0.60	0.46	0.30	0.30	
14	*******	*******	27.45	6.04	18.10	34.50	38.10	2.04	0.60	0.46	0.30	0.30	
15	*******	*******	13.87	7.10	25.05	37.92	29.85	1.68	0.60	0.46	0.30	0.30	
16	*******	*******	14.25	7.90	28.95	39.60	21.57	1.31	0.60	0.44	0.30	0.28	
17	*******	*******	16.10	9.60	27.00	41.00	11.50	1.22	0.58	0.44	0.30	0.28	
18	*******	*******	17.83	18.37	23.25	40.80	7.40	1.04	0.56	0.44	0.30	0.28	
19	*******	*******	17.17	27.75	20.10	40.80	6.20	0.95	0.56	0.44	0.30	0.28	
20	*******	*******	11.90	28.80	26.85	38.46	5.96	1.52	0.54	0.42	0.30	0.26	
21	*******	*******	7.10	27.75	50.54	36.66	14.00	1.56	0.54	0.42	0.28	0.26	
22	*******	*******	5.56	26.55	56.75	33.42	24.60	1.64	0.54	0.42	0.28	0.26	
23	*******	*******	5.32	25.20	45.20	31.62	25.05	1.60	0.54	0.40	0.28	0.26	
24	*******	*******	5.08	24.00	48.20	41.00	24.00	1.34	0.54	0.40	0.28	0.26	
25	*******	*******	4.92	23.55	48.40	49.00	22.37	1.16	0.52	0.40	0.28	0.26	
26	*******	*******	4.76	22.80	45.60	58.92	30.36	1.01	0.52	0.40	0.28	0.24	
27	*******	*******	4.60	22.37	45.00	67.36	35.22	0.89	0.52	0.38	0.30	0.24	
28	*******	*******	4.42	21.70	44.60	74.50	34.86	0.80	0.52	0.38	0.30	0.24	
29	*******	*******	3.70	20.50	43.20	82.50	32.52	0.74	0.52	0.38		0.26	
30	*******	*******	2.98	18.50	43.20	88.10	30.18	0.70	0.52	0.38		0.26	
31		*******		13.62	42.20		27.45		0.52	0.36		0.26	
TOTAL	*******	*******	*******	380.55	905.85	1465.89	1392.02	223.27	18.34	13.82	8.72	8.92	******** CMSDAY
MEAN	*******	*******	*******	12.28	29.22	48.86	44.90	7.44	0.59	0.45	0.31	0.29	******** CMS
MAX	*******	*******	27.45	28.80	56.75	88.10	87.50	24.90	0.68	0.52	0.36	0.34	88.10 CMS
MIN	*******	*******	*******	0.86	1.40	31.62	5.96	0.70	0.52	0.36	0.28	0.24	******** CMS
RUNOFF	*******	*******	*******	32.880	78.265	126.653	120.271	19.291	1.585	1.194	0.753	0.771	******** MCM

MOMENTARY PEAK 88.40 CMS, AT 6.58 M (A.D), AT 24.00 HOURS, ON SEP 30, 1982
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 113.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

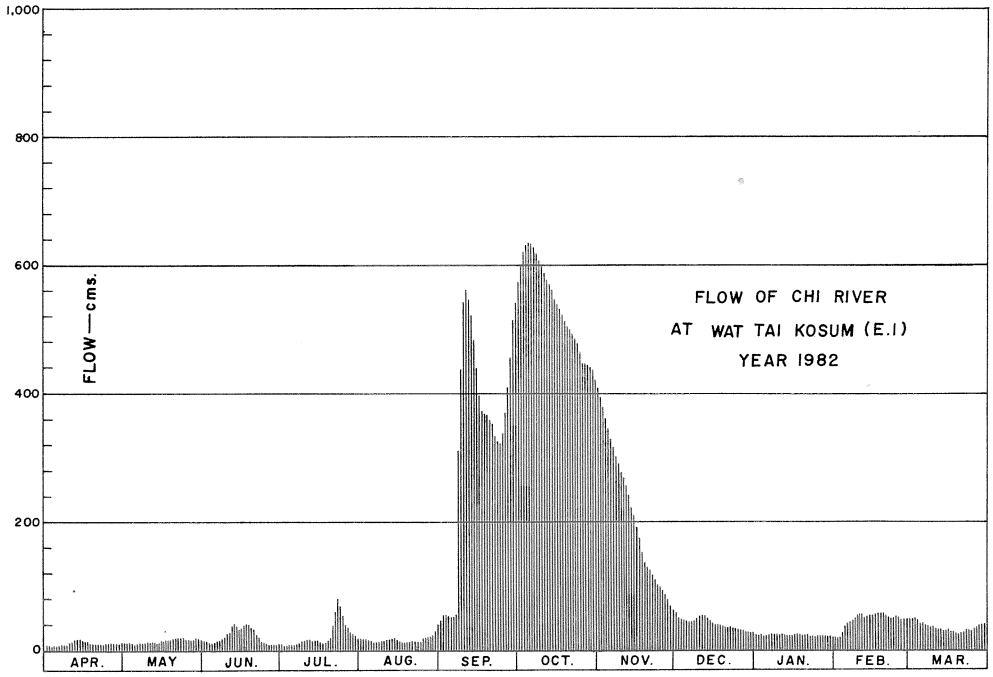
CHI RIVER AT KOSUM PHISAI, MAHA SARAKHAM (E.1)

LOCATION	LAT. 16°-15'-02" N., LONG. 103°-04'-25" E., ON RIGHT BANK, AT WAT TAI KOSUM ABOUT 800 METERS NORTH-EAST OF AMPHOE KOSUM PHISAI OFFICE, MAHA SARAKHAM.
DRAINAGE AREA	29,788 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+136.64 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 5 METERS FROM THE GAGE SITE.
ELEVATION	+149.116 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1936-1943, 1951 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1973, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY NAM PHONG DAM ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.83	136.98	137.09	136.84	137.17	137.84	144.45	142.65	138.02	137.33	137.24	137.85	
2	136.78	137.00	137.06	136.82	137.16	138.00	144.72	142.48	137.93	137.32	137.21	137.85	
3	136.75	136.98	137.05	136.81	137.11	138.02	144.92	142.30	137.85	137.31	137.24	137.86	
4	136.74	136.98	137.02	136.79	137.11	137.94	145.01	142.12	137.82	137.31	137.41	137.81	
5	136.75	136.97	137.03	136.80	137.05	137.92	145.04	141.95	137.81	137.29	137.64	137.73	
6	136.78	136.94	137.06	136.84	136.98	137.92	145.02	141.76	137.80	137.31	137.74	137.68	
7	136.80	136.92	137.13	136.88	137.03	138.06	144.96	141.58	137.79	137.32	137.78	137.64	
8	136.82	136.94	137.16	136.91	137.00	141.78	144.88	141.45	137.83	137.34	137.83	137.62	
9	136.89	137.01	137.22	136.93	137.01	143.77	144.77	141.33	137.91	137.35	137.88	137.60	
10	137.03	137.03	137.35	137.06	137.04	144.24	144.67	141.16	137.94	137.33	137.94	137.58	
11	137.07	137.04	137.44	137.11	137.10	144.31	144.55	141.01	137.94	137.31	137.98	137.56	
12	137.11	137.01	137.67	137.13	137.12	144.17	144.48	140.86	137.94	137.29	137.94	137.53	
13	137.17	136.98	137.71	137.08	137.18	143.87	144.41	140.71	137.86	137.30	137.93	137.51	
14	137.16	136.99	137.61	137.02	137.19	143.45	144.31	140.52	137.77	137.28	137.94	137.48	
15	137.09	137.05	137.51	137.01	137.10	142.95	144.19	140.31	137.74	137.27	137.94	137.45	
16	137.01	137.09	137.61	136.97	137.08	142.52	144.09	140.06	137.68	137.30	137.95	137.43	
17	136.96	137.09	137.71	136.96	137.08	142.25	143.99	139.79	137.65	137.31	137.99	137.40	
18	136.94	137.07	137.71	136.95	137.03	142.17	143.90	139.54	137.63	137.33	137.98	137.37	
19	136.93	137.07	137.63	136.98	137.00	142.19	143.81	139.33	137.62	137.31	137.98	137.33	
20	136.93	137.14	137.47	137.25	137.04	142.13	143.72	139.21	137.60	137.29	137.91	137.31	
21	136.93	137.16	137.30	137.62	137.09	142.03	143.64	139.15	137.58	137.30	137.87	137.34	
22	136.93	137.14	137.16	138.10	137.09	141.82	143.57	139.04	137.57	137.28	137.86	137.42	
23	136.93	137.17	137.05	138.43	137.06	141.70	143.48	138.91	137.55	137.29	137.89	137.48	
24	136.92	137.19	136.99	138.22	137.09	141.68	143.36	138.79	137.53	137.30	137.90	137.51	
25	136.92	137.17	136.95	137.95	137.18	141.98	143.19	138.72	137.50	137.28	137.88	137.50	
26	137.01	137.14	136.92	137.69	137.25	142.44	143.03	138.65	137.48	137.27	137.83	137.52	
27	137.01	137.13	136.88	137.54	137.27	142.85	143.04	138.53	137.45	137.26	137.82	137.60	
28	136.99	137.14	136.86	137.42	137.29	143.30	143.02	138.38	137.42	137.25	137.82	137.64	
29	136.96	137.20	136.86	137.34	137.32	143.89	142.99	138.25	137.39	137.25		137.69	
30	136.94	137.19	136.86	137.29	137.50	144.21	142.91	138.13	137.36	137.24		137.71	
31		137.14		137.19	137.67		142.80		137.34	137.26		137.64	
MEAN	136.94	137.07	137.24	137.22	137.14	141.71	144.03	140.22	137.69	137.30	137.80	137.57	
MAX	137.17	137.20	137.71	138.43	137.67	144.31	145.04	142.65	138.02	137.35	137.99	137.86	145.04
MIN	136.74	136.92	136.86	136.79	136.98	137.84	142.80	138.13	137.34	137.24	137.21	137.31	136.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 145.05 M (MSL), AT 6.00 HOURS, ON OCT 5, 1982
ZERO GAGE AT BOTTOM ELEVATION 136.64 M (MSL), RIVER BED 136.29 M (MSL)
LEFT BANK ELEVATION 147.21 M (MSL)
RIGHT BANK ELEVATION 150.31 M (MSL), DRAINAGE AREA 29788 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.6	12.4	15.7	8.8	18.8	48.8	575.0	409.5	58.4	25.2	21.6	49.3	
2	7.6	13.0	14.8	8.4	18.4	57.3	602.0	394.2	53.6	24.8	20.4	49.3	
3	7.0	12.4	14.5	8.2	16.4	58.4	622.0	378.0	49.3	24.4	21.6	49.9	
4	6.8	12.4	13.6	7.8	16.4	54.1	631.0	361.8	47.7	24.4	28.4	47.2	
5	7.0	12.1	13.9	8.0	14.5	53.1	634.0	346.5	47.2	23.6	38.1	42.9	
6	7.6	11.2	14.8	8.8	12.4	53.1	632.0	329.4	46.7	24.4	43.5	40.3	
7	8.0	10.6	17.2	9.6	13.9	60.5	626.0	313.2	46.1	24.8	45.6	38.1	
8	8.4	11.2	18.4	10.3	13.0	331.2	618.0	302.1	48.3	25.6	48.3	37.1	
9	9.8	13.3	20.8	10.9	13.3	510.3	607.0	292.6	52.5	26.0	50.9	36.0	
10	13.9	13.9	26.0	14.8	14.2	554.0	597.0	279.2	54.1	25.2	54.1	35.2	
11	15.1	14.2	29.6	16.4	16.0	561.0	585.0	267.4	54.1	24.4	56.3	34.4	
12	16.4	13.3	39.7	17.2	16.8	547.0	578.0	255.6	54.1	23.6	54.1	33.2	
13	18.8	12.4	41.9	15.4	19.2	519.3	571.0	243.7	49.9	24.0	53.6	32.4	
14	18.4	12.7	36.5	13.6	19.6	481.5	561.0	228.8	45.1	23.2	54.1	31.2	
15	15.7	14.5	32.4	13.3	16.0	436.5	549.0	212.2	43.5	22.8	54.1	30.0	
16	13.3	15.7	36.5	12.1	15.4	397.8	539.1	192.5	40.3	24.0	54.7	29.2	
17	11.8	15.7	41.9	11.8	15.4	373.5	530.1	171.3	38.7	24.4	56.8	28.0	
18	11.2	15.1	41.9	11.5	13.9	366.3	522.0	153.8	37.6	25.2	56.3	26.8	
19	10.9	15.1	37.6	12.4	13.0	368.1	513.9	139.1	37.1	24.4	56.3	25.2	
20	10.9	17.6	30.8	22.0	14.2	362.7	505.8	130.7	36.0	23.6	52.5	24.4	
21	10.9	18.4	24.0	37.1	15.7	353.7	498.6	126.5	35.2	24.0	50.4	25.6	
22	10.9	17.6	18.4	62.7	15.7	334.8	492.3	118.8	34.8	23.2	49.9	28.8	
23	10.9	18.8	14.5	81.8	14.8	324.0	484.2	110.6	34.0	23.6	51.5	31.2	
24	10.6	19.6	12.7	69.2	15.7	322.2	473.4	103.4	33.2	24.0	52.0	32.4	
25	10.6	18.8	11.5	54.7	19.2	349.2	458.1	99.2	32.0	23.2	50.9	32.0	
26	13.3	17.6	10.6	40.8	22.0	390.6	443.7	95.0	31.2	22.8	48.3	32.8	
27	13.3	17.2	9.6	33.6	22.8	427.5	444.6	87.8	30.0	22.4	47.7	36.0	
28	12.7	17.6	9.2	28.8	23.6	468.0	442.8	78.8	28.8	22.0	47.7	38.1	
29	11.8	20.0	9.2	25.6	24.8	521.1	440.1	71.0	27.6	22.0		40.8	
30	11.2	19.6	9.2	23.6	32.0	551.0	432.9	64.3	26.4	21.6		41.9	
31		17.6		19.6	39.7		423.0		25.6	22.4		38.1	
TOTAL	343.4	471.6	667.4	718.8	556.8	10236.6	16632.6	6357.0	1279.1	739.2	1319.7	1097.8	40420.0 CMSDAY
MEAN	11.4	15.2	22.2	23.2	18.0	341.2	536.5	211.9	41.3	23.8	47.1	35.4	110.7 CMS
MAX	18.8	20.0	41.9	81.8	39.7	561.0	634.0	409.5	58.4	26.0	56.8	49.9	634.0 CMS
MIN	6.8	10.6	9.2	7.8	12.4	48.8	423.0	64.3	25.6	21.6	20.4	24.4	6.8 CMS
RUNOFF	29.67	40.75	57.66	62.10	48.11	884.44	1437.06	549.24	110.51	63.87	114.02	94.85	3492.29 MCM

MOMENTARY PEAK 635.00 CMS, AT 145.05 M (MSL), AT 6.00 HOURS, ON OCT 5, 1982

RUNOFF YIELD 3.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

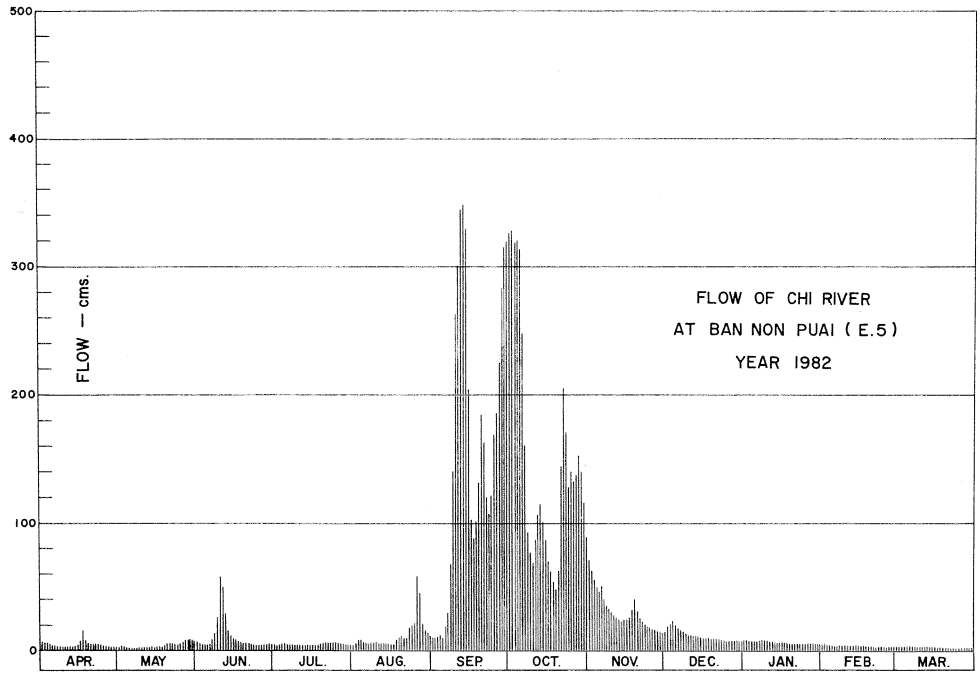
CHI RIVER NEAR BAN NON PUAI, CHAIYAPHUM (E.5)

LOCATION	LAT. 15-46-07 N., LONG. 101-49-03 E., ON LEFT BANK NEAR BAN NON PUAI ABOUT 30 METERS DOWNSTREAM FROM BAN TA NGO, AMPHOE BAN KHWAO, CHAIYAPHUM.
DRAINAGE AREA	4,254 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+186.07 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+197.543 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN 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 FLOAT	-
RATED BY CURRENT METER	1967-1971, 1973, 1979, 1982 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 1982

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	187.15	186.69	187.01	186.92	186.86	187.41	196.20	190.53	187.70	187.11	186.91	186.77	
2	187.06	186.68	186.93	186.85	186.92	187.34	196.23	190.11	187.92	187.11	186.91	186.76	
3	187.03	186.70	186.90	186.84	187.23	187.42	196.08	189.81	188.10	187.11	186.89	186.76	
4	186.94	186.67	186.84	186.87	187.23	187.45	196.13	189.57	188.28	187.11	186.89	186.75	
5	186.84	186.61	186.81	186.93	187.08	187.39	195.97	189.37	188.09	187.11	186.88	186.75	
6	186.77	186.60	186.86	186.88	186.97	187.86	194.31	189.58	187.92	187.15	186.88	186.74	
7	186.74	186.61	187.37	186.85	186.92	188.77	192.10	189.07	187.80	187.20	186.87	186.74	
8	186.72	186.64	187.66	186.84	186.90	190.10	191.16	188.91	187.68	187.23	186.86	186.73	
9	186.71	186.65	188.57	186.81	186.97	193.02	190.66	188.76	187.58	187.27	186.84	186.72	
10	186.71	186.67	189.94	186.80	187.02	195.12	190.35	188.62	187.55	187.23	186.89	186.72	
11	186.72	186.67	189.66	186.80	186.99	196.18	190.87	188.52	187.53	187.15	186.88	186.73	
12	186.73	186.67	188.49	186.81	186.95	196.51	191.65	188.43	187.49	187.11	186.87	186.72	
13	186.77	186.67	187.79	186.81	186.92	196.56	191.89	188.32	187.45	187.09	186.85	186.71	
14	186.78	186.76	187.50	186.80	186.90	196.10	191.34	188.22	187.43	187.06	186.83	186.71	
15	186.86	186.67	187.31	186.83	186.89	193.65	190.87	188.24	187.39	187.04	186.83	186.72	
16	187.12	186.66	187.21	186.88	186.89	191.59	190.43	188.32	187.34	187.03	186.81	186.71	
17	187.77	186.73	187.16	186.85	186.88	191.02	190.03	188.42	187.33	187.01	186.81	186.69	
18	187.28	186.68	187.06	186.82	187.20	191.64	189.73	188.76	187.32	187.00	186.81	186.69	
19	187.01	186.67	187.00	186.84	187.33	192.78	189.50	189.13	187.30	186.99	186.79	186.68	
20	186.94	186.91	186.96	186.95	187.45	193.57	190.29	188.73	187.25	186.98	186.79	186.68	
21	186.93	186.97	186.95	187.08	187.35	193.05	192.68	188.42	187.24	186.96	186.79	186.68	
22	186.96	186.99	186.91	187.06	187.35	192.08	193.99	188.21	187.23	186.94	186.79	186.68	
23	186.93	186.96	186.88	187.06	187.88	191.60	193.03	188.07	187.22	186.94	186.78	186.68	
24	186.88	186.84	186.87	187.08	188.00	192.29	192.27	187.95	187.21	186.92	186.78	186.67	
25	186.83	186.97	186.85	187.05	188.21	193.28	192.57	187.89	187.19	186.91	186.77	186.66	
26	186.77	187.06	186.85	186.98	189.88	193.61	192.36	187.82	187.18	186.91	186.77	186.67	
27	186.75	187.24	186.86	186.92	189.45	194.38	192.51	187.76	187.17	186.91	186.77	186.67	
28	186.74	187.26	186.86	186.88	188.39	195.46	192.88	187.71	187.17	186.91	186.85	186.66	
29	186.71	187.29	186.91	186.85	187.89	196.00	192.56	187.66	187.16	186.91		186.66	
30	186.70	187.35	186.95	186.89	187.64	196.10	191.90	187.61	187.15	186.92		186.64	
31		187.15		186.88	187.49		191.13		187.14	186.90		186.64	
MEAN	186.90	186.83	187.33	186.89	187.42	192.31	192.38	188.62	187.47	187.04	186.84	186.70	
MAX	187.77	187.35	189.94	187.08	189.88	196.56	196.23	190.53	188.28	187.27	186.91	186.77	196.56
MIN	186.70	186.60	186.81	186.80	186.86	187.34	189.50	187.61	187.14	186.90	186.77	186.64	186.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 196.58 M (MSL), AT 9.00 HOURS, ON SEP 13, 1982
ZERO GAGE AT BOTTOM ELEVATION 186.07 M (MSL), RIVER BED 185.97 M (MSL)
LEFT BANK ELEVATION 199.96 M (MSL)
RIGHT BANK ELEVATION 197.89 M (MSL), DRAINAGE AREA 4254 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.50	2.90	6.10	5.20	4.60	10.65	326.00	73.25	15.00	7.10	5.10	3.70	
2	6.60	2.80	5.30	4.50	5.20	9.60	327.80	62.75	18.30	7.10	5.10	3.60	
3	6.30	3.00	5.00	4.40	8.30	10.80	318.80	55.25	21.00	7.10	4.90	3.60	
4	5.40	2.70	4.40	4.70	8.30	11.25	321.80	49.39	23.70	7.10	4.90	3.50	
5	4.40	2.10	4.10	5.30	6.80	10.35	312.20	45.30	20.85	7.10	4.80	3.50	
6	3.70	2.00	4.60	4.80	5.70	17.40	220.50	49.59	18.30	7.50	4.80	3.40	
7	3.40	2.10	10.05	4.50	5.20	33.05	122.00	39.18	16.50	8.00	4.70	3.40	
8	3.20	2.40	14.40	4.40	5.00	62.50	91.80	35.91	14.70	8.30	4.60	3.30	
9	3.10	2.50	28.97	4.10	5.70	157.80	76.80	32.85	13.20	8.70	4.40	3.20	
10	3.10	2.70	58.50	4.00	6.20	263.60	68.75	29.99	12.75	8.30	4.90	3.20	
11	3.20	2.70	51.50	4.00	5.90	324.80	83.10	27.95	12.45	7.50	4.80	3.30	
12	3.30	2.70	27.34	4.10	5.50	344.60	106.50	26.11	11.85	7.10	4.70	3.20	
13	3.70	2.70	16.35	4.10	5.20	347.60	114.65	24.30	11.25	6.90	4.50	3.10	
14	3.80	3.60	12.00	4.00	5.00	320.00	97.20	22.80	10.95	6.60	4.30	3.10	
15	4.60	2.70	9.15	4.30	4.90	187.50	83.10	23.10	10.35	6.40	4.30	3.20	
16	7.20	2.60	8.10	4.80	4.90	104.70	70.75	24.30	9.60	6.30	4.10	3.10	
17	16.05	3.30	7.60	4.50	4.80	87.60	60.75	25.91	9.45	6.10	4.10	2.90	
18	8.80	2.80	6.60	4.20	8.00	106.20	53.25	32.85	9.30	6.00	4.10	2.90	
19	6.10	2.70	6.00	4.40	9.45	148.20	47.96	40.40	9.00	5.90	3.90	2.80	
20	5.40	5.10	5.60	5.50	11.25	183.50	67.25	32.24	8.50	5.80	3.90	2.80	
21	5.30	5.70	5.50	6.80	9.75	159.00	144.20	25.91	8.40	5.60	3.90	2.80	
22	5.60	5.90	5.10	6.60	9.75	121.30	204.50	22.65	8.30	5.40	3.90	2.80	
23	5.30	5.60	4.80	6.60	17.70	105.00	158.20	20.55	8.20	5.40	3.80	2.80	
24	4.80	4.40	4.70	6.80	19.50	128.65	127.95	18.75	8.10	5.20	3.80	2.70	
25	4.30	5.70	4.50	6.50	22.65	169.10	139.80	17.85	7.90	5.10	3.70	2.60	
26	3.70	6.60	4.50	5.80	57.00	185.50	131.40	16.80	7.80	5.10	3.70	2.70	
27	3.50	8.40	4.60	5.20	46.94	224.00	137.40	15.90	7.70	5.10	3.70	2.70	
28	3.40	8.60	4.60	4.80	25.35	282.30	152.20	15.15	7.70	5.10	4.50	2.60	
29	3.10	8.90	5.10	4.50	17.85	314.00	139.40	14.40	7.60	5.10		2.60	
30	3.00	9.75	5.50	4.90	14.10	320.00	115.00	13.65	7.50	5.20		2.40	
31		7.50		4.80	11.85		90.90		7.40	5.00		2.40	
TOTAL	150.85	133.15	340.56	153.10	378.34	4750.55	4511.91	935.03	363.60	198.20	121.90	93.90	12131.09 CMSDAY
MEAN	5.03	4.30	11.35	4.94	12.20	158.35	145.55	31.17	11.73	6.39	4.35	3.03	33.24 CMS
MAX	16.05	9.75	58.50	6.80	57.00	347.60	327.80	73.25	23.70	8.70	5.10	3.70	347.60 CMS
MIN	3.00	2.00	4.10	4.00	4.60	9.60	47.96	13.65	7.40	5.00	3.70	2.40	2.00 CMS
RUNOFF	13.033	11.504	29.424	13.228	32.689	410.448	389.829	80.787	31.415	17.124	10.532	8.113	1048.126 MCM

MOMENTARY PEAK 348.80 CMS, AT 196.58 M (MSL), AT 9.00 HOURS, ON SEP 13, 1982

RUNOFF YIELD 7.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 81.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

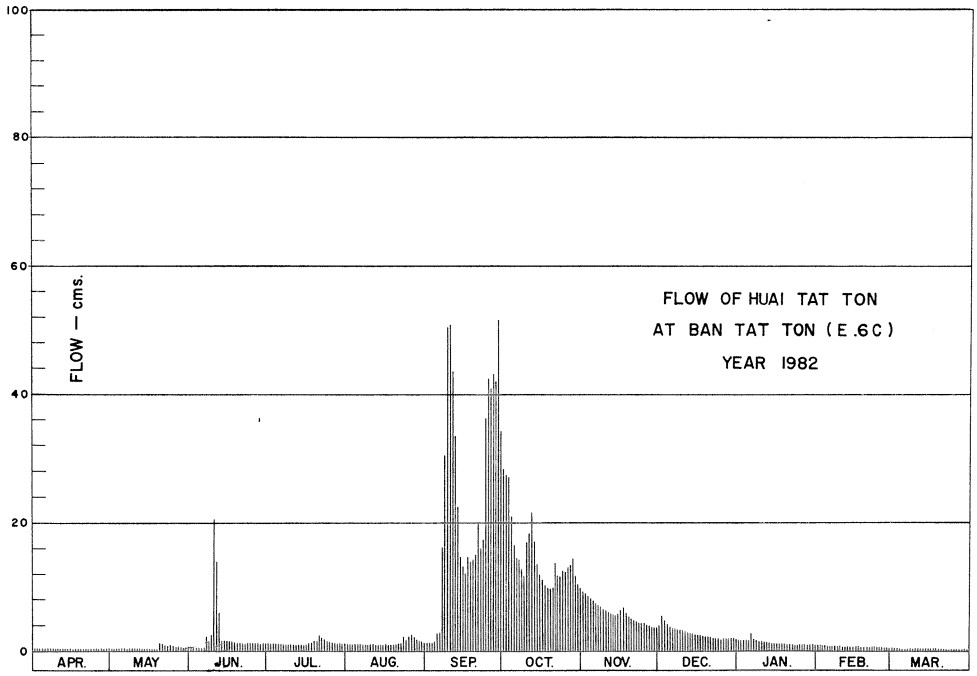
HUAI TAT TON AT BAN TAT TON, CHAIYAPHUM (E.6C).

LOCATION	LAT. 15-57-36 N., LONG. 102-01-57 E., ON RIGHT BANK ABOUT 5 KILOMETERS UPSTREAM FROM E.6A STATION AT BAN TAT TON, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	300 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+7.303 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT AND SOME SCOURING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.70	0.85	0.97	0.95	1.01	3.09	1.63	1.12	0.88	0.78	0.70	
2	0.75	0.70	0.82	0.97	0.95	1.01	3.05	1.59	1.26	0.88	0.78	0.70	
3	0.74	0.70	0.82	0.97	0.94	1.01	3.03	1.55	1.21	0.87	0.77	0.70	
4	0.73	0.70	0.82	0.96	0.94	1.04	2.57	1.52	1.16	0.87	0.77	0.69	
5	0.71	0.70	0.82	0.96	0.94	1.20	2.32	1.49	1.09	0.87	0.76	0.68	
6	0.71	0.70	0.81	0.95	0.95	1.22	2.08	1.47	1.08	1.00	0.76	0.68	
7	0.71	0.76	1.16	0.95	0.95	2.48	2.05	1.43	1.07	0.90	0.76	0.67	
8	0.76	0.73	1.05	0.95	0.95	3.75	1.92	1.40	1.04	0.87	0.76	0.67	
9	0.74	0.71	1.16	0.95	0.95	4.59	1.82	1.38	1.04	0.86	0.76	0.68	
10	0.74	0.71	2.53	0.95	0.95	4.61	2.25	1.36	1.03	0.86	0.75	0.69	
11	0.73	0.70	2.04	0.95	0.94	4.19	2.36	1.35	1.02	0.85	0.75	0.69	
12	0.72	0.70	1.25	0.95	0.94	3.26	2.62	1.31	1.01	0.85	0.75	0.69	
13	0.71	0.72	1.08	0.94	0.93	2.61	2.32	1.30	1.00	0.84	0.75	0.68	
14	0.72	0.72	1.07	0.94	0.91	2.11	2.01	1.28	0.99	0.84	0.74	0.68	
15	0.75	0.81	1.06	0.94	0.92	1.97	1.87	1.32	0.98	0.83	0.74	0.68	
16	0.80	0.75	1.05	0.96	0.95	1.85	1.83	1.36	0.97	0.83	0.74	0.68	
17	0.80	0.74	1.04	0.97	0.93	2.08	1.74	1.40	0.97	0.83	0.74	0.67	
18	0.79	0.72	1.03	1.00	0.93	2.00	1.68	1.31	0.96	0.83	0.74	0.67	
19	0.77	0.73	1.02	1.05	0.93	2.02	1.66	1.26	0.95	0.82	0.73	0.67	
20	0.76	1.01	1.01	1.05	0.94	2.11	1.68	1.23	0.94	0.81	0.73	0.67	
21	0.75	0.96	1.01	1.16	0.96	2.48	1.98	1.21	0.93	0.81	0.73	0.67	
22	0.75	0.95	1.01	1.14	0.97	2.17	1.83	1.19	0.92	0.80	0.73	0.66	
23	0.77	0.91	1.00	1.08	1.15	2.28	1.82	1.18	0.92	0.80	0.72	0.66	
24	0.74	0.94	0.99	1.04	1.05	3.65	1.89	1.17	0.91	0.80	0.72	0.66	
25	0.73	0.90	0.98	1.02	1.15	4.07	1.87	1.15	0.91	0.79	0.72	0.65	
26	0.73	0.90	0.97	0.99	1.18	3.96	1.94	1.14	0.90	0.79	0.71	0.65	
27	0.73	0.90	0.97	0.97	1.14	4.11	1.96	1.12	0.90	0.79	0.71	0.65	
28	0.73	0.87	0.97	0.97	1.08	4.03	2.05	1.11	0.91	0.79	0.71	0.64	
29	0.72	0.85	0.97	0.97	1.05	4.67	1.86	1.10	0.90	0.79		0.64	
30	0.71	0.85	0.97	0.96	1.03	3.56	1.75	1.09	0.89	0.79		0.64	
31		0.85		0.96	1.00		1.66		0.88	0.78		0.64	
MEAN	0.74	0.79	1.08	0.99	0.99	2.70	2.08	1.31	1.00	0.84	0.74	0.67	
MAX	0.80	1.01	2.53	1.16	1.18	4.67	3.09	1.63	1.26	1.00	0.78	0.70	4.67
MIN	0.71	0.70	0.81	0.94	0.91	1.01	1.66	1.09	0.88	0.78	0.71	0.64	0.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.90 M (A.D), AT 7.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.35 M (A.D)
LEFT BANK ELEVATION 7.65 M (A.D)
RIGHT BANK ELEVATION 6.90 M (A.D), DRAINAGE AREA 300 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.10	0.50	1.05	0.95	1.26	28.06	9.33	3.90	1.72	0.90	0.50	
2	0.20	0.10	0.38	1.05	0.95	1.26	27.50	8.89	5.30	1.72	0.90	0.50	
3	0.18	0.10	0.38	1.05	0.90	1.26	27.22	8.45	4.80	1.63	0.85	0.50	
4	0.16	0.10	0.38	1.00	0.90	1.44	20.97	8.12	4.30	1.63	0.85	0.45	
5	0.12	0.10	0.38	1.00	0.90	2.60	17.68	7.79	3.61	1.63	0.80	0.40	
6	0.12	0.10	0.34	0.95	0.95	2.78	14.66	7.57	3.52	2.80	0.80	0.40	
7	0.12	0.22	2.28	0.95	0.95	19.79	14.30	7.13	3.43	1.90	0.80	0.35	
8	0.22	0.16	1.50	0.95	0.95	37.65	12.74	6.80	3.16	1.63	0.80	0.35	
9	0.18	0.12	2.28	0.95	0.95	50.25	11.54	6.58	3.16	1.54	0.80	0.40	
10	0.18	0.12	20.44	0.95	0.95	50.55	16.76	6.36	3.07	1.54	0.75	0.45	
11	0.16	0.10	14.18	0.95	0.90	44.25	18.21	6.25	2.98	1.45	0.75	0.45	
12	0.14	0.10	5.20	0.95	0.90	30.44	21.63	5.81	2.89	1.45	0.75	0.45	
13	0.12	0.14	1.68	0.90	0.85	21.50	17.68	5.70	2.80	1.36	0.75	0.40	
14	0.14	0.14	1.62	0.90	0.75	15.02	13.82	5.50	2.71	1.36	0.70	0.40	
15	0.20	0.34	1.56	0.90	0.80	13.34	12.14	5.92	2.62	1.27	0.70	0.40	
16	0.30	0.20	1.50	1.00	0.95	11.90	11.66	6.36	2.53	1.27	0.70	0.40	
17	0.30	0.18	1.44	1.05	0.85	14.66	10.58	6.80	2.53	1.27	0.70	0.35	
18	0.28	0.14	1.38	1.20	0.85	13.70	9.88	5.81	2.44	1.27	0.70	0.35	
19	0.24	0.16	1.32	1.50	0.85	13.94	9.66	5.30	2.35	1.18	0.65	0.35	
20	0.22	1.26	1.26	1.50	0.90	15.02	9.88	5.00	2.26	1.09	0.65	0.35	
21	0.20	1.00	1.26	2.28	1.00	19.79	13.46	4.80	2.17	1.09	0.65	0.35	
22	0.20	0.95	1.26	2.12	1.05	15.74	11.66	4.60	2.08	1.00	0.65	0.30	
23	0.24	0.75	1.20	1.68	2.20	17.15	11.54	4.50	2.08	1.00	0.60	0.30	
24	0.18	0.90	1.15	1.44	1.50	36.15	12.38	4.40	1.99	1.00	0.60	0.30	
25	0.16	0.70	1.10	1.32	2.20	42.45	12.14	4.20	1.99	0.95	0.60	0.25	
26	0.16	0.70	1.05	1.15	2.44	40.80	12.98	4.10	1.90	0.95	0.55	0.25	
27	0.16	0.70	1.05	1.05	2.12	43.05	13.22	3.90	1.90	0.95	0.55	0.25	
28	0.16	0.58	1.05	1.05	1.68	41.85	14.30	3.80	1.99	0.95	0.55	0.20	
29	0.14	0.50	1.05	1.05	1.50	51.45	12.02	3.70	1.90	0.95		0.20	
30	0.12	0.50	1.05	1.00	1.38	34.80	10.70	3.61	1.81	0.95		0.20	
31		0.50		1.00	1.20		9.66		1.72	0.90		0.20	
TOTAL	5.60	11.76	71.22	35.89	36.22	705.84	460.63	177.08	85.89	41.40	20.05	11.00	1662.58 CMSDAY
MEAN	0.19	0.38	2.37	1.16	1.17	23.53	14.86	5.90	2.77	1.34	0.72	0.35	4.56 CMS
MAX	0.30	1.26	20.44	2.28	2.44	51.45	28.06	9.33	5.30	2.80	0.90	0.50	51.45 CMS
MIN	0.12	0.10	0.34	0.90	0.75	1.26	9.66	3.61	1.72	0.90	0.55	0.20	0.10 CMS
RUNOFF	0.484	1.016	6.153	3.101	3.129	60.985	39.798	15.300	7.421	3.577	1.732	0.950	143.647 MCM

MOMENTARY PEAK 55.00 CMS, AT 4.90 M (A.D), AT 7.00 HOURS, ON SEP 29, 1982
RUNOFF YIELD 15.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 183.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

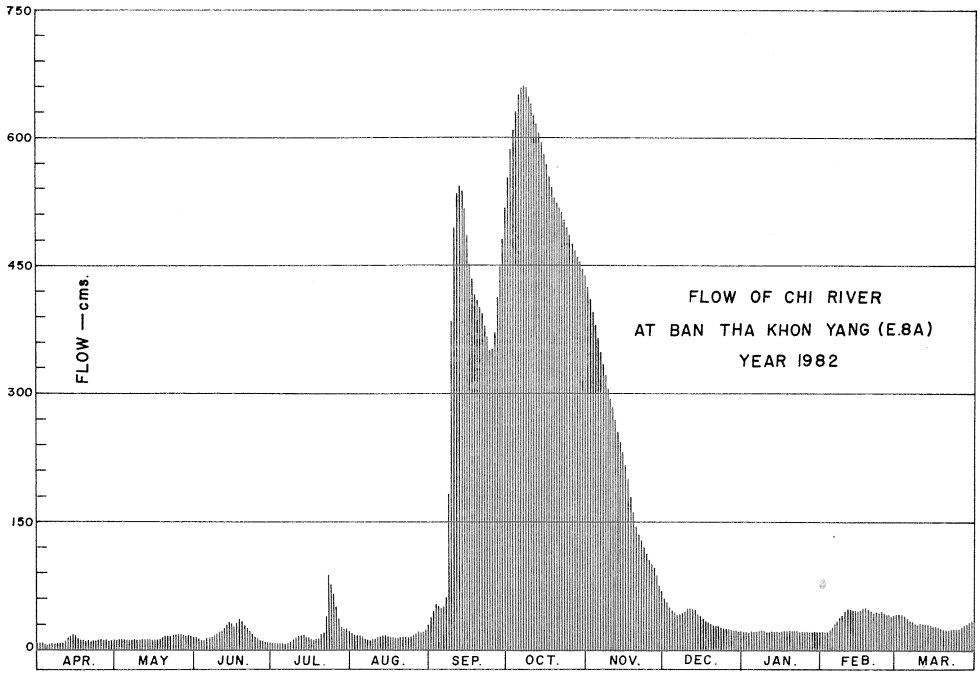
CHI RIVER AT BAN THA KHON YANG, MAHA SARAKHAM (E.8A)

LOCATION	LAT. 16°-13'-51" N., LONG. 103°-16'-29" E., ON RIGHT BANK AT THE BRIDGE OF MAHA SARAKHAM-KALASIN HIGHWAY, TAMBON THA KHON YANG, AMPHOE KANTHARAWICHAI, MAHA SARAKHAM.
DRAINAGE AREA	30,764 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+133.21 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+144.420 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1955 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1955-1957, 1965-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1955-1957, 1965-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SILTING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY NAM PHONG DAM ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	133.91	133.98	134.13	133.93	134.18	134.61	141.79	140.26	135.00	134.27	134.26	134.67	
2	133.87	134.01	134.06	133.91	134.17	134.81	142.00	140.08	134.91	134.26	134.23	134.67	
3	133.84	134.01	134.05	133.88	134.14	134.92	142.18	139.87	134.81	134.25	134.22	134.67	
4	133.82	134.00	134.04	133.89	134.13	134.89	142.30	139.69	134.74	134.24	134.26	134.67	
5	133.83	134.00	134.04	133.89	134.12	134.84	142.36	139.45	134.70	134.24	134.40	134.59	
6	133.83	133.99	134.07	133.91	134.06	134.89	142.40	139.25	134.68	134.26	134.49	134.53	
7	133.86	133.98	134.11	133.93	134.04	135.16	142.40	139.07	134.68	134.26	134.57	134.48	
8	133.88	133.99	134.12	133.96	134.05	137.61	142.39	138.89	134.70	134.27	134.61	134.45	
9	133.93	133.99	134.16	133.97	134.05	140.69	142.34	138.71	134.75	134.28	134.67	134.44	
10	133.96	134.02	134.25	134.05	134.07	141.36	142.29	138.55	134.79	134.28	134.74	134.44	
11	134.01	134.04	134.28	134.13	134.08	141.59	142.23	138.36	134.82	134.28	134.80	134.46	
12	134.07	134.04	134.36	134.15	134.13	141.65	142.16	138.18	134.81	134.27	134.79	134.45	
13	134.12	134.03	134.45	134.15	134.14	141.58	142.11	137.99	134.77	134.27	134.76	134.44	
14	134.14	134.03	134.51	134.09	134.17	141.36	142.02	137.83	134.67	134.25	134.75	134.43	
15	134.10	134.02	134.39	134.06	134.15	140.97	141.90	137.63	134.59	134.25	134.76	134.42	
16	134.05	134.05	134.37	134.05	134.11	140.61	141.81	137.38	134.57	134.26	134.78	134.42	
17	134.00	134.06	134.50	134.03	134.12	140.32	141.71	137.13	134.51	134.26	134.82	134.37	
18	133.98	134.05	134.58	134.04	134.09	140.14	141.60	136.87	134.48	134.26	134.84	134.31	
19	133.96	134.08	134.51	134.05	134.07	140.09	141.53	136.58	134.46	134.26	134.82	134.28	
20	133.95	134.10	134.38	134.11	134.13	139.99	141.47	136.40	134.44	134.26	134.77	134.26	
21	133.96	134.12	134.27	134.34	134.09	139.86	141.38	136.31	134.42	134.25	134.71	134.26	
22	133.97	134.14	134.18	134.78	134.13	139.63	141.30	136.23	134.37	134.25	134.69	134.29	
23	133.97	134.15	134.10	135.55	134.11	139.45	141.23	136.06	134.34	134.26	134.70	134.33	
24	133.98	134.14	134.04	135.54	134.12	139.33	141.13	135.91	134.33	134.26	134.72	134.33	
25	133.96	134.14	134.01	135.10	134.16	139.43	141.01	135.81	134.33	134.25	134.70	134.35	
26	133.98	134.13	133.98	134.78	134.21	139.77	140.84	135.73	134.33	134.25	134.68	134.36	
27	134.02	134.12	133.94	134.53	134.25	140.19	140.74	135.60	134.32	134.24	134.65	134.39	
28	134.01	134.13	133.93	134.39	134.27	140.63	140.68	135.45	134.30	134.24	134.65	134.43	
29	134.00	134.13	133.92	134.31	134.28	141.15	140.62	135.30	134.30	134.24		134.48	
30	133.98	134.14	133.93	134.26	134.31	141.50	140.53	135.14	134.29	134.24		134.51	
31		134.13		134.23	134.44		140.38		134.28	134.24		134.54	
MEAN	133.96	134.06	134.19	134.26	134.15	139.10	141.64	137.52	134.56	134.26	134.64	134.44	
MAX	134.14	134.15	134.58	135.55	134.44	141.65	142.40	140.26	135.00	134.28	134.84	134.67	142.40
MIN	133.82	133.98	133.92	133.88	134.04	134.61	140.38	135.14	134.28	134.24	134.22	134.26	133.82

ANNUAL MAX MOMENTARY GAGE HEIGHT 142.41 M (MSL), AT 18.00 HOURS, ON OCT 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 133.21 M (MSL), RIVER BED 133.34 M (MSL)
LEFT BANK ELEVATION 144.52 M (MSL)
RIGHT BANK ELEVATION 144.05 M (MSL), DRAINAGE AREA 30764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.3	10.4	16.2	8.9	18.2	37.5	558.7	423.8	57.0	21.8	21.4	40.5	
2	7.1	11.4	13.4	8.3	17.8	47.5	587.0	409.4	52.5	21.4	20.2	40.5	
3	6.2	11.4	13.0	7.4	16.6	53.0	616.4	392.6	47.5	21.0	19.8	40.5	
4	5.6	11.0	12.6	7.7	16.2	51.5	638.0	378.2	44.0	20.6	21.4	40.5	
5	5.9	11.0	12.6	7.7	15.8	49.0	651.2	359.0	42.0	20.6	27.0	36.5	
6	5.9	10.7	13.8	8.3	13.4	51.5	660.0	343.0	41.0	21.4	31.5	33.5	
7	6.8	10.4	15.4	8.9	12.6	65.0	660.0	328.6	41.0	21.4	35.5	31.0	
8	7.4	10.7	15.8	9.8	13.0	223.2	657.8	314.2	42.0	21.8	37.5	29.5	
9	8.9	10.7	17.4	10.1	13.0	458.2	646.8	300.7	44.5	22.2	40.5	29.0	
10	9.8	11.8	21.0	13.0	13.8	513.0	636.2	289.4	46.5	22.2	44.0	29.0	
11	11.4	12.6	22.2	16.2	14.2	536.0	625.4	276.0	48.0	22.2	47.0	30.0	
12	13.8	12.6	25.4	17.0	16.2	542.0	612.8	263.3	47.5	21.8	46.5	29.5	
13	15.8	12.2	29.5	17.0	16.6	535.0	603.8	250.0	45.5	21.8	45.0	29.0	
14	16.6	12.2	32.5	14.6	17.8	513.0	590.0	238.7	40.5	21.0	44.5	28.5	
15	15.0	11.8	26.6	13.4	17.0	480.6	573.0	224.6	36.5	21.0	45.0	28.0	
16	13.0	13.0	25.8	13.0	15.4	451.8	561.3	207.0	35.5	21.4	46.0	28.0	
17	11.0	13.4	32.0	12.2	15.8	428.6	548.3	189.4	32.5	21.4	48.0	25.8	
18	10.4	13.0	36.0	12.6	14.6	414.2	537.0	171.1	31.0	21.4	49.0	23.4	
19	9.8	14.2	32.5	13.0	13.8	410.2	530.0	150.7	30.0	21.4	48.0	22.2	
20	9.5	15.0	26.2	15.4	16.2	402.2	524.0	138.0	29.0	21.4	45.5	21.4	
21	9.8	15.8	21.8	24.6	14.6	391.8	515.0	132.6	28.0	21.0	42.5	21.4	
22	10.1	16.6	18.2	46.0	16.2	373.4	507.0	127.8	25.8	21.0	41.5	22.6	
23	10.1	17.0	15.0	87.0	15.4	359.0	501.4	117.6	24.6	21.4	42.0	24.2	
24	10.4	16.6	12.6	86.4	15.8	349.4	493.4	108.6	24.2	21.4	43.0	24.2	
25	9.8	16.6	11.4	62.0	17.4	357.4	483.8	102.6	24.2	21.0	42.0	25.0	
26	10.4	16.2	10.4	46.0	19.4	384.6	470.2	97.8	24.2	21.0	41.0	25.4	
27	11.8	15.8	9.2	33.5	21.0	418.2	462.2	90.0	23.8	20.6	39.5	26.6	
28	11.4	16.2	8.9	26.6	21.8	453.4	457.4	81.0	23.0	20.6	39.5	28.5	
29	11.0	16.2	8.6	23.4	22.2	495.0	452.6	72.0	23.0	20.6		31.0	
30	10.4	16.6	8.9	21.4	23.4	527.0	445.4	64.0	22.6	20.6		32.5	
31		16.2		20.2	29.0		433.4		22.2	20.6		34.0	
TOTAL	303.4	419.3	564.9	711.6	524.2	10372.2	17239.5	6641.7	1099.6	659.0	1094.3	911.7	40541.4 CMSDAY
MEAN	10.1	13.5	18.8	23.0	16.9	345.7	556.1	221.4	35.5	21.3	39.1	29.4	111.1 CMS
MAX	16.6	17.0	36.0	87.0	29.0	542.0	660.0	423.8	57.0	22.2	49.0	40.5	660.0 CMS
MIN	5.6	10.4	8.6	7.4	12.6	37.5	433.4	64.0	22.2	20.6	19.8	21.4	5.6 CMS
RUNOFF	26.21	36.23	48.81	61.48	45.29	896.16	1489.49	573.84	95.01	56.94	94.55	78.77	3502.78 MCM

MOMENTARY PEAK 662.20 CMS, AT 142.41 M (MSL), AT 18.00 HOURS, ON OCT 7, 1982

RUNOFF YIELD 3.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.53 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

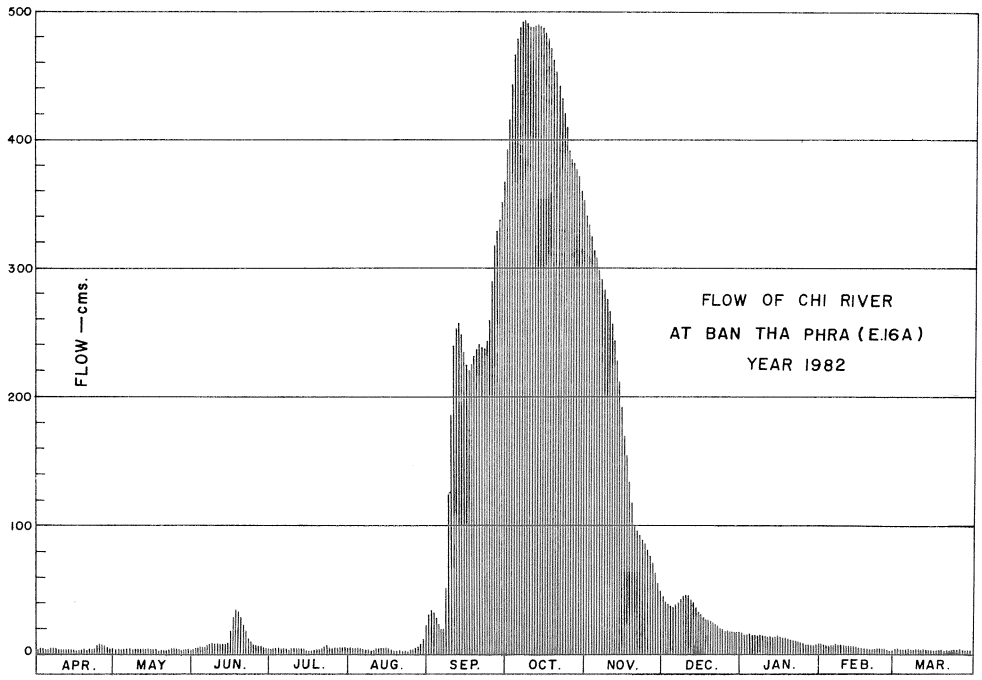
CHI RIVER AT BAN THA PHRA, KHON KAEN (E.16A)

LOCATION	LAT. 16°-21'-14" N., LONG. 102°-48'-09" E., ON LEFT BANK ABOUT 400 METERS UPSTREAM FROM THE BRIDGE OF KHON KAEN-MAHA SARAKHAM HIGHWAY, TAMBON DON HAN, AMPHOE MUANG, KHON KAEN.
DRAINAGE AREA	13,171 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+142.94 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+154.989 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1963, 1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1963, 1965 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	143.05	143.08	143.02	143.02	143.14	144.36	150.34	149.60	144.79	143.82	143.44	143.01	
2	143.09	143.06	143.05	143.00	143.12	144.46	150.69	149.47	144.69	143.80	143.42	143.00	
3	143.11	143.03	143.08	142.98	143.07	144.45	151.02	149.35	144.62	143.79	143.40	143.02	
4	143.12	143.00	143.17	142.96	143.02	144.31	151.29	149.26	144.56	143.77	143.40	143.01	
5	143.14	142.97	143.25	142.95	142.99	144.12	151.43	149.14	144.53	143.77	143.40	143.00	
6	143.14	142.95	143.33	142.95	142.97	143.93	151.51	149.04	144.56	143.78	143.38	143.00	
7	143.15	142.93	143.44	142.94	142.94	144.06	151.55	148.94	144.62	143.77	143.37	142.99	
8	143.17	142.98	143.46	142.96	142.91	145.84	151.56	148.84	144.70	143.78	143.36	142.98	
9	143.14	143.02	143.46	143.09	142.88	147.17	151.54	148.71	144.77	143.77	143.36	142.98	
10	143.09	143.01	143.44	143.08	142.86	148.18	151.51	148.57	144.79	143.76	143.36	142.97	
11	143.02	142.96	143.37	143.09	142.85	148.44	151.50	148.42	144.78	143.74	143.34	142.97	
12	143.09	142.90	143.31	143.06	142.99	148.49	151.51	148.25	144.70	143.72	143.30	142.96	
13	143.11	142.88	143.24	142.99	143.06	148.35	151.52	148.06	144.62	143.70	143.28	142.94	
14	143.10	142.89	143.29	142.94	143.03	148.18	151.51	147.79	144.51	143.70	143.25	142.93	
15	143.07	142.87	143.86	142.90	142.97	148.03	151.49	147.47	144.43	143.72	143.24	142.91	
16	143.04	142.85	144.30	142.88	142.92	147.94	151.46	147.12	144.36	143.71	143.21	142.90	
17	143.01	142.84	144.47	142.84	142.85	148.02	151.40	146.78	144.29	143.71	143.21	142.90	
18	142.97	142.84	144.45	142.85	142.80	148.12	151.32	146.47	144.23	143.70	143.21	142.90	
19	142.95	142.84	144.32	142.89	142.77	148.22	151.21	146.14	144.18	143.67	143.21	142.90	
20	142.96	142.88	144.14	142.91	142.77	148.25	151.08	145.94	144.14	143.63	143.20	142.90	
21	142.99	142.91	143.93	143.04	142.77	148.22	150.97	145.87	144.11	143.58	143.19	142.90	
22	143.00	142.95	143.72	143.24	142.77	148.19	150.86	145.80	144.08	143.56	143.18	142.89	
23	143.01	142.95	143.56	143.22	142.76	148.29	150.72	145.72	144.03	143.54	143.16	142.89	
24	143.09	142.89	143.43	143.14	142.78	148.59	150.55	145.66	143.97	143.50	143.13	142.87	
25	143.37	142.87	143.32	143.11	142.91	149.01	150.34	145.59	143.96	143.46	143.10	142.85	
26	143.36	142.86	143.25	143.11	143.15	149.34	150.20	145.49	143.93	143.44	143.06	142.84	
27	143.30	142.86	143.18	143.12	143.30	149.49	150.17	145.34	143.90	143.43	143.05	142.84	
28	143.23	142.87	143.13	143.13	143.37	149.60	150.12	145.19	143.88	143.43	143.02	142.84	
29	143.16	142.89	143.09	143.15	143.45	149.85	150.02	145.05	143.88	143.41		142.81	
30	143.12	142.90	143.06	143.15	143.68	150.08	149.87	144.90	143.86	143.41		142.80	
31		142.94		143.15	144.02		149.73		143.84	143.44		142.79	
MEAN	143.11	142.92	143.50	143.03	143.03	147.45	150.97	147.27	144.33	143.65	143.26	142.92	
MAX	143.37	143.08	144.47	143.24	144.02	150.08	151.56	149.60	144.79	143.82	143.44	143.02	151.56
MIN	142.95	142.84	143.02	142.84	142.76	143.93	149.73	144.90	143.84	143.41	143.02	142.79	142.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 151.56 M (MSL), AT 12.00 HOURS, ON OCT 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 142.94 M (MSL), RIVER BED 138.74 M (MSL)
LEFT BANK ELEVATION 158.26 M (MSL)
RIGHT BANK ELEVATION 158.28 M (MSL), DRAINAGE AREA 13171 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.3	3.6	3.0	3.0	4.2	30.8	395.2	339.5	45.6	15.0	7.4	2.9	
2	3.7	3.4	3.3	2.8	4.0	33.8	423.2	329.7	41.7	14.5	7.1	2.8	
3	3.9	3.1	3.6	2.6	3.5	33.5	449.6	320.8	39.2	14.3	6.8	3.0	
4	4.0	2.8	4.5	2.4	3.0	29.3	471.2	314.0	37.1	13.8	6.8	2.9	
5	4.2	2.5	5.3	2.3	2.7	23.6	482.4	305.0	36.0	13.8	6.8	2.8	
6	4.2	2.3	6.1	2.3	2.5	17.9	488.8	297.5	37.1	14.0	6.6	2.8	
7	4.3	2.1	7.4	2.2	2.2	21.8	492.0	290.3	39.2	13.8	6.5	2.7	
8	4.5	2.6	7.7	2.4	1.9	94.0	492.8	283.3	42.0	14.0	6.4	2.6	
9	4.2	3.0	7.7	3.7	1.6	170.2	491.2	274.2	44.8	13.8	6.4	2.6	
10	3.7	2.9	7.4	3.6	1.5	237.1	488.8	264.4	45.6	13.5	6.4	2.5	
11	3.0	2.4	6.5	3.7	1.4	255.3	488.0	253.9	45.2	13.0	6.2	2.5	
12	3.7	1.8	5.9	3.4	2.7	258.8	488.8	242.0	42.0	12.5	5.8	2.4	
13	3.9	1.6	5.2	2.7	3.4	249.0	489.6	228.7	39.2	12.0	5.6	2.2	
14	3.8	1.7	5.7	2.2	3.1	237.1	488.8	209.8	35.4	12.0	5.3	2.1	
15	3.5	1.6	16.0	1.8	2.5	226.6	487.2	188.6	32.9	12.5	5.2	1.9	
16	3.2	1.4	29.0	1.6	2.0	220.3	484.8	167.2	30.8	12.3	4.9	1.8	
17	2.9	1.3	34.1	1.3	1.4	225.9	480.0	146.8	28.7	12.3	4.9	1.8	
18	2.5	1.3	33.5	1.4	1.0	232.9	473.6	128.2	26.9	12.0	4.9	1.8	
19	2.3	1.3	29.6	1.7	0.9	239.9	464.8	109.2	25.4	11.4	4.9	1.8	
20	2.4	1.6	24.2	1.9	0.9	242.0	454.4	99.0	24.2	10.6	4.8	1.8	
21	2.7	1.9	17.9	3.2	0.9	239.9	445.6	95.5	23.3	9.7	4.7	1.8	
22	2.8	2.3	12.5	5.2	0.9	237.8	436.8	92.0	22.4	9.3	4.6	1.7	
23	2.9	2.3	9.3	5.0	0.8	244.8	425.6	88.0	20.9	9.0	4.4	1.7	
24	3.7	1.7	7.3	4.2	0.9	265.8	412.0	85.0	19.1	8.3	4.1	1.6	
25	6.5	1.6	6.0	3.9	1.9	295.3	395.2	81.5	18.8	7.7	3.8	1.4	
26	6.4	1.5	5.3	3.9	4.3	320.0	384.5	76.5	17.9	7.4	3.4	1.3	
27	5.8	1.5	4.6	4.0	5.8	331.3	382.2	69.3	17.0	7.3	3.3	1.3	
28	5.1	1.6	4.1	4.1	6.5	339.5	378.5	62.6	16.5	7.3	3.0	1.3	
29	4.4	1.7	3.7	4.3	7.6	358.3	371.0	56.3	16.5	7.0		1.1	
30	4.0	1.8	3.4	4.3	11.6	375.5	359.7	50.0	16.0	7.0		1.0	
31		2.2		4.3	20.6		349.2		15.5	7.4		1.0	
TOTAL	115.5	64.4	319.8	95.4	108.2	6088.0	13815.5	5548.8	942.9	348.5	151.0	62.9	27660.9 CMSDAY
MEAN	3.9	2.1	10.7	3.1	3.5	202.9	445.7	185.0	30.4	11.2	5.4	2.0	75.8 CMS
MAX	6.5	3.6	34.1	5.2	20.6	375.5	492.8	339.5	45.6	15.0	7.4	3.0	492.8 CMS
MIN	2.3	1.3	3.0	1.3	0.8	17.9	349.2	50.0	15.5	7.0	3.0	1.0	0.8 CMS
RUNOFF	9.98	5.56	27.63	8.24	9.35	526.00	1193.66	479.42	81.47	30.11	13.05	5.43	2389.90 MCM

MOMENTARY PEAK 492.80 CMS, AT 151.56 M (MSL), AT 12.00 HOURS, ON OCT 8, 1982

RUNOFF YIELD 5.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

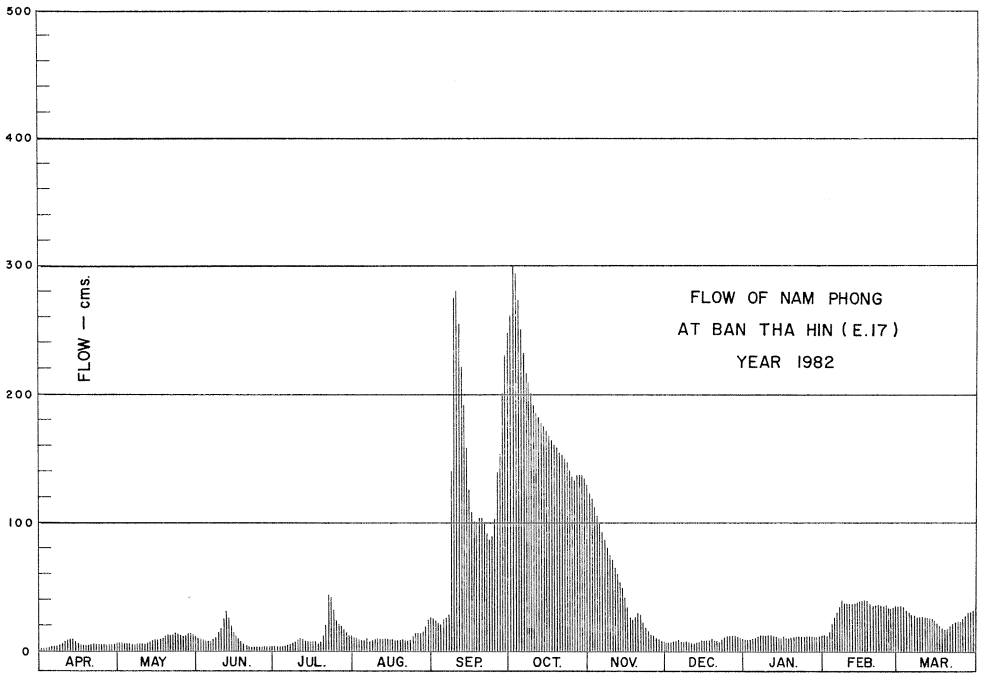
LAM NAM PHONG AT BAN THA HIN, KHON KAEN (E.17).

LOCATION	LAT. 16°-26'-20" N., LONG. 102°-56'-52" E., ON LEFT BANK AT THE BRIDGE OF KHON KAEN-KALASIN HIGHWAY, BAN THA HIN, TAM BON THA HIN, AMPHOE MUANG, KHON KAEN.
DRAINAGE AREA	14,426 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+140.820 M.(M.S.L.).
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+151.215 M.(M.S.L.).
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1973.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 306 DISCHARGE MEASUREMENTS MADE DURING 1965-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	141.60	141.99	142.15	141.69	142.23	142.88	149.01	145.82	141.97	142.13	142.22	143.25	
2	141.55	141.96	142.12	141.67	142.16	142.84	149.69	145.65	141.95	142.10	142.24	143.26	
3	141.56	141.93	142.09	141.65	142.12	142.70	149.57	145.45	141.93	142.10	142.48	143.23	
4	141.62	141.92	142.05	141.66	142.07	142.67	149.15	145.31	141.97	142.12	142.84	143.12	
5	141.68	141.88	142.03	141.78	142.01	142.83	148.72	145.14	142.04	142.18	143.00	143.05	
6	141.72	141.86	142.00	141.84	142.14	142.85	148.40	144.99	142.04	142.23	143.09	143.03	
7	141.76	141.84	142.10	141.89	142.07	142.98	148.11	144.81	141.98	142.27	143.24	142.97	
8	141.79	141.87	142.18	141.93	142.12	145.78	147.89	144.65	141.95	142.27	143.41	142.93	
9	141.93	141.87	142.35	142.00	142.13	149.20	147.69	144.49	141.98	142.23	143.35	142.95	
10	142.06	141.91	142.48	142.13	142.15	149.33	147.50	144.33	141.95	142.21	143.32	142.96	
11	142.08	141.93	142.85	142.17	142.10	148.71	147.35	144.20	141.92	142.20	143.32	142.93	
12	142.16	141.93	143.11	142.11	142.09	148.00	147.25	144.04	141.92	142.19	143.31	142.93	
13	142.17	141.94	142.90	142.03	142.18	147.22	147.17	143.90	141.91	142.20	143.33	142.92	
14	142.06	141.99	142.67	142.02	142.15	146.47	147.09	143.72	141.97	142.18	143.36	142.91	
15	141.93	142.11	142.40	141.98	142.11	145.82	147.01	143.49	142.01	142.17	143.35	142.91	
16	141.84	142.12	142.25	141.97	142.12	145.40	146.92	143.22	142.02	142.19	143.40	142.80	
17	141.82	142.11	142.15	141.96	142.06	145.20	146.83	142.98	142.02	142.18	143.41	142.63	
18	141.83	142.13	141.99	141.85	142.06	145.20	146.76	142.80	142.07	142.18	143.40	142.58	
19	141.83	142.21	141.83	141.98	142.03	145.31	146.69	142.89	142.10	142.18	143.33	142.50	
20	141.85	142.29	141.73	142.27	142.11	145.30	146.60	143.03	142.09	142.19	143.25	142.51	
21	141.89	142.27	141.68	142.83	142.11	145.19	146.57	143.01	142.01	142.20	143.24	142.64	
22	141.91	142.28	141.68	143.52	142.06	144.92	146.51	142.80	141.95	142.21	143.28	142.75	
23	141.87	142.34	141.67	143.48	142.03	144.81	146.40	142.61	142.09	142.24	143.28	142.79	
24	141.82	142.33	141.67	143.18	142.18	144.92	146.27	142.45	142.20	142.23	143.26	142.82	
25	141.81	142.27	141.66	142.87	142.35	145.48	146.10	142.32	142.23	142.23	143.28	142.83	
26	141.83	142.25	141.65	142.71	142.38	146.17	146.04	142.25	142.20	142.22	143.19	142.88	
27	141.80	142.28	141.65	142.59	142.32	146.59	146.16	142.18	142.22	142.23	143.22	143.01	
28	141.79	142.37	141.71	142.51	142.35	147.41	146.15	142.11	142.23	142.23	143.24	143.07	
29	141.82	142.38	141.72	142.43	142.58	148.28	146.14	142.06	142.19	142.23		143.09	
30	141.92	142.31	141.70	142.28	142.83	148.67	146.11	142.01	142.15	142.24		143.13	
31		142.21		142.24	142.89		145.98		142.15	142.22		143.22	
MEAN	141.84	142.10	142.07	142.23	142.20	145.64	147.22	143.62	142.05	142.20	143.17	142.92	
MAX	142.17	142.38	143.11	143.52	142.89	149.33	149.69	145.82	142.23	142.27	143.41	143.26	149.69
MIN	141.55	141.84	141.65	141.65	142.01	142.67	145.98	142.01	141.91	142.10	142.22	142.50	141.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 149.82 M (MSL), AT 18.00 HOURS, ON OCT 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 140.82 M (MSL), RIVER BED 140.45 M (MSL)
LEFT BANK ELEVATION 151.28 M (MSL)
RIGHT BANK ELEVATION 151.09 M (MSL), DRAINAGE AREA 14426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.84	7.68	10.29	3.77	11.85	25.84	265.51	124.50	7.40	9.90	11.65	35.64	
2	2.44	7.26	9.70	3.55	10.48	24.88	299.57	117.87	7.12	9.38	12.04	35.92	
3	2.52	6.84	9.22	3.33	9.70	21.52	293.50	110.14	6.84	9.38	16.72	35.08	
4	3.00	6.70	8.58	3.44	8.90	20.80	272.50	104.93	7.40	9.70	24.88	32.00	
5	3.66	6.18	8.26	4.88	7.96	24.64	251.30	98.72	8.42	10.87	28.88	30.18	
6	4.10	5.92	7.82	5.66	10.09	25.12	235.64	93.32	8.42	11.85	31.22	29.66	
7	4.62	5.66	9.38	6.31	8.90	28.36	221.83	86.84	7.54	12.63	35.36	28.10	
8	5.01	6.05	10.87	6.84	9.70	122.94	211.49	81.08	7.12	12.63	40.30	27.06	
9	6.84	6.05	14.19	7.82	9.90	275.00	202.22	75.32	7.54	11.85	38.50	27.58	
10	8.74	6.57	16.72	9.90	10.29	281.50	193.62	69.74	7.12	11.46	37.60	27.84	
11	9.06	6.84	25.12	10.68	9.38	250.81	186.90	65.44	6.70	11.26	37.60	27.06	
12	10.48	6.84	31.74	9.54	9.22	216.66	182.42	60.16	6.70	11.07	37.32	27.06	
13	10.68	6.98	26.32	8.26	10.87	181.08	178.84	55.54	6.57	11.26	37.90	26.80	
14	8.74	7.68	20.80	8.10	10.29	149.85	175.28	49.70	7.40	10.87	38.80	26.56	
15	6.84	9.54	15.16	7.54	9.54	124.50	171.78	42.70	7.96	10.68	38.50	26.56	
16	5.66	9.70	12.24	7.40	9.70	108.26	168.00	34.80	8.10	11.07	40.00	23.92	
17	5.40	9.54	10.29	7.26	8.74	100.88	164.22	28.36	8.10	10.87	40.30	19.84	
18	5.53	9.90	7.68	5.79	8.74	100.88	161.28	23.92	8.90	10.87	40.00	18.76	
19	5.53	11.46	5.53	7.54	8.26	104.93	158.43	26.08	9.38	10.87	37.90	17.11	
20	5.79	13.02	4.23	12.63	9.54	104.56	154.92	29.66	9.22	11.07	35.64	17.31	
21	6.31	12.63	3.66	24.64	9.54	100.52	153.75	29.14	7.96	11.26	35.36	20.08	
22	6.57	12.82	3.66	43.60	8.74	90.80	151.41	23.92	7.12	11.46	36.48	22.72	
23	6.05	13.99	3.55	42.40	8.26	86.84	147.12	19.39	9.22	12.04	36.48	23.68	
24	5.40	13.80	3.55	33.68	10.87	90.80	142.05	16.14	11.26	11.85	35.92	24.40	
25	5.27	12.63	3.44	25.60	14.19	111.28	135.42	13.60	11.85	11.85	36.48	24.64	
26	5.53	12.24	3.33	21.76	14.77	138.15	133.08	12.24	11.26	11.65	33.96	25.84	
27	5.14	12.82	3.33	18.97	13.60	154.53	137.76	10.87	11.65	11.85	34.80	29.14	
28	5.01	14.58	3.99	17.31	14.19	189.59	137.37	9.54	11.85	11.85	35.36	30.70	
29	5.40	14.77	4.10	15.75	18.76	229.88	136.98	8.74	11.07	11.85		31.22	
30	6.70	13.41	3.88	12.82	24.64	248.85	135.81	7.96	10.29	12.04		32.28	
31		11.46		12.04	26.08		130.74		10.29	11.65		34.80	
TOTAL	174.86	301.56	300.63	408.81	355.69	3734.25	5690.74	1530.36	267.77	348.89	945.95	839.54	14899.05 CMSDAY
MEAN	5.83	9.73	10.02	13.19	11.47	124.48	183.57	51.01	8.64	11.25	33.78	27.08	40.82 CMS
MAX	10.68	14.77	31.74	43.60	26.08	281.50	299.57	124.50	11.85	12.63	40.30	35.92	299.57 CMS
MIN	2.44	5.66	3.33	3.33	7.96	20.80	130.74	7.96	6.57	9.38	11.65	17.11	2.44 CMS
RUNOFF	15.108	26.055	25.974	35.321	30.732	322.639	491.680	132.223	23.135	30.144	81.730	72.536	1287.278 MCM

MOMENTARY PEAK 306.40 CMS, AT 149.82 M (MSL), AT 18.00 HOURS, ON OCT 2, 1982

RUNOFF YIELD 2.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

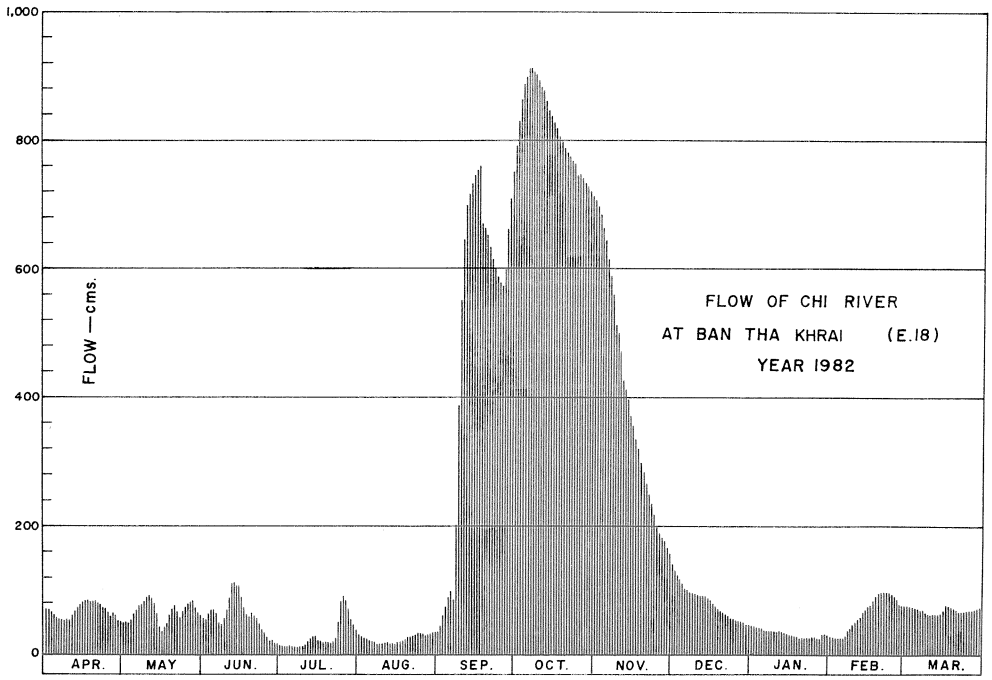
CHI RIVER AT BAN THA KHRAI, ROI ET (E.18)

LOCATION	LAT. 16°-01'-59" N., LONG. 103°-54'-38" E., ON LEFT BANK AT BAN THA KHRAI,AMPHOE SELAPHUM, ROI ET.
DRAINAGE AREA	41,594 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+122.244 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BESIDE THE OLD STAFF GAGE.
ELEVATION	+132.934 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 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 85 DISCHARGE MEASUREMENTS MADE IN 1982

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.27	123.91	124.00	123.26	123.56	123.66	130.97	130.56	125.43	123.87	123.52	124.44	
2	124.25	123.91	123.96	123.22	123.53	123.86	131.11	130.51	125.28	123.85	123.49	124.43	
3	124.21	123.91	124.07	123.21	123.47	124.14	131.26	130.44	125.18	123.83	123.48	124.42	
4	124.11	123.98	124.19	123.19	123.45	124.35	131.34	130.33	125.08	123.79	123.48	124.41	
5	124.06	124.12	124.24	123.17	123.39	124.53	131.39	130.20	124.98	123.75	123.47	124.40	
6	123.96	124.25	124.19	123.16	123.35	124.66	131.42	130.04	124.90	123.73	123.47	124.39	
7	123.99	124.32	124.03	123.13	123.35	124.44	131.42	129.85	124.83	123.71	123.57	124.35	
8	123.96	124.34	123.86	123.12	123.26	126.21	131.41	129.63	124.78	123.70	123.73	124.33	
9	123.99	124.39	123.90	123.10	123.27	127.72	131.39	129.38	124.73	123.70	123.84	124.28	
10	123.98	124.49	124.16	123.12	123.25	129.07	131.36	129.08	124.71	123.70	123.90	124.26	
11	124.07	124.52	124.39	123.22	123.28	129.64	131.33	128.81	124.70	123.70	123.97	124.24	
12	124.19	124.50	124.71	123.35	123.32	129.89	131.29	128.53	124.70	123.68	124.04	124.22	
13	124.28	124.40	124.78	123.45	123.32	130.03	131.24	128.28	124.68	123.64	124.10	124.20	
14	124.34	124.19	124.72	123.53	123.29	130.12	131.20	128.06	124.66	123.62	124.24	124.19	
15	124.38	123.82	124.73	123.49	123.28	130.20	131.16	127.90	124.64	123.60	124.38	124.22	
16	124.41	123.68	124.49	123.39	123.34	130.27	131.13	127.72	124.57	123.59	124.44	124.37	
17	124.42	123.80	124.28	123.32	123.40	130.32	131.08	127.54	124.49	123.57	124.46	124.46	
18	124.40	123.92	124.10	123.33	123.42	130.34	131.04	127.37	124.42	123.55	124.55	124.46	
19	124.41	124.13	124.09	123.29	123.44	130.32	130.99	127.20	124.36	123.54	124.73	124.44	
20	124.39	124.27	124.12	123.25	123.55	130.26	130.96	127.04	124.29	123.51	124.79	124.38	
21	124.36	124.33	124.07	123.29	123.56	130.17	130.93	126.88	124.24	123.51	124.81	124.32	
22	124.33	124.21	123.98	123.28	123.56	130.03	130.90	126.68	124.20	123.51	124.80	124.28	
23	124.29	124.02	123.87	123.44	123.59	129.91	130.87	126.50	124.16	123.50	124.79	124.25	
24	124.25	124.18	123.72	123.93	123.59	129.81	130.85	126.32	124.12	123.50	124.77	124.25	
25	124.13	124.29	123.60	124.43	123.61	129.74	130.76	126.15	124.06	123.50	124.76	124.29	
26	124.06	124.37	123.49	124.55	123.61	129.70	130.78	126.02	124.01	123.50	124.70	124.32	
27	124.13	124.40	123.40	124.43	123.57	129.90	130.74	125.92	124.01	123.49	124.56	124.34	
28	124.11	124.42	123.36	124.22	123.57	130.37	130.71	125.84	124.00	123.49	124.47	124.34	
29	123.97	124.30	123.33	124.02	123.62	130.63	130.68	125.75	123.97	123.64		124.36	
30	123.91	124.19	123.29	123.84	123.66	130.79	130.63	125.61	123.93	123.63		124.41	
31		124.13		123.71	123.65		130.60		123.89	123.57		124.46	
MEAN	124.19	124.18	124.04	123.50	123.46	128.50	131.06	128.00	124.52	123.63	124.19	124.34	
MAX	124.42	124.52	124.78	124.55	123.66	130.79	131.42	130.56	125.43	123.87	124.81	124.46	131.42
MIN	123.91	123.68	123.29	123.10	123.25	123.66	130.60	125.61	123.89	123.49	123.47	124.19	123.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 131.42 M (MSL), AT 10.00 HOURS, ON OCT 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 122.24 M (MSL), RIVER BED 120.45 M (MSL)
LEFT BANK ELEVATION 133.16 M (MSL)
RIGHT BANK ELEVATION 132.71 M (MSL), DRAINAGE AREA 41594 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	72.9	49.6	55.0	15.4	29.0	34.6	788.8	704.8	140.4	43.5	26.0	73.6	
2	71.5	49.6	52.6	13.8	27.5	46.6	822.4	695.8	128.6	42.5	24.6	73.0	
3	68.7	49.6	59.2	13.4	24.5	63.8	862.0	683.8	121.6	41.5	24.2	72.4	
4	61.7	53.8	67.3	12.6	23.5	78.5	886.0	665.1	114.6	39.5	24.2	71.8	
5	58.6	62.4	70.8	11.8	20.6	91.4	901.0	643.0	107.6	37.5	23.8	71.2	
6	52.6	71.5	67.3	11.4	19.0	101.8	911.2	617.6	102.0	36.5	23.8	70.5	
7	54.4	76.4	56.8	10.2	19.0	84.8	911.2	592.5	97.7	35.5	28.5	68.1	
8	52.6	77.8	46.6	9.8	15.4	247.1	907.6	563.9	94.6	35.0	36.5	66.8	
9	54.4	81.3	49.0	9.0	15.8	421.4	901.0	531.6	91.5	35.0	42.0	64.0	
10	53.8	88.3	65.2	9.8	15.0	591.1	892.0	497.8	90.3	35.0	45.0	63.0	
11	59.2	90.6	81.3	13.8	16.2	665.6	883.0	468.1	89.7	35.0	48.5	62.0	
12	67.3	89.0	105.8	19.0	17.8	700.6	871.0	437.3	89.7	34.0	52.0	61.0	
13	73.6	82.0	111.4	23.5	17.8	720.2	856.0	409.8	88.4	32.0	55.0	60.0	
14	77.8	67.3	106.6	27.5	16.6	732.8	844.0	385.6	87.2	31.0	62.0	59.5	
15	80.6	44.2	107.4	25.5	16.2	744.0	834.4	368.0	86.0	30.0	69.9	61.0	
16	82.7	35.8	88.3	20.6	18.6	753.8	827.2	348.2	81.6	29.5	73.6	69.3	
17	83.4	43.0	73.6	17.8	21.0	760.8	815.2	330.0	76.7	28.5	74.9	74.9	
18	82.0	50.2	61.0	18.2	22.0	666.8	805.6	313.0	72.4	27.5	80.4	74.9	
19	82.7	63.1	60.4	16.6	23.0	663.4	793.6	296.0	68.7	27.0	91.5	73.6	
20	81.3	72.9	62.4	15.0	28.5	653.2	786.4	280.0	64.5	25.5	95.2	69.9	
21	79.2	77.1	59.2	16.6	29.0	637.9	779.2	264.0	62.0	25.5	96.4	66.2	
22	77.1	68.7	53.8	16.2	29.0	616.2	772.0	245.2	60.0	25.5	95.8	64.0	
23	74.3	56.2	47.2	23.0	30.5	600.3	765.4	229.0	58.0	25.0	95.2	62.5	
24	71.5	66.6	38.2	50.8	30.5	587.3	761.0	212.8	56.0	25.0	94.0	62.5	
25	63.1	74.3	31.0	84.1	31.6	578.2	742.0	198.0	53.0	25.0	93.4	64.5	
26	58.6	79.9	25.5	93.0	31.6	573.0	746.0	187.6	50.5	25.0	89.7	66.2	
27	63.1	82.0	21.0	84.1	29.5	599.0	738.0	179.6	50.5	24.6	81.0	67.5	
28	61.7	83.4	19.4	69.4	29.5	671.9	732.0	173.2	50.0	24.6	75.5	67.5	
29	53.2	75.0	18.2	56.2	32.2	717.4	726.4	166.0	48.5	32.0		68.7	
30	49.6	67.3	16.6	45.4	34.6	748.0	717.4	154.8	46.5	31.5		71.8	
31		63.1		37.6	34.0		712.0		44.5	28.5		74.9	
TOTAL	2023.2	2092.0	1778.1	891.1	749.0	15151.5	25291.0	11842.1	2473.3	973.7	1722.6	2096.8	67084.4 CMSDAY
MEAN	67.4	67.5	59.3	28.7	24.2	505.0	815.8	394.7	79.8	31.4	61.5	67.6	183.8 CMS
MAX	83.4	90.6	111.4	93.0	34.6	760.8	911.2	704.8	140.4	43.5	96.4	74.9	911.2 CMS
MIN	49.6	35.8	16.6	9.0	15.0	34.6	712.0	154.8	44.5	24.6	23.8	59.5	9.0 CMS
RUNOFF	174.80	180.75	153.63	76.99	64.71	1309.09	2185.14	1023.16	213.69	84.13	148.83	181.16	5796.09 MCM

MOMENTARY PEAK 911.20 CMS, AT 131.42 M (MSL), AT 10.00 HOURS, ON OCT 7, 1982

RUNOFF YIELD 4.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

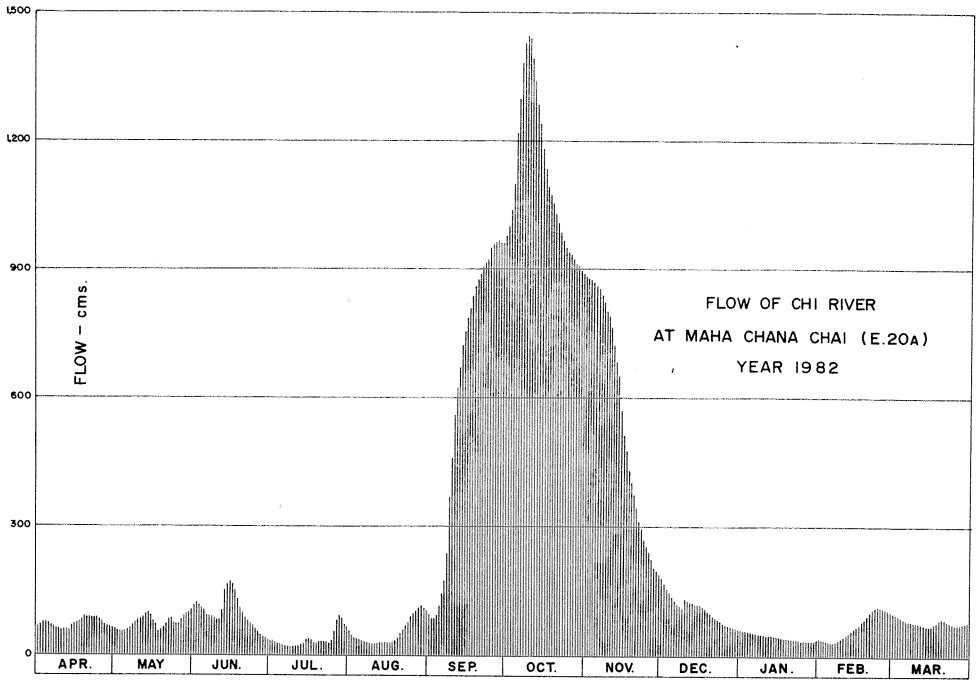
CHI RIVER AT MAHA CHANA CHAI, YASOTHON (E.20A)

LOCATION	LAT. 15°-31'-59" N., LONG. 104°-15'-24" E., ON RIGHT BANK ABOUT 800 METERS UPSTREAM FROM E.20 STATION, AMPHOE MAHA CHANA CHAI, YASOTHON.
DRAINAGE AREA	47,818 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+112.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+127.138 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BECAUSE OF BACKWATER EFFECT.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 108 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	115.26	115.16	115.83	114.74	115.08	115.56	121.42	121.46	116.89	115.16	114.85	115.63	
2	115.33	115.09	115.88	114.78	114.96	115.45	121.49	121.45	116.75	115.13	114.83	115.56	
3	115.37	115.06	115.81	114.69	114.87	115.46	121.59	121.44	116.61	115.11	114.80	115.52	
4	115.35	115.06	115.71	114.63	114.83	115.51	121.75	121.43	116.48	115.09	114.76	115.48	
5	115.33	115.07	115.68	114.60	114.81	115.71	121.92	121.42	116.36	115.06	114.75	115.46	
6	115.27	115.10	115.56	114.57	114.77	116.03	122.09	121.40	116.27	115.04	114.74	115.44	
7	115.23	115.19	115.53	114.56	114.72	116.45	122.22	121.38	116.17	115.02	114.73	115.43	
8	115.20	115.29	115.53	114.53	114.68	117.08	122.29	121.34	116.09	115.00	114.73	115.43	
9	115.17	115.37	115.48	114.52	114.68	117.91	122.31	121.29	116.03	114.99	114.76	115.41	
10	115.15	115.42	115.42	114.52	114.67	118.72	122.30	121.22	115.98	114.96	114.85	115.40	
11	115.15	115.46	115.45	114.54	114.65	119.39	122.28	121.13	115.92	114.95	114.93	115.37	
12	115.14	115.52	115.70	114.54	114.68	119.83	122.22	121.01	115.88	114.95	114.98	115.35	
13	115.17	115.56	116.02	114.55	114.68	120.12	122.16	120.87	115.86	114.94	115.04	115.33	
14	115.27	115.62	116.28	114.66	114.68	120.36	122.10	120.65	115.83	114.93	115.09	115.31	
15	115.32	115.57	116.39	114.76	114.68	120.55	122.04	120.41	115.82	114.92	115.15	115.30	
16	115.36	115.41	116.38	114.83	114.71	120.70	121.97	120.12	115.80	114.89	115.23	115.29	
17	115.39	115.21	116.25	114.81	114.67	120.83	121.91	119.80	115.77	114.88	115.33	115.31	
18	115.45	115.07	116.06	114.74	114.71	120.95	121.86	119.48	115.72	114.87	115.40	115.39	
19	115.52	115.10	115.83	114.67	114.76	121.03	121.82	119.15	115.65	114.86	115.45	115.45	
20	115.51	115.18	115.63	114.65	114.80	121.09	121.78	118.89	115.60	114.84	115.53	115.47	
21	115.51	115.32	115.49	114.71	114.95	121.15	121.74	118.64	115.55	114.83	115.64	115.46	
22	115.50	115.46	115.42	114.73	115.10	121.20	121.70	118.40	115.49	114.81	115.72	115.42	
23	115.48	115.48	115.36	114.71	115.22	121.24	121.66	118.16	115.45	114.79	115.76	115.38	
24	115.47	115.41	115.28	114.68	115.34	121.28	121.62	117.95	115.41	114.79	115.78	115.34	
25	115.45	115.30	115.17	114.76	115.47	121.34	121.59	117.76	115.38	114.78	115.78	115.32	
26	115.41	115.33	115.08	115.05	115.59	121.36	121.58	117.58	115.32	114.77	115.77	115.32	
27	115.33	115.43	114.98	115.36	115.68	121.37	121.55	117.39	115.28	114.77	115.75	115.33	
28	115.26	115.54	114.90	115.49	115.74	121.37	121.53	117.24	115.24	114.77	115.71	115.35	
29	115.26	115.60	114.83	115.47	115.80	121.36	121.52	117.12	115.22	114.77		115.37	
30	115.24	115.60	114.78	115.35	115.73	121.37	121.50	117.01	115.20	114.77		115.37	
31		115.67		115.22	115.66		121.48		115.19	114.82		115.39	
MEAN	115.33	115.34	115.59	114.79	115.01	119.39	121.84	119.75	115.81	114.91	115.21	115.40	
MAX	115.52	115.67	116.39	115.49	115.80	121.37	122.31	121.46	116.89	115.16	115.78	115.63	122.31
MIN	115.14	115.06	114.78	114.52	114.65	115.45	121.42	117.01	115.19	114.77	114.73	115.29	114.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 122.31 M (MSL), AT 16.00 HOURS, ON OCT 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 112.00 M (MSL), RIVER BED 113.07 M (MSL)
LEFT BANK ELEVATION 126.91 M (MSL)
RIGHT BANK ELEVATION 126.92 M (MSL), DRAINAGE AREA 47818 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	66.8	59.2	116.7	30.9	53.6	92.4	981.2	881.2	177.2	59.2	37.8	98.7	
2	72.4	54.3	121.2	33.4	45.2	82.5	999.4	877.0	166.0	57.1	36.5	92.4	
3	75.6	52.2	114.9	27.8	39.1	83.4	1038.0	872.8	154.8	55.7	34.6	88.8	
4	74.0	52.2	105.9	24.5	36.5	87.9	1109.0	868.6	144.4	54.3	32.1	85.2	
5	72.4	52.9	103.2	22.8	35.2	105.9	1196.8	864.4	134.8	52.2	31.5	83.4	
6	67.6	55.0	92.4	21.2	32.7	135.0	1294.0	856.0	127.6	50.8	30.9	81.6	
7	64.4	61.3	89.7	20.7	29.6	179.3	1378.4	848.8	119.6	49.4	30.3	80.7	
8	62.0	69.2	89.7	19.1	27.3	271.3	1428.8	834.4	113.2	48.0	30.3	80.7	
9	59.9	75.6	85.2	18.6	27.3	367.7	1443.6	816.6	108.4	47.3	32.1	78.9	
10	58.5	79.8	79.8	18.6	26.7	468.8	1436.0	792.8	130.2	45.2	37.8	78.0	
11	58.5	83.4	82.5	19.6	25.6	562.6	1377.2	764.3	124.8	44.5	43.1	75.6	
12	57.8	88.8	105.0	19.6	27.3	624.5	1326.8	728.9	121.2	44.5	46.6	74.0	
13	59.9	92.4	134.0	20.2	27.3	671.6	1280.4	692.2	119.4	43.8	50.8	72.4	
14	67.6	97.8	160.0	26.2	27.3	716.4	1236.0	665.0	116.7	43.1	54.3	70.8	
15	71.6	93.3	171.0	32.1	27.3	752.5	1192.8	587.8	115.8	42.4	58.5	70.0	
16	74.8	78.9	170.0	36.5	29.0	782.0	1144.8	535.6	114.0	40.4	64.4	69.2	
17	77.2	62.8	157.0	35.2	26.7	808.6	1106.4	484.0	111.3	39.7	72.4	70.8	
18	82.5	52.9	138.0	30.9	29.0	836.0	1076.8	439.2	106.8	39.1	78.0	77.2	
19	88.8	55.0	116.7	26.7	32.1	855.8	1053.6	405.5	100.5	38.4	82.5	82.5	
20	87.9	60.6	98.7	25.6	34.6	871.4	1031.6	376.9	96.0	37.2	89.7	84.3	
21	87.9	71.6	86.1	29.0	44.5	888.0	1010.8	342.5	91.5	36.5	99.6	83.4	
22	87.0	83.4	79.8	30.3	55.0	902.0	990.0	317.0	86.1	35.2	106.8	79.8	
23	85.2	85.2	74.8	29.0	63.6	914.8	970.0	293.0	82.5	34.0	110.4	76.4	
24	84.3	78.9	68.4	27.3	73.2	927.6	950.0	272.0	78.9	34.0	112.2	73.2	
25	82.5	70.0	59.9	32.1	84.3	950.8	935.8	253.0	76.4	33.4	112.2	71.6	
26	78.9	72.4	53.6	51.5	95.1	959.2	931.6	235.2	71.6	32.7	111.3	71.6	
27	72.4	80.7	46.6	74.8	103.2	963.4	919.0	218.1	68.4	32.7	109.5	72.4	
28	66.8	90.6	41.0	86.1	108.6	963.4	910.6	205.2	65.2	32.7	105.9	74.0	
29	66.8	96.0	36.5	84.3	114.0	959.2	906.4	195.6	63.6	32.7		75.6	
30	65.2	96.0	33.4	74.0	107.7	963.4	898.0	186.8	62.0	32.7		75.6	
31		102.3		63.6	101.4		889.6		61.3	35.9		77.2	
TOTAL	2177.2	2304.7	2911.7	1092.2	1590.0	18747.4	34443.4	16710.4	3310.2	1304.8	1842.1	2426.0	88860.1 CMSDAY
MEAN	72.6	74.3	97.1	35.2	51.3	624.9	1111.1	557.0	106.8	42.1	65.8	78.3	243.5 CMS
MAX	88.8	102.3	171.0	86.1	114.0	963.4	1443.6	881.2	177.2	59.2	112.2	98.7	1443.6 CMS
MIN	57.8	52.2	33.4	18.6	25.6	82.5	889.6	186.8	61.3	32.7	30.3	69.2	18.6 CMS
RUNOFF	188.11	199.13	251.57	94.37	137.38	1619.78	2975.91	1443.78	286.00	112.73	159.16	209.61	7677.51 MCM

MOMENTARY PEAK 1443.60 CMS, AT 122.31 M (MSL), AT 16.00 HOURS, ON OCT 9, 1982

RUNOFF YIELD 5.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 30.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

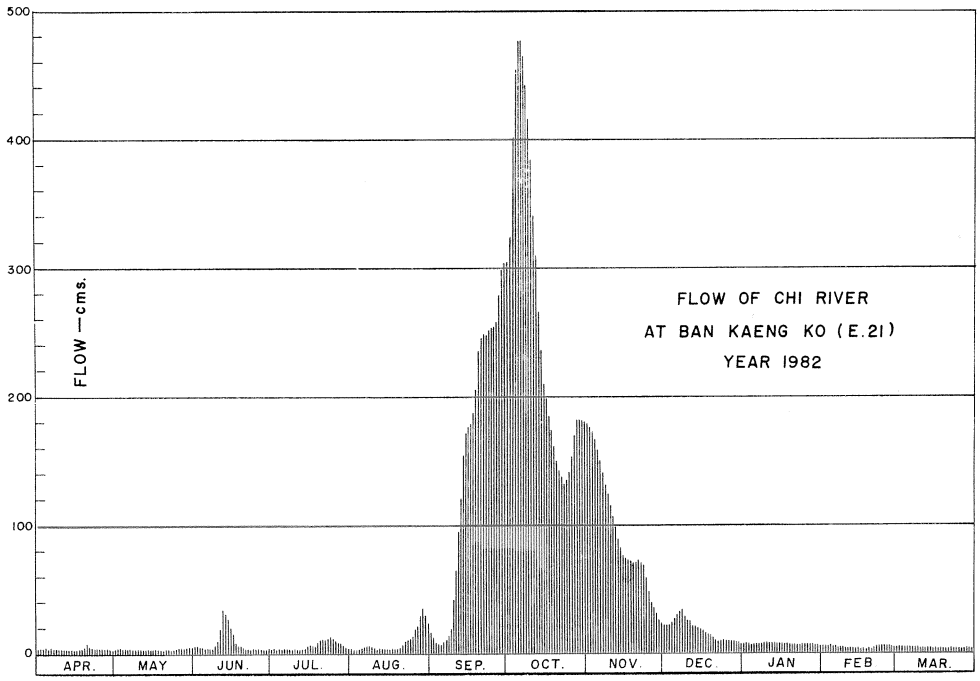
CHI RIVER AT BAN KAENG KO, CHAIYAPHUM (E.21)

LOCATION	LAT. 15°-45'-07" N., LONG. 102°-15'-24" E., ON LEFT BANK ABOUT 75 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	8,912 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE AUTOMATIC GAGE BUILDING.
ELEVATION	+9.433 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 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 FLOAT	-
RATED BY CURRENT METER	1968-1971, 1973-1974, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.24	1.26	1.47	1.30	1.36	1.81	8.12	6.66	1.96	1.57	1.50	1.43	
2	1.24	1.26	1.47	1.31	1.34	1.69	8.22	6.60	1.94	1.57	1.50	1.43	
3	1.31	1.24	1.44	1.31	1.31	1.60	8.39	6.49	1.95	1.57	1.50	1.45	
4	1.48	1.22	1.41	1.33	1.32	1.58	8.53	6.35	2.01	1.58	1.48	1.44	
5	1.42	1.20	1.38	1.31	1.35	1.58	8.59	6.21	2.08	1.58	1.45	1.43	
6	1.37	1.19	1.34	1.30	1.52	1.61	8.59	5.96	2.12	1.57	1.43	1.42	
7	1.35	1.18	1.32	1.29	1.53	1.66	8.57	5.69	2.14	1.57	1.42	1.43	
8	1.33	1.18	1.37	1.29	1.50	1.77	8.54	5.41	2.15	1.57	1.41	1.43	
9	1.30	1.18	1.49	1.31	1.45	1.98	8.49	5.08	2.08	1.58	1.40	1.42	
10	1.27	1.20	1.70	1.32	1.40	2.41	8.39	4.79	2.03	1.60	1.39	1.42	
11	1.25	1.22	1.96	1.33	1.37	3.22	8.27	4.54	1.99	1.60	1.39	1.43	
12	1.24	1.21	2.19	1.35	1.37	4.22	8.09	4.24	1.96	1.62	1.39	1.43	
13	1.24	1.20	2.14	1.35	1.41	5.45	7.85	3.84	1.92	1.62	1.39	1.42	
14	1.22	1.20	2.06	1.38	1.40	6.30	7.64	3.51	1.88	1.61	1.39	1.43	
15	1.23	1.22	1.94	1.49	1.38	6.67	7.39	3.20	1.85	1.60	1.40	1.43	
16	1.25	1.25	1.75	1.55	1.36	6.67	7.12	3.02	1.83	1.60	1.39	1.43	
17	1.25	1.24	1.60	1.55	1.37	6.76	6.81	2.98	1.80	1.60	1.38	1.40	
18	1.31	1.27	1.49	1.54	1.39	7.07	6.48	2.95	1.77	1.58	1.37	1.38	
19	1.46	1.28	1.48	1.67	1.38	7.48	6.17	2.91	1.75	1.56	1.35	1.37	
20	1.56	1.27	1.44	1.68	1.41	7.70	5.94	2.96	1.72	1.54	1.39	1.36	
21	1.52	1.25	1.39	1.72	1.53	7.77	5.73	3.03	1.69	1.54	1.44	1.35	
22	1.43	1.25	1.37	1.67	1.64	7.77	5.51	2.93	1.67	1.56	1.45	1.37	
23	1.36	1.23	1.35	1.71	1.69	7.76	5.40	2.71	1.66	1.58	1.45	1.38	
24	1.35	1.28	1.34	1.71	1.69	7.81	5.56	2.51	1.67	1.56	1.46	1.39	
25	1.35	1.37	1.32	1.68	1.74	7.82	5.86	2.38	1.67	1.54	1.46	1.39	
26	1.35	1.37	1.31	1.63	1.91	7.82	6.20	2.26	1.65	1.55	1.46	1.39	
27	1.34	1.35	1.30	1.60	1.99	7.87	6.64	2.19	1.63	1.55	1.44	1.36	
28	1.33	1.34	1.30	1.57	2.15	8.04	6.77	2.13	1.62	1.54	1.42	1.37	
29	1.30	1.38	1.30	1.52	2.21	8.10	6.76	2.07	1.62	1.53		1.40	
30	1.28	1.42	1.29	1.46	2.11	8.12	6.74	1.99	1.61	1.52		1.41	
31		1.44		1.39	1.96		6.70		1.59	1.51		1.43	
MEAN	1.33	1.26	1.52	1.47	1.57	5.27	7.23	3.92	1.84	1.57	1.42	1.41	
MAX	1.56	1.44	2.19	1.72	2.21	8.12	8.59	6.66	2.15	1.62	1.50	1.45	8.59
MIN	1.22	1.18	1.29	1.29	1.31	1.58	5.40	1.99	1.59	1.51	1.35	1.35	1.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.60 M (A.D), AT 21.00 HOURS, ON OCT 5, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.06 M (A.D)
LEFT BANK ELEVATION 12.18 M (A.D)
RIGHT BANK ELEVATION 12.20 M (A.D), DRAINAGE AREA 8912 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.20	2.40	5.40	2.80	3.52	16.40	304.00	177.40	22.40	7.40	6.00	4.60	
2	2.20	2.40	5.40	2.92	3.28	11.60	324.80	175.00	21.60	7.40	6.00	4.60	
3	2.92	2.20	4.80	2.92	2.92	8.00	369.20	170.60	22.00	7.40	6.00	5.00	
4	5.60	2.00	4.20	3.16	3.04	7.60	439.20	165.00	24.60	7.60	5.60	4.80	
5	4.40	1.80	3.76	2.92	3.40	7.60	477.60	159.40	28.80	7.60	5.00	4.60	
6	3.64	1.70	3.28	2.80	6.40	8.40	477.60	149.40	31.20	7.40	4.60	4.40	
7	3.40	1.60	3.04	2.70	6.60	10.40	464.80	140.70	32.40	7.40	4.40	4.60	
8	3.16	1.60	3.64	2.70	6.00	14.80	445.60	132.30	33.00	7.40	4.20	4.60	
9	2.80	1.60	5.80	2.92	5.00	23.20	415.20	122.40	28.80	7.60	4.00	4.40	
10	2.50	1.80	12.00	3.04	4.00	50.80	369.20	113.70	25.80	8.00	3.88	4.40	
11	2.30	2.00	22.40	3.16	3.64	75.40	336.80	106.20	23.60	8.00	3.88	4.60	
12	2.20	1.90	35.40	3.40	3.64	97.00	298.10	97.50	22.40	8.80	3.88	4.60	
13	2.20	1.80	32.40	3.40	4.20	133.50	258.00	87.80	20.80	8.80	3.88	4.40	
14	2.00	1.80	27.60	3.76	4.00	163.00	234.00	81.20	19.20	8.40	3.88	4.60	
15	2.10	2.00	21.60	5.80	3.76	177.80	211.40	75.00	18.00	8.00	4.00	4.60	
16	2.30	2.30	14.00	7.00	3.52	177.80	196.00	72.30	17.20	8.00	3.88	4.60	
17	2.30	2.20	8.00	7.00	3.64	181.40	183.40	71.70	16.00	8.00	3.76	4.00	
18	2.92	2.50	5.80	6.80	3.88	193.80	170.20	71.25	14.80	7.60	3.64	3.76	
19	5.20	2.60	5.60	10.80	3.76	218.40	157.80	70.65	14.00	7.20	3.40	3.64	
20	7.20	2.50	4.80	11.20	4.20	240.00	148.60	71.40	12.80	6.80	3.88	3.52	
21	6.40	2.30	3.88	12.80	6.60	248.40	141.90	72.45	11.60	6.80	4.80	3.40	
22	4.60	2.30	3.64	10.80	9.60	248.40	135.30	70.95	10.80	7.20	5.00	3.64	
23	3.52	2.10	3.40	12.40	11.60	247.20	132.00	68.10	10.40	7.60	5.00	3.76	
24	3.40	2.60	3.28	12.40	11.60	253.20	136.80	58.90	10.80	7.20	5.20	3.88	
25	3.40	3.64	3.04	11.20	13.60	254.40	145.80	48.40	10.80	6.80	5.20	3.88	
26	3.40	3.64	2.92	9.20	20.40	254.40	159.00	39.60	10.00	7.00	5.20	3.88	
27	3.28	3.40	2.80	8.00	23.60	260.40	176.60	35.40	9.20	7.00	4.80	3.52	
28	3.16	3.28	2.80	7.40	33.00	288.60	181.80	31.80	8.80	6.80	4.40	3.64	
29	2.80	3.76	2.80	6.40	36.60	300.00	181.40	28.20	8.80	6.60		4.00	
30	2.60	4.40	2.70	5.20	30.60	304.00	180.60	23.60	8.40	6.40		4.20	
31		4.80		3.88	22.40		179.00		7.80	6.20		4.60	
TOTAL	100.10	76.92	260.18	190.88	302.00	4475.90	8031.70	2788.30	556.80	230.40	127.36	130.72	17271.26 CMSDAY
MEAN	3.34	2.48	8.67	6.16	9.74	149.20	259.09	92.94	17.96	7.43	4.55	4.22	47.32 CMS
MAX	7.20	4.80	35.40	12.80	36.60	304.00	477.60	177.40	33.00	8.80	6.00	5.00	477.60 CMS
MIN	2.00	1.60	2.70	2.70	2.92	7.60	132.00	23.60	7.80	6.20	3.40	3.40	1.60 CMS
RUNOFF	8.649	6.646	22.480	16.492	26.093	386.718	693.939	240.909	48.108	19.907	11.004	11.294	1492.237 MCM

MOMENTARY PEAK 484.00 CMS, AT 8.60 M (A.D), AT 21.00 HOURS, ON OCT 5, 1982

RUNOFF YIELD 5.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 54.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

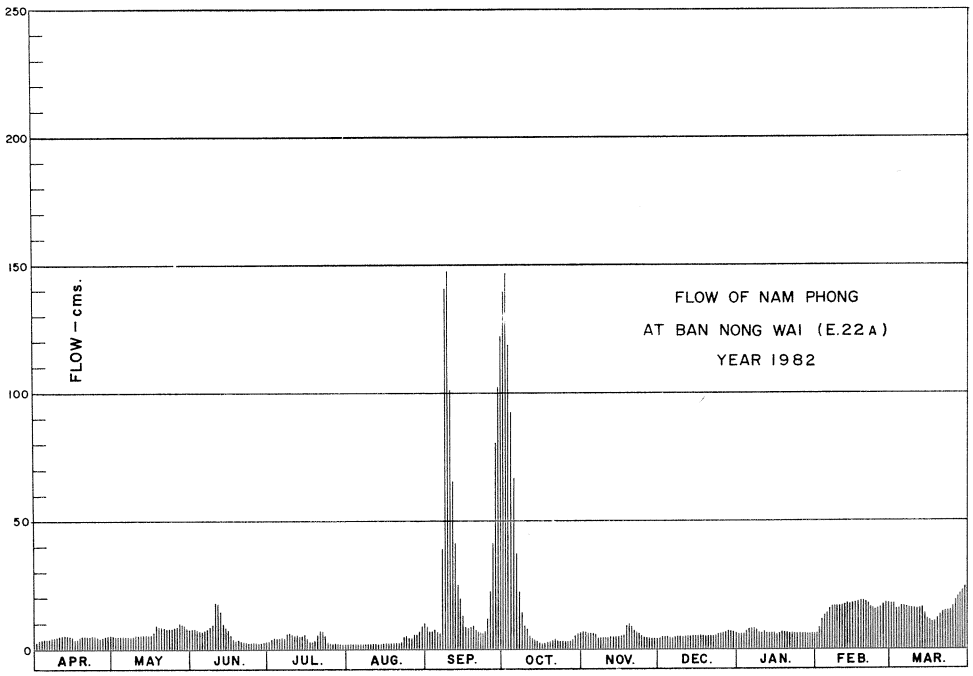
LAM NAM PHONG AT BAN NONG WAI, KHON KAEN (E.22A)

LOCATION	LAT. 16°-43'-29" N., LONG. 102°-48'-21" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM FROM THE BRIDGE OF KHON KAEN-UDON THANI HIGHWAY, AMPHOE NAM PHONG, KHON KAEN.
DRAINAGE AREA	13,183 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+150.92 M.(M.S.L.).
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+161.766 M.(M.S.L.).
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHEMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FARILY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. FLOW REGULATED BY UBONRAT DAM ABOVE GAGE SITES. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1982

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	153.27	153.53	153.70	153.27	153.20	153.77	158.36	153.63	153.41	153.58	153.63	154.39	
2	153.36	153.48	153.71	153.34	153.21	153.66	158.50	153.67	153.45	153.57	153.81	154.39	
3	153.38	153.47	153.70	153.45	153.20	153.65	157.71	153.58	153.45	153.58	154.00	154.25	
4	153.40	153.49	153.65	153.41	153.22	153.71	157.25	153.58	153.45	153.69	154.10	154.24	
5	153.43	153.52	153.68	153.43	153.21	153.63	156.62	153.58	153.45	153.72	154.14	154.31	
6	153.43	153.52	153.66	153.44	153.21	153.56	155.36	153.55	153.43	153.73	154.23	154.33	
7	153.45	153.51	153.75	153.41	153.20	154.04	154.71	153.40	153.45	153.73	154.31	154.33	
8	153.46	153.50	153.78	153.55	153.21	158.34	154.16	153.44	153.46	153.70	154.33	154.26	
9	153.50	153.51	153.85	153.58	153.19	158.52	153.82	153.43	153.46	153.59	154.33	154.27	
10	153.52	153.53	154.36	153.59	153.19	157.49	153.74	153.45	153.47	153.60	154.32	154.26	
11	153.53	153.53	154.37	153.45	153.18	156.55	153.52	153.48	153.50	153.64	154.35	154.25	
12	153.53	153.53	154.15	153.53	153.18	155.61	153.43	153.48	153.51	153.61	154.35	154.26	
13	153.53	153.53	153.89	153.47	153.18	154.85	153.35	153.48	153.53	153.62	154.39	154.28	
14	153.52	153.56	153.77	153.50	153.17	154.54	153.29	153.48	153.53	153.62	154.38	154.21	
15	153.46	153.53	153.70	153.56	153.18	154.04	153.25	153.48	153.53	153.62	154.36	154.04	
16	153.38	153.53	153.56	153.42	153.18	153.79	153.20	153.49	153.53	153.61	154.41	154.02	
17	153.40	153.64	153.40	153.26	153.19	153.74	153.19	153.52	153.52	153.61	154.44	153.96	
18	153.44	153.81	153.28	153.25	153.18	153.77	153.26	153.81	153.52	153.65	154.43	153.95	
19	153.52	153.81	153.35	153.32	153.18	153.83	153.26	153.88	153.51	153.65	154.46	153.99	
20	153.52	153.77	153.29	153.54	153.18	153.68	153.32	153.79	153.47	153.62	154.40	154.09	
21	153.50	153.78	153.28	153.69	153.17	153.63	153.40	153.68	153.52	153.63	154.39	154.18	
22	153.49	153.73	153.24	153.68	153.20	153.63	153.28	153.66	153.50	153.63	154.34	154.20	
23	153.50	153.75	153.23	153.51	153.47	153.59	153.27	153.57	153.52	153.62	154.28	154.18	
24	153.52	153.75	153.24	153.26	153.50	153.67	153.30	153.46	153.60	153.62	154.23	154.18	
25	153.47	153.77	153.25	153.23	153.41	154.08	153.27	153.45	153.61	153.62	154.24	154.30	
26	153.44	153.78	153.26	153.21	153.36	154.67	153.29	153.44	153.60	153.61	154.29	154.47	
27	153.46	153.87	153.23	153.20	153.54	155.49	153.30	153.43	153.64	153.61	154.36	154.52	
28	153.50	153.88	153.25	153.20	153.54	156.82	153.30	153.43	153.65	153.62	154.40	154.57	
29	153.51	153.80	153.26	153.20	153.66	157.43	153.49	153.40	153.64	153.62		154.64	
30	153.53	153.76	153.24	153.18	153.77	157.84	153.59	153.39	153.65	153.62		154.75	
31		153.70		153.19	153.90		153.62		153.60	153.61		154.77	
MEAN	153.46	153.64	153.57	153.40	153.30	154.85	154.21	153.54	153.52	153.63	154.27	154.29	
MAX	153.53	153.88	154.37	153.69	153.90	158.52	158.50	153.88	153.65	153.73	154.46	154.77	158.52
MIN	153.27	153.47	153.23	153.18	153.17	153.56	153.19	153.39	153.41	153.57	153.63	153.95	153.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 159.12 M (MSL), AT 18.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 150.92 M (MSL), RIVER BED 150.59 M (MSL)
LEFT BANK ELEVATION 166.24 M (MSL)
RIGHT BANK ELEVATION 166.26 M (MSL), DRAINAGE AREA 13183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.30	5.03	7.10	2.30	1.60	8.01	140.90	6.19	3.71	5.58	6.19	17.84	
2	3.20	4.48	7.23	3.00	1.70	6.58	146.50	6.71	4.15	5.47	8.56	17.84	
3	3.40	4.37	7.10	4.15	1.60	6.45	114.90	5.58	4.15	5.58	11.60	15.60	
4	3.60	4.59	6.45	3.71	1.80	7.23	96.75	5.58	4.15	6.97	13.20	15.44	
5	3.93	4.92	6.84	3.93	1.70	6.19	74.70	5.58	4.15	7.36	13.84	16.56	
6	3.93	4.92	6.58	4.04	1.70	5.36	39.50	5.25	3.93	7.49	15.28	16.88	
7	4.15	4.81	7.75	3.71	1.60	12.24	24.20	3.60	4.15	7.49	16.56	16.88	
8	4.26	4.70	8.14	5.25	1.70	140.10	14.16	4.04	4.26	7.10	16.88	15.76	
9	4.70	4.81	9.20	5.58	1.52	147.30	8.72	3.93	4.26	5.69	16.88	15.92	
10	4.92	5.03	17.36	5.69	1.52	106.10	7.62	4.15	4.37	5.80	16.72	15.76	
11	5.03	5.03	17.52	4.15	1.44	72.50	4.92	4.48	4.70	6.32	17.20	15.60	
12	5.03	5.03	14.00	5.03	1.44	45.75	3.93	4.48	4.81	5.93	17.20	15.76	
13	5.03	5.03	9.84	4.37	1.44	27.00	3.10	4.48	5.03	6.06	17.84	16.08	
14	4.92	5.36	8.01	4.70	1.36	20.80	2.50	4.48	5.03	6.06	17.68	14.96	
15	4.26	5.03	7.10	5.36	1.44	12.24	2.10	4.48	5.03	6.06	17.36	12.24	
16	3.40	5.03	5.36	3.82	1.44	8.27	1.60	4.59	5.03	5.93	18.20	11.92	
17	3.60	6.32	3.60	2.20	1.52	7.62	1.52	4.92	4.92	5.93	18.80	10.96	
18	4.04	8.56	2.40	2.10	1.44	8.01	2.20	8.56	4.92	6.45	18.60	10.80	
19	4.92	8.56	3.10	2.80	1.44	8.88	2.20	9.68	4.81	6.45	19.20	11.44	
20	4.92	8.01	2.50	5.14	1.44	6.84	2.80	8.27	4.37	6.06	18.00	13.04	
21	4.70	8.14	2.40	6.97	1.36	6.19	3.60	6.84	4.92	6.19	17.84	14.48	
22	4.59	7.49	2.00	6.84	1.60	6.19	2.40	6.58	4.70	6.19	17.04	14.80	
23	4.70	7.75	1.90	4.81	4.37	5.69	2.30	5.47	4.92	6.06	16.08	14.48	
24	4.92	7.75	2.00	2.20	4.70	6.71	2.60	4.26	5.80	6.06	15.28	14.48	
25	4.37	8.01	2.10	1.90	3.71	12.88	2.30	4.15	5.93	6.06	15.44	16.40	
26	4.04	8.14	2.20	1.70	3.20	23.40	2.50	4.04	5.80	5.93	16.24	19.40	
27	4.26	9.52	1.90	1.60	5.14	42.75	2.60	3.93	6.32	5.93	17.36	20.40	
28	4.70	9.68	2.10	1.60	5.14	81.70	2.60	3.93	6.45	6.06	18.00	21.40	
29	4.81	8.40	2.20	1.60	6.58	103.70	4.59	3.60	6.32	6.06		22.80	
30	5.03	7.88	2.00	1.44	8.01	120.10	5.69	3.50	6.45	6.06		25.00	
31		7.10		1.52	10.00		6.06		5.80	5.93		25.40	
TOTAL	129.66	199.48	177.98	113.21	84.65	1072.78	732.06	155.33	153.34	192.31	449.07	506.32	3966.19 CMSDAY
MEAN	4.32	6.43	5.93	3.65	2.73	35.76	23.61	5.18	4.95	6.20	16.04	16.33	10.87 CMS
MAX	5.03	9.68	17.52	6.97	10.00	147.30	146.50	9.68	6.45	7.49	19.20	25.40	147.30 CMS
MIN	2.30	4.37	1.90	1.44	1.36	5.36	1.52	3.50	3.71	5.47	6.19	10.80	1.36 CMS
RUNOFF	11.203	17.235	15.377	9.781	7.314	92.688	63.250	13.421	13.249	16.616	38.800	43.746	342.679 MCM

MOMENTARY PEAK 173.90 CMS, AT 159.12 M (MSL), AT 18.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 0.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

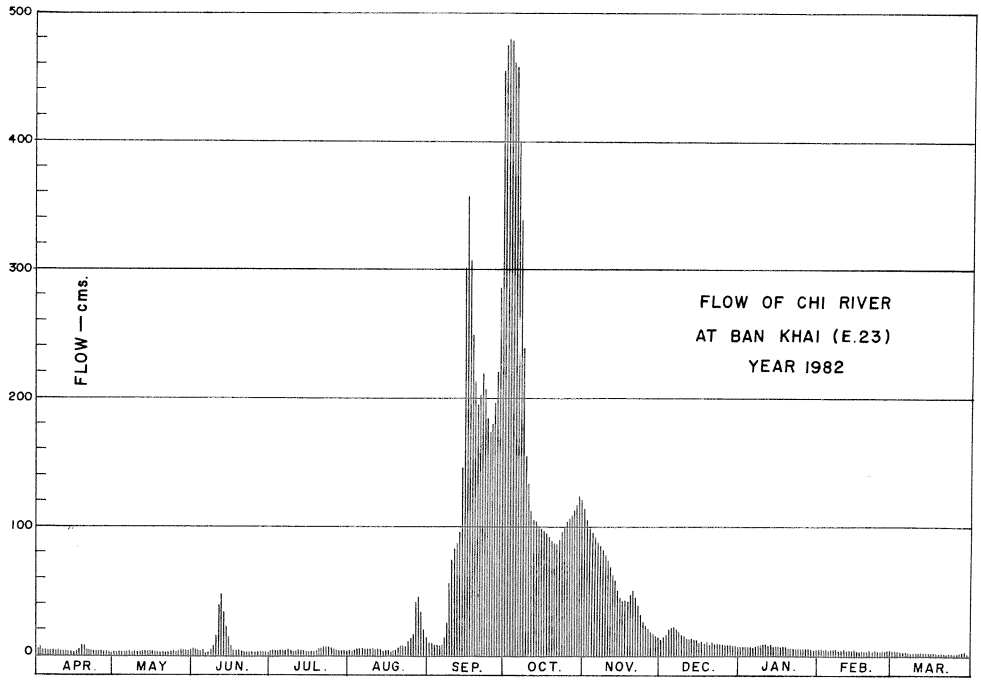
CHI RIVER AT BAN KHAI, CHAIYAPHUM (E.23)

LOCATION	LAT. 15°-40'-49" N., LONG. 102°-00'-47" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	6,835 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+174.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+181.926 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN 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 FLOAT	-
RATED BY CURRENT METER	1968-1974,1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	175.51	175.05	175.73	175.46	175.49	176.33	182.46	181.53	176.59	175.99	175.63	175.42	
2	176.07	175.02	175.57	175.57	175.49	176.21	182.46	181.41	176.73	175.98	175.62	175.41	
3	175.05	174.99	175.42	175.51	175.45	176.14	182.46	181.29	176.99	175.96	175.65	175.36	
4	175.52	174.94	175.32	175.45	175.81	176.15	182.45	181.17	177.30	175.96	175.65	175.36	
5	175.45	174.88	175.25	175.41	175.96	176.21	182.45	181.05	177.53	175.96	175.65	175.32	
6	175.33	174.90	175.22	175.52	175.89	176.18	182.44	180.92	177.46	175.96	175.62	175.31	
7	175.24	174.87	175.21	175.51	175.78	176.63	182.33	180.76	177.25	175.97	175.62	175.31	
8	175.14	174.87	175.51	175.41	175.68	177.73	182.10	180.56	177.03	176.00	175.60	175.30	
9	175.06	174.88	176.12	175.45	175.62	179.82	181.83	180.38	176.84	176.04	175.60	175.29	
10	175.01	174.90	177.08	175.43	175.57	180.40	181.65	180.11	176.66	176.06	175.60	175.25	
11	174.98	174.91	178.69	175.35	175.67	180.75	181.49	179.84	176.59	176.11	175.59	175.22	
12	174.96	174.91	178.95	175.48	175.71	180.98	181.40	179.62	176.58	176.07	175.59	175.21	
13	174.91	174.95	178.21	175.44	175.66	181.36	181.38	179.32	176.54	176.02	175.58	175.21	
14	174.94	174.96	177.27	175.40	175.59	181.95	181.35	179.04	176.50	175.99	175.55	175.18	
15	175.07	174.94	176.48	175.34	175.58	182.35	181.31	178.77	176.40	175.96	175.53	175.19	
16	175.21	175.01	176.02	175.26	175.61	182.40	181.25	178.63	176.33	175.94	175.51	175.15	
17	175.42	174.95	175.77	175.34	175.60	182.33	181.16	178.60	176.24	175.89	175.50	175.12	
18	176.12	174.91	175.68	175.51	175.59	182.20	181.05	178.64	176.20	175.90	175.45	175.09	
19	176.19	174.87	175.58	175.57	175.72	182.10	180.92	179.02	176.17	175.86	175.45	175.03	
20	175.73	174.87	175.51	175.53	176.00	182.06	180.81	179.08	176.15	175.84	175.44	174.99	
21	175.47	174.91	175.43	175.73	176.12	182.10	180.83	178.73	176.11	175.83	175.42	174.99	
22	175.40	175.21	175.37	175.90	176.10	182.14	181.04	178.28	176.09	175.79	175.42	175.00	
23	175.40	175.39	175.34	175.92	176.07	182.09	181.23	177.90	176.08	175.78	175.43	175.00	
24	175.41	175.41	175.29	175.84	176.41	182.01	181.34	177.60	176.08	175.78	175.43	175.00	
25	175.32	175.38	175.27	175.83	176.71	181.97	181.39	177.35	176.09	175.75	175.42	175.04	
26	175.26	175.26	175.26	175.82	177.09	182.04	181.44	177.17	176.07	175.74	175.43	175.12	
27	175.18	175.39	175.25	175.76	178.63	182.11	181.48	177.01	176.06	175.73	175.46	175.12	
28	175.18	175.55	175.26	175.65	178.82	182.18	181.56	176.87	176.05	175.70	175.45	175.08	
29	175.15	175.69	175.25	175.55	178.12	182.36	181.60	176.77	176.03	175.71		175.03	
30	175.13	175.70	175.33	175.56	177.25	182.45	181.65	176.67	176.01	175.67		175.03	
31		175.79		175.56	176.71		181.63		175.98	175.64		174.97	
MEAN	175.33	175.11	175.92	175.55	176.18	180.39	181.61	179.14	176.48	175.89	175.53	175.16	
MAX	176.19	175.79	178.95	175.92	178.82	182.45	182.46	181.53	177.53	176.11	175.65	175.42	182.46
MIN	174.91	174.87	175.21	175.26	175.45	176.14	180.81	176.67	175.98	175.64	175.42	174.97	174.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 182.47 M (MSL), AT 6.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 174.00 M (MSL), RIVER BED 174.60 M (MSL)
LEFT BANK ELEVATION 185.02 M (MSL)
RIGHT BANK ELEVATION 184.39 M (MSL), DRAINAGE AREA 6835 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.55	1.40	4.65	3.30	3.45	10.30	478.42	112.40	12.90	6.90	4.15	3.10	
2	7.70	1.28	3.85	3.85	3.45	9.10	478.42	105.05	14.30	6.80	4.10	3.05	
3	1.40	1.16	3.10	3.55	3.25	8.40	478.42	98.60	16.90	6.60	4.25	2.80	
4	3.60	0.96	2.60	3.25	5.10	8.50	458.00	94.10	20.50	6.60	4.25	2.80	
5	3.25	0.72	2.25	3.05	6.60	9.10	458.00	90.50	23.95	6.60	4.25	2.60	
6	2.65	0.80	2.10	3.60	5.90	8.80	437.61	87.40	22.90	6.60	4.10	2.55	
7	2.20	0.68	2.05	3.55	4.90	13.30	307.00	84.20	19.75	6.70	4.10	2.55	
8	1.76	0.68	3.55	3.05	4.40	26.95	206.00	80.20	17.30	7.00	4.00	2.50	
9	1.44	0.72	8.20	3.25	4.10	65.40	145.80	76.60	15.40	7.40	4.00	2.45	
10	1.24	0.80	17.80	3.15	3.85	77.00	123.00	71.20	13.60	7.60	4.00	2.25	
11	1.12	0.84	42.80	2.75	4.35	84.00	109.45	65.80	12.90	8.10	3.95	2.10	
12	1.04	0.84	48.00	3.40	4.55	88.60	104.50	61.40	12.80	7.70	3.95	2.05	
13	0.84	1.00	34.15	3.20	4.30	102.30	103.40	55.40	12.40	7.20	3.90	2.05	
14	0.96	1.04	20.05	3.00	3.95	168.50	101.75	49.80	12.00	6.90	3.75	1.92	
15	1.48	0.96	11.80	2.70	3.90	321.01	99.55	44.40	11.00	6.60	3.65	1.96	
16	2.05	1.24	7.20	2.30	4.05	356.00	97.00	41.60	10.30	6.40	3.55	1.80	
17	3.10	1.00	4.85	2.70	4.00	307.00	93.80	41.00	9.40	5.90	3.50	1.68	
18	8.20	0.84	4.40	3.55	3.95	241.00	90.50	41.80	9.00	6.00	3.25	1.56	
19	8.90	0.68	3.90	3.85	4.60	206.00	87.40	49.40	8.70	5.60	3.25	1.32	
20	4.65	0.68	3.55	3.65	7.00	195.60	85.20	50.60	8.50	5.40	3.20	1.16	
21	3.35	0.84	3.15	4.65	8.20	206.00	85.60	43.60	8.10	5.30	3.10	1.16	
22	3.00	2.05	2.85	6.00	8.00	220.00	90.20	35.20	7.90	4.95	3.10	1.20	
23	3.00	2.95	2.70	6.20	7.70	203.40	96.20	29.50	7.80	4.90	3.15	1.20	
24	3.05	3.05	2.45	5.40	11.10	182.60	101.20	25.00	7.80	4.90	3.15	1.20	
25	2.60	2.90	2.35	5.30	14.10	173.10	103.95	21.25	7.90	4.75	3.10	1.36	
26	2.30	2.30	2.30	5.20	17.90	190.40	106.70	18.70	7.70	4.70	3.15	1.68	
27	1.92	2.95	2.25	4.80	41.60	209.50	108.90	17.10	7.60	4.65	3.30	1.68	
28	1.92	3.75	2.30	4.25	45.40	234.00	114.80	15.70	7.50	4.50	3.25	1.52	
29	1.80	4.45	2.25	3.75	32.80	328.00	118.00	14.70	7.30	4.55		1.32	
30	1.72	4.50	2.65	3.80	19.75	458.00	123.00	13.70	7.10	4.35		1.32	
31		4.95		3.80	14.10		121.00		6.80	4.20		1.08	
TOTAL	85.79	53.01	256.10	117.85	310.30	4711.86	5712.77	1635.90	368.00	186.35	102.45	58.97	13599.35 CMSDAY
MEAN	2.86	1.71	8.54	3.80	10.01	157.06	184.28	54.53	11.87	6.01	3.66	1.90	37.26 CMS
MAX	8.90	4.95	48.00	6.20	45.40	458.00	478.42	112.40	23.95	8.10	4.25	3.10	478.42 CMS
MIN	0.84	0.68	2.05	2.30	3.25	8.40	85.20	13.70	6.80	4.20	3.10	1.08	0.68 CMS
RUNOFF	7.412	4.580	22.127	10.182	26.810	407.105	493.583	141.342	31.795	16.101	8.852	5.095	1174.984 MCM

MOMENTARY PEAK 498.81 CMS, AT 182.47 M (MSL), AT 6.00 HOURS, ON SEP 30, 1982

RUNOFF YIELD 5.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

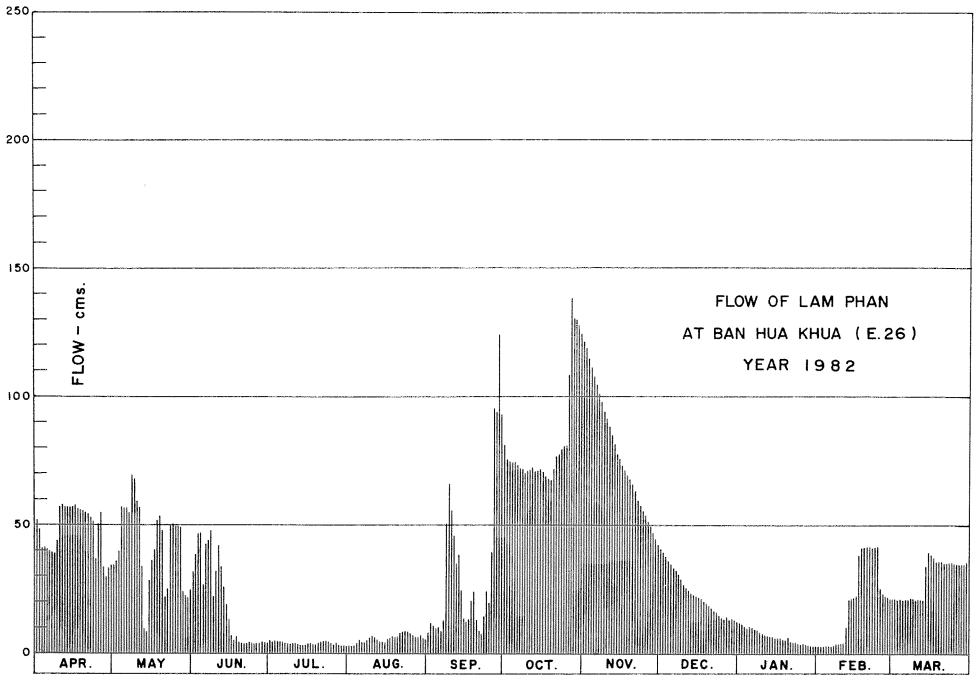
LAM PHAN AT BAN HUA KHUA, KALASIN (E.26)

LOCATION	LAT. 16°-24'-36" N., LONG. 103°-28'-15" E., ON RIGHT BANK AT THE BRIDGE ON THE ROAD, AMPHOE YANG TALAT, KALASIN.
DRAINAGE AREA	6,565 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+134.633 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UPSTREAM SIDE AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+145.395 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY LAM PAO DAM. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.70	136.17	136.07	134.89	134.73	135.17	137.43	138.33	136.37	135.31	134.73	135.73	
2	136.58	136.22	136.35	134.87	134.74	135.31	137.31	138.29	136.31	135.27	134.73	135.73	
3	136.38	136.33	136.54	134.86	134.69	135.25	137.28	138.21	136.28	135.25	134.74	135.71	
4	136.41	136.84	136.56	134.87	134.79	135.18	137.27	138.12	136.23	135.20	134.75	135.72	
5	136.37	136.79	135.92	134.88	134.91	135.26	137.28	138.05	136.16	135.23	134.73	135.71	
6	136.35	136.80	136.42	134.87	134.81	135.15	137.25	137.98	136.12	135.21	134.73	135.71	
7	136.34	136.77	136.49	134.80	134.81	135.32	137.21	137.91	136.09	135.19	134.75	135.71	
8	136.33	137.16	136.58	134.79	134.87	136.55	137.21	137.83	136.02	135.17	134.77	135.73	
9	136.48	137.12	135.74	134.78	134.95	137.06	137.18	137.76	135.98	135.12	134.81	135.72	
10	136.84	136.93	136.08	134.79	135.01	136.87	137.19	137.68	135.92	135.08	134.83	135.71	
11	136.87	136.80	136.40	134.79	134.93	136.60	137.20	137.62	135.87	135.06	134.82	135.71	
12	136.83	136.20	136.09	134.79	134.86	136.17	137.22	137.51	135.82	135.04	135.18	135.70	
13	136.83	135.14	135.92	134.76	134.81	136.29	137.18	137.45	135.77	135.00	135.70	135.69	
14	136.83	135.12	135.60	134.74	134.86	135.88	137.18	137.36	135.75	135.01	135.73	136.18	
15	136.83	135.97	135.41	134.74	134.84	135.39	137.20	137.30	135.73	134.99	135.75	136.33	
16	136.85	136.23	135.01	134.77	134.93	135.30	137.18	137.24	135.72	134.98	135.76	136.30	
17	136.80	136.37	134.93	134.81	134.95	135.35	137.13	137.18	135.70	134.96	136.30	136.27	
18	136.81	136.69	135.00	134.79	135.01	135.68	137.11	137.15	135.66	134.95	136.38	136.22	
19	136.80	136.73	134.86	134.76	134.99	135.80	137.10	137.12	135.63	134.92	136.39	136.21	
20	136.78	136.55	134.83	134.80	135.00	135.39	137.19	137.07	135.59	135.00	136.39	136.21	
21	136.76	135.75	134.84	134.85	135.09	135.14	137.32	136.99	135.52	134.85	136.40	136.20	
22	136.73	135.87	134.80	134.88	135.09	135.03	137.34	136.91	135.48	134.85	136.39	136.20	
23	136.66	136.64	134.84	134.88	135.11	135.55	137.40	136.84	135.46	134.87	136.40	136.21	
24	136.26	136.67	134.83	134.87	135.12	135.81	137.43	136.78	135.43	134.80	136.41	136.21	
25	136.64	136.64	134.81	134.83	135.07	135.63	137.43	136.71	135.40	134.77	135.86	136.20	
26	136.77	136.63	134.83	134.75	135.04	136.28	138.18	136.66	135.37	134.80	135.76	136.18	
27	136.15	136.61	134.84	134.80	135.01	137.77	138.67	136.62	135.40	134.77	135.75	136.19	
28	136.01	135.82	134.86	134.73	134.98	137.75	138.51	136.53	135.37	134.72	135.73	136.19	
29	136.14	135.76	134.88	134.71	135.03	138.39	138.51	136.46	135.38	134.73		136.19	
30	136.17	135.73	134.84	134.70	134.97	137.74	138.46	136.41	135.33	134.73		136.20	
31		135.74		134.71	134.93		138.40		135.31	134.75		136.20	
MEAN	136.58	136.35	135.51	134.80	134.93	136.00	137.48	137.34	135.75	134.99	135.52	136.01	
MAX	136.87	137.16	136.58	134.89	135.12	138.39	138.67	138.33	136.37	135.31	136.41	136.33	138.67
MIN	136.01	135.12	134.80	134.70	134.69	135.03	137.10	136.41	135.31	134.72	134.73	135.69	134.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 138.73 M (MSL), AT 6.00 HOURS, ON OCT 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 134.63 M (MSL), RIVER BED 134.02 M (MSL)
LEFT BANK ELEVATION 140.57 M (MSL)
RIGHT BANK ELEVATION 140.88 M (MSL), DRAINAGE AREA 6565 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	52.00	34.10	31.10	4.58	2.73	8.99	80.43	120.50	40.38	11.70	2.73	21.48	
2	47.68	35.60	39.70	4.34	2.84	11.70	75.60	118.50	38.34	10.90	2.73	21.48	
3	40.72	39.02	46.24	4.22	2.31	10.50	74.40	114.50	37.40	10.50	2.84	20.96	
4	41.74	57.04	46.96	4.34	3.39	9.16	74.00	110.40	35.90	9.50	2.95	21.22	
5	40.38	55.24	26.60	4.46	4.84	10.70	74.40	107.25	33.80	10.10	2.73	20.96	
6	39.70	55.60	42.08	4.34	3.62	8.65	73.20	104.10	32.60	9.70	2.73	20.96	
7	39.36	54.52	44.46	3.50	3.62	11.90	71.60	100.95	31.70	9.33	2.95	20.96	
8	39.02	69.60	47.68	3.39	4.34	46.60	71.60	97.35	29.60	8.99	3.17	21.48	
9	44.12	68.00	21.74	3.28	5.40	65.60	70.40	94.28	28.40	8.14	3.62	21.22	
10	57.04	60.40	31.40	3.39	6.27	58.12	70.80	90.86	26.60	7.46	3.86	20.96	
11	58.12	55.60	41.40	3.39	5.12	48.40	71.20	88.34	25.19	7.12	3.74	20.96	
12	56.68	35.00	31.70	3.39	4.22	34.10	72.00	83.72	23.84	6.78	9.16	20.70	
13	56.68	8.48	26.60	3.06	3.62	37.70	70.40	81.25	22.52	6.10	20.70	20.46	
14	56.68	8.14	18.30	2.84	4.22	25.46	70.40	77.60	22.00	6.27	21.48	34.40	
15	56.68	28.10	13.74	2.84	3.98	13.30	71.20	75.20	21.48	5.96	22.00	39.02	
16	57.40	35.90	6.27	3.17	5.12	11.50	70.40	72.80	21.22	5.82	22.26	38.00	
17	55.60	40.38	5.12	3.62	5.40	12.50	68.40	70.40	20.70	5.54	38.00	37.10	
18	55.96	51.64	6.10	3.39	6.27	20.22	67.60	69.20	19.74	5.40	40.72	35.60	
19	55.60	53.08	4.22	3.06	5.96	23.30	67.20	68.00	19.02	4.98	41.06	35.30	
20	54.88	46.60	3.86	3.50	6.10	13.30	70.80	66.00	18.06	6.10	41.06	35.30	
21	54.16	22.00	3.98	4.10	7.63	8.48	76.00	62.80	16.38	4.10	41.40	35.00	
22	53.08	25.19	3.50	4.46	7.63	6.61	76.80	59.60	15.42	4.10	41.06	35.00	
23	50.56	49.84	3.98	4.46	7.97	17.10	79.20	57.04	14.94	4.34	41.40	35.30	
24	36.80	50.92	3.86	4.34	8.14	23.57	80.43	54.88	14.22	3.50	41.74	35.30	
25	49.84	49.84	3.62	3.86	7.29	19.02	80.43	52.36	13.50	3.17	24.92	35.00	
26	54.52	49.48	3.86	2.95	6.78	37.40	113.10	50.56	12.90	3.50	22.26	34.40	
27	33.50	48.76	3.98	3.50	6.27	94.71	138.04	49.12	13.50	3.17	22.00	34.70	
28	29.30	23.84	4.22	2.73	5.82	93.85	129.72	45.88	12.90	2.62	21.48	34.70	
29	33.20	22.26	4.46	2.51	6.61	123.50	129.72	43.44	13.10	2.73		34.70	
30	34.10	21.48	3.98	2.40	5.68	93.42	127.12	41.74	12.10	2.73		35.00	
31		21.74		2.51	5.12		124.00		11.70	2.95		35.00	
TOTAL	1435.10	1277.39	574.71	109.92	164.31	999.36	2590.59	2328.62	699.15	193.30	546.75	912.62	11831.82 CMSDAY
MEAN	47.84	41.21	19.16	3.55	5.30	33.31	83.57	77.62	22.55	6.24	19.53	29.44	32.42 CMS
MAX	58.12	69.60	47.68	4.58	8.14	123.50	138.04	120.50	40.38	11.70	41.74	39.02	138.04 CMS
MIN	29.30	8.14	3.50	2.40	2.31	6.61	67.20	41.74	11.70	2.62	2.73	20.46	2.31 CMS
RUNOFF	123.993	110.366	49.655	9.497	14.196	86.345	223.827	201.193	60.407	16.701	47.239	78.850	1022.269 MCM

MOMENTARY PEAK 141.16 CMS, AT 138.73 M (MSL), AT 6.00 HOURS, ON OCT 27, 1982
RUNOFF YIELD 4.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

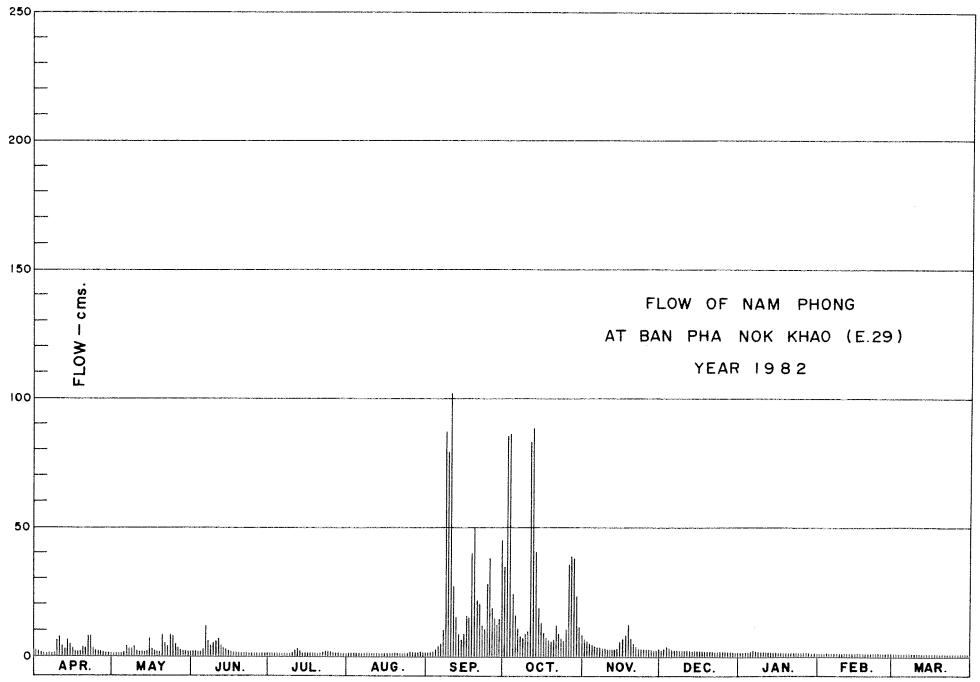
LAM NAM PHONG AT BAN PHA NOK KHAO, LOEI (E.29)

LOCATION	LAT. 16°-50'-45" N., LONG. 101°-56'-54" E., ON RIGHT BANK IN THE VICINITY OF THE FORESTRY OFFICE ABOUT 400 METERS FROM THE BRIDGE ON HIGHWAY, BAN PHA NOK KHAO, AMPHOE PHU KRADUNG, LOEI.
DRAINAGE AREA	945 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+225.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE AUTOMATIC GAGE BUILDING.
ELEVATION	+238.429 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1956-1958, 1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 125 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	225.85	225.65	225.72	225.56	225.56	225.62	228.36	226.40	225.88	225.67	225.61	225.54	
2	225.78	225.63	225.82	225.56	225.56	225.63	230.85	226.28	225.94	225.67	225.61	225.54	
3	225.68	225.60	225.72	225.56	225.56	225.66	230.90	226.21	226.00	225.66	225.61	225.53	
4	225.64	225.59	225.69	225.57	225.56	225.79	227.92	226.15	225.93	225.66	225.60	225.53	
5	225.62	225.62	225.93	225.56	225.55	226.07	227.23	226.09	225.88	225.67	225.60	225.53	
6	225.61	226.06	226.92	225.55	225.55	226.24	226.77	226.06	225.85	225.79	225.59	225.54	
7	225.60	225.95	226.32	225.56	225.55	226.73	226.53	226.03	225.82	225.83	225.59	225.54	
8	225.60	225.88	226.12	225.55	225.55	230.94	226.41	226.00	225.80	225.79	225.60	225.54	
9	226.32	226.07	226.17	225.55	225.54	230.65	226.61	225.98	225.79	225.77	225.58	225.53	
10	226.48	225.80	226.25	225.63	225.54	231.51	226.68	225.96	225.78	225.75	225.58	225.53	
11	226.07	225.72	226.44	225.83	225.55	228.00	230.73	225.94	225.76	225.73	225.57	225.53	
12	225.96	225.74	226.03	225.97	225.55	226.99	230.99	225.94	225.76	225.69	225.57	225.52	
13	226.37	225.68	225.95	225.76	225.54	226.52	228.66	225.91	225.75	225.68	225.57	225.52	
14	226.18	225.66	225.87	225.65	225.53	226.28	227.54	225.96	225.74	225.67	225.56	225.51	
15	225.97	226.41	225.80	225.61	225.52	226.59	226.95	226.25	225.73	225.66	225.56	225.50	
16	225.84	225.99	225.76	225.62	225.55	227.17	226.65	226.37	225.73	225.66	225.56	225.51	
17	225.84	225.83	225.73	225.62	225.54	227.10	226.46	226.57	225.72	225.66	225.57	225.51	
18	225.83	225.78	225.70	225.60	225.54	228.66	226.35	226.93	225.71	225.65	225.57	225.51	
19	226.02	225.79	225.66	225.59	225.54	229.29	226.27	226.35	225.71	225.64	225.57	225.51	
20	225.98	226.58	225.66	225.58	225.53	227.60	226.27	226.14	225.71	225.64	225.56	225.50	
21	226.51	226.19	225.65	225.58	225.54	227.49	226.92	226.05	225.70	225.64	225.56	225.50	
22	226.55	226.10	225.63	225.65	225.56	226.89	226.57	225.98	225.69	225.64	225.55	225.51	
23	225.97	226.58	225.63	225.72	225.56	226.77	226.40	225.96	225.69	225.63	225.55	225.50	
24	225.84	226.52	225.63	225.73	225.56	227.86	226.31	225.93	225.69	225.63	225.55	225.50	
25	225.77	226.18	225.60	225.68	225.62	228.63	226.88	225.92	225.68	225.63	225.54	225.50	
26	225.72	225.99	225.60	225.63	225.66	227.32	228.45	225.90	225.67	225.63	225.54	225.50	
27	225.69	225.89	225.59	225.61	225.64	227.06	228.66	225.88	225.67	225.63	225.54	225.50	
28	225.64	225.82	225.59	225.60	225.64	226.90	228.62	225.86	225.68	225.63	225.54	225.50	
29	225.62	225.80	225.58	225.59	225.69	227.14	227.39	225.85	225.67	225.63		225.50	
30	225.65	225.83	225.57	225.58	225.67	229.00	226.85	225.88	225.68	225.63		225.50	
31		225.76		225.56	225.65		226.56		225.67	225.61		225.50	
MEAN	225.91	225.93	225.84	225.63	225.57	227.47	227.57	226.09	225.76	225.67	225.57	225.52	
MAX	226.55	226.58	226.92	225.97	225.69	231.51	230.99	226.93	226.00	225.83	225.61	225.54	231.51
MIN	225.60	225.59	225.57	225.55	225.52	225.62	226.27	225.85	225.67	225.61	225.54	225.50	225.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 233.15 M (MSL), AT 24.00 HOURS, ON OCT 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 225.00 M (MSL), RIVER BED 225.45 M (MSL)
LEFT BANK ELEVATION 237.88 M (MSL)
RIGHT BANK ELEVATION 238.24 M (MSL), DRAINAGE AREA 945 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.97	0.96	1.31	0.50	0.50	0.81	33.22	6.40	2.12	1.06	0.76	0.40	
2	1.61	0.86	1.82	0.50	0.50	0.86	84.75	5.32	2.54	1.06	0.76	0.40	
3	1.11	0.71	1.31	0.50	0.50	1.01	86.00	4.69	3.01	1.01	0.76	0.35	
4	0.91	0.65	1.16	0.55	0.50	1.66	26.30	4.20	2.46	1.01	0.71	0.35	
5	0.81	0.81	2.46	0.50	0.45	3.57	16.32	3.73	2.12	1.06	0.71	0.35	
6	0.76	3.49	11.98	0.45	0.45	4.96	10.07	3.49	1.97	1.66	0.65	0.40	
7	0.71	2.62	5.68	0.50	0.45	9.63	7.60	3.25	1.82	1.87	0.65	0.40	
8	0.71	2.12	3.97	0.45	0.45	87.00	6.49	3.01	1.72	1.66	0.71	0.40	
9	5.68	3.57	4.36	0.45	0.40	79.75	8.40	2.85	1.66	1.56	0.60	0.35	
10	7.12	1.72	5.05	0.86	0.40	101.77	9.10	2.70	1.61	1.46	0.60	0.35	
11	3.57	1.31	6.76	1.87	0.45	27.50	81.75	2.54	1.51	1.36	0.55	0.35	
12	2.70	1.41	3.25	2.78	0.45	12.96	88.25	2.54	1.51	1.16	0.55	0.30	
13	6.13	1.11	2.62	1.51	0.40	7.50	38.32	2.30	1.46	1.11	0.55	0.30	
14	4.44	1.01	2.07	0.96	0.35	5.32	20.66	2.70	1.41	1.06	0.50	0.25	
15	2.78	6.49	1.72	0.76	0.30	8.20	12.40	5.05	1.36	1.01	0.50	0.20	
16	1.92	2.93	1.51	0.81	0.45	15.48	8.80	6.13	1.36	1.01	0.50	0.25	
17	1.92	1.87	1.36	0.81	0.40	14.50	6.94	8.00	1.31	1.01	0.55	0.25	
18	1.87	1.61	1.21	0.71	0.40	38.32	5.95	12.12	1.26	0.96	0.55	0.25	
19	3.17	1.66	1.01	0.65	0.40	49.81	5.23	5.95	1.26	0.91	0.55	0.25	
20	2.85	8.10	1.01	0.60	0.35	21.50	5.23	4.12	1.26	0.91	0.50	0.20	
21	7.40	4.52	0.96	0.60	0.40	19.96	11.98	3.41	1.21	0.91	0.50	0.20	
22	7.80	3.81	0.86	0.96	0.50	11.57	8.00	2.85	1.16	0.91	0.45	0.25	
23	2.78	8.10	0.86	1.31	0.50	10.07	6.40	2.70	1.16	0.86	0.45	0.20	
24	1.92	7.50	0.86	1.36	0.50	25.40	5.59	2.46	1.16	0.86	0.45	0.20	
25	1.56	4.44	0.71	1.11	0.81	37.81	11.44	2.38	1.11	0.86	0.40	0.20	
26	1.31	2.93	0.71	0.86	1.01	17.58	34.75	2.22	1.06	0.86	0.40	0.20	
27	1.16	2.17	0.65	0.76	0.91	13.94	38.32	2.12	1.06	0.86	0.40	0.20	
28	0.91	1.82	0.65	0.71	0.91	11.70	37.64	2.02	1.11	0.86	0.40	0.20	
29	0.81	1.72	0.60	0.65	1.16	15.06	18.56	1.97	1.06	0.86		0.20	
30	0.96	1.87	0.55	0.60	1.06	44.30	11.05	2.12	1.11	0.86		0.20	
31		1.51		0.50	0.96		7.90		1.06	0.76		0.20	
TOTAL	79.35	85.40	69.03	26.14	17.27	699.50	753.41	115.34	46.99	33.37	15.66	8.60	1950.06 CMSDAY
MEAN	2.64	2.75	2.30	0.84	0.56	23.32	24.30	3.84	1.52	1.08	0.56	0.28	5.34 CMS
MAX	7.80	8.10	11.98	2.78	1.16	101.77	88.25	12.12	3.01	1.87	0.76	0.40	101.77 CMS
MIN	0.71	0.65	0.55	0.45	0.30	0.81	5.23	1.97	1.06	0.76	0.40	0.20	0.20 CMS
RUNOFF	6.856	7.379	5.964	2.258	1.492	60.437	65.095	9.965	4.060	2.883	1.353	0.743	168.485 MCM

MOMENTARY PEAK 148.00 CMS, AT 233.15 M (MSL), AT 24.00 HOURS, ON OCT 2, 1982

RUNOFF YIELD 5.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 156.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

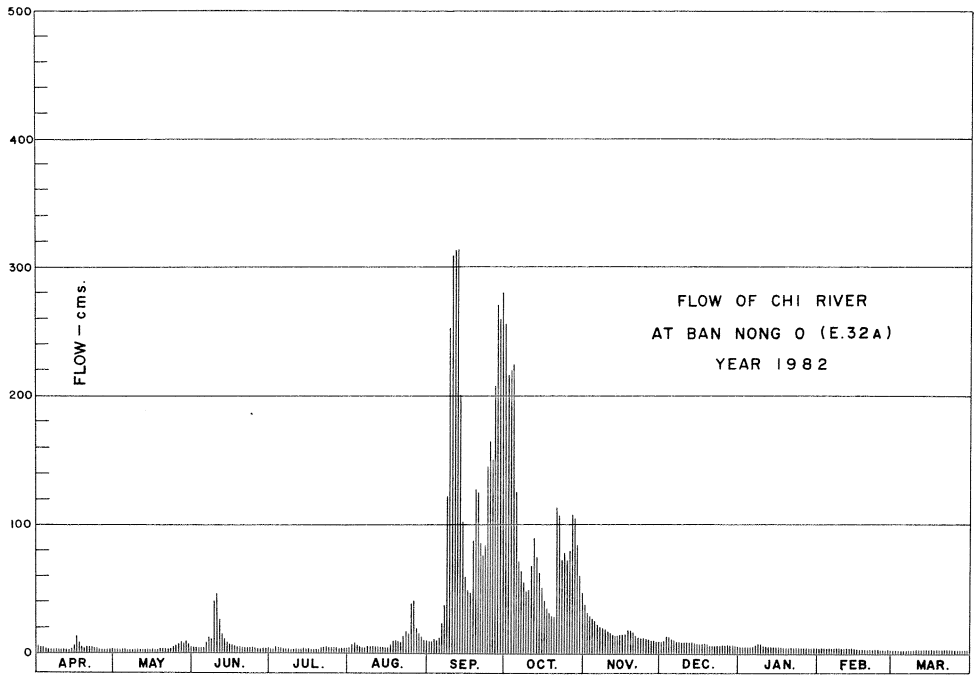
CHI RIVER AT BAN NONG O, CHAIYAPHUM (E.32A)

LOCATION	LAT. 15°-54'-40" N., LONG. 101°-42'-40" E., ON LEFT BANK ABOUT 500 METERS NORTH OF BAN NONG O, ABOUT 600 METERS UPSTREAM FROM E.32 GAGING STATION, AMPHOE BAN KHWAO, CHAIYAPHUM.
DRAINAGE AREA	2,906 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+198.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE AUTOMATIC GAGE BUILDING.
ELEVATION	+210.771 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 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 171 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.03	198.70	198.94	198.80	198.84	199.23	207.71	200.75	199.26	198.95	198.83	198.78	
2	198.97	198.70	198.93	198.78	199.11	199.25	207.17	200.49	199.26	198.95	198.83	198.78	
3	198.91	198.70	198.88	198.80	199.17	199.35	207.22	200.32	199.49	198.94	198.83	198.78	
4	198.81	198.68	198.85	198.86	199.05	199.25	207.31	200.15	199.51	198.93	198.83	198.77	
5	198.76	198.64	198.84	198.81	198.94	199.46	205.09	200.07	199.37	198.93	198.84	198.77	
6	198.73	198.65	199.16	198.79	198.88	200.06	202.86	200.02	199.29	198.98	198.84	198.77	
7	198.72	198.64	199.51	198.78	198.86	200.69	201.84	199.94	199.24	199.00	198.84	198.76	
8	198.71	198.64	199.41	198.77	198.91	203.15	201.43	199.87	199.21	199.07	198.84	198.75	
9	198.72	198.62	200.80	198.75	198.98	205.96	201.08	199.81	199.18	199.06	198.83	198.75	
10	198.74	198.65	201.15	198.73	198.95	207.81	201.18	199.73	199.16	199.01	198.83	198.75	
11	198.71	198.64	200.12	198.74	198.91	208.44	201.86	199.70	199.15	198.98	198.81	198.75	
12	198.72	198.64	199.55	198.74	198.90	208.46	202.59	199.63	199.15	198.96	198.81	198.74	
13	198.75	198.64	199.34	198.73	198.88	207.39	202.16	199.59	199.14	198.94	198.81	198.74	
14	198.79	198.61	199.20	198.74	198.87	204.35	201.72	199.56	199.13	198.94	198.80	198.74	
15	199.02	198.63	199.11	198.81	198.87	201.90	201.34	199.56	199.10	198.94	198.79	198.72	
16	199.59	198.62	199.10	198.77	198.85	201.23	200.97	199.61	199.10	198.92	198.79	198.71	
17	199.22	198.61	199.03	198.74	199.07	201.08	200.67	199.63	199.10	198.90	198.79	198.71	
18	198.95	198.64	198.97	198.73	199.21	202.13	200.46	199.79	199.09	198.89	198.79	198.71	
19	198.88	198.66	198.93	198.71	199.33	203.65	200.33	199.77	199.07	198.89	198.79	198.71	
20	198.91	198.81	198.91	198.79	199.25	203.60	200.32	199.65	199.06	198.88	198.79	198.70	
21	198.95	198.70	198.89	198.82	199.20	202.53	203.29	199.54	199.06	198.87	198.79	198.70	
22	198.92	198.83	198.86	198.87	199.54	202.14	203.04	199.46	199.05	198.87	198.79	198.70	
23	198.86	198.78	198.83	198.91	199.71	202.49	202.01	199.43	199.05	198.86	198.78	198.70	
24	198.83	198.96	198.81	198.92	199.62	204.03	202.26	199.39	199.04	198.86	198.78	198.70	
25	198.78	199.02	198.80	198.84	200.78	204.60	202.04	199.36	199.04	198.85	198.76	198.70	
26	198.75	199.09	198.78	198.82	200.85	204.24	202.25	199.34	199.04	198.85	198.76	198.69	
27	198.74	199.23	198.79	198.80	199.83	205.68	203.15	199.31	199.03	198.85	198.76	198.66	
28	198.72	199.17	198.84	198.78	199.64	207.06	203.03	199.28	199.03	198.84	198.75	198.66	
29	198.71	199.21	198.87	198.82	199.50	206.82	202.35	199.26	199.01	198.84		198.67	
30	198.71	199.12	198.86	198.82	199.36	207.27	201.71	199.26	198.98	198.84		198.67	
31		198.98		198.80	199.28		201.12		198.95	198.84		198.67	
MEAN	198.85	198.78	199.17	198.79	199.26	203.44	202.63	199.71	199.14	198.92	198.80	198.72	
MAX	199.59	199.23	201.15	198.92	200.85	208.46	207.71	200.75	199.51	199.07	198.84	198.78	208.46
MIN	198.71	198.61	198.78	198.71	198.84	199.23	200.32	199.26	198.95	198.84	198.75	198.66	198.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 208.49 M (MSL), AT 6.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 198.00 M (MSL), RIVER BED 197.60 M (MSL)
LEFT BANK ELEVATION 221.45 M (MSL)
RIGHT BANK ELEVATION 211.70 M (MSL), DRAINAGE AREA 2906 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.45	2.00	4.40	3.00	3.40	8.45	250.25	37.75	8.90	4.50	3.30	2.80	
2	4.70	2.00	4.30	2.80	6.65	8.75	215.59	31.80	8.90	4.50	3.30	2.80	
3	4.10	2.00	3.80	3.00	7.55	10.25	218.44	28.40	12.35	4.40	3.30	2.80	
4	3.10	1.80	3.50	3.60	5.75	8.75	223.60	25.00	12.65	4.30	3.30	2.70	
5	2.60	1.40	3.40	3.10	4.40	11.90	129.47	23.40	10.55	4.30	3.40	2.70	
6	2.30	1.50	7.40	2.90	3.80	23.20	74.98	22.40	9.35	4.80	3.40	2.70	
7	2.20	1.40	12.65	2.80	3.60	36.25	61.20	20.80	8.60	5.00	3.40	2.60	
8	2.10	1.40	11.15	2.70	4.10	107.25	54.75	19.40	8.15	6.05	3.40	2.50	
9	2.20	1.20	39.00	2.50	4.80	220.82	46.00	18.20	7.70	5.90	3.30	2.50	
10	2.40	1.50	47.75	2.30	4.50	306.00	48.50	16.60	7.40	5.15	3.30	2.50	
11	2.10	1.40	24.40	2.40	4.10	312.30	66.43	16.00	7.25	4.80	3.10	2.50	
12	2.20	1.40	13.25	2.40	4.00	314.20	88.94	14.60	7.25	4.60	3.10	2.40	
13	2.50	1.40	10.10	2.30	3.80	228.40	75.68	13.85	7.10	4.40	3.10	2.40	
14	2.90	1.10	8.00	2.40	3.70	108.00	62.12	13.40	6.95	4.40	3.00	2.40	
15	5.30	1.30	6.65	3.10	3.70	61.80	52.50	13.40	6.50	4.40	2.90	2.20	
16	13.85	1.20	6.50	2.70	3.50	49.75	43.25	14.20	6.50	4.20	2.90	2.10	
17	8.30	1.10	5.45	2.40	6.05	46.00	35.75	14.60	6.50	4.00	2.90	2.10	
18	4.50	1.40	4.70	2.30	8.15	74.76	31.20	17.80	6.35	3.90	2.90	2.10	
19	3.80	1.60	4.30	2.10	9.95	126.00	28.60	17.40	6.05	3.90	2.90	2.10	
20	4.10	3.10	4.10	2.90	8.75	124.00	28.40	15.00	5.90	3.80	2.90	2.00	
21	4.50	2.00	3.90	3.20	8.00	87.09	112.15	13.10	5.90	3.70	2.90	2.00	
22	4.20	3.30	3.60	3.70	13.10	75.07	103.40	11.90	5.75	3.70	2.90	2.00	
23	3.60	2.80	3.30	4.10	16.20	85.86	71.06	11.45	5.75	3.60	2.80	2.00	
24	3.30	4.60	3.10	4.20	14.40	141.20	78.77	10.85	5.60	3.60	2.80	2.00	
25	2.80	5.30	3.00	3.40	38.50	164.00	71.98	10.40	5.60	3.50	2.60	2.00	
26	2.50	6.35	2.80	3.20	40.25	149.60	78.46	10.10	5.60	3.50	2.60	1.90	
27	2.40	8.45	2.90	3.00	18.60	208.14	107.25	9.65	5.45	3.50	2.60	1.60	
28	2.20	7.55	3.40	2.80	14.80	270.59	103.05	9.20	5.45	3.40	2.50	1.60	
29	2.10	8.15	3.70	3.20	12.50	259.73	81.54	8.90	5.15	3.40		1.70	
30	2.10	6.80	3.60	3.20	10.40	280.09	61.81	8.90	4.80	3.40		1.70	
31		4.80		3.00	9.20		47.00		4.50	3.40		1.70	
TOTAL	110.40	91.30	258.10	90.70	300.20	3908.20	2752.12	498.45	220.45	130.00	84.80	69.10	8513.82 CMSDAY
MEAN	3.68	2.95	8.60	2.93	9.68	130.27	88.78	16.61	7.11	4.19	3.03	2.23	23.33 CMS
MAX	13.85	8.45	47.75	4.20	40.25	314.20	250.25	37.75	12.65	6.05	3.40	2.80	314.20 CMS
MIN	2.10	1.10	2.80	2.10	3.40	8.45	28.40	8.90	4.50	3.40	2.50	1.60	1.10 CMS
RUNOFF	9.539	7.888	22.300	7.836	25.937	337.669	237.783	43.066	19.047	11.232	7.327	5.970	735.594 MCM

MOMENTARY PEAK 317.05 CMS, AT 208.49 M (MSL), AT 6.00 HOURS, ON SEP 12, 1982
RUNOFF YIELD 8.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

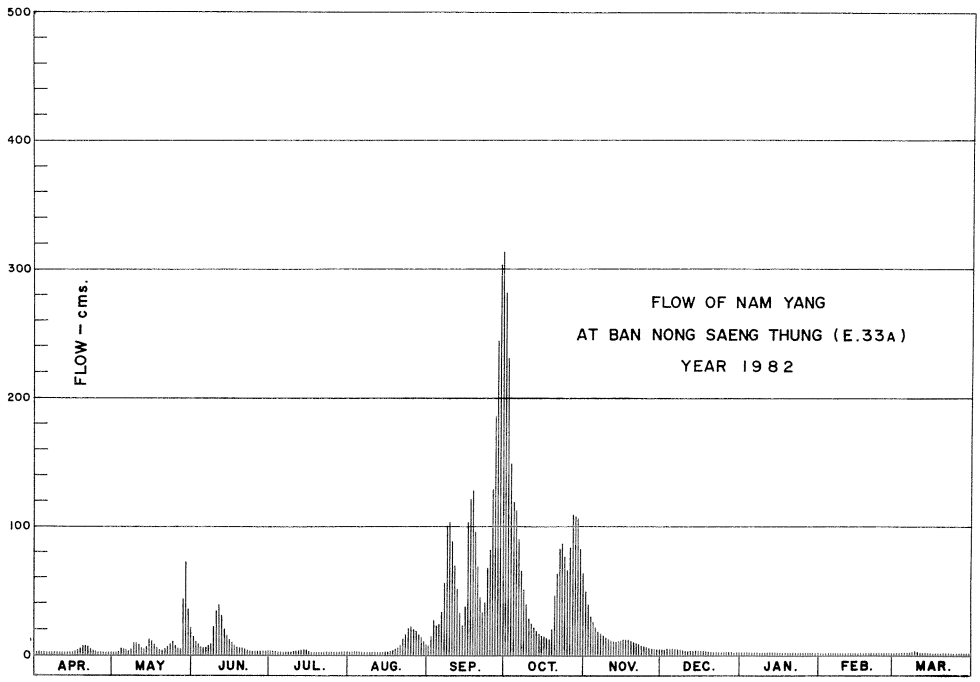
NAM YANG AT BAN NONG SAENG THUNG, ROI ET (E.33A)

LOCATION	LAT. 16°-20'-01" N., LONG. 104°-01'-18" E., ON LEFT BANK ABOUT 1 KILOMETER SOUTH-EAST OF BAN NONG SAENG THUNG, AND 150 METERS DOWNSTREAM FROM CONFLUENCE WITH NONG SAENG, AMPHOE PHON THONG, ROI ET.
DRAINAGE AREA	2,599 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+133.967 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF E.33A STATION OFFICE.
ELEVATION	+143.700 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1961 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1961-1968
RATED BY FLOAT	-
RATED BY CURRENT METER	1961-1968
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1,629 DISCHARGE MEASUREMENTS MADE DURING 1961-1968.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.90	134.60	135.74	134.88	134.67	135.31	142.21	137.15	135.04	134.76	134.70	134.60	
2	134.82	134.57	135.49	134.87	134.67	135.75	141.42	136.79	135.06	134.76	134.69	134.60	
3	134.75	134.68	135.35	134.85	134.65	136.30	139.99	136.48	135.03	134.77	134.69	134.61	
4	134.77	135.16	135.25	134.81	134.83	136.05	139.12	136.26	135.03	134.78	134.69	134.59	
5	134.78	135.05	135.15	134.79	134.80	136.18	138.95	136.05	135.06	134.78	134.68	134.58	
6	134.78	135.04	135.13	134.82	134.76	136.61	138.32	135.94	135.03	134.79	134.68	134.57	
7	134.75	134.94	135.27	134.80	134.73	137.16	137.67	135.82	134.99	134.75	134.67	134.81	
8	134.71	134.97	135.43	134.79	134.73	138.57	137.17	135.76	134.96	134.75	134.66	134.85	
9	134.68	135.39	136.00	134.79	134.74	138.65	136.69	135.70	134.96	134.75	134.65	134.84	
10	134.65	135.43	136.59	134.83	134.73	138.30	136.38	135.65	134.92	134.75	134.66	134.83	
11	134.63	135.34	136.76	134.90	134.76	137.70	136.20	135.55	134.93	134.72	134.65	134.81	
12	134.61	135.19	136.37	134.87	134.73	137.10	136.06	135.53	134.91	134.72	134.63	134.77	
13	134.60	135.04	136.03	134.85	134.71	136.54	135.94	135.51	134.88	134.71	134.65	134.76	
14	134.74	135.25	135.76	134.86	134.72	136.13	135.83	135.49	134.87	134.72	134.66	134.73	
15	134.83	135.59	135.58	135.00	134.72	136.65	135.74	135.53	134.88	134.73	134.65	134.67	
16	134.94	135.52	135.41	134.88	134.75	138.36	135.64	135.58	134.86	134.73	134.64	134.60	
17	135.00	135.30	135.29	134.78	134.80	139.08	135.64	135.61	134.87	134.70	134.65	134.59	
18	135.12	135.13	135.20	134.76	134.93	139.36	135.60	135.58	134.85	134.69	134.61	134.65	
19	135.32	135.00	135.13	134.82	135.06	138.56	136.02	135.51	134.83	134.69	134.64	134.63	
20	135.27	134.97	135.12	134.79	135.16	137.70	137.08	135.44	134.82	134.69	134.64	134.70	
21	135.18	135.17	135.07	134.78	135.26	137.05	137.53	135.40	134.82	134.70	134.63	134.78	
22	135.03	135.24	135.01	134.91	135.66	136.52	138.11	135.35	134.81	134.70	134.62	134.71	
23	134.93	135.39	134.99	134.81	135.75	136.88	138.19	135.29	134.82	134.69	134.58	134.74	
24	134.91	135.50	134.93	134.77	135.98	137.69	137.93	135.26	134.80	134.70	134.62	134.80	
25	134.69	135.30	134.93	134.75	136.08	138.21	137.65	135.23	134.80	134.69	134.62	134.72	
26	134.79	135.15	134.91	134.73	135.99	139.17	138.20	135.17	134.80	134.67	134.60	134.72	
27	134.74	135.06	134.90	134.71	135.94	140.92	138.85	135.14	134.80	134.66	134.64	134.72	
28	134.70	136.70	134.89	134.70	135.82	141.87	138.79	135.11	134.77	134.71	134.60	134.67	
29	134.67	137.81	134.89	134.69	135.64	142.53	138.72	135.09	134.75	134.69		134.61	
30	134.63	136.77	134.89	134.68	135.45	142.66	138.17	135.06	134.76	134.71		134.59	
31		136.13		134.68	135.29		137.57		134.76	134.70		134.57	
MEAN	134.83	135.37	135.38	134.80	135.11	137.99	137.66	135.63	134.89	134.72	134.65	134.69	
MAX	135.32	137.81	136.76	135.00	136.08	142.66	142.21	137.15	135.06	134.79	134.70	134.85	142.66
MIN	134.60	134.57	134.89	134.68	134.65	135.31	135.60	135.06	134.75	134.66	134.58	134.57	134.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 142.66 M (MSL), AT 3.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 133.97 M (MSL), RIVER BED 134.36 M (MSL)
LEFT BANK ELEVATION 143.27 M (MSL)
RIGHT BANK ELEVATION 142.76 M (MSL), DRAINAGE AREA 2599 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.40	0.60	14.88	2.28	1.02	7.76	277.16	51.70	4.08	1.56	1.20	0.60	
2	1.92	0.48	10.64	2.22	1.02	15.10	224.96	40.77	4.32	1.56	1.14	0.60	
3	1.50	1.08	8.40	2.10	0.90	27.40	153.60	31.88	3.96	1.62	1.14	0.66	
4	1.62	5.52	6.80	1.86	1.98	21.70	119.52	26.44	3.96	1.68	1.14	0.56	
5	1.68	4.20	5.40	1.74	1.80	24.56	113.40	21.70	4.32	1.68	1.08	0.52	
6	1.68	4.08	5.16	1.92	1.56	35.30	90.72	19.28	3.96	1.74	1.08	0.48	
7	1.50	2.88	7.12	1.80	1.38	52.00	67.49	16.64	3.48	1.50	1.02	1.86	
8	1.26	3.24	9.68	1.74	1.38	99.72	52.31	15.32	3.12	1.50	0.96	2.10	
9	1.08	9.04	20.60	1.74	1.44	102.60	37.73	14.00	3.12	1.50	0.90	2.04	
10	0.90	9.68	34.74	1.98	1.38	90.00	29.32	13.20	2.64	1.50	0.96	1.98	
11	0.78	8.24	39.86	2.40	1.56	68.40	25.00	11.60	2.76	1.32	0.90	1.86	
12	0.66	5.88	29.08	2.22	1.38	50.18	21.92	11.28	2.52	1.32	0.78	1.62	
13	0.60	4.08	21.26	2.10	1.26	33.44	19.28	10.96	2.28	1.26	0.90	1.56	
14	1.44	6.80	15.32	2.16	1.32	23.46	16.86	10.64	2.22	1.32	0.96	1.38	
15	1.98	12.24	12.08	3.60	1.32	36.52	14.88	11.28	2.28	1.38	0.90	1.02	
16	2.88	11.12	9.36	2.28	1.50	92.16	13.04	12.08	2.16	1.38	0.84	0.60	
17	3.60	7.60	7.44	1.68	1.80	118.08	13.04	12.56	2.22	1.20	0.90	0.56	
18	5.04	5.16	6.00	1.56	2.76	128.40	12.40	12.08	2.10	1.14	0.66	0.90	
19	7.92	3.60	5.16	1.92	4.32	99.36	21.04	10.96	1.98	1.14	0.84	0.78	
20	7.12	3.24	5.04	1.74	5.52	68.40	49.57	9.84	1.92	1.14	0.84	1.20	
21	5.76	5.64	4.44	1.68	6.96	48.66	63.24	9.20	1.92	1.20	0.78	1.68	
22	3.96	6.64	3.72	2.52	13.36	32.92	83.16	8.40	1.86	1.20	0.72	1.26	
23	2.76	9.04	3.48	1.86	15.10	43.50	86.04	7.44	1.92	1.14	0.52	1.44	
24	2.52	10.80	2.76	1.62	20.16	68.10	76.68	6.96	1.80	1.20	0.72	1.80	
25	1.14	7.60	2.76	1.50	22.36	86.76	66.88	6.48	1.80	1.14	0.72	1.32	
26	1.74	5.40	2.52	1.38	20.38	121.32	86.40	5.64	1.80	1.02	0.60	1.32	
27	1.44	4.32	2.40	1.26	19.28	196.28	109.80	5.28	1.80	0.96	0.84	1.32	
28	1.20	38.04	2.34	1.20	16.64	252.90	107.64	4.92	1.62	1.26	0.60	1.02	
29	1.02	72.36	2.34	1.14	13.04	302.40	105.12	4.68	1.50	1.14		0.66	
30	0.78	40.16	2.34	1.08	10.00	312.80	85.32	4.32	1.56	1.26		0.56	
31		23.46		1.08	7.44		64.45		1.56	1.20		0.48	
TOTAL	69.88	332.22	303.12	57.36	201.32	2660.18	2307.97	427.53	78.54	41.16	24.64	35.74	6539.66 CMSDAY
MEAN	2.33	10.72	10.10	1.85	6.49	88.67	74.45	14.25	2.53	1.33	0.88	1.15	17.92 CMS
MAX	7.92	72.36	39.86	3.60	22.36	312.80	277.16	51.70	4.32	1.74	1.20	2.10	312.80 CMS
MIN	0.60	0.48	2.34	1.08	0.90	7.76	12.40	4.32	1.50	0.96	0.52	0.48	0.48 CMS
RUNOFF	6.038	28.704	26.190	4.956	17.394	229.840	199.409	36.939	6.786	3.556	2.129	3.088	565.027 MCM

MOMENTARY PEAK 312.80 CMS, AT 142.66 M (MSL), AT 3.00 HOURS, ON SEP 30, 1982

RUNOFF YIELD 6.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 120.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

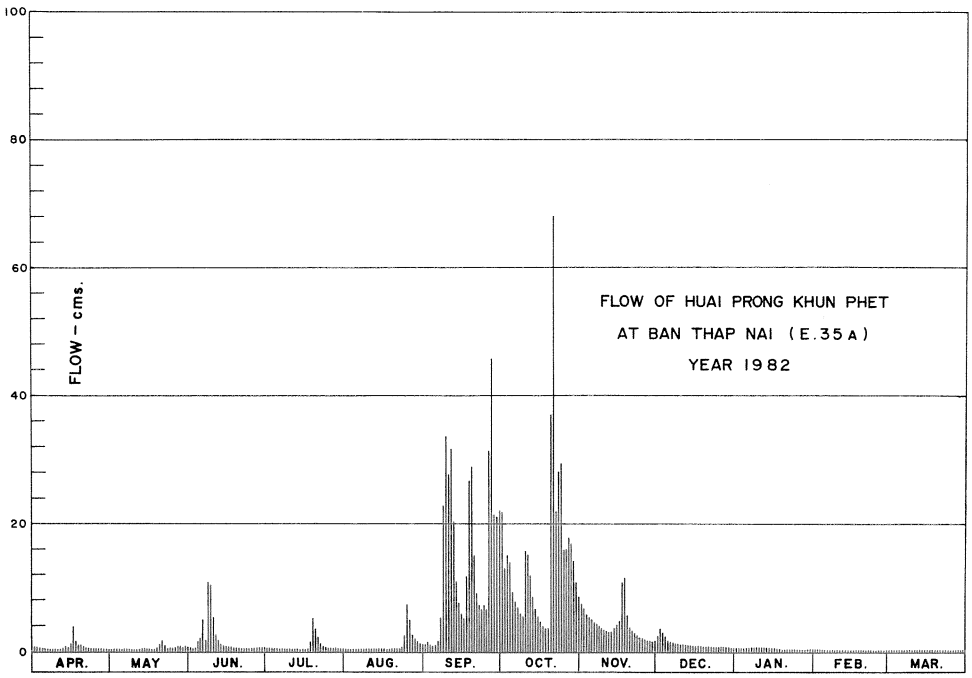
HUAI PRONG KHUN PHET AT BAN THAP NAI, CHAIYAPHUM (E.35A)

LOCATION	LAT. 15°-44'-27" N., LONG. 101°-38'-07" E., ON LEFT BANK ABOUT 6 KILOMETERS UPSTREAM FROM E.35 STATION AT BAN THAP NAI, KING AMPHOE NONG BUA RAHEO, CHAIYAPHUM.
DRAINAGE AREA	422 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+211.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+216.534 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 - 1981
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR.STAGE-DISCHARGE RELATION DEFINED BY 731 DISCHARGE MEASUREMENTS MADE DURING 1977-1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	212.33	212.10	212.24	212.21	212.14	212.49	214.69	213.55	212.79	212.33	212.22	212.17	
2	212.32	212.17	212.18	212.22	212.13	212.61	214.02	213.46	213.04	212.32	212.22	212.17	
3	212.25	212.12	212.14	212.22	212.13	212.44	214.22	213.36	212.94	212.32	212.21	212.16	
4	212.21	212.09	212.67	212.22	212.13	212.41	214.12	213.30	212.80	212.31	212.21	212.15	
5	212.19	212.08	212.77	212.20	212.12	212.44	213.74	213.27	212.69	212.31	212.21	212.15	
6	212.16	212.07	213.24	212.19	212.12	212.58	213.58	213.22	212.64	212.31	212.20	212.15	
7	212.14	212.07	212.68	212.19	212.13	213.25	213.48	213.17	212.60	212.32	212.20	212.14	
8	212.12	212.07	213.85	212.17	212.12	214.81	213.37	213.11	212.57	212.36	212.20	212.14	
9	212.11	212.06	213.80	212.17	212.11	215.43	213.29	213.06	212.54	212.35	212.21	212.15	
10	212.14	212.06	213.31	212.16	212.11	215.07	214.29	213.02	212.52	212.34	212.20	212.15	
11	212.14	212.05	212.82	212.16	212.14	215.33	214.22	212.97	212.51	212.32	212.19	212.15	
12	212.15	212.05	212.59	212.15	212.13	214.79	213.97	212.94	212.49	212.30	212.19	212.15	
13	212.43	212.03	212.49	212.13	212.13	213.92	213.61	212.90	212.47	212.28	212.20	212.15	
14	212.26	212.29	212.41	212.13	212.12	213.56	213.43	213.07	212.46	212.28	212.21	212.13	
15	212.21	212.22	212.34	212.13	212.17	213.37	213.29	213.12	212.45	212.28	212.21	212.14	
16	213.08	212.15	212.30	212.13	212.18	213.27	213.19	213.19	212.45	212.27	212.21	212.14	
17	212.58	212.10	212.27	212.12	212.16	213.78	213.10	213.84	212.44	212.27	212.19	212.13	
18	212.49	212.08	212.26	212.24	212.14	214.97	213.04	213.92	212.42	212.26	212.18	212.13	
19	212.47	212.08	212.23	213.26	212.18	215.15	213.03	213.31	212.41	212.25	212.18	212.13	
20	212.36	212.50	212.21	213.00	212.21	214.33	215.20	213.07	212.41	212.25	212.18	212.13	
21	212.33	212.65	212.21	212.68	212.23	213.75	217.04	212.94	212.40	212.25	212.18	212.13	
22	212.29	212.38	212.21	212.47	212.25	213.50	214.73	212.87	212.38	212.24	212.18	212.13	
23	212.23	212.23	212.21	212.35	212.23	213.42	215.10	212.84	212.37	212.23	212.18	212.13	
24	212.21	212.27	212.20	212.29	212.88	213.51	215.18	212.80	212.37	212.23	212.17	212.11	
25	212.21	212.29	212.19	212.25	213.53	213.43	214.28	212.74	212.37	212.23	212.17	212.12	
26	212.18	212.21	212.19	212.21	213.10	215.32	214.29	212.71	212.36	212.23	212.17	212.12	
27	212.19	212.38	212.28	212.20	212.81	216.05	214.42	212.69	212.36	212.23	212.17	212.12	
28	212.15	212.42	212.28	212.20	212.71	214.69	214.36	212.66	212.36	212.23	212.17	212.11	
29	212.21	212.29	212.23	212.17	212.61	214.64	214.13	212.63	212.34	212.23		212.11	
30	212.10	212.41	212.22	212.15	212.54	214.72	213.87	212.62	212.33	212.23		212.11	
31		212.30		212.14	212.53		213.69		212.33	212.22		212.11	
MEAN	212.27	212.20	212.50	212.27	212.33	213.97	214.06	213.08	212.50	212.28	212.19	212.14	
MAX	213.08	212.65	213.85	213.26	213.53	216.05	217.04	213.92	213.04	212.36	212.22	212.17	217.04
MIN	212.10	212.03	212.14	212.12	212.11	212.41	213.03	212.62	212.33	212.22	212.17	212.11	212.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 217.61 M (MSL), AT 9.00 HOURS, ON OCT 21, 1982
ZERO GAGE AT BOTTOM ELEVATION 211.00 M (MSL), RIVER BED 211.25 M (MSL)
LEFT BANK ELEVATION 219.49 M (MSL)
RIGHT BANK ELEVATION 220.35 M (MSL), DRAINAGE AREA 422 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.02	0.36	0.29	0.12	0.98	21.45	7.65	2.25	0.58	0.31	0.19	
2	0.56	0.19	0.22	0.31	0.09	1.44	12.64	6.84	3.54	0.56	0.31	0.19	
3	0.39	0.07	0.12	0.31	0.09	0.85	15.04	5.94	3.00	0.56	0.29	0.17	
4	0.29	0.02	1.68	0.31	0.09	0.78	13.84	5.40	2.30	0.53	0.29	0.14	
5	0.24	0.02	2.15	0.26	0.07	0.85	9.50	5.16	1.76	0.53	0.29	0.14	
6	0.17	0.02	4.92	0.24	0.07	1.32	7.92	4.76	1.56	0.53	0.26	0.14	
7	0.12	0.02	1.72	0.24	0.09	5.00	7.02	4.39	1.40	0.56	0.26	0.12	
8	0.07	0.02	10.65	0.19	0.07	23.36	6.03	3.97	1.28	0.66	0.26	0.12	
9	0.04	0.02	10.10	0.19	0.04	33.67	5.32	3.66	1.16	0.63	0.29	0.14	
10	0.12	0.02	5.49	0.17	0.04	27.52	15.88	3.42	1.08	0.61	0.26	0.14	
11	0.12	0.02	2.40	0.17	0.12	31.77	15.04	3.15	1.04	0.56	0.24	0.14	
12	0.14	0.02	1.36	0.14	0.09	23.04	12.04	3.00	0.98	0.51	0.24	0.14	
13	0.83	0.01	0.98	0.09	0.09	11.44	8.20	2.80	0.93	0.46	0.26	0.14	
14	0.41	0.49	0.78	0.09	0.07	7.74	6.57	3.72	0.90	0.46	0.29	0.09	
15	0.29	0.31	0.61	0.09	0.19	6.03	5.32	4.04	0.88	0.46	0.29	0.12	
16	3.78	0.14	0.51	0.09	0.22	5.16	4.53	4.53	0.88	0.44	0.29	0.12	
17	1.32	0.02	0.44	0.07	0.17	9.90	3.90	10.54	0.85	0.44	0.24	0.09	
18	0.98	0.02	0.41	0.36	0.12	25.92	3.54	11.44	0.80	0.41	0.22	0.09	
19	0.93	0.02	0.34	5.08	0.22	28.80	3.48	5.49	0.78	0.39	0.22	0.09	
20	0.66	1.00	0.29	3.30	0.29	16.39	29.60	3.72	0.78	0.39	0.22	0.09	
21	0.58	1.60	0.29	1.72	0.34	9.60	67.96	3.00	0.75	0.39	0.22	0.09	
22	0.49	0.71	0.29	0.93	0.39	7.20	22.08	2.65	0.71	0.36	0.22	0.09	
23	0.34	0.34	0.29	0.63	0.34	6.48	28.00	2.50	0.68	0.34	0.22	0.09	
24	0.29	0.44	0.26	0.49	2.70	7.29	29.28	2.30	0.68	0.34	0.19	0.04	
25	0.29	0.49	0.24	0.39	7.47	6.57	15.76	2.00	0.68	0.34	0.19	0.07	
26	0.22	0.29	0.24	0.29	3.90	31.58	15.88	1.85	0.66	0.34	0.19	0.07	
27	0.24	0.71	0.46	0.26	2.35	45.75	17.56	1.76	0.66	0.34	0.19	0.07	
28	0.14	0.80	0.46	0.26	1.85	21.45	16.78	1.64	0.66	0.34	0.19	0.04	
29	0.29	0.49	0.34	0.19	1.44	20.70	13.96	1.52	0.61	0.34		0.04	
30	0.02	0.78	0.31	0.14	1.16	21.92	10.87	1.48	0.58	0.34		0.04	
31		0.51		0.12	1.12		9.00		0.58	0.31		0.04	
TOTAL	14.94	9.63	48.71	17.41	25.41	440.50	453.99	124.32	35.40	14.05	6.94	3.28	1194.58 CMSDAY
MEAN	0.50	0.31	1.62	0.56	0.82	14.68	14.64	4.14	1.14	0.45	0.25	0.11	3.27 CMS
MAX	3.78	1.60	10.65	5.08	7.47	45.75	67.96	11.44	3.54	0.66	0.31	0.19	67.96 CMS
MIN	0.02	0.01	0.12	0.07	0.04	0.78	3.48	1.48	0.58	0.31	0.19	0.04	0.01 CMS
RUNOFF	1.291	0.832	4.209	1.504	2.195	38.059	39.225	10.741	3.059	1.214	0.600	0.283	103.212 MCM

MOMENTARY PEAK 82.38 CMS, AT 217.61 M (MSL), AT 9.00 HOURS, ON OCT 21, 1982

RUNOFF YIELD 7.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 195.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

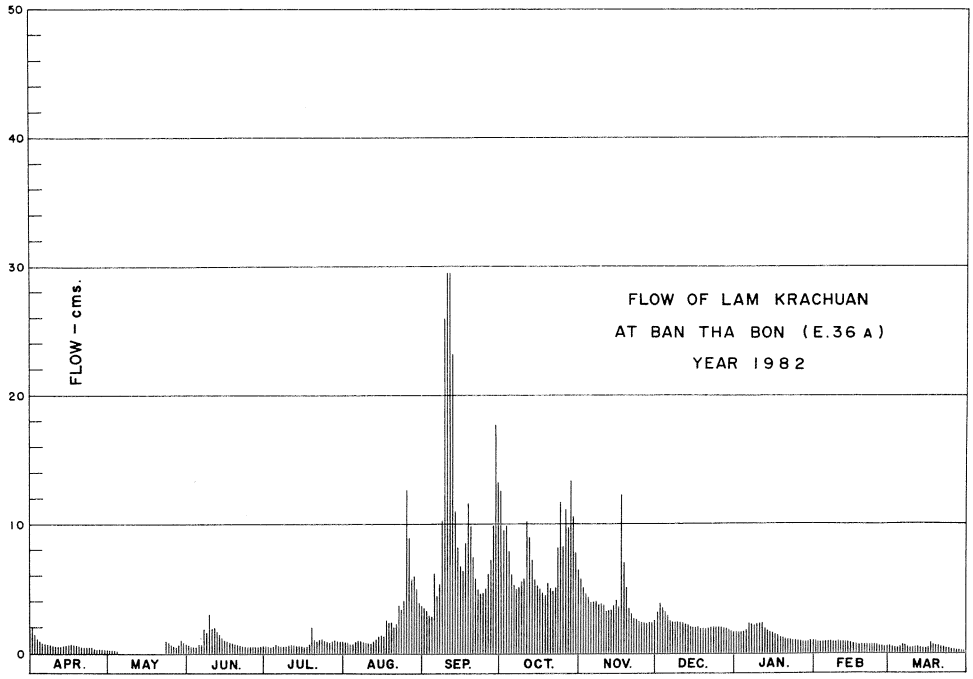
LAM KRACHUAN AT BAN THA BON, CHAIYAPHUM (E.36A)

LOCATION	LAT. 15°-43'-24" N., LONG. 101°-40'-04" E., ON RIGHT BANK ABOUT 2 KILOMETERS UPSTREAM FROM E.36 STATION AT BAN THA BON, KING AMPHOE NONG BUA RAHEO, CHAIYAPHUM.
DRAINAGE AREA	290 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+211.25 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ALONG THE MEASURING LINE.
ELEVATION	+217.647 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 - 1981.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 729 DISCHARGE MEASUREMENTS MADE DURING 1977-1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.49	213.04	213.17	213.15	213.23	213.74	214.47	213.97	213.69	213.41	213.28	213.17	
2	213.35	213.03	213.14	213.15	213.23	213.72	214.27	213.90	213.77	213.40	213.27	213.16	
3	213.28	213.03	213.11	213.13	213.21	213.65	214.31	213.85	213.73	213.41	213.27	213.15	
4	213.25	213.01	213.15	213.14	213.21	213.64	214.14	213.83	213.69	213.42	213.27	213.16	
5	213.23	213.00	213.21	213.17	213.25	213.99	214.00	213.77	213.65	213.44	213.27	213.16	
6	213.21	212.99	213.20	213.17	213.25	213.83	213.93	213.79	213.60	213.54	213.28	213.17	
7	213.20	213.00	213.47	213.16	213.25	213.91	213.89	213.79	213.57	213.52	213.27	213.17	
8	213.20	213.00	213.40	213.15	213.24	214.42	213.89	213.76	213.56	213.51	213.25	213.16	
9	213.18	213.00	213.68	213.15	213.23	215.31	213.94	213.77	213.56	213.52	213.27	213.16	
10	213.17	212.98	213.46	213.17	213.22	215.52	213.97	213.77	213.56	213.56	213.27	213.14	
11	213.16	212.97	213.49	213.18	213.22	215.52	214.33	213.70	213.54	213.56	213.25	213.15	
12	213.16	212.96	213.40	213.18	213.24	215.12	214.23	213.72	213.53	213.46	213.25	213.17	
13	213.18	212.95	213.37	213.16	213.29	214.42	214.06	213.73	213.51	213.43	213.25	213.15	
14	213.19	212.96	213.32	213.15	213.32	214.18	213.96	213.75	213.50	213.41	213.24	213.15	
15	213.19	212.96	213.28	213.14	213.37	214.05	213.91	213.80	213.48	213.41	213.23	213.13	
16	213.20	212.96	213.26	213.12	213.32	214.00	213.89	213.75	213.47	213.39	213.23	213.12	
17	213.19	212.95	213.23	213.10	213.63	214.15	213.85	214.49	213.47	213.35	213.22	213.23	
18	213.18	212.94	213.21	213.18	213.54	214.44	213.81	214.04	213.46	213.32	213.21	213.21	
19	213.17	212.94	213.20	213.49	213.58	214.31	213.93	213.87	213.45	213.32	213.21	213.19	
20	213.15	212.93	213.19	213.26	213.49	214.10	213.90	213.74	213.47	213.30	213.21	213.17	
21	213.14	212.93	213.17	213.23	213.54	213.96	213.87	213.66	213.46	213.29	213.21	213.16	
22	213.13	212.92	213.16	213.28	213.76	213.89	213.89	213.61	213.46	213.29	213.21	213.15	
23	213.12	213.26	213.15	213.29	213.73	213.85	214.14	213.58	213.46	213.29	213.21	213.13	
24	213.11	213.24	213.15	213.27	213.80	213.85	214.45	213.57	213.46	213.28	213.21	213.12	
25	213.10	213.19	213.13	213.24	214.52	213.88	214.15	213.56	213.46	213.28	213.20	213.09	
26	213.09	213.16	213.14	213.23	214.24	214.00	214.40	213.55	213.46	213.27	213.19	213.08	
27	213.08	213.12	213.15	213.27	213.95	214.08	214.29	213.55	213.46	213.27	213.17	213.06	
28	213.07	213.20	213.15	213.29	213.98	214.23	214.58	213.56	213.45	213.26	213.16	213.05	
29	213.05	213.29	213.15	213.26	213.90	214.87	214.39	213.57	213.44	213.26		213.04	
30	213.05	213.23	213.15	213.25	213.80	214.59	214.16	213.57	213.43	213.28		213.03	
31		213.19		213.24	213.77		214.03		213.41	213.28		213.03	
MEAN	213.18	213.04	213.25	213.20	213.53	214.24	214.10	213.75	213.52	213.38	213.23	213.14	
MAX	213.49	213.29	213.68	213.49	214.52	215.52	214.58	214.49	213.77	213.56	213.28	213.23	215.52
MIN	213.05	212.92	213.11	213.10	213.21	213.64	213.81	213.55	213.41	213.26	213.16	213.03	212.92

ANNUAL MAX MOMENTARY GAGE HEIGHT 215.58 M (MSL), AT 24.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 211.25 M (MSL), RIVER BED 212.00 M (MSL)
LEFT BANK ELEVATION 220.07 M (MSL)
RIGHT BANK ELEVATION 219.27 M (MSL), DRAINAGE AREA 290 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.95	0.12	0.51	0.45	0.72	3.46	12.01	5.84	3.04	1.55	0.92	0.51	
2	1.25	0.09	0.42	0.45	0.72	3.28	9.44	5.00	3.73	1.50	0.88	0.48	
3	0.92	0.09	0.33	0.39	0.64	2.80	9.93	4.50	3.37	1.55	0.88	0.45	
4	0.80	0.03	0.45	0.42	0.64	2.74	7.88	4.30	3.04	1.60	0.88	0.48	
5	0.72	0.00	0.64	0.51	0.80	6.08	6.20	3.73	2.80	1.70	0.88	0.48	
6	0.64	0.00	0.60	0.51	0.80	4.30	5.36	3.91	2.50	2.20	0.92	0.51	
7	0.60	0.00	1.85	0.48	0.80	5.12	4.90	3.91	2.35	2.10	0.88	0.51	
8	0.60	0.00	1.50	0.45	0.76	11.36	4.90	3.64	2.30	2.05	0.80	0.48	
9	0.54	0.00	2.98	0.45	0.72	25.29	5.48	3.73	2.30	2.10	0.88	0.48	
10	0.51	0.00	1.80	0.51	0.68	29.40	5.84	3.73	2.30	2.30	0.88	0.42	
11	0.48	0.00	1.95	0.54	0.68	29.40	10.19	3.10	2.20	2.30	0.80	0.45	
12	0.48	0.00	1.50	0.54	0.76	21.76	8.96	3.28	2.15	1.80	0.80	0.51	
13	0.54	0.00	1.35	0.48	0.96	11.36	6.92	3.37	2.05	1.65	0.80	0.45	
14	0.57	0.00	1.10	0.45	1.10	8.36	5.72	3.55	2.00	1.55	0.76	0.45	
15	0.57	0.00	0.92	0.42	1.35	6.80	5.12	4.00	1.90	1.55	0.72	0.39	
16	0.60	0.00	0.84	0.36	1.10	6.20	4.90	3.55	1.85	1.45	0.72	0.36	
17	0.57	0.00	0.72	0.30	2.68	8.00	4.50	12.27	1.85	1.25	0.68	0.72	
18	0.54	0.00	0.64	0.54	2.20	11.62	4.10	6.68	1.80	1.10	0.64	0.64	
19	0.51	0.00	0.60	1.95	2.40	9.93	5.36	4.70	1.75	1.10	0.64	0.57	
20	0.45	0.00	0.57	0.84	1.95	7.40	5.00	3.46	1.85	1.00	0.64	0.51	
21	0.42	0.00	0.51	0.72	2.20	5.72	4.70	2.86	1.80	0.96	0.64	0.48	
22	0.39	0.00	0.48	0.92	3.64	4.90	4.90	2.56	1.80	0.96	0.64	0.45	
23	0.36	0.84	0.45	0.96	3.37	4.50	7.88	2.40	1.80	0.96	0.64	0.39	
24	0.33	0.76	0.45	0.88	4.00	4.50	11.75	2.35	1.80	0.92	0.64	0.36	
25	0.30	0.57	0.39	0.76	12.66	4.80	8.00	2.30	1.80	0.92	0.60	0.27	
26	0.27	0.48	0.42	0.72	9.08	6.20	11.10	2.25	1.80	0.88	0.57	0.24	
27	0.24	0.36	0.45	0.88	5.60	7.16	9.68	2.25	1.80	0.88	0.51	0.18	
28	0.21	0.60	0.45	0.96	5.96	8.96	13.44	2.30	1.75	0.84	0.48	0.15	
29	0.15	0.96	0.45	0.84	5.00	17.62	10.97	2.35	1.70	0.84		0.12	
30	0.15	0.72	0.45	0.80	4.00	13.57	8.12	2.35	1.65	0.92		0.09	
31		0.57		0.76	3.73		6.56		1.55	0.92		0.09	
TOTAL	16.66	6.19	25.77	20.24	81.70	292.59	229.81	114.22	66.38	43.40	20.72	12.67	930.35 CMSDAY
MEAN	0.56	0.20	0.86	0.65	2.64	9.75	7.41	3.81	2.14	1.40	0.74	0.41	2.55 CMS
MAX	1.95	0.96	2.98	1.95	12.66	29.40	13.44	12.27	3.73	2.30	0.92	0.72	29.40 CMS
MIN	0.15	0.00	0.33	0.30	0.64	2.74	4.10	2.25	1.55	0.84	0.48	0.09	0.00 CMS
RUNOFF	1.439	0.535	2.227	1.749	7.059	25.280	19.856	9.869	5.735	3.750	1.790	1.095	80.382 MCM

MOMENTARY PEAK 30.60 CMS, AT 215.58 M (MSL), AT 24.00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 8.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 105.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

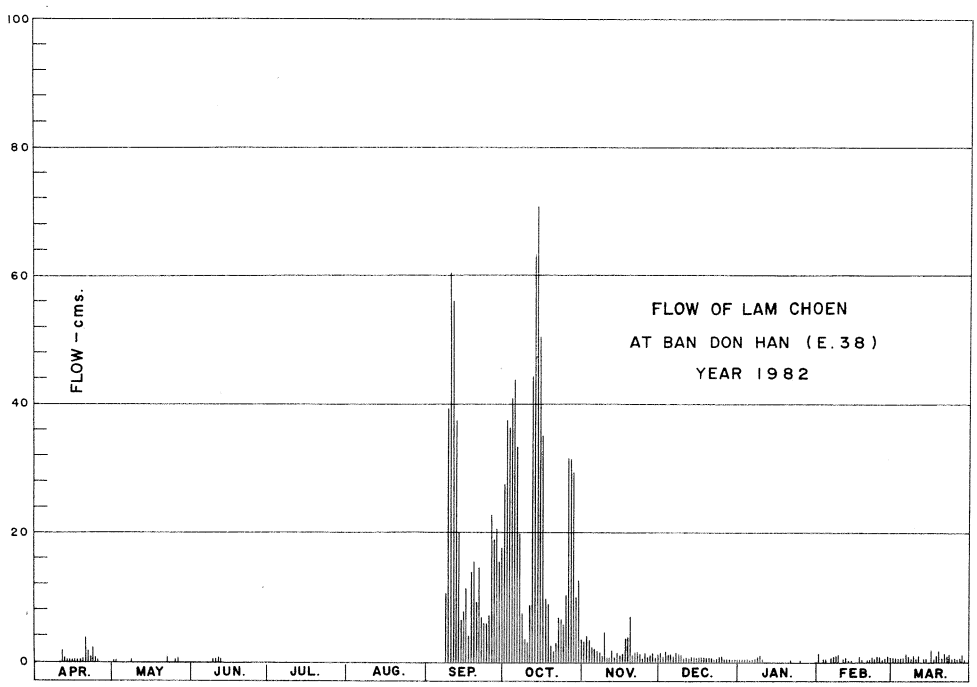
LAM NAM CHOEN AT BAN DON HAN, KHON KAEN (E.38)

LOCATION	LAT. 16°-31'-22" N., LONG. 102°-02'-03" E., ON RIGHT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM THE WIER, BAN DON HAN, AMPHOE CHUM PHAE, KHON KAEN.
DRAINAGE AREA	1,446 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+213.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 8 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+220.442 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974-1978
RATED BY FLOAT	-
RATED BY CURRENT METER	1974-1978
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 635 DISCHARGE MEASUREMENTS MADE DURING 1976-1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.02	213.22	213.02	213.02	213.03	213.07	215.59	213.89	213.63	213.30	213.61	213.43	
2	213.03	213.28	213.02	213.01	213.02	213.07	216.04	213.97	213.32	213.30	213.11	213.40	
3	213.06	213.01	213.03	213.02	213.01	213.07	215.98	213.91	213.66	213.29	213.35	213.40	
4	213.06	213.01	213.01	213.02	213.01	213.06	216.20	213.76	213.51	213.29	213.33	213.41	
5	213.05	213.01	213.01	213.02	213.01	213.06	216.36	213.77	213.57	213.24	213.08	213.41	
6	213.05	213.01	213.02	213.02	213.01	213.08	215.79	213.64	213.39	213.24	213.40	213.63	
7	213.04	213.02	213.03	213.02	213.02	213.12	214.99	213.71	213.62	213.28	213.42	213.51	
8	213.05	213.38	213.02	213.03	213.03	214.20	214.25	213.42	213.54	213.37	213.49	213.29	
9	213.05	213.18	213.35	213.03	213.03	215.64	213.91	214.04	213.54	213.54	213.56	213.60	
10	213.06	213.01	213.30	213.01	213.01	217.18	213.87	213.35	213.29	213.28	213.05	213.29	
11	213.70	213.03	213.43	213.01	213.02	216.86	214.32	213.30	213.40	213.08	213.31	213.53	
12	213.35	213.02	213.37	213.01	213.02	216.16	216.35	213.70	213.26	213.08	213.42	213.34	
13	213.18	213.05	213.14	213.03	213.01	215.44	217.21	213.37	213.38	213.08	213.29	213.42	
14	213.28	213.05	213.07	213.07	213.02	214.22	217.67	213.63	213.37	213.07	213.23	213.38	
15	213.28	213.03	213.01	213.06	213.04	214.32	216.57	213.49	213.35	213.07	213.20	213.54	
16	213.28	213.03	213.01	213.11	213.05	214.57	215.75	213.46	213.37	213.09	213.18	213.75	
17	213.27	213.02	213.07	213.10	213.05	213.98	214.48	213.94	213.36	213.09	213.46	213.19	
18	213.25	213.11	213.06	213.11	213.05	214.74	214.43	213.96	213.36	213.10	213.23	213.49	
19	213.16	213.01	213.03	213.10	213.03	214.84	213.84	214.25	213.37	213.10	213.23	213.72	
20	213.95	213.02	213.01	213.13	213.06	214.43	213.66	213.48	213.37	213.14	213.17	213.10	
21	213.68	213.13	213.01	213.08	213.06	214.79	213.84	213.63	213.37	213.30	213.24	213.63	
22	213.34	213.65	213.02	213.09	213.06	214.24	214.24	213.66	213.29	213.16	213.47	213.51	
23	213.79	213.14	213.01	213.08	213.05	214.17	214.24	213.62	213.24	213.09	213.16	213.63	
24	213.17	213.02	213.03	213.08	213.04	214.17	214.17	213.24	213.39	213.09	213.50	213.28	
25	213.26	213.24	213.03	213.13	213.06	214.28	214.46	213.63	213.45	213.24	213.49	213.32	
26	213.17	213.39	213.03	213.01	213.06	215.27	215.72	213.40	213.26	213.17	213.30	213.40	
27	213.14	213.09	213.02	213.01	213.05	215.06	215.73	213.50	213.27	213.09	213.36	213.21	
28	213.12	213.01	213.02	213.09	213.07	215.16	215.54	213.62	213.28	213.10	213.53	213.63	
29	213.12	213.07	213.01	213.02	213.08	214.86	214.45	213.32	213.28	213.12		213.33	
30	213.02	213.02	213.01	213.01	213.08	215.01	214.67	213.56	213.28	213.09		213.18	
31		213.02		213.01	213.06		213.93		213.29	213.16		213.64	
MEAN	213.23	213.11	213.07	213.05	213.04	214.50	215.10	213.64	213.39	213.18	213.33	213.44	
MAX	213.95	213.65	213.43	213.13	213.08	217.18	217.67	214.25	213.66	213.54	213.61	213.75	217.67
MIN	213.02	213.01	213.01	213.01	213.01	213.06	213.66	213.24	213.24	213.07	213.05	213.10	213.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 217.74 M (MSL), AT 12.00 HOURS, ON OCT 14, 1982
ZERO GAGE AT BOTTOM ELEVATION 213.00 M (MSL), RIVER BED 213.00 M (MSL)
LEFT BANK ELEVATION 220.12 M (MSL)
RIGHT BANK ELEVATION 220.49 M (MSL), DRAINAGE AREA 1446 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.02	0.00	0.00	0.00	0.00	28.71	2.90	1.15	0.10	1.05	0.49	
2	0.00	0.08	0.00	0.00	0.00	0.00	37.30	3.70	0.16	0.10	0.00	0.40	
3	0.00	0.00	0.00	0.00	0.00	0.00	36.12	3.10	1.30	0.09	0.25	0.40	
4	0.00	0.00	0.00	0.00	0.00	0.00	40.50	1.80	0.73	0.09	0.19	0.43	
5	0.00	0.00	0.00	0.00	0.00	0.00	43.70	1.85	0.91	0.04	0.00	0.43	
6	0.00	0.00	0.00	0.00	0.00	0.00	32.51	1.20	0.37	0.04	0.40	1.15	
7	0.00	0.00	0.00	0.00	0.00	0.00	17.35	1.55	1.10	0.08	0.46	0.73	
8	0.00	0.34	0.00	0.00	0.00	6.00	6.60	0.46	0.82	0.31	0.67	0.09	
9	0.00	0.00	0.25	0.00	0.00	29.66	3.10	4.40	0.82	0.82	0.88	1.00	
10	0.00	0.00	0.10	0.00	0.00	60.28	2.70	0.25	0.09	0.08	0.00	0.09	
11	1.50	0.00	0.49	0.00	0.00	53.70	7.46	0.10	0.40	0.00	0.13	0.79	
12	0.25	0.00	0.31	0.00	0.00	39.70	43.50	1.50	0.06	0.00	0.46	0.22	
13	0.00	0.00	0.00	0.00	0.00	25.86	60.91	0.31	0.34	0.00	0.09	0.46	
14	0.08	0.00	0.00	0.00	0.00	6.24	70.74	1.15	0.31	0.00	0.03	0.34	
15	0.08	0.00	0.00	0.00	0.00	7.46	47.90	0.67	0.25	0.00	0.00	0.82	
16	0.08	0.00	0.00	0.00	0.00	11.05	31.75	0.58	0.31	0.00	0.00	1.75	
17	0.07	0.00	0.00	0.00	0.00	3.80	9.70	3.40	0.28	0.00	0.58	0.00	
18	0.05	0.00	0.00	0.00	0.00	13.60	8.95	3.60	0.28	0.00	0.03	0.67	
19	0.00	0.00	0.00	0.00	0.00	15.10	2.40	6.60	0.31	0.00	0.03	1.60	
20	3.50	0.00	0.00	0.00	0.00	8.95	1.30	0.64	0.31	0.00	0.00	0.00	
21	1.40	0.00	0.00	0.00	0.00	14.35	2.40	1.15	0.31	0.10	0.04	1.15	
22	0.22	1.25	0.00	0.00	0.00	6.48	6.48	1.30	0.09	0.00	0.61	0.73	
23	1.95	0.00	0.00	0.00	0.00	5.70	6.48	1.10	0.04	0.00	0.00	1.15	
24	0.00	0.00	0.00	0.00	0.00	5.70	5.70	0.04	0.37	0.00	0.70	0.08	
25	0.06	0.04	0.00	0.00	0.00	6.96	9.40	1.15	0.55	0.04	0.67	0.16	
26	0.00	0.37	0.00	0.00	0.00	22.63	31.18	0.40	0.06	0.00	0.10	0.40	
27	0.00	0.00	0.00	0.00	0.00	18.64	31.37	0.70	0.07	0.00	0.28	0.01	
28	0.00	0.00	0.00	0.00	0.00	20.54	27.76	1.10	0.08	0.00	0.79	1.15	
29	0.00	0.00	0.00	0.00	0.00	15.40	9.25	0.16	0.08	0.00		0.19	
30	0.00	0.00	0.00	0.00	0.00	17.69	12.55	0.88	0.08	0.00		0.00	
31		0.00		0.00	0.00		3.30		0.09	0.00		1.20	
TOTAL	9.24	2.10	1.15	0.00	0.00	415.49	679.07	47.74	12.12	1.89	8.44	18.08	1195.32 CMSDAY
MEAN	0.31	0.07	0.04	0.00	0.00	13.85	21.91	1.59	0.39	0.06	0.30	0.58	3.27 CMS
MAX	3.50	1.25	0.49	0.00	0.00	60.28	70.74	6.60	1.30	0.82	1.05	1.75	70.74 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.04	0.04	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.798	0.181	0.099	0.000	0.000	35.898	58.672	4.125	1.047	0.163	0.729	1.562	103.276 MCM

MOMENTARY PEAK 72.28 CMS, AT 217.74 M (MSL), AT 12.00 HOURS, ON OCT 14, 1982
RUNOFF YIELD 2.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

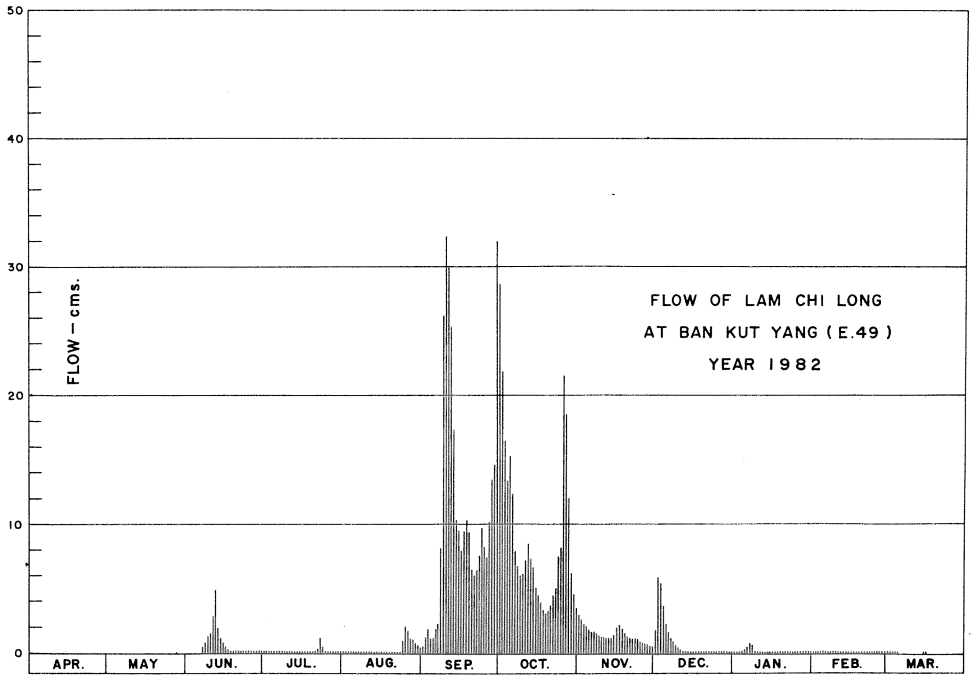
LAM CHI LONG AT BAN KUT YANG, CHAIYAPHUM (E.49)

LOCATION	LAT. 15°-49′-31″ N., LONG. 101°-51′-01″ E., ON LEFT BANK AT BAN KUT YANG, AMPHOE BAN KHWAO, CHAIYAPHUM.
DRAINAGE AREA	265 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+196.06 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF E.49 STATION OFFICE.
ELEVATION	+205.180 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 - 1970, 1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1970, 1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.35	199.13	199.24	199.54	199.50	199.84	203.10	200.89	200.42	199.54	199.40	199.41	
2	199.29	199.12	199.26	199.53	199.50	200.05	202.81	200.75	201.64	199.55	199.41	199.39	
3	199.25	199.11	199.30	199.48	199.56	200.44	202.67	200.62	201.54	199.55	199.38	199.43	
4	199.20	199.11	199.31	199.48	199.52	200.10	202.50	200.55	201.21	199.56	199.36	199.44	
5	199.13	199.10	199.29	199.45	199.50	200.16	202.62	200.46	200.75	199.55	199.41	199.36	
6	199.13	199.10	199.32	199.44	199.48	200.41	202.37	200.39	200.36	199.86	199.37	199.32	
7	199.13	199.10	199.70	199.44	199.49	200.68	202.02	200.37	200.13	199.93	199.38	199.30	
8	199.13	199.10	199.76	199.46	199.49	202.16	201.81	200.31	200.01	199.88	199.39	199.29	
9	199.13	199.11	200.19	199.43	199.52	203.07	201.66	200.24	199.88	199.70	199.42	199.26	
10	199.12	199.11	200.23	199.42	199.53	203.24	201.68	200.19	199.86	199.63	199.39	199.24	
11	199.11	199.10	200.88	199.39	199.52	203.14	201.86	200.17	199.81	199.58	199.39	199.28	
12	199.11	199.10	201.42	199.46	199.51	202.97	202.06	200.15	199.78	199.53	199.41	199.33	
13	199.10	199.12	200.46	199.45	199.48	202.62	201.89	200.14	199.72	199.52	199.38	199.29	
14	199.10	199.16	200.06	199.37	199.48	202.27	201.79	200.15	199.65	199.61	199.38	199.34	
15	199.27	199.14	199.94	199.32	199.46	202.16	201.52	200.18	199.46	199.50	199.42	199.49	
16	199.38	199.13	199.87	199.30	199.51	201.98	201.39	200.47	199.41	199.47	199.37	199.46	
17	199.29	199.13	199.80	199.33	199.62	202.16	201.19	200.61	199.61	199.47	199.39	199.29	
18	199.28	199.11	199.73	199.33	199.64	202.25	201.02	200.44	199.61	199.44	199.44	199.32	
19	199.22	199.11	199.68	199.57	199.56	202.13	200.90	200.32	199.59	199.45	199.39	199.33	
20	199.19	199.12	199.66	199.50	199.53	201.79	200.98	200.20	199.62	199.45	199.46	199.33	
21	199.17	199.12	199.64	199.51	199.58	201.67	201.17	200.15	199.64	199.44	199.39	199.28	
22	199.15	199.11	199.61	199.84	199.62	201.72	201.36	200.12	199.63	199.43	199.37	199.26	
23	199.15	199.10	199.59	200.13	199.79	201.90	201.52	200.10	199.65	199.43	199.36	199.25	
24	199.14	199.09	199.57	199.85	199.77	202.19	201.92	200.06	199.67	199.42	199.38	199.35	
25	199.14	199.09	199.57	199.68	200.51	202.02	202.00	200.02	199.66	199.38	199.46	199.40	
26	199.13	199.09	199.56	199.61	200.42	201.89	202.91	199.95	199.64	199.41	199.48	199.35	
27	199.12	199.31	199.60	199.57	200.13	202.31	202.68	199.92	199.65	199.51	199.43	199.19	
28	199.10	199.40	199.61	199.56	200.08	202.53	202.13	199.90	199.61	199.43	199.46	199.25	
29	199.11	199.36	199.59	199.53	199.94	202.61	201.71	199.88	199.57	199.41		199.36	
30	199.12	199.34	199.56	199.50	199.90	203.23	201.39	199.85	199.57	199.40		199.32	
31		199.23		199.49	199.87		201.12		199.54	199.38		199.26	
MEAN	199.17	199.15	199.77	199.51	199.68	201.86	201.86	200.25	199.93	199.53	199.40	199.33	
MAX	199.38	199.40	201.42	200.13	200.51	203.24	203.10	200.89	201.64	199.93	199.48	199.49	203.24
MIN	199.10	199.09	199.24	199.30	199.46	199.84	200.90	199.85	199.41	199.38	199.36	199.19	199.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 203.33 M (MSL), AT 12.00 HOURS, ON SEP 30, 1982
ZERO GAGE AT BOTTOM ELEVATION 196.06 M (MSL), RIVER BED 198.62 M (MSL)
LEFT BANK ELEVATION 203.85 M (MSL)
RIGHT BANK ELEVATION 203.39 M (MSL), DRAINAGE AREA 265 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.02	0.02	0.29	27.00	2.97	1.75	0.02	0.01	0.01	
2	0.00	0.00	0.00	0.02	0.02	0.95	19.23	2.57	5.80	0.03	0.01	0.01	
3	0.00	0.00	0.00	0.02	0.03	1.80	16.33	2.25	5.36	0.03	0.01	0.01	
4	0.00	0.00	0.00	0.02	0.02	1.05	13.40	2.08	4.04	0.03	0.01	0.01	
5	0.00	0.00	0.00	0.01	0.02	1.17	15.38	1.85	2.57	0.03	0.01	0.01	
6	0.00	0.00	0.00	0.01	0.02	1.73	11.64	1.67	1.60	0.41	0.01	0.00	
7	0.00	0.00	0.04	0.01	0.02	2.40	8.26	1.62	1.11	0.71	0.01	0.00	
8	0.00	0.00	0.05	0.02	0.02	9.44	6.77	1.47	0.87	0.53	0.01	0.00	
9	0.00	0.00	1.23	0.01	0.02	26.10	5.90	1.33	0.53	0.04	0.01	0.00	
10	0.00	0.00	1.31	0.01	0.02	32.36	6.00	1.23	0.41	0.03	0.01	0.00	
11	0.00	0.00	2.94	0.01	0.02	28.44	7.12	1.19	0.11	0.03	0.01	0.00	
12	0.00	0.00	4.88	0.02	0.02	23.19	8.58	1.15	0.05	0.02	0.01	0.00	
13	0.00	0.00	1.85	0.01	0.02	15.38	7.33	1.13	0.04	0.02	0.01	0.00	
14	0.00	0.00	0.97	0.01	0.02	10.50	6.64	1.15	0.03	0.03	0.01	0.00	
15	0.00	0.00	0.73	0.00	0.02	9.44	5.28	1.21	0.02	0.02	0.01	0.02	
16	0.01	0.00	0.47	0.00	0.02	7.96	4.76	1.87	0.01	0.02	0.01	0.02	
17	0.00	0.00	0.05	0.00	0.03	9.44	3.96	2.22	0.03	0.02	0.01	0.00	
18	0.00	0.00	0.04	0.00	0.03	10.30	3.36	1.80	0.03	0.01	0.01	0.00	
19	0.00	0.00	0.04	0.03	0.03	9.17	3.00	1.50	0.03	0.01	0.01	0.00	
20	0.00	0.00	0.04	0.02	0.02	6.64	3.24	1.25	0.03	0.01	0.02	0.00	
21	0.00	0.00	0.03	0.02	0.03	5.95	3.88	1.15	0.03	0.01	0.01	0.00	
22	0.00	0.00	0.03	0.29	0.03	6.22	4.64	1.09	0.03	0.01	0.01	0.00	
23	0.00	0.00	0.03	1.11	0.05	7.40	5.28	1.05	0.03	0.01	0.01	0.00	
24	0.00	0.00	0.03	0.35	0.05	9.71	7.54	0.97	0.04	0.01	0.01	0.00	
25	0.00	0.00	0.03	0.04	1.97	8.26	8.10	0.89	0.04	0.01	0.02	0.01	
26	0.00	0.00	0.03	0.03	1.75	7.33	21.57	0.75	0.03	0.01	0.02	0.00	
27	0.00	0.00	0.03	0.03	1.11	10.92	16.52	0.69	0.03	0.02	0.01	0.00	
28	0.00	0.01	0.03	0.03	1.01	13.88	9.17	0.65	0.03	0.01	0.02	0.00	
29	0.00	0.01	0.03	0.02	0.73	15.19	6.16	0.53	0.03	0.01		0.01	
30	0.00	0.00	0.03	0.02	0.65	31.92	4.76	0.35	0.03	0.01		0.00	
31		0.00		0.02	0.47		3.68		0.02	0.01		0.00	
TOTAL	0.01	0.02	14.94	2.21	8.29	324.53	274.48	41.63	24.76	2.17	0.32	0.11	693.47 CMSDAY
MEAN	0.00	0.00	0.50	0.07	0.27	10.82	8.85	1.39	0.80	0.07	0.01	0.00	1.90 CMS
MAX	0.01	0.01	4.88	1.11	1.97	32.36	27.00	2.97	5.80	0.71	0.02	0.02	32.36 CMS
MIN	0.00	0.00	0.00	0.00	0.02	0.29	3.00	0.35	0.01	0.01	0.01	0.00	0.00 CMS
RUNOFF	0.001	0.002	1.291	0.191	0.716	28.039	23.715	3.597	2.139	0.187	0.028	0.010	59.916 MCM

MOMENTARY PEAK 36.68 CMS, AT 203.33 M (MSL), AT 12.00 HOURS, ON SEP 30, 1982
RUNOFF YIELD 7.17 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 138.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

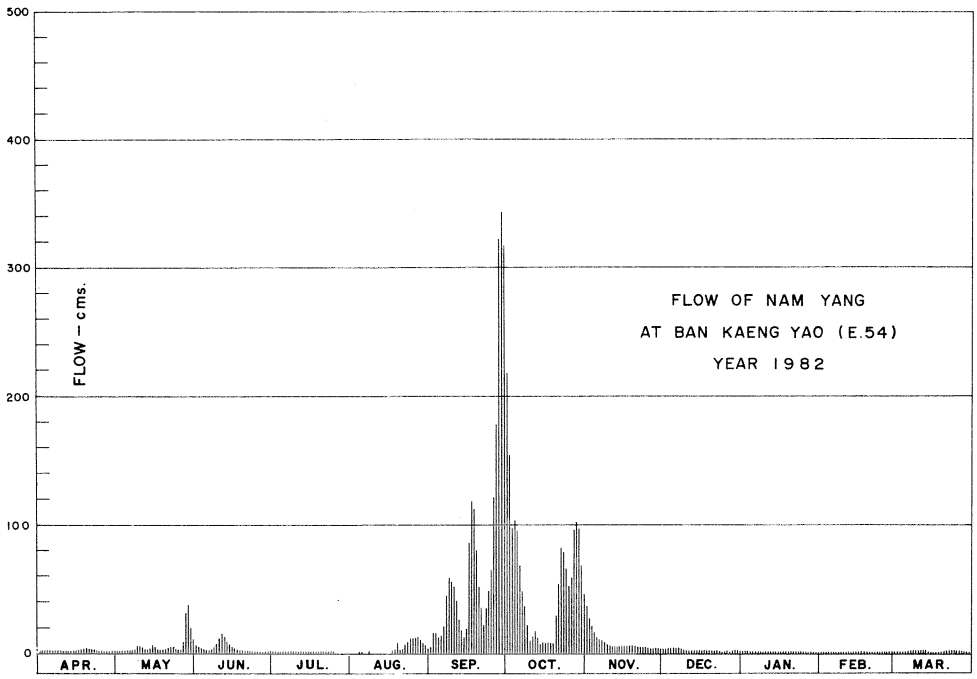
NAM YANG AT BAN KAENG YAO, KALASIN (E.54)

LOCATION	LAT. 16°-26'-29" N., LONG. 104°-02'-07" E., ON LEFT BANK AT BAN KAENG YAO ABOUT 2 KILOMETERS DOWNSTREAM FROM PROPOSED OF USBR DAMSITE, AMPHOE KUCHINARAI, KALASIN.
DRAINAGE AREA	847 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 40 METERS FROM THE GAGE LINE.
ELEVATION	+9.425 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1977
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1977
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 170 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.16	0.95	1.64	0.96	0.78	1.33	6.94	3.10	1.31	1.06	0.98	0.89	
2	1.09	0.94	1.47	0.94	0.77	2.14	6.09	2.78	1.32	1.06	0.97	0.93	
3	1.03	1.02	1.34	0.93	0.79	2.23	4.86	2.46	1.34	1.07	0.96	0.90	
4	1.06	1.09	1.25	0.92	0.85	1.95	5.05	2.25	1.39	1.05	0.98	0.88	
5	1.06	1.15	1.20	1.00	0.83	2.07	4.81	2.01	1.41	1.05	1.00	0.87	
6	1.07	1.19	1.15	0.98	0.81	2.46	4.10	1.91	1.35	1.03	0.96	1.08	
7	1.02	1.12	1.18	0.93	0.82	3.18	3.47	1.81	1.32	1.02	0.96	1.25	
8	1.00	1.23	1.35	0.90	0.84	3.85	2.98	1.75	1.33	1.02	0.95	1.20	
9	0.98	1.64	1.58	0.90	0.82	3.73	2.45	1.72	1.25	1.05	0.97	1.23	
10	0.96	1.63	1.85	0.99	0.79	3.64	1.77	1.64	1.18	1.03	0.96	1.21	
11	0.96	1.48	2.15	0.99	0.80	3.35	2.08	1.57	1.17	1.02	0.93	1.15	
12	0.95	1.36	1.98	0.98	0.80	2.89	2.19	1.51	1.16	1.00	0.94	1.20	
13	0.93	1.25	1.77	0.92	0.79	2.36	1.93	1.55	1.15	1.02	0.93	1.12	
14	1.15	1.40	1.59	0.93	0.80	1.97	1.64	1.52	1.16	1.01	0.92	1.07	
15	1.19	1.65	1.48	0.90	0.79	2.34	1.75	1.53	1.15	1.02	0.91	0.95	
16	1.24	1.53	1.34	0.87	0.80	4.33	1.72	1.54	1.13	1.01	0.92	0.89	
17	1.29	1.39	1.27	0.87	0.98	5.43	1.74	1.54	1.13	1.00	0.91	1.04	
18	1.33	1.28	1.20	1.00	1.19	5.26	1.66	1.60	1.10	0.99	0.92	0.96	
19	1.40	1.20	1.14	0.94	1.71	4.38	1.68	1.56	1.09	0.99	0.91	0.94	
20	1.35	1.27	1.11	0.92	1.10	3.60	2.61	1.52	1.11	1.02	0.91	1.10	
21	1.31	1.39	1.09	0.87	1.18	2.95	3.49	1.48	1.07	1.00	0.90	1.13	
22	1.21	1.44	1.06	0.91	1.60	2.46	4.47	1.47	1.06	0.98	0.89	1.10	
23	1.14	1.53	1.03	0.88	1.76	2.96	4.40	1.45	1.09	1.03	0.90	1.19	
24	1.15	1.32	1.01	0.89	1.93	3.54	4.01	1.46	1.05	1.00	0.93	1.11	
25	1.10	1.24	0.98	0.85	1.96	4.00	3.63	1.47	1.05	0.98	0.94	1.12	
26	1.06	1.16	0.97	0.82	1.95	5.58	3.91	1.36	1.12	0.98	0.95	1.12	
27	1.03	1.14	0.96	0.80	2.00	6.56	4.82	1.38	1.05	0.97	0.90	1.11	
28	1.01	2.83	0.99	0.78	1.87	8.57	5.04	1.40	1.04	0.98	0.88	0.98	
29	0.98	3.10	0.98	0.81	1.67	8.83	4.85	1.38	1.06	0.99		0.94	
30	0.95	2.49	0.96	0.79	1.51	8.46	4.16	1.34	1.06	0.97		0.94	
31		1.95		0.78	1.38		3.54		1.06	0.97		0.90	
MEAN	1.11	1.46	1.30	0.90	1.18	3.88	3.48	1.70	1.17	1.01	0.94	1.05	
MAX	1.40	3.10	2.15	1.00	2.00	8.83	6.94	3.10	1.41	1.07	1.00	1.25	8.83
MIN	0.93	0.94	0.96	0.78	0.77	1.33	1.64	1.34	1.04	0.97	0.88	0.87	0.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.85 M (A.D), AT 15.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.75 M (A.D)
LEFT BANK ELEVATION 11.67 M (A.D)
RIGHT BANK ELEVATION 11.64 M (A.D), DRAINAGE AREA 847 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.68	0.40	6.76	0.44	0.00	3.10	192.40	37.20	2.90	0.96	0.52	0.18	
2	1.14	0.36	4.64	0.36	0.00	15.00	147.54	28.92	3.00	0.96	0.48	0.32	
3	0.78	0.72	3.20	0.32	0.00	16.80	95.88	21.72	3.20	1.02	0.44	0.20	
4	0.96	1.14	2.40	0.28	0.10	11.50	103.10	17.20	3.70	0.90	0.52	0.16	
5	0.96	1.60	2.00	0.60	0.06	13.66	93.98	12.58	3.92	0.90	0.60	0.14	
6	1.02	1.92	1.60	0.52	0.02	21.72	68.40	10.78	3.30	0.78	0.44	1.08	
7	0.72	1.36	1.84	0.32	0.04	39.44	48.10	9.16	3.00	0.72	0.44	2.40	
8	0.60	2.24	3.30	0.20	0.08	59.90	34.08	8.30	3.10	0.72	0.40	2.00	
9	0.52	6.76	5.96	0.20	0.04	55.96	21.50	7.88	2.40	0.90	0.48	2.24	
10	0.44	6.62	9.80	0.56	0.00	53.20	8.58	6.76	1.84	0.78	0.44	2.08	
11	0.44	4.76	15.20	0.56	0.00	44.50	13.84	5.84	1.76	0.72	0.32	1.60	
12	0.40	3.40	12.04	0.52	0.00	31.74	16.00	5.12	1.68	0.60	0.36	2.00	
13	0.32	2.40	8.58	0.28	0.00	19.52	11.14	5.60	1.60	0.72	0.32	1.36	
14	1.60	3.80	6.08	0.32	0.00	11.86	6.76	5.24	1.68	0.66	0.28	1.02	
15	1.92	6.90	4.76	0.20	0.00	19.08	8.30	5.36	1.60	0.72	0.24	0.40	
16	2.32	5.36	3.20	0.14	0.00	76.22	7.88	5.48	1.44	0.66	0.28	0.18	
17	2.72	3.70	2.56	0.14	0.52	118.26	8.16	5.48	1.44	0.60	0.24	0.84	
18	3.10	2.64	2.00	0.60	1.92	111.40	7.04	6.20	1.20	0.56	0.28	0.44	
19	3.80	2.00	1.52	0.36	7.74	77.92	7.32	5.72	1.14	0.56	0.24	0.36	
20	3.30	2.56	1.28	0.28	1.20	52.00	25.02	5.24	1.28	0.72	0.24	1.20	
21	2.90	3.70	1.14	0.14	1.84	33.30	48.70	4.76	1.02	0.60	0.20	1.44	
22	2.08	4.28	0.96	0.24	6.20	21.72	81.12	4.64	0.96	0.52	0.18	1.20	
23	1.52	5.36	0.78	0.16	8.44	33.56	78.60	4.40	1.14	0.78	0.20	1.92	
24	1.60	3.00	0.66	0.18	11.14	50.20	65.34	4.52	0.90	0.60	0.32	1.28	
25	1.20	2.32	0.52	0.10	11.68	65.00	52.90	4.64	0.90	0.52	0.36	1.36	
26	0.96	1.68	0.48	0.04	11.50	124.56	61.94	3.40	1.36	0.52	0.40	1.36	
27	0.78	1.52	0.44	0.00	12.40	170.44	94.36	3.60	0.90	0.48	0.20	1.28	
28	0.66	30.18	0.56	0.00	10.12	317.12	102.72	3.80	0.84	0.52	0.16	0.52	
29	0.52	37.20	0.52	0.02	7.18	343.00	95.50	3.60	0.96	0.56		0.36	
30	0.40	22.38	0.44	0.00	5.12	306.80	70.44	3.20	0.96	0.48		0.36	
31		11.50		0.00	3.60		50.20		0.96	0.48		0.20	
TOTAL	41.36	183.76	105.22	8.08	100.94	2318.48	1726.84	256.34	56.08	21.22	9.58	31.48	4859.38 CMSDAY
MEAN	1.38	5.93	3.51	0.26	3.26	77.28	55.70	8.54	1.81	0.68	0.34	1.02	13.31 CMS
MAX	3.80	37.20	15.20	0.60	12.40	343.00	192.40	37.20	3.92	1.02	0.60	2.40	343.00 CMS
MIN	0.32	0.36	0.44	0.00	0.00	3.10	6.76	3.20	0.84	0.48	0.16	0.14	0.00 CMS
RUNOFF	3.574	15.877	9.091	0.698	8.721	200.317	149.199	22.148	4.845	1.833	0.828	2.720	419.850 MCM

MOMENTARY PEAK 345.00 CMS, AT 8.85 M (A.D), AT 15.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD 15.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 407.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

CHI RIVER BASIN

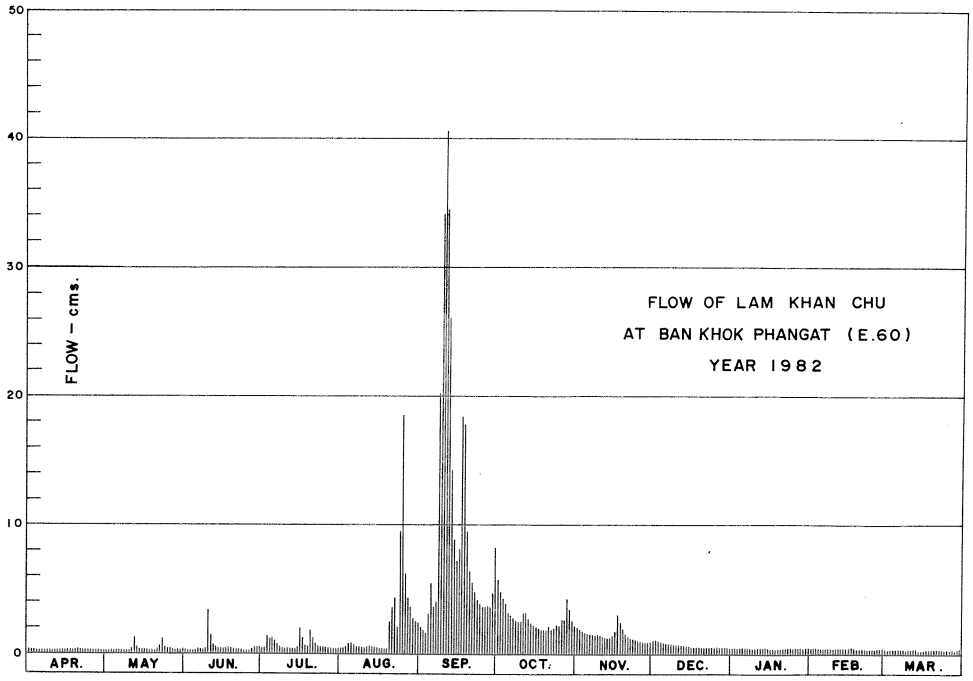
LAM KHAN CHU AT BAN KHOK PHANGAT, CHAIYAPHUM (E.60)

LOCATION	LAT. 15°-29'-14" N., LONG. 101°-33'-32" E., ON LEFT BANK ABOUT 500 METERS FROM BAN KHOK PHANGAT, AMPHOE BAMNET NARONG, CHAIYAPHUM.
DRAINAGE AREA	205 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 8 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+7.326 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 132 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.57	0.61	0.81	0.77	1.40	2.45	1.38	1.05	0.81	0.84	0.70	
2	0.63	0.55	0.59	0.82	0.87	1.30	2.13	1.33	1.05	0.81	0.84	0.67	
3	0.61	0.53	0.58	1.17	0.89	1.25	2.07	1.29	1.05	0.81	0.86	0.74	
4	0.60	0.53	0.58	1.08	0.97	1.61	1.92	1.25	1.00	0.81	0.88	0.70	
5	0.59	0.54	0.57	1.14	0.99	2.31	1.75	1.23	0.99	0.81	0.85	0.73	
6	0.58	0.54	0.72	1.01	0.91	1.89	1.67	1.21	0.98	0.80	0.83	0.70	
7	0.58	0.55	0.68	0.99	0.83	1.96	1.62	1.19	0.96	0.80	0.81	0.70	
8	0.57	0.55	0.65	0.89	0.81	4.06	1.55	1.18	0.95	0.80	0.85	0.70	
9	0.59	0.54	0.67	0.80	0.80	5.30	1.51	1.19	0.95	0.79	0.79	0.69	
10	0.56	0.52	1.78	0.74	0.79	5.64	1.50	1.18	0.95	0.79	0.82	0.70	
11	0.57	0.52	1.27	0.77	0.81	5.72	1.74	1.17	0.93	0.80	0.82	0.70	
12	0.57	1.10	0.94	0.73	0.91	4.70	1.74	1.15	0.91	0.81	0.82	0.72	
13	0.58	0.80	0.83	0.72	0.93	3.57	1.56	1.14	0.91	0.81	0.82	0.71	
14	0.60	0.71	0.73	0.67	0.85	2.97	1.48	1.15	0.90	0.81	0.81	0.68	
15	0.59	0.65	0.71	0.82	0.81	2.65	1.42	1.18	0.90	0.80	0.82	0.66	
16	0.59	0.63	0.69	1.35	0.77	2.77	1.40	1.25	0.88	0.78	0.83	0.66	
17	0.59	0.61	0.75	1.12	0.78	4.18	1.36	1.69	0.87	0.78	0.81	0.70	
18	0.59	0.59	0.71	0.92	0.77	4.10	1.33	1.46	0.89	0.78	0.83	0.75	
19	0.59	0.60	0.70	0.87	0.79	3.02	1.33	1.29	0.87	0.80	0.79	0.78	
20	0.75	0.59	0.64	1.34	1.52	2.55	1.31	1.22	0.85	0.79	0.78	0.72	
21	0.65	0.59	0.63	1.11	1.88	2.31	1.41	1.16	0.85	0.80	0.75	0.73	
22	0.64	0.91	0.61	0.99	2.01	2.16	1.32	1.11	0.84	0.80	0.79	0.79	
23	0.65	1.06	0.60	0.91	1.46	2.02	1.37	1.09	0.84	0.80	0.76	0.71	
24	0.60	0.87	0.59	0.88	2.68	1.92	1.43	1.06	0.83	0.81	0.73	0.69	
25	0.59	0.79	0.59	0.85	4.18	1.86	1.42	1.05	0.84	0.81	0.73	0.70	
26	0.59	0.72	0.59	0.84	2.57	1.84	1.58	1.04	0.83	0.81	0.74	0.61	
27	0.59	0.69	0.60	0.82	2.03	1.88	1.58	1.01	0.83	0.84	0.73	0.72	
28	0.59	0.67	0.87	0.79	1.87	1.82	2.00	1.02	0.82	0.85	0.71	0.60	
29	0.57	0.63	0.83	0.78	1.63	2.12	1.83	1.00	0.82	0.80		0.70	
30	0.56	0.65	0.74	0.76	1.55	2.82	1.54	1.00	0.82	0.86		0.73	
31		0.62		0.75	1.52		1.43		0.81	0.84		0.67	
MEAN	0.60	0.66	0.74	0.91	1.32	2.79	1.60	1.19	0.90	0.81	0.80	0.70	
MAX	0.75	1.10	1.78	1.35	4.18	5.72	2.45	1.69	1.05	0.86	0.88	0.79	5.72
MIN	0.56	0.52	0.57	0.67	0.77	1.25	1.31	1.00	0.81	0.78	0.71	0.60	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.79 M (A.D), AT 15.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.50 M (A.D)
LEFT BANK ELEVATION 7.60 M (A.D)
RIGHT BANK ELEVATION 6.96 M (A.D), DRAINAGE AREA 205 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.17	0.21	0.41	0.37	2.06	6.05	2.00	0.97	0.41	0.44	0.30	
2	0.23	0.15	0.19	0.42	0.47	1.75	4.72	1.84	0.97	0.41	0.44	0.27	
3	0.21	0.13	0.18	1.34	0.49	1.59	4.48	1.72	0.97	0.41	0.46	0.34	
4	0.20	0.13	0.18	1.06	0.72	2.72	3.88	1.59	0.81	0.41	0.48	0.30	
5	0.19	0.14	0.17	1.25	0.78	5.44	3.20	1.53	0.78	0.41	0.45	0.33	
6	0.18	0.14	0.32	0.84	0.53	3.76	2.91	1.47	0.75	0.40	0.43	0.30	
7	0.18	0.15	0.28	0.78	0.43	4.04	2.75	1.41	0.69	0.40	0.41	0.30	
8	0.17	0.15	0.25	0.49	0.41	17.34	2.53	1.37	0.66	0.40	0.45	0.30	
9	0.19	0.14	0.27	0.40	0.40	32.20	2.41	1.41	0.66	0.39	0.39	0.29	
10	0.16	0.12	3.32	0.34	0.39	38.68	2.38	1.37	0.66	0.39	0.42	0.30	
11	0.17	0.12	1.66	0.37	0.41	40.50	3.16	1.34	0.59	0.40	0.42	0.30	
12	0.17	1.13	0.63	0.33	0.53	23.80	3.16	1.28	0.53	0.41	0.42	0.32	
13	0.18	0.40	0.43	0.32	0.59	13.29	2.56	1.25	0.53	0.41	0.42	0.31	
14	0.20	0.31	0.33	0.27	0.45	9.09	2.31	1.28	0.50	0.41	0.41	0.28	
15	0.19	0.25	0.31	0.42	0.41	7.10	2.12	1.37	0.50	0.40	0.42	0.26	
16	0.19	0.23	0.29	1.91	0.37	7.82	2.06	1.59	0.48	0.38	0.43	0.26	
17	0.19	0.21	0.35	1.19	0.38	18.42	1.94	2.97	0.47	0.38	0.41	0.30	
18	0.19	0.19	0.31	0.56	0.37	17.70	1.84	2.25	0.49	0.38	0.43	0.35	
19	0.19	0.20	0.30	0.47	0.39	9.44	1.84	1.72	0.47	0.40	0.39	0.38	
20	0.35	0.19	0.24	1.88	2.44	6.55	1.78	1.50	0.45	0.39	0.38	0.32	
21	0.25	0.19	0.23	1.16	3.72	5.44	2.09	1.31	0.45	0.40	0.35	0.33	
22	0.24	0.53	0.21	0.78	4.24	4.84	1.81	1.16	0.44	0.40	0.39	0.39	
23	0.25	1.00	0.20	0.53	2.25	4.28	1.97	1.09	0.44	0.40	0.36	0.31	
24	0.20	0.47	0.19	0.48	7.28	3.88	2.16	1.00	0.43	0.41	0.33	0.29	
25	0.19	0.39	0.19	0.45	18.42	3.64	2.12	0.97	0.44	0.41	0.33	0.30	
26	0.19	0.32	0.19	0.44	6.65	3.56	2.63	0.94	0.43	0.41	0.34	0.21	
27	0.19	0.29	0.20	0.42	4.32	3.72	2.63	0.84	0.43	0.44	0.33	0.32	
28	0.19	0.27	0.47	0.39	3.68	3.48	4.20	0.88	0.42	0.45	0.31	0.20	
29	0.17	0.23	0.43	0.38	2.78	4.68	3.52	0.81	0.42	0.40		0.30	
30	0.16	0.25	0.34	0.36	2.53	8.12	2.50	0.81	0.42	0.46		0.33	
31		0.22		0.35	2.44		2.16		0.41	0.44		0.27	
TOTAL	6.01	8.81	12.87	20.79	69.64	308.93	85.87	42.07	17.66	12.61	11.24	9.36	605.86 CMSDAY
MEAN	0.20	0.28	0.43	0.67	2.25	10.30	2.77	1.40	0.57	0.41	0.40	0.30	1.66 CMS
MAX	0.35	1.13	3.32	1.91	18.42	40.50	6.05	2.97	0.97	0.46	0.48	0.39	40.50 CMS
MIN	0.16	0.12	0.17	0.27	0.37	1.59	1.78	0.81	0.41	0.38	0.31	0.20	0.12 CMS
RUNOFF	0.519	0.761	1.112	1.796	6.017	26.692	7.419	3.635	1.526	1.090	0.971	0.809	52.346 MCM

MOMENTARY PEAK 42.25 CMS, AT 5.79 M (A.D), AT 15.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 8.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 206.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

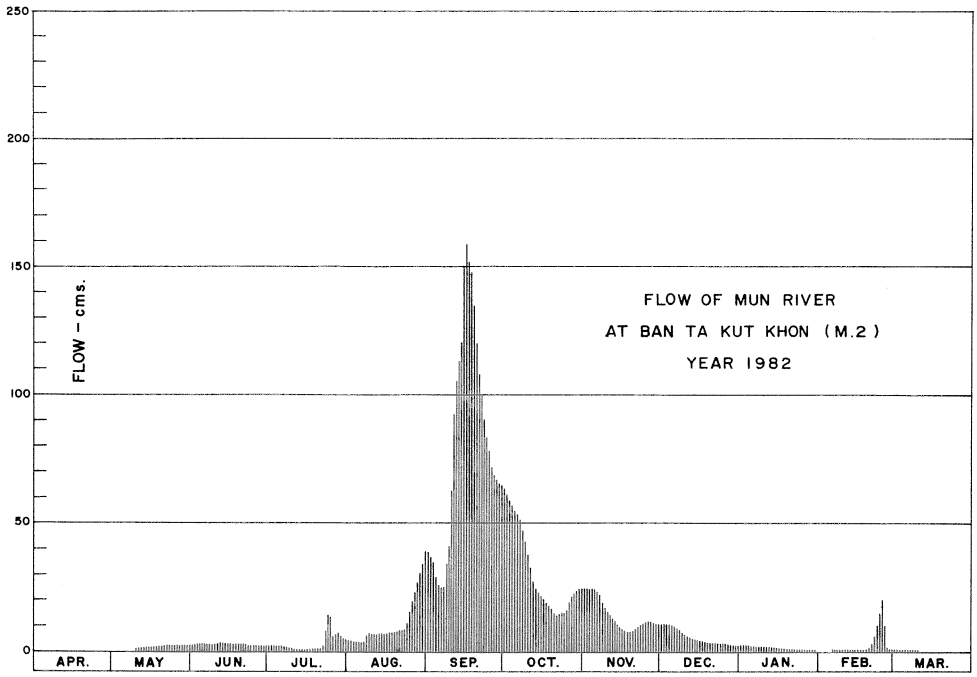
MUN RIVER AT BAN TA KUT KHON, NAKHON RATCHASIMA (M.2)

LOCATION	LAT. 15°-00'-03" N., LONG. 105°-15'-57" E., ON RIGHT BANK AT ABOUT 100 METERS WEST OF BAN THA CHANG SCHOOL, AND ABOUT 30 METERS SOUTH OF PUMPING RAILWAY STATION, AMPHOE CHAKKARAT, NAKHON RATCHASIMA.
DRAINAGE AREA	4,800 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+157.85 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+165.802 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1950 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1960, 1969-1971, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1960, 1969-1971, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION + 164.36 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY THE TEMPORARY WEIR SINCE APR. 1-MAY 4, 1982. STAGE-DISCHARGE RELATION DEFINED BY 100 DISCHARGE MEASUREMENTS MADE IN 1982

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	159.98	161.27	159.95	159.88	160.15	162.44	163.62	161.68	160.75	159.90	159.36	159.63	
2	160.20	161.25	159.95	159.88	160.14	162.35	163.52	161.66	160.75	159.91	159.36	159.57	
3	160.37	161.09	159.96	159.87	160.11	162.24	163.41	161.65	160.76	159.91	159.33	159.52	
4	160.52	159.79	159.97	159.87	160.10	162.01	163.31	161.67	160.74	159.86	159.36	159.54	
5	160.62	159.37	159.98	159.86	160.11	161.77	163.23	161.68	160.73	159.83	159.40	159.56	
6	160.81	159.28	159.99	159.81	160.12	161.69	163.15	161.59	160.66	159.82	159.41	159.53	
7	160.08	159.27	159.96	159.73	160.08	161.73	163.05	161.46	160.55	159.79	159.41	159.54	
8	159.54	159.32	159.96	159.68	160.43	162.10	162.88	161.31	160.50	159.77	159.41	159.52	
9	159.48	159.40	159.98	159.66	160.46	162.55	162.67	161.14	160.44	159.74	159.44	159.48	
10	159.41	159.50	160.00	159.64	160.45	163.63	162.38	161.07	160.40	159.75	159.48	159.44	
11	159.56	159.58	160.01	159.60	160.41	164.61	162.10	160.97	160.32	159.78	159.51	159.39	
12	160.02	159.64	160.01	159.54	160.38	164.95	161.89	160.87	160.29	159.74	159.52	159.38	
13	160.38	159.67	160.01	159.49	160.45	165.09	161.66	160.80	160.25	159.70	159.52	159.37	
14	160.64	159.71	160.01	159.46	160.45	165.25	161.53	160.72	160.23	159.72	159.52	159.34	
15	160.77	159.74	160.00	159.46	160.44	165.59	161.46	160.64	160.21	159.70	159.52	159.30	
16	160.81	159.76	160.00	159.43	160.46	165.69	161.37	160.61	160.19	159.64	159.54	159.31	
17	160.85	159.73	160.00	159.42	160.47	165.64	161.30	160.56	160.16	159.68	159.54	159.29	
18	160.87	159.75	160.00	159.41	160.47	165.56	161.22	160.55	160.13	159.66	159.52	159.30	
19	160.91	159.79	159.99	159.41	160.49	165.40	161.10	160.52	160.10	159.60	159.53	159.30	
20	161.06	159.81	160.01	159.39	160.52	165.22	161.01	160.57	160.07	159.57	159.56	159.33	
21	160.90	159.82	160.00	159.45	160.56	165.04	160.96	160.63	160.05	159.58	159.70	159.36	
22	160.68	159.84	159.99	159.53	160.55	164.86	161.03	160.70	160.03	159.57	160.23	159.38	
23	160.41	159.85	159.97	160.36	160.58	164.62	161.07	160.72	160.02	159.57	160.61	159.37	
24	160.53	159.86	159.86	161.00	160.89	164.35	161.03	160.80	160.01	159.56	161.00	159.38	
25	160.69	159.87	159.86	160.96	161.05	164.12	161.12	160.83	160.01	159.54	161.37	159.37	
26	160.83	159.88	159.89	160.31	161.36	163.95	161.31	160.82	160.00	159.53	160.33	159.38	
27	160.98	159.90	159.89	160.42	161.70	163.82	161.52	160.81	159.99	159.50	159.69	159.35	
28	161.12	159.92	159.89	160.48	161.90	163.74	161.61	160.80	159.96	159.48	159.62	159.31	
29	161.21	159.94	159.88	160.30	162.11	163.70	161.64	160.75	159.93	159.46		159.27	
30	161.27	159.95	159.88	160.24	162.28	163.68	161.65	160.74	159.92	159.42		159.26	
31		159.95		160.19	162.41		161.68		159.91	159.39		159.26	
MEAN	160.52	159.85	159.96	159.86	160.71	163.91	161.95	160.98	160.26	159.67	159.71	159.40	
MAX	161.27	161.27	160.01	161.00	162.41	165.69	163.62	161.68	160.76	159.91	161.37	159.63	165.69
MIN	159.41	159.27	159.86	159.39	160.08	161.69	160.96	160.52	159.91	159.39	159.33	159.26	159.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.70 M (MSL), AT 10.00 HOURS, ON SEP 16, 1982
ZERO GAGE AT BOTTOM ELEVATION 157.85 M (MSL), RIVER BED 158.32 M (MSL)
LEFT BANK ELEVATION 165.70 M (MSL)
RIGHT BANK ELEVATION 164.35 M (MSL), DRAINAGE AREA 4800 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	2.75	2.40	4.13	39.36	63.50	24.70	10.75	2.50	0.00	1.15	
2	0.00	0.00	2.75	2.40	4.05	37.62	61.00	24.40	10.75	2.55	0.00	0.85	
3	0.00	0.00	2.80	2.35	3.83	35.48	58.25	24.25	10.90	2.55	0.00	0.60	
4	0.00	0.00	2.85	2.35	3.75	31.02	56.25	24.55	10.60	2.30	0.00	0.70	
5	0.00	0.00	2.90	2.30	3.83	26.36	54.70	24.70	10.45	2.15	0.00	0.80	
6	0.00	0.00	2.95	2.05	3.90	24.85	53.15	23.35	9.40	2.10	0.05	0.65	
7	0.00	0.00	2.80	1.65	3.60	25.58	51.21	21.40	8.00	1.95	0.05	0.70	
8	0.00	0.00	2.80	1.40	6.80	32.76	47.91	19.15	7.50	1.85	0.05	0.60	
9	0.00	0.00	2.90	1.30	7.10	41.50	43.83	16.60	6.90	1.70	0.20	0.40	
10	0.00	0.50	3.00	1.20	7.00	63.75	38.20	15.55	6.50	1.75	0.40	0.20	
11	0.00	0.90	3.08	1.00	6.60	90.40	32.76	14.05	5.70	1.90	0.55	0.00	
12	0.00	1.20	3.08	0.70	6.30	105.25	28.69	12.55	5.40	1.70	0.60	0.00	
13	0.00	1.35	3.08	0.45	7.00	112.45	24.40	11.50	5.00	1.50	0.60	0.00	
14	0.00	1.55	3.08	0.30	7.00	122.50	22.45	10.30	4.80	1.60	0.60	0.00	
15	0.00	1.70	3.00	0.30	6.90	149.10	21.40	9.10	4.60	1.50	0.60	0.00	
16	0.00	1.80	3.00	0.15	7.10	159.00	20.05	8.65	4.43	1.20	0.70	0.00	
17	0.00	1.65	3.00	0.10	7.20	154.00	19.00	8.10	4.20	1.40	0.70	0.00	
18	0.00	1.75	3.00	0.05	7.20	146.40	17.80	7.70	3.98	1.30	0.60	0.00	
19	0.00	1.95	2.95	0.05	7.40	133.00	16.00	7.70	3.75	1.00	0.65	0.00	
20	0.00	2.05	3.08	0.00	7.70	120.40	14.65	8.20	3.53	0.85	0.80	0.00	
21	0.00	2.10	3.00	0.25	8.10	109.70	13.90	8.95	3.38	0.90	1.50	0.00	
22	0.00	2.20	2.95	0.65	8.00	101.20	14.95	10.00	3.22	0.85	4.80	0.00	
23	0.00	2.25	2.85	6.10	8.30	90.80	15.55	10.30	3.15	0.85	8.65	0.00	
24	0.00	2.30	2.30	14.50	12.85	82.00	14.95	11.50	3.08	0.80	14.50	0.00	
25	0.00	2.35	2.30	13.90	15.25	76.00	16.30	11.95	3.08	0.70	20.05	0.00	
26	0.00	2.40	2.45	5.60	19.90	71.75	19.15	11.80	3.00	0.65	5.80	0.00	
27	0.00	2.50	2.45	6.70	25.00	68.50	22.30	11.65	2.95	0.50	1.45	0.00	
28	0.00	2.60	2.45	7.30	28.88	66.50	23.65	11.50	2.80	0.40	1.10	0.00	
29	0.00	2.70	2.40	5.50	32.96	65.50	24.10	10.75	2.65	0.30		0.00	
30	0.00	2.75	2.40	4.90	36.26	65.00	24.25	10.60	2.60	0.10		0.00	
31		2.75		4.43	38.78		24.70		2.55	0.00		0.00	
TOTAL	0.00	43.30	84.40	92.33	352.67	2447.73	959.00	425.50	169.60	41.40	65.00	6.65	4687.58 CMSDAY
MEAN	0.00	1.40	2.81	2.98	11.38	81.59	30.94	14.18	5.47	1.34	2.32	0.21	12.84 CMS
MAX	0.00	2.75	3.08	14.50	38.78	159.00	63.50	24.70	10.90	2.55	20.05	1.15	159.00 CMS
MIN	0.00	0.00	2.30	0.00	3.60	24.85	13.90	7.70	2.55	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	3.741	7.292	7.977	30.471	211.484	82.858	36.763	14.653	3.577	5.616	0.575	405.007 MCM

MOMENTARY PEAK 160.00 CMS, AT 165.70 M (MSL), AT 10.00 HOURS, ON SEP 16, 1982

RUNOFF YIELD 2.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 33.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

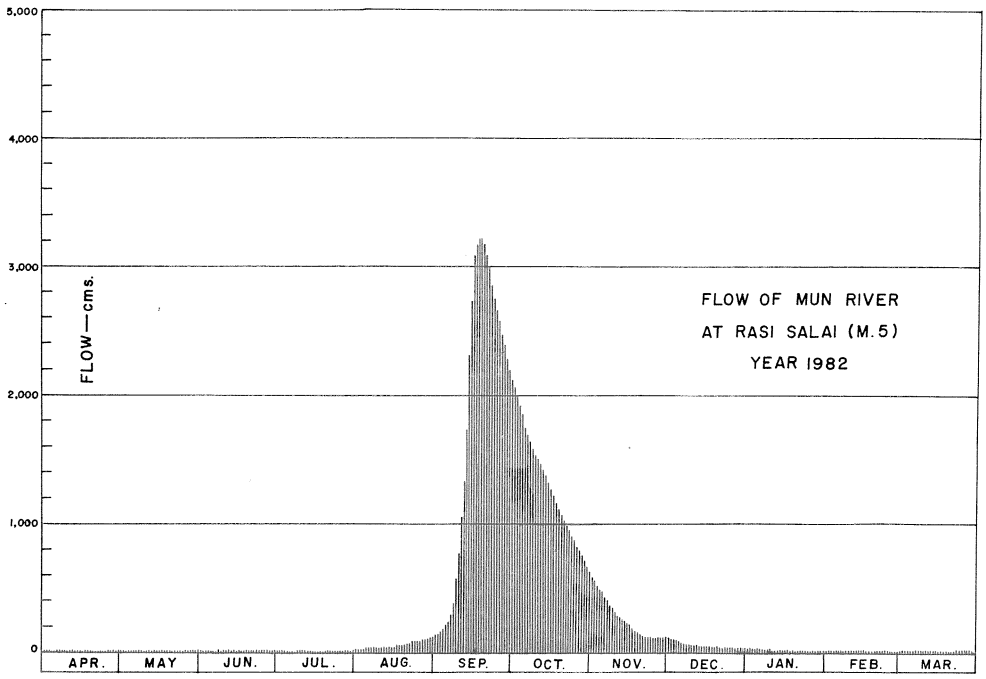
MUN RIVER AT RASI SALAI, SI SA KET (M.5)

LOCATION	LAT. 15°-20'-16" N., LONG. 103°-09'-29" E., ON LEFT BANK INFRONT OF AMPHOE RASI SALAI OFFICE, SI SA KET.
DRAINAGE AREA	44,275 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+110.00 M. (M.S.L.)
BENCH MARK	B.M. OF ARMY SURVEY DEPARTMENT NO.801
LOCATION	EAST OF STAFF GAGE BEHIND AMPHOE RASI SALAI OFFICE.
ELEVATION	+123.156 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1955 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED ADN INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.13	110.18	110.14	110.51	110.53	112.11	120.21	115.59	111.72	110.65	110.41	110.29	
2	110.12	110.17	110.14	110.46	110.54	112.24	120.12	115.36	111.67	110.63	110.40	110.28	
3	110.11	110.16	110.13	110.40	110.53	112.35	120.03	115.13	111.61	110.62	110.40	110.27	
4	110.12	110.16	110.15	110.44	110.63	112.60	119.92	114.89	111.56	110.61	110.39	110.26	
5	110.15	110.15	110.17	110.38	110.66	112.78	119.80	114.68	111.48	110.60	110.39	110.25	
6	110.16	110.14	110.32	110.35	110.65	113.05	119.69	114.49	111.42	110.59	110.38	110.25	
7	110.16	110.13	110.38	110.32	110.77	113.52	119.58	114.30	111.36	110.59	110.38	110.24	
8	110.15	110.16	110.28	110.30	110.80	114.44	119.47	114.11	111.30	110.58	110.38	110.24	
9	110.21	110.18	110.37	110.27	110.80	115.56	119.38	113.92	111.25	110.57	110.37	110.25	
10	110.22	110.18	110.51	110.28	110.79	116.91	119.29	113.73	111.21	110.56	110.37	110.24	
11	110.21	110.19	110.43	110.27	110.77	118.10	119.23	113.54	111.17	110.55	110.36	110.24	
12	110.24	110.19	110.36	110.28	110.78	119.07	119.15	113.34	111.14	110.54	110.36	110.23	
13	110.25	110.18	110.33	110.28	110.88	119.90	119.05	113.15	111.10	110.53	110.36	110.23	
14	110.26	110.21	110.31	110.28	110.93	120.61	118.96	112.96	111.06	110.52	110.35	110.23	
15	110.26	110.23	110.30	110.27	110.95	121.07	118.86	112.79	111.03	110.51	110.35	110.22	
16	110.26	110.21	110.27	110.27	111.14	121.30	118.74	112.61	111.00	110.51	110.34	110.22	
17	110.25	110.19	110.27	110.29	111.34	121.39	118.61	112.48	110.98	110.51	110.34	110.21	
18	110.24	110.19	110.25	110.29	111.36	121.42	118.46	112.32	110.95	110.50	110.33	110.22	
19	110.57	110.18	110.24	110.29	111.33	121.41	118.30	112.17	110.93	110.50	110.33	110.21	
20	110.50	110.17	110.32	110.29	111.34	121.36	118.15	112.04	110.89	110.49	110.33	110.20	
21	110.35	110.15	110.40	110.41	111.38	121.26	117.95	111.93	110.86	110.49	110.32	110.18	
22	110.30	110.14	110.33	110.34	111.47	121.12	117.79	111.85	110.84	110.47	110.32	110.17	
23	110.27	110.13	110.32	110.32	111.51	120.97	117.59	111.79	110.82	110.45	110.31	110.18	
24	110.24	110.13	110.30	110.30	111.50	120.88	117.38	111.78	110.78	110.44	110.30	110.17	
25	110.22	110.15	110.28	110.30	111.52	120.79	117.17	111.77	110.76	110.44	110.29	110.16	
26	110.21	110.13	110.40	110.33	111.59	120.68	116.98	111.77	110.72	110.43	110.28	110.16	
27	110.20	110.13	110.43	110.37	111.65	120.56	116.77	111.79	110.70	110.43	110.27	110.15	
28	110.19	110.15	110.36	110.40	111.70	120.47	116.53	111.82	110.69	110.45	110.28	110.16	
29	110.18	110.16	110.32	110.40	111.84	120.37	116.29	111.80	110.68	110.43		110.15	
30	110.18	110.17	110.35	110.45	111.90	120.28	116.06	111.76	110.66	110.42		110.15	
31		110.15		110.51	111.99		115.83		110.66	110.41		110.14	
MEAN	110.23	110.17	110.31	110.34	111.15	118.29	118.43	113.06	111.06	110.52	110.35	110.21	
MAX	110.57	110.23	110.51	110.51	111.99	121.42	120.21	115.59	111.72	110.65	110.41	110.29	121.42
MIN	110.11	110.13	110.13	110.27	110.53	112.11	115.83	111.76	110.66	110.41	110.27	110.14	110.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 121.42 M (MSL), AT 18.00 HOURS, ON SEP 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 110.00 M (MSL), RIVER BED 109.15 M (MSL)
LEFT BANK ELEVATION 124.57 M (MSL)
RIGHT BANK ELEVATION 122.69 M (MSL), DRAINAGE AREA 44275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.9	2.7	2.1	15.5	16.5	141.0	2109.0	576.6	102.0	22.5	10.5	5.7	
2	1.8	2.6	2.1	13.0	17.0	154.0	2028.0	544.4	97.0	21.5	10.0	5.4	
3	1.7	2.4	1.9	10.0	16.5	165.0	1961.0	512.2	91.0	21.0	10.0	5.1	
4	1.8	2.4	2.3	12.0	21.5	190.0	1884.0	478.6	86.0	20.5	9.6	4.8	
5	2.3	2.3	2.6	9.2	23.0	208.0	1800.0	449.2	78.0	20.0	9.6	4.5	
6	2.4	2.1	6.8	8.0	22.5	236.0	1734.0	422.6	72.0	19.5	9.2	4.5	
7	2.4	1.9	9.2	6.8	28.5	292.4	1668.0	396.0	66.8	19.5	9.2	4.2	
8	2.3	2.4	5.4	6.0	30.0	415.6	1605.0	369.4	62.0	19.0	9.2	4.2	
9	3.3	2.7	8.8	5.1	30.0	572.4	1560.0	342.8	58.0	18.5	8.8	4.5	
10	3.6	2.7	15.5	5.4	29.5	793.8	1515.0	317.6	54.8	18.0	8.8	4.2	
11	3.3	2.9	11.5	5.1	28.5	1055.0	1485.0	294.8	51.9	17.5	8.4	4.2	
12	4.2	2.9	8.4	5.4	29.0	1411.5	1447.5	270.8	49.8	17.0	8.4	3.9	
13	4.5	2.7	7.2	5.4	34.0	1870.0	1402.5	248.0	47.0	16.5	8.4	3.9	
14	4.8	3.3	6.4	5.4	36.5	2469.0	1362.0	226.0	44.2	16.0	8.0	3.9	
15	4.8	3.9	6.0	5.1	37.5	2883.0	1319.0	209.0	42.1	15.5	8.0	3.6	
16	4.8	3.3	5.1	5.1	49.8	3100.0	1271.0	191.0	40.0	15.5	7.6	3.6	
17	4.5	2.9	5.1	5.7	65.2	3190.0	1219.0	178.0	39.0	15.5	7.6	3.3	
18	4.2	2.9	4.5	5.7	66.8	3220.0	1166.0	162.0	37.5	15.0	7.2	3.6	
19	18.5	2.7	4.2	5.7	64.4	3210.0	1115.0	147.0	36.5	15.0	7.2	3.3	
20	15.0	2.6	6.8	5.7	65.2	3160.0	1070.0	134.0	34.5	14.5	7.2	3.0	
21	8.0	2.3	10.0	10.5	68.4	3060.0	1017.5	123.0	33.0	14.5	6.8	2.7	
22	6.0	2.1	7.2	7.6	77.0	2928.0	977.5	115.0	32.0	13.5	6.8	2.6	
23	5.1	1.9	6.8	6.8	81.0	2793.0	928.0	109.0	31.0	12.5	6.4	2.7	
24	4.2	1.9	6.0	6.0	80.0	2712.0	886.0	108.0	29.0	12.0	6.0	2.6	
25	3.6	2.3	5.4	6.0	82.0	2631.0	844.0	107.0	28.0	12.0	5.7	2.4	
26	3.3	1.9	10.0	7.2	89.0	2532.0	806.4	107.0	26.0	11.5	5.4	2.4	
27	3.0	1.9	11.5	8.8	95.0	2424.0	768.6	109.0	25.0	11.5	5.1	2.3	
28	2.9	2.3	8.4	10.0	100.0	2343.0	725.4	112.0	24.5	12.5	5.4	2.4	
29	2.7	2.4	6.8	10.0	114.0	2253.0	686.4	110.0	24.0	11.5		2.3	
30	2.7	2.6	8.0	12.5	120.0	2172.0	649.6	106.0	23.0	11.0		2.3	
31		2.3		15.5	129.0		612.8		23.0	10.5		2.1	
TOTAL	133.6	78.2	202.0	246.2	1747.3	54584.7	39623.2	7576.0	1488.6	491.0	220.5	110.2	106501.5 CMSDAY
MEAN	4.5	2.5	6.7	7.9	56.4	1819.5	1278.2	252.5	48.0	15.8	7.9	3.6	291.8 CMS
MAX	18.5	3.9	15.5	15.5	129.0	3220.0	2109.0	576.6	102.0	22.5	10.5	5.7	3220.0 CMS
MIN	1.7	1.9	1.9	5.1	16.5	141.0	612.8	106.0	23.0	10.5	5.1	2.1	1.7 CMS
RUNOFF	11.54	6.76	17.45	21.27	150.97	4716.12	3423.44	654.57	128.62	42.42	19.05	9.52	9201.73 MCM

MOMENTARY PEAK 3220.00 CMS, AT 121.42 M (MSL), AT 18.00 HOURS, ON SEP 18, 1982
RUNOFF YIELD 6.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

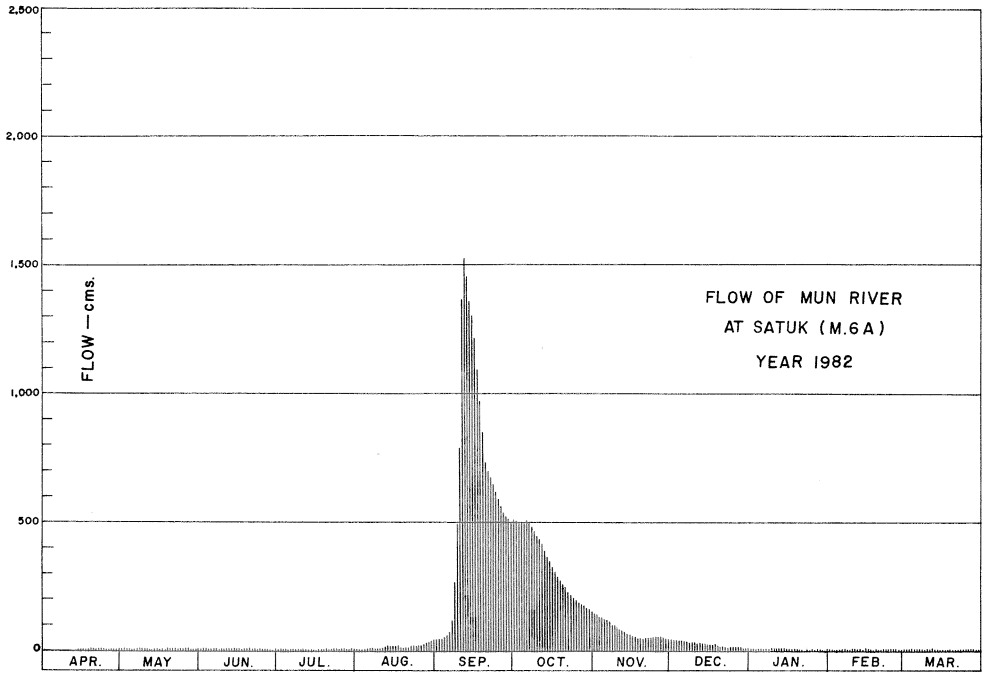
MUN RIVER AT SATUK, BURI RAM (M.6A)

LOCATION	LAT. 15°-17'-44" N., LONG. 103°-17'-51" E., ON RIGHT BANK INFRONT OF AMPHOE SATUK OFFICE, BURI RAM.
DRAINAGE AREA	28,275 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+124.00 M. (M.S.L.)
BENCH MARK	B.M.-B.M.P.1383
LOCATION	INFRONT OF THE POST OFFICE AND ABOUT 80 METERS FROM STAFF GAGE LINE.
ELEVATION	+132.3289 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +129.92 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 128 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.42	124.53	124.48	124.47	124.68	126.09	129.66	127.66	126.13	125.18	124.82	124.68	
2	124.41	124.53	124.47	124.47	124.66	126.13	129.64	127.58	126.09	125.17	124.81	124.68	
3	124.40	124.53	124.47	124.47	124.64	126.17	129.63	127.47	126.05	125.15	124.80	124.68	
4	124.40	124.51	124.46	124.45	124.75	126.29	129.63	127.39	125.99	125.15	124.80	124.68	
5	124.40	124.50	124.47	124.44	124.81	126.44	129.64	127.32	125.96	125.13	124.79	124.67	
6	124.40	124.50	124.48	124.44	124.82	126.74	129.64	127.25	125.92	125.11	124.79	124.67	
7	124.40	124.49	124.51	124.43	124.85	127.75	129.61	127.17	125.88	125.09	124.78	124.66	
8	124.40	124.48	124.54	124.43	124.89	128.82	129.57	127.10	125.85	125.08	124.77	124.66	
9	124.40	124.47	124.60	124.43	124.91	129.70	129.51	127.04	125.83	125.07	124.76	124.65	
10	124.40	124.46	124.64	124.43	124.94	130.40	129.47	126.96	125.80	125.06	124.76	124.65	
11	124.40	124.46	124.66	124.43	125.14	130.82	129.42	126.87	125.77	125.05	124.75	124.65	
12	124.40	124.46	124.68	124.43	125.34	130.86	129.35	126.77	125.75	125.03	124.75	124.65	
13	124.40	124.45	124.69	124.43	125.42	130.76	129.27	126.65	125.72	125.01	124.75	124.65	
14	124.40	124.46	124.68	124.43	125.45	130.71	129.18	126.53	125.69	125.00	124.75	124.64	
15	124.42	124.46	124.67	124.43	125.44	130.70	129.09	126.41	125.66	124.98	124.74	124.64	
16	124.44	124.45	124.63	124.45	125.47	130.61	129.01	126.31	125.61	124.96	124.73	124.63	
17	124.46	124.45	124.59	124.46	125.49	130.48	128.91	126.24	125.56	124.94	124.73	124.63	
18	124.48	124.45	124.57	124.48	125.42	130.31	128.81	126.18	125.52	124.92	124.73	124.62	
19	124.50	124.45	124.56	124.52	125.34	130.18	128.72	126.18	125.48	124.92	124.72	124.61	
20	124.54	124.48	124.54	124.57	125.30	130.08	128.66	126.22	125.45	124.91	124.71	124.61	
21	124.60	124.47	124.54	124.67	125.33	130.03	128.56	126.28	125.40	124.90	124.71	124.61	
22	124.62	124.46	124.53	124.70	125.35	130.01	128.46	126.30	125.37	124.89	124.70	124.60	
23	124.62	124.52	124.51	124.68	125.33	129.96	128.35	126.30	125.34	124.89	124.70	124.59	
24	124.61	124.51	124.48	124.67	125.38	129.90	128.26	126.28	125.32	124.88	124.69	124.59	
25	124.61	124.50	124.47	124.68	125.44	129.84	128.18	126.25	125.29	124.87	124.69	124.58	
26	124.60	124.48	124.47	124.76	125.54	129.77	128.12	126.23	125.28	124.86	124.69	124.57	
27	124.58	124.47	124.47	124.85	125.69	129.71	128.06	126.22	125.27	124.86	124.68	124.57	
28	124.56	124.46	124.47	124.86	125.87	129.68	128.00	126.21	125.26	124.85	124.68	124.57	
29	124.54	124.46	124.46	124.83	126.01	129.65	127.93	126.18	125.25	124.85		124.57	
30	124.53	124.48	124.46	124.78	126.10	129.64	127.86	126.16	125.23	124.84		124.57	
31		124.48		124.72	126.12		127.78		125.20	124.83		124.56	
MEAN	124.48	124.48	124.54	124.56	125.29	129.27	128.90	126.66	125.61	124.98	124.74	124.63	
MAX	124.62	124.53	124.69	124.86	126.12	130.86	129.66	127.66	126.13	125.18	124.82	124.68	130.86
MIN	124.40	124.45	124.46	124.43	124.64	126.09	127.78	126.16	125.20	124.83	124.68	124.56	124.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 130.88 M (MSL), AT 11.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 124.00 M (MSL), RIVER BED 121.40 M (MSL)
LEFT BANK ELEVATION 129.92 M (MSL)
RIGHT BANK ELEVATION 132.60 M (MSL), DRAINAGE AREA 28275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.1	0.4	0.2	0.2	0.9	44.5	514.8	145.8	46.5	9.4	1.6	0.9	
2	0.0	0.4	0.2	0.2	0.8	46.5	507.2	139.6	44.5	9.1	1.5	0.9	
3	0.0	0.4	0.2	0.2	0.8	48.5	503.4	131.9	42.5	8.5	1.5	0.9	
4	0.0	0.3	0.2	0.1	1.3	54.5	503.4	126.3	39.6	8.5	1.5	0.9	
5	0.0	0.3	0.2	0.1	1.5	63.4	507.2	121.4	38.4	7.9	1.5	0.9	
6	0.0	0.3	0.2	0.1	1.6	81.4	507.2	116.5	36.8	7.3	1.5	0.9	
7	0.0	0.3	0.3	0.1	1.7	153.0	495.8	110.9	35.2	6.7	1.4	0.8	
8	0.0	0.2	0.4	0.1	1.9	288.8	481.8	106.0	34.0	6.4	1.3	0.8	
9	0.0	0.2	0.6	0.1	2.2	530.0	461.4	101.8	33.2	6.1	1.3	0.8	
10	0.0	0.2	0.8	0.1	2.8	964.0	448.7	96.2	32.0	5.8	1.3	0.8	
11	0.0	0.2	0.8	0.1	8.2	1464.8	433.2	89.9	30.8	5.5	1.3	0.8	
12	0.0	0.2	0.9	0.1	14.2	1522.4	412.5	83.2	30.0	4.9	1.3	0.8	
13	0.0	0.1	1.0	0.1	16.8	1381.6	389.6	76.0	28.8	4.3	1.3	0.8	
14	0.0	0.2	0.9	0.1	18.0	1313.6	365.0	68.8	27.6	4.0	1.3	0.8	
15	0.1	0.2	0.9	0.1	17.6	1300.0	342.9	61.6	26.4	3.6	1.2	0.8	
16	0.1	0.1	0.7	0.1	18.8	1179.4	326.1	55.6	24.4	3.2	1.2	0.7	
17	0.2	0.1	0.6	0.2	19.6	1044.0	306.0	52.0	22.4	2.8	1.2	0.7	
18	0.2	0.1	0.5	0.2	16.8	888.4	286.9	49.0	20.8	2.4	1.2	0.7	
19	0.3	0.1	0.5	0.4	14.2	789.6	270.6	49.0	19.2	2.4	1.1	0.6	
20	0.4	0.2	0.4	0.5	13.0	728.0	260.2	51.0	18.0	2.2	1.1	0.6	
21	0.6	0.2	0.4	0.9	13.9	698.0	244.0	54.0	16.0	2.0	1.1	0.6	
22	0.7	0.2	0.4	1.0	14.5	686.0	229.0	55.0	15.1	1.9	1.0	0.6	
23	0.7	0.4	0.3	0.9	13.9	656.8	214.0	55.0	14.2	1.9	1.0	0.6	
24	0.6	0.3	0.2	0.9	15.4	622.0	203.6	54.0	13.6	1.9	1.0	0.6	
25	0.6	0.3	0.2	0.9	17.6	592.0	194.8	52.5	12.7	1.9	1.0	0.5	
26	0.6	0.2	0.2	1.3	21.6	559.4	188.2	51.5	12.4	1.8	1.0	0.5	
27	0.5	0.2	0.2	1.7	27.6	534.2	181.6	51.0	12.1	1.8	0.9	0.5	
28	0.5	0.2	0.2	1.8	34.8	522.4	175.0	50.5	11.8	1.7	0.9	0.5	
29	0.4	0.2	0.2	1.7	40.5	511.0	168.7	49.0	11.5	1.7		0.5	
30	0.4	0.2	0.2	1.4	45.0	507.2	162.4	48.0	10.9	1.7		0.5	
31		0.2		1.1	46.0		155.4		10.0	1.7		0.5	
TOTAL	7.0	7.1	13.0	16.8	463.5	19775.4	10440.6	2353.0	771.4	131.0	34.5	21.8	34035.1 CMSDAY
MEAN	0.2	0.2	0.4	0.5	15.0	659.2	336.8	78.4	24.9	4.2	1.2	0.7	93.2 CMS
MAX	0.7	0.4	1.0	1.8	46.0	1522.4	514.8	145.8	46.5	9.4	1.6	0.9	1522.4 CMS
MIN	0.0	0.1	0.2	0.1	0.8	44.5	155.4	48.0	10.0	1.7	0.9	0.5	0.0 CMS
RUNOFF	0.60	0.61	1.12	1.45	40.05	1708.59	902.07	203.30	66.65	11.32	2.98	1.88	2940.63 MCM

MOMENTARY PEAK 1551.21 CMS, AT 130.88 M (MSL), AT 11.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 3.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 54.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

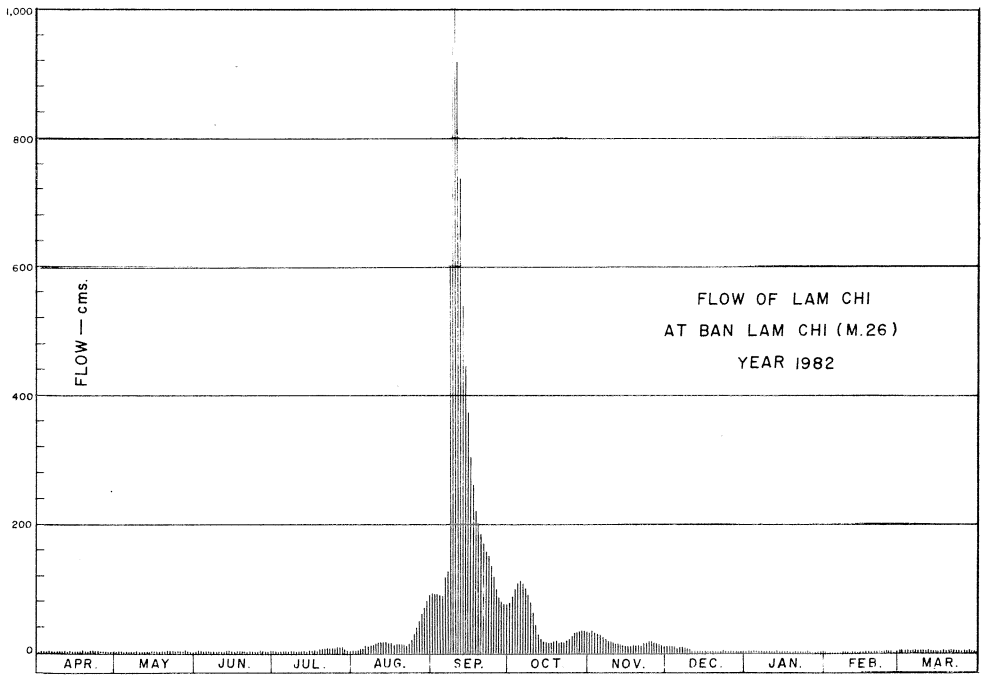
LAM CHI AT BAN LAM CHI, SURIN (M.26)

LOCATION	LAT. 14°-54'-03" N., LONG. 103°-24'-21" E., ON LEFT BANK AT RAILWAY BRIDGE, BAN LAM CHI, AMPHOE MUANG, SURIN.
DRAINAGE AREA	2,927 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+127.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+135.010 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1968, 1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1978 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 147 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	127.52	127.80	127.51	127.69	128.26	134.15	133.47	130.91	128.95	127.73	127.67	127.55	
2	127.62	127.76	127.52	127.67	128.19	134.13	133.93	130.90	128.81	127.68	127.81	127.54	
3	127.63	127.72	127.56	127.67	128.08	134.05	134.37	130.85	128.72	127.66	127.82	127.57	
4	127.61	127.71	127.53	127.80	128.10	133.95	134.64	130.75	128.65	127.62	127.77	127.55	
5	127.60	127.67	127.58	127.78	128.49	134.03	134.72	130.57	128.70	127.61	127.73	127.56	
6	127.57	127.67	127.68	127.76	129.02	135.07	134.63	130.36	128.65	127.62	127.66	127.55	
7	127.60	127.71	127.73	127.63	129.13	136.30	134.43	130.18	128.53	127.62	127.57	127.58	
8	127.61	127.73	127.71	127.52	129.19	138.03	134.10	130.00	128.42	127.61	127.66	127.56	
9	127.58	127.70	127.80	127.63	129.33	138.25	133.55	129.84	128.36	127.61	127.61	127.52	
10	127.73	127.79	127.92	127.62	129.52	137.99	132.70	129.80	128.31	127.58	127.61	127.53	
11	127.73	127.77	127.98	127.60	129.68	137.72	131.73	129.74	128.18	127.64	127.65	127.51	
12	127.68	127.68	128.00	127.64	129.69	137.46	130.81	129.65	128.13	127.61	127.71	127.50	
13	127.64	127.65	127.91	127.73	129.74	137.24	130.22	129.57	128.12	127.61	127.63	127.49	
14	127.63	127.73	127.87	127.76	129.76	137.05	129.91	129.47	128.03	127.59	127.61	127.53	
15	127.64	127.76	127.84	127.86	129.73	136.81	129.79	129.40	128.04	127.61	127.61	127.53	
16	127.65	127.73	127.78	127.86	129.70	136.60	129.75	129.36	127.99	127.60	127.61	127.52	
17	127.65	127.70	127.78	127.96	129.66	136.41	129.75	129.30	127.92	127.58	127.60	127.53	
18	127.62	127.69	127.69	128.12	129.67	136.23	129.82	129.25	127.87	127.58	127.60	127.51	
19	127.67	127.66	127.80	128.28	129.63	136.06	129.81	129.19	127.85	127.58	127.68	127.47	
20	127.65	127.74	127.89	128.31	129.50	135.91	129.67	129.20	127.82	127.57	127.61	127.48	
21	127.65	127.77	127.81	128.34	129.35	135.77	129.74	129.36	127.81	127.59	127.58	127.49	
22	127.62	127.77	127.83	128.46	129.32	135.61	129.95	129.63	127.79	127.60	127.60	127.47	
23	127.67	127.81	127.77	128.60	129.59	135.42	130.06	129.84	127.79	127.57	127.59	127.47	
24	127.70	127.67	127.78	128.67	130.19	135.15	130.25	129.95	127.77	127.63	127.57	127.47	
25	127.67	127.56	127.78	128.70	130.86	134.77	130.60	129.93	127.85	127.64	127.55	127.46	
26	127.80	127.56	127.75	128.77	131.47	134.25	130.80	129.76	127.87	127.62	127.54	127.45	
27	128.42	127.59	127.69	128.83	132.04	133.74	130.90	129.58	127.83	127.59	127.53	127.45	
28	128.27	127.58	127.76	128.75	132.69	133.39	130.93	129.46	127.79	127.59	127.54	127.43	
29	128.02	127.55	127.66	128.65	133.30	133.23	130.95	129.34	127.75	127.57		127.45	
30	127.87	127.53	127.72	128.56	133.77	133.30	130.96	129.15	127.71	127.56		127.48	
31		127.50		128.38	134.05		130.93		127.61	127.66		127.50	
MEAN	127.71	127.69	127.75	128.08	130.02	135.60	131.54	129.81	128.12	127.61	127.63	127.51	
MAX	128.42	127.81	128.00	128.83	134.05	138.25	134.72	130.91	128.95	127.73	127.82	127.58	138.25
MIN	127.52	127.50	127.51	127.52	128.08	133.23	129.67	129.15	127.61	127.56	127.53	127.43	127.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 138.34 M (MSL), AT 24.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 127.00 M (MSL), RIVER BED 127.12 M (MSL)
LEFT BANK ELEVATION 140.52 M (MSL)
RIGHT BANK ELEVATION 140.50 M (MSL), DRAINAGE AREA 2927 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.48	1.60	0.44	1.16	4.52	93.00	79.40	31.65	9.35	1.32	1.08	0.60	
2	0.88	1.44	0.48	1.08	4.03	92.60	88.60	31.50	8.37	1.12	1.64	0.56	
3	0.92	1.28	0.64	1.08	3.26	91.00	99.10	30.75	7.74	1.04	1.68	0.68	
4	0.84	1.24	0.52	1.60	3.40	89.00	109.60	29.25	7.25	0.88	1.48	0.60	
5	0.80	1.08	0.72	1.52	6.13	90.60	112.80	26.55	7.60	0.84	1.32	0.64	
6	0.68	1.08	1.12	1.44	9.84	126.80	109.20	23.40	7.25	0.88	1.04	0.60	
7	0.80	1.24	1.32	0.92	10.61	228.00	101.20	20.70	6.41	0.88	0.68	0.72	
8	0.84	1.32	1.24	0.48	11.03	945.20	92.00	18.00	5.64	0.84	1.04	0.64	
9	0.72	1.20	1.60	0.92	12.01	1140.00	81.00	16.10	5.22	0.84	0.84	0.48	
10	1.32	1.56	2.14	0.88	13.36	912.40	64.00	15.70	4.87	0.72	0.84	0.52	
11	1.32	1.48	2.56	0.80	14.64	732.00	44.60	15.16	3.96	0.96	1.00	0.44	
12	1.12	1.12	2.70	0.96	14.72	591.60	30.15	14.40	3.61	0.84	1.24	0.40	
13	0.96	1.00	2.07	1.32	15.16	497.20	21.30	13.76	3.54	0.84	0.92	0.36	
14	0.92	1.32	1.88	1.44	15.34	429.00	16.83	12.99	2.91	0.76	0.84	0.52	
15	0.96	1.44	1.76	1.84	15.07	353.00	15.61	12.50	2.98	0.84	0.84	0.52	
16	1.00	1.32	1.52	1.84	14.80	292.00	15.25	12.22	2.63	0.80	0.84	0.48	
17	1.00	1.20	1.52	2.42	14.48	250.00	15.25	11.80	2.14	0.72	0.80	0.52	
18	0.88	1.16	1.16	3.54	14.56	219.60	15.90	11.45	1.88	0.72	0.80	0.44	
19	1.08	1.04	1.60	4.66	14.24	200.00	15.80	11.03	1.80	0.72	1.12	0.28	
20	1.00	1.36	1.96	4.87	13.20	185.00	14.56	11.10	1.68	0.68	0.84	0.32	
21	1.00	1.48	1.64	5.08	12.15	171.30	15.16	12.22	1.64	0.76	0.72	0.36	
22	0.88	1.48	1.72	5.92	11.94	157.80	17.35	14.24	1.56	0.80	0.80	0.28	
23	1.08	1.64	1.48	6.90	13.92	145.20	18.90	16.10	1.56	0.68	0.76	0.28	
24	1.20	1.08	1.52	7.39	20.85	130.50	21.75	17.35	1.48	0.92	0.68	0.28	
25	1.08	0.64	1.52	7.60	30.90	114.80	27.00	17.09	1.80	0.96	0.60	0.24	
26	1.60	0.64	1.40	8.09	40.05	95.50	30.00	15.34	1.88	0.88	0.56	0.20	
27	5.64	0.76	1.16	8.51	50.80	84.80	31.50	13.84	1.72	0.76	0.52	0.20	
28	4.59	0.72	1.44	7.95	63.80	77.80	31.95	12.92	1.56	0.76	0.56	0.12	
29	2.84	0.60	1.04	7.25	76.00	74.60	32.25	12.08	1.40	0.68		0.20	
30	1.88	0.52	1.28	6.62	85.40	76.00	32.40	10.75	1.24	0.64		0.32	
31		0.40		5.36	91.00		31.95		0.84	1.04		0.40	
TOTAL	40.31	35.44	43.15	111.44	721.21	8686.30	1432.36	511.94	113.51	26.12	26.08	13.20	11761.06 CMSDAY
MEAN	1.34	1.14	1.44	3.59	23.26	289.54	46.21	17.06	3.66	0.84	0.93	0.43	32.22 CMS
MAX	5.64	1.64	2.70	8.51	91.00	1140.00	112.80	31.65	9.35	1.32	1.68	0.72	1140.00 CMS
MIN	0.48	0.40	0.44	0.48	3.26	74.60	14.56	10.75	0.84	0.64	0.52	0.12	0.12 CMS
RUNOFF	3.483	3.062	3.728	9.628	62.313	750.496	123.756	44.232	9.807	2.257	2.253	1.140	1016.156 MCM

MOMENTARY PEAK 1230.00 CMS, AT 138.34 M (MSL), AT 24.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 11.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 420.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

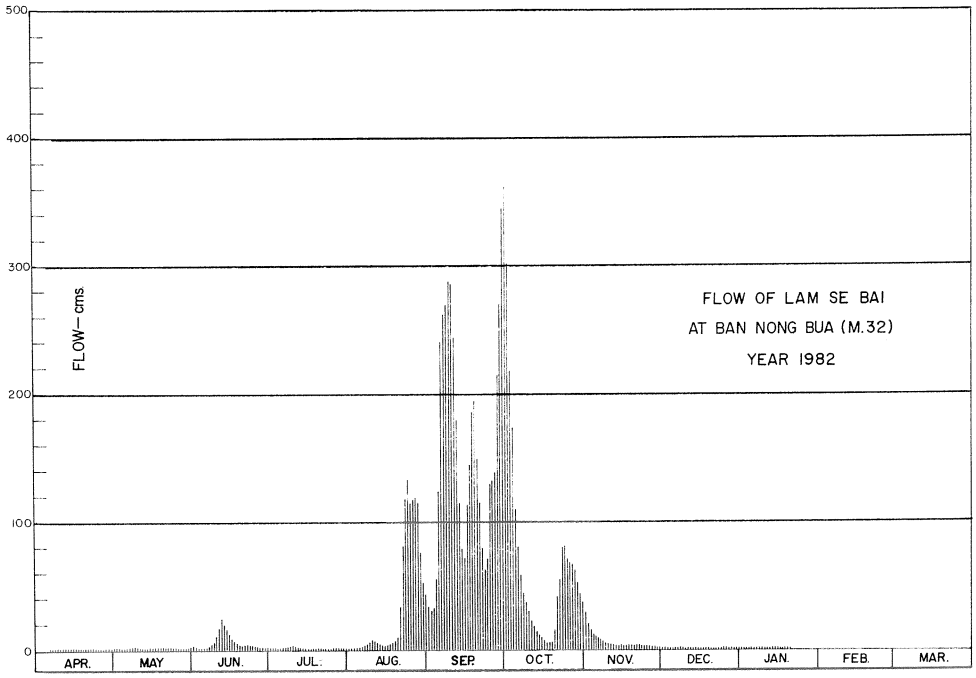
LAM SE BAI AT BAN NONG BUA, YASOTHON (M.32)

LOCATION	LAT. 15°-50'-20" N., LONG. 104°-27'-35" E., ON RIGHT BANK ABOUT 25 METERS UPSTREAM FROM PHAWAPHUTANON BRIDGE, TAMBON PHO SAI, AMPHOE KHAM KHUAN KAEO, YASOTHON.
DRAINAGE AREA	1,654 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+119.90 M. (M.S.L.)
BENCH MARK	B.M.-ARMY SURVEY DEPARTMENT
LOCATION	NEAR THE HIGHWAY DEPARTMENT'S HOUSE.
ELEVATION	+128.833 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1967, 1970-1973.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1967, 1970-1973.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 62 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	119.94	120.06	120.63	120.42	120.11	123.47	126.23	123.22	120.39	120.13	120.00	119.89	
2	119.94	120.06	120.55	120.42	120.10	123.24	125.97	122.90	120.38	120.13	120.00	119.89	
3	119.98	120.06	120.40	120.41	120.10	123.33	125.50	122.26	120.38	120.13	120.00	119.89	
4	120.00	120.06	120.32	120.40	120.10	123.74	124.99	122.26	120.34	120.13	119.99	119.88	
5	120.00	120.06	120.30	120.38	120.10	124.63	124.62	122.02	120.32	120.13	119.99	119.88	
6	120.00	120.12	120.31	120.38	120.14	125.68	124.27	121.81	120.30	120.13	119.99	119.87	
7	120.01	120.36	120.41	120.44	120.56	125.79	123.97	121.59	120.30	120.12	119.99	119.86	
8	120.01	120.37	120.64	120.59	120.93	125.83	123.74	121.44	120.29	120.12	119.99	119.85	
9	120.01	120.59	121.22	120.63	121.22	125.93	123.49	121.30	120.29	120.12	119.98	119.83	
10	120.01	120.56	121.95	120.62	121.48	125.92	123.25	121.16	120.28	120.12	119.98	119.82	
11	120.02	120.41	122.69	120.59	121.45	125.78	123.02	121.06	120.26	120.11	119.98	119.82	
12	120.02	120.31	123.06	120.55	121.31	125.36	122.76	120.98	120.24	120.10	119.98	119.81	
13	120.02	120.28	122.97	120.35	121.02	124.69	122.44	120.91	120.22	120.07	119.98	119.80	
14	120.01	120.28	122.63	120.30	120.67	124.23	122.16	120.84	120.19	120.04	119.98	119.78	
15	120.01	120.25	122.22	120.30	120.61	124.10	121.88	120.80	120.18	120.04	119.97	119.77	
16	120.01	120.24	121.78	120.28	120.60	124.54	121.59	120.77	120.18	120.03	119.96	119.76	
17	120.01	120.29	121.40	120.28	120.68	124.87	121.37	120.76	120.18	120.03	119.95	119.77	
18	120.03	120.42	121.10	120.27	120.83	125.28	121.23	120.75	120.18	120.03	119.95	119.73	
19	120.04	120.37	120.87	120.26	121.13	125.35	121.37	120.77	120.18	120.01	119.95	119.73	
20	120.04	120.34	120.69	120.26	121.51	124.96	122.54	120.78	120.18	120.01	119.94	119.72	
21	120.03	120.25	120.73	120.26	123.28	124.49	123.53	120.75	120.16	120.00	119.93	119.70	
22	120.04	120.20	120.80	120.26	124.09	124.20	123.95	120.71	120.16	120.00	119.92	119.70	
23	120.04	120.20	120.79	120.25	124.58	123.95	124.25	120.66	120.15	120.00	119.92	119.67	
24	120.03	120.24	120.68	120.25	124.82	124.18	124.28	120.60	120.14	120.00	119.92	119.65	
25	120.02	120.29	120.56	120.26	124.53	124.78	124.13	120.54	120.14	120.00	119.92	119.63	
26	120.03	120.30	120.52	120.25	124.39	124.83	124.11	120.52	120.14	120.00	119.92	119.62	
27	120.02	120.32	120.48	120.24	124.69	124.88	124.09	120.51	120.13	120.00	119.92	119.60	
28	120.03	120.31	120.46	120.24	124.64	125.30	124.05	120.49	120.13	120.00	119.92	119.57	
29	120.06	120.31	120.45	120.23	124.27	125.83	123.88	120.45	120.13	120.00		119.56	
30	120.06	120.44	120.44	120.22	123.92	126.19	123.67	120.44	120.13	120.00		119.56	
31		120.63		120.16	123.68		123.48		120.13	120.00		119.53	
MEAN	120.02	120.29	121.07	120.35	121.99	124.85	123.54	121.14	120.22	120.06	119.96	119.75	
MAX	120.06	120.63	123.06	120.63	124.82	126.19	126.23	123.22	120.39	120.13	120.00	119.89	126.23
MIN	119.94	120.06	120.30	120.16	120.10	123.24	121.23	120.44	120.13	120.00	119.92	119.53	119.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 126.26 M (MSL), AT 1.00 HOURS, ON OCT 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 119.90 M (MSL), RIVER BED 116.88 M (MSL)
LEFT BANK ELEVATION 127.37 M (MSL)
RIGHT BANK ELEVATION 127.65 M (MSL), DRAINAGE AREA 1654 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.24	2.52	1.68	0.44	33.95	353.80	26.20	1.56	0.52	0.00	0.00	
2	0.00	0.24	2.20	1.68	0.40	26.70	295.00	20.30	1.52	0.52	0.00	0.00	
3	0.00	0.24	1.60	1.64	0.40	29.19	214.00	13.24	1.52	0.52	0.00	0.00	
4	0.00	0.24	1.28	1.60	0.40	46.00	149.90	13.24	1.36	0.52	0.00	0.00	
5	0.00	0.24	1.20	1.52	0.40	113.00	112.00	11.08	1.28	0.52	0.00	0.00	
6	0.00	0.48	1.24	1.52	0.56	241.80	79.60	9.19	1.20	0.52	0.00	0.00	
7	0.04	1.44	1.64	1.76	2.24	261.20	58.20	7.53	1.20	0.48	0.00	0.00	
8	0.04	1.48	2.56	2.36	3.72	268.40	46.00	6.54	1.16	0.48	0.00	0.00	
9	0.04	2.36	5.22	2.52	5.22	287.00	34.65	5.70	1.16	0.48	0.00	0.00	
10	0.04	2.24	10.45	2.48	6.78	285.00	26.95	4.86	1.12	0.48	0.00	0.00	
11	0.08	1.64	17.69	2.36	6.60	259.40	22.10	4.30	1.04	0.44	0.00	0.00	
12	0.08	1.24	22.90	2.20	5.76	194.80	18.52	3.92	0.96	0.40	0.00	0.00	
13	0.08	1.12	21.28	1.40	4.10	119.00	15.00	3.64	0.88	0.28	0.00	0.00	
14	0.04	1.12	17.03	1.20	2.68	76.40	12.34	3.36	0.76	0.16	0.00	0.00	
15	0.04	1.00	12.88	1.20	2.44	67.00	9.82	3.20	0.72	0.16	0.00	0.00	
16	0.04	0.96	8.94	1.12	2.40	104.00	7.53	3.08	0.72	0.12	0.00	0.00	
17	0.04	1.16	6.30	1.12	2.72	137.00	6.12	3.04	0.72	0.12	0.00	0.00	
18	0.12	1.68	4.50	1.08	3.32	184.60	5.28	3.00	0.72	0.12	0.00	0.00	
19	0.16	1.48	3.48	1.04	4.68	193.50	6.12	3.08	0.72	0.04	0.00	0.00	
20	0.16	1.36	2.76	1.04	6.97	146.60	16.04	3.12	0.72	0.04	0.00	0.00	
21	0.12	1.00	2.92	1.04	27.70	99.10	36.20	3.00	0.64	0.00	0.00	0.00	
22	0.16	0.80	3.20	1.04	66.30	74.00	57.00	2.84	0.64	0.00	0.00	0.00	
23	0.16	0.80	3.16	1.00	108.00	57.00	78.00	2.64	0.60	0.00	0.00	0.00	
24	0.12	0.96	2.72	1.00	132.00	72.60	80.40	2.40	0.56	0.00	0.00	0.00	
25	0.08	1.16	2.24	1.04	103.00	128.00	69.10	2.16	0.56	0.00	0.00	0.00	
26	0.12	1.20	2.08	1.00	90.10	133.00	67.70	2.08	0.56	0.00	0.00	0.00	
27	0.08	1.28	1.92	0.96	119.00	138.00	66.30	2.04	0.52	0.00	0.00	0.00	
28	0.12	1.24	1.84	0.96	114.00	187.00	63.50	1.96	0.52	0.00	0.00	0.00	
29	0.24	1.24	1.80	0.92	79.60	268.40	53.00	1.80	0.52	0.00		0.00	
30	0.24	1.76	1.76	0.88	55.20	343.60	42.50	1.76	0.52	0.00		0.00	
31		2.52		0.64	43.00		34.30		0.52	0.00		0.00	
TOTAL	2.44	35.92	171.31	43.00	1000.13	4575.24	2136.97	174.30	27.20	6.92	0.00	0.00	8173.43 CMSDAY
MEAN	0.08	1.16	5.71	1.39	32.26	152.51	68.93	5.81	0.88	0.22	0.00	0.00	22.39 CMS
MAX	0.24	2.52	22.90	2.52	132.00	343.60	353.80	26.20	1.56	0.52	0.00	0.00	353.80 CMS
MIN	0.00	0.24	1.20	0.64	0.40	26.70	5.28	1.76	0.52	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.211	3.103	14.801	3.715	86.411	395.301	184.634	15.060	2.350	0.598	0.000	0.000	706.184 MCM

MOMENTARY PEAK 361.60 CMS AT 126.26 M (MSL), AT 1.00 HOURS, ON OCT 1, 1982

RUNOFF YIELD 13.54 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 218.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

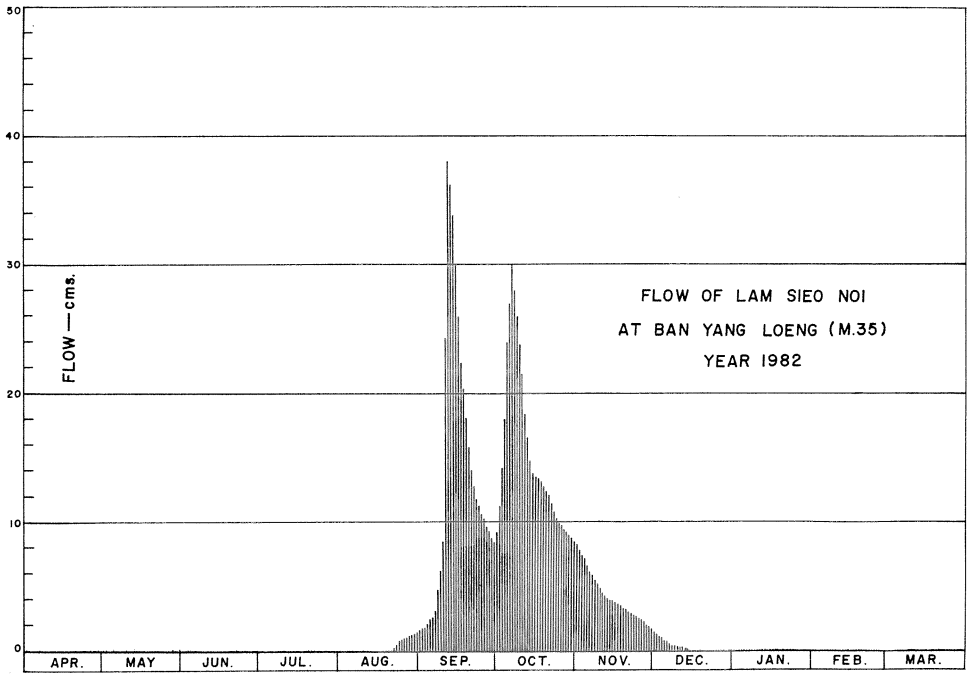
LAM SIEO NOI AT BAN YANG LOENG, ROI-ET (M.35)

LOCATION	LAT. 15°-38'-49" N., LONG. 103°-45'-00" E., ON RIGHT BANK AT THE BRIDGE ON HIGHWAY, BAN YANG LOENG, TAMBON SUNG YANG, AMPHOE SUWANNAPHUM, ROI-ET.
DRAINAGE AREA	672 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+121.876 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+126.666 M.(M.S.L)
GAGE READING FREQUENCY	3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00, AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1974, 1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1974, 1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY THE WEIR AT A POINT OF ABOUT 3 KILOMETERS DOWNSTREAM. STAGE-DISCHARGE RELATION DEFINED BY 8 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	122.55	122.55	122.42	123.08	122.95	123.53	124.17	124.10	123.51	122.99	122.90	122.75	
2	122.54	122.54	122.41	123.07	122.94	123.54	124.31	124.07	123.49	122.97	122.89	122.75	
3	122.55	122.53	122.41	123.06	122.93	123.57	124.46	124.05	123.46	122.96	122.89	122.74	
4	122.54	122.52	122.41	123.05	123.02	123.61	124.59	124.03	123.44	122.95	122.89	122.74	
5	122.53	122.51	122.42	123.04	123.02	123.63	124.69	123.99	123.42	122.94	122.88	122.73	
6	122.52	122.51	122.41	123.03	123.01	123.66	124.73	123.97	123.40	122.93	122.88	122.72	
7	122.52	122.50	122.52	123.02	123.04	123.75	124.75	123.93	123.38	122.92	122.87	122.71	
8	122.51	122.50	122.56	123.00	123.05	123.90	124.72	123.90	123.36	122.93	122.87	122.70	
9	122.58	122.49	122.57	122.99	123.05	123.98	124.67	123.87	123.36	122.93	122.86	122.70	
10	122.58	122.49	122.70	123.02	123.06	124.13	124.64	123.84	123.35	122.93	122.85	122.69	
11	122.57	122.50	122.73	123.02	123.05	124.79	124.59	123.81	123.33	122.92	122.85	122.69	
12	122.57	122.49	122.74	123.02	123.06	124.87	124.53	123.79	123.33	122.92	122.84	122.68	
13	122.56	122.48	122.77	123.01	123.06	124.84	124.46	123.78	123.32	122.92	122.85	122.67	
14	122.56	122.50	122.81	123.00	123.06	124.78	124.41	123.77	123.31	122.92	122.84	122.66	
15	122.56	122.49	122.90	122.99	123.05	124.73	124.38	123.76	123.29	122.91	122.84	122.66	
16	122.56	122.49	122.89	122.98	123.06	124.68	124.37	123.75	123.27	122.91	122.84	122.65	
17	122.56	122.48	122.94	122.97	123.12	124.62	124.36	123.74	123.26	122.92	122.83	122.64	
18	122.55	122.48	122.97	122.98	123.15	124.56	124.35	123.73	123.25	122.93	122.83	122.64	
19	122.63	122.47	122.99	122.97	123.15	124.51	124.33	123.71	123.23	122.92	122.82	122.63	
20	122.63	122.46	123.06	122.96	123.17	124.45	124.32	123.70	123.22	122.92	122.81	122.63	
21	122.62	122.46	123.09	123.02	123.30	124.40	124.30	123.69	123.21	122.92	122.81	122.62	
22	122.62	122.45	123.09	123.05	123.33	124.34	124.27	123.67	123.18	122.91	122.80	122.61	
23	122.61	122.45	123.07	123.05	123.35	124.31	124.24	123.66	123.14	122.91	122.80	122.61	
24	122.61	122.45	123.06	123.04	123.40	124.27	124.21	123.65	123.11	122.91	122.79	122.60	
25	122.60	122.44	123.06	123.02	123.43	124.24	124.18	123.64	123.10	122.91	122.78	122.60	
26	122.59	122.44	123.12	123.00	123.44	124.21	124.18	123.63	123.09	122.90	122.78	122.59	
27	122.58	122.43	123.11	122.99	123.46	124.19	124.16	123.61	123.09	122.90	122.77	122.59	
28	122.57	122.42	123.10	122.98	123.46	124.16	124.15	123.59	123.09	122.90	122.76	122.58	
29	122.56	122.43	123.09	122.96	123.48	124.14	124.14	123.56	123.08	122.90		122.57	
30	122.56	122.43	123.08	122.95	123.49	124.12	124.13	123.54	123.08	122.90		122.56	
31		122.43		122.96	123.51		124.11		123.05	122.90		122.55	
MEAN	122.57	122.48	122.82	123.01	123.18	124.22	124.38	123.78	123.26	122.92	122.84	122.65	
MAX	122.63	122.55	123.12	123.08	123.51	124.87	124.75	124.10	123.51	122.99	122.90	122.75	124.87
MIN	122.51	122.42	122.41	122.95	122.93	123.53	124.11	123.54	123.05	122.90	122.76	122.55	122.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 124.88 M (MSL), AT 12.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 121.88 M (MSL), RIVER BED 121.46 M (MSL)
LEFT BANK ELEVATION 126.54 M (MSL)
RIGHT BANK ELEVATION 126.46 M (MSL), DRAINAGE AREA 672 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	1.57	9.46	8.20	1.42	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	1.65	12.13	7.75	1.28	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	1.88	15.88	7.45	1.07	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	2.20	20.42	7.15	0.93	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	2.40	26.29	6.57	0.79	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	2.70	28.73	6.31	0.65	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	3.65	29.95	5.79	0.52	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	5.40	28.12	5.40	0.39	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	6.44	25.07	5.04	0.39	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	8.74	23.24	4.68	0.32	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	32.39	20.42	4.32	0.19	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	37.90	18.14	4.09	0.19	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	35.80	15.88	3.98	0.13	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	31.78	14.48	3.87	0.06	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	28.73	13.74	3.76	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	25.68	13.51	3.65	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	22.02	13.28	3.54	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	19.28	13.05	3.43	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	17.38	12.59	3.21	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	15.60	12.36	3.10	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	14.20	11.90	3.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.19	12.82	11.33	2.80	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.32	12.13	10.76	2.70	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.65	11.33	10.19	2.60	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.86	10.76	9.64	2.50	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.93	10.19	9.64	2.40	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	1.07	9.82	9.28	2.20	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	1.07	9.28	9.10	2.02	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	1.21	8.92	8.92	1.80	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	1.28	8.56	8.74	1.65	0.00	0.00		0.00	
31		0.00		0.00	1.42		8.38		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.00	9.00	411.20	474.62	124.96	8.33	0.00	0.00	0.00	1028.11 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.29	13.71	15.31	4.17	0.27	0.00	0.00	0.00	2.82 CMS
MAX	0.00	0.00	0.00	0.00	1.42	37.90	29.95	8.20	1.42	0.00	0.00	0.00	37.90 CMS
MIN	0.00	0.00	0.00	0.00	0.00	1.57	8.38	1.65	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.778	35.528	41.007	10.797	0.720	0.000	0.000	0.000	88.829 MCM

MOMENTARY PEAK 38.60 CMS, AT 124.88 M (MSL), AT 12.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 4.19 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

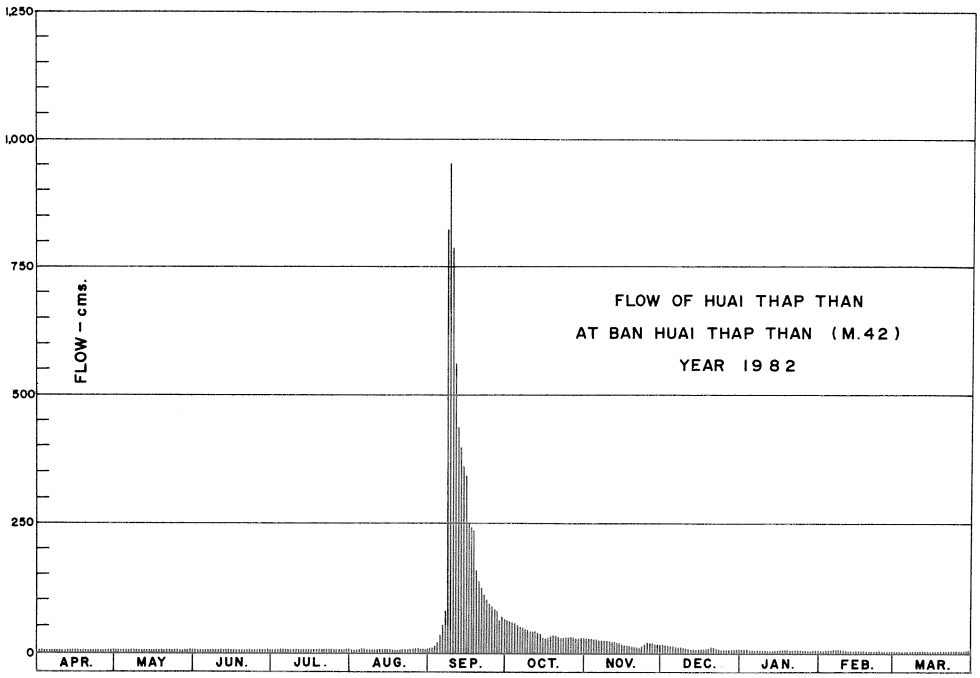
HUAI THAP THAN AT BAN HUAI THAP THAN, SI SA KET (M.42)

LOCATION	LAT. 15°-02'-42" N., LONG. 104°-01'-29" E., ON LEFT BANK AT THE BRIDGE ON HIGHWAY, AMPHOE UTHUMPHON PHISAI, SI SA KET.
DRAINAGE AREA	1,794 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK UNDER TAMARIND TREE INFRONT OF THE JOSS HOUSE, ABOUT 120 METERS FROM THE GAGE SITE.
ELEVATION	+9.820 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972 - 1981.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 174 DISCHARGE MEASUREMENTS MADE DURING 1977-1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	0.54	0.54	0.73	0.92	1.48	6.24	3.66	2.61	0.78	0.70	0.70	
2	0.79	0.49	0.53	0.73	0.86	1.71	6.14	3.60	2.49	0.78	0.70	0.70	
3	0.79	0.46	0.53	0.74	0.87	2.05	6.03	3.55	2.33	0.78	0.71	0.69	
4	0.75	0.45	0.54	0.75	0.93	2.70	5.88	3.47	2.27	0.77	0.70	0.69	
5	0.70	0.45	0.53	0.73	1.02	4.37	5.70	3.40	2.12	0.77	0.70	0.69	
6	0.74	0.45	0.54	0.73	1.22	5.65	5.47	3.34	2.00	0.76	0.70	0.68	
7	0.77	0.46	0.55	0.74	1.17	7.20	5.29	3.27	1.91	0.75	0.69	0.66	
8	0.80	0.48	0.64	0.75	1.08	10.68	5.12	3.11	1.81	0.76	0.70	0.65	
9	0.82	0.50	0.68	0.77	1.03	10.80	4.99	3.07	1.73	0.77	0.70	0.65	
10	0.84	0.47	0.78	0.77	1.16	10.61	4.88	3.04	1.63	0.76	0.70	0.65	
11	0.86	0.46	0.80	0.75	1.40	10.39	4.78	2.99	1.53	0.75	0.70	0.65	
12	0.87	0.46	0.79	0.72	1.49	10.15	4.80	2.96	1.36	0.74	0.70	0.65	
13	0.88	0.47	0.73	0.71	1.34	10.02	4.67	2.92	1.18	0.74	0.71	0.66	
14	0.87	0.49	0.67	0.72	1.27	9.91	4.47	2.88	0.99	0.75	0.71	0.66	
15	0.82	0.50	0.66	0.73	1.13	9.66	3.97	2.67	1.06	0.76	0.71	0.66	
16	0.79	0.53	0.65	0.74	0.97	9.50	3.75	2.54	1.17	0.76	0.71	0.65	
17	0.78	0.56	0.62	0.76	0.90	9.44	3.94	2.42	1.29	0.76	0.71	0.65	
18	0.76	0.55	0.62	0.76	0.93	9.39	4.11	2.28	1.40	0.76	0.72	0.65	
19	0.76	0.55	0.62	0.78	0.98	8.89	4.20	2.16	1.52	0.77	0.72	0.64	
20	0.75	0.54	0.61	0.81	1.13	8.65	4.07	2.01	1.67	0.78	0.72	0.64	
21	0.75	0.56	0.60	0.82	1.24	8.48	3.99	1.86	1.83	0.76	0.72	0.64	
22	0.74	0.57	0.60	0.83	1.34	8.28	3.93	1.73	1.64	0.75	0.71	0.64	
23	0.72	0.58	0.62	0.84	1.45	8.07	3.93	2.03	1.37	0.76	0.71	0.63	
24	0.67	0.60	0.64	0.83	1.53	7.86	3.97	2.72	1.24	0.75	0.70	0.63	
25	0.65	0.55	0.65	0.81	1.63	7.79	3.92	2.89	1.04	0.74	0.70	0.63	
26	0.64	0.53	0.67	1.05	1.63	7.61	3.86	2.79	0.90	0.74	0.70	0.63	
27	0.63	0.52	0.68	1.35	1.58	7.34	3.82	2.72	0.76	0.73	0.70	0.63	
28	0.61	0.53	0.69	1.41	1.53	6.34	3.77	2.68	0.78	0.72	0.70	0.63	
29	0.59	0.52	0.69	1.30	1.50	6.83	3.75	2.65	0.78	0.71		0.63	
30	0.58	0.51	0.71	1.07	1.44	6.43	3.73	2.65	0.77	0.70		0.63	
31		0.49		0.97	1.42		3.72		0.78	0.70		0.63	
MEAN	0.75	0.51	0.64	0.85	1.23	7.61	4.54	2.80	1.48	0.75	0.71	0.65	
MAX	0.88	0.60	0.80	1.41	1.63	10.80	6.24	3.66	2.61	0.78	0.72	0.70	10.80
MIN	0.58	0.45	0.53	0.71	0.86	1.48	3.72	1.73	0.76	0.70	0.69	0.63	0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.81 M (A.D), AT 12.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.49 M (A.D)
LEFT BANK ELEVATION 11.37 M (A.D)
RIGHT BANK ELEVATION 11.28 M (A.D), DRAINAGE AREA 1794 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.92	0.35	0.35	0.83	1.60	4.40	58.10	24.60	14.10	0.95	0.75	0.75	
2	0.98	0.23	0.32	0.83	1.30	6.08	56.60	24.00	12.90	0.95	0.75	0.75	
3	0.98	0.15	0.32	0.85	1.35	8.63	54.95	23.50	11.30	0.95	0.77	0.72	
4	0.88	0.12	0.35	0.88	1.65	15.00	52.96	22.70	10.70	0.92	0.75	0.72	
5	0.75	0.12	0.32	0.83	2.10	33.59	50.65	22.00	9.20	0.92	0.75	0.72	
6	0.85	0.12	0.35	0.83	3.10	50.01	47.70	21.40	8.25	0.90	0.75	0.70	
7	0.92	0.15	0.38	0.85	2.85	73.50	45.39	20.70	7.58	0.88	0.72	0.65	
8	1.00	0.20	0.60	0.88	2.40	822.00	43.21	19.10	6.83	0.90	0.75	0.62	
9	1.10	0.25	0.70	0.92	2.15	950.00	41.55	18.70	6.23	0.92	0.75	0.62	
10	1.20	0.17	0.95	0.92	2.80	755.50	40.13	18.40	5.48	0.90	0.75	0.62	
11	1.30	0.15	1.00	0.88	4.00	583.90	38.85	17.90	4.73	0.88	0.75	0.62	
12	1.35	0.15	0.98	0.80	4.45	452.00	39.11	17.60	3.80	0.85	0.75	0.62	
13	1.40	0.17	0.83	0.77	3.70	395.20	37.44	17.20	2.90	0.85	0.77	0.65	
14	1.35	0.23	0.68	0.80	3.35	357.30	34.88	16.80	1.95	0.88	0.77	0.65	
15	1.10	0.25	0.65	0.83	2.65	290.40	28.46	14.70	2.30	0.90	0.77	0.65	
16	0.98	0.32	0.62	0.85	1.85	254.00	25.64	13.40	2.85	0.90	0.77	0.62	
17	0.95	0.40	0.55	0.90	1.50	242.60	28.08	12.20	3.45	0.90	0.77	0.62	
18	0.90	0.38	0.55	0.90	1.65	233.20	30.26	10.80	4.00	0.90	0.80	0.62	
19	0.90	0.38	0.55	0.95	1.90	161.00	31.41	9.60	4.65	0.92	0.80	0.60	
20	0.88	0.35	0.53	1.05	2.65	139.25	29.75	8.33	5.78	0.95	0.80	0.60	
21	0.88	0.40	0.50	1.10	3.20	125.00	28.72	7.20	6.98	0.90	0.80	0.60	
22	0.85	0.42	0.50	1.15	3.70	111.93	27.95	6.23	5.55	0.88	0.77	0.60	
23	0.80	0.45	0.55	1.20	4.25	100.73	27.95	8.48	3.85	0.90	0.77	0.58	
24	0.68	0.50	0.60	1.15	4.73	91.10	28.46	15.20	3.20	0.88	0.75	0.58	
25	0.62	0.38	0.62	1.05	5.48	88.70	27.82	16.90	2.20	0.85	0.75	0.58	
26	0.60	0.32	0.68	2.25	5.48	83.75	27.05	15.90	1.50	0.85	0.75	0.58	
27	0.58	0.30	0.70	3.75	5.10	77.00	26.54	15.20	0.90	0.83	0.75	0.58	
28	0.53	0.32	0.72	4.05	4.73	59.60	25.90	14.80	0.95	0.80	0.75	0.58	
29	0.47	0.30	0.72	3.50	4.50	66.95	25.64	14.50	0.95	0.77		0.58	
30	0.45	0.27	0.77	2.35	4.20	60.95	25.38	14.50	0.92	0.75		0.58	
31		0.23		1.85	4.10		25.26		0.95	0.75		0.58	
TOTAL	27.15	8.53	17.94	40.75	98.47	6693.27	1111.79	482.54	156.93	27.28	21.33	19.54	8705.52 CMSDAY
MEAN	0.90	0.28	0.60	1.31	3.18	223.11	35.86	16.08	5.06	0.88	0.76	0.63	23.85 CMS
MAX	1.40	0.50	1.00	4.05	5.48	950.00	58.10	24.60	14.10	0.95	0.80	0.75	950.00 CMS
MIN	0.45	0.12	0.32	0.77	1.30	4.40	25.26	6.23	0.90	0.75	0.72	0.58	0.12 CMS
RUNOFF	2.346	0.737	1.550	3.521	8.508	578.299	96.059	41.691	13.559	2.357	1.843	1.688	752.157 MCM

MOMENTARY PEAK 962.20 CMS, AT 10.81 M (A.D), AT 12.00 HOURS, ON SEP 9, 1982
RUNOFF YIELD 13.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 536.34 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

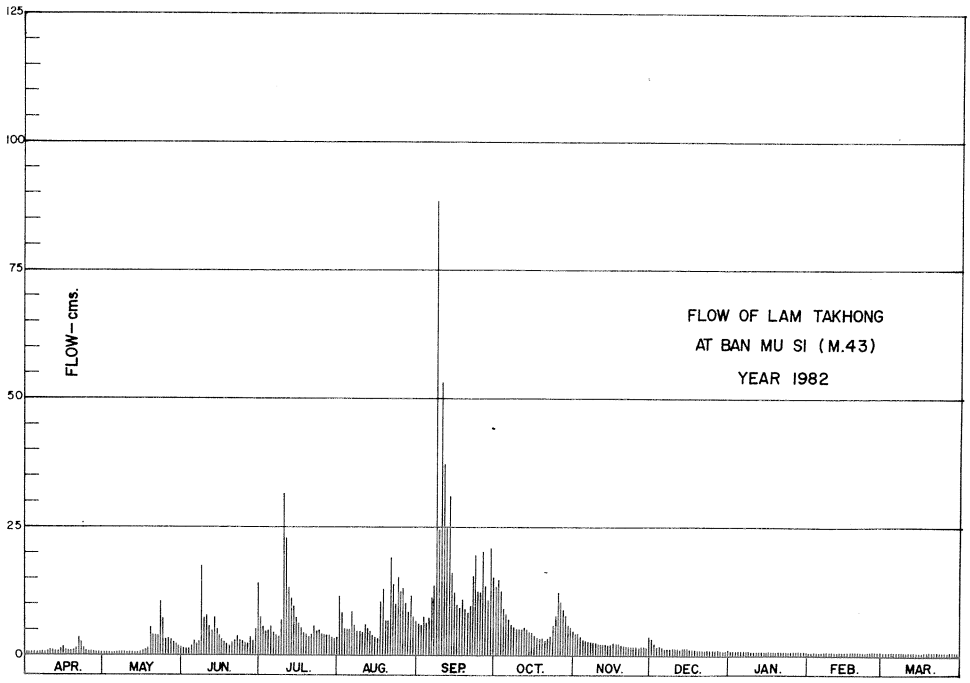
LAM TAKHONG AT BAN MU SI, NAKHON RATCHASIMA (M.43)

LOCATION	LAT. 14°-31'-40" N., LONG. 101°-24'-09" E., ON LEFT BANK INFRONT OF HIGHWAY MAINTENANCE OFFICE, BAN MU SI, AMPHOE PAK CHONG, NAKHON RATCHASIMA.
DRAINAGE AREA	235 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+5.592 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965, 1967-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1965, 1967-1973
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 178 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.49	0.66	1.13	1.34	1.06	1.37	0.95	0.85	0.58	0.52	0.43	
2	0.46	0.49	0.64	0.97	1.14	1.02	1.48	0.92	0.73	0.57	0.52	0.43	
3	0.46	0.48	0.59	0.96	1.03	1.14	1.43	0.90	0.64	0.55	0.49	0.43	
4	0.45	0.46	0.73	0.97	0.97	1.04	1.24	0.87	0.71	0.55	0.49	0.43	
5	0.43	0.46	0.83	1.04	1.03	1.07	1.17	0.86	0.66	0.55	0.49	0.44	
6	0.42	0.49	0.76	0.95	1.21	1.32	1.12	0.83	0.64	0.55	0.48	0.44	
7	0.43	0.50	0.74	0.89	1.03	1.41	1.08	0.82	0.65	0.55	0.48	0.43	
8	0.43	0.52	1.59	0.84	0.96	3.16	1.03	0.82	0.65	0.54	0.47	0.43	
9	0.55	0.51	1.08	0.96	0.96	1.79	1.02	0.81	0.65	0.52	0.46	0.41	
10	0.61	0.49	1.15	1.99	0.96	2.47	1.00	0.79	0.66	0.52	0.46	0.39	
11	0.56	0.50	0.97	1.70	1.06	2.12	1.00	0.78	0.65	0.52	0.46	0.38	
12	0.52	0.48	0.95	1.32	1.02	1.78	1.03	0.78	0.65	0.53	0.46	0.39	
13	0.54	0.46	1.14	1.32	0.97	1.98	0.99	0.78	0.65	0.54	0.46	0.37	
14	0.64	0.49	1.05	1.25	0.90	1.54	0.98	0.76	0.65	0.54	0.45	0.35	
15	0.71	0.47	0.92	1.11	0.87	1.36	0.94	0.76	0.64	0.54	0.45	0.34	
16	0.58	0.56	0.84	1.09	0.87	1.25	0.91	0.79	0.63	0.54	0.46	0.35	
17	0.58	0.60	0.79	1.02	1.31	1.21	0.88	0.78	0.63	0.55	0.45	0.35	
18	0.58	0.58	0.75	0.97	1.41	1.32	0.87	0.78	0.62	0.55	0.46	0.35	
19	0.58	1.02	0.73	0.92	1.09	1.20	0.88	0.75	0.60	0.55	0.45	0.34	
20	0.62	0.79	0.82	0.89	1.10	1.19	0.84	0.74	0.60	0.55	0.45	0.33	
21	0.90	0.92	0.83	0.91	1.64	1.16	0.87	0.73	0.60	0.54	0.43	0.32	
22	0.80	0.91	0.91	1.05	1.45	1.47	0.89	0.71	0.60	0.54	0.42	0.31	
23	0.63	1.29	0.83	0.98	1.25	1.65	1.03	0.71	0.58	0.53	0.42	0.31	
24	0.59	1.10	0.83	0.98	1.50	1.37	1.01	0.70	0.58	0.53	0.42	0.31	
25	0.56	0.81	0.78	0.91	1.38	1.38	1.37	0.68	0.60	0.53	0.43	0.29	
26	0.54	0.88	0.79	0.93	1.40	1.67	1.34	0.68	0.60	0.52	0.43	0.27	
27	0.52	0.85	0.90	0.90	1.22	1.47	1.25	0.68	0.58	0.51	0.43	0.27	
28	0.51	0.82	0.81	0.92	1.17	1.24	1.16	0.68	0.58	0.50	0.43	0.25	
29	0.51	0.79	0.96	0.88	1.35	1.69	1.06	0.67	0.58	0.51		0.25	
30	0.49	0.74	1.45	0.85	1.17	1.54	1.02	0.89	0.57	0.51		0.24	
31		0.70		0.86	1.08		0.98		0.57	0.51		0.24	
MEAN	0.56	0.67	0.89	1.05	1.16	1.50	1.07	0.78	0.63	0.54	0.46	0.35	
MAX	0.90	1.29	1.59	1.99	1.64	3.16	1.48	0.95	0.85	0.58	0.52	0.44	3.16
MIN	0.42	0.46	0.59	0.84	0.87	1.02	0.84	0.67	0.57	0.50	0.42	0.24	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.44 M (A.D), AT 18.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.28 M (A.D)
LEFT BANK ELEVATION 5.32 M (A.D)
RIGHT BANK ELEVATION 7.96 M (A.D), DRAINAGE AREA 235 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.47	1.30	7.24	11.38	6.02	12.04	4.30	2.95	0.90	0.60	0.29	
2	0.38	0.47	1.20	4.58	7.42	5.34	14.70	3.88	1.74	0.85	0.60	0.29	
3	0.38	0.44	0.95	4.44	5.51	7.42	13.45	3.60	1.20	0.75	0.47	0.29	
4	0.35	0.38	1.74	4.58	4.58	5.68	9.30	3.21	1.58	0.75	0.47	0.29	
5	0.29	0.38	2.69	5.68	5.51	6.19	7.96	3.08	1.30	0.75	0.47	0.32	
6	0.26	0.47	1.98	4.30	8.70	10.94	7.06	2.69	1.20	0.75	0.44	0.32	
7	0.29	0.50	1.82	3.47	5.51	12.95	6.36	2.56	1.25	0.75	0.44	0.29	
8	0.29	0.60	17.54	2.82	4.44	88.80	5.51	2.56	1.25	0.70	0.41	0.29	
9	0.75	0.55	6.36	4.44	4.44	24.06	5.34	2.43	1.25	0.60	0.38	0.23	
10	1.05	0.47	7.60	31.42	4.44	52.76	5.00	2.22	1.30	0.60	0.38	0.19	
11	0.80	0.50	4.58	21.00	6.02	36.68	5.00	2.14	1.25	0.60	0.38	0.18	
12	0.60	0.44	4.30	10.94	5.34	23.72	5.51	2.14	1.25	0.65	0.38	0.19	
13	0.70	0.38	7.42	10.94	4.58	31.04	4.86	2.14	1.25	0.70	0.38	0.17	
14	1.20	0.47	5.85	9.50	3.60	16.24	4.72	1.98	1.25	0.70	0.35	0.15	
15	1.58	0.41	3.88	6.88	3.21	11.82	4.16	1.98	1.20	0.70	0.35	0.14	
16	0.90	0.80	2.82	6.53	3.21	9.50	3.74	2.22	1.15	0.70	0.38	0.15	
17	0.90	1.00	2.22	5.34	10.72	8.70	3.34	2.14	1.15	0.75	0.35	0.15	
18	0.90	0.90	1.90	4.58	12.95	10.94	3.21	2.14	1.10	0.75	0.38	0.15	
19	0.90	5.34	1.74	3.88	6.53	8.50	3.34	1.90	1.00	0.75	0.35	0.14	
20	1.10	2.22	2.56	3.47	6.70	8.32	2.82	1.82	1.00	0.75	0.35	0.13	
21	3.60	3.88	2.69	3.74	19.08	7.78	3.21	1.74	1.00	0.70	0.29	0.12	
22	2.30	3.74	3.74	5.85	13.95	14.45	3.47	1.58	1.00	0.70	0.26	0.11	
23	1.15	10.30	2.69	4.72	9.50	19.40	5.51	1.58	0.90	0.65	0.26	0.11	
24	0.95	6.70	2.69	4.72	15.20	12.04	5.17	1.50	0.90	0.65	0.26	0.11	
25	0.80	2.43	2.14	3.74	12.26	12.26	12.04	1.40	1.00	0.65	0.29	0.09	
26	0.70	3.34	2.22	4.02	12.70	20.04	11.38	1.40	1.00	0.60	0.29	0.07	
27	0.60	2.95	3.60	3.60	8.90	14.45	9.50	1.40	0.90	0.55	0.29	0.07	
28	0.55	2.56	2.43	3.88	7.96	9.30	7.78	1.40	0.90	0.50	0.29	0.05	
29	0.55	2.22	4.44	3.34	11.60	20.68	6.02	1.35	0.90	0.55		0.05	
30	0.47	1.82	13.95	2.95	7.96	16.24	5.34	3.47	0.85	0.55		0.04	
31		1.50		3.08	6.36		4.72		0.85	0.55		0.04	
TOTAL	25.67	58.63	121.04	199.67	250.26	532.26	201.56	67.95	36.82	21.10	10.54	5.21	1530.71 CMSDAY
MEAN	0.86	1.89	4.03	6.44	8.07	17.74	6.50	2.27	1.19	0.68	0.38	0.17	4.19 CMS
MAX	3.60	10.30	17.54	31.42	19.08	88.80	14.70	4.30	2.95	0.90	0.60	0.32	88.80 CMS
MIN	0.26	0.38	0.95	2.82	3.21	5.34	2.82	1.35	0.85	0.50	0.26	0.04	0.04 CMS
RUNOFF	2.218	5.066	10.458	17.251	21.622	45.987	17.415	5.871	3.181	1.823	0.911	0.450	132.253 MCM

MOMENTARY PEAK 109.48 CMS, AT 3.44 M (A.D), AT 18.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 17.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 465.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

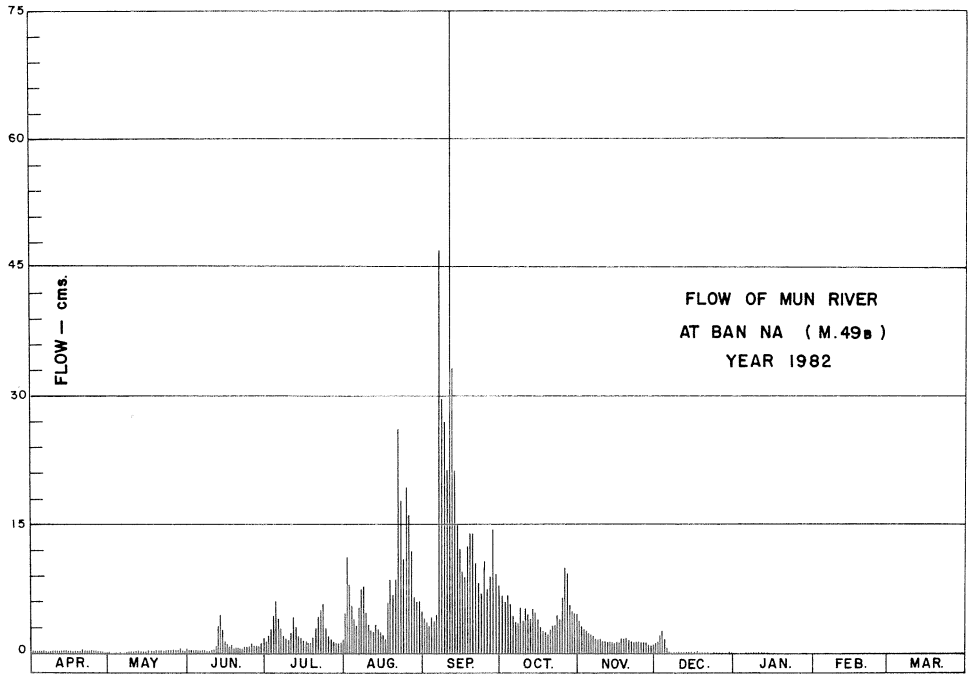
MUN RIVER AT BAN NA, NAKHON RATCHASIMA (M.49B)

LOCATION	LAT. 14°-29'-41" N., LONG. 102°-09'-37" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS DOWNSTREAM FROM PROPOSED DAMSITE, AMPHOE KHON BURI, NAKHON RATCHASIMA.
DRAINAGE AREA	434 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+203.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE HEADWORK OF DAMSITE, ABOUT 150 METERS FROM THE GODOWN.
ELEVATION	+219.460 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIR STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +207.84 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. EFFECTED BY THE WEIR ON DEC. 6, 1982. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	204.05	203.79	204.18	204.87	205.68	205.77	206.27	205.60	204.82	204.87	205.88	205.24	
2	204.16	203.76	204.11	205.13	206.70	205.63	206.15	205.46	205.19	204.85	205.92	205.24	
3	204.15	203.72	204.05	205.29	206.26	205.51	206.02	205.36	205.31	204.85	205.90	205.23	
4	204.14	203.72	204.02	205.53	205.83	205.73	206.14	205.27	205.02	204.86	205.90	205.22	
5	204.13	203.80	203.99	206.07	205.57	205.62	205.91	205.18	204.94	204.78	205.90	205.22	
6	204.11	203.93	204.01	205.71	205.48	205.90	205.75	205.14	204.89	204.78	205.88	205.21	
7	204.10	203.95	203.98	205.47	206.19	208.06	205.64	205.06	204.90	204.78	205.82	205.21	
8	204.08	203.97	203.98	205.19	206.24	207.75	205.56	205.01	204.92	204.78	205.87	205.20	
9	204.07	203.98	203.99	204.95	205.83	207.67	205.91	204.96	204.80	204.78	205.70	205.19	
10	204.06	203.97	204.02	204.81	205.59	207.44	205.61	204.90	204.80	204.49	205.67	205.17	
11	204.05	203.95	204.01	205.17	205.41	208.29	205.92	204.86	204.77	205.01	205.65	205.16	
12	204.05	203.92	204.52	205.76	205.35	207.82	205.76	204.89	204.73	205.19	205.63	205.14	
13	204.04	203.91	205.75	205.37	205.50	207.35	205.65	204.87	204.69	205.22	205.58	205.11	
14	204.03	203.90	205.51	205.12	205.41	207.03	205.90	204.76	204.73	205.28	205.50	205.10	
15	204.02	203.90	205.06	204.94	205.27	206.82	205.74	204.75	204.69	205.43	205.45	205.09	
16	204.10	204.04	204.83	204.93	205.14	206.49	205.51	204.82	204.67	205.40	205.41	205.08	
17	204.10	203.97	204.59	204.87	205.05	206.40	205.37	204.91	204.73	205.33	205.41	205.08	
18	204.09	204.00	204.41	204.78	206.23	206.80	205.28	205.05	204.73	205.34	205.40	205.08	
19	204.08	204.03	204.28	204.83	206.36	206.95	205.21	205.00	204.72	205.49	205.39	205.07	
20	204.07	203.92	204.23	205.20	206.08	206.94	205.19	204.96	204.77	205.57	205.38	205.06	
21	204.20	203.94	204.16	205.62	206.42	206.72	205.46	204.85	204.79	205.67	205.37	205.05	
22	204.15	203.93	204.12	205.83	207.65	206.37	205.43	204.82	204.77	205.70	205.37	205.04	
23	204.10	204.03	204.32	205.98	207.32	206.16	205.72	204.80	204.78	205.59	205.38	205.02	
24	204.06	204.03	204.32	205.61	206.67	206.34	205.63	204.79	204.81	205.58	205.37	204.99	
25	204.04	204.00	204.36	205.31	207.33	206.64	205.71	204.81	204.82	205.65	205.34	204.94	
26	203.98	204.01	204.61	205.05	207.08	206.22	206.53	204.80	204.80	205.71	205.30	204.90	
27	203.94	204.00	204.55	204.91	206.46	206.36	206.48	204.76	204.80	205.73	205.26	204.88	
28	203.90	204.01	204.43	204.81	206.15	206.96	205.99	204.70	204.81	205.82	205.24	204.88	
29	203.89	204.35	204.82	204.78	206.03	206.63	205.84	204.69	204.80	205.89		204.87	
30	203.87	204.18	204.98	204.78	206.07	206.28	205.74	204.62	204.80	205.87		204.87	
31		204.24		204.74	205.89		205.77		204.87	205.87		204.86	
MEAN	204.06	203.96	204.41	205.21	206.07	206.69	205.77	204.95	204.83	205.30	205.57	205.08	
MAX	204.20	204.35	205.75	206.07	207.65	208.29	206.53	205.60	205.31	205.89	205.92	205.24	208.29
MIN	203.87	203.72	203.98	204.74	205.05	205.51	205.19	204.62	204.67	204.49	205.24	204.86	203.72

ANNUAL MAX MOMENTARY GAGE HEIGHT 208.35 M (MSL), AT 11.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 203.50 M (MSL), RIVER BED 203.47 M (MSL)
LEFT BANK ELEVATION 207.84 M (MSL)
RIGHT BANK ELEVATION 207.95 M (MSL), DRAINAGE AREA 434 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.09	0.48	1.34	4.00	4.45	7.76	3.60	1.24	0.00	0.00	0.00	
2	0.46	0.06	0.41	1.99	11.20	3.75	6.80	3.04	2.17	0.00	0.00	0.00	
3	0.45	0.02	0.35	2.47	7.68	3.24	5.92	2.68	2.53	0.00	0.00	0.00	
4	0.44	0.02	0.32	3.32	4.78	4.25	6.72	2.41	1.66	0.00	0.00	0.00	
5	0.43	0.10	0.29	6.22	3.48	3.70	5.26	2.14	1.48	0.00	0.00	0.00	
6	0.41	0.23	0.31	4.15	3.12	5.20	4.35	2.02	0.00	0.00	0.00	0.00	
7	0.40	0.25	0.28	3.08	7.12	46.92	3.80	1.78	0.00	0.00	0.00	0.00	
8	0.38	0.27	0.28	2.17	7.52	29.50	3.44	1.63	0.00	0.00	0.00	0.00	
9	0.37	0.28	0.29	1.50	4.78	26.76	5.26	1.52	0.00	0.00	0.00	0.00	
10	0.36	0.27	0.32	1.22	3.56	21.40	3.65	1.40	0.00	0.00	0.00	0.00	
11	0.35	0.25	0.31	2.11	2.84	79.18	5.32	1.32	0.00	0.00	0.00	0.00	
12	0.35	0.22	0.82	4.40	2.65	32.32	4.40	1.38	0.00	0.00	0.00	0.00	
13	0.34	0.21	4.35	2.71	3.20	19.70	3.85	1.34	0.00	0.00	0.00	0.00	
14	0.33	0.20	3.24	1.96	2.84	14.99	5.20	1.12	0.00	0.00	0.00	0.00	
15	0.32	0.20	1.78	1.48	2.41	12.44	4.30	1.10	0.00	0.00	0.00	0.00	
16	0.40	0.34	1.26	1.46	2.02	9.52	3.24	1.24	0.00	0.00	0.00	0.00	
17	0.40	0.27	0.89	1.34	1.75	8.80	2.71	1.42	0.00	0.00	0.00	0.00	
18	0.39	0.30	0.71	1.16	7.44	12.20	2.44	1.75	0.00	0.00	0.00	0.00	
19	0.38	0.33	0.58	1.26	8.48	14.00	2.23	1.60	0.00	0.00	0.00	0.00	
20	0.37	0.22	0.53	2.20	6.28	13.88	2.17	1.52	0.00	0.00	0.00	0.00	
21	0.50	0.24	0.46	3.70	8.96	11.40	3.04	1.30	0.00	0.00	0.00	0.00	
22	0.45	0.23	0.42	4.78	26.20	8.56	2.92	1.24	0.00	0.00	0.00	0.00	
23	0.40	0.33	0.62	5.68	19.16	6.88	4.20	1.20	0.00	0.00	0.00	0.00	
24	0.36	0.33	0.62	3.65	10.96	8.32	3.75	1.18	0.00	0.00	0.00	0.00	
25	0.34	0.30	0.66	2.53	19.34	10.72	4.15	1.22	0.00	0.00	0.00	0.00	
26	0.28	0.31	0.91	1.75	15.64	7.36	9.84	1.20	0.00	0.00	0.00	0.00	
27	0.24	0.30	0.85	1.42	9.28	8.48	9.44	1.12	0.00	0.00	0.00	0.00	
28	0.20	0.31	0.73	1.22	6.80	14.12	5.74	1.00	0.00	0.00	0.00	0.00	
29	0.19	0.65	1.24	1.16	5.98	10.64	4.84	0.99	0.00	0.00		0.00	
30	0.17	0.48	1.56	1.16	6.22	7.84	4.30	0.92	0.00	0.00		0.00	
31		0.54		1.08	5.14		4.45		0.00	0.00		0.00	
TOTAL	10.81	8.15	25.87	75.67	230.83	460.52	145.49	47.38	9.08	0.00	0.00	0.00	1013.80 CMSDAY
MEAN	0.36	0.26	0.86	2.44	7.45	15.35	4.69	1.58	0.29	0.00	0.00	0.00	2.78 CMS
MAX	0.50	0.65	4.35	6.22	26.20	79.18	9.84	3.60	2.53	0.00	0.00	0.00	79.18 CMS
MIN	0.17	0.02	0.28	1.08	1.75	3.24	2.17	0.92	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.934	0.704	2.235	6.538	19.944	39.789	12.570	4.094	0.785	0.000	0.000	0.000	87.592 MCM

MOMENTARY PEAK 102.50 CMS, AT 208.35 M (MSL), AT 11.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 6.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 236.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

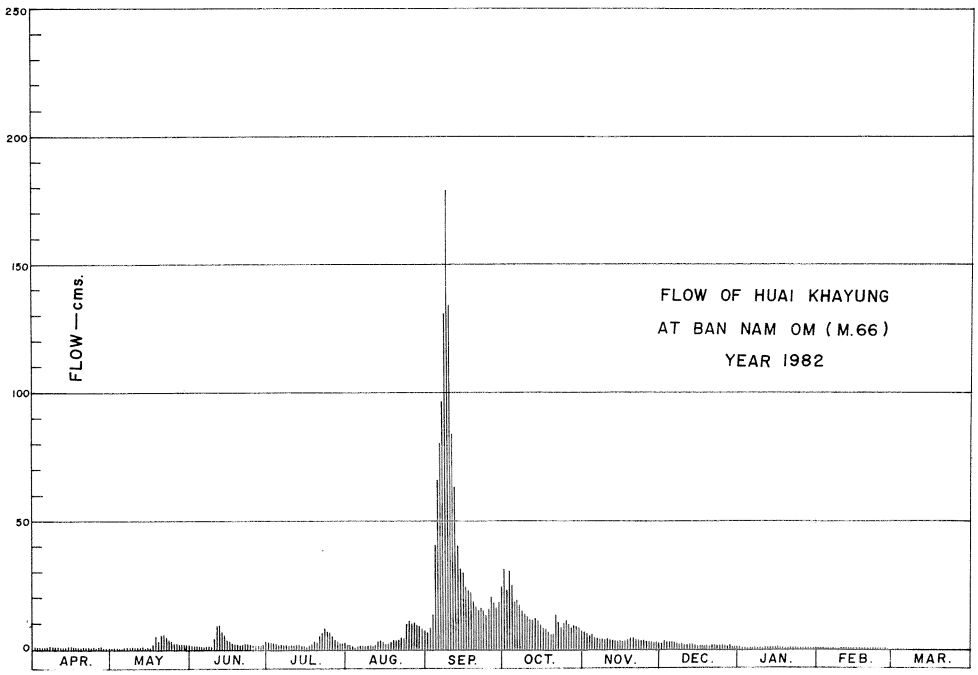
HUAI KHAYUNG AT BAN NAM OM, SI SA KET (M.66)

LOCATION	LAT. 14°-38'-23" N., LONG. 104°-39'-45" E., ON RIGHT BANK ABOUT 50 METERS UPSTREAM FROM THE BRIDGE OF KANTHARALAK-DET UDOM ROAD, BAN NAM OM, AMPHOE KANTHARALAK, SI SA KET.
DRAINAGE AREA	586 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE AUTOMATIC GAGE BUILDING.
ELEVATION	+6.581 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1968, 1972 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1968, 1972 - 1981.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 160 DISCHARGE MEASUREMENTS MADE DURING 1977 - 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.15	0.27	0.54	0.27	0.91	2.32	0.91	0.48	0.26	0.21	0.10	
2	0.18	0.14	0.24	0.50	0.24	1.01	1.91	0.83	0.54	0.26	0.19	0.09	
3	0.17	0.17	0.20	0.41	0.23	1.30	2.31	0.77	0.58	0.25	0.21	0.09	
4	0.15	0.15	0.20	0.39	0.23	2.63	1.94	0.73	0.56	0.25	0.20	0.09	
5	0.14	0.14	0.20	0.32	0.25	3.97	1.65	0.70	0.51	0.25	0.20	0.08	
6	0.14	0.13	0.26	0.29	0.30	4.19	1.71	0.68	0.49	0.23	0.20	0.08	
7	0.16	0.14	0.28	0.23	0.37	5.46	1.61	0.69	0.46	0.23	0.19	0.08	
8	0.17	0.14	0.30	0.27	0.37	6.63	1.44	0.69	0.44	0.23	0.19	0.08	
9	0.21	0.14	0.29	0.24	0.35	5.69	1.35	0.68	0.44	0.23	0.18	0.08	
10	0.32	0.14	0.75	0.23	0.34	4.59	1.29	0.70	0.43	0.22	0.17	0.08	
11	0.33	0.13	1.10	0.21	0.36	3.94	1.25	0.69	0.42	0.22	0.16	0.07	
12	0.30	0.15	1.08	0.35	0.45	3.07	1.22	0.63	0.41	0.21	0.16	0.08	
13	0.24	0.17	0.85	0.36	0.63	2.47	1.22	0.58	0.37	0.20	0.16	0.07	
14	0.23	0.21	0.68	0.32	0.62	2.28	1.19	0.56	0.35	0.20	0.15	0.07	
15	0.23	0.23	0.58	0.28	0.55	2.22	1.06	0.56	0.34	0.19	0.15	0.07	
16	0.25	0.22	0.51	0.26	0.50	1.96	0.99	0.62	0.33	0.19	0.14	0.07	
17	0.24	0.30	0.47	0.26	0.50	1.87	0.93	0.59	0.33	0.19	0.14	0.07	
18	0.28	0.80	0.43	0.33	0.59	1.81	0.88	0.68	0.33	0.18	0.12	0.07	
19	0.30	0.54	0.44	0.48	0.65	1.69	0.83	0.72	0.33	0.17	0.11	0.07	
20	0.30	0.79	0.41	0.47	0.66	1.56	0.82	0.68	0.32	0.19	0.10	0.07	
21	0.29	0.82	0.38	0.83	0.64	1.47	1.34	0.71	0.32	0.19	0.10	0.05	
22	0.28	0.78	0.38	0.90	0.67	1.59	1.08	0.66	0.32	0.20	0.09	0.06	
23	0.26	0.62	0.38	0.94	0.69	1.47	1.04	0.63	0.32	0.21	0.11	0.06	
24	0.24	0.52	0.34	0.90	1.19	1.37	1.11	0.62	0.31	0.20	0.12	0.05	
25	0.22	0.45	0.26	0.79	1.25	1.54	1.15	0.61	0.30	0.19	0.12	0.06	
26	0.21	0.43	0.25	0.71	1.10	1.79	1.14	0.59	0.29	0.17	0.10	0.05	
27	0.21	0.40	0.26	0.63	1.15	1.66	1.04	0.57	0.29	0.19	0.10	0.05	
28	0.21	0.36	0.30	0.55	1.07	1.54	1.06	0.54	0.28	0.20	0.09	0.04	
29	0.18	0.34	0.46	0.48	1.00	1.67	1.01	0.51	0.28	0.18		0.05	
30	0.15	0.31	0.54	0.42	0.97	2.09	0.98	0.48	0.28	0.20		0.04	
31		0.35		0.33	0.92		0.93		0.27	0.19		0.03	
MEAN	0.23	0.33	0.44	0.46	0.62	2.51	1.28	0.65	0.38	0.21	0.15	0.07	
MAX	0.33	0.82	1.10	0.94	1.25	6.63	2.32	0.91	0.58	0.26	0.21	0.10	6.63
MIN	0.14	0.13	0.20	0.21	0.23	0.91	0.82	0.48	0.27	0.17	0.09	0.03	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.72 M (A.D), AT 0.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.24 M (A.D)
LEFT BANK ELEVATION 9.63 M (A.D)
RIGHT BANK ELEVATION 9.45 M (A.D), DRAINAGE AREA 586 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.25	0.85	2.55	0.85	6.65	31.50	6.65	2.10	0.80	0.55	0.00	
2	0.40	0.20	0.70	2.25	0.70	8.15	23.20	5.45	2.55	0.80	0.45	0.00	
3	0.35	0.35	0.50	1.57	0.65	12.50	31.25	4.70	2.85	0.75	0.55	0.00	
4	0.25	0.25	0.50	1.45	0.65	39.25	23.80	4.30	2.70	0.75	0.50	0.00	
5	0.20	0.20	0.50	1.10	0.75	77.10	18.00	4.00	2.32	0.75	0.50	0.00	
6	0.20	0.15	0.80	0.95	1.00	83.70	19.20	3.80	2.18	0.65	0.50	0.00	
7	0.30	0.20	0.90	0.65	1.35	128.90	17.20	3.90	1.95	0.65	0.45	0.00	
8	0.35	0.20	1.00	0.85	1.35	176.35	14.60	3.90	1.80	0.65	0.45	0.00	
9	0.55	0.20	0.95	0.70	1.25	138.10	13.25	3.80	1.80	0.65	0.40	0.00	
10	1.10	0.20	4.50	0.65	1.20	96.65	12.35	4.00	1.73	0.60	0.35	0.00	
11	1.15	0.15	9.50	0.55	1.30	76.20	11.75	3.90	1.65	0.60	0.30	0.00	
12	1.00	0.25	9.20	1.25	1.87	50.25	11.30	3.30	1.57	0.55	0.30	0.00	
13	0.70	0.35	5.75	1.30	3.30	35.25	11.30	2.85	1.35	0.50	0.30	0.00	
14	0.65	0.55	3.80	1.10	3.20	30.60	10.85	2.70	1.25	0.50	0.25	0.00	
15	0.65	0.65	2.85	0.90	2.63	29.40	8.90	2.70	1.20	0.45	0.25	0.00	
16	0.75	0.60	2.32	0.80	2.25	24.20	7.85	3.20	1.15	0.45	0.20	0.00	
17	0.70	1.00	2.02	0.80	2.25	22.40	6.95	2.92	1.15	0.45	0.20	0.00	
18	0.90	5.00	1.73	1.15	2.92	21.20	6.20	3.80	1.15	0.40	0.10	0.00	
19	1.00	2.55	1.80	2.10	3.50	18.80	5.45	4.20	1.15	0.35	0.05	0.00	
20	1.00	4.90	1.57	2.02	3.60	16.40	5.30	3.80	1.10	0.45	0.00	0.00	
21	0.95	5.30	1.40	5.45	3.40	15.05	13.10	4.10	1.10	0.45	0.00	0.00	
22	0.90	4.80	1.40	6.50	3.70	16.85	9.20	3.60	1.10	0.50	0.00	0.00	
23	0.80	3.20	1.40	7.10	3.90	15.05	8.60	3.30	1.10	0.55	0.05	0.00	
24	0.70	2.40	1.20	6.50	10.85	13.55	9.65	3.20	1.05	0.50	0.10	0.00	
25	0.60	1.87	0.80	4.90	11.75	16.10	10.25	3.10	1.00	0.45	0.10	0.00	
26	0.55	1.73	0.75	4.10	9.50	20.80	10.10	2.92	0.95	0.35	0.00	0.00	
27	0.55	1.50	0.80	3.30	10.25	18.20	8.60	2.78	0.95	0.45	0.00	0.00	
28	0.55	1.30	1.00	2.63	9.05	16.10	8.90	2.55	0.90	0.50	0.00	0.00	
29	0.40	1.20	1.95	2.10	8.00	18.40	8.15	2.32	0.90	0.40		0.00	
30	0.25	1.05	2.55	1.65	7.55	26.80	7.70	2.10	0.90	0.50		0.00	
31		1.25		1.15	6.80		6.95		0.85	0.45		0.00	
TOTAL	18.90	43.80	64.99	70.07	121.32	1268.95	391.40	107.84	45.50	16.85	6.90	0.00	2156.52 CMSDAY
MEAN	0.63	1.41	2.17	2.26	3.91	42.30	12.63	3.59	1.47	0.54	0.25	0.00	5.91 CMS
MAX	1.15	5.30	9.50	7.10	11.75	176.35	31.50	6.65	2.85	0.80	0.55	0.00	176.35 CMS
MIN	0.20	0.15	0.50	0.55	0.65	6.65	5.30	2.10	0.85	0.35	0.00	0.00	0.00 CMS
RUNOFF	1.633	3.784	5.615	6.054	10.482	109.637	33.817	9.317	3.931	1.456	0.596	0.000	186.323 MCM

MOMENTARY PEAK 180.50 CMS, AT 6.72 M (A.D), AT 0.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 10.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 308.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

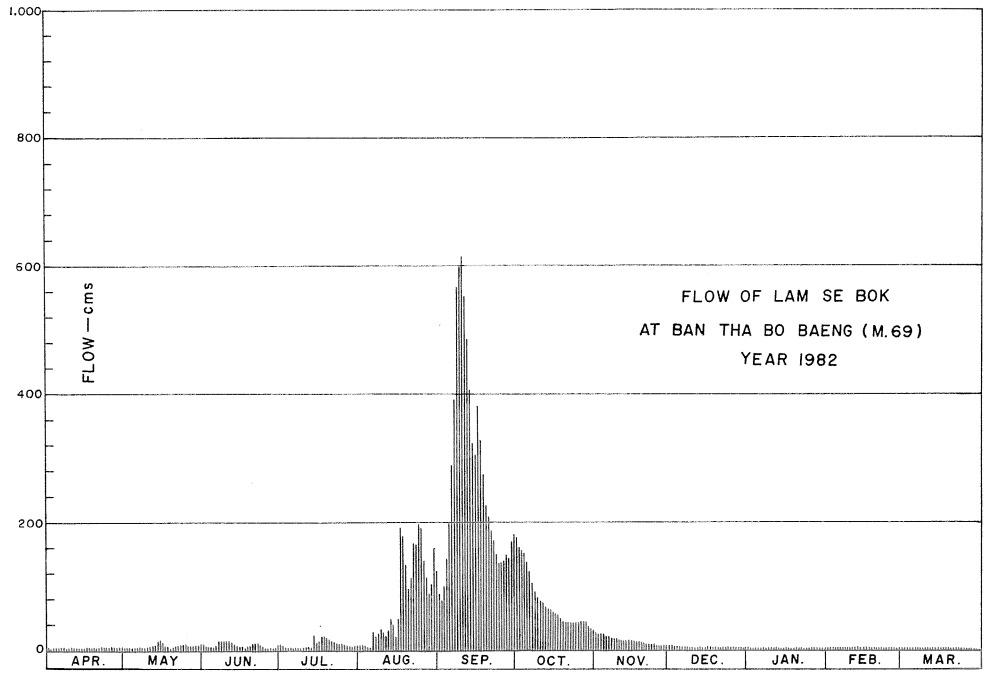
LAM SE BOK AT BAN THA BO BAENG, UBON RATCHATHANI (M.69)

LOCATION	LAT. 15°-30'-11" N., LONG. 104°-58'-01" E., ON LEFT BANK ABOUT 100 METERS UPSTREAM FROM THE BRIDGE OF UBON-TRAKAN PHUTPHON HIGHWAY, AMPHOE TRAKAN PHUTPHON, UBON RATCHATHANI.
DRAINAGE AREA	2,132 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	BESIDE THE AUTOMATIC GAGE BUILDING.
ELEVATION	+9.985 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971, 1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971, 1973 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 35 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.69	0.73	1.28	1.31	1.20	3.24	7.05	3.84	1.40	0.83	0.66	0.82	
2	0.69	0.70	1.16	1.20	1.23	2.97	6.94	3.68	1.36	0.82	0.66	0.81	
3	0.68	0.70	1.06	1.13	1.14	3.82	6.91	3.55	1.34	0.83	0.65	0.80	
4	0.68	0.75	1.08	1.08	1.07	4.13	6.86	3.45	1.33	0.84	0.65	0.78	
5	0.66	0.92	1.01	1.03	1.08	5.13	6.71	3.34	1.32	0.82	0.67	0.75	
6	0.68	1.10	1.02	1.02	1.94	6.42	6.54	3.23	1.28	0.81	0.69	0.74	
7	0.69	0.98	1.52	0.97	1.78	7.51	6.35	3.15	1.22	0.80	0.68	0.74	
8	0.70	0.89	1.47	0.95	1.85	9.09	6.16	3.06	1.19	0.79	0.67	0.76	
9	0.68	0.84	1.45	0.93	1.97	9.31	6.01	2.97	1.15	0.77	0.67	0.75	
10	0.66	0.83	1.47	0.90	1.90	9.41	5.87	2.89	1.13	0.77	0.66	0.74	
11	0.66	0.92	1.49	0.93	1.73	9.25	5.79	2.83	1.10	0.75	0.66	0.75	
12	0.69	0.98	1.39	0.91	1.98	8.91	5.68	2.78	1.05	0.74	0.66	0.74	
13	0.72	0.93	1.28	0.92	2.47	8.50	5.58	2.71	1.04	0.74	0.66	0.73	
14	0.72	1.30	1.19	1.76	2.16	8.07	5.49	2.64	1.03	0.73	0.66	0.73	
15	0.70	1.52	1.13	1.47	1.72	7.95	5.40	2.74	1.02	0.73	0.66	0.73	
16	0.71	1.39	1.10	1.48	3.15	8.38	5.29	2.68	1.00	0.73	0.66	0.73	
17	0.72	1.19	1.09	1.68	4.80	8.09	5.17	2.60	0.99	0.73	0.67	0.69	
18	0.74	1.06	1.08	1.71	4.61	7.76	5.05	2.51	0.98	0.73	0.68	0.69	
19	0.89	1.04	1.10	1.68	3.96	7.51	4.93	2.34	0.96	0.72	0.70	0.71	
20	0.91	1.00	1.30	1.53	3.32	7.32	4.85	2.20	0.95	0.71	0.71	0.71	
21	0.90	1.16	1.44	1.53	3.68	7.16	4.84	2.08	0.95	0.69	0.73	0.72	
22	0.86	1.26	1.39	1.40	4.46	7.00	4.77	1.97	0.93	0.68	0.73	0.73	
23	0.84	1.24	1.25	1.30	4.44	6.84	4.76	1.85	0.92	0.66	0.75	0.73	
24	0.83	1.21	1.15	1.28	4.87	6.69	4.80	1.76	0.91	0.67	0.77	0.73	
25	0.80	1.25	1.06	1.25	4.73	6.69	4.63	1.69	0.90	0.68	0.79	0.73	
26	0.78	1.16	1.04	1.17	3.98	6.75	4.73	1.62	0.87	0.68	0.80	0.73	
27	0.77	1.07	1.01	1.11	3.60	6.82	4.93	1.57	0.85	0.69	0.81	0.72	
28	0.76	1.00	0.98	1.04	3.15	6.79	4.90	1.52	0.85	0.68	0.81	0.70	
29	0.75	1.01	1.03	1.00	3.66	7.01	4.58	1.48	0.85	0.67		0.70	
30	0.74	1.17	1.33	1.01	4.37	7.10	4.29	1.45	0.84	0.66		0.70	
31		1.39		1.10	3.82		4.04		0.83	0.66		0.71	
MEAN	0.74	1.05	1.21	1.22	2.90	7.05	5.48	2.54	1.05	0.74	0.70	0.74	
MAX	0.91	1.52	1.52	1.76	4.87	9.41	7.05	3.84	1.40	0.84	0.81	0.82	9.41
MIN	0.66	0.70	0.98	0.90	1.07	2.97	4.04	1.45	0.83	0.66	0.65	0.69	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.43 M (A.D), AT 6.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.87 M (A.D)
LEFT BANK ELEVATION 11.22 M (A.D)
RIGHT BANK ELEVATION 11.19 M (A.D), DRAINAGE AREA 2132 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.65	7.60	8.20	6.00	90.00	173.00	23.60	3.00	0.57	0.15	0.55	
2	0.45	0.50	5.20	6.00	6.60	76.50	159.80	21.80	2.80	0.55	0.15	0.52	
3	0.40	0.50	3.60	4.60	4.80	123.20	156.20	20.50	2.70	0.57	0.12	0.50	
4	0.40	0.75	3.80	3.80	3.70	143.10	150.60	19.50	2.65	0.60	0.12	0.45	
5	0.30	2.20	3.10	3.30	3.80	213.40	135.00	18.40	2.60	0.55	0.18	0.37	
6	0.40	4.00	3.20	3.20	28.60	316.60	118.00	17.30	2.40	0.52	0.22	0.35	
7	0.45	2.80	13.60	2.70	22.20	412.90	102.50	16.50	2.10	0.50	0.20	0.35	
8	0.50	1.90	12.10	2.50	25.00	575.90	89.60	15.60	1.95	0.48	0.18	0.40	
9	0.40	1.40	11.50	2.30	29.80	600.20	80.60	14.70	1.75	0.42	0.18	0.37	
10	0.30	1.30	12.10	2.00	27.00	612.20	73.80	13.90	1.65	0.42	0.15	0.35	
11	0.30	2.20	12.70	2.30	20.20	556.00	70.60	13.30	1.50	0.37	0.15	0.37	
12	0.45	2.80	9.80	2.10	30.20	481.20	66.40	12.80	1.25	0.35	0.15	0.35	
13	0.60	2.30	7.60	2.20	51.50	401.00	63.40	12.10	1.20	0.35	0.15	0.33	
14	0.60	8.00	5.80	21.40	37.40	323.90	60.70	11.40	1.15	0.33	0.15	0.33	
15	0.50	13.60	4.60	12.10	19.80	304.00	58.00	12.40	1.10	0.33	0.15	0.33	
16	0.55	9.80	4.00	12.40	85.50	379.40	54.70	11.80	1.00	0.33	0.15	0.33	
17	0.60	5.80	3.90	18.40	190.00	327.30	51.10	11.00	0.98	0.33	0.18	0.22	
18	0.70	3.60	3.80	19.40	176.70	273.60	47.50	10.10	0.95	0.33	0.20	0.22	
19	1.90	3.40	4.00	18.40	131.60	235.50	43.90	8.40	0.90	0.30	0.25	0.27	
20	2.10	3.00	8.00	13.90	94.00	208.80	42.00	7.00	0.88	0.27	0.27	0.27	
21	2.00	5.20	11.20	13.90	114.80	186.80	41.80	6.40	0.88	0.22	0.33	0.30	
22	1.60	7.20	9.80	10.00	166.20	167.00	40.40	5.85	0.83	0.20	0.33	0.33	
23	1.40	6.80	7.00	8.00	164.80	148.40	40.20	5.25	0.80	0.15	0.37	0.33	
24	1.30	6.20	5.00	7.60	194.90	133.00	41.00	4.80	0.78	0.18	0.42	0.33	
25	1.00	7.00	3.60	7.00	185.10	133.00	37.60	4.45	0.75	0.20	0.48	0.33	
26	0.90	5.20	3.40	5.40	132.80	139.00	39.60	4.10	0.68	0.20	0.50	0.33	
27	0.85	3.70	3.10	4.20	110.00	146.20	43.90	3.85	0.63	0.22	0.52	0.30	
28	0.80	3.00	2.80	3.40	85.50	143.00	43.00	3.60	0.63	0.20	0.52	0.25	
29	0.75	3.10	3.30	3.00	113.60	168.20	36.60	3.40	0.63	0.18		0.25	
30	0.70	5.40	8.60	3.10	159.90	179.00	30.80	3.25	0.60	0.15		0.25	
31		9.80		4.00	123.20		26.60		0.57	0.15		0.27	
TOTAL	23.65	133.10	197.80	230.80	2545.20	8198.30	2218.90	337.05	42.29	10.52	6.92	10.50	13955.03 CMSDAY
MEAN	0.79	4.29	6.59	7.45	82.10	273.28	71.58	11.24	1.36	0.34	0.25	0.34	38.23 CMS
MAX	2.10	13.60	13.60	21.40	194.90	612.20	173.00	23.60	3.00	0.60	0.52	0.55	612.20 CMS
MIN	0.30	0.50	2.80	2.00	3.70	76.50	26.60	3.25	0.57	0.15	0.12	0.22	0.12 CMS
RUNOFF	2.043	11.500	17.090	19.941	219.905	708.333	191.713	29.121	3.654	0.909	0.598	0.907	1205.715 MCM

MOMENTARY PEAK 614.60 CMS, AT 9.43 M (A.D), AT 6.00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 17.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 288.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

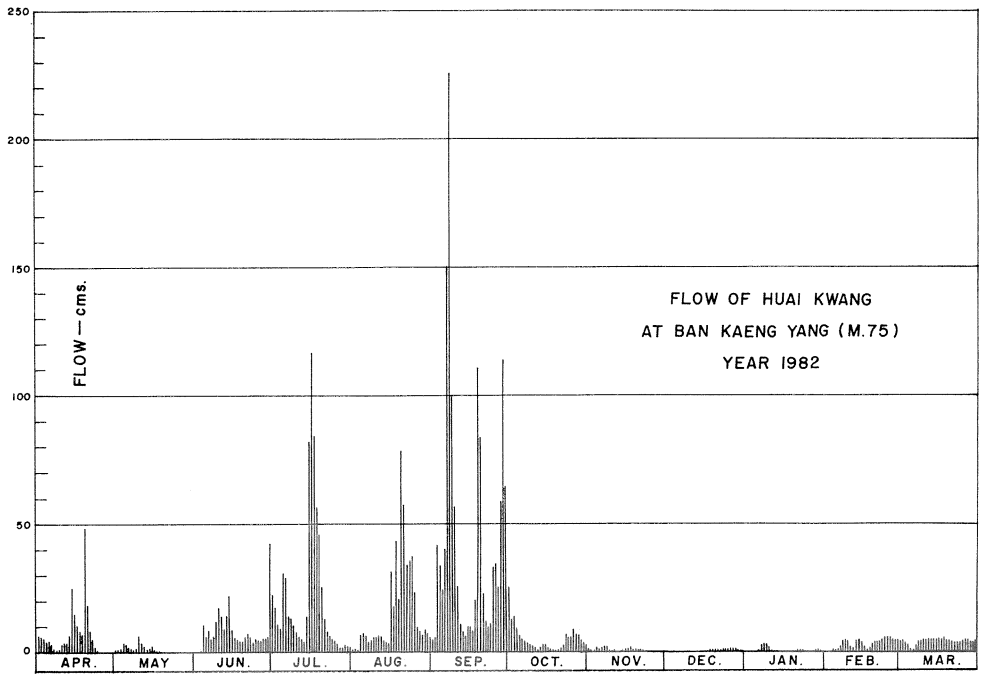
HUAI KWANG AT BAN KAENG YANG, UBON RATCHATHANI (M.75)

LOCATION	LAT. 15°-09'-53" N., LONG. 105°-17'-01" E., ON LEFT BANK AT THE BRIDGE OF PHIBUN MANGSAHAN-CHONG MEK HIGHWAY NEAR WAT PA THEPBUROM, AMPHOE PHIBUN MANGSAHAN, UBON RATCHATHANI.
DRAINAGE AREA	388 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 9 METERS FROM THE BANK AT WAT PA THEPBUROM.
ELEVATION	+6.775 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY THE LOCAL RESIDENT WEIR. DISCHARGE-MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.64	1.22	0.74	2.14	1.46	1.56	2.11	1.38	0.78	0.93	1.00	1.53	
2	1.63	1.14	0.71	2.04	1.29	1.73	1.92	1.30	0.77	0.88	1.02	1.52	
3	1.61	1.14	0.68	1.79	1.25	2.67	1.95	1.19	0.79	0.87	1.03	1.51	
4	1.53	1.56	1.85	1.73	1.70	2.41	1.80	1.42	0.78	0.83	1.14	1.34	
5	1.53	1.49	1.64	2.37	1.74	2.20	1.68	1.43	0.77	0.97	1.25	1.16	
6	1.49	1.33	1.77	2.28	1.61	2.87	1.62	1.37	0.77	1.26	1.27	1.28	
7	1.26	1.38	1.57	1.92	1.52	6.56	1.59	1.45	0.77	1.41	1.50	1.49	
8	1.08	1.30	1.71	1.91	1.60	6.70	1.54	1.42	0.76	1.46	1.57	1.54	
9	1.29	1.36	1.87	1.84	1.68	3.53	1.46	1.33	0.78	1.43	1.56	1.53	
10	1.51	1.69	2.29	1.71	1.65	2.74	1.40	1.17	0.77	1.28	1.52	1.57	
11	1.54	1.49	1.96	1.64	1.69	2.18	1.37	1.09	0.77	1.06	1.36	1.54	
12	1.52	1.40	1.78	1.56	1.63	1.85	1.35	0.98	0.77	0.92	1.31	1.59	
13	1.65	1.28	1.94	1.51	1.56	1.73	1.45	0.86	0.77	0.90	1.54	1.59	
14	2.22	1.31	2.14	1.95	1.47	1.67	1.55	0.85	0.89	0.91	1.59	1.57	
15	1.89	1.49	1.78	3.80	1.56	1.83	1.47	1.35	0.89	0.87	1.55	1.58	
16	1.81	1.26	1.62	4.43	2.39	1.86	1.33	1.31	0.93	0.85	1.36	1.54	
17	1.69	1.01	1.57	3.68	2.02	1.73	1.21	1.42	0.92	0.85	1.24	1.56	
18	1.68	0.96	1.55	2.85	2.68	2.21	1.14	1.40	0.95	0.91	1.31	1.54	
19	2.79	1.01	1.57	2.67	2.09	4.29	1.24	1.30	1.26	1.02	1.48	1.54	
20	1.99	0.82	1.66	2.18	3.56	3.10	1.24	1.22	1.37	0.92	1.58	1.53	
21	1.73	0.81	1.72	1.94	2.94	2.04	1.20	1.15	1.27	1.01	1.52	1.51	
22	1.60	0.91	1.63	1.80	2.44	1.89	1.26	1.09	1.27	1.23	1.56	1.49	
23	1.40	0.88	1.51	1.71	2.49	1.81	1.71	1.06	1.30	1.19	1.60	1.47	
24	1.15	0.78	1.59	1.63	2.53	1.89	1.64	0.97	1.32	1.18	1.63	1.53	
25	1.05	0.78	1.55	1.57	2.14	2.45	1.64	0.83	1.36	1.10	1.64	1.53	
26	0.97	0.84	1.57	1.52	1.80	2.46	1.82	0.81	1.37	1.07	1.61	1.56	
27	0.98	0.87	1.58	1.39	1.73	2.24	1.70	0.88	1.26	1.11	1.54	1.55	
28	0.91	0.75	1.61	1.31	1.67	3.17	1.69	0.81	1.29	1.22	1.57	1.52	
29	0.93	0.72	1.67	1.47	1.79	4.37	1.54	0.80	1.20	1.14		1.51	
30	1.10	0.73	2.66	1.44	1.74	2.72	1.50	0.78	1.04	1.08		1.55	
31		0.73		1.41	1.62		1.47		0.95	1.04		1.55	
MEAN	1.51	1.11	1.65	2.04	1.90	2.68	1.54	1.15	1.00	1.06	1.42	1.51	
MAX	2.79	1.69	2.66	4.43	3.56	6.70	2.11	1.45	1.37	1.46	1.64	1.59	6.70
MIN	0.91	0.72	0.68	1.31	1.25	1.56	1.14	0.78	0.76	0.83	1.00	1.16	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.68 M (A.D), AT 20.00 HOURS, ON SEP 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.26 M (A.D)
LEFT BANK ELEVATION 8.86 M (A.D)
RIGHT BANK ELEVATION 8.60 M (A.D), DRAINAGE AREA 388 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.00	0.20	0.00	22.60	2.90	4.40	21.40	1.80	0.00	0.00	0.00	3.95	
2	5.75	0.00	0.00	18.60	0.90	8.25	13.80	1.00	0.00	0.00	0.00	3.80	
3	5.25	0.00	0.00	9.75	0.50	43.80	15.00	0.00	0.00	0.00	0.00	3.65	
4	3.95	4.40	11.50	8.25	7.50	33.40	10.00	2.30	0.00	0.00	0.00	1.40	
5	3.95	3.35	6.00	31.80	8.50	25.00	7.00	2.45	0.00	0.00	0.50	0.00	
6	3.35	1.30	9.25	28.20	5.25	51.80	5.50	1.70	0.00	0.60	0.70	0.80	
7	0.60	1.80	4.55	13.80	3.80	218.50	4.85	2.75	0.00	2.15	3.50	3.35	
8	0.00	1.00	7.75	13.40	5.00	225.50	4.10	2.30	0.00	2.90	4.55	4.10	
9	0.90	1.60	12.10	11.20	7.00	78.20	2.90	1.30	0.00	2.45	4.40	3.95	
10	3.65	7.25	28.60	7.75	6.25	46.60	2.00	0.00	0.00	0.80	3.80	4.55	
11	4.10	3.35	15.40	6.00	7.25	24.20	1.70	0.00	0.00	0.00	1.60	4.10	
12	3.80	2.00	9.50	4.40	5.75	11.50	1.50	0.00	0.00	0.00	1.10	4.85	
13	6.25	0.80	14.60	3.65	4.40	8.25	2.75	0.00	0.00	0.00	4.10	4.85	
14	25.80	1.10	22.60	15.00	3.05	6.75	4.25	0.00	0.00	0.00	4.85	4.55	
15	12.70	3.35	9.50	89.00	4.40	10.90	3.05	1.50	0.00	0.00	4.25	4.70	
16	10.30	0.60	5.50	117.35	32.60	11.80	1.30	1.10	0.00	0.00	1.60	4.10	
17	7.25	0.00	4.55	84.20	17.80	8.25	0.10	2.30	0.00	0.00	0.40	4.40	
18	7.00	0.00	4.25	51.00	44.20	25.40	0.00	2.00	0.00	0.00	1.10	4.10	
19	48.60	0.00	4.55	43.80	20.60	111.05	0.40	1.00	0.60	0.00	3.20	4.10	
20	16.60	0.00	6.50	24.20	79.40	61.00	0.40	0.20	1.70	0.00	4.70	3.95	
21	8.25	0.00	8.00	14.60	54.60	18.60	0.00	0.00	0.70	0.00	3.80	3.65	
22	5.00	0.00	5.75	10.00	34.60	12.70	0.60	0.00	0.70	0.30	4.40	3.35	
23	2.00	0.00	3.65	7.75	36.60	10.30	7.75	0.00	1.00	0.00	5.00	3.05	
24	0.00	0.00	4.85	5.75	38.20	12.70	6.00	0.00	1.20	0.00	5.75	3.95	
25	0.00	0.00	4.25	4.55	22.60	35.00	6.00	0.00	1.60	0.00	6.00	3.95	
26	0.00	0.00	4.55	3.80	10.00	35.40	10.60	0.00	1.70	0.00	5.25	4.40	
27	0.00	0.00	4.70	1.90	8.25	26.60	7.50	0.00	0.60	0.00	4.10	4.25	
28	0.00	0.00	5.25	1.10	6.75	63.80	7.25	0.00	0.90	0.20	4.55	3.80	
29	0.00	0.00	6.75	3.05	9.75	114.65	4.10	0.00	0.00	0.00		3.65	
30	0.00	0.00	43.40	2.60	8.50	45.80	3.50	0.00	0.00	0.00		4.25	
31		0.00		2.15	5.50		3.05		0.00	0.00		4.25	
TOTAL	191.05	32.10	267.85	661.20	502.40	1390.10	158.35	23.70	10.70	9.40	83.20	115.80	3445.85 CMSDAY
MEAN	6.37	1.04	8.93	21.33	16.21	46.34	5.11	0.79	0.35	0.30	2.97	3.74	9.44 CMS
MAX	48.60	7.25	43.40	117.35	79.40	225.50	21.40	2.75	1.70	2.90	6.00	4.85	225.50 CMS
MIN	0.00	0.00	0.00	1.10	0.50	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	16.507	2.773	23.142	57.128	43.407	120.105	13.681	2.048	0.924	0.812	7.188	10.005	297.721 MCM

MOMENTARY PEAK 274.50 CMS, AT 7.68 M (A.D), AT 20.00 HOURS, ON SEP 7, 1982

RUNOFF YIELD 24.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 707.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

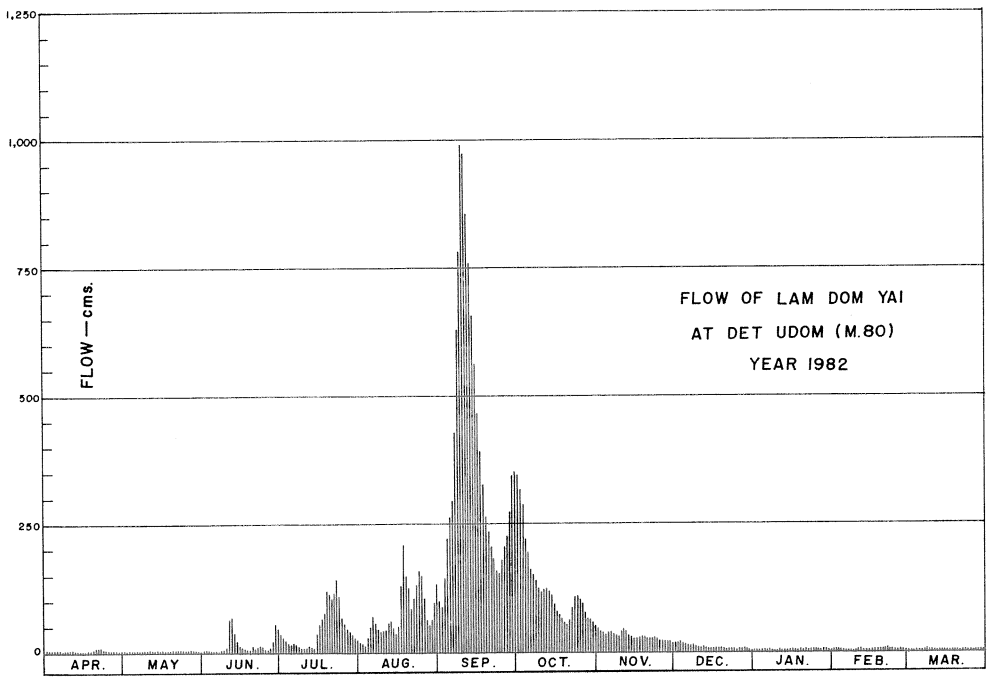
LAM DOM YAI AT DET UDOM, UBON RATCHATHANI (M.80)

LOCATION	LAT. 14°-53'-53" N., LONG. 105°-05'-08" E., ON LEFT BANK ABOUT 20 METERS DOWNSTREAM FROM THE BRIDGE ON ROAD, AMPHOE DET UDOM, UBON RATCHATHANI.
DRAINAGE AREA	3,363 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+11.826 M.(A.D.)
GAGE READING FREQUENCY	RECORDING
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.80	0.75	2.08	1.54	3.61	7.60	2.38	1.57	1.06	0.85	0.72	
2	0.74	0.76	0.72	1.89	1.48	3.32	7.30	2.29	1.66	1.04	0.85	0.72	
3	0.73	0.73	0.72	1.67	1.44	4.52	6.85	2.19	1.68	1.03	0.85	0.72	
4	0.69	0.74	0.72	1.56	1.87	5.84	5.75	2.09	1.59	1.03	0.85	0.72	
5	0.69	0.73	0.72	1.54	2.41	6.67	5.36	2.14	1.54	1.02	0.84	0.72	
6	0.69	0.72	0.72	1.61	3.03	6.96	4.80	2.21	1.49	1.02	0.84	0.72	
7	0.69	0.72	0.73	1.50	2.58	8.47	4.54	2.07	1.45	1.02	0.83	0.72	
8	0.70	0.71	0.75	1.36	2.31	10.48	4.38	2.02	1.41	1.01	0.82	0.72	
9	0.72	0.69	0.86	1.27	2.23	11.34	4.04	1.96	1.40	0.99	0.82	0.72	
10	0.73	0.69	1.31	1.21	2.30	11.96	3.85	2.11	1.38	0.98	0.81	0.72	
11	0.76	0.70	2.92	1.23	2.42	11.91	3.87	2.46	1.36	0.98	0.82	0.72	
12	0.79	0.69	2.97	1.24	2.79	11.57	4.02	2.27	1.33	0.98	0.81	0.71	
13	0.79	0.70	2.08	1.22	2.85	11.10	3.86	2.08	1.30	0.97	0.81	0.71	
14	0.79	0.71	1.71	1.23	2.43	10.61	3.82	1.96	1.28	0.96	0.80	0.67	
15	0.79	0.70	1.42	2.17	2.08	9.88	3.47	1.87	1.26	0.95	0.80	0.67	
16	0.85	0.70	1.29	2.66	2.53	8.78	3.17	1.83	1.24	0.92	0.80	0.67	
17	0.85	0.71	1.21	2.89	4.54	8.07	2.96	1.85	1.21	0.92	0.80	0.67	
18	0.84	0.71	1.17	3.11	5.55	7.25	2.80	1.95	1.21	0.91	0.80	0.67	
19	0.92	0.71	1.10	3.95	4.11	6.50	2.64	1.95	1.20	0.91	0.80	0.67	
20	1.09	0.71	1.34	3.95	4.03	6.05	2.52	1.92	1.18	0.91	0.78	0.67	
21	1.45	0.71	1.21	3.57	3.29	5.55	2.71	1.94	1.16	0.91	0.75	0.64	
22	1.29	0.65	1.28	4.03	3.70	5.18	3.29	1.93	1.11	0.91	0.74	0.64	
23	1.16	0.63	1.25	4.42	4.26	4.69	3.70	1.87	1.09	0.90	0.74	0.64	
24	1.04	0.63	1.15	3.51	4.74	4.65	3.73	1.81	1.07	0.89	0.74	0.64	
25	0.94	0.63	1.06	2.99	4.52	5.00	3.61	1.75	1.06	0.88	0.74	0.64	
26	0.94	0.65	1.17	2.66	3.56	5.51	3.44	1.77	1.08	0.88	0.74	0.64	
27	0.90	0.70	1.17	2.38	2.83	5.92	3.05	1.77	1.10	0.88	0.74	0.64	
28	0.87	0.71	1.80	2.15	2.60	6.85	2.82	1.71	1.09	0.88	0.72	0.64	
29	0.84	0.76	2.81	2.00	2.84	7.61	2.85	1.67	1.09	0.88		0.64	
30	0.81	0.77	2.36	1.80	3.61	7.77	2.64	1.61	1.08	0.87		0.64	
31		0.77		1.63	4.31		2.46		1.06	0.85		0.64	
MEAN	0.86	0.71	1.35	2.27	3.06	7.45	3.93	1.98	1.28	0.95	0.80	0.68	
MAX	1.45	0.80	2.97	4.42	5.55	11.96	7.60	2.46	1.68	1.06	0.85	0.72	11.96
MIN	0.69	0.63	0.72	1.21	1.44	3.32	2.46	1.61	1.06	0.85	0.72	0.64	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 12.03 M (A.D), AT 17.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.18 M (A.D)
LEFT BANK ELEVATION 13.50 M (A.D)
RIGHT BANK ELEVATION 12.87 M (A.D), DRAINAGE AREA 3363 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.0	2.4	2.0	35.2	16.7	104.9	346.0	47.2	17.6	5.8	2.9	1.8	
2	1.9	2.1	1.8	27.8	15.1	90.3	322.0	43.6	20.2	5.4	2.9	1.8	
3	1.8	1.8	1.8	20.5	14.0	150.9	290.5	39.6	20.8	5.3	2.9	1.8	
4	1.5	1.9	1.8	17.3	27.1	228.4	223.0	35.6	18.1	5.3	2.9	1.8	
5	1.5	1.8	1.8	16.7	48.4	278.2	199.6	37.6	16.7	5.1	2.8	1.8	
6	1.5	1.8	1.8	18.7	75.6	298.2	166.0	40.4	15.3	5.1	2.8	1.8	
7	1.5	1.8	1.8	15.6	55.2	418.3	151.9	34.8	14.3	5.1	2.7	1.8	
8	1.6	1.7	2.0	12.0	44.4	636.2	143.8	32.8	13.3	5.0	2.6	1.8	
9	1.8	1.5	3.0	9.9	41.2	798.0	126.7	30.5	13.0	4.7	2.6	1.8	
10	1.8	1.5	10.8	8.6	44.0	991.2	117.1	36.4	12.5	4.5	2.5	1.8	
11	2.1	1.6	70.1	9.1	48.8	970.2	118.1	50.4	12.0	4.5	2.6	1.8	
12	2.3	1.5	72.6	9.3	63.6	856.2	125.6	42.8	11.3	4.5	2.5	1.7	
13	2.3	1.6	35.2	8.8	66.5	742.0	117.6	35.2	10.6	4.4	2.5	1.7	
14	2.3	1.7	21.7	9.1	49.2	654.5	115.5	30.5	10.2	4.2	2.4	1.4	
15	2.3	1.6	13.5	38.8	35.2	558.8	97.9	27.1	9.7	4.1	2.4	1.4	
16	2.9	1.6	10.4	58.4	53.2	446.2	82.7	25.7	9.3	3.7	2.4	1.4	
17	2.9	1.7	8.6	68.5	151.9	383.6	72.1	26.4	8.6	3.7	2.4	1.4	
18	2.8	1.7	7.8	79.7	211.0	318.5	64.0	30.1	8.6	3.5	2.4	1.4	
19	3.7	1.7	6.4	122.1	130.2	268.0	57.6	30.1	8.4	3.5	2.4	1.4	
20	6.2	1.7	11.6	122.1	126.1	241.0	52.8	29.0	8.0	3.5	2.2	1.4	
21	14.3	1.7	8.6	102.9	88.8	211.0	60.4	29.7	7.6	3.5	2.0	1.1	
22	10.4	1.2	10.2	126.1	109.5	188.8	88.8	29.3	6.6	3.5	1.9	1.1	
23	7.6	1.0	9.5	145.9	137.8	159.5	109.5	27.1	6.2	3.4	1.9	1.1	
24	5.4	1.0	7.4	99.9	162.4	157.5	111.0	25.0	5.9	3.3	1.9	1.1	
25	4.0	1.0	5.8	73.6	150.9	178.0	104.9	23.0	5.8	3.2	1.9	1.1	
26	4.0	1.2	7.8	58.4	102.4	208.6	96.3	23.6	6.1	3.2	1.9	1.1	
27	3.4	1.6	7.8	47.2	65.5	233.2	76.6	23.6	6.4	3.2	1.9	1.1	
28	3.1	1.7	24.6	38.0	56.0	290.5	65.0	21.7	6.2	3.2	1.8	1.1	
29	2.8	2.1	64.5	32.0	66.0	346.8	66.5	20.5	6.2	3.2		1.1	
30	2.5	2.2	46.4	24.6	104.9	359.6	57.6	18.7	6.1	3.1		1.1	
31		2.2		19.3	140.3		50.4		5.8	2.9		1.1	
TOTAL	104.2	51.6	479.1	1476.1	2501.9	11767.1	3877.5	948.0	327.4	126.6	67.0	45.1	21771.6 CMSDAY
MEAN	3.5	1.7	16.0	47.6	80.7	392.2	125.1	31.6	10.6	4.1	2.4	1.5	59.6 CMS
MAX	14.3	2.4	72.6	145.9	211.0	991.2	346.0	50.4	20.8	5.8	2.9	1.8	991.2 CMS
MIN	1.5	1.0	1.8	8.6	14.0	90.3	50.4	18.7	5.8	2.9	1.8	1.1	1.0 CMS
RUNOFF	9.00	4.46	41.39	127.54	216.16	1016.68	335.02	81.91	28.29	10.94	5.79	3.90	1881.07 MCM

MOMENTARY PEAK 1021.80 CMS, AT 12.03 M (A.D), AT 17.00 HOURS, ON SEP 10, 1982
RUNOFF YIELD 17.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 303.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

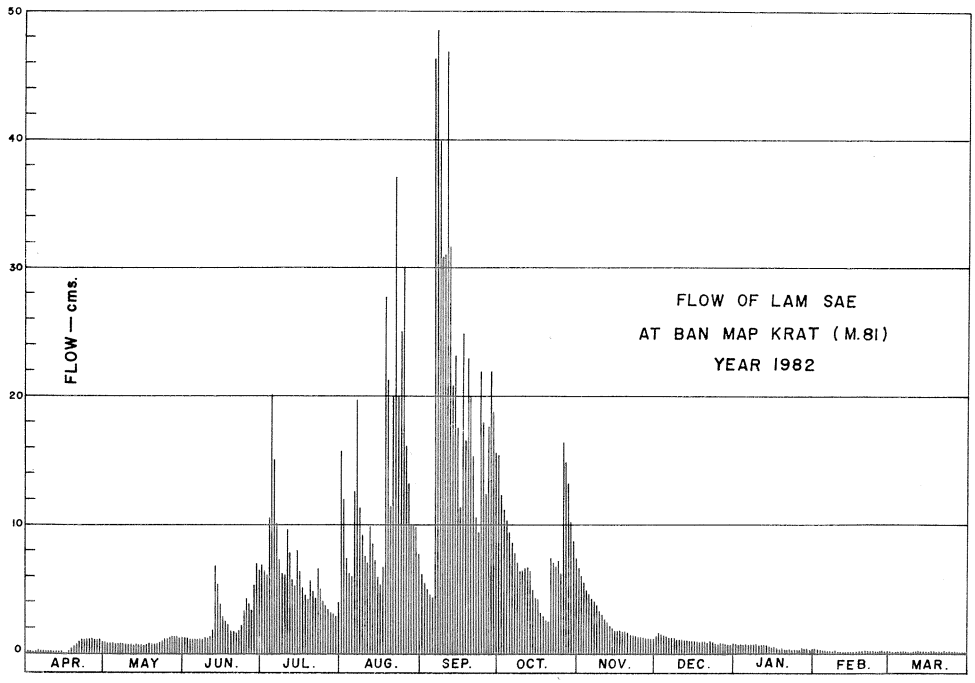
LAM SAE AT BAN MAP KRAT, NAKHON RATCHASIMA (M.81.)

LOCATION	LAT. 14°-23'-51" N., LONG. 102°-15'-20" E., ON RIGHT BANK ABOUT 3 KILOMETERS UPSTREAM FROM DAM SITE AT BAN MAP KRAT, TAMBON KHOK KRACHAI, AMPHOE KHON BURI, NAKHON RATCHASIMA.
DRAINAGE AREA	482 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+208.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK IN THE VICINITY OF WAT MAP KRAT AND ABOUT 150 METERS FROM THE GAGE SITE.
ELEVATION	+215.006 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 - 1969, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 - 1969, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED BUT NOT INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY LAM SAE DAM DOWNSTREAM. STAGE-DISCHARGE RELATION DEFINED BY 85 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	209.15	210.17	210.55	211.83	212.22	211.76	212.10	211.57	210.69	210.02	209.43	209.15	
2	209.15	210.15	210.52	211.78	212.02	211.70	211.96	211.51	210.82	210.00	209.44	209.14	
3	209.15	210.13	210.49	211.74	211.86	211.65	211.88	211.45	210.75	209.99	209.46	209.17	
4	209.15	210.13	210.47	212.11	211.76	211.62	211.83	211.39	210.67	209.98	209.49	209.24	
5	209.14	210.11	210.48	212.35	211.74	211.54	211.78	211.35	210.59	209.96	209.44	209.30	
6	209.14	210.11	210.50	212.23	212.15	212.21	211.71	211.32	210.54	209.93	209.43	209.42	
7	209.12	210.09	210.54	211.94	212.34	212.98	211.65	211.28	210.50	209.89	209.43	209.29	
8	209.10	210.06	210.54	211.82	212.07	212.92	211.59	211.24	210.48	209.92	209.40	209.28	
9	209.09	210.04	210.52	211.75	212.00	212.62	211.53	211.19	210.44	209.92	209.37	209.23	
10	209.10	210.03	210.50	211.77	211.88	212.63	211.53	211.12	210.41	209.92	209.32	209.38	
11	209.09	210.02	210.75	211.99	211.83	212.95	211.57	211.07	210.39	209.92	209.35	209.26	
12	209.13	210.02	211.06	211.88	212.00	212.55	211.57	211.00	210.37	209.91	209.26	209.16	
13	209.08	210.00	211.82	211.75	211.92	212.37	211.52	210.93	210.34	209.90	209.26	209.14	
14	209.08	209.98	211.59	211.67	211.84	212.44	211.36	210.89	210.32	209.90	209.26	209.14	
15	209.16	209.97	211.38	211.91	211.75	212.17	211.29	210.88	210.30	209.89	209.23	209.13	
16	209.40	209.97	211.28	211.80	211.68	212.06	211.32	210.85	210.29	209.88	209.24	209.07	
17	209.68	209.94	211.16	211.67	211.80	212.48	211.16	210.85	210.27	209.85	209.22	209.08	
18	209.90	210.10	211.06	211.58	212.55	212.25	211.10	210.84	210.25	209.81	209.18	209.07	
19	210.02	210.08	210.96	211.53	212.19	212.43	211.04	210.86	210.23	209.73	209.18	209.08	
20	210.15	210.07	210.87	211.73	212.07	212.37	211.04	210.85	210.19	209.69	209.20	209.08	
21	210.30	210.06	210.87	211.64	212.54	212.22	211.62	210.78	210.13	209.64	209.16	209.06	
22	210.42	210.11	211.02	211.53	212.76	212.05	211.58	210.72	210.11	209.61	209.18	209.10	
23	210.48	210.22	211.08	211.81	212.35	211.97	211.56	210.67	210.09	209.59	209.16	209.10	
24	210.48	210.35	211.43	211.63	212.48	212.40	211.61	210.65	210.07	209.59	209.17	209.06	
25	210.44	210.42	211.57	211.52	212.64	212.26	211.51	210.65	210.07	209.58	209.18	209.05	
26	210.39	210.52	211.48	211.45	212.25	212.11	212.14	210.62	210.07	209.57	209.11	209.03	
27	210.33	210.56	211.37	211.36	212.14	212.34	212.08	210.57	210.09	209.54	209.15	209.05	
28	210.27	210.60	211.72	211.33	212.00	212.41	211.99	210.54	210.10	209.53	209.14	209.06	
29	210.23	210.59	211.83	211.34	212.01	212.21	211.81	210.52	210.09	209.50		209.02	
30	210.20	210.59	211.79	211.33	211.96	212.10	211.75	210.52	210.06	209.45		209.00	
31		210.58		211.33	211.85		211.63		210.03	209.43		208.99	
MEAN	209.65	210.19	211.04	211.71	212.09	212.26	211.61	210.96	210.31	209.78	209.28	209.14	
MAX	210.48	210.60	211.83	212.35	212.76	212.98	212.14	211.57	210.82	210.02	209.49	209.42	212.98
MIN	209.08	209.94	210.47	211.33	211.68	211.54	211.04	210.52	210.03	209.43	209.11	208.99	208.99

ANNUAL MAX MOMENTARY GAGE HEIGHT 213.15 M (MSL), AT 6.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 208.00 M (MSL), RIVER BED 209.10 M (MSL)
LEFT BANK ELEVATION 213.11 M (MSL)
RIGHT BANK ELEVATION 213.84 M (MSL), DRAINAGE AREA 482 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.87	1.25	7.12	15.82	6.26	15.60	6.87	1.39	0.72	0.21	0.07	
2	0.07	0.85	1.22	6.48	10.46	5.60	12.84	6.21	1.58	0.70	0.22	0.07	
3	0.07	0.83	1.19	6.04	7.54	5.15	11.36	5.60	1.45	0.69	0.23	0.08	
4	0.07	0.83	1.17	12.59	6.26	4.88	10.51	5.01	1.37	0.68	0.25	0.12	
5	0.07	0.81	1.18	20.10	6.04	4.28	9.70	4.65	1.29	0.66	0.22	0.15	
6	0.07	0.81	1.20	16.13	13.75	15.51	8.65	4.38	1.24	0.63	0.21	0.21	
7	0.06	0.79	1.24	8.86	19.74	48.66	7.85	4.06	1.20	0.59	0.21	0.14	
8	0.05	0.76	1.24	6.98	11.61	45.24	7.09	3.78	1.18	0.62	0.20	0.14	
9	0.04	0.74	1.22	6.15	10.00	30.88	6.43	3.43	1.14	0.62	0.18	0.11	
10	0.05	0.73	1.20	6.37	7.82	31.32	6.43	2.94	1.11	0.62	0.16	0.19	
11	0.04	0.72	1.45	9.81	7.12	46.95	6.87	2.65	1.09	0.62	0.18	0.13	
12	0.07	0.72	2.18	7.82	10.00	27.90	6.87	2.30	1.07	0.61	0.13	0.08	
13	0.04	0.70	6.98	6.15	8.48	20.82	6.32	2.02	1.04	0.60	0.13	0.07	
14	0.04	0.68	4.63	5.33	7.26	23.46	4.74	1.86	1.02	0.60	0.13	0.07	
15	0.08	0.67	3.40	8.29	6.15	14.33	4.13	1.82	1.00	0.59	0.11	0.07	
16	0.20	0.67	2.92	6.70	5.42	11.38	4.38	1.70	0.99	0.58	0.12	0.04	
17	0.38	0.64	2.48	5.33	6.70	25.02	3.22	1.70	0.97	0.55	0.11	0.04	
18	0.60	0.80	2.18	4.56	27.90	16.75	2.80	1.66	0.95	0.51	0.09	0.04	
19	0.72	0.78	1.88	4.21	14.91	23.07	2.50	1.74	0.93	0.43	0.09	0.04	
20	0.85	0.77	1.64	5.93	11.61	20.82	2.50	1.70	0.89	0.39	0.10	0.04	
21	1.00	0.76	1.64	5.06	27.48	15.82	7.46	1.48	0.83	0.34	0.08	0.03	
22	1.12	0.81	2.06	4.21	37.22	11.15	6.98	1.42	0.81	0.31	0.09	0.05	
23	1.18	0.92	2.24	6.84	20.10	9.43	6.76	1.37	0.79	0.29	0.08	0.05	
24	1.18	1.05	3.65	4.97	25.02	21.90	7.33	1.35	0.77	0.29	0.08	0.03	
25	1.14	1.12	4.49	4.14	31.76	17.06	6.21	1.35	0.77	0.29	0.09	0.03	
26	1.09	1.22	3.90	3.75	16.75	12.59	16.52	1.32	0.77	0.29	0.05	0.01	
27	1.03	1.26	3.35	3.30	13.46	19.74	15.20	1.27	0.79	0.27	0.07	0.03	
28	0.97	1.30	5.82	3.15	10.00	22.29	13.41	1.24	0.80	0.26	0.07	0.03	
29	0.93	1.29	7.12	3.20	10.23	18.14	10.17	1.22	0.79	0.25		0.01	
30	0.90	1.29	6.59	3.15	9.24	15.60	9.25	1.22	0.76	0.22		0.00	
31		1.28		3.15	7.40		7.59		0.73	0.21		0.00	
TOTAL	14.18	27.47	82.71	205.87	423.25	592.00	247.67	79.32	31.51	15.03	3.89	2.17	1725.07 CMSDAY
MEAN	0.47	0.89	2.76	6.64	13.65	19.73	7.99	2.64	1.02	0.48	0.14	0.07	4.73 CMS
MAX	1.18	1.30	7.12	20.10	37.22	48.66	16.52	6.87	1.58	0.72	0.25	0.21	48.66 CMS
MIN	0.04	0.64	1.17	3.15	5.42	4.28	2.50	1.22	0.73	0.21	0.05	0.00	0.00 CMS
RUNOFF	1.225	2.373	7.146	17.787	36.569	51.149	21.399	6.853	2.722	1.299	0.336	0.187	149.046 MCM

MOMENTARY PEAK 58.55 CMS, AT 213.15 M (MSL), AT 6.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 9.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 121.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

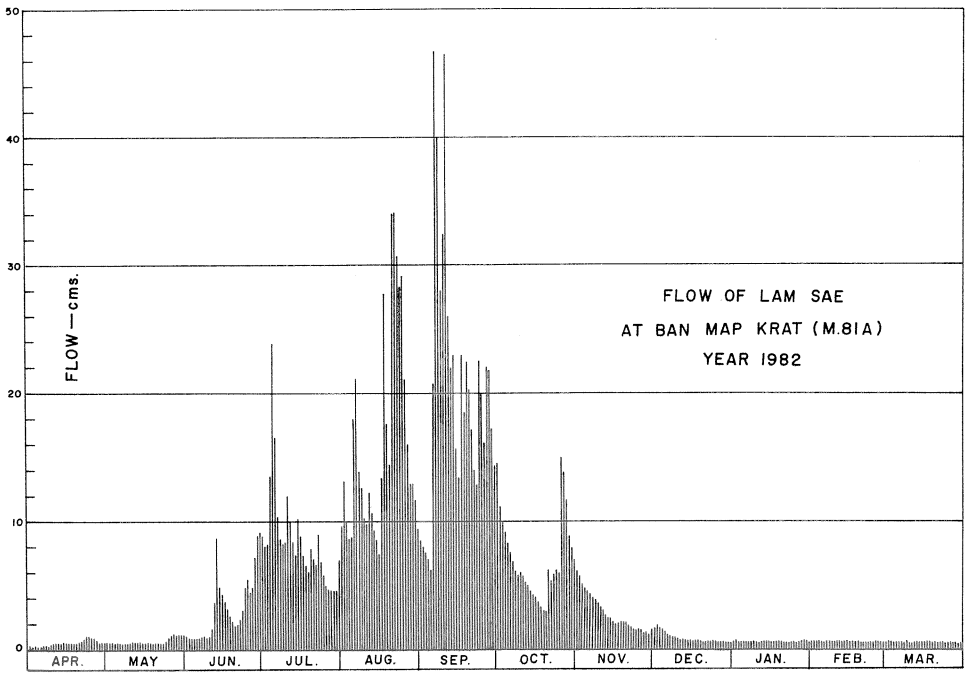
LAM SAE AT BAN MAP KRAT, NAKHON RATCHASIMA (M.81A)

LOCATION	LAT. 14°-22'-22" N., LONG. 102°-15'-40" E., ON RIGHT BANK ABOUT 4 KILOMETERS UPSTREAM FROM M.81 STATION AT BAN MAP KRAT, TAMBON KHOK KRA CHAI, AMPHOE KHON BURI, NAKHON RATCHASIMA.
DRAINAGE AREA	433 SQ. KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+209.767 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BESIDE THE AUTOMATIC GAGE BUILDING.
ELEVATION	+216.857 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1970 - 1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1970 - 1980.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 502 DISCHARGE MEASUREMENTS MADE DURING 1977 - 1980.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	209.86	210.31	210.62	212.02	212.05	211.99	212.42	211.76	210.84	210.13	210.16	210.15	
2	209.86	210.31	210.57	211.96	212.34	211.92	212.24	211.68	210.94	210.13	210.19	210.13	
3	209.87	210.29	210.54	211.96	212.12	211.89	212.15	211.60	210.87	210.11	210.18	210.14	
4	209.86	210.29	210.52	212.49	211.99	211.84	212.07	211.53	210.78	210.11	210.16	210.16	
5	209.86	210.29	210.52	212.92	212.02	211.74	212.00	211.48	210.69	210.09	210.16	210.17	
6	209.87	210.28	210.55	212.59	212.73	212.97	211.91	211.44	210.64	210.06	210.18	210.15	
7	209.86	210.27	210.58	212.19	212.78	213.79	211.84	211.40	210.59	210.06	210.17	210.12	
8	209.88	210.27	210.58	212.00	212.39	213.58	211.77	211.35	210.57	210.06	210.17	210.09	
9	210.01	210.26	210.57	211.96	212.30	213.10	211.70	211.30	210.52	210.05	210.18	210.06	
10	210.13	210.25	210.55	211.99	212.11	213.37	211.71	211.25	210.49	210.04	210.15	210.05	
11	210.15	210.24	210.84	212.27	212.11	213.78	211.73	211.18	210.46	210.04	210.14	210.05	
12	210.15	210.24	211.34	212.14	212.29	213.02	211.62	211.11	210.44	210.04	210.13	210.05	
13	210.14	210.23	212.01	211.98	212.20	212.82	211.56	211.08	210.42	210.04	210.14	210.05	
14	210.14	210.23	211.70	211.88	212.08	212.87	211.50	211.05	210.39	210.03	210.15	210.07	
15	210.15	210.23	211.49	212.15	211.97	212.51	211.43	211.02	210.37	210.02	210.13	210.07	
16	210.19	210.21	211.36	212.02	211.89	212.36	211.36	210.99	210.36	210.01	210.12	210.07	
17	210.19	210.20	211.22	211.88	212.41	212.87	211.29	210.99	210.34	210.00	210.12	210.07	
18	210.21	210.14	211.10	211.79	213.09	212.65	211.23	211.01	210.33	209.97	210.12	210.07	
19	210.25	210.13	211.00	211.74	212.58	212.84	211.17	211.03	210.31	209.98	210.14	210.07	
20	210.28	210.13	210.93	211.94	212.42	212.74	211.19	210.99	210.29	210.03	210.14	210.12	
21	210.39	210.13	210.94	211.85	213.34	212.57	211.77	210.90	210.24	210.04	210.17	210.11	
22	210.53	210.16	211.07	211.81	213.34	212.35	211.64	210.85	210.22	210.08	210.14	210.09	
23	210.60	210.35	211.16	212.05	212.79	212.32	211.70	210.80	210.22	210.09	210.14	210.08	
24	210.58	210.49	211.53	211.86	213.11	212.85	211.76	210.78	210.19	210.09	210.15	210.06	
25	210.54	210.54	211.67	211.72	213.14	212.65	211.72	210.76	210.19	210.10	210.14	210.05	
26	210.50	210.63	211.57	211.61	212.65	212.53	212.46	210.72	210.19	210.13	210.14	210.04	
27	210.45	210.66	211.48	211.50	212.48	212.82	212.38	210.69	210.19	210.13	210.14	210.03	
28	210.41	210.68	211.90	211.49	212.32	212.81	212.24	210.66	210.19	210.14	210.09	210.04	
29	210.38	210.66	212.02	211.50	212.32	212.57	212.03	210.64	210.18	210.14		210.03	
30	210.35	210.65	211.96	211.49	212.24	212.42	211.96	210.69	210.16	210.14		210.03	
31		210.65		211.81	212.08		211.86		210.15	210.16		210.01	
MEAN	210.19	210.34	211.13	211.95	212.44	212.68	211.79	211.09	210.41	210.07	210.15	210.08	
MAX	210.60	210.68	212.02	212.92	213.34	213.79	212.46	211.76	210.94	210.16	210.19	210.17	213.79
MIN	209.86	210.13	210.52	211.49	211.89	211.74	211.17	210.64	210.15	209.97	210.09	210.01	209.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 214.53 M (MSL), AT 23.00 HOURS, ON SEP 6, 1982
ZERO GAGE AT BOTTOM ELEVATION 209.77 M (MSL), RIVER BED 209.10 M (MSL)
LEFT BANK ELEVATION 213.97 M (MSL)
RIGHT BANK ELEVATION 214.04 M (MSL), DRAINAGE AREA 433 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.56	1.05	8.70	9.00	8.40	14.30	6.20	1.60	0.48	0.50	0.49	
2	0.37	0.56	0.94	8.10	13.10	7.70	11.60	5.60	1.85	0.48	0.51	0.48	
3	0.37	0.55	0.88	8.10	9.80	7.40	10.25	5.00	1.68	0.48	0.51	0.49	
4	0.37	0.55	0.84	15.35	8.40	6.90	9.20	4.65	1.45	0.48	0.50	0.50	
5	0.37	0.55	0.84	23.90	8.70	6.05	8.50	4.40	1.22	0.47	0.50	0.50	
6	0.37	0.55	0.90	17.30	20.10	24.90	7.60	4.20	1.10	0.45	0.51	0.49	
7	0.37	0.54	0.96	10.85	21.10	46.70	6.90	4.00	0.98	0.45	0.50	0.48	
8	0.38	0.54	0.96	8.50	13.85	40.40	6.28	3.75	0.94	0.45	0.50	0.47	
9	0.43	0.54	0.94	8.10	12.50	28.00	5.75	3.50	0.84	0.45	0.51	0.45	
10	0.48	0.54	0.90	8.40	9.65	34.75	5.83	3.25	0.78	0.45	0.49	0.45	
11	0.49	0.53	1.60	12.05	9.65	46.40	5.98	2.90	0.72	0.45	0.49	0.45	
12	0.49	0.53	3.70	10.10	12.35	26.00	5.15	2.55	0.68	0.45	0.48	0.45	
13	0.49	0.53	8.60	8.30	11.00	21.90	4.80	2.40	0.64	0.45	0.49	0.45	
14	0.49	0.53	5.75	7.30	9.30	22.90	4.50	2.25	0.60	0.44	0.49	0.46	
15	0.49	0.53	4.45	10.25	8.20	15.70	4.15	2.10	0.59	0.44	0.48	0.46	
16	0.51	0.52	3.80	8.70	7.40	13.40	3.80	1.98	0.58	0.43	0.48	0.46	
17	0.51	0.51	3.10	7.30	14.15	22.90	3.45	1.98	0.57	0.43	0.48	0.46	
18	0.52	0.49	2.50	6.43	27.75	18.50	3.15	2.05	0.57	0.42	0.48	0.46	
19	0.54	0.48	2.00	6.05	17.10	22.30	2.85	2.15	0.56	0.42	0.49	0.46	
20	0.55	0.48	1.83	7.90	14.30	20.30	2.95	1.98	0.55	0.44	0.49	0.48	
21	0.60	0.48	1.85	7.00	34.00	16.90	6.28	1.75	0.53	0.45	0.50	0.48	
22	0.86	0.50	2.35	6.60	34.00	13.25	5.30	1.63	0.52	0.46	0.49	0.47	
23	1.00	0.58	2.80	9.00	21.30	12.80	5.75	1.50	0.52	0.47	0.49	0.46	
24	0.96	0.78	4.65	7.10	28.25	22.50	6.20	1.45	0.51	0.47	0.49	0.45	
25	0.88	0.88	5.52	5.90	29.00	18.50	5.90	1.40	0.51	0.47	0.49	0.45	
26	0.80	1.07	4.85	5.07	18.50	16.10	14.90	1.30	0.51	0.48	0.49	0.45	
27	0.70	1.15	4.40	4.50	15.20	21.90	13.70	1.22	0.51	0.48	0.49	0.44	
28	0.62	1.20	7.50	4.45	12.80	21.70	11.60	1.15	0.51	0.49	0.47	0.45	
29	0.59	1.15	8.70	4.50	12.80	16.90	8.80	1.10	0.51	0.49		0.44	
30	0.58	1.13	8.10	4.45	11.60	14.30	8.10	1.22	0.50	0.49		0.44	
31		1.13		6.60	9.30		7.10		0.49	0.50		0.43	
TOTAL	16.55	20.66	97.26	266.85	484.15	616.35	220.62	80.61	24.12	14.26	13.79	14.35	1869.57 CMSDAY
MEAN	0.55	0.67	3.24	8.61	15.62	20.55	7.12	2.69	0.78	0.46	0.49	0.46	5.12 CMS
MAX	1.00	1.20	8.70	23.90	34.00	46.70	14.90	6.20	1.85	0.50	0.51	0.50	46.70 CMS
MIN	0.37	0.48	0.84	4.45	7.40	6.05	2.85	1.10	0.49	0.42	0.47	0.43	0.37 CMS
RUNOFF	1.430	1.785	8.403	23.056	41.831	53.253	19.062	6.965	2.084	1.232	1.191	1.240	161.531 MCM

MOMENTARY PEAK 72.70 CMS, AT 214.53 M (MSL), AT 23.00 HOURS, ON SEP 6, 1982

RUNOFF YIELD 11.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 167.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

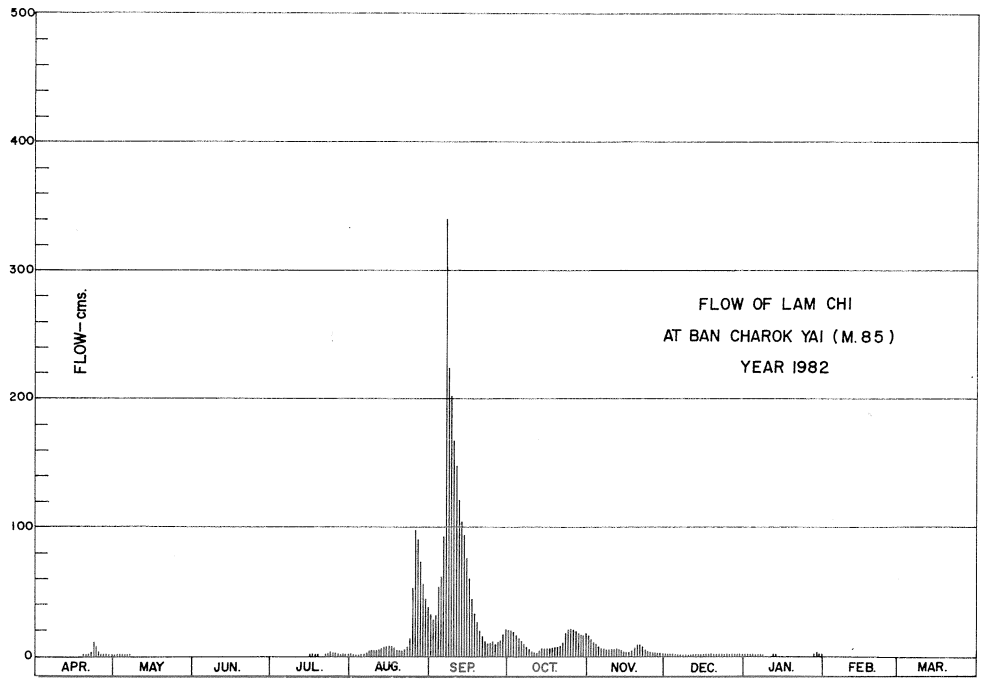
LAM CHI AT BAN CHAROK YAI, BURI RAM (M.85)

LOCATION	LAT. 14°-37′-54″ N., LONG. 103°-14′-03″ E., ON RIGHT BANK AT THE BRIDGE OF PRASAT-PRAKHONCHAI HIGHWAY NEAR GUIDEPOST 104 AT BAN CHAROK YAI, TAMBON LAVIA, AMPHOE PRAKHON CHAI, BURI RAM.
DRAINAGE AREA	1,046 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+6.546 M.(A.D.)
GAGE READING FREQUENCY	3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 - 1971, 1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 - 1971, 1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 - 1971, 1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.76	0.41	0.51	0.62	3.15	2.77	2.62	1.26	0.64	0.59	0.47	
2	0.52	0.65	0.41	0.50	0.60	3.06	2.77	2.43	1.24	0.66	0.58	0.47	
3	0.50	0.72	0.41	0.48	0.59	3.17	2.74	2.25	1.23	0.71	0.56	0.47	
4	0.49	0.77	0.41	0.47	0.66	3.43	2.67	2.10	1.20	0.74	0.54	0.47	
5	0.49	0.64	0.43	0.48	0.85	3.50	2.55	2.00	1.15	0.78	0.53	0.48	
6	0.47	0.65	0.45	0.46	0.96	3.73	2.48	1.92	1.13	0.71	0.52	0.49	
7	0.45	0.63	0.46	0.48	1.20	4.48	2.32	1.80	1.10	0.67	0.52	0.49	
8	0.44	0.56	0.49	0.49	1.60	4.21	2.07	1.74	1.09	0.62	0.54	0.50	
9	0.49	0.51	0.52	0.47	1.70	4.09	1.77	1.69	1.09	0.60	0.57	0.49	
10	0.49	0.49	0.54	0.48	1.71	4.00	1.62	1.71	0.96	0.57	0.55	0.48	
11	0.50	0.47	0.51	0.47	1.75	3.91	1.47	1.73	0.98	0.57	0.53	0.46	
12	0.50	0.43	0.50	0.50	1.78	3.83	1.46	1.77	1.06	0.61	0.51	0.45	
13	0.52	0.43	0.51	0.50	1.84	3.76	1.62	1.77	1.02	0.62	0.51	0.45	
14	0.56	0.43	0.53	0.56	1.91	3.66	1.81	1.75	0.92	0.58	0.52	0.44	
15	0.56	0.42	0.54	0.59	1.99	3.57	1.84	1.67	0.90	0.60	0.53	0.44	
16	0.55	0.42	0.56	0.64	2.07	3.48	1.87	1.61	0.87	0.56	0.53	0.44	
17	0.56	0.43	0.58	0.71	2.03	3.39	1.85	1.51	0.85	0.58	0.54	0.44	
18	0.60	0.45	0.59	0.69	1.84	3.08	1.92	1.53	0.83	0.58	0.54	0.44	
19	0.63	0.45	0.59	0.67	1.65	2.96	1.99	1.81	0.80	0.57	0.55	0.45	
20	0.66	0.45	0.57	0.60	1.49	2.77	2.03	2.02	0.81	0.56	0.56	0.45	
21	0.63	0.45	0.53	0.57	1.60	2.54	2.08	2.16	0.83	0.58	0.54	0.47	
22	0.77	0.45	0.49	0.75	1.79	2.27	2.28	2.12	0.84	0.59	0.51	0.48	
23	2.30	0.44	0.46	1.29	1.99	2.26	2.63	1.95	0.84	0.57	0.48	0.49	
24	2.06	0.44	0.45	1.38	2.58	2.25	2.77	1.74	0.77	0.55	0.47	0.49	
25	1.35	0.43	0.44	1.37	3.47	2.31	2.83	1.70	0.73	0.55	0.49	0.49	
26	1.18	0.42	0.44	1.28	3.75	2.26	2.80	1.59	0.75	0.51	0.50	0.48	
27	1.10	0.42	0.45	1.17	3.69	2.24	2.74	1.50	0.77	0.54	0.48	0.48	
28	1.05	0.42	0.47	0.98	3.57	2.38	2.70	1.47	0.77	0.61	0.47	0.48	
29	0.99	0.41	0.49	0.91	3.46	2.66	2.61	1.38	0.70	0.68		0.48	
30	0.91	0.41	0.51	0.76	3.35	2.81	2.61	1.32	0.63	0.65		0.47	
31		0.41		0.66	3.24		2.69		0.62	0.62		0.47	
MEAN	0.76	0.50	0.49	0.71	1.98	3.17	2.27	1.81	0.93	0.61	0.53	0.47	
MAX	2.30	0.77	0.59	1.38	3.75	4.48	2.83	2.62	1.26	0.78	0.59	0.50	4.48
MIN	0.44	0.41	0.41	0.46	0.59	2.24	1.46	1.32	0.62	0.51	0.47	0.44	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.59 M (A.D), AT 15.00 HOURS, ON SEP 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.29 M (A.D)
LEFT BANK ELEVATION 6.32 M (A.D)
RIGHT BANK ELEVATION 6.23 M (A.D), DRAINAGE AREA 1046 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.40	0.00	0.00	0.05	31.50	20.25	16.90	2.36	0.10	0.00	0.00	
2	0.00	0.12	0.00	0.00	0.00	27.80	20.25	13.95	2.24	0.15	0.00	0.00	
3	0.00	0.30	0.00	0.00	0.00	32.50	19.50	11.25	2.18	0.27	0.00	0.00	
4	0.00	0.42	0.00	0.00	0.15	53.10	17.90	9.00	2.00	0.35	0.00	0.00	
5	0.00	0.10	0.00	0.00	0.63	61.50	15.75	8.00	1.75	0.45	0.00	0.00	
6	0.00	0.12	0.00	0.00	0.90	95.70	14.70	7.20	1.65	0.27	0.00	0.00	
7	0.00	0.07	0.00	0.00	2.00	340.80	12.30	6.00	1.50	0.18	0.00	0.00	
8	0.00	0.00	0.00	0.00	4.50	224.35	8.70	5.52	1.45	0.05	0.00	0.00	
9	0.00	0.00	0.00	0.00	5.20	185.45	5.76	5.13	1.45	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	5.28	158.00	4.64	5.28	0.90	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	5.60	133.70	3.62	5.44	0.95	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	5.84	115.60	3.56	5.76	1.30	0.02	0.00	0.00	
13	0.00	0.00	0.00	0.00	6.40	101.40	4.64	5.76	1.10	0.05	0.00	0.00	
14	0.00	0.00	0.00	0.00	7.10	84.00	6.10	5.60	0.80	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	7.90	70.95	6.40	4.99	0.75	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.10	8.70	59.10	6.70	4.57	0.68	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.27	8.30	48.60	6.50	3.87	0.63	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.22	6.40	28.40	7.20	4.01	0.57	0.00	0.00	0.00	
19	0.07	0.00	0.00	0.18	4.85	25.00	7.90	6.10	0.50	0.00	0.00	0.00	
20	0.15	0.00	0.00	0.00	3.74	20.25	8.30	8.20	0.52	0.00	0.00	0.00	
21	0.07	0.00	0.00	0.00	4.50	15.60	8.80	9.90	0.57	0.00	0.00	0.00	
22	0.42	0.00	0.00	0.37	5.92	11.55	11.70	9.30	0.60	0.00	0.00	0.00	
23	12.00	0.00	0.00	2.54	7.90	11.40	17.10	7.50	0.60	0.00	0.00	0.00	
24	8.60	0.00	0.00	3.08	16.20	11.25	20.25	5.52	0.42	0.00	0.00	0.00	
25	2.90	0.00	0.00	3.02	57.90	12.15	21.75	5.20	0.33	0.00	0.00	0.00	
26	1.90	0.00	0.00	2.48	99.50	11.40	21.00	4.43	0.37	0.00	0.00	0.00	
27	1.50	0.00	0.00	1.85	88.50	11.10	19.50	3.80	0.42	0.00	0.00	0.00	
28	1.25	0.00	0.00	0.95	70.95	13.20	18.50	3.62	0.42	0.02	0.00	0.00	
29	0.98	0.00	0.00	0.78	56.70	17.70	16.70	3.08	0.25	0.20		0.00	
30	0.78	0.00	0.00	0.40	45.00	21.25	16.70	2.72	0.07	0.12		0.00	
31		0.00		0.15	36.60		18.30		0.05	0.05		0.00	
TOTAL	30.62	1.53	0.00	16.39	573.21	2034.30	390.97	197.60	29.38	2.28	0.00	0.00	3276.28 CMSDAY
MEAN	1.02	0.05	0.00	0.53	18.49	67.81	12.61	6.59	0.95	0.07	0.00	0.00	8.98 CMS
MAX	12.00	0.42	0.00	3.08	99.50	340.80	21.75	16.90	2.36	0.45	0.00	0.00	340.80 CMS
MIN	0.00	0.00	0.00	0.00	0.00	11.10	3.56	2.72	0.05	0.00	0.00	0.00	0.00 CMS
RUNOFF	2.646	0.132	0.000	1.416	49.525	175.764	33.780	17.073	2.538	0.197	0.000	0.000	283.071 MCM

MOMENTARY PEAK 404.10 CMS, AT 4.59 M (A.D), AT 15.00 HOURS, ON SEP 7, 1982

RUNOFF YIELD 8.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 386.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

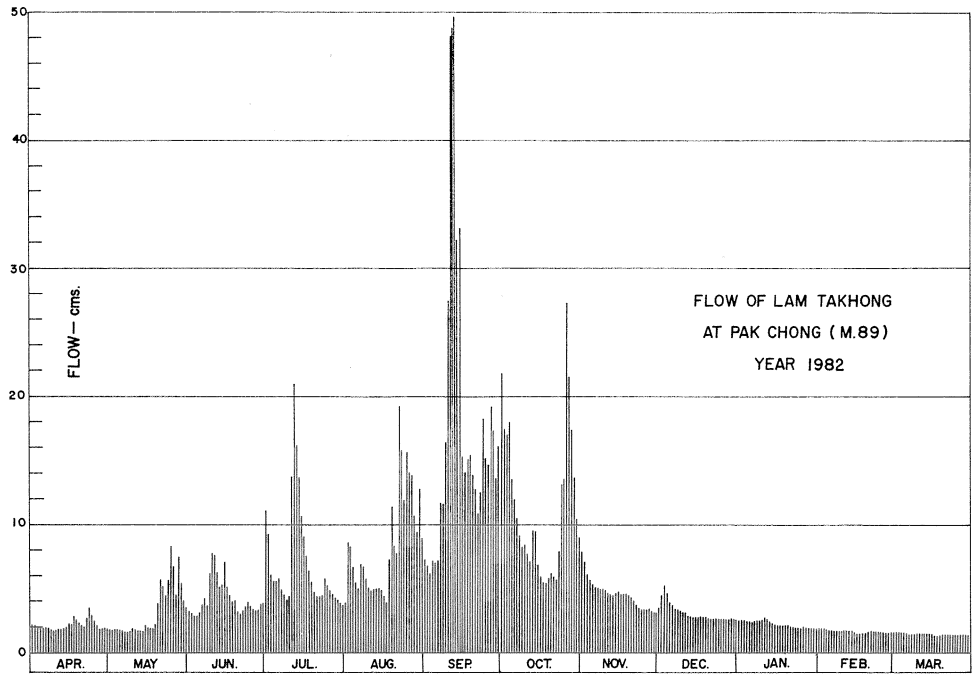
LAM TAKHONG AT PAK CHONG, NAKHON RATCHASIMA (M.89)

LOCATION	LAT. 14°-41'-46" N., LONG. 101°-25'-07" E., ON LEFT BANK AT THE BRIDGE INFRONT OF VACCINE SERUM OFFICE, AMPHOE PAK CHONG, NAKHON RATCHASIMA.
DRAINAGE AREA	699 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.909 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
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 39 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	1.17	1.30	1.73	1.32	1.54	2.24	1.57	1.31	1.23	1.18	1.15	
2	1.19	1.17	1.28	1.59	1.61	1.50	1.96	1.53	1.39	1.23	1.18	1.15	
3	1.18	1.16	1.27	1.47	1.58	1.45	1.99	1.49	1.42	1.23	1.18	1.15	
4	1.18	1.16	1.25	1.43	1.48	1.53	2.06	1.45	1.38	1.23	1.18	1.15	
5	1.18	1.16	1.25	1.44	1.42	1.49	1.85	1.43	1.34	1.22	1.16	1.15	
6	1.18	1.16	1.32	1.45	1.40	1.54	1.73	1.42	1.31	1.22	1.16	1.14	
7	1.18	1.16	1.34	1.40	1.52	1.77	1.68	1.41	1.30	1.23	1.16	1.14	
8	1.16	1.15	1.30	1.37	1.50	1.74	1.62	1.41	1.30	1.23	1.16	1.14	
9	1.16	1.14	1.44	1.35	1.43	2.01	1.58	1.41	1.28	1.24	1.16	1.14	
10	1.17	1.17	1.56	1.33	1.40	2.25	1.60	1.40	1.28	1.24	1.16	1.14	
11	1.17	1.16	1.55	1.92	1.38	3.45	1.54	1.40	1.28	1.25	1.16	1.14	
12	1.18	1.16	1.45	2.20	1.40	3.58	1.52	1.37	1.26	1.24	1.16	1.13	
13	1.18	1.16	1.40	1.96	1.41	2.65	1.65	1.37	1.25	1.22	1.16	1.13	
14	1.18	1.16	1.42	1.76	1.41	2.73	1.65	1.38	1.25	1.21	1.16	1.13	
15	1.21	1.21	1.53	1.69	1.40	2.21	1.53	1.39	1.25	1.21	1.15	1.13	
16	1.19	1.18	1.42	1.62	1.36	1.93	1.47	1.37	1.25	1.21	1.14	1.13	
17	1.26	1.18	1.37	1.52	1.33	1.82	1.43	1.37	1.25	1.20	1.14	1.12	
18	1.23	1.17	1.33	1.48	1.53	1.92	1.42	1.38	1.25	1.20	1.14	1.12	
19	1.22	1.22	1.30	1.42	1.75	1.94	1.44	1.37	1.25	1.20	1.15	1.13	
20	1.21	1.32	1.28	1.38	1.56	1.86	1.48	1.36	1.25	1.20	1.16	1.13	
21	1.18	1.44	1.26	1.36	1.54	1.79	1.45	1.34	1.24	1.19	1.16	1.13	
22	1.24	1.38	1.29	1.36	2.12	1.70	1.43	1.31	1.24	1.19	1.16	1.13	
23	1.30	1.34	1.31	1.36	1.87	1.82	1.52	1.30	1.24	1.19	1.16	1.13	
24	1.26	1.46	1.33	1.45	1.69	2.07	1.82	1.30	1.24	1.19	1.15	1.13	
25	1.23	1.59	1.31	1.42	1.95	1.88	1.85	1.30	1.24	1.19	1.15	1.13	
26	1.18	1.46	1.30	1.40	1.87	1.90	2.49	1.30	1.24	1.19	1.14	1.13	
27	1.17	1.36	1.28	1.36	1.85	2.12	2.09	1.30	1.24	1.19	1.14	1.13	
28	1.17	1.54	1.29	1.36	1.70	1.93	2.00	1.28	1.24	1.19	1.14	1.13	
29	1.17	1.42	1.32	1.34	1.62	1.79	1.83	1.28	1.24	1.18		1.13	
30	1.17	1.33	1.32	1.34	1.81	2.09	1.69	1.28	1.24	1.18		1.13	
31		1.31		1.33	1.63		1.61		1.24	1.18		1.13	
MEAN	1.20	1.26	1.35	1.50	1.58	2.00	1.72	1.38	1.27	1.21	1.16	1.13	
MAX	1.30	1.59	1.56	2.20	2.12	3.58	2.49	1.57	1.42	1.25	1.18	1.15	3.58
MIN	1.16	1.14	1.25	1.33	1.32	1.45	1.42	1.28	1.24	1.18	1.14	1.12	1.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.51 M (A.D), AT 2.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.25 M (A.D)
LEFT BANK ELEVATION 9.15 M (A.D)
RIGHT BANK ELEVATION 8.91 M (A.D), DRAINAGE AREA 699 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.20	1.87	3.50	11.13	3.80	7.42	21.88	7.96	3.65	2.59	1.98	1.65	
2	2.09	1.87	3.24	8.32	8.70	6.70	15.96	7.24	4.85	2.59	1.98	1.65	
3	1.98	1.76	3.11	6.19	8.14	5.85	16.59	6.53	5.34	2.59	1.98	1.65	
4	1.98	1.76	2.85	5.51	6.36	7.24	18.06	5.85	4.70	2.59	1.98	1.65	
5	1.98	1.76	2.85	5.68	5.34	6.53	13.65	5.51	4.10	2.46	1.76	1.65	
6	1.98	1.76	3.80	5.85	5.00	7.42	11.13	5.34	3.65	2.46	1.76	1.54	
7	1.98	1.76	4.10	5.00	7.06	11.97	10.10	5.17	3.50	2.59	1.76	1.54	
8	1.76	1.65	3.50	4.55	6.70	11.34	8.90	5.17	3.50	2.59	1.76	1.54	
9	1.76	1.54	5.68	4.25	5.51	17.01	8.14	5.17	3.24	2.72	1.76	1.54	
10	1.87	1.87	7.78	3.95	5.00	22.10	8.50	5.00	3.24	2.72	1.76	1.54	
11	1.87	1.76	7.60	15.12	4.70	50.55	7.42	5.00	3.24	2.85	1.76	1.54	
12	1.98	1.76	5.85	21.00	5.00	53.88	7.06	4.55	2.98	2.72	1.76	1.43	
13	1.98	1.76	5.00	15.96	5.17	31.20	9.50	4.55	2.85	2.46	1.76	1.43	
14	1.98	1.76	5.34	11.76	5.17	33.12	9.50	4.70	2.85	2.33	1.76	1.43	
15	2.33	2.33	7.24	10.30	5.00	21.22	7.24	4.85	2.85	2.33	1.65	1.43	
16	2.09	1.98	5.34	8.90	4.40	15.33	6.19	4.55	2.85	2.33	1.54	1.43	
17	2.98	1.98	4.55	7.06	3.95	13.02	5.51	4.55	2.85	2.20	1.54	1.32	
18	2.59	1.87	3.95	6.36	7.24	15.12	5.34	4.70	2.85	2.20	1.54	1.32	
19	2.46	2.46	3.50	5.34	11.55	15.54	5.68	4.55	2.85	2.20	1.65	1.43	
20	2.33	3.80	3.24	4.70	7.78	13.86	6.36	4.40	2.85	2.20	1.76	1.43	
21	1.98	5.68	2.98	4.40	7.42	12.39	5.85	4.10	2.72	2.09	1.76	1.43	
22	2.72	4.70	3.37	4.40	19.32	10.50	5.51	3.65	2.72	2.09	1.76	1.43	
23	3.50	4.10	3.65	4.40	14.07	13.02	7.06	3.50	2.72	2.09	1.76	1.43	
24	2.98	6.02	3.95	5.85	10.30	18.27	13.02	3.50	2.72	2.09	1.65	1.43	
25	2.59	8.32	3.65	5.34	15.75	14.28	13.65	3.50	2.72	2.09	1.65	1.43	
26	1.98	6.02	3.50	5.00	14.07	14.70	27.38	3.50	2.72	2.09	1.54	1.43	
27	1.87	4.40	3.24	4.40	13.65	19.32	18.69	3.50	2.72	2.09	1.54	1.43	
28	1.87	7.42	3.37	4.40	10.50	15.33	16.80	3.24	2.72	2.09	1.54	1.43	
29	1.87	5.34	3.80	4.10	8.90	12.39	13.23	3.24	2.72	1.98		1.43	
30	1.87	3.95	3.80	4.10	12.81	18.69	10.30	3.24	2.72	1.98		1.43	
31		3.65		3.95	9.10		8.70		2.72	1.98		1.43	
TOTAL	65.40	98.66	127.33	217.27	257.46	515.31	342.90	140.31	98.71	72.38	48.40	45.87	2030.00 CMSDAY
MEAN	2.18	3.18	4.24	7.01	8.31	17.18	11.06	4.68	3.18	2.33	1.73	1.48	5.56 CMS
MAX	3.50	8.32	7.78	21.00	19.32	53.88	27.38	7.96	5.34	2.85	1.98	1.65	53.88 CMS
MIN	1.76	1.54	2.85	3.95	3.80	5.85	5.34	3.24	2.72	1.98	1.54	1.32	1.32 CMS
RUNOFF	5.651	8.524	11.001	18.772	22.245	44.523	29.627	12.123	8.529	6.254	4.182	3.963	175.392 MCM

MOMENTARY PEAK 78.27 CMS, AT 4.51 M (A.D), AT 2.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 7.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 111.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

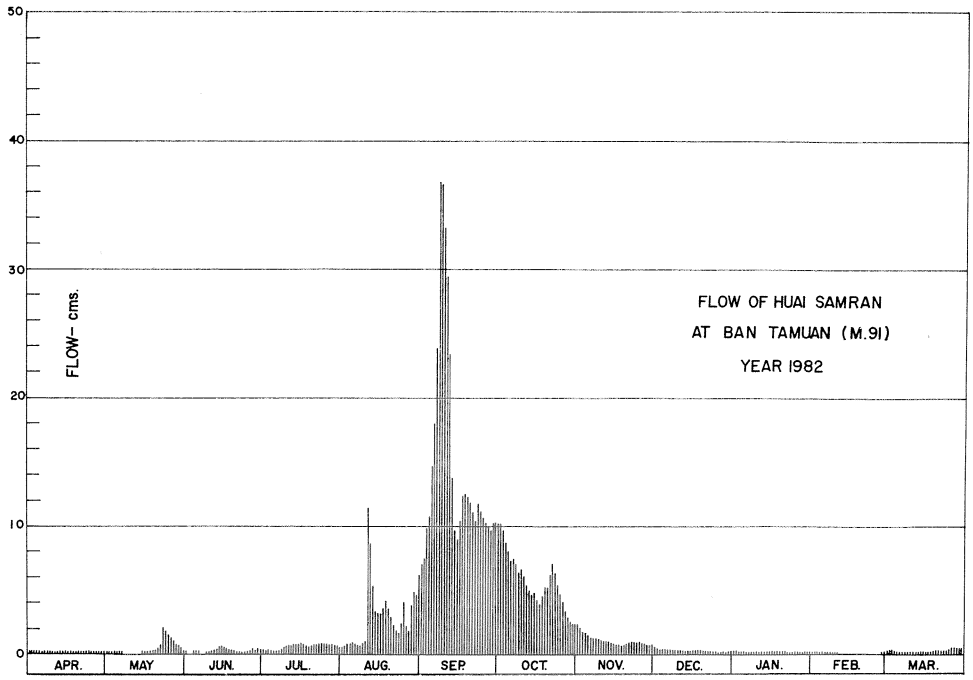
HUAI SAMRAN AT BAN TAMUAN, SI SA KET (M.91)

LOCATION	LAT. 14°-29'-48" N., LONG. 104°-03'-29" E., ON RIGHT BANK ABOUT 15 KILOMETERS FROM THE HIGHWAY AT BAN TAMUAN, TAMBON LALOM, AMPHOE KHUKHAN, SI SA KET.
DRAINAGE AREA	128 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 1.50 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+8.051 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 - 1978.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 - 1978.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE IN 1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.53	0.46	0.40	0.72	0.84	1.83	2.42	1.39	0.83	0.73	0.47	0.75	
2	0.52	0.44	0.40	0.70	0.88	2.16	2.43	1.36	0.81	0.72	0.50	0.74	
3	0.52	0.44	0.37	0.72	0.94	2.38	2.34	1.31	0.79	0.72	0.48	0.74	
4	0.51	0.43	0.42	0.71	0.99	2.48	2.26	1.26	0.79	0.71	0.48	0.72	
5	0.51	0.42	0.47	0.66	1.03	2.83	2.18	1.20	0.78	0.71	0.47	0.72	
6	0.51	0.42	0.42	0.61	0.95	3.23	2.10	1.14	0.76	0.70	0.43	0.70	
7	0.51	0.40	0.36	0.64	0.94	3.74	2.15	1.12	0.75	0.68	0.44	0.70	
8	0.50	0.45	0.30	0.73	0.87	4.50	2.06	1.15	0.75	0.67	0.45	0.70	
9	0.50	0.46	0.34	0.83	0.96	4.49	2.00	1.12	0.74	0.67	0.42	0.69	
10	0.50	0.44	0.46	0.88	0.91	4.26	2.06	1.10	0.74	0.67	0.41	0.67	
11	0.53	0.40	0.53	0.92	2.55	3.95	1.96	1.08	0.72	0.66	0.40	0.66	
12	0.53	0.40	0.64	0.89	2.39	3.50	1.91	1.06	0.71	0.66	0.40	0.66	
13	0.52	0.39	0.70	0.92	1.85	2.42	1.84	1.06	0.69	0.66	0.39	0.64	
14	0.52	0.36	0.83	0.89	1.54	2.35	1.75	1.02	0.68	0.65	0.39	0.64	
15	0.52	0.37	0.84	0.94	1.59	2.27	1.81	1.00	0.67	0.64	0.38	0.63	
16	0.51	0.42	0.80	0.97	1.55	2.54	1.70	0.99	0.66	0.64	0.38	0.67	
17	0.51	0.48	0.76	0.93	1.62	2.63	1.68	0.97	0.67	0.64	0.38	0.67	
18	0.50	0.56	0.74	0.87	1.72	2.66	1.78	0.97	0.65	0.64	0.37	0.67	
19	0.49	0.62	0.71	0.81	1.61	2.62	1.86	0.94	0.66	0.62	0.36	0.71	
20	0.49	0.71	0.65	0.87	1.51	2.55	1.85	0.93	0.66	0.62	0.35	0.74	
21	0.48	0.82	0.62	0.98	1.37	2.47	1.93	1.02	0.67	0.60	0.35	0.77	
22	0.48	0.83	0.60	0.93	1.27	2.41	2.11	1.04	0.65	0.60	0.34	0.78	
23	0.47	1.34	0.54	0.92	1.21	2.58	2.00	1.04	0.65	0.60	0.36	0.78	
24	0.47	1.26	0.53	0.96	1.36	2.51	1.88	1.02	0.64	0.59	0.35	0.79	
25	0.47	1.24	0.58	0.98	1.70	2.46	1.83	1.05	0.63	0.58	0.35	0.83	
26	0.46	1.18	0.68	0.97	1.40	2.43	1.73	1.04	0.63	0.58	0.34	0.86	
27	0.45	1.10	0.75	0.91	1.25	2.38	1.62	0.98	0.62	0.57	0.34	0.87	
28	0.45	0.98	0.66	0.95	1.58	2.35	1.52	0.95	0.61	0.57	0.35	0.88	
29	0.43	0.90	0.74	0.92	1.82	2.43	1.43	0.94	0.60	0.57		0.89	
30	0.42	0.86	0.69	0.91	1.72	2.42	1.37	0.99	0.62	0.56		0.86	
31		0.78		0.86	1.99		1.44		0.62	0.54		0.85	
MEAN	0.49	0.66	0.58	0.85	1.42	2.79	1.90	1.07	0.69	0.64	0.40	0.74	
MAX	0.53	1.34	0.84	0.98	2.55	4.50	2.43	1.39	0.83	0.73	0.50	0.89	4.50
MIN	0.42	0.36	0.30	0.61	0.84	1.83	1.37	0.93	0.60	0.54	0.34	0.63	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.64 M (A.D), AT 18.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 7.29 M (A.D)
RIGHT BANK ELEVATION 7.59 M (A.D), DRAINAGE AREA 128 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.03	0.00	0.38	0.58	4.91	10.10	2.26	0.56	0.40	0.04	0.42	
2	0.08	0.02	0.00	0.35	0.66	7.54	10.20	2.14	0.52	0.38	0.05	0.41	
3	0.08	0.02	0.00	0.38	0.78	9.70	9.30	1.94	0.49	0.38	0.04	0.41	
4	0.06	0.02	0.01	0.36	0.88	10.70	8.50	1.74	0.49	0.36	0.04	0.38	
5	0.06	0.01	0.04	0.29	0.99	14.33	7.72	1.50	0.47	0.36	0.04	0.38	
6	0.06	0.01	0.01	0.22	0.80	18.76	7.00	1.32	0.44	0.35	0.02	0.35	
7	0.06	0.00	0.00	0.26	0.78	25.36	7.45	1.26	0.42	0.32	0.02	0.35	
8	0.05	0.02	0.00	0.40	0.64	36.70	6.68	1.35	0.42	0.31	0.02	0.35	
9	0.05	0.03	0.00	0.56	0.82	36.55	6.20	1.26	0.41	0.31	0.01	0.33	
10	0.05	0.02	0.03	0.66	0.72	33.10	6.68	1.20	0.41	0.31	0.00	0.31	
11	0.09	0.00	0.09	0.74	11.40	28.45	5.88	1.14	0.38	0.29	0.00	0.29	
12	0.09	0.00	0.26	0.68	9.80	22.10	5.48	1.08	0.36	0.29	0.00	0.29	
13	0.08	0.00	0.35	0.74	5.05	10.10	4.98	1.08	0.33	0.29	0.00	0.26	
14	0.08	0.00	0.56	0.68	3.00	9.40	4.35	0.96	0.32	0.27	0.00	0.26	
15	0.08	0.00	0.58	0.78	3.25	8.60	4.77	0.90	0.31	0.26	0.00	0.24	
16	0.06	0.01	0.50	0.84	3.05	11.30	4.00	0.88	0.29	0.26	0.00	0.31	
17	0.06	0.04	0.44	0.76	3.44	12.20	3.86	0.84	0.31	0.26	0.00	0.31	
18	0.05	0.14	0.41	0.64	4.14	12.50	4.56	0.84	0.27	0.26	0.00	0.31	
19	0.05	0.23	0.36	0.52	3.37	12.10	5.12	0.78	0.29	0.23	0.00	0.36	
20	0.05	0.36	0.27	0.64	2.85	11.40	5.05	0.76	0.29	0.23	0.00	0.41	
21	0.04	0.54	0.23	0.86	2.18	10.60	5.64	0.96	0.31	0.20	0.00	0.45	
22	0.04	0.56	0.20	0.76	1.78	10.00	7.09	1.02	0.27	0.20	0.00	0.47	
23	0.04	2.06	0.11	0.74	1.54	11.70	6.20	1.02	0.27	0.20	0.00	0.47	
24	0.04	1.74	0.09	0.82	2.14	11.00	5.26	0.96	0.26	0.18	0.00	0.49	
25	0.04	1.66	0.17	0.86	4.00	10.50	4.91	1.05	0.24	0.17	0.00	0.56	
26	0.03	1.44	0.32	0.84	2.30	10.20	4.21	1.02	0.24	0.17	0.00	0.62	
27	0.02	1.20	0.42	0.72	1.70	9.70	3.44	0.86	0.23	0.15	0.00	0.64	
28	0.02	0.86	0.29	0.80	3.20	9.40	2.90	0.80	0.22	0.15	0.00	0.66	
29	0.02	0.70	0.41	0.74	4.84	10.20	2.45	0.78	0.20	0.15		0.68	
30	0.01	0.62	0.33	0.72	4.14	10.10	2.18	0.88	0.23	0.14		0.62	
31		0.47		0.62	6.12		2.50		0.23	0.11		0.60	
TOTAL	1.63	12.81	6.48	19.36	90.94	439.20	174.66	34.58	10.48	7.94	0.28	12.99	811.35 CMSDAY
MEAN	0.05	0.41	0.22	0.62	2.93	14.64	5.63	1.15	0.34	0.26	0.01	0.42	2.22 CMS
MAX	0.09	2.06	0.58	0.86	11.40	36.70	10.20	2.26	0.56	0.40	0.05	0.68	36.70 CMS
MIN	0.01	0.00	0.00	0.22	0.58	4.91	2.18	0.76	0.20	0.11	0.00	0.24	0.00 CMS
RUNOFF	0.141	1.107	0.560	1.673	7.857	37.947	15.091	2.988	0.905	0.686	0.024	1.122	70.101 MCM

MOMENTARY PEAK 38.80 CMS, AT 4.64 M (A.D), AT 18.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 17.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 303.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

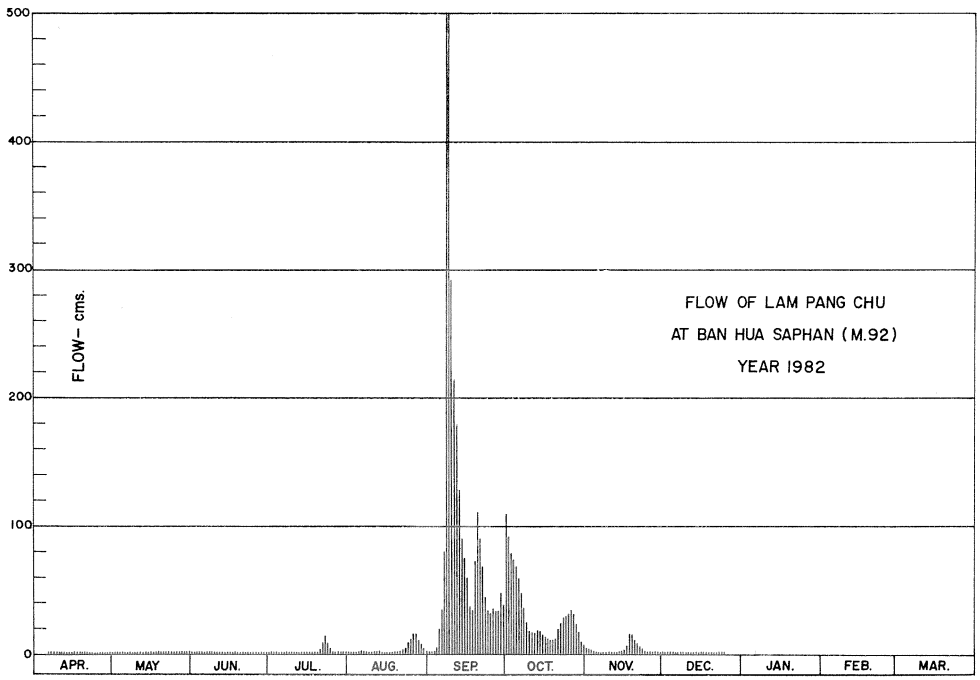
LAM PHANG CHU AT BAN HUA SAPHAN, BURI RAM (M.92)

LOCATION	LAT. 15°-32'-57" N., LONG. 103°-04'-20" E., ON RIGHT BANK EAST OF WAT THEP RANG SAN AT BAN HUA SAPHAN, AMPHOE PHUTTHAISONG, BURI RAM.
DRAINAGE AREA	1,094 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 80 METERS FROM THE GAGE SITE.
ELEVATION	+7.958 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +3.58 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 147 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.89	1.38	1.38	1.40	1.34	1.82	4.47	2.04	1.48	1.06	1.03	0.95	
2	0.95	1.38	1.43	1.39	1.33	1.74	4.29	1.95	1.45	1.05	1.03	0.94	
3	1.01	1.38	1.40	1.39	1.32	1.72	4.16	1.85	1.42	1.05	1.04	0.93	
4	1.03	1.37	1.37	1.39	1.43	1.85	4.14	1.79	1.41	1.05	1.04	0.93	
5	1.11	1.36	1.35	1.42	1.58	2.62	4.03	1.74	1.40	1.04	1.03	0.93	
6	1.14	1.34	1.35	1.42	1.81	3.34	3.86	1.68	1.38	1.05	1.02	0.92	
7	1.15	1.31	1.49	1.40	1.79	4.30	3.65	1.61	1.35	1.04	1.04	0.92	
8	1.16	1.30	1.51	1.39	1.73	5.50	3.29	1.59	1.33	1.03	1.06	0.92	
9	1.16	1.29	1.50	1.38	1.69	5.54	2.93	1.58	1.31	1.03	1.04	0.91	
10	1.14	1.29	1.50	1.39	1.68	5.15	2.74	1.60	1.29	1.04	1.03	0.90	
11	1.13	1.34	1.55	1.40	1.67	4.95	2.54	1.59	1.28	1.05	1.02	0.90	
12	1.35	1.34	1.53	1.40	1.74	4.77	2.62	1.55	1.27	1.05	1.02	0.89	
13	1.35	1.33	1.50	1.40	1.72	4.56	2.83	1.52	1.25	1.05	1.02	0.88	
14	1.29	1.32	1.48	1.40	1.66	4.30	2.79	1.54	1.23	1.04	1.02	0.87	
15	1.28	1.31	1.46	1.41	1.57	4.01	2.62	1.63	1.21	1.03	1.03	0.87	
16	1.28	1.30	1.43	1.42	1.50	3.65	2.50	1.92	1.20	1.03	1.03	0.86	
17	1.28	1.29	1.39	1.41	1.45	3.26	2.42	2.23	1.19	1.07	1.02	0.85	
18	1.26	1.29	1.37	1.41	1.40	3.36	2.36	2.61	1.23	1.08	1.02	0.84	
19	1.41	1.29	1.33	1.47	1.38	4.32	2.37	2.62	1.22	1.10	1.01	0.84	
20	1.42	1.28	1.31	1.57	1.51	4.48	2.50	2.44	1.19	1.09	1.00	0.83	
21	1.41	1.24	1.31	1.68	1.66	4.23	2.77	2.29	1.18	1.08	0.98	0.83	
22	1.40	1.23	1.28	2.32	1.89	3.94	3.01	2.15	1.15	1.07	0.97	0.82	
23	1.39	1.22	1.28	2.59	2.05	3.57	3.15	2.02	1.14	1.05	0.97	0.81	
24	1.38	1.22	1.28	2.28	2.23	3.22	3.14	1.92	1.13	1.04	0.96	0.81	
25	1.38	1.23	1.32	1.94	2.44	3.23	3.16	1.83	1.13	1.03	0.96	0.80	
26	1.38	1.32	1.37	1.75	2.68	3.36	3.30	1.74	1.11	1.03	0.95	0.79	
27	1.36	1.32	1.40	1.63	2.67	3.31	3.27	1.68	1.10	1.02	0.95	0.78	
28	1.38	1.40	1.41	1.54	2.46	3.31	3.08	1.63	1.09	1.01	0.95	0.77	
29	1.38	1.38	1.42	1.46	2.22	3.68	2.73	1.60	1.08	1.01		0.77	
30	1.38	1.36	1.43	1.39	2.04	3.36	2.39	1.53	1.07	1.01		0.76	
31		1.40		1.36	1.92		2.14		1.06	1.02		0.76	
MEAN	1.25	1.32	1.40	1.55	1.79	3.68	3.07	1.85	1.24	1.05	1.01	0.86	
MAX	1.42	1.40	1.55	2.59	2.68	5.54	4.47	2.62	1.48	1.10	1.06	0.95	5.54
MIN	0.89	1.22	1.28	1.36	1.32	1.72	2.14	1.52	1.06	1.01	0.95	0.76	0.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.77 M (A.D), AT 21.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.92 M (A.D)
LEFT BANK ELEVATION 3.58 M (A.D)
RIGHT BANK ELEVATION 5.33 M (A.D), DRAINAGE AREA 1094 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.64	0.64	0.70	0.52	3.20	110.80	5.60	0.94	0.00	0.00	0.00	
2	0.00	0.64	0.79	0.67	0.49	2.40	88.00	4.50	0.85	0.00	0.00	0.00	
3	0.00	0.64	0.70	0.67	0.46	2.20	75.80	3.50	0.76	0.00	0.00	0.00	
4	0.00	0.61	0.61	0.67	0.79	3.50	74.20	2.90	0.73	0.00	0.00	0.00	
5	0.02	0.58	0.55	0.76	1.40	16.40	66.80	2.40	0.70	0.00	0.00	0.00	
6	0.08	0.52	0.55	0.76	3.10	35.60	57.00	1.90	0.64	0.00	0.00	0.00	
7	0.10	0.43	0.97	0.70	2.90	89.00	48.00	1.55	0.55	0.00	0.00	0.00	
8	0.12	0.40	1.05	0.67	2.30	540.00	33.70	1.45	0.49	0.00	0.00	0.00	
9	0.12	0.38	1.00	0.64	1.95	590.40	22.90	1.40	0.43	0.00	0.00	0.00	
10	0.08	0.38	1.00	0.67	1.90	293.00	18.80	1.50	0.38	0.00	0.00	0.00	
11	0.06	0.52	1.25	0.70	1.85	216.50	14.80	1.45	0.36	0.00	0.00	0.00	
12	0.55	0.52	1.15	0.70	2.40	168.10	16.40	1.25	0.34	0.00	0.00	0.00	
13	0.55	0.49	1.00	0.70	2.20	125.20	20.60	1.10	0.30	0.00	0.00	0.00	
14	0.38	0.46	0.94	0.70	1.80	89.00	19.80	1.20	0.26	0.00	0.00	0.00	
15	0.36	0.43	0.88	0.73	1.35	65.60	16.40	1.65	0.22	0.00	0.00	0.00	
16	0.36	0.40	0.79	0.76	1.00	48.00	14.00	4.20	0.20	0.00	0.00	0.00	
17	0.36	0.38	0.67	0.73	0.85	32.80	12.40	8.60	0.18	0.00	0.00	0.00	
18	0.32	0.38	0.61	0.73	0.70	36.40	11.20	16.20	0.26	0.00	0.00	0.00	
19	0.73	0.38	0.49	0.91	0.64	91.40	11.40	16.40	0.24	0.00	0.00	0.00	
20	0.76	0.36	0.43	1.35	1.05	112.20	14.00	12.80	0.18	0.00	0.00	0.00	
21	0.73	0.28	0.43	1.90	1.80	82.00	19.40	9.80	0.16	0.00	0.00	0.00	
22	0.70	0.26	0.36	10.40	3.90	61.40	25.30	7.25	0.10	0.00	0.00	0.00	
23	0.67	0.24	0.36	15.80	5.75	44.80	29.50	5.30	0.08	0.00	0.00	0.00	
24	0.64	0.24	0.36	9.60	8.60	31.60	29.20	4.20	0.06	0.00	0.00	0.00	
25	0.64	0.26	0.46	4.40	12.80	31.90	29.80	3.30	0.06	0.00	0.00	0.00	
26	0.64	0.46	0.61	2.50	17.60	36.40	34.00	2.40	0.02	0.00	0.00	0.00	
27	0.58	0.46	0.70	1.65	17.40	34.40	33.10	1.90	0.00	0.00	0.00	0.00	
28	0.64	0.70	0.73	1.20	13.20	34.40	27.40	1.65	0.00	0.00	0.00	0.00	
29	0.64	0.64	0.76	0.88	8.40	49.20	18.60	1.50	0.00	0.00		0.00	
30	0.64	0.58	0.79	0.67	5.60	36.40	11.80	1.15	0.00	0.00		0.00	
31		0.70		0.58	4.20		7.10		0.00	0.00		0.00	
TOTAL	11.47	14.36	21.63	64.50	128.90	3003.40	1012.20	130.00	9.49	0.00	0.00	0.00	4395.95 CMSDAY
MEAN	0.38	0.46	0.72	2.08	4.16	100.11	32.65	4.33	0.31	0.00	0.00	0.00	12.04 CMS
MAX	0.76	0.70	1.25	15.80	17.60	590.40	110.80	16.40	0.94	0.00	0.00	0.00	590.40 CMS
MIN	0.00	0.24	0.36	0.58	0.46	2.20	7.10	1.10	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.991	1.241	1.869	5.573	11.137	259.494	87.454	11.232	0.820	0.000	0.000	0.000	379.810 MCM

MOMENTARY PEAK 896.80 CMS, AT 5.77 M (A.D), AT 21.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 11.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 819.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

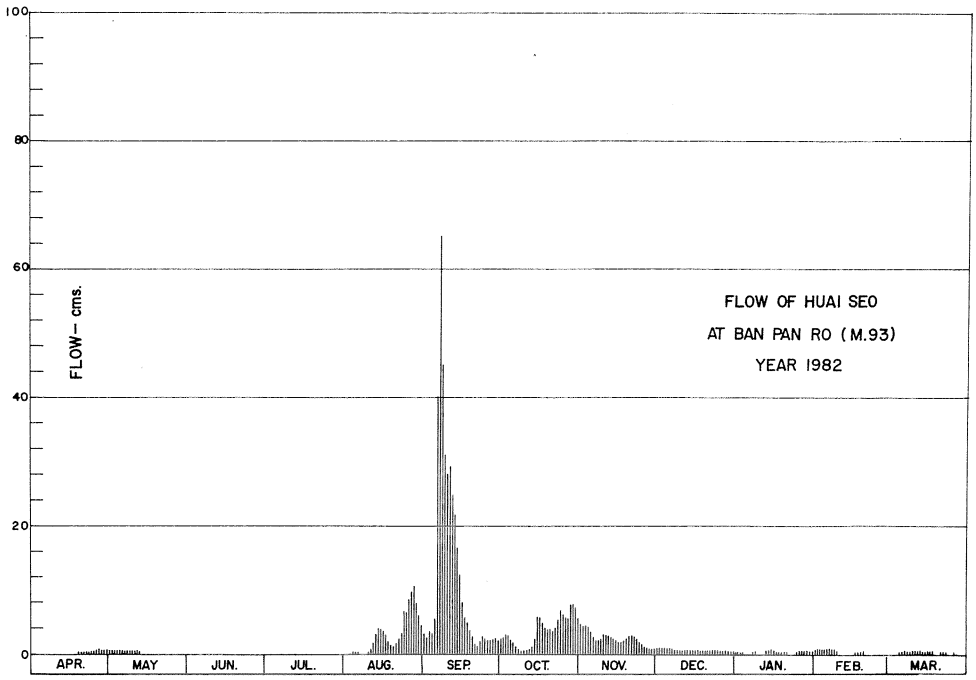
HUAI SEO AT BAN PAN RO, BURI RAM (M.93)

LOCATION	LAT. 14°-28'-24" N., LONG. 103°-06'-20" E., ON RIGHT BANK ABOUT 100 METERS FROM PRAKHON CHAI-SURIN HIGHWAY AT BAN PAN RO, AMPHOE BAN KRUAT, BURI RAM.
DRAINAGE AREA	329 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+4.571 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +3.06 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 137 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.39	0.12	0.08	0.07	0.95	0.86	1.33	0.56	0.36	0.49	0.16	
2	0.18	0.38	0.13	0.10	0.08	0.85	1.00	1.26	0.52	0.35	0.47	0.17	
3	0.16	0.37	0.13	0.08	0.10	1.07	1.02	1.27	0.50	0.33	0.48	0.16	
4	0.19	0.39	0.13	0.07	0.28	1.03	0.94	1.24	0.49	0.22	0.47	0.17	
5	0.20	0.39	0.13	0.05	0.23	1.33	0.86	1.08	0.48	0.18	0.48	0.25	
6	0.14	0.39	0.08	0.05	0.22	3.66	0.73	0.93	0.57	0.17	0.48	0.33	
7	0.17	0.39	0.14	0.04	0.20	3.71	0.55	0.83	0.47	0.17	0.50	0.36	
8	0.18	0.40	0.11	0.03	0.19	3.44	0.45	0.83	0.49	0.26	0.48	0.36	
9	0.19	0.39	0.11	0.04	0.19	3.12	0.40	0.90	0.47	0.27	0.52	0.39	
10	0.18	0.38	0.14	0.14	0.25	3.09	0.41	1.02	0.44	0.19	0.28	0.42	
11	0.12	0.38	0.11	0.11	0.43	3.14	0.39	1.00	0.46	0.20	0.20	0.43	
12	0.10	0.37	0.11	0.10	0.80	2.97	0.48	1.01	0.46	0.32	0.18	0.41	
13	0.11	0.28	0.14	0.11	1.05	2.67	0.53	0.95	0.45	0.38	0.10	0.39	
14	0.16	0.18	0.11	0.10	1.21	2.45	0.95	0.89	0.45	0.40	0.10	0.37	
15	0.24	0.16	0.08	0.09	1.12	2.08	1.49	0.84	0.44	0.42	0.11	0.38	
16	0.18	0.18	0.07	0.07	1.08	1.73	1.46	0.75	0.43	0.40	0.21	0.37	
17	0.16	0.16	0.09	0.09	0.92	1.42	1.27	0.78	0.41	0.27	0.23	0.37	
18	0.17	0.16	0.09	0.08	0.74	1.26	1.12	0.84	0.40	0.23	0.31	0.46	
19	0.22	0.15	0.12	0.09	0.65	1.05	1.11	0.90	0.39	0.23	0.33	0.17	
20	0.25	0.13	0.11	0.10	0.61	0.80	1.15	1.02	0.39	0.21	0.32	0.19	
21	0.25	0.15	0.10	0.12	0.76	0.70	1.05	1.03	0.38	0.25	0.18	0.21	
22	0.25	0.10	0.10	0.13	0.87	0.61	1.15	0.96	0.37	0.14	0.17	0.22	
23	0.24	0.09	0.09	0.12	1.04	0.83	1.39	0.93	0.38	0.15	0.16	0.21	
24	0.42	0.09	0.07	0.10	1.62	1.01	1.61	0.82	0.38	0.15	0.16	0.20	
25	0.43	0.10	0.07	0.10	1.57	0.83	1.53	0.71	0.37	0.23	0.16	0.20	
26	0.56	0.09	0.06	0.07	1.89	0.83	1.46	0.61	0.36	0.29	0.17	0.21	
27	0.50	0.13	0.07	0.08	1.98	0.82	1.41	0.58	0.36	0.32	0.17	0.20	
28	0.45	0.12	0.10	0.07	2.04	0.83	1.73	0.56	0.35	0.32	0.19	0.20	
29	0.43	0.13	0.08	0.07	1.71	0.90	1.73	0.53	0.34	0.31		0.18	
30	0.41	0.13	0.07	0.07	1.40	0.82	1.57	0.50	0.35	0.29		0.18	
31		0.12		0.07	1.14		1.39		0.37	0.31		0.17	
MEAN	0.25	0.23	0.10	0.08	0.85	1.67	1.07	0.90	0.43	0.27	0.29	0.27	
MAX	0.56	0.40	0.14	0.14	2.04	3.71	1.73	1.33	0.57	0.42	0.52	0.46	3.71
MIN	0.10	0.09	0.06	0.03	0.07	0.61	0.39	0.50	0.34	0.14	0.10	0.16	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.04 M (A.D), AT 12.00 HOURS, ON SEP 6, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.22 M (A.D)
LEFT BANK ELEVATION 3.06 M (A.D)
RIGHT BANK ELEVATION 3.64 M (A.D), DRAINAGE AREA 329 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.38	0.00	0.00	0.00	2.55	2.10	4.78	0.88	0.32	0.67	0.00	
2	0.00	0.36	0.00	0.00	0.00	2.05	2.80	4.36	0.76	0.30	0.61	0.00	
3	0.00	0.34	0.00	0.00	0.00	3.22	2.92	4.42	0.70	0.26	0.64	0.00	
4	0.00	0.38	0.00	0.00	0.16	2.98	2.50	4.24	0.67	0.04	0.61	0.00	
5	0.00	0.38	0.00	0.00	0.06	4.78	2.10	3.28	0.64	0.00	0.64	0.10	
6	0.00	0.38	0.00	0.00	0.04	59.76	1.52	2.45	0.91	0.00	0.64	0.26	
7	0.00	0.38	0.00	0.00	0.00	65.04	0.85	1.95	0.61	0.00	0.70	0.32	
8	0.00	0.40	0.00	0.00	0.00	42.40	0.55	1.95	0.67	0.12	0.64	0.32	
9	0.00	0.38	0.00	0.00	0.00	28.72	0.40	2.30	0.61	0.14	0.76	0.38	
10	0.00	0.36	0.00	0.00	0.10	27.84	0.43	2.92	0.52	0.00	0.16	0.46	
11	0.00	0.36	0.00	0.00	0.49	29.34	0.38	2.80	0.58	0.00	0.00	0.49	
12	0.00	0.34	0.00	0.00	1.80	24.78	0.64	2.86	0.58	0.24	0.00	0.43	
13	0.00	0.16	0.00	0.00	3.10	18.69	0.79	2.55	0.55	0.36	0.00	0.38	
14	0.00	0.00	0.00	0.00	4.06	15.20	2.55	2.25	0.55	0.40	0.00	0.34	
15	0.08	0.00	0.00	0.00	3.52	10.70	5.74	2.00	0.52	0.46	0.00	0.36	
16	0.00	0.00	0.00	0.00	3.28	7.44	5.56	1.60	0.49	0.40	0.02	0.34	
17	0.00	0.00	0.00	0.00	2.40	5.32	4.42	1.72	0.43	0.14	0.06	0.34	
18	0.00	0.00	0.00	0.00	1.56	4.36	3.52	2.00	0.40	0.06	0.22	0.58	
19	0.04	0.00	0.00	0.00	1.20	3.10	3.46	2.30	0.38	0.06	0.26	0.00	
20	0.10	0.00	0.00	0.00	1.04	1.80	3.70	2.92	0.38	0.02	0.24	0.00	
21	0.10	0.00	0.00	0.00	1.64	1.40	3.10	2.98	0.36	0.10	0.00	0.02	
22	0.10	0.00	0.00	0.00	2.15	1.04	3.70	2.60	0.34	0.00	0.00	0.04	
23	0.08	0.00	0.00	0.00	3.04	1.95	5.14	2.45	0.36	0.00	0.00	0.02	
24	0.46	0.00	0.00	0.00	6.64	2.86	6.57	1.90	0.36	0.00	0.00	0.00	
25	0.49	0.00	0.00	0.00	6.29	1.95	6.01	1.44	0.34	0.06	0.00	0.00	
26	0.88	0.00	0.00	0.00	8.81	1.95	5.56	1.04	0.32	0.18	0.00	0.02	
27	0.70	0.00	0.00	0.00	9.70	1.90	5.26	0.94	0.32	0.24	0.00	0.00	
28	0.55	0.00	0.00	0.00	10.30	1.95	7.44	0.88	0.30	0.24	0.00	0.00	
29	0.49	0.00	0.00	0.00	7.28	2.30	7.44	0.79	0.28	0.22		0.00	
30	0.43	0.00	0.00	0.00	5.20	1.90	6.29	0.70	0.30	0.18		0.00	
31		0.00		0.00	3.64		5.14		0.34	0.22		0.00	
TOTAL	4.50	4.60	0.00	0.00	87.50	379.27	108.58	71.37	15.45	4.76	6.87	5.20	688.10 CMSDAY
MEAN	0.15	0.15	0.00	0.00	2.82	12.64	3.50	2.38	0.50	0.15	0.25	0.17	1.89 CMS
MAX	0.88	0.40	0.00	0.00	10.30	65.04	7.44	4.78	0.91	0.46	0.76	0.58	65.04 CMS
MIN	0.00	0.00	0.00	0.00	0.00	1.04	0.38	0.70	0.28	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.389	0.397	0.000	0.000	7.560	32.769	9.381	6.166	1.335	0.411	0.594	0.449	59.452 MCM

MOMENTARY PEAK 128.80 CMS, AT 4.04 M (A.D), AT 12.00 HOURS, ON SEP 6, 1982

RUNOFF YIELD 5.73 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 391.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

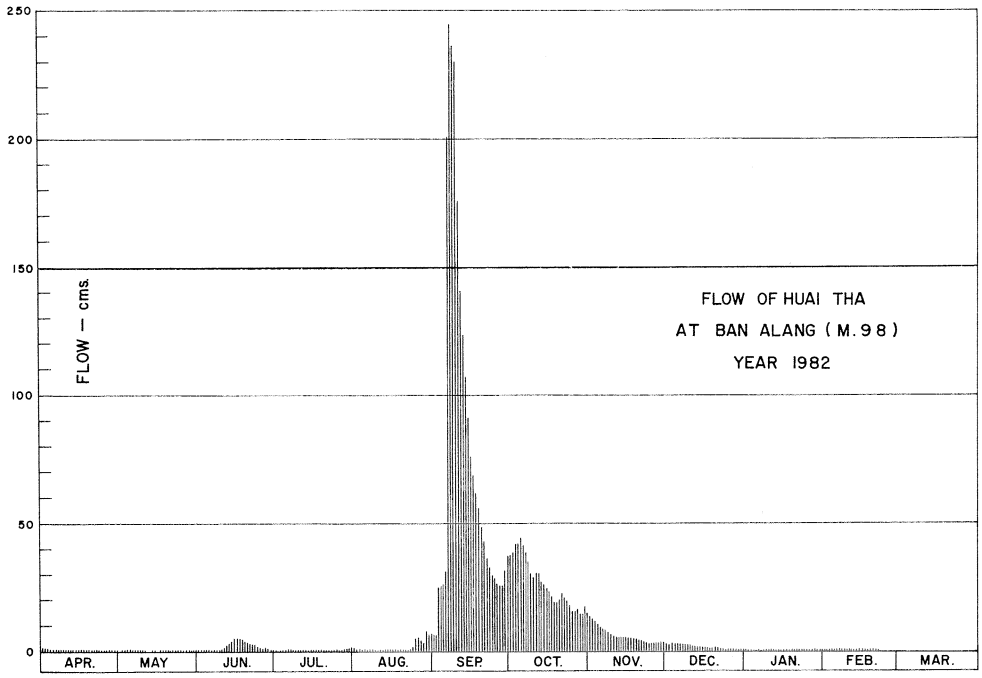
HUAI THA AT BAN ALANG, SI SA KET (M.98)

LOCATION	LAT. 14°-52'-39" N., LONG. 104°-26-16" E., ON LEFT BANK AT THE BRIDGE OF SI SA KET-KANTHARALAK HIGHWAY NEAR GUIDEPOST 27+734, TAMBON TAM YAE, AMPHOE MUANG, SI SA KET.
DRAINAGE AREA	1,092 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.061 M.(A.D.)
GAGE READING FREQUENCY	3- 5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 - 1981.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 105 DISCHARGE MEASUREMENTS MADE DURING 1979 -1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.66	0.09	0.13	0.41	0.61	1.34	3.65	2.01	0.97	0.41	0.15	0.10	
2	0.69	0.11	0.13	0.34	0.54	1.37	3.73	1.94	0.95	0.41	0.13	0.10	
3	0.71	0.11	0.13	0.32	0.50	2.77	3.90	1.80	1.00	0.40	0.13	0.10	
4	0.15	0.12	0.13	0.32	0.52	2.82	3.90	1.72	1.00	0.39	0.13	0.09	
5	0.14	0.11	0.13	0.36	0.50	2.87	4.04	1.62	0.99	0.37	0.13	0.09	
6	0.13	0.11	0.13	0.41	0.46	3.52	3.93	1.58	0.98	0.36	0.13	0.09	
7	0.13	0.11	0.15	0.38	0.44	7.68	3.74	1.49	0.94	0.35	0.13	0.09	
8	0.13	0.11	0.29	0.36	0.45	8.01	3.45	1.43	0.91	0.38	0.12	0.09	
9	0.14	0.13	0.20	0.29	0.46	7.92	3.17	1.38	0.94	0.36	0.11	0.09	
10	0.12	0.13	0.33	0.24	0.44	7.68	3.02	1.31	0.93	0.33	0.12	0.09	
11	0.12	0.11	0.62	0.23	0.43	7.49	3.19	1.29	0.90	0.32	0.12	0.08	
12	0.12	0.10	0.97	0.23	0.43	7.06	3.15	1.28	0.79	0.27	0.12	0.08	
13	0.12	0.08	1.09	0.26	0.41	6.84	2.97	1.28	0.82	0.32	0.13	0.08	
14	0.13	0.12	1.14	0.21	0.39	6.45	2.87	1.27	0.79	0.31	0.13	0.08	
15	0.17	0.11	1.23	0.20	0.37	6.11	2.77	1.26	0.76	0.31	0.13	0.08	
16	0.17	0.10	1.25	0.23	0.35	5.55	2.67	1.25	0.73	0.30	0.12	0.07	
17	0.14	0.11	1.25	0.22	0.37	5.19	2.55	1.24	0.71	0.30	0.12	0.06	
18	0.13	0.11	1.20	0.20	0.45	4.83	2.45	1.22	0.73	0.28	0.11	0.09	
19	0.16	0.14	1.10	0.21	0.44	4.53	2.43	1.17	0.67	0.27	0.11	0.07	
20	0.15	0.20	1.01	0.21	0.42	4.23	2.48	1.15	0.63	0.25	0.11	0.08	
21	0.12	0.20	0.99	0.21	0.38	3.85	2.65	1.12	0.60	0.25	0.11	0.06	
22	0.12	0.28	0.96	0.27	0.38	3.59	2.56	1.08	0.56	0.23	0.11	0.07	
23	0.12	0.17	0.86	0.24	0.52	3.30	2.45	1.05	0.54	0.21	0.10	0.07	
24	0.12	0.15	0.76	0.22	0.89	3.11	2.38	1.04	0.52	0.19	0.10	0.07	
25	0.11	0.15	0.66	0.19	1.24	3.06	2.19	1.05	0.50	0.21	0.10	0.07	
26	0.11	0.17	0.62	0.16	1.24	2.93	2.15	1.06	0.50	0.21	0.10	0.07	
27	0.11	0.17	0.67	0.30	1.18	2.86	2.20	1.07	0.49	0.20	0.10	0.08	
28	0.11	0.15	0.60	0.48	1.05	2.83	2.11	1.06	0.47	0.18	0.10	0.08	
29	0.11	0.14	0.50	0.59	1.50	3.20	2.07	1.05	0.46	0.18		0.07	
30	0.11	0.14	0.43	0.60	1.34	3.61	2.28	1.01	0.44	0.17		0.07	
31		0.13		0.64	1.38		2.12		0.43	0.17		0.08	
MEAN	0.19	0.13	0.66	0.31	0.65	4.55	2.88	1.31	0.73	0.29	0.12	0.08	
MAX	0.71	0.28	1.25	0.64	1.50	8.01	4.04	2.01	1.00	0.41	0.15	0.10	8.01
MIN	0.11	0.08	0.13	0.16	0.35	1.34	2.07	1.01	0.43	0.17	0.10	0.06	0.06

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.08 M (A.D), AT 18.00 HOURS, ON SEP 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.03 M (A.D)
LEFT BANK ELEVATION 8.32 M (A.D)
RIGHT BANK ELEVATION 9.50 M (A.D), DRAINAGE AREA 1092 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	0.00	0.03	0.42	1.05	6.40	37.75	13.15	3.02	0.42	0.05	0.00	
2	1.45	0.01	0.03	0.28	0.76	6.70	39.02	12.40	2.90	0.42	0.03	0.00	
3	1.55	0.01	0.03	0.24	0.60	24.55	42.00	11.00	3.20	0.40	0.03	0.00	
4	0.05	0.02	0.03	0.24	0.68	25.30	42.00	10.20	3.20	0.38	0.03	0.00	
5	0.04	0.01	0.03	0.32	0.60	26.05	44.45	9.20	3.14	0.34	0.03	0.00	
6	0.03	0.01	0.03	0.42	0.52	35.80	42.53	8.80	3.08	0.32	0.03	0.00	
7	0.03	0.01	0.05	0.36	0.48	199.20	39.20	7.90	2.84	0.30	0.03	0.00	
8	0.03	0.01	0.19	0.32	0.50	244.05	34.75	7.30	2.66	0.36	0.02	0.00	
9	0.04	0.03	0.10	0.19	0.52	229.90	30.55	6.80	2.84	0.32	0.01	0.00	
10	0.02	0.03	0.26	0.14	0.48	199.20	28.30	6.10	2.78	0.26	0.02	0.00	
11	0.02	0.01	1.10	0.13	0.46	177.95	30.85	5.90	2.60	0.24	0.02	0.00	
12	0.02	0.00	3.02	0.13	0.46	139.70	30.25	5.80	1.95	0.17	0.02	0.00	
13	0.02	0.00	3.92	0.16	0.42	118.60	27.55	5.80	2.12	0.24	0.03	0.00	
14	0.03	0.02	4.40	0.11	0.38	103.75	26.05	5.70	1.95	0.22	0.03	0.00	
15	0.07	0.01	5.30	0.10	0.34	89.85	24.55	5.60	1.80	0.22	0.03	0.00	
16	0.07	0.00	5.50	0.13	0.30	73.75	23.05	5.50	1.65	0.20	0.02	0.00	
17	0.04	0.01	5.50	0.12	0.34	65.30	21.25	5.40	1.55	0.20	0.02	0.00	
18	0.03	0.01	5.00	0.10	0.50	58.27	19.75	5.20	1.65	0.18	0.01	0.00	
19	0.06	0.04	4.00	0.11	0.48	53.03	19.45	4.70	1.35	0.17	0.01	0.00	
20	0.05	0.10	3.28	0.11	0.44	47.78	20.20	4.50	1.15	0.15	0.01	0.00	
21	0.02	0.10	3.14	0.11	0.36	41.12	22.75	4.20	1.00	0.15	0.01	0.00	
22	0.02	0.18	2.96	0.17	0.36	36.85	21.40	3.84	0.84	0.13	0.01	0.00	
23	0.02	0.07	2.36	0.14	0.68	32.50	19.75	3.60	0.76	0.11	0.00	0.00	
24	0.02	0.05	1.80	0.12	2.54	29.65	18.70	3.52	0.68	0.09	0.00	0.00	
25	0.01	0.05	1.30	0.09	5.40	28.90	15.85	3.60	0.60	0.11	0.00	0.00	
26	0.01	0.07	1.10	0.06	5.40	26.95	15.25	3.68	0.60	0.11	0.00	0.00	
27	0.01	0.07	1.35	0.20	4.80	25.90	16.00	3.76	0.58	0.10	0.00	0.00	
28	0.01	0.05	1.00	0.56	3.60	25.45	14.65	3.68	0.54	0.08	0.00	0.00	
29	0.01	0.04	0.60	0.96	8.00	31.00	14.05	3.60	0.52	0.08		0.00	
30	0.01	0.04	0.46	1.00	6.40	37.15	17.20	3.28	0.48	0.07		0.00	
31		0.03		1.20	6.80		14.80		0.46	0.07		0.00	
TOTAL	5.09	1.09	57.87	8.74	54.65	2240.60	813.90	183.71	54.49	6.61	0.50	0.00	3427.25 CMSDAY
MEAN	0.17	0.04	1.93	0.28	1.76	74.69	26.25	6.12	1.76	0.21	0.02	0.00	9.39 CMS
MAX	1.55	0.18	5.50	1.20	8.00	244.05	44.45	13.15	3.20	0.42	0.05	0.00	244.05 CMS
MIN	0.01	0.00	0.03	0.06	0.30	6.40	14.05	3.28	0.46	0.07	0.00	0.00	0.00 CMS
RUNOFF	0.440	0.094	5.000	0.755	4.722	193.588	70.321	15.873	4.708	0.571	0.043	0.000	296.114 MCM

MOMENTARY PEAK 261.90 CMS, AT 8.08 M (A.D), AT 18.00 HOURS, ON SEP 7, 1982

RUNOFF YIELD 8.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 239.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

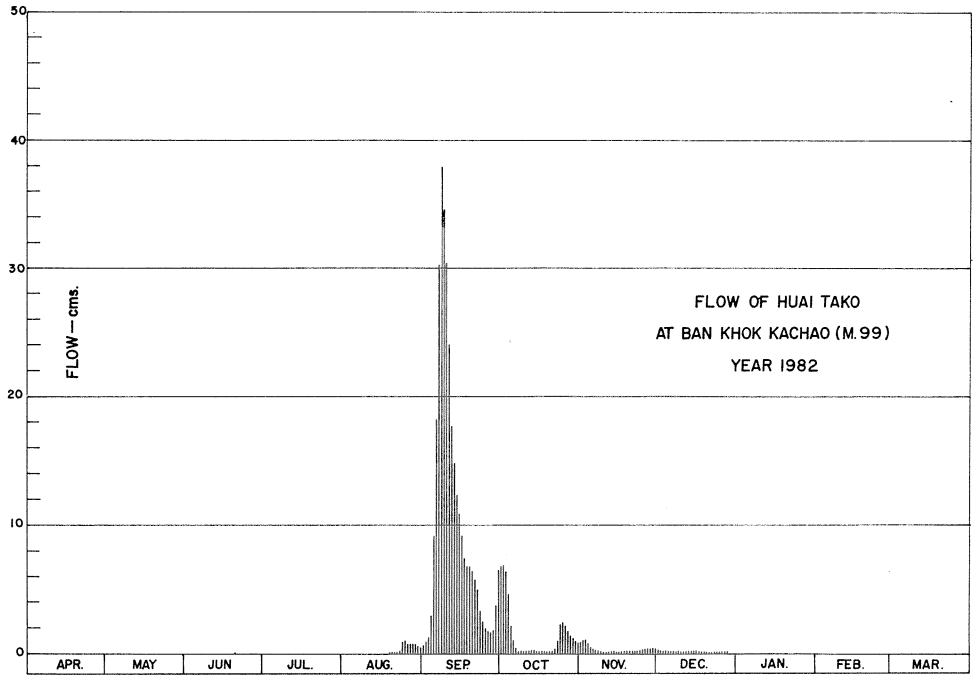
HUAI TAKO AT BAN KHOK KACHAO, BURIRAM (M.99)

LOCATION	LAT. 14°-36'-22" N., LONG. 103°-06'-30" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 103-104 AND ABOUT 2.5 KILOMETERS FROM AMPHOE PRAKHON CHAI, BAN KHOK KACHAO, AMPHOE PRAKHON CHAI, BURI RAM.
DRAINAGE AREA	88 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M. OF HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.606 M..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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY LAM CHI NOI DAM. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.49	0.62	0.40	1.18	1.69	1.26	1.12	0.49	0.02	0.00	
2	0.00	0.00	0.47	0.60	0.37	1.24	1.69	1.30	1.04	0.46	0.02	0.00	
3	0.00	0.00	0.46	0.59	0.38	1.36	1.66	1.34	1.09	0.31	0.02	0.00	
4	0.00	0.00	0.44	0.58	0.62	1.55	1.61	1.26	1.09	0.27	0.01	0.00	
5	0.00	0.00	0.43	0.57	0.70	1.76	1.43	1.17	1.06	0.26	0.01	0.00	
6	0.00	0.00	0.54	0.56	0.72	1.92	1.20	1.05	1.04	0.26	0.01	0.00	
7	0.00	0.00	0.71	0.55	0.71	1.96	0.96	0.98	1.01	0.26	0.01	0.00	
8	0.00	0.00	0.67	0.53	0.70	1.99	0.97	0.95	1.00	0.25	0.00	0.00	
9	0.00	0.00	0.66	0.57	0.70	1.96	0.94	0.92	1.00	0.25	0.00	0.00	
10	0.00	0.00	0.71	0.56	0.69	1.92	0.96	0.87	0.99	0.25	0.00	0.00	
11	0.00	0.00	0.70	0.61	0.69	1.84	0.97	0.87	0.98	0.24	0.00	0.00	
12	0.00	0.00	0.68	0.61	0.68	1.83	0.98	0.87	0.97	0.24	0.00	0.00	
13	0.00	0.00	0.64	0.61	0.67	1.79	1.02	0.88	0.96	0.23	0.00	0.00	
14	0.00	0.00	0.65	0.60	0.66	1.77	1.03	0.87	0.94	0.22	0.00	0.00	
15	0.00	0.00	0.63	0.60	0.65	1.75	0.98	0.87	0.93	0.21	0.00	0.00	
16	0.00	0.00	0.61	0.58	0.64	1.72	0.93	0.86	0.92	0.20	0.00	0.00	
17	0.00	0.00	0.59	0.58	0.63	1.69	0.92	0.86	0.85	0.20	0.00	0.00	
18	0.00	0.00	0.58	0.56	0.62	1.69	0.92	0.92	0.85	0.19	0.00	0.00	
19	0.47	0.00	0.63	0.55	0.69	1.69	0.89	1.01	0.84	0.18	0.00	0.00	
20	0.45	0.00	0.76	0.55	0.77	1.67	0.89	1.00	0.83	0.18	0.00	0.00	
21	0.43	0.00	0.71	0.53	0.81	1.65	0.94	0.96	0.82	0.17	0.00	0.00	
22	0.40	0.00	0.68	0.53	0.78	1.62	1.07	0.97	0.82	0.17	0.00	0.00	
23	0.37	0.00	0.66	0.54	0.82	1.54	1.28	1.05	0.81	0.16	0.00	0.00	
24	0.34	0.65	0.65	0.53	1.30	1.49	1.51	1.03	0.79	0.15	0.00	0.00	
25	0.33	0.63	0.65	0.52	1.31	1.49	1.52	1.12	0.78	0.15	0.00	0.00	
26	0.31	0.58	0.66	0.51	1.24	1.45	1.51	1.11	0.77	0.15	0.00	0.00	
27	0.30	0.56	0.65	0.49	1.24	1.44	1.46	1.13	0.76	0.14	0.00	0.00	
28	0.29	0.55	0.64	0.47	1.23	1.49	1.40	1.12	0.72	0.13	0.00	0.00	
29	0.27	0.53	0.63	0.44	1.25	1.57	1.34	1.13	0.65	0.10		0.00	
30	0.24	0.51	0.00	0.41	1.21	1.67	1.30	1.14	0.61	0.05		0.00	
31		0.51		0.40	1.15		1.28		0.57	0.03		0.00	
MEAN	0.14	0.15	0.60	0.55	0.81	1.66	1.20	1.03	0.89	0.21	0.00	0.00	
MAX	0.47	0.65	0.76	0.62	1.31	1.99	1.69	1.34	1.12	0.49	0.02	0.00	1.99
MIN	0.00	0.00	0.00	0.40	0.37	1.18	0.89	0.86	0.57	0.03	0.00	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.00 M (A.D), AT 12.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.01 M (A.D)
LEFT BANK ELEVATION 3.40 M (A.D)
RIGHT BANK ELEVATION 3.27 M (A.D), DRAINAGE AREA 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.64	6.88	0.88	0.46	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.82	6.88	1.00	0.34	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	1.30	5.92	1.20	0.39	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	3.10	4.32	0.88	0.39	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	11.28	1.71	0.61	0.36	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	27.40	0.70	0.35	0.34	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	33.40	0.26	0.28	0.31	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	37.90	0.27	0.25	0.30	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	33.40	0.24	0.22	0.30	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	27.40	0.26	0.17	0.29	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	18.16	0.27	0.17	0.28	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	17.12	0.28	0.17	0.27	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	13.32	0.32	0.18	0.26	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	11.96	0.33	0.17	0.24	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	10.60	0.28	0.17	0.23	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	8.56	0.23	0.16	0.22	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	6.88	0.22	0.16	0.15	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	6.88	0.22	0.22	0.15	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	6.88	0.19	0.31	0.14	0.00	0.00	0.00	
20	0.00	0.00	0.02	0.00	0.04	6.24	0.19	0.30	0.13	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.11	5.60	0.24	0.26	0.12	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.06	4.64	0.37	0.27	0.12	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.12	2.92	0.94	0.35	0.11	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	1.00	2.13	2.38	0.33	0.08	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	1.05	2.13	2.56	0.46	0.06	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.82	1.85	2.38	0.43	0.04	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.82	1.78	1.92	0.49	0.02	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.79	2.13	1.50	0.46	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.85	3.46	1.20	0.49	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.73	6.24	1.00	0.52	0.00	0.00		0.00	
31		0.00		0.00	0.55		0.94		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.02	0.00	6.94	316.12	45.40	11.91	6.10	0.00	0.00	0.00	386.49 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.22	10.54	1.46	0.40	0.20	0.00	0.00	0.00	1.06 CMS
MAX	0.00	0.00	0.02	0.00	1.05	37.90	6.88	1.20	0.46	0.00	0.00	0.00	37.90 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.64	0.19	0.16	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.002	0.000	0.600	27.313	3.923	1.029	0.527	0.000	0.000	0.000	33.393 MCM

MOMENTARY PEAK 39.40 CMS, AT 2.00 M (A.D), AT 12.00 HOURS, ON SEP 8, 1982
RUNOFF YIELD 12.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 447.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

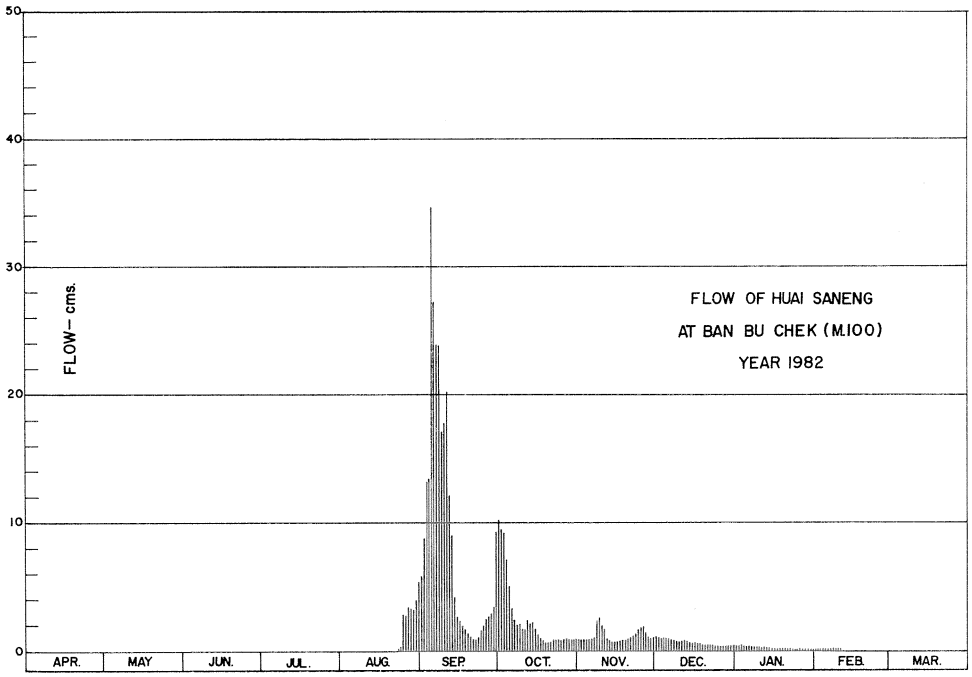
HUAI SANENG AT BAN BU CHEK, SURIN (M.100)

LOCATION	LAT. 14°-37′-01″ N., LONG. 103°-28′-44″ E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 145-146 AND ABOUT 8 KILOMETERS FROM AMPHOE PRASAT, TAMBON TA BAO, AMPHOE PRASAT, SURIN.
DRAINAGE AREA	131 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.332 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY LOCAL RESIDENT WEIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.42	0.31	0.41	0.48	1.52	1.57	1.37	1.41	1.02	0.77	0.58	
2	0.53	0.42	0.30	0.41	0.47	1.54	1.56	1.38	1.40	1.01	0.77	0.57	
3	0.53	0.41	0.30	0.42	0.47	1.60	1.56	1.35	1.40	1.01	0.76	0.56	
4	0.52	0.40	0.32	0.45	0.52	1.60	1.54	1.38	1.39	1.00	0.76	0.55	
5	0.52	0.41	0.38	0.45	0.55	1.66	1.51	1.38	1.40	0.99	0.75	0.54	
6	0.50	0.42	0.38	0.46	0.54	1.63	1.48	1.38	1.39	0.98	0.74	0.54	
7	0.50	0.42	0.39	0.45	0.54	1.63	1.46	1.40	1.37	0.97	0.73	0.53	
8	0.49	0.41	0.39	0.45	0.53	1.63	1.44	1.46	1.34	0.96	0.72	0.52	
9	0.52	0.41	0.39	0.46	0.54	1.61	1.45	1.47	1.32	0.96	0.71	0.52	
10	0.51	0.40	0.40	0.54	0.53	1.61	1.43	1.42	1.30	0.95	0.71	0.52	
11	0.50	0.39	0.40	0.58	0.53	1.62	1.42	1.44	1.29	0.94	0.70	0.51	
12	0.50	0.39	0.39	0.57	0.55	1.59	1.46	1.40	1.32	0.93	0.69	0.51	
13	0.49	0.38	0.38	0.56	0.56	1.53	1.44	1.34	1.27	0.92	0.69	0.50	
14	0.49	0.38	0.38	0.55	0.55	1.49	1.45	1.32	1.22	0.92	0.68	0.49	
15	0.50	0.37	0.38	0.55	0.54	1.47	1.43	1.33	1.29	0.91	0.68	0.48	
16	0.49	0.37	0.37	0.54	0.53	1.45	1.41	1.32	1.22	0.90	0.67	0.47	
17	0.49	0.37	0.36	0.54	0.52	1.44	1.37	1.33	1.19	0.89	0.66	0.47	
18	0.48	0.36	0.38	0.55	0.52	1.44	1.31	1.38	1.18	0.88	0.65	0.60	
19	0.50	0.36	0.39	0.55	0.52	1.42	1.26	1.36	1.15	0.88	0.65	0.60	
20	0.49	0.35	0.38	0.54	0.54	1.41	1.24	1.34	1.13	0.87	0.64	0.50	
21	0.49	0.35	0.38	0.54	0.59	1.37	1.31	1.40	1.12	0.86	0.63	0.58	
22	0.48	0.34	0.38	0.54	0.59	1.36	1.34	1.40	1.11	0.85	0.62	0.57	
23	0.48	0.35	0.37	0.54	0.58	1.40	1.35	1.42	1.10	0.84	0.62	0.56	
24	0.47	0.35	0.36	0.54	0.72	1.42	1.39	1.43	1.09	0.82	0.61	0.55	
25	0.46	0.34	0.36	0.53	1.48	1.44	1.38	1.44	1.08	0.82	0.60	0.54	
26	0.45	0.34	0.39	0.52	1.47	1.46	1.38	1.44	1.07	0.81	0.59	0.54	
27	0.45	0.33	0.39	0.52	1.50	1.47	1.39	1.42	1.06	0.80	0.59	0.53	
28	0.44	0.33	0.38	0.51	1.48	1.49	1.36	1.40	1.05	0.80	0.58	0.52	
29	0.44	0.32	0.39	0.50	1.49	1.50	1.34	1.40	1.04	0.80		0.52	
30	0.42	0.32	0.42	0.49	1.50	1.56	1.34	1.40	1.03	0.79		0.51	
31		0.31		0.48	1.52		1.34		1.02	0.78		0.50	
MEAN	0.49	0.37	0.37	0.51	0.76	1.51	1.41	1.39	1.22	0.90	0.68	0.53	
MAX	0.54	0.42	0.42	0.58	1.52	1.66	1.57	1.47	1.41	1.02	0.77	0.60	1.66
MIN	0.42	0.31	0.30	0.41	0.47	1.36	1.24	1.32	1.02	0.78	0.58	0.47	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.68 M (A.D), AT 18.00 HOURS, ON SEP 5, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.18 M (A.D)
LEFT BANK ELEVATION 3.13 M (A.D)
RIGHT BANK ELEVATION 3.14 M (A.D), DRAINAGE AREA 131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	5.36	10.26	0.91	1.24	0.32	0.07	0.00	
2	0.00	0.00	0.00	0.00	0.00	7.32	9.28	0.94	1.00	0.31	0.07	0.00	
3	0.00	0.00	0.00	0.00	0.00	13.20	9.28	0.85	1.00	0.31	0.06	0.00	
4	0.00	0.00	0.00	0.00	0.00	13.20	7.32	0.94	0.97	0.30	0.06	0.00	
5	0.00	0.00	0.00	0.00	0.00	34.68	4.38	0.94	1.00	0.29	0.05	0.00	
6	0.00	0.00	0.00	0.00	0.00	23.94	2.92	0.94	0.97	0.28	0.04	0.00	
7	0.00	0.00	0.00	0.00	0.00	23.94	2.44	1.00	0.91	0.27	0.03	0.00	
8	0.00	0.00	0.00	0.00	0.00	23.94	1.96	2.44	0.82	0.26	0.02	0.00	
9	0.00	0.00	0.00	0.00	0.00	16.78	2.20	2.68	0.76	0.26	0.01	0.00	
10	0.00	0.00	0.00	0.00	0.00	16.78	1.72	1.48	0.70	0.25	0.01	0.00	
11	0.00	0.00	0.00	0.00	0.00	20.36	1.48	1.96	0.68	0.24	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	12.22	2.44	1.00	0.76	0.23	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	6.34	1.96	0.82	0.64	0.22	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	3.16	2.20	0.76	0.54	0.22	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	2.68	1.72	0.79	0.68	0.21	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	2.20	1.24	0.76	0.54	0.20	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	1.96	0.91	0.79	0.49	0.19	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	1.96	0.73	0.94	0.48	0.18	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	1.48	0.62	0.88	0.45	0.18	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	1.24	0.58	0.82	0.43	0.17	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.91	0.73	1.00	0.42	0.16	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.88	0.82	1.00	0.41	0.15	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	1.00	0.85	1.48	0.40	0.14	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.02	1.48	0.97	1.72	0.39	0.12	0.00	0.00	
25	0.00	0.00	0.00	0.00	2.92	1.96	0.94	1.96	0.38	0.12	0.00	0.00	
26	0.00	0.00	0.00	0.00	2.68	2.44	0.94	1.96	0.37	0.11	0.00	0.00	
27	0.00	0.00	0.00	0.00	3.40	2.68	0.97	1.48	0.36	0.10	0.00	0.00	
28	0.00	0.00	0.00	0.00	2.92	3.16	0.88	1.00	0.35	0.10	0.00	0.00	
29	0.00	0.00	0.00	0.00	3.16	3.40	0.82	1.00	0.34	0.10		0.00	
30	0.00	0.00	0.00	0.00	3.40	9.28	0.82	1.00	0.33	0.09		0.00	
31		0.00		0.00	5.36		0.82		0.32	0.08		0.00	
TOTAL	0.00	0.00	0.00	0.00	23.86	259.93	75.20	36,24	19.13	6.16	0.42	0.00	420.94 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.77	8.66	2.43	1.21	0.62	0.20	0.01	0.00	1.15 CMS
MAX	0.00	0.00	0.00	0.00	5.36	34.68	10.26	2.68	1.24	0.32	0.07	0.00	34.68 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.88	0.58	0.76	0.32	0.08	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	2.062	22.458	6.497	3.131	1.653	0.532	0.036	0.000	36.369 MCM

MOMENTARY PEAK 41.84 CMS, AT 1.68 M (A.D), AT 18.00 HOURS, ON SEP 5, 1982

RUNOFF YIELD 8.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 319.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

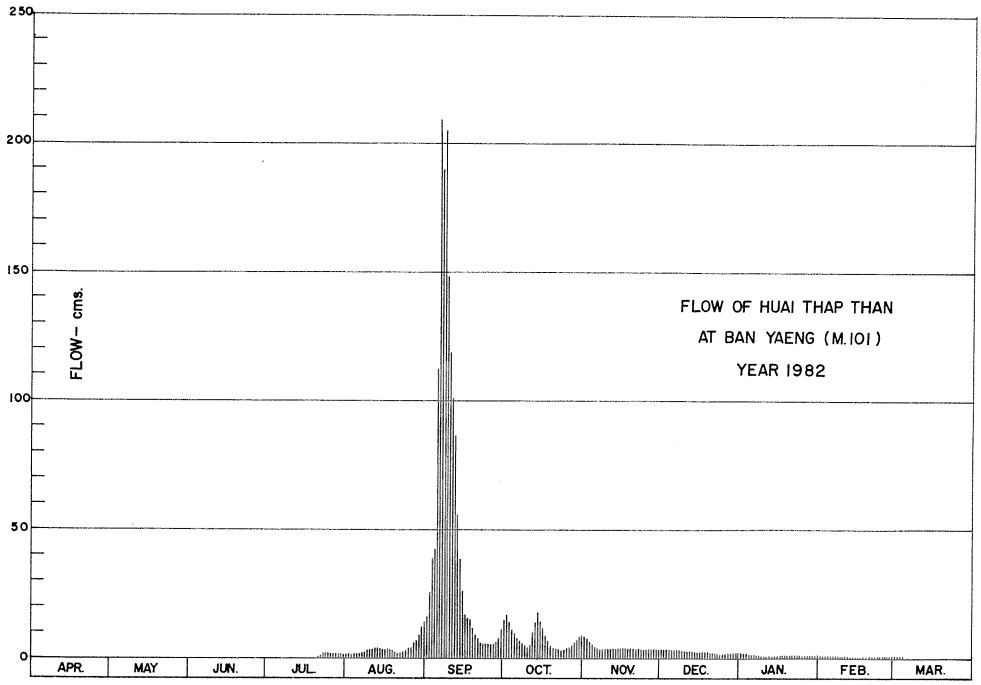
HUAI THAP THAN AT BAN YAENG, SURIN (M.101)

LOCATION	LAT. 14°-37'-42" N., LONG. 103°-42'-12" E., ON LEFT BANK AT THE BRIDE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 170-171 AND ABOUT 17 KILOMETERS FROM AMPHOE SANGKHA, BAN YAENG, TAMBON KRA THIAM, AMPHOE SANGKHA, SURIN.
DRAINAGE AREA	390 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.945 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.17	4.32	4.76	4.76	6.09	6.91	6.88	6.71	6.39	6.15	5.89	5.64	
2	4.16	4.32	4.76	4.76	6.09	7.01	6.92	6.67	6.38	6.14	5.88	5.63	
3	4.16	4.32	4.76	4.76	6.09	7.13	6.88	6.64	6.38	6.13	5.88	5.62	
4	4.16	4.32	4.76	4.76	6.10	7.15	6.81	6.60	6.34	6.11	5.87	5.61	
5	4.17	4.33	4.76	4.76	6.13	7.55	6.74	6.52	6.31	6.08	5.85	5.60	
6	4.17	4.36	4.76	4.76	6.16	7.69	6.68	6.45	6.38	6.05	5.84	5.60	
7	4.16	4.36	4.76	4.76	6.20	7.65	6.62	6.42	6.36	6.05	5.83	5.59	
8	4.17	4.36	4.76	4.76	6.27	7.68	6.57	6.43	6.35	6.04	5.82	5.58	
9	4.19	4.35	4.76	4.76	6.33	7.54	6.51	6.42	6.37	6.01	5.81	5.58	
10	4.20	4.35	4.76	4.76	6.34	7.51	6.47	6.41	6.34	6.01	5.80	5.57	
11	4.20	4.35	4.76	4.76	6.42	7.41	6.51	6.40	6.31	6.01	5.79	5.56	
12	4.20	4.34	4.76	4.76	6.44	7.32	6.73	6.46	6.30	6.00	5.78	5.56	
13	4.20	4.35	4.76	4.76	6.44	7.20	6.88	6.47	6.29	6.00	5.77	5.55	
14	4.21	4.37	4.76	4.76	6.35	7.06	6.93	6.45	6.27	5.99	5.76	5.55	
15	4.24	4.39	4.76	4.76	6.33	6.96	6.87	6.44	6.23	5.99	5.75	5.54	
16	4.31	4.39	4.76	4.76	6.36	6.91	6.81	6.44	6.20	5.98	5.75	5.54	
17	4.30	4.39	4.76	4.76	6.41	6.90	6.70	6.48	6.17	5.98	5.74	5.53	
18	4.30	4.38	4.76	4.76	6.36	6.89	6.60	6.47	6.15	5.98	5.73	5.57	
19	4.31	4.38	4.76	4.76	6.28	6.79	6.50	6.48	6.14	5.97	5.72	5.57	
20	4.32	4.39	4.76	4.76	6.21	6.74	6.44	6.47	6.12	5.96	5.71	5.56	
21	4.35	4.40	4.76	5.70	6.21	6.67	6.43	6.46	6.10	5.95	5.70	5.55	
22	4.34	4.45	4.76	5.87	6.20	6.60	6.40	6.43	6.08	5.94	5.69	5.54	
23	4.34	4.55	4.76	6.19	6.21	6.56	6.37	6.41	6.09	5.93	5.68	5.53	
24	4.34	4.63	4.76	6.19	6.32	6.61	6.39	6.40	6.10	5.92	5.67	5.52	
25	4.34	4.69	4.76	6.19	6.41	6.57	6.43	6.40	6.11	5.92	5.66	5.51	
26	4.33	4.71	4.76	6.18	6.44	6.57	6.49	6.41	6.13	5.91	5.66	5.51	
27	4.33	4.76	4.76	6.17	6.53	6.56	6.53	6.40	6.13	5.91	5.65	5.51	
28	4.33	4.76	4.76	6.15	6.63	6.60	6.59	6.40	6.14	5.91	5.65	5.50	
29	4.33	4.76	4.76	6.13	6.72	6.69	6.65	6.39	6.16	5.91		5.49	
30	4.32	4.76	4.76	6.11	6.87	6.80	6.69	6.39	6.17	5.90		5.48	
31		4.76		6.10	6.85		6.72		6.16	5.90		5.47	
MEAN	4.26	4.46	4.76	5.23	6.35	7.01	6.64	6.46	6.23	5.99	5.76	5.55	
MAX	4.35	4.76	4.76	6.19	6.87	7.69	6.93	6.71	6.39	6.15	5.89	5.64	7.69
MIN	4.16	4.32	4.76	4.76	6.09	6.56	6.37	6.39	6.08	5.90	5.65	5.47	4.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.75 M (A.D), AT 6.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 3.66 M (A.D)
LEFT BANK ELEVATION 8.64 M (A.D)
RIGHT BANK ELEVATION 8.61 M (A.D), DRAINAGE AREA 390 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	1.96	16.70	15.20	9.30	3.92	2.30	1.16	0.16	
2	0.00	0.00	0.00	0.00	1.96	24.10	17.40	8.25	3.84	2.24	1.12	0.12	
3	0.00	0.00	0.00	0.00	1.96	38.80	15.20	7.50	3.84	2.18	1.12	0.08	
4	0.00	0.00	0.00	0.00	2.00	42.00	12.40	6.50	3.52	2.06	1.08	0.04	
5	0.00	0.00	0.00	0.00	2.18	145.00	10.20	5.30	3.28	1.92	1.00	0.00	
6	0.00	0.00	0.00	0.00	2.36	209.90	8.50	4.50	3.84	1.80	0.96	0.00	
7	0.00	0.00	0.00	0.00	2.60	189.50	7.00	4.20	3.68	1.80	0.92	0.00	
8	0.00	0.00	0.00	0.00	3.02	204.80	6.05	4.30	3.60	1.76	0.88	0.00	
9	0.00	0.00	0.00	0.00	3.44	141.20	5.15	4.20	3.76	1.64	0.84	0.00	
10	0.00	0.00	0.00	0.00	3.52	129.80	4.70	4.10	3.52	1.64	0.80	0.00	
11	0.00	0.00	0.00	0.00	4.20	98.10	5.15	4.00	3.28	1.64	0.76	0.00	
12	0.00	0.00	0.00	0.00	4.40	75.00	9.90	4.60	3.20	1.60	0.72	0.00	
13	0.00	0.00	0.00	0.00	4.40	50.00	15.20	4.70	3.14	1.60	0.68	0.00	
14	0.00	0.00	0.00	0.00	3.60	29.60	18.10	4.50	3.02	1.56	0.64	0.00	
15	0.00	0.00	0.00	0.00	3.44	20.20	14.80	4.40	2.78	1.56	0.60	0.00	
16	0.00	0.00	0.00	0.00	3.68	16.70	12.40	4.40	2.60	1.52	0.60	0.00	
17	0.00	0.00	0.00	0.00	4.10	16.00	9.00	4.80	2.42	1.52	0.56	0.00	
18	0.00	0.00	0.00	0.00	3.68	15.60	6.50	4.70	2.30	1.52	0.52	0.00	
19	0.00	0.00	0.00	0.00	3.08	11.70	5.00	4.80	2.24	1.48	0.48	0.00	
20	0.00	0.00	0.00	0.00	2.66	10.20	4.40	4.70	2.12	1.44	0.44	0.00	
21	0.00	0.00	0.00	0.40	2.66	8.25	4.30	4.60	2.00	1.40	0.40	0.00	
22	0.00	0.00	0.00	1.08	2.60	6.50	4.00	4.30	1.92	1.36	0.36	0.00	
23	0.00	0.00	0.00	2.54	2.66	5.90	3.76	4.10	1.96	1.32	0.32	0.00	
24	0.00	0.00	0.00	2.54	3.36	6.75	3.92	4.00	2.00	1.28	0.28	0.00	
25	0.00	0.00	0.00	2.54	4.10	6.05	4.30	4.00	2.06	1.28	0.24	0.00	
26	0.00	0.00	0.00	2.48	4.40	6.05	4.90	4.10	2.18	1.24	0.24	0.00	
27	0.00	0.00	0.00	2.42	5.45	5.90	5.45	4.00	2.18	1.24	0.20	0.00	
28	0.00	0.00	0.00	2.30	7.25	6.50	6.35	4.00	2.24	1.24	0.20	0.00	
29	0.00	0.00	0.00	2.18	9.60	8.75	7.75	3.92	2.36	1.24		0.00	
30	0.00	0.00	0.00	2.06	14.80	12.00	8.75	3.92	2.42	1.20		0.00	
31		0.00		2.00	14.00		9.60		2.36	1.20		0.00	
TOTAL	0.00	0.00	0.00	22.54	133.12	1557.55	265.33	144.69	87.58	48.78	18.12	0.40	2278.11 CMSDAY
MEAN	0.00	0.00	0.00	0.73	4.29	51.92	8.56	4.82	2.83	1.57	0.65	0.01	6.24 CMS
MAX	0.00	0.00	0.00	2.54	14.80	209.90	18.10	9.30	3.92	2.30	1.16	0.16	209.90 CMS
MIN	0.00	0.00	0.00	0.00	1.96	5.90	3.76	3.92	1.92	1.20	0.20	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	1.947	11.502	134.572	22.925	12.501	7.567	4.215	1.566	0.035	196.829 MCM

MOMENTARY PEAK 252.50 CMS, AT 7.75 M (A.D), AT 6.00 HOURS, ON SEP 8, 1982

RUNOFF YIELD 16.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 647.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

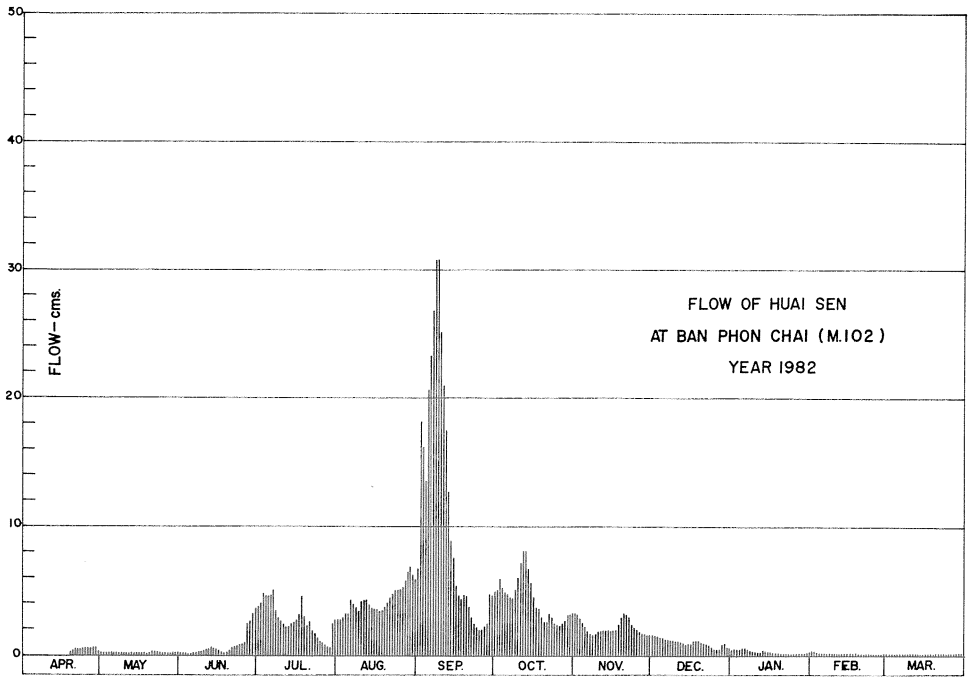
HUAI SEN AT BAN PHON CHAI, SURIN (M.102)

LOCATION	LAT. 14°-36′-50″ N., LONG. 103°-53′-24″ E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR GUIDEPOST 192-193 AND ABOUT 4 KILOMETERS FROM AMPHOE SANGKHA, BAN PHON CHAI, TAMBON SANGKHA, AMPHOE SANGKHA, SURIN.
DRAINAGE AREA	207 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M. OF HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+3.511 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.45	-0.01	-0.16	0.94	0.79	1.23	1.08	0.88	0.55	0.11	0.12	-0.20	
2	-0.42	-0.02	-0.16	0.99	0.79	1.76	1.10	0.87	0.54	0.18	0.10	-0.20	
3	-0.45	-0.04	-0.17	1.06	0.80	1.69	1.18	0.83	0.54	0.19	0.04	-0.20	
4	-0.45	-0.06	-0.17	1.03	0.87	1.61	1.13	0.75	0.52	0.18	0.03	-0.19	
5	-0.45	-0.08	-0.17	1.02	0.85	1.82	1.07	0.69	0.52	0.21	0.00	-0.18	
6	-0.44	-0.16	-0.17	1.06	1.02	1.89	1.06	0.63	0.48	0.23	-0.04	-0.17	
7	-0.44	-0.12	-0.09	1.10	0.97	1.93	1.04	0.54	0.47	0.16	-0.02	-0.18	
8	-0.44	-0.14	-0.09	0.88	0.94	2.00	1.00	0.55	0.46	0.12	-0.02	-0.20	
9	-0.44	-0.14	-0.08	0.83	0.91	2.00	1.10	0.58	0.45	0.10	-0.07	-0.20	
10	-0.44	-0.15	0.10	0.77	0.99	1.89	1.17	0.59	0.45	0.07	-0.06	-0.23	
11	-0.44	-0.16	0.13	0.69	1.00	1.84	1.26	0.62	0.44	0.04	-0.04	-0.24	
12	-0.43	-0.18	0.19	0.65	1.02	1.71	1.32	0.65	0.43	-0.03	-0.02	-0.25	
13	-0.43	-0.19	0.22	0.73	0.97	1.54	1.35	0.64	0.40	0.16	-0.01	-0.26	
14	-0.43	-0.21	0.19	0.74	0.93	1.35	1.23	0.64	0.38	0.14	-0.02	-0.27	
15	-0.43	-0.21	0.15	0.76	0.93	1.19	1.20	0.64	0.36	0.13	-0.05	-0.27	
16	-0.43	-0.19	0.05	0.79	0.93	1.10	1.07	0.62	0.36	0.12	-0.07	-0.28	
17	-0.43	-0.20	-0.09	0.88	0.92	1.01	0.95	0.65	0.47	0.11	-0.08	-0.29	
18	-0.41	-0.21	-0.10	1.04	0.92	1.04	0.87	0.74	0.47	-0.05	-0.10	-0.29	
19	-0.42	-0.17	-0.06	0.77	0.95	1.05	0.80	0.82	0.45	-0.07	-0.11	-0.30	
20	0.13	-0.18	0.18	0.66	0.98	1.03	0.74	0.88	0.41	-0.08	-0.12	-0.31	
21	0.14	-0.06	0.23	0.77	1.04	0.95	0.73	0.87	0.40	-0.09	-0.14	-0.32	
22	0.16	0.07	0.26	0.62	1.07	0.87	0.88	0.83	0.38	-0.10	-0.14	-0.32	
23	0.17	-0.10	0.29	0.60	1.09	0.70	0.81	0.73	0.34	-0.11	-0.15	-0.32	
24	0.17	-0.10	0.30	0.49	1.09	0.68	0.78	0.68	0.23	-0.11	-0.16	-0.32	
25	0.18	-0.13	0.31	0.41	1.10	0.62	0.71	0.65	0.22	-0.12	-0.17	-0.32	
26	0.18	-0.14	0.36	0.37	1.11	0.68	0.73	0.62	0.22	-0.12	-0.18	-0.33	
27	0.19	-0.15	0.76	0.34	1.15	0.71	0.75	0.59	0.19	-0.12	-0.19	-0.35	
28	0.20	-0.16	0.78	0.29	1.21	0.74	0.79	0.58	0.39	-0.12	-0.20	-0.35	
29	0.20	-0.16	0.88	0.19	1.26	1.07	0.84	0.57	0.40	-0.11		-0.33	
30	0.00	-0.16	0.90	0.74	1.20	1.04	0.87	0.56	0.20	-0.05		-0.33	
31		-0.16		0.81	1.18		0.89		0.18	-0.03		-0.34	
MEAN	-0.22	-0.13	0.16	0.74	1.00	1.29	0.98	0.68	0.40	0.03	-0.07	-0.27	
MAX	0.20	0.07	0.90	1.10	1.26	2.00	1.35	0.88	0.55	0.23	0.12	-0.17	2.00
MIN	-0.45	-0.21	-0.17	0.19	0.79	0.62	0.71	0.54	0.18	-0.12	-0.20	-0.35	-0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.03 M (A.D), AT 15.00 HOURS, ON SEP 8, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.47 M (A.D)
LEFT BANK ELEVATION 3.28 M (A.D)
RIGHT BANK ELEVATION 3.23 M (A.D), DRAINAGE AREA 207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.29	0.14	3.72	2.74	6.59	4.92	3.28	1.60	0.42	0.44	0.10	
2	0.00	0.28	0.14	4.12	2.74	18.30	5.10	3.22	1.56	0.56	0.40	0.10	
3	0.00	0.26	0.13	4.74	2.80	15.91	5.98	2.98	1.56	0.58	0.34	0.10	
4	0.00	0.24	0.13	4.47	3.22	13.59	5.43	2.50	1.48	0.56	0.33	0.11	
5	0.00	0.22	0.13	4.38	3.10	20.56	4.83	2.16	1.48	0.62	0.30	0.12	
6	0.00	0.14	0.13	4.74	4.38	23.57	4.74	1.92	1.32	0.66	0.26	0.13	
7	0.00	0.18	0.21	5.10	3.96	26.04	4.56	1.56	1.28	0.52	0.28	0.12	
8	0.00	0.16	0.21	3.28	3.72	30.80	4.20	1.60	1.24	0.44	0.28	0.10	
9	0.00	0.16	0.22	2.98	3.48	30.80	5.10	1.72	1.20	0.40	0.23	0.10	
10	0.00	0.15	0.40	2.62	4.12	23.57	5.87	1.76	1.20	0.37	0.24	0.09	
11	0.00	0.14	0.46	2.16	4.20	21.42	6.98	1.88	1.16	0.34	0.26	0.08	
12	0.00	0.12	0.58	2.00	4.38	16.55	7.82	2.00	1.12	0.27	0.28	0.08	
13	0.00	0.11	0.64	2.38	3.96	11.92	8.30	1.96	1.00	0.52	0.29	0.07	
14	0.00	0.10	0.58	2.44	3.64	8.30	6.59	1.96	0.96	0.48	0.28	0.07	
15	0.00	0.10	0.50	2.56	3.64	6.09	6.20	1.96	0.92	0.46	0.25	0.07	
16	0.00	0.11	0.35	2.74	3.64	5.10	4.83	1.88	0.92	0.44	0.23	0.06	
17	0.00	0.10	0.21	3.28	3.56	4.29	3.80	2.00	1.28	0.42	0.22	0.06	
18	0.00	0.10	0.20	4.56	3.56	4.56	3.22	2.44	1.28	0.25	0.20	0.06	
19	0.00	0.13	0.24	2.62	3.80	4.65	2.80	2.92	1.20	0.23	0.19	0.05	
20	0.46	0.12	0.56	2.04	4.04	4.47	2.44	3.28	1.04	0.22	0.18	0.05	
21	0.48	0.24	0.66	2.62	4.56	3.80	2.38	3.22	1.00	0.21	0.16	0.04	
22	0.52	0.37	0.72	1.88	4.83	3.22	3.28	2.98	0.96	0.20	0.16	0.04	
23	0.54	0.20	0.78	1.80	5.01	2.20	2.86	2.38	0.88	0.19	0.15	0.04	
24	0.54	0.20	0.80	1.36	5.01	2.12	2.68	2.12	0.66	0.19	0.14	0.04	
25	0.56	0.17	0.82	1.04	5.10	1.88	2.26	2.00	0.64	0.18	0.13	0.04	
26	0.56	0.16	0.92	0.94	5.21	2.12	2.38	1.88	0.64	0.18	0.12	0.03	
27	0.58	0.15	2.56	0.88	5.65	2.26	2.50	1.76	0.58	0.18	0.11	0.03	
28	0.60	0.14	2.68	0.78	6.33	2.44	2.74	1.72	0.98	0.18	0.10	0.03	
29	0.60	0.14	3.28	0.58	6.98	4.83	3.04	1.68	1.00	0.19		0.03	
30	0.30	0.14	3.40	2.44	6.20	4.56	3.22	1.64	0.60	0.25		0.03	
31		0.14		2.86	5.98		3.34		0.56	0.27		0.03	
TOTAL	5.74	5.26	22.78	84.11	133.54	326.51	134.39	66.36	33.30	10.98	6.55	2.10	831.62 CMSDAY
MEAN	0.19	0.17	0.76	2.71	4.31	10.88	4.34	2.21	1.07	0.35	0.23	0.07	2.28 CMS
MAX	0.60	0.37	3.40	5.10	6.98	30.80	8.30	3.28	1.60	0.66	0.44	0.13	30.80 CMS
MIN	0.00	0.10	0.13	0.58	2.74	1.88	2.26	1.56	0.56	0.18	0.10	0.03	0.00 CMS
RUNOFF	0.496	0.454	1.968	7.267	11.538	28.210	11.611	5.734	2.877	0.949	0.566	0.181	71.852 MCM

MOMENTARY PEAK 34.46 CMS, AT 2.03 M (A.D), AT 15.00 HOURS, ON SEP 8, 1982
RUNOFF YIELD 11.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 166.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

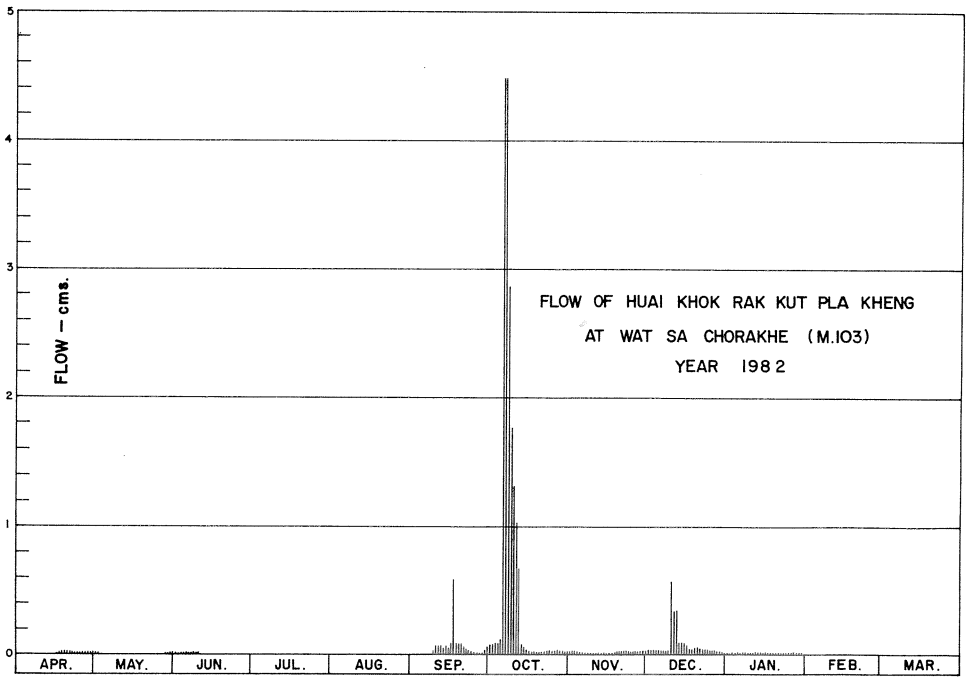
HUAI KHOK RAK KUT PLA KHENG AT WAT SA CHORAKHE, NAKHON RATCHASIMA (M.103)

LOCATION	LAT. 15°-10′-13″ N., LONG. 101°-48′-59″ E., ON RIGHT BANK AT WAT SA CHORAKHE, TAMBON SA CHORAKHE, AMPHOE DAN KHUN THOT, NAKHON RATCHASIMA.
DRAINAGE AREA	127 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 10 METERS FROM THE SECOND STAFF GAGE.
ELEVATION	+3.938 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	1.05	1.05	0.84	0.67	0.63	1.37	1.23	1.25	1.14	1.00	0.86	
2	0.41	1.02	1.05	0.83	0.66	0.69	1.38	1.24	1.26	1.13	1.00	0.86	
3	0.40	1.00	1.05	0.82	0.65	0.70	1.39	1.22	1.26	1.13	1.00	0.85	
4	0.40	0.99	1.06	0.81	0.65	0.69	1.40	1.20	1.26	1.16	0.99	0.85	
5	0.39	0.97	1.05	0.80	0.64	0.69	1.40	1.19	1.26	1.15	0.98	0.85	
6	0.38	0.96	1.04	0.80	0.63	0.70	1.56	1.18	1.25	1.15	0.98	0.84	
7	0.38	0.95	1.03	0.79	0.62	0.74	1.56	1.18	1.25	1.15	0.97	0.84	
8	0.37	0.95	1.02	0.77	0.62	0.95	1.51	1.16	1.25	1.14	0.97	0.84	
9	0.42	0.94	1.02	0.76	0.61	1.16	1.48	1.16	1.27	1.14	0.96	0.84	
10	0.41	0.94	1.01	0.75	0.60	1.38	1.45	1.16	1.42	1.13	0.95	0.83	
11	0.41	0.93	1.00	0.75	0.60	1.38	1.49	1.16	1.41	1.13	0.95	0.82	
12	0.40	0.93	0.99	0.74	0.59	1.35	1.43	1.17	1.41	1.12	0.94	0.82	
13	0.40	0.92	0.98	0.74	0.59	1.34	1.39	1.17	1.40	1.12	0.94	0.81	
14	0.45	0.93	0.97	0.72	0.58	1.36	1.35	1.18	1.40	1.11	0.94	0.80	
15	0.46	0.92	0.96	0.71	0.58	1.33	1.30	1.17	1.39	1.10	0.93	0.80	
16	1.14	0.92	0.95	0.69	0.57	1.38	1.24	1.17	1.37	1.10	0.93	0.79	
17	1.14	0.94	0.94	0.68	0.56	1.42	1.28	1.17	1.30	1.09	0.92	0.78	
18	1.14	0.93	0.94	0.66	0.55	1.39	1.23	1.18	1.30	1.09	0.92	0.77	
19	1.22	0.93	0.93	0.72	0.55	1.37	1.23	1.24	1.32	1.09	0.91	0.77	
20	1.21	0.94	0.92	0.72	0.56	1.40	1.23	1.28	1.34	1.08	0.90	0.76	
21	1.19	0.93	0.91	0.73	0.59	1.35	1.22	1.28	1.32	1.07	0.90	0.75	
22	1.17	0.93	0.90	0.73	0.59	1.31	1.25	1.27	1.31	1.06	0.89	0.74	
23	1.15	0.95	0.89	0.72	0.60	1.28	1.29	1.25	1.30	1.05	0.89	0.74	
24	1.14	0.95	0.87	0.71	0.65	1.24	1.26	1.24	1.27	1.04	0.88	0.73	
25	1.13	0.94	0.86	0.71	0.66	1.23	1.24	1.24	1.26	1.04	0.87	0.72	
26	1.12	0.94	0.86	0.71	0.65	1.18	1.27	1.23	1.26	1.03	0.86	0.72	
27	1.09	1.00	0.85	0.70	0.65	1.17	1.31	1.23	1.24	1.03	0.87	0.71	
28	1.06	1.06	0.85	0.70	0.64	1.15	1.25	1.23	1.22	1.02	0.87	0.70	
29	1.05	1.07	0.84	0.69	0.64	1.29	1.22	1.23	1.20	1.01		0.69	
30	1.06	1.06	0.84	0.68	0.64	1.34	1.21	1.25	1.18	1.01		0.69	
31		1.06		0.67	0.64		1.20		1.16	1.00		0.68	
MEAN	0.77	0.97	0.95	0.74	0.61	1.15	1.34	1.21	1.29	1.09	0.93	0.78	
MAX	1.22	1.07	1.06	0.84	0.67	1.42	1.56	1.28	1.42	1.16	1.00	0.86	1.56
MIN	0.37	0.92	0.84	0.66	0.55	0.63	1.20	1.16	1.16	1.00	0.86	0.68	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.57 M (A.D), AT 12.00 HOURS, ON OCT 6, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.46 M (A.D)
LEFT BANK ELEVATION 4.63 M (A.D)
RIGHT BANK ELEVATION 4.57 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.005	0.005	0.000	0.000	0.000	0.082	0.026	0.030	0.014	0.000	0.000	
2	0.000	0.002	0.005	0.000	0.000	0.000	0.088	0.028	0.032	0.013	0.000	0.000	
3	0.000	0.000	0.005	0.000	0.000	0.000	0.094	0.024	0.032	0.013	0.000	0.000	
4	0.000	0.000	0.006	0.000	0.000	0.000	0.100	0.020	0.032	0.016	0.000	0.000	
5	0.000	0.000	0.005	0.000	0.000	0.000	0.100	0.019	0.032	0.015	0.000	0.000	
6	0.000	0.000	0.004	0.000	0.000	0.000	4.480	0.018	0.030	0.015	0.000	0.000	
7	0.000	0.000	0.003	0.000	0.000	0.000	4.480	0.018	0.030	0.015	0.000	0.000	
8	0.000	0.000	0.002	0.000	0.000	0.000	2.830	0.016	0.030	0.014	0.000	0.000	
9	0.000	0.000	0.002	0.000	0.000	0.016	2.020	0.016	0.034	0.014	0.000	0.000	
10	0.000	0.000	0.001	0.000	0.000	0.088	1.300	0.016	0.580	0.013	0.000	0.000	
11	0.000	0.000	0.000	0.000	0.000	0.088	2.260	0.016	0.340	0.013	0.000	0.000	
12	0.000	0.000	0.000	0.000	0.000	0.070	0.820	0.017	0.340	0.012	0.000	0.000	
13	0.000	0.000	0.000	0.000	0.000	0.064	0.094	0.017	0.100	0.012	0.000	0.000	
14	0.000	0.000	0.000	0.000	0.000	0.076	0.070	0.018	0.100	0.011	0.000	0.000	
15	0.000	0.000	0.000	0.000	0.000	0.058	0.040	0.017	0.094	0.010	0.000	0.000	
16	0.014	0.000	0.000	0.000	0.000	0.088	0.028	0.017	0.082	0.010	0.000	0.000	
17	0.014	0.000	0.000	0.000	0.000	0.580	0.036	0.017	0.040	0.009	0.000	0.000	
18	0.014	0.000	0.000	0.000	0.000	0.094	0.026	0.018	0.040	0.009	0.000	0.000	
19	0.024	0.000	0.000	0.000	0.000	0.082	0.026	0.028	0.052	0.009	0.000	0.000	
20	0.022	0.000	0.000	0.000	0.000	0.100	0.026	0.036	0.064	0.008	0.000	0.000	
21	0.019	0.000	0.000	0.000	0.000	0.070	0.024	0.036	0.052	0.007	0.000	0.000	
22	0.017	0.000	0.000	0.000	0.000	0.046	0.030	0.034	0.046	0.006	0.000	0.000	
23	0.015	0.000	0.000	0.000	0.000	0.036	0.038	0.030	0.040	0.005	0.000	0.000	
24	0.014	0.000	0.000	0.000	0.000	0.028	0.032	0.028	0.034	0.004	0.000	0.000	
25	0.013	0.000	0.000	0.000	0.000	0.026	0.028	0.028	0.032	0.004	0.000	0.000	
26	0.012	0.000	0.000	0.000	0.000	0.018	0.034	0.026	0.032	0.003	0.000	0.000	
27	0.009	0.000	0.000	0.000	0.000	0.017	0.046	0.026	0.028	0.003	0.000	0.000	
28	0.006	0.006	0.000	0.000	0.000	0.015	0.030	0.026	0.024	0.002	0.000	0.000	
29	0.005	0.007	0.000	0.000	0.000	0.038	0.024	0.026	0.020	0.001		0.000	
30	0.006	0.006	0.000	0.000	0.000	0.064	0.022	0.030	0.018	0.001		0.000	
31		0.006		0.000	0.000		0.020		0.016	0.000		0.000	
TOTAL	0.204	0.032	0.038	0.000	0.000	1.762	19.328	0.692	2.456	0.281	0.000	0.000	24.793 CMSDAY
MEAN	0.007	0.001	0.001	0.000	0.000	0.059	0.623	0.023	0.079	0.009	0.000	0.000	0.068 CMS
MAX	0.024	0.007	0.006	0.000	0.000	0.580	4.480	0.036	0.580	0.016	0.000	0.000	4.480 CMS
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.016	0.016	0.000	0.000	0.000	0.000 CMS
RUNOFF	0.018	0.003	0.003	0.000	0.000	0.152	1.670	0.060	0.212	0.024	0.000	0.000	2.142 MCM

MOMENTARY PEAK 4.81 CMS, AT 1.57 M (A.D), AT 12.00 HOURS, ON OCT 6, 1982
RUNOFF YIELD 0.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.87 LITERS/SECOND/SQUARE KM
M.107 19820050 134.40 0.00134.70 1.20134.80 2.00135.00 4.00135.10 5.20 DATA ERROR

WATER YEAR 1982

MUN RIVER BASIN

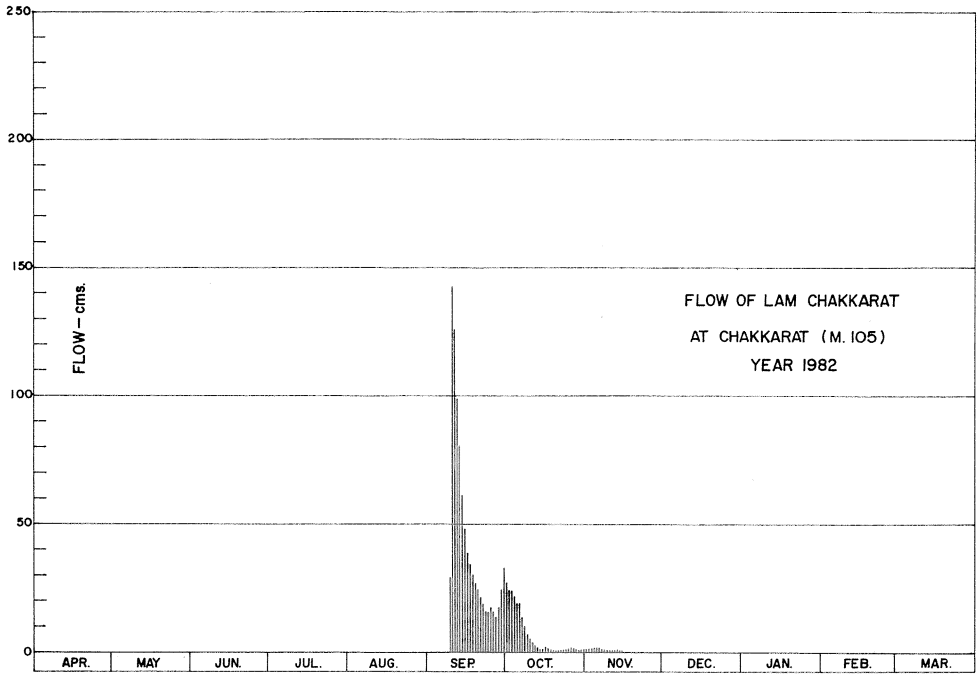
LAM CHAKKARAT AT CHAKKARAT, NAKHON RATCHASIMA (M.105)

LOCATION	LAT. 15°-00'-42" N., LONG. 102°-24'-25" E., ON LEFT BANK ABOUT 500 METERS FROM CHAKKARAT RAILWAY STATION, AMPHOE CHAKKARAT, NAKHON RATCHASIMA.
DRAINAGE AREA	1,291 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. A.D.
BENCH MARK	B.M-H.D.
LOCATION	ON LEFT BANK NEAR RAILWAY BRIDGE.
ELEVATION	+5.824 M.(A.D.)
GAGE READING FREQUENCY	3-5 TIME DAILY READINGS AT 06.00, 09.00, 12.00, 15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW IS OBSERVED AND INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.34	1.21	1.04	0.86	0.65	0.78	2.56	2.34	2.15	1.83	1.50	1.31	
2	1.34	1.20	1.03	0.87	0.65	0.77	2.56	2.33	2.13	1.82	1.49	1.31	
3	1.32	1.19	1.02	0.87	0.66	0.77	2.56	2.34	2.12	1.82	1.48	1.30	
4	1.32	1.18	1.01	0.86	0.66	0.78	2.54	2.34	2.12	1.81	1.47	1.29	
5	1.31	1.17	1.00	0.85	0.65	0.80	2.53	2.35	2.11	1.80	1.46	1.29	
6	1.30	1.16	1.01	0.84	0.65	0.86	2.53	2.35	2.11	1.80	1.45	1.28	
7	1.30	1.15	1.02	0.84	0.65	0.99	2.49	2.33	2.10	1.78	1.45	1.28	
8	1.29	1.14	1.04	0.85	0.64	1.18	2.47	2.32	2.07	1.77	1.44	1.28	
9	1.29	1.13	1.05	0.85	0.61	2.51	2.44	2.29	2.06	1.76	1.43	1.27	
10	1.29	1.12	1.04	0.85	0.60	2.90	2.42	2.28	2.05	1.75	1.43	1.27	
11	1.28	1.12	1.04	0.84	0.59	2.85	2.41	2.28	2.03	1.74	1.42	1.27	
12	1.28	1.11	1.04	0.83	0.59	2.78	2.39	2.29	2.02	1.74	1.42	1.26	
13	1.28	1.09	1.03	0.83	0.58	2.72	2.36	2.29	2.01	1.72	1.41	1.26	
14	1.27	1.08	1.03	0.84	0.57	2.69	2.34	2.27	2.00	1.72	1.40	1.26	
15	1.27	1.08	1.02	0.84	0.57	2.65	2.32	2.24	2.00	1.71	1.40	1.25	
16	1.28	1.07	1.01	0.83	0.58	2.61	2.37	2.20	1.98	1.70	1.39	1.25	
17	1.28	1.06	1.01	0.82	0.59	2.61	2.35	2.19	1.97	1.68	1.38	1.24	
18	1.29	1.06	1.00	0.83	0.60	2.58	2.33	2.17	1.96	1.67	1.38	1.23	
19	1.29	1.05	0.99	0.86	0.63	2.57	2.31	2.17	1.94	1.65	1.37	1.22	
20	1.28	1.04	0.98	0.88	0.64	2.55	2.30	2.16	1.93	1.64	1.36	1.22	
21	1.28	1.03	0.96	0.90	0.65	2.54	2.29	2.16	1.92	1.62	1.35	1.18	
22	1.28	1.05	0.96	0.90	0.66	2.53	2.27	2.15	1.92	1.62	1.34	1.18	
23	1.27	1.07	0.95	0.87	0.67	2.51	2.28	2.15	1.91	1.61	1.34	1.17	
24	1.27	1.08	0.93	0.83	0.73	2.51	2.29	2.15	1.90	1.60	1.33	1.16	
25	1.26	1.07	0.92	0.79	0.77	2.52	2.30	2.14	1.90	1.58	1.32	1.15	
26	1.25	1.06	0.91	0.76	0.77	2.51	2.32	2.14	1.89	1.57	1.32	1.15	
27	1.25	1.05	0.89	0.76	0.78	2.50	2.34	2.14	1.88	1.56	1.31	1.14	
28	1.24	1.07	0.88	0.72	0.78	2.52	2.34	2.14	1.87	1.54	1.31	1.13	
29	1.23	1.06	0.88	0.69	0.79	2.56	2.30	2.16	1.86	1.53		1.12	
30	1.22	1.05	0.87	0.67	0.78	2.57	2.31	2.17	1.85	1.52		1.11	
31		1.05		0.66	0.78		2.33		1.84	1.51		1.10	
MEAN	1.28	1.10	0.99	0.82	0.66	2.14	2.39	2.23	1.99	1.68	1.40	1.22	
MAX	1.34	1.21	1.05	0.90	0.79	2.90	2.56	2.35	2.15	1.83	1.50	1.31	2.90
MIN	1.22	1.03	0.87	0.66	0.57	0.77	2.27	2.14	1.84	1.51	1.31	1.10	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.95 M (A.D), AT 18.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)
LEFT BANK ELEVATION 3.65 M (A.D)
RIGHT BANK ELEVATION 5.66 M (A.D), DRAINAGE AREA 1291 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.00	0.00	24.80	1.80	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	24.80	1.60	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	24.80	1.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	21.20	1.80	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	19.40	2.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	19.40	2.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	12.90	1.60	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	10.70	1.40	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	15.80	7.40	0.90	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	143.00	5.20	0.80	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	118.00	4.10	0.80	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	86.00	2.80	0.90	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	65.00	2.20	0.90	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	55.40	1.80	0.70	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	45.00	1.40	0.40	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	34.60	2.40	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	34.60	2.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	28.40	1.60	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	26.60	1.20	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	23.00	1.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	21.20	0.90	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	19.40	0.70	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	15.80	0.80	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	15.80	0.90	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	17.60	1.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	15.80	1.40	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	14.00	1.80	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	17.60	1.80	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	24.80	1.00	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.00	0.00	26.60	1.20	0.00	0.00	0.00		0.00	
31		0.00		0.00	0.00		1.60		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	864.00	204.20	19.40	0.00	0.00	0.00	0.00	1087.60 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.00	28.80	6.59	0.65	0.00	0.00	0.00	0.00	2.98 CMS
MAX	0.00	0.00	0.00	0.00	0.00	143.00	24.80	2.00	0.00	0.00	0.00	0.00	143.00 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.000	74.650	17.643	1.676	0.000	0.000	0.000	0.000	93.969 MCM

MOMENTARY PEAK 181.50 CMS, AT 2.95 M (A.D), AT 18.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 2.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

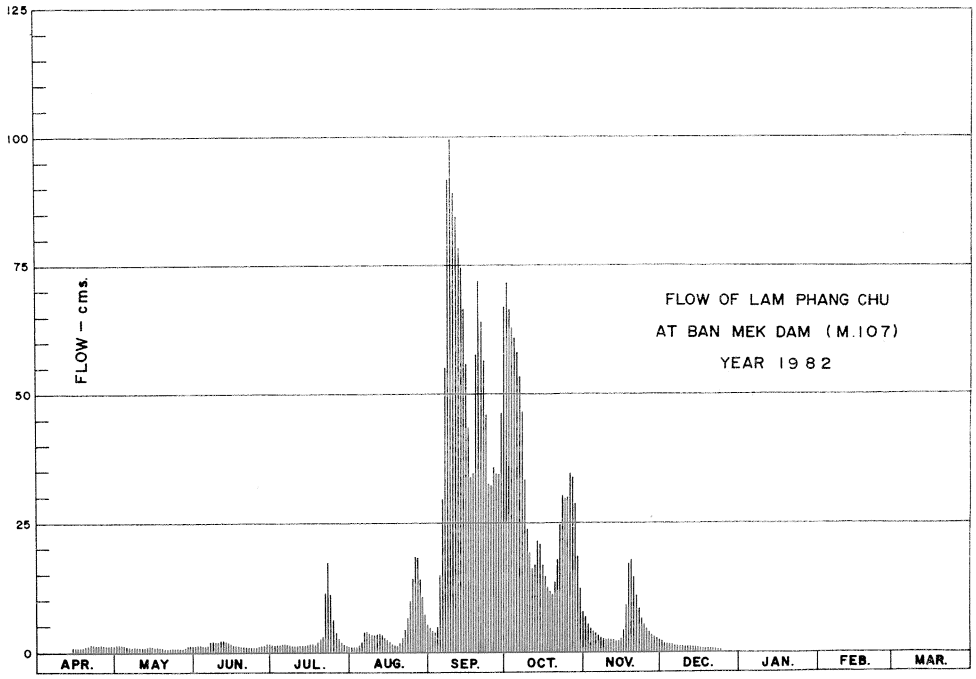
LAM PHANG CHU AT BAN MEK DAM, MAHA SARAKHAM (M.107)

LOCATION	LAT. 15°-32'-00" N., LONG. 103°-05'-29" E., ON RIGHT BANK AT WAT THA CHAI SI, BAN MEK DAM, TAMBON MEK DAM , AMPHOE PHAYAKKHAPHUM PHISAI, MAHA SARAKHAM.
DRAINAGE AREA	1,110 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+134.004 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+139.401 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1981 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981
RATED BY FLOAT	-
RATED BY CURRENT METER	1981
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.12	134.66	134.66	134.69	134.61	135.02	137.33	135.18	134.75	134.35	134.28	134.21	
2	134.12	134.66	134.70	134.68	134.59	134.97	137.23	135.11	134.73	134.34	134.28	134.21	
3	134.11	134.66	134.67	134.68	134.59	134.95	137.13	135.02	134.70	134.34	134.27	134.20	
4	134.10	134.65	134.63	134.68	134.65	135.03	137.10	134.98	134.68	134.33	134.27	134.19	
5	134.09	134.63	134.64	134.71	134.76	135.65	137.03	134.94	134.68	134.33	134.27	134.18	
6	134.09	134.59	134.63	134.71	134.97	136.34	136.89	134.91	134.65	134.33	134.27	134.18	
7	134.11	134.58	134.78	134.69	134.99	137.09	136.71	134.85	134.62	134.32	134.27	134.18	
8	134.14	134.58	134.77	134.68	134.95	137.77	136.41	134.82	134.60	134.32	134.26	134.17	
9	134.16	134.58	134.78	134.68	134.91	137.91	136.05	134.82	134.59	134.32	134.26	134.17	
10	134.17	134.57	134.77	134.68	134.91	137.71	135.86	134.82	134.58	134.32	134.26	134.17	
11	134.17	134.59	134.80	134.69	134.91	137.61	135.69	134.82	134.56	134.32	134.26	134.16	
12	134.23	134.60	134.79	134.69	134.96	137.51	135.71	134.80	134.55	134.32	134.26	134.16	
13	134.34	134.59	134.78	134.69	134.92	137.40	135.92	134.78	134.53	134.31	134.25	134.15	
14	134.43	134.60	134.76	134.69	134.89	137.24	135.90	134.79	134.51	134.31	134.25	134.14	
15	134.44	134.59	134.73	134.71	134.83	137.03	135.73	134.83	134.50	134.31	134.25	134.14	
16	134.48	134.59	134.70	134.72	134.76	136.71	135.61	135.07	134.49	134.31	134.24	134.13	
17	134.51	134.58	134.67	134.71	134.72	136.36	135.53	135.38	134.48	134.31	134.24	134.12	
18	134.51	134.58	134.65	134.71	134.67	136.39	135.47	135.73	134.46	134.31	134.24	134.12	
19	134.65	134.58	134.63	134.75	134.64	137.08	135.45	135.76	134.45	134.32	134.24	134.11	
20	134.68	134.53	134.61	134.81	134.72	137.34	135.59	135.60	134.44	134.33	134.23	134.10	
21	134.69	134.49	134.59	134.90	134.85	137.19	135.86	135.45	134.44	134.33	134.23	134.10	
22	134.68	134.50	134.58	135.44	135.03	136.97	136.11	135.32	134.43	134.32	134.23	134.09	
23	134.67	134.50	134.57	135.76	135.18	136.66	136.24	135.19	134.42	134.32	134.23	134.08	
24	134.67	134.50	134.57	135.48	135.40	136.32	136.23	135.10	134.41	134.31	134.22	134.08	
25	134.66	134.50	134.59	135.17	135.58	136.31	136.24	135.03	134.40	134.31	134.22	134.07	
26	134.66	134.50	134.63	134.98	135.79	136.42	136.38	134.97	134.40	134.30	134.22	134.07	
27	134.64	134.51	134.67	134.87	135.78	136.38	136.35	134.89	134.38	134.30	134.22	134.06	
28	134.64	134.56	134.70	134.79	135.60	136.38	136.18	134.85	134.37	134.29	134.22	134.05	
29	134.65	134.63	134.71	134.71	135.38	136.67	135.87	134.82	134.37	134.29		134.04	
30	134.66	134.63	134.73	134.66	135.22	137.22	135.52	134.79	134.36	134.29		134.04	
31		134.65		134.63	135.10		135.29		134.36	134.28		134.03	
MEAN	134.41	134.58	134.68	134.82	135.00	136.65	136.15	135.05	134.51	134.32	134.25	134.13	
MAX	134.69	134.66	134.80	135.76	135.79	137.91	137.33	135.76	134.75	134.35	134.28	134.21	137.91
MIN	134.09	134.49	134.57	134.63	134.59	134.95	135.29	134.78	134.36	134.28	134.22	134.03	134.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 138.00 M (MSL), AT 6.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 134.00 M (MSL), RIVER BED 133.55 M (MSL)
LEFT BANK ELEVATION 139.25 M (MSL)
RIGHT BANK ELEVATION 139.20 M (MSL), DRAINAGE AREA 1110 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	1.04	1.04	1.16	0.84	4.24	71.52	6.48	1.60	0.00	0.00	0.00	
2	0.00	1.04	1.20	1.12	0.76	3.70	67.26	5.36	1.44	0.00	0.00	0.00	
3	0.00	1.04	1.08	1.12	0.76	3.50	63.06	4.24	1.20	0.00	0.00	0.00	
4	0.00	1.00	0.92	1.12	1.00	4.36	61.80	3.80	1.12	0.00	0.00	0.00	
5	0.00	0.92	0.96	1.28	1.68	15.10	59.00	3.40	1.12	0.00	0.00	0.00	
6	0.00	0.76	0.92	1.28	3.70	33.08	53.40	3.10	1.00	0.00	0.00	0.00	
7	0.00	0.72	1.84	1.16	3.90	61.40	46.20	2.50	0.88	0.00	0.00	0.00	
8	0.00	0.72	1.76	1.12	3.50	92.36	35.34	2.20	0.80	0.00	0.00	0.00	
9	0.00	0.72	1.84	1.12	3.10	99.10	24.70	2.20	0.76	0.00	0.00	0.00	
10	0.00	0.68	1.76	1.12	3.10	89.48	19.84	2.20	0.72	0.00	0.00	0.00	
11	0.00	0.76	2.00	1.16	3.10	84.68	15.98	2.20	0.64	0.00	0.00	0.00	
12	0.00	0.80	1.92	1.16	3.60	79.88	16.42	2.00	0.60	0.00	0.00	0.00	
13	0.00	0.76	1.84	1.16	3.20	74.60	21.32	1.84	0.52	0.00	0.00	0.00	
14	0.12	0.80	1.68	1.16	2.90	67.68	20.80	1.92	0.44	0.00	0.00	0.00	
15	0.16	0.76	1.44	1.28	2.30	59.00	16.86	2.30	0.40	0.00	0.00	0.00	
16	0.32	0.76	1.20	1.36	1.68	46.20	14.22	4.84	0.36	0.00	0.00	0.00	
17	0.44	0.72	1.08	1.28	1.36	33.72	12.46	9.68	0.32	0.00	0.00	0.00	
18	0.44	0.72	1.00	1.28	1.08	34.68	11.26	16.86	0.24	0.00	0.00	0.00	
19	1.00	0.72	0.92	1.60	0.96	61.00	10.90	17.52	0.20	0.00	0.00	0.00	
20	1.12	0.52	0.84	2.10	1.36	71.96	13.78	14.00	0.16	0.00	0.00	0.00	
21	1.16	0.36	0.76	3.00	2.50	65.58	19.84	10.90	0.16	0.00	0.00	0.00	
22	1.12	0.40	0.72	10.72	4.36	56.60	26.28	8.72	0.12	0.00	0.00	0.00	
23	1.08	0.40	0.68	17.52	6.48	44.28	30.00	6.64	0.08	0.00	0.00	0.00	
24	1.08	0.40	0.68	11.44	10.00	32.44	29.70	5.20	0.04	0.00	0.00	0.00	
25	1.04	0.40	0.76	6.32	13.56	32.12	30.00	4.36	0.00	0.00	0.00	0.00	
26	1.04	0.40	0.92	3.80	18.18	35.68	34.36	3.70	0.00	0.00	0.00	0.00	
27	0.96	0.44	1.08	2.70	17.96	34.36	33.40	2.90	0.00	0.00	0.00	0.00	
28	0.96	0.64	1.20	1.92	14.00	34.36	28.24	2.50	0.00	0.00	0.00	0.00	
29	1.00	0.92	1.28	1.28	9.68	44.66	20.08	2.20	0.00	0.00		0.00	
30	1.04	0.92	1.44	1.04	7.12	66.84	12.24	1.92	0.00	0.00		0.00	
31		1.00		0.92	5.20		8.24		0.00	0.00		0.00	
TOTAL	14.08	22.24	36.76	85.80	152.92	1466.64	928.50	157.68	14.92	0.00	0.00	0.00	2879.54 CMSDAY
MEAN	0.47	0.72	1.23	2.77	4.93	48.89	29.95	5.26	0.48	0.00	0.00	0.00	7.89 CMS
MAX	1.16	1.04	2.00	17.52	18.18	99.10	71.52	17.52	1.60	0.00	0.00	0.00	99.10 CMS
MIN	0.00	0.36	0.68	0.92	0.76	3.50	8.24	1.84	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.217	1.922	3.176	7.413	13.212	126.718	80.222	13.624	1.289	0.000	0.000	0.000	248.792 MCM

MOMENTARY PEAK 103.60 CMS, AT 138.00 M (MSL), AT 6.00 HOURS, ON SEP 9, 1982

RUNOFF YIELD 7.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 93.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MUN RIVER BASIN

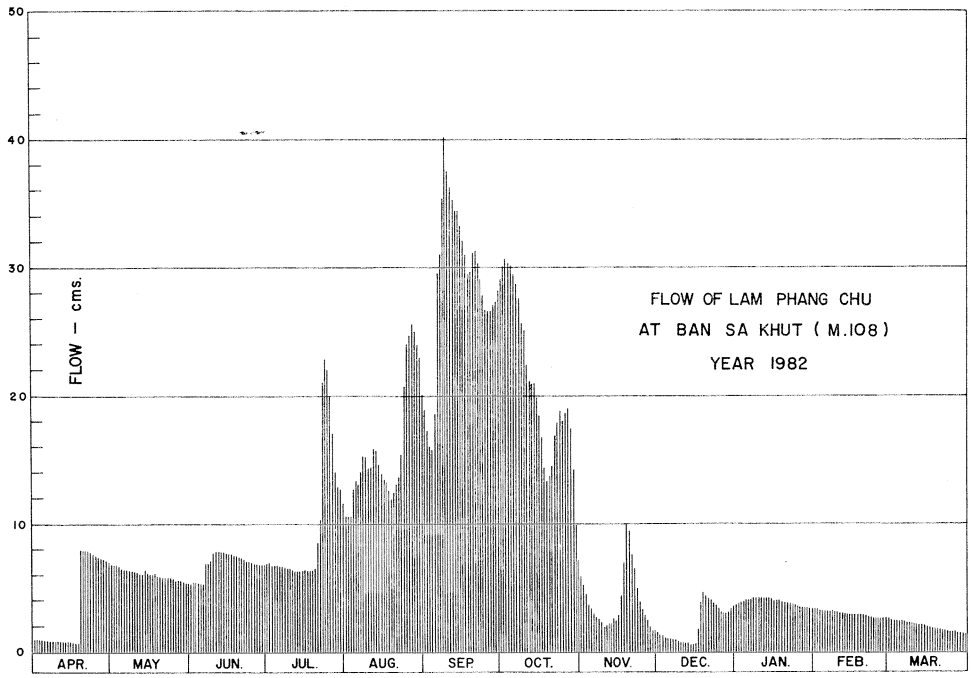
LAM PHANG CHU AT BAN SA KHUT, SURIN (M.108)

LOCATION	LAT. 15°-27'-15" N., LONG. 103°-06'-42" E., ON RIGHT BANK AT BAN SA KHUT, TAMBON SA KHUT, AMPHOE CHUMPHON BURI, SURIN.
DRAINAGE AREA	1,156 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDE.
ELEVATION	+5.382 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981
RATED BY FLOAT	-
RATED BY CURRENT METER	1981
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 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.87	0.69	0.87	1.21	1.85	2.59	0.79	0.17	0.48	0.45	0.34	
2	0.07	0.86	0.71	0.86	1.21	1.73	2.64	0.69	0.14	0.50	0.45	0.33	
3	0.07	0.85	0.70	0.85	1.21	1.64	2.63	0.60	0.13	0.52	0.44	0.33	
4	0.06	0.84	0.70	0.85	1.39	1.63	2.61	0.48	0.09	0.52	0.44	0.32	
5	0.05	0.83	0.70	0.84	1.43	1.85	2.60	0.46	0.08	0.53	0.44	0.31	
6	0.04	0.82	0.68	0.84	1.42	2.57	2.56	0.42	0.08	0.53	0.43	0.31	
7	0.04	0.82	0.87	0.84	1.53	2.65	2.51	0.36	0.06	0.54	0.43	0.30	
8	0.03	0.81	0.86	0.83	1.58	2.88	2.43	0.34	0.03	0.55	0.43	0.29	
9	0.04	0.80	0.89	0.82	1.57	3.23	2.32	0.29	0.02	0.56	0.42	0.28	
10	0.04	0.79	0.95	0.82	1.51	3.07	2.26	0.23	-0.01	0.55	0.42	0.28	
11	0.03	0.79	0.96	0.81	1.53	3.01	2.09	0.27	-0.02	0.55	0.41	0.28	
12	0.03	0.78	0.97	0.80	1.63	2.94	2.00	0.28	-0.02	0.55	0.41	0.27	
13	0.02	0.78	0.96	0.80	1.61	2.88	1.98	0.28	-0.03	0.55	0.41	0.26	
14	0.02	0.80	0.96	0.80	1.53	2.88	1.99	0.35	-0.04	0.54	0.40	0.26	
15	0.01	0.79	0.95	0.80	1.49	2.83	1.90	0.32	-0.04	0.54	0.40	0.25	
16	0.01	0.78	0.94	0.81	1.44	2.75	1.78	0.41	-0.03	0.53	0.39	0.24	
17	0.00	0.77	0.94	0.80	1.43	2.64	1.68	0.60	0.29	0.53	0.39	0.24	
18	0.00	0.77	0.93	0.80	1.38	2.56	1.52	0.89	0.50	0.53	0.38	0.23	
19	0.98	0.76	0.92	0.80	1.32	2.57	1.43	1.15	0.60	0.52	0.38	0.22	
20	0.97	0.75	0.92	0.80	1.35	2.67	1.48	1.10	0.58	0.52	0.38	0.22	
21	0.97	0.75	0.91	1.04	1.43	2.68	1.55	0.95	0.56	0.51	0.37	0.21	
22	0.96	0.74	0.90	1.19	1.49	2.63	1.71	0.84	0.53	0.50	0.36	0.20	
23	0.95	0.74	0.89	1.89	1.59	2.54	1.80	0.71	0.51	0.50	0.36	0.19	
24	0.94	0.74	0.88	2.12	2.15	2.43	1.83	0.58	0.48	0.48	0.35	0.19	
25	0.93	0.73	0.88	2.05	2.21	2.37	1.79	0.46	0.46	0.47	0.35	0.18	
26	0.92	0.72	0.87	1.85	2.27	2.37	1.83	0.41	0.42	0.47	0.35	0.18	
27	0.91	0.72	0.86	1.66	2.31	2.37	1.86	0.35	0.40	0.46	0.35	0.17	
28	0.90	0.71	0.86	1.50	2.29	2.40	1.76	0.25	0.38	0.46	0.35	0.16	
29	0.89	0.71	0.85	1.40	2.22	2.42	1.57	0.21	0.42	0.46		0.15	
30	0.88	0.70	0.85	1.39	2.15	2.49	1.23	0.20	0.45	0.46		0.15	
31		0.70		1.31	1.99		0.98		0.47	0.46		0.14	
MEAN	0.39	0.77	0.86	1.09	1.64	2.52	1.96	0.51	0.25	0.51	0.40	0.24	
MAX	0.98	0.87	0.97	2.12	2.31	3.23	2.64	1.15	0.60	0.56	0.45	0.34	3.23
MIN	0.00	0.70	0.68	0.80	1.21	1.63	0.98	0.20	-0.04	0.46	0.35	0.14	-0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.25 M (A.D), AT 6.00 HOURS, ON SEP 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.33 M (A.D)
LEFT BANK ELEVATION 5.14 M (A.D)
RIGHT BANK ELEVATION 5.13 M (A.D), DRAINAGE AREA 1156 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.07	6.93	5.32	6.93	10.62	19.00	29.85	6.21	1.53	3.64	3.40	2.61	
2	1.03	6.84	5.49	6.84	10.62	17.32	30.64	5.32	1.37	3.80	3.40	2.55	
3	1.03	6.75	5.40	6.75	10.62	16.06	30.48	4.60	1.31	3.96	3.32	2.55	
4	0.99	6.66	5.40	6.75	12.78	15.92	30.16	3.64	1.11	3.96	3.32	2.48	
5	0.95	6.57	5.40	6.66	13.29	19.00	30.00	3.48	1.07	4.04	3.32	2.42	
6	0.91	6.48	5.24	6.66	13.16	29.55	29.40	3.16	1.07	4.04	3.24	2.42	
7	0.91	6.48	6.93	6.66	14.59	30.80	28.65	2.74	0.99	4.12	3.24	2.35	
8	0.87	6.39	6.84	6.57	15.24	34.48	27.45	2.61	0.87	4.20	3.24	2.28	
9	0.91	6.30	7.11	6.48	15.11	40.08	25.80	2.28	0.83	4.28	3.16	2.22	
10	0.91	6.21	7.75	6.48	14.33	37.52	24.90	1.90	0.71	4.20	3.16	2.22	
11	0.87	6.21	7.86	6.39	14.59	36.56	22.36	2.16	0.67	4.20	3.08	2.22	
12	0.87	6.12	7.97	6.30	15.92	35.44	21.10	2.22	0.67	4.20	3.08	2.16	
13	0.83	6.12	7.86	6.30	15.64	34.48	20.82	2.22	0.63	4.20	3.08	2.09	
14	0.83	6.30	7.86	6.30	14.59	34.48	20.96	2.68	0.59	4.12	3.00	2.09	
15	0.79	6.21	7.75	6.30	14.07	33.68	19.70	2.48	0.59	4.12	3.00	2.03	
16	0.79	6.12	7.64	6.39	13.42	32.40	18.02	3.08	0.63	4.04	2.94	1.96	
17	0.75	6.03	7.64	6.30	13.29	30.64	16.62	4.60	2.28	4.04	2.94	1.96	
18	0.75	6.03	7.53	6.30	12.66	29.40	14.46	7.11	3.80	4.04	2.87	1.90	
19	8.08	5.94	7.42	6.30	11.94	29.55	13.29	9.95	4.60	3.96	2.87	1.83	
20	7.97	5.85	7.42	6.30	12.30	31.12	13.94	9.40	4.44	3.96	2.87	1.83	
21	7.97	5.85	7.31	8.74	13.29	31.28	14.85	7.75	4.28	3.88	2.81	1.77	
22	7.86	5.76	7.20	10.39	14.07	30.48	17.04	6.66	4.04	3.80	2.74	1.70	
23	7.75	5.76	7.11	19.56	15.37	29.10	18.30	5.49	3.88	3.80	2.74	1.65	
24	7.64	5.76	7.02	22.80	23.25	27.45	18.72	4.44	3.64	3.64	2.68	1.65	
25	7.53	5.67	7.02	21.80	24.15	26.55	18.16	3.48	3.48	3.56	2.68	1.59	
26	7.42	5.58	6.93	19.00	25.05	26.55	18.72	3.08	3.16	3.56	2.68	1.59	
27	7.31	5.58	6.84	16.34	25.65	26.55	19.14	2.68	3.00	3.48	2.68	1.53	
28	7.20	5.49	6.84	14.20	25.35	27.00	17.74	2.03	2.87	3.48	2.68	1.48	
29	7.11	5.49	6.75	12.90	24.30	27.30	15.11	1.77	3.16	3.48		1.43	
30	7.02	5.40	6.75	12.78	23.25	28.35	10.86	1.70	3.40	3.48		1.43	
31		5.40		11.82	20.96		8.08		3.56	3.48		1.37	
TOTAL	106.92	188.28	207.60	300.29	503.47	868.09	645.32	120.92	68.23	120.76	84.22	61.36	3275.46 CMSDAY
MEAN	3.56	6.07	6.92	9.69	16.24	28.94	20.82	4.03	2.20	3.90	3.01	1.98	8.97 CMS
MAX	8.08	6.93	7.97	22.80	25.65	40.08	30.64	9.95	4.60	4.28	3.40	2.61	40.08 CMS
MIN	0.75	5.40	5.24	6.30	10.62	15.92	8.08	1.70	0.59	3.48	2.68	1.37	0.59 CMS
RUNOFF	9.238	16.267	17.937	25.945	43.500	75.003	55.756	10.447	5.895	10.434	7.277	5.302	283.000 MCM

MOMENTARY PEAK 40.40 CMS, AT 3.25 M (A.D), AT 6.00 HOURS, ON SEP 9, 1982

RUNOFF YIELD 7.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 34.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

TONLE SAP BASIN

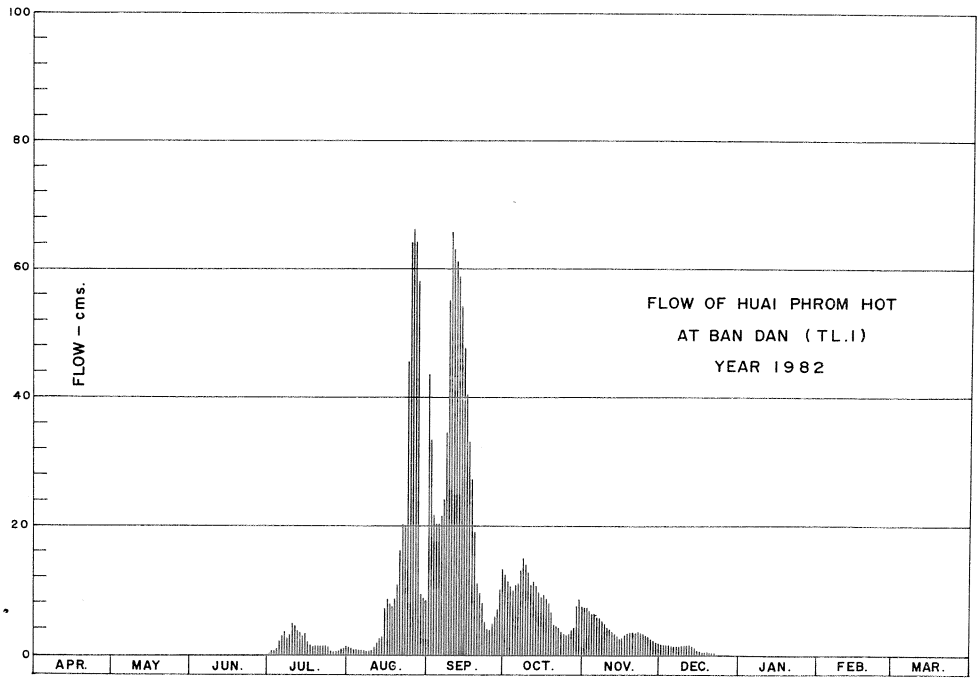
HUAI PHROM HOT AT BAN DAN, PRACHIN BURI (TL.1)

LOCATION	LAT. 13°-43'-12" N., LONG. 102°-28'-06" E., ON LEFT BANK NEAR THE BRIDGE OF PRACHIN BURI-ARANYAPRATHET HIGHWAY, ABOUT 7 KILOMETERS WEST OF ARANYAPRATHET, AMPHOE ARANYAPRATHET, PRACHIN BURI.
DRAINAGE AREA	571 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+6.02 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1964-1965, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1964-1965, 1982 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 28 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.82	0.83	0.98	1.41	5.83	3.61	2.84	1.57	0.97	0.85	0.88	
2	0.81	0.82	0.83	0.98	1.24	5.43	3.46	2.82	1.54	0.88	0.85	0.87	
3	0.81	0.82	0.85	1.17	1.22	4.96	3.35	2.76	1.53	0.88	0.85	0.87	
4	0.81	0.82	0.85	1.22	1.25	4.67	3.24	2.69	1.51	0.91	0.85	0.87	
5	0.81	0.81	0.89	1.70	1.30	4.56	3.40	2.72	1.49	0.93	0.85	0.87	
6	0.81	0.81	0.85	1.95	1.23	4.63	3.40	2.58	1.45	0.89	0.85	0.87	
7	0.81	0.82	0.85	2.05	1.24	4.87	3.60	2.54	1.38	0.87	0.84	0.86	
8	0.81	0.82	0.84	1.85	1.22	5.68	3.94	2.49	1.46	0.87	0.84	0.85	
9	0.81	0.82	0.84	1.94	1.25	6.34	3.83	2.35	1.47	0.87	0.84	0.85	
10	0.81	0.82	0.86	2.33	1.19	6.43	3.66	2.25	1.48	0.87	0.84	0.85	
11	0.81	0.81	0.87	2.31	1.41	6.36	3.41	2.16	1.48	0.87	0.85	0.85	
12	0.81	0.81	0.87	2.11	1.63	6.32	3.45	2.05	1.46	0.85	0.85	0.85	
13	0.81	0.81	0.86	2.07	1.88	6.26	3.39	1.95	1.41	0.85	0.85	0.85	
14	0.81	0.84	0.86	1.96	1.89	6.13	3.25	1.90	1.30	0.85	0.85	0.85	
15	0.81	0.82	0.85	2.06	2.76	5.95	3.06	1.85	1.21	0.85	0.85	0.85	
16	0.83	0.84	0.84	1.73	3.03	5.68	3.17	1.80	1.18	0.85	0.85	0.85	
17	0.82	0.82	0.84	1.57	2.95	5.28	3.08	1.96	1.12	0.85	0.85	0.85	
18	0.82	0.82	0.84	1.45	2.85	4.94	2.95	2.00	1.08	0.85	0.85	0.85	
19	0.82	0.82	0.84	1.49	3.06	4.36	2.72	2.03	1.07	0.85	0.85	0.85	
20	0.82	0.82	0.84	1.55	3.56	3.67	2.37	2.06	1.05	0.87	0.85	0.85	
21	0.82	0.82	0.84	1.52	4.04	3.27	2.30	2.03	1.03	0.87	0.85	0.84	
22	0.82	0.82	0.83	1.54	4.43	2.93	2.18	2.08	1.01	0.87	0.85	0.84	
23	0.82	0.83	0.83	1.54	4.60	2.53	2.07	2.08	1.00	0.87	0.85	0.83	
24	0.82	0.83	0.83	1.43	5.85	2.16	1.99	1.98	0.97	0.85	0.85	0.83	
25	0.81	0.83	0.83	1.20	6.39	2.24	2.02	1.92	0.94	0.85	0.85	0.83	
26	0.81	0.82	0.83	1.19	6.45	2.45	2.00	1.87	0.91	0.85	0.85	0.83	
27	0.82	0.82	0.84	1.18	6.39	2.64	2.14	1.79	0.92	0.85	0.85	0.83	
28	0.82	0.83	0.84	1.19	6.27	2.87	2.29	1.69	0.92	0.85	0.85	0.83	
29	0.82	0.83	0.85	1.30	3.19	3.29	2.89	1.59	0.92	0.85		0.84	
30	0.82	0.83	0.96	1.38	3.11	3.74	3.06	1.57	0.91	0.85		0.84	
31		0.84		1.54	3.00		2.87		0.91	0.85		0.84	
MEAN	0.81	0.82	0.85	1.60	2.94	4.55	2.97	2.15	1.22	0.87	0.85	0.85	
MAX	0.83	0.84	0.96	2.33	6.45	6.43	3.94	2.84	1.57	0.97	0.85	0.88	6.45
MIN	0.81	0.81	0.83	0.98	1.19	2.16	1.99	1.57	0.91	0.85	0.84	0.83	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.47 M (MSL), AT 6.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 0.00 M (MSL)
LEFT BANK ELEVATION 7.92 M (MSL)
RIGHT BANK ELEVATION 7.89 M (MSL), DRAINAGE AREA 571 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.93	43.40	12.27	7.14	1.41	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.48	33.63	11.22	7.02	1.32	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.34	0.44	25.64	10.45	6.66	1.29	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.44	0.50	21.94	9.68	6.25	1.23	0.00	0.00	0.00	
5	0.00	0.00	0.00	1.80	0.60	20.66	10.80	6.42	1.17	0.00	0.00	0.00	
6	0.00	0.00	0.00	2.80	0.46	21.46	10.80	5.70	1.05	0.00	0.00	0.00	
7	0.00	0.00	0.00	3.20	0.48	24.41	12.20	5.50	0.84	0.00	0.00	0.00	
8	0.00	0.00	0.00	2.40	0.44	39.38	14.82	5.25	1.08	0.00	0.00	0.00	
9	0.00	0.00	0.00	2.76	0.50	61.36	13.94	4.55	1.11	0.00	0.00	0.00	
10	0.00	0.00	0.00	4.45	0.38	65.50	12.62	4.05	1.14	0.00	0.00	0.00	
11	0.00	0.00	0.00	4.35	0.93	62.24	10.87	3.64	1.14	0.00	0.00	0.00	
12	0.00	0.00	0.00	3.44	1.59	60.48	11.15	3.20	1.08	0.00	0.00	0.00	
13	0.00	0.00	0.00	3.28	2.52	57.96	10.73	2.80	0.93	0.00	0.00	0.00	
14	0.00	0.00	0.00	2.84	2.56	53.05	9.75	2.60	0.60	0.00	0.00	0.00	
15	0.00	0.00	0.00	3.24	6.66	47.05	8.46	2.40	0.42	0.00	0.00	0.00	
16	0.00	0.00	0.00	1.92	8.28	39.38	9.19	2.20	0.36	0.00	0.00	0.00	
17	0.00	0.00	0.00	1.41	7.80	30.64	8.58	2.84	0.24	0.00	0.00	0.00	
18	0.00	0.00	0.00	1.05	7.20	25.36	7.80	3.00	0.16	0.00	0.00	0.00	
19	0.00	0.00	0.00	1.17	8.46	18.50	6.42	3.12	0.14	0.00	0.00	0.00	
20	0.00	0.00	0.00	1.35	11.92	12.69	4.65	3.24	0.10	0.00	0.00	0.00	
21	0.00	0.00	0.00	1.26	15.62	9.89	4.30	3.12	0.06	0.00	0.00	0.00	
22	0.00	0.00	0.00	1.32	19.23	7.68	3.72	3.32	0.02	0.00	0.00	0.00	
23	0.00	0.00	0.00	1.32	21.10	5.45	3.28	3.32	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.99	44.00	3.64	2.96	2.92	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.40	63.56	4.00	3.08	2.68	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.38	66.50	5.05	3.00	2.48	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.36	63.56	6.00	3.56	2.16	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.38	58.37	7.32	4.25	1.77	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.60	9.33	10.03	7.44	1.47	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.84	8.77	13.22	8.46	1.41	0.00	0.00		0.00	
31		0.00		1.32	8.10		7.32		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	51.41	441.27	837.01	257.77	112.23	16.89	0.00	0.00	0.00	1716.58 CMSDAY
MEAN	0.00	0.00	0.00	1.66	14.23	27.90	8.32	3.74	0.54	0.00	0.00	0.00	4.70 CMS
MAX	0.00	0.00	0.00	4.45	66.50	65.50	14.82	7.14	1.41	0.00	0.00	0.00	66.50 CMS
MIN	0.00	0.00	0.00	0.00	0.38	3.64	2.96	1.41	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	4.442	38.126	72.318	22.271	9.697	1.459	0.000	0.000	0.000	148.313 MCM

MOMENTARY PEAK 67.50 CMS, AT 6.47 M (MSL), AT 6.00 HOURS, ON AUG 26, 1982

RUNOFF YIELD 8.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 118.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

NAKHON NAYOK RIVER BASIN

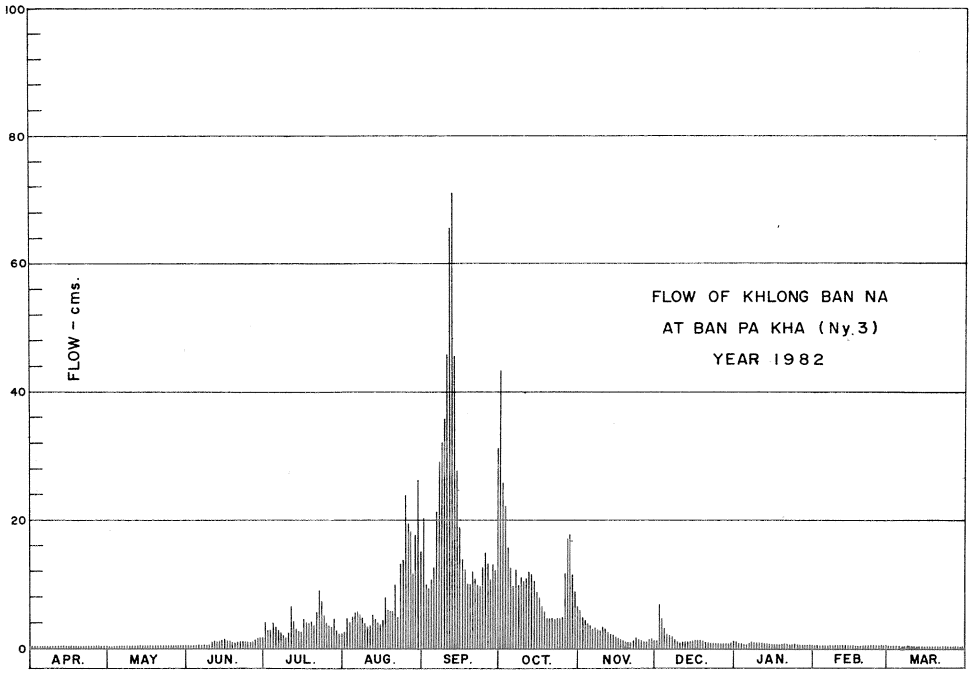
KHLONG BAN NA AT BAN PA KHA, NAKHON NAYOK (NY.3)

LOCATION	LAT. 14°-17'-07" N., LONG. 101°-04'-26" E,, ON LEFT BANK NEAR WAT BAN PA KHA, TAMBON PA KHA, AMPHOE BAN NA, NAKHON NAYOK.
DRAINAGE AREA	203 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+5.168 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 - 1978, 1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 - 1978, 1980.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 65 DISCHARGE MEASUREMENTS MADE DURING 1977-1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.61	0.66	1.26	1.08	2.49	3.82	1.44	0.84	0.79	0.70	0.57	
2	0.60	0.60	0.66	1.10	1.34	1.79	2.84	1.32	1.53	0.74	0.71	0.57	
3	0.56	0.62	0.70	1.10	1.23	1.73	2.61	1.33	1.26	0.72	0.64	0.58	
4	0.58	0.61	0.67	1.25	1.32	1.85	2.22	1.24	1.13	0.70	0.62	0.56	
5	0.56	0.60	0.65	1.19	1.41	1.99	1.97	1.22	1.04	0.70	0.70	0.57	
6	0.55	0.62	0.68	1.13	1.44	2.59	1.74	1.13	1.02	0.71	0.61	0.55	
7	0.56	0.64	0.67	1.06	1.41	2.90	1.97	1.16	0.98	0.81	0.65	0.55	
8	0.57	0.63	0.69	1.02	1.32	3.18	1.77	1.12	0.88	0.81	0.61	0.56	
9	0.62	0.62	0.68	0.94	1.19	3.40	1.86	1.12	0.85	0.78	0.58	0.53	
10	0.59	0.61	0.75	1.08	1.13	3.93	1.83	1.16	0.77	0.82	0.62	0.51	
11	0.56	0.64	0.83	1.50	1.17	4.91	1.86	1.11	0.85	0.74	0.61	0.54	
12	0.60	0.63	0.82	1.32	1.37	5.19	1.94	1.07	0.83	0.73	0.58	0.51	
13	0.60	0.60	0.82	1.14	1.30	3.82	1.91	1.05	0.82	0.74	0.58	0.56	
14	0.57	0.65	0.84	1.08	1.25	2.85	1.84	1.01	0.81	0.71	0.59	0.54	
15	0.58	0.64	0.88	1.07	1.16	2.42	1.69	0.97	0.83	0.69	0.60	0.55	
16	0.60	0.64	0.85	1.34	1.27	2.08	1.63	0.95	0.88	0.65	0.62	0.56	
17	0.58	0.65	0.83	1.26	1.61	2.01	1.51	0.91	0.87	0.67	0.61	0.55	
18	0.57	0.63	0.77	1.24	1.43	1.80	1.40	0.88	0.85	0.68	0.59	0.53	
19	0.59	0.61	0.75	1.30	1.44	1.74	1.31	0.83	0.84	0.65	0.59	0.54	
20	0.59	0.60	0.75	1.18	1.43	1.94	1.31	0.82	0.83	0.68	0.61	0.51	
21	0.60	0.62	0.81	1.48	1.78	1.86	1.32	0.78	0.77	0.72	0.61	0.55	
22	0.62	0.62	0.83	1.72	1.33	1.76	1.30	0.84	0.77	0.62	0.61	0.54	
23	0.67	0.60	0.82	1.53	1.99	1.76	1.33	0.95	0.76	0.66	0.63	0.51	
24	0.65	0.61	0.82	1.40	2.03	2.00	1.34	0.91	0.75	0.73	0.61	0.58	
25	0.64	0.63	0.80	1.22	2.71	2.14	1.32	0.89	0.74	0.69	0.59	0.52	
26	0.62	0.65	0.80	1.18	2.46	2.05	2.59	0.86	0.72	0.65	0.59	0.46	
27	0.63	0.63	0.85	1.15	2.34	1.83	2.28	0.86	0.76	0.62	0.60	0.52	
28	0.61	0.61	0.95	1.30	1.93	2.00	2.32	0.85	0.74	0.61	0.58	0.51	
29	0.60	0.64	0.94	1.08	2.51	1.94	1.94	0.93	0.74	0.71		0.52	
30	0.60	0.67	0.95	1.04	2.86	3.10	1.73	0.86	0.72	0.67		0.51	
31		0.67		1.01	2.15		1.52		0.83	0.69		0.50	
MEAN	0.60	0.63	0.78	1.22	1.63	2.50	1.87	1.02	0.87	0.71	0.62	0.54	
MAX	0.67	0.67	0.95	1.72	2.86	5.19	3.82	1.44	1.53	0.82	0.71	0.58	5.19
MIN	0.55	0.60	0.65	0.94	1.08	1.73	1.30	0.78	0.72	0.61	0.58	0.46	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.37 M (A.D), AT 6.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.37 M (A.D)
LEFT BANK ELEVATION 6.75 M (A.D)
RIGHT BANK ELEVATION 6.79 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.28	0.32	0.42	4.01	2.54	20.24	43.23	5.77	1.03	0.82	0.50	0.27	
2	0.30	0.30	0.42	2.70	4.75	9.93	25.98	4.55	6.76	0.64	0.53	0.27	
3	0.26	0.34	0.50	2.70	3.76	9.18	22.16	4.65	4.01	0.57	0.38	0.28	
4	0.28	0.32	0.44	3.93	4.55	10.73	16.01	3.84	2.94	0.50	0.34	0.26	
5	0.26	0.30	0.40	3.42	5.46	12.66	12.38	3.67	2.22	0.50	0.50	0.27	
6	0.25	0.34	0.46	2.94	5.77	21.84	9.30	2.94	2.06	0.53	0.32	0.25	
7	0.26	0.38	0.44	2.38	5.46	27.00	12.38	3.18	1.78	0.90	0.40	0.25	
8	0.27	0.36	0.48	2.06	4.55	31.76	9.68	2.86	1.21	0.90	0.32	0.26	
9	0.34	0.34	0.46	1.54	3.42	35.60	10.86	2.86	1.08	0.78	0.28	0.23	
10	0.29	0.32	0.68	2.54	2.94	45.32	10.46	3.18	0.74	0.94	0.34	0.21	
11	0.26	0.38	0.98	6.40	3.26	65.04	10.86	2.78	1.08	0.64	0.32	0.24	
12	0.30	0.36	0.94	4.55	5.05	71.08	11.96	2.46	0.98	0.61	0.28	0.21	
13	0.30	0.30	0.94	3.02	4.35	43.23	11.54	2.30	0.94	0.64	0.28	0.26	
14	0.27	0.40	1.03	2.54	3.93	26.15	10.59	1.98	0.90	0.53	0.29	0.24	
15	0.28	0.38	1.21	2.46	3.18	19.12	8.68	1.72	0.98	0.48	0.30	0.25	
16	0.30	0.38	1.08	4.75	4.09	13.96	7.96	1.60	1.21	0.40	0.34	0.26	
17	0.28	0.40	0.98	4.01	7.72	12.94	6.52	1.36	1.17	0.44	0.32	0.25	
18	0.27	0.36	0.74	3.84	5.66	10.05	5.35	1.21	1.08	0.46	0.29	0.23	
19	0.29	0.32	0.68	4.35	5.77	9.30	4.45	0.98	1.03	0.40	0.29	0.24	
20	0.29	0.30	0.68	3.34	5.66	11.96	4.45	0.94	0.98	0.46	0.32	0.21	
21	0.30	0.34	0.90	6.19	9.80	10.86	4.55	0.78	0.74	0.57	0.32	0.25	
22	0.34	0.34	0.98	9.05	4.65	9.55	4.35	1.03	0.74	0.34	0.32	0.24	
23	0.44	0.30	0.94	6.76	12.66	9.55	4.65	1.60	0.71	0.42	0.36	0.21	
24	0.40	0.32	0.94	5.35	13.23	12.80	4.75	1.36	0.68	0.61	0.32	0.28	
25	0.38	0.36	0.85	3.67	23.81	14.83	4.55	1.26	0.64	0.48	0.29	0.22	
26	0.34	0.40	0.85	3.34	19.76	13.52	21.84	1.12	0.57	0.40	0.29	0.16	
27	0.36	0.36	1.08	3.10	17.87	10.46	16.94	1.12	0.71	0.34	0.30	0.22	
28	0.32	0.32	1.60	4.35	11.82	12.80	17.56	1.08	0.64	0.32	0.28	0.21	
29	0.30	0.38	1.54	2.54	20.56	11.96	11.96	1.48	0.64	0.53		0.22	
30	0.30	0.44	1.60	2.22	26.32	30.40	9.18	1.12	0.57	0.44		0.21	
31		0.44		1.98	14.98		6.64		0.98	0.48		0.20	
TOTAL	9.11	10.90	25.24	116.03	267.33	643.82	361.77	66.78	41.80	17.07	9.42	7.36	1576.63 CMSDAY
MEAN	0.30	0.35	0.84	3.74	8.62	21.46	11.67	2.23	1.35	0.55	0.34	0.24	4.32 CMS
MAX	0.44	0.44	1.60	9.05	26.32	71.08	43.23	5.77	6.76	0.94	0.53	0.28	71.08 CMS
MIN	0.25	0.30	0.40	1.54	2.54	9.18	4.35	0.78	0.57	0.32	0.28	0.16	0.16 CMS
RUNOFF	0.787	0.942	2.181	10.025	23.097	55.626	31.257	5.770	3.612	1.475	0.814	0.636	136.221 MCM

MOMENTARY PEAK 75.18 CMS, AT 5.37 M (A.D), AT 6.00 HOURS, ON SEP 12, 1982

RUNOFF YIELD 21.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 370.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

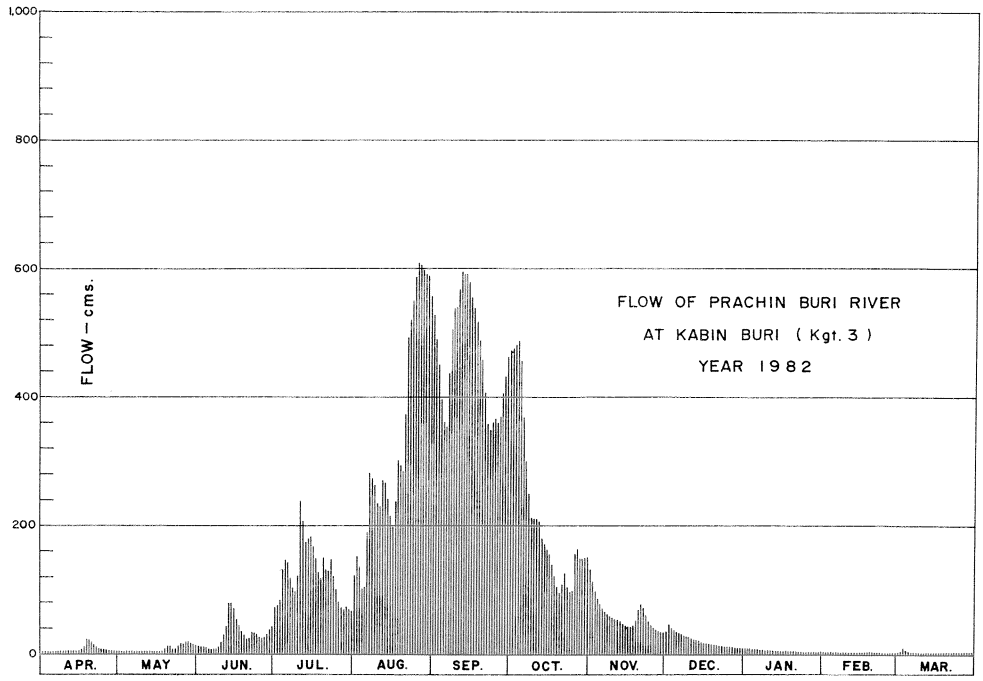
PRACHIN BURI RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION	LAT. 13°-59'-05" N., LONG. 101°-42'-32" E., ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE AND ABOUT 500 METERS DOWNSTREAM FROM THE CONFLUENCE OF LAM PRONG AND LAM HANUMAN, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	7,502 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	-0.49 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE.
ELEVATION	+10.795 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1941 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1941-1943, 1945, 1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1941-1943, 1945, 1964 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +9.43 M.(A.D.),RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.67	1.10	2.87	3.76	8.93	8.27	3.99	1.92	0.94	0.67	0.64	
2	0.62	0.63	1.04	2.98	4.35	8.48	8.30	3.68	2.26	0.92	0.67	0.77	
3	0.60	0.61	1.04	3.17	4.12	8.06	8.34	3.42	2.13	0.90	0.66	0.94	
4	0.60	0.56	0.97	4.02	3.51	7.53	8.42	3.19	2.00	0.90	0.66	0.84	
5	0.63	0.54	0.88	4.31	3.59	7.10	8.06	3.01	1.91	0.88	0.68	0.75	
6	0.60	0.51	0.86	4.25	5.04	6.98	7.15	2.86	1.86	0.88	0.66	0.70	
7	0.58	0.51	0.83	3.82	6.17	7.83	6.33	2.79	1.81	0.86	0.66	0.67	
8	0.58	0.51	0.84	3.52	6.07	8.62	5.72	2.66	1.75	0.85	0.65	0.65	
9	0.68	0.51	1.02	3.43	5.94	8.91	5.29	2.60	1.67	0.85	0.65	0.63	
10	0.69	0.60	1.35	3.87	5.57	8.95	5.28	2.52	1.61	0.84	0.64	0.62	
11	0.63	0.58	1.68	5.64	5.52	9.28	5.27	2.48	1.57	0.82	0.64	0.61	
12	0.58	0.61	2.15	5.26	6.02	9.48	5.19	2.50	1.54	0.81	0.63	0.60	
13	0.67	0.57	3.02	4.73	5.99	9.45	4.82	2.43	1.50	0.80	0.65	0.58	
14	0.68	0.57	3.08	4.82	5.71	9.44	4.72	2.34	1.43	0.79	0.65	0.57	
15	0.72	0.56	2.87	4.87	5.38	9.33	4.58	2.25	1.39	0.78	0.63	0.56	
16	0.67	0.61	2.54	4.65	5.05	9.12	4.44	2.21	1.34	0.77	0.67	0.55	
17	0.65	0.61	2.24	4.45	5.52	8.93	4.16	2.21	1.30	0.76	0.70	0.55	
18	1.08	0.68	1.96	3.96	6.40	8.65	3.82	2.31	1.28	0.76	0.75	0.54	
19	1.47	0.89	1.69	3.76	6.34	8.39	3.55	2.43	1.25	0.75	0.73	0.54	
20	1.55	1.13	1.53	4.36	6.21	8.04	3.36	2.91	1.21	0.74	0.70	0.53	
21	1.42	1.14	1.60	4.04	7.18	7.52	3.65	3.02	1.16	0.74	0.68	0.52	
22	1.16	0.94	1.88	3.99	8.48	7.06	3.96	2.87	1.13	0.72	0.66	0.51	
23	1.03	0.94	1.87	4.28	8.82	6.94	3.56	2.58	1.11	0.70	0.65	0.50	
24	0.94	1.17	1.75	3.85	9.06	7.08	3.39	2.35	1.08	0.70	0.64	0.50	
25	0.89	1.29	1.63	3.39	9.40	7.16	3.46	2.22	1.06	0.70	0.63	0.49	
26	0.88	1.24	1.59	3.07	9.60	7.06	4.39	2.13	1.08	0.70	0.65	0.50	
27	0.83	1.42	1.70	2.90	9.59	7.20	4.62	2.05	1.07	0.69	0.64	0.49	
28	0.80	1.34	1.86	2.93	9.49	7.58	4.34	2.00	1.01	0.68	0.66	0.48	
29	0.76	1.26	2.03	2.96	9.46	7.92	4.34	1.95	0.98	0.68		0.48	
30	0.71	1.22	2.31	2.86	9.41	8.15	4.36	1.91	0.96	0.68		0.47	
31		1.14		2.83	9.21		4.37		0.95	0.68		0.46	
MEAN	0.81	0.82	1.70	3.87	6.64	8.17	5.15	2.60	1.43	0.78	0.66	0.59	
MAX	1.55	1.42	3.08	5.64	9.60	9.48	8.42	3.99	2.26	0.94	0.75	0.94	9.60
MIN	0.58	0.51	0.83	2.83	3.51	6.94	3.36	1.91	0.95	0.68	0.63	0.46	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.61 M (MSL), AT 18.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION -0.49 M (MSL), RIVER BED -0.21 M (MSL)
LEFT BANK ELEVATION 11.00 M (MSL)
RIGHT BANK ELEVATION 9.42 M (MSL), DRAINAGE AREA 7502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.5	1.8	11.0	68.8	113.0	538.0	472.0	126.4	33.6	7.7	1.8	1.2	
2	0.7	1.0	9.8	74.0	148.0	493.0	475.0	109.0	44.4	7.3	1.8	4.0	
3	0.3	0.5	9.8	83.5	134.2	451.0	479.0	96.0	39.9	6.8	1.6	7.7	
4	0.3	0.3	8.3	128.2	100.5	400.7	487.0	84.5	36.0	6.8	1.6	5.5	
5	1.0	0.2	6.4	145.6	104.5	362.0	451.0	75.5	33.3	6.4	2.0	3.6	
6	0.3	0.2	6.0	142.0	192.8	351.2	366.5	68.4	31.8	6.4	1.6	2.5	
7	0.3	0.2	5.3	116.2	280.6	428.0	293.4	65.6	30.3	6.0	1.6	1.8	
8	0.3	0.2	5.5	101.0	272.6	507.0	244.6	60.4	28.5	5.7	1.4	1.4	
9	2.0	0.2	9.4	96.5	262.2	536.0	210.3	58.0	26.1	5.7	1.4	1.0	
10	2.3	0.3	16.5	119.2	232.6	540.0	209.6	54.8	24.3	5.5	1.2	0.7	
11	1.0	0.3	26.4	238.2	228.6	573.0	208.9	53.2	23.1	5.1	1.2	0.5	
12	0.3	0.5	40.5	208.2	268.6	593.0	203.3	54.0	22.2	4.9	1.0	0.3	
13	1.8	0.3	76.0	171.1	266.2	590.0	177.4	51.2	21.0	4.7	1.4	0.3	
14	2.0	0.3	79.0	177.4	243.8	589.0	170.4	47.6	18.9	4.4	1.4	0.3	
15	2.9	0.3	68.8	180.9	217.4	578.0	161.8	44.0	17.7	4.2	1.0	0.3	
16	1.8	0.5	55.6	166.0	193.5	557.0	153.4	42.4	16.2	4.0	1.8	0.3	
17	1.4	0.5	43.6	154.0	228.6	538.0	136.6	42.4	15.0	3.8	2.5	0.3	
18	10.6	2.0	34.8	124.6	299.0	510.0	116.2	46.4	14.6	3.8	3.6	0.2	
19	20.1	6.6	26.7	113.0	294.2	484.0	102.5	51.2	14.0	3.6	3.1	0.2	
20	22.5	11.6	21.9	148.6	283.8	449.0	93.0	70.5	13.2	3.3	2.5	0.2	
21	18.6	11.8	24.0	129.4	369.2	399.8	107.5	76.0	12.2	3.3	2.0	0.2	
22	12.2	7.7	32.4	126.4	493.0	358.4	124.6	68.8	11.6	2.9	1.6	0.2	
23	9.6	7.7	32.1	143.8	527.0	347.6	103.0	57.2	11.2	2.5	1.4	0.2	
24	7.7	12.4	28.5	118.0	551.0	360.2	94.5	48.0	10.6	2.5	1.2	0.2	
25	6.6	14.8	24.9	94.5	585.0	367.4	98.0	42.8	10.2	2.5	1.0	0.2	
26	6.4	13.8	23.7	78.5	605.0	358.4	150.4	39.9	10.6	2.5	1.4	0.2	
27	5.3	18.6	27.0	70.0	604.0	371.0	164.2	37.5	10.4	2.3	1.2	0.2	
28	4.7	16.2	31.8	71.5	594.0	405.2	147.4	36.0	9.2	2.0	1.6	0.2	
29	3.8	14.2	36.9	73.0	591.0	437.0	147.4	34.5	8.6	2.0		0.2	
30	2.7	13.4	46.4	68.4	586.0	460.0	148.6	33.3	8.1	2.0		0.2	
31		11.8		67.2	566.0		149.2		7.9	2.0		0.2	
TOTAL	150.0	170.2	869.0	3797.7	10435.9	13932.9	6646.7	1775.5	614.7	132.6	46.9	34.5	38606.6 CMSDAY
MEAN	5.0	5.5	29.0	122.5	336.6	464.4	214.4	59.2	19.8	4.3	1.7	1.1	105.8 CMS
MAX	22.5	18.6	79.0	238.2	605.0	593.0	487.0	126.4	44.4	7.7	3.6	7.7	605.0 CMS
MIN	0.3	0.2	5.3	67.2	100.5	347.6	93.0	33.3	7.9	2.0	1.0	0.2	0.2 CMS
RUNOFF	12.96	14.71	75.08	328.12	901.66	1203.80	574.27	153.40	53.11	11.46	4.05	2.98	3335.61 MCM

MOMENTARY PEAK 606.10 CMS, AT 9.61 M (MSL), AT 18.00 HOURS, ON AUG 26, 1982

RUNOFF YIELD 14.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 80.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

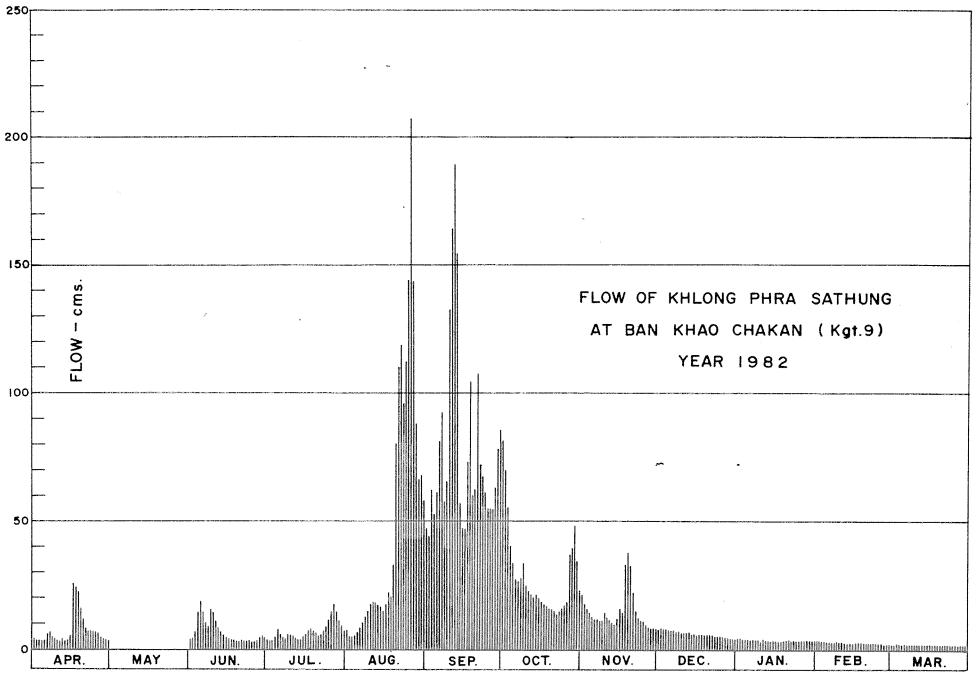
KHLONG PHRA SATHUNG AT BAN KHAO CHAKAN, PRACHIN BURI (KGT.9)

LOCATION	LAT. 13°-40'-10" N., LONG. 102°-04'-35" E., ON RIGHT BANK INFRONT OF WAT KHAO CHAKAN, BAN KHAO CHAKAN, AMPHOE SAKAEO, PRACHIN BURI.
DRAINAGE AREA	2,279 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+9.020 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967-1970, 1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1970
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1970
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. NO RECORDS ON MAY 1-31, 1982. STAGE-DISCHARGE RELATION DEFINED BY 269 DISCHARGE MEASUREMENTS MADE DURING 1969-1970.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.50	*******	0.47	0.44	0.66	2.78	4.04	1.56	0.79	0.49	0.41	0.35	
2	0.51	*******	0.45	0.43	0.55	2.64	3.67	1.39	0.77	0.48	0.41	0.35	
3	0.46	*******	0.70	0.42	0.54	3.33	3.04	1.27	0.75	0.48	0.41	0.34	
4	0.44	*******	1.21	0.56	0.58	2.96	2.51	1.17	0.74	0.48	0.41	0.34	
5	0.39	*******	1.46	0.80	0.71	3.39	2.16	1.09	0.74	0.47	0.41	0.34	
6	0.64	*******	1.27	0.66	0.84	4.05	1.91	1.06	0.74	0.47	0.40	0.34	
7	0.74	*******	0.97	0.53	0.95	4.39	1.87	1.04	0.73	0.47	0.40	0.33	
8	0.52	*******	0.86	0.47	1.10	3.19	1.83	1.01	0.72	0.47	0.40	0.33	
9	0.47	*******	1.32	0.64	1.25	3.61	2.18	1.00	0.71	0.46	0.40	0.33	
10	0.42	*******	1.30	0.69	1.38	5.12	1.82	1.21	0.70	0.46	0.40	0.32	
11	0.39	*******	0.94	0.54	1.49	6.89	1.63	1.06	0.69	0.46	0.39	0.32	
12	0.46	*******	0.78	0.49	1.46	7.07	1.59	0.98	0.68	0.46	0.39	0.32	
13	0.43	*******	0.69	0.43	1.39	5.45	1.51	0.94	0.67	0.46	0.39	0.31	
14	0.41	*******	0.59	0.45	1.34	3.22	1.58	0.92	0.66	0.45	0.39	0.31	
15	0.66	*******	0.50	0.56	1.21	2.76	1.54	1.07	0.65	0.45	0.38	0.31	
16	1.82	*******	0.46	0.69	1.38	2.78	1.45	1.31	0.64	0.45	0.38	0.30	
17	1.76	*******	0.45	0.75	1.62	3.77	1.39	1.24	0.63	0.45	0.38	0.30	
18	1.71	*******	0.44	0.80	1.56	4.78	1.34	2.09	0.62	0.44	0.38	0.30	
19	1.28	*******	0.43	0.72	2.09	3.25	1.29	2.37	0.61	0.44	0.37	0.29	
20	1.06	*******	0.43	0.64	3.36	3.42	1.24	2.13	0.60	0.44	0.37	0.29	
21	0.88	*******	0.42	0.59	4.81	4.88	1.20	1.65	0.59	0.44	0.37	0.29	
22	0.76	*******	0.41	0.64	5.21	3.75	1.18	1.29	0.58	0.43	0.37	0.28	
23	0.81	*******	0.41	0.77	4.50	3.57	1.27	1.10	0.57	0.43	0.36	0.28	
24	0.77	*******	0.41	0.86	5.29	3.28	1.34	0.99	0.56	0.43	0.36	0.28	
25	0.65	*******	0.40	1.03	7.04	3.08	1.34	0.94	0.55	0.43	0.36	0.28	
26	0.58	*******	0.40	1.28	7.49	3.08	1.59	0.88	0.54	0.43	0.36	0.27	
27	0.54	*******	0.41	1.41	5.79	3.07	2.32	0.86	0.53	0.42	0.36	0.27	
28	0.50	*******	0.50	1.23	4.20	3.38	2.44	0.83	0.52	0.42	0.36	0.27	
29	0.46	*******	0.65	1.00	3.49	3.87	2.80	0.81	0.51	0.42		0.26	
30	0.44	*******	0.48	0.83	3.58	4.18	2.13	0.80	0.50	0.42		0.26	
31		*******		0.74	3.51		1.74		0.49	0.42		0.26	
MEAN	0.72	*******	0.67	0.71	2.59	3.83	1.90	1.20	0.64	0.45	0.38	0.30	
MAX	1.82	*******	1.46	1.41	7.49	7.07	4.04	2.37	0.79	0.49	0.41	0.35	7.49
MIN	0.39	*******	0.40	0.42	0.54	2.64	1.18	0.80	0.49	0.42	0.36	0.26	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.64 M (A.D), AT 4.00 HOURS, ON SEP 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.00 M (A.D)
LEFT BANK ELEVATION 10.70 M (A.D)
RIGHT BANK ELEVATION 9.94 M (A.D), DRAINAGE AREA 2279 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.00	*******	3.70	3.40	5.92	47.52	81.20	20.34	7.66	3.90	3.10	2.50	
2	4.12	*******	3.50	3.30	4.60	44.16	70.76	17.02	7.38	3.80	3.10	2.50	
3	3.60	*******	6.40	3.20	4.48	61.48	54.00	14.92	7.10	3.80	3.10	2.40	
4	3.40	*******	13.96	4.72	4.96	52.00	41.04	13.32	6.96	3.80	3.10	2.40	
5	2.90	*******	18.38	7.80	6.54	63.04	32.72	12.04	6.96	3.70	3.10	2.40	
6	5.68	*******	14.92	5.92	8.36	81.50	27.22	11.56	6.96	3.70	3.00	2.40	
7	6.96	*******	10.18	4.36	9.90	92.08	26.41	11.24	6.82	3.70	3.00	2.30	
8	4.24	*******	8.64	3.70	12.20	57.84	25.63	10.76	6.68	3.70	3.00	2.30	
9	3.70	*******	15.76	5.68	14.60	69.08	33.16	10.60	6.54	3.60	3.00	2.30	
10	3.20	*******	15.40	6.28	16.84	115.68	25.43	13.96	6.40	3.60	3.00	2.20	
11	2.90	*******	9.76	4.48	18.96	181.60	21.71	11.56	6.28	3.60	2.90	2.20	
12	3.60	*******	7.52	3.90	18.38	188.80	20.92	10.32	6.16	3.60	2.90	2.20	
13	3.30	*******	6.28	3.30	17.02	126.95	19.36	9.76	6.04	3.60	2.90	2.10	
14	3.10	*******	5.08	3.50	16.12	58.62	20.73	9.48	5.92	3.50	2.90	2.10	
15	5.92	*******	4.00	4.72	13.96	47.04	19.94	11.72	5.80	3.50	2.80	2.10	
16	25.43	*******	3.60	6.28	16.84	47.52	18.18	15.58	5.68	3.50	2.80	2.00	
17	24.26	*******	3.50	7.10	21.51	73.56	17.02	14.44	5.56	3.50	2.80	2.00	
18	23.28	*******	3.40	7.80	20.34	104.56	16.12	31.18	5.44	3.40	2.80	2.00	
19	15.08	*******	3.30	6.68	31.18	59.40	15.24	37.68	5.32	3.40	2.70	1.92	
20	11.56	*******	3.30	5.68	62.26	63.84	14.44	32.06	5.20	3.40	2.70	1.92	
21	8.92	*******	3.20	5.08	105.52	107.76	13.80	22.10	5.08	3.40	2.70	1.92	
22	7.24	*******	3.10	5.68	118.74	73.00	13.48	15.24	4.96	3.30	2.70	1.84	
23	7.94	*******	3.10	7.38	95.60	67.96	14.92	12.20	4.84	3.30	2.60	1.84	
24	7.38	*******	3.10	8.64	121.46	60.18	16.12	10.46	4.72	3.30	2.60	1.84	
25	5.80	*******	3.00	11.08	187.60	55.00	16.12	9.76	4.60	3.30	2.60	1.84	
26	4.96	*******	3.00	15.08	206.94	55.00	20.92	8.92	4.48	3.30	2.60	1.76	
27	4.48	*******	3.10	17.40	139.17	54.75	36.48	8.64	4.36	3.20	2.60	1.76	
28	4.00	*******	4.00	14.28	86.00	62.78	39.36	8.22	4.24	3.20	2.60	1.76	
29	3.60	*******	5.80	10.60	65.73	76.36	48.00	7.94	4.12	3.20		1.68	
30	3.40	*******	3.80	8.22	68.24	85.40	32.06	7.80	4.00	3.20		1.68	
31		*******		6.96	66.28		23.86		3.90	3.20		1.68	
TOTAL	217.95	*******	195.78	212.20	1586.25	2334.46	876.35	430.82	176.16	108.20	79.70	63.84	******** CMSDAY
MEAN	7.27	*******	6.53	6.85	51.17	77.82	28.27	14.36	5.68	3.49	2.85	2.06	******** CMS
MAX	25.43	*******	18.38	17.40	206.94	188.80	81.20	37.68	7.66	3.90	3.10	2.50	206.94 CMS
MIN	2.90	*******	3.00	3.20	4.48	44.16	13.48	7.80	3.90	3.20	2.60	1.68	******** CMS
RUNOFF	18.831	*******	16.915	18.334	137.052	201.697	75.717	37.223	15.220	9.348	6.886	5.516	******** MCM

MOMENTARY PEAK 213.84 CMS, AT 7.64 M (A.D), AT 4.00 HOURS, ON SEP 12, 1982
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 93.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

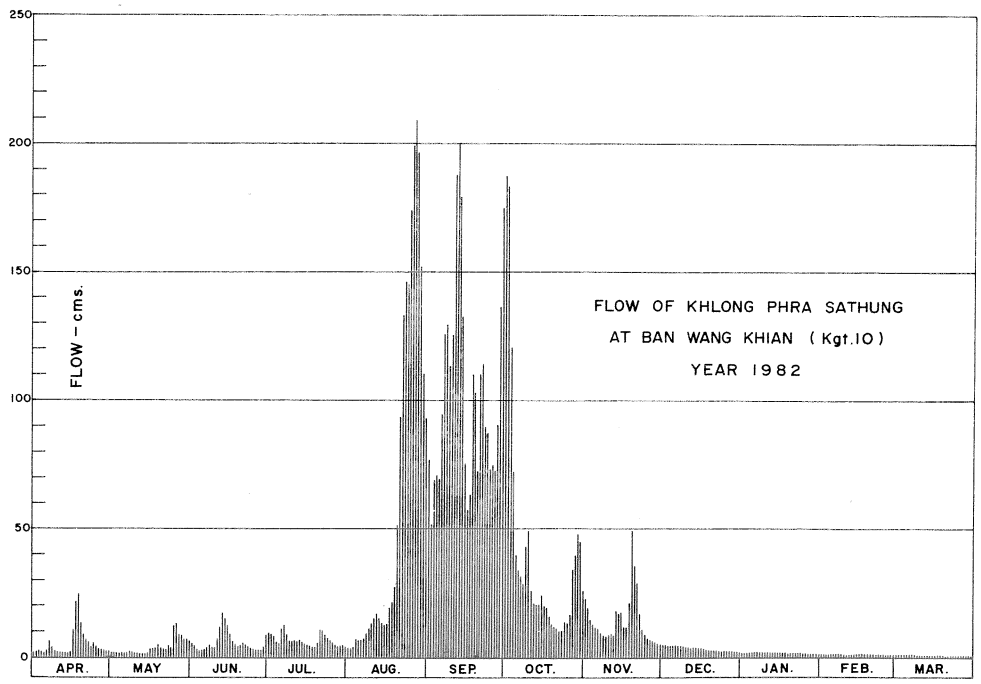
KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION	LAT. 13°-48'-29" N., LONG. 102°-03'-35" E., ON LEFT BANK NEAR SAHA CHAROEN SAWMILL, BAN WANG KHIAN, AMPHOE SA KAEO, PRACHIN BURI.
DRAINAGE AREA	2,523 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+23.741 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10 METERS FROM THE AUTOMATIC GAGE BUILDING.
ELEVATION	+34.652 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +34.52 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.93	24.97	25.48	25.98	25.28	30.20	33.94	27.09	25.48	25.06	24.92	24.82	
2	25.05	24.95	25.38	25.93	25.20	28.97	33.79	26.73	25.46	25.07	24.91	24.80	
3	25.08	24.92	25.22	25.87	25.32	29.73	32.47	26.46	25.45	25.06	24.91	24.80	
4	24.98	24.90	25.14	25.58	25.65	29.90	29.91	26.27	25.44	25.06	24.91	24.79	
5	24.96	24.95	25.14	25.43	25.62	29.81	28.36	26.12	25.43	25.05	24.90	24.79	
6	25.03	24.89	25.19	26.15	25.64	30.90	27.89	26.11	25.43	25.05	24.90	24.78	
7	25.60	25.03	25.27	26.27	25.72	31.90	27.70	25.96	25.42	25.06	24.89	24.78	
8	25.21	25.04	25.45	25.91	25.95	32.12	27.57	25.87	25.40	25.06	24.89	24.78	
9	25.08	24.99	25.31	25.63	26.10	31.57	28.44	25.84	25.37	25.05	24.89	24.78	
10	25.01	24.92	25.34	25.62	26.26	31.91	28.82	25.88	25.36	25.04	24.89	24.77	
11	24.97	24.92	25.74	25.66	26.52	33.13	27.38	26.07	25.34	25.02	24.89	24.77	
12	24.93	24.89	26.38	25.66	26.68	33.94	27.00	25.83	25.31	25.01	24.88	24.76	
13	24.98	24.89	26.65	25.69	26.56	34.17	26.94	26.71	25.30	24.99	24.88	24.76	
14	24.94	24.90	26.48	25.58	26.36	33.08	26.96	26.66	25.29	24.99	24.90	24.78	
15	25.01	24.89	26.25	25.49	26.27	30.28	27.23	26.70	25.28	25.00	24.88	24.79	
16	26.12	25.28	25.94	25.40	26.33	29.28	26.91	26.19	25.25	24.99	24.87	24.78	
17	26.97	25.25	25.64	25.36	26.86	29.50	26.81	26.17	25.23	24.98	24.87	24.77	
18	27.24	25.36	25.42	25.33	27.01	31.45	26.54	27.29	25.20	24.98	24.87	24.76	
19	26.56	25.46	25.35	25.33	27.50	31.19	26.30	28.84	25.18	24.97	24.88	24.75	
20	25.90	25.23	25.46	25.58	28.96	29.95	26.17	28.13	25.17	24.97	24.86	24.75	
21	25.67	25.17	25.52	26.09	31.02	31.44	26.14	27.65	25.17	24.98	24.85	24.74	
22	25.51	25.11	25.44	26.12	32.25	31.62	26.03	26.67	25.15	24.98	24.85	24.76	
23	25.28	25.42	25.34	25.89	32.67	30.70	26.09	26.20	25.14	24.96	24.84	24.80	
24	25.49	25.29	25.24	25.74	32.64	30.57	26.44	25.94	25.14	24.95	24.84	24.79	
25	25.29	26.26	25.19	25.66	33.64	29.99	26.27	25.80	25.14	24.92	24.83	24.78	
26	25.24	26.32	25.16	25.54	34.25	30.02	26.68	25.68	25.12	24.91	24.83	24.76	
27	25.18	25.84	25.14	25.41	34.52	29.97	27.82	25.64	25.11	24.91	24.82	24.75	
28	25.11	25.85	25.15	25.37	34.09	30.68	28.28	25.59	25.10	24.91	24.82	24.74	
29	25.05	25.62	25.42	25.44	32.80	32.05	28.78	25.55	25.09	24.91		24.73	
30	25.01	25.69	25.86	25.42	31.58	33.44	28.59	25.50	25.09	24.91		24.72	
31		25.52		25.35	31.15		27.46		25.06	24.91		24.71	
MEAN	25.38	25.25	25.52	25.66	28.59	31.12	27.93	26.37	25.26	24.99	24.87	24.77	
MAX	27.24	26.32	26.65	26.27	34.52	34.17	33.94	28.84	25.48	25.07	24.92	24.82	34.52
MIN	24.93	24.89	25.14	25.33	25.20	28.97	26.03	25.50	25.06	24.91	24.82	24.71	24.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 34.57 M (MSL), AT 18.00 HOURS, ON AUG 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 23.74 M (MSL), RIVER BED 24.10 M (MSL)
LEFT BANK ELEVATION 34.51 M (MSL)
RIGHT BANK ELEVATION 34.72 M (MSL), DRAINAGE AREA 2523 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.38	1.62	4.94	9.50	3.48	77.60	187.50	22.27	4.94	2.16	1.32	0.80	
2	2.10	1.50	4.16	9.00	3.00	51.53	182.25	17.76	4.78	2.22	1.26	0.70	
3	2.28	1.32	3.12	8.43	3.74	67.41	139.70	14.56	4.70	2.16	1.26	0.70	
4	1.68	1.20	2.64	5.82	6.45	71.03	71.25	12.47	4.62	2.16	1.26	0.66	
5	1.56	1.50	2.64	4.54	6.18	69.11	40.96	10.90	4.54	2.10	1.20	0.66	
6	1.98	1.15	2.94	11.20	6.36	95.20	33.45	10.80	4.54	2.10	1.20	0.62	
7	6.00	1.98	3.42	12.47	7.08	122.70	30.60	9.30	4.46	2.16	1.15	0.62	
8	3.06	2.04	4.70	8.80	9.20	129.20	28.78	8.43	4.30	2.16	1.15	0.62	
9	2.28	1.74	3.67	6.27	10.70	113.26	42.24	8.16	4.09	2.10	1.15	0.62	
10	1.86	1.32	3.88	6.18	12.36	122.99	48.68	8.52	4.02	2.04	1.15	0.58	
11	1.62	1.32	7.26	6.54	15.24	160.56	26.12	10.40	3.88	1.92	1.15	0.58	
12	1.38	1.15	13.68	6.54	17.16	187.50	21.10	8.07	3.67	1.86	1.10	0.54	
13	1.68	1.15	16.80	6.81	15.72	195.55	20.32	17.52	3.60	1.74	1.10	0.54	
14	1.44	1.20	14.78	5.82	13.46	158.96	20.58	16.92	3.54	1.74	1.20	0.62	
15	1.86	1.15	12.25	5.02	12.47	79.52	24.09	17.40	3.48	1.80	1.10	0.66	
16	10.90	3.48	9.10	4.30	13.13	57.60	19.93	11.60	3.30	1.74	1.05	0.62	
17	20.71	3.30	6.36	4.02	19.32	62.50	18.72	11.40	3.18	1.68	1.05	0.58	
18	24.22	4.02	4.46	3.81	21.23	109.90	15.48	24.87	3.00	1.68	1.05	0.54	
19	15.72	4.78	3.95	3.81	27.80	102.74	12.80	49.06	2.88	1.62	1.10	0.50	
20	8.70	3.18	4.78	5.82	51.34	72.10	11.40	37.28	2.82	1.62	1.00	0.50	
21	6.63	2.82	5.28	10.60	98.32	109.62	11.10	29.90	2.82	1.68	0.95	0.46	
22	5.19	2.46	4.62	10.90	133.10	114.66	10.00	17.04	2.70	1.68	0.95	0.54	
23	3.48	4.46	3.88	8.61	145.87	90.00	10.60	11.70	2.64	1.56	0.90	0.70	
24	5.02	3.54	3.24	7.26	144.94	86.75	14.34	9.10	2.64	1.50	0.90	0.66	
25	3.54	12.36	2.94	6.54	177.06	72.95	12.47	7.80	2.64	1.32	0.85	0.62	
26	3.24	13.02	2.76	5.46	198.35	73.59	17.16	6.72	2.52	1.26	0.85	0.54	
27	2.88	8.16	2.64	4.38	207.92	72.53	32.40	6.36	2.46	1.26	0.80	0.50	
28	2.46	8.25	2.70	4.09	192.75	89.50	39.68	5.91	2.40	1.26	0.80	0.46	
29	2.10	6.18	4.46	4.62	150.00	127.10	47.94	5.55	2.34	1.26		0.42	
30	1.86	6.81	8.34	4.46	113.54	170.48	44.64	5.10	2.34	1.26		0.38	
31		5.28		3.95	101.70		27.24		2.16	1.26		0.34	
TOTAL	148.81	113.44	170.39	205.57	1938.97	3114.14	1263.52	432.87	106.00	54.06	30.00	17.88	7595.65 CMSDAY
MEAN	4.96	3.66	5.68	6.63	62.55	103.80	40.76	14.43	3.42	1.74	1.07	0.58	20.81 CMS
MAX	24.22	13.02	16.80	12.47	207.92	195.55	187.50	49.06	4.94	2.22	1.32	0.80	207.92 CMS
MIN	1.38	1.15	2.64	3.81	3.00	51.53	10.00	5.10	2.16	1.26	0.80	0.34	0.34 CMS
RUNOFF	12.857	9.801	14.722	17.761	167.527	269.062	109.168	37.400	9.158	4.671	2.592	1.545	656.264 MCM

MOMENTARY PEAK 209.72 CMS, AT 34.57 M (MSL), AT 18.00 HOURS, ON AUG 27, 1982

RUNOFF YIELD 8.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 83.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

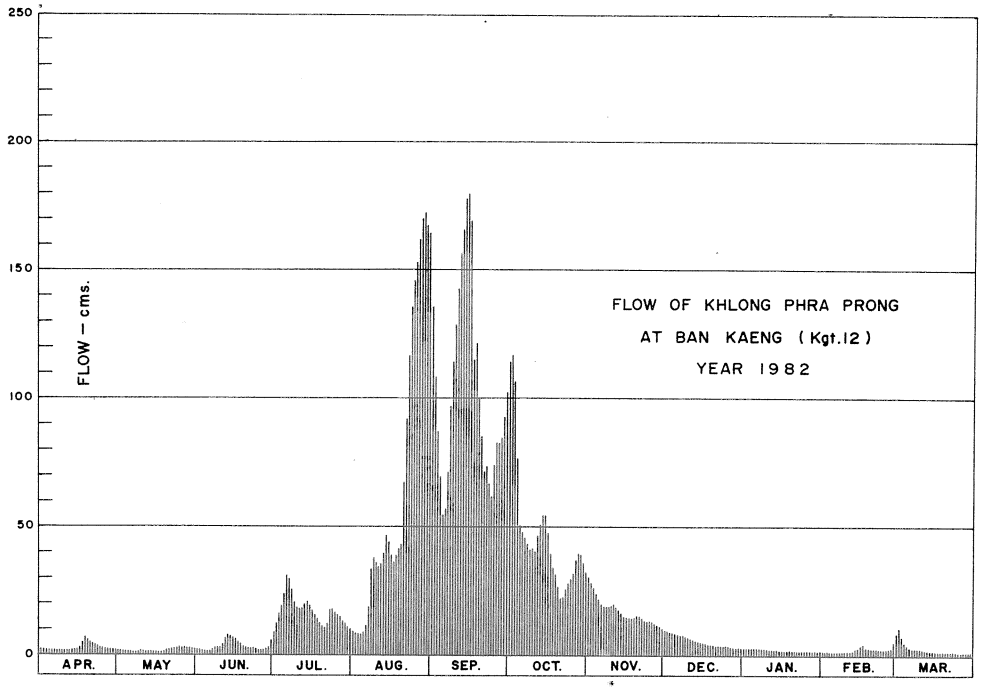
KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION	LAT. 13°-56'-02" N., LONG. 101°-58'-41" E., ON LEFT BANK NEAR THE RAILWAY STATION AT BAN KAENG AND ABOUT 200 METERS UPSTREAM FROM THOT SAPHON SAWMILL, AMPHOE SA KAEO, PRACHIN BURI.
DRAINAGE AREA	1,540 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 20 METERS FROM THE GAGE SITE.
ELEVATION	+9.505 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 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 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.56	0.62	1.36	1.37	6.65	5.99	2.71	1.41	0.70	0.52	1.31	
2	0.60	0.54	0.59	1.67	1.35	5.92	6.08	2.60	1.37	0.70	0.51	1.48	
3	0.56	0.51	0.56	1.92	1.31	5.07	5.77	2.51	1.34	0.72	0.53	1.16	
4	0.57	0.48	0.55	2.09	1.25	4.37	4.63	2.37	1.30	0.70	0.53	0.97	
5	0.55	0.46	0.53	2.43	1.32	3.85	3.67	2.22	1.28	0.69	0.58	0.86	
6	0.58	0.44	0.52	2.71	1.51	3.98	3.57	2.11	1.28	0.69	0.56	0.78	
7	0.56	0.43	0.56	2.67	2.06	4.60	3.50	2.03	1.24	0.66	0.52	0.74	
8	0.52	0.44	0.75	2.43	2.82	5.41	3.38	2.03	1.22	0.65	0.51	0.72	
9	0.52	0.48	0.78	2.16	3.08	6.05	3.25	2.01	1.20	0.65	0.52	0.70	
10	0.50	0.50	0.75	2.03	3.02	6.49	3.26	2.05	1.16	0.64	0.51	0.67	
11	0.49	0.50	0.86	1.94	2.90	6.92	3.22	2.09	1.13	0.64	0.51	0.62	
12	0.50	0.49	1.14	1.98	2.97	7.25	3.54	2.03	1.11	0.62	0.54	0.58	
13	0.51	0.47	1.22	2.11	3.29	7.58	3.68	1.93	1.05	0.62	0.54	0.55	
14	0.56	0.48	1.15	2.14	3.50	7.91	3.84	1.85	1.02	0.61	0.58	0.50	
15	0.64	0.48	1.10	2.06	3.40	7.96	3.84	1.78	1.00	0.60	0.71	0.52	
16	0.61	0.46	1.12	1.96	3.12	7.65	3.58	1.75	0.98	0.59	0.87	0.53	
17	1.02	0.45	1.04	1.83	3.02	6.03	3.20	1.75	0.96	0.59	0.91	0.52	
18	1.12	0.46	0.88	1.68	3.21	6.20	2.83	1.75	0.92	0.58	0.80	0.51	
19	1.02	0.50	0.80	1.54	3.25	5.50	2.73	1.74	0.88	0.56	0.76	0.51	
20	0.90	0.58	0.75	1.48	3.42	4.91	2.47	1.80	0.84	0.56	0.71	0.51	
21	0.86	0.65	0.70	1.53	4.33	4.48	2.26	1.78	0.83	0.53	0.66	0.50	
22	0.86	0.64	0.66	1.86	5.32	4.58	2.24	1.72	0.86	0.54	0.61	0.46	
23	0.80	0.66	0.67	1.97	6.05	4.34	2.46	1.68	0.84	0.53	0.63	0.44	
24	0.74	0.76	0.63	1.96	6.67	4.14	2.60	1.68	0.84	0.52	0.65	0.41	
25	0.70	0.76	0.60	1.91	7.02	4.60	2.68	1.67	0.82	0.52	0.66	0.41	
26	0.68	0.72	0.59	1.84	7.24	4.90	2.77	1.65	0.80	0.50	0.71	0.42	
27	0.65	0.72	0.60	1.74	7.47	4.92	3.07	1.60	0.79	0.49	0.69	0.41	
28	0.61	0.71	0.65	1.64	7.66	4.99	3.16	1.58	0.78	0.48	0.72	0.40	
29	0.60	0.70	0.75	1.56	7.73	5.29	3.14	1.53	0.76	0.53		0.41	
30	0.60	0.69	1.13	1.48	7.59	5.66	3.03	1.46	0.74	0.53		0.42	
31		0.71		1.39	7.19		2.83		0.72	0.53		0.36	
MEAN	0.67	0.56	0.78	1.91	4.05	5.61	3.43	1.92	1.02	0.60	0.63	0.63	
MAX	1.12	0.76	1.22	2.71	7.73	7.96	6.08	2.71	1.41	0.72	0.91	1.48	7.96
MIN	0.49	0.43	0.52	1.36	1.25	3.85	2.24	1.46	0.72	0.48	0.51	0.36	0.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.00 M (A.D), AT 24.00 HOURS, ON SEP 14, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.19 M (A.D)
LEFT BANK ELEVATION 9.71 M (A.D)
RIGHT BANK ELEVATION 9.22 M (A.D), DRAINAGE AREA 1540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.92	1.56	1.92	8.78	8.91	135.65	114.49	30.20	9.43	2.40	1.32	8.13	
2	1.80	1.44	1.74	13.13	8.65	112.32	117.28	28.00	8.91	2.40	1.26	10.34	
3	1.56	1.26	1.56	16.85	8.13	87.16	107.67	26.29	8.52	2.52	1.38	6.60	
4	1.62	1.08	1.50	19.38	7.50	67.69	74.84	23.76	8.00	2.40	1.38	4.70	
5	1.50	0.96	1.38	24.84	8.26	54.70	50.38	21.31	7.80	2.34	1.68	3.60	
6	1.68	0.84	1.32	30.20	10.75	57.82	47.98	19.67	7.80	2.34	1.56	2.88	
7	1.56	0.78	1.56	29.40	18.93	74.00	46.30	18.48	7.40	2.16	1.32	2.64	
8	1.32	0.84	2.70	24.84	32.40	96.89	43.60	18.48	7.20	2.10	1.26	2.52	
9	1.32	1.08	2.88	20.42	37.60	116.35	41.00	18.19	7.00	2.10	1.32	2.40	
10	1.20	1.20	2.70	18.48	36.40	130.37	41.20	18.78	6.60	2.04	1.26	2.22	
11	1.14	1.20	3.60	17.15	34.00	144.56	40.40	19.38	6.30	2.04	1.26	1.92	
12	1.20	1.14	6.40	17.74	35.40	155.70	47.26	18.48	6.10	1.92	1.44	1.68	
13	1.26	1.02	7.20	19.67	41.80	166.92	50.62	17.00	5.50	1.92	1.44	1.50	
14	1.56	1.08	6.50	20.12	46.30	178.25	54.46	15.81	5.20	1.86	1.68	1.20	
15	2.04	1.08	6.00	18.93	44.00	180.00	54.46	14.77	5.00	1.80	2.46	1.32	
16	1.86	0.96	6.20	17.44	38.40	169.30	48.22	14.32	4.80	1.74	3.70	1.38	
17	5.20	0.90	5.40	15.51	36.40	115.73	40.00	14.32	4.60	1.74	4.10	1.32	
18	6.20	0.96	3.80	13.28	40.20	121.00	32.60	14.32	4.20	1.68	3.00	1.26	
19	5.20	1.20	3.00	11.19	41.00	99.50	30.60	14.17	3.80	1.56	2.76	1.26	
20	4.00	1.68	2.70	10.34	44.46	82.68	25.56	15.06	3.40	1.56	2.46	1.26	
21	3.60	2.10	2.40	11.05	66.61	70.66	21.90	14.77	3.30	1.38	2.16	1.20	
22	3.60	2.04	2.16	15.96	94.28	73.44	21.61	13.87	3.60	1.44	1.86	0.96	
23	3.00	2.16	2.22	17.59	116.35	66.88	25.38	13.28	3.40	1.38	1.98	0.84	
24	2.64	2.76	1.98	17.44	136.31	61.70	28.00	13.28	3.40	1.32	2.10	0.66	
25	2.40	2.76	1.80	16.70	147.88	74.00	29.60	13.13	3.20	1.32	2.16	0.66	
26	2.28	2.52	1.74	15.66	155.36	82.40	31.40	12.83	3.00	1.20	2.46	0.72	
27	2.10	2.52	1.80	14.17	163.18	82.96	37.40	12.09	2.94	1.14	2.34	0.66	
28	1.86	2.46	2.10	12.68	169.64	84.92	39.20	11.79	2.88	1.08	2.52	0.60	
29	1.80	2.40	2.70	11.49	172.02	93.41	38.80	11.05	2.76	1.38		0.66	
30	1.80	2.34	6.30	10.34	167.26	104.30	36.60	10.08	2.64	1.38		0.72	
31		2.46		9.17	153.66		32.60		2.52	1.38		0.36	
TOTAL	70.22	48.78	95.26	519.94	2122.04	3141.26	1451.41	506.96	161.20	55.02	55.62	68.17	8295.88 CMSDAY
MEAN	2.34	1.57	3.18	16.77	68.45	104.71	46.82	16.90	5.20	1.77	1.99	2.20	22.73 CMS
MAX	6.20	2.76	7.20	30.20	172.02	180.00	117.28	30.20	9.43	2.52	4.10	10.34	180.00 CMS
MIN	1.14	0.78	1.32	8.78	7.50	54.70	21.61	10.08	2.52	1.08	1.26	0.36	0.36 CMS
RUNOFF	6.067	4.215	8.230	44.923	183.344	271.405	125.402	43.801	13.928	4.754	4.806	5.890	716.764 MCM

MOMENTARY PEAK 181.40 CMS, AT 8.00 M (A.D), AT 24.00 HOURS, ON SEP 14, 1982

RUNOFF YIELD 14.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 117.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

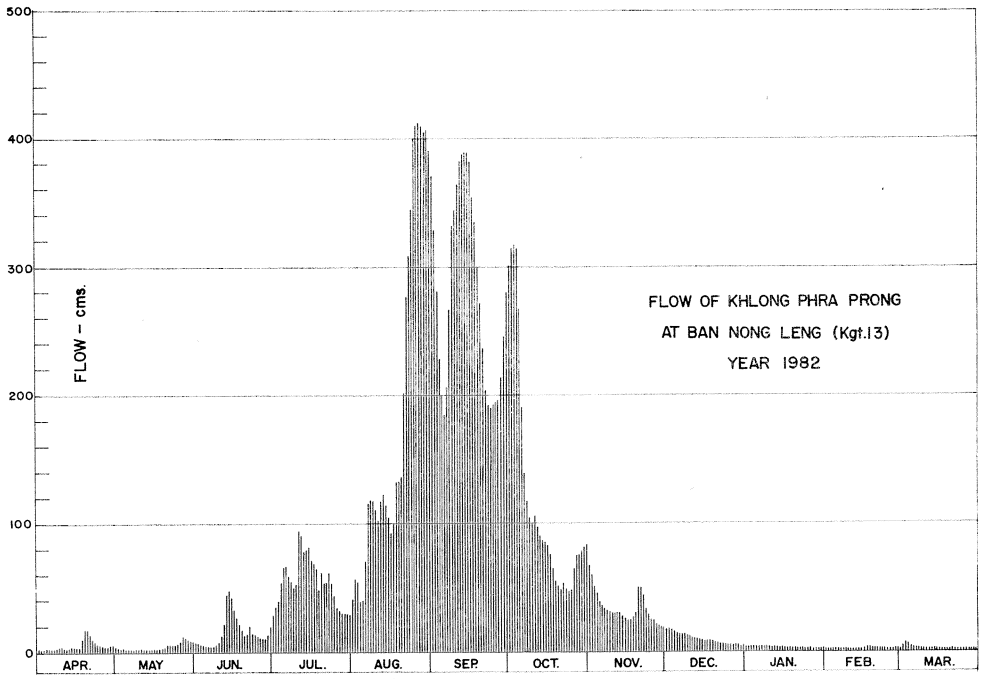
KHLONG PHRA PRONG AT BAN NANG LENG, PRACHIN BURI (KGT.13)

LOCATION	LAT. 13°-58'-04" N., LONG. 101°-44'-20" E., ON LEFT BANK ABOUT 40 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY, AT BAN NANG LENG, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	5,347 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.165 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+10.712 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 MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1968, 1971-1976, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1971-1976, 1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON MAY 1, 1982.STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.34	1.42	1.89	3.14	3.82	10.14	9.39	4.75	2.58	1.59	1.32	1.35	
2	1.35	1.36	1.81	3.44	4.39	9.68	9.57	4.43	2.65	1.56	1.32	1.65	
3	1.32	1.35	1.75	3.67	4.27	9.05	9.60	4.17	2.56	1.55	1.32	1.86	
4	1.34	1.31	1.66	4.30	3.66	8.42	9.56	3.94	2.49	1.55	1.32	1.68	
5	1.36	1.27	1.60	4.69	3.73	7.91	8.99	3.75	2.46	1.54	1.32	1.54	
6	1.34	1.21	1.60	4.71	5.10	7.70	7.87	3.59	2.44	1.52	1.32	1.46	
7	1.31	1.22	1.54	4.45	6.26	8.43	6.93	3.45	2.41	1.52	1.32	1.40	
8	1.32	1.21	1.53	4.30	6.35	9.31	6.30	3.34	2.37	1.50	1.31	1.37	
9	1.54	1.22	1.76	4.07	6.31	9.76	5.99	3.28	2.33	1.49	1.31	1.35	
10	1.46	1.23	2.03	4.22	6.06	9.89	5.81	3.25	2.28	1.49	1.31	1.34	
11	1.37	1.31	2.34	5.67	5.89	10.09	6.01	3.24	2.24	1.47	1.30	1.31	
12	1.31	1.33	2.88	5.51	6.30	10.28	5.68	3.30	2.21	1.46	1.30	1.30	
13	1.43	1.27	3.83	5.10	6.46	10.34	5.49	3.22	2.19	1.45	1.30	1.26	
14	1.46	1.27	3.99	5.17	6.24	10.36	5.41	3.09	2.16	1.45	1.30	1.25	
15	1.47	1.24	3.76	5.28	6.00	10.35	5.36	3.00	2.11	1.43	1.33	1.24	
16	1.45	1.32	3.42	4.88	5.60	10.27	5.28	2.94	2.04	1.41	1.39	1.23	
17	1.44	1.30	3.09	4.80	5.82	9.99	5.00	2.99	2.01	1.41	1.46	1.23	
18	2.23	1.37	2.80	4.62	6.68	9.66	4.67	3.10	2.00	1.41	1.52	1.22	
19	2.63	1.50	2.56	4.04	6.69	9.38	4.33	3.27	1.97	1.40	1.46	1.22	
20	2.60	1.60	2.31	4.57	6.70	9.00	4.18	4.07	1.90	1.40	1.44	1.21	
21	2.32	1.66	2.40	4.25	7.60	8.41	4.06	4.10	1.85	1.39	1.40	1.20	
22	2.01	1.61	2.76	4.26	9.06	7.94	4.27	3.89	1.81	1.37	1.37	1.19	
23	1.89	1.60	2.46	4.58	9.59	7.86	4.08	3.49	1.78	1.36	1.34	1.18	
24	1.78	1.75	2.41	4.22	10.05	7.84	3.99	3.19	1.75	1.36	1.32	1.17	
25	1.71	1.90	2.34	3.80	10.39	7.90	4.06	3.02	1.73	1.36	1.34	1.17	
26	1.72	1.97	2.24	3.48	10.57	7.90	4.65	2.91	1.71	1.36	1.35	1.17	
27	1.76	2.27	2.20	3.28	10.59	7.98	5.05	2.76	1.71	1.33	1.35	1.17	
28	1.62	2.18	2.21	3.20	10.55	8.25	5.01	2.76	1.69	1.33	1.35	1.19	
29	1.56	2.05	2.37	3.22	10.51	8.65	5.17	2.71	1.65	1.32		1.18	
30	1.48	1.98	2.66	3.18	10.54	9.06	5.24	2.65	1.62	1.32		1.14	
31		1.90		3.08	10.37		5.25		1.61	1.32		1.14	
MEAN	1.63	1.52	2.41	4.23	7.17	9.06	5.88	3.39	2.07	1.43	1.35	1.30	
MAX	2.63	2.27	3.99	5.67	10.59	10.36	9.60	4.75	2.65	1.59	1.52	1.86	10.59
MIN	1.31	1.21	1.53	3.08	3.66	7.70	3.99	2.65	1.61	1.32	1.30	1.14	1.14

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.75 M (MSL), AT 18.00 HOURS, ON AUG 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.16 M (MSL), RIVER BED 0.49 M (MSL)
LEFT BANK ELEVATION 14.35 M (MSL)
RIGHT BANK ELEVATION 14.77 M (MSL), DRAINAGE AREA 5347 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.18	2.74	6.90	27.80	42.50	366.00	297.10	66.50	16.60	3.93	2.04	2.25	
2	2.25	2.32	6.10	33.80	56.75	323.20	313.30	57.75	18.00	3.72	2.04	4.50	
3	2.04	2.25	5.50	38.75	53.75	269.00	316.00	51.25	16.20	3.65	2.04	6.60	
4	2.18	1.97	4.60	54.50	38.50	224.40	312.40	45.50	14.85	3.65	2.04	4.80	
5	2.32	1.69	4.00	64.70	40.25	192.60	264.30	40.75	14.40	3.58	2.04	3.58	
6	2.18	1.27	4.00	65.30	77.00	180.00	190.20	36.80	14.10	3.44	2.04	3.02	
7	1.97	1.34	3.58	58.25	115.40	225.10	142.20	34.00	13.65	3.44	2.04	2.60	
8	2.04	1.27	3.51	54.50	119.00	289.90	117.00	31.80	13.05	3.30	1.97	2.39	
9	3.58	1.34	5.60	48.75	117.40	330.40	105.15	30.60	12.45	3.23	1.97	2.25	
10	3.02	1.41	8.30	52.50	107.60	342.10	98.85	30.00	11.70	3.23	1.97	2.18	
11	2.39	1.97	12.60	94.10	101.65	361.00	105.85	29.80	11.10	3.09	1.90	1.97	
12	1.97	2.11	22.60	89.30	117.00	380.00	94.40	31.00	10.65	3.02	1.90	1.90	
13	2.81	1.69	42.75	77.00	123.40	386.00	88.70	29.40	10.35	2.95	1.90	1.62	
14	3.02	1.69	46.75	79.10	114.60	388.00	86.30	26.80	9.90	2.95	1.90	1.55	
15	3.09	1.48	41.00	82.40	105.50	387.00	84.80	25.00	9.15	2.81	2.11	1.48	
16	2.95	2.04	33.40	70.40	92.00	379.00	82.40	23.80	8.40	2.67	2.53	1.41	
17	2.88	1.90	26.80	68.00	99.20	351.10	74.00	24.80	8.10	2.67	3.02	1.41	
18	10.95	2.39	21.00	62.60	132.20	321.40	64.10	27.00	8.00	2.67	3.44	1.34	
19	17.60	3.30	16.20	48.00	132.60	296.20	55.25	30.40	7.70	2.60	3.02	1.34	
20	17.00	4.00	12.15	61.25	133.00	265.00	51.50	48.75	7.00	2.60	2.88	1.27	
21	12.30	4.60	13.50	53.25	175.00	223.70	48.50	49.50	6.50	2.53	2.60	1.20	
22	8.10	4.10	20.20	53.50	269.80	194.40	53.75	44.25	6.10	2.39	2.39	1.14	
23	6.90	4.00	14.40	61.50	315.10	189.60	49.00	34.80	5.80	2.32	2.18	1.08	
24	5.80	5.50	13.65	52.50	357.00	188.40	46.75	28.80	5.50	2.32	2.04	1.02	
25	5.10	7.00	12.60	42.00	391.00	192.00	48.50	25.40	5.30	2.32	2.18	1.02	
26	5.20	7.70	11.10	34.60	409.00	192.00	63.50	23.20	5.10	2.32	2.25	1.02	
27	5.60	11.55	10.50	30.60	411.00	196.80	75.50	20.20	5.10	2.11	2.25	1.02	
28	4.20	10.20	10.65	29.00	407.00	213.00	74.30	20.20	4.90	2.11	2.25	1.14	
29	3.72	8.50	13.05	29.40	403.00	240.50	79.10	19.20	4.50	2.04		1.08	
30	3.16	7.80	18.20	28.60	406.00	269.80	81.20	18.00	4.20	2.04		0.84	
31		7.00		26.60	389.00		81.50		4.10	2.04		0.84	
TOTAL	148.50	118.12	465.19	1672.55	5852.20	8357.60	3645.40	1005.25	292.45	87.74	62.93	60.86	21768.79 CMSDAY
MEAN	4.95	3.81	15.51	53.95	188.78	278.59	117.59	33.51	9.43	2.83	2.25	1.96	59.64 CMS
MAX	17.60	11.55	46.75	94.10	411.00	388.00	316.00	66.50	18.00	3.93	3.44	6.60	411.00 CMS
MIN	1.97	1.27	3.51	26.60	38.50	180.00	46.75	18.00	4.10	2.04	1.90	0.84	0.84 CMS
RUNOFF	12.830	10.206	40.192	144.508	505.630	722.097	314.963	86.854	25.268	7.581	5.437	5.258	1880.824 MCM

MOMENTARY PEAK 427.00 CMS, AT 10.75 M (MSL), AT 18.00 HOURS, ON AUG 27, 1982

RUNOFF YIELD 11.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 79.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

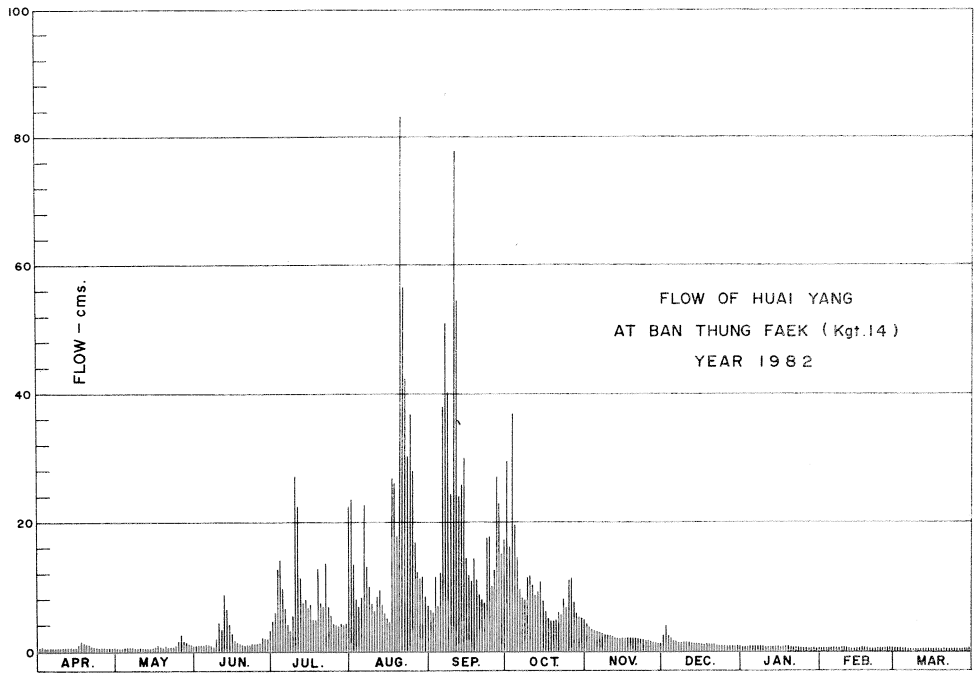
HUAI YANG AT BAN THUNG FAEK, PRACHIN BURI (KGT.14)

LOCATION	LAT. 14°-09'-30" N., LONG. 101°-52'-52" E., ON LEFT BANK ABOUT 2 KILOMETERS FROM KABIN BURI-NAKHON RATCHASIMA HIGHWAY, BAN THUNG FAEK, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	366 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+34.611 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+42.429 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 - 1981.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 - 1981
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 84 DISCHARGE MEASUREMENTS MADE DURING 1977-1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.98	34.79	34.95	35.36	36.26	35.48	36.47	35.32	35.11	34.93	34.86	34.83	
2	34.91	34.78	34.95	35.45	35.86	35.46	35.97	35.29	35.33	34.93	34.86	34.84	
3	34.87	34.77	34.95	35.82	35.64	35.77	36.71	35.27	35.15	34.93	34.86	34.83	
4	34.85	34.76	34.95	35.88	35.51	35.53	36.15	35.25	35.12	34.93	34.85	34.83	
5	34.84	34.76	34.93	35.67	35.61	35.81	35.82	35.25	35.08	34.93	34.85	34.83	
6	34.82	34.76	34.92	35.48	36.24	36.85	35.68	35.24	35.05	34.93	34.85	34.83	
7	34.84	34.78	34.91	35.32	35.89	37.10	35.61	35.22	35.04	34.93	34.85	34.84	
8	34.86	34.88	34.90	35.24	35.73	36.70	35.59	35.21	35.03	34.92	34.84	34.82	
9	34.85	34.86	35.11	35.47	35.56	36.30	35.76	35.19	35.03	34.92	34.84	34.80	
10	34.92	34.84	35.36	36.40	35.48	37.14	35.78	35.17	35.02	34.92	34.84	34.79	
11	34.92	34.84	35.26	36.22	35.61	37.75	35.72	35.16	35.02	34.91	34.84	34.79	
12	34.88	34.82	35.63	35.85	35.68	36.28	35.63	35.15	35.01	34.90	34.84	34.79	
13	34.87	34.81	35.50	35.56	35.55	36.35	35.66	35.15	35.00	34.90	34.84	34.79	
14	34.85	34.80	35.29	35.60	35.46	36.48	35.74	35.15	35.00	34.89	34.84	34.80	
15	34.88	34.83	35.17	35.52	35.40	35.94	35.53	35.15	34.99	34.89	34.84	34.79	
16	34.96	34.93	35.06	35.56	35.36	35.79	35.45	35.14	34.98	34.89	34.85	34.79	
17	35.08	34.97	35.01	35.39	36.38	35.74	35.40	35.14	34.98	34.89	34.85	34.79	
18	35.03	34.94	34.96	35.40	36.35	35.90	35.37	35.14	34.97	34.88	34.84	34.79	
19	34.96	34.89	34.95	35.83	36.04	35.75	35.37	35.14	34.96	34.89	34.84	34.79	
20	34.94	34.91	34.93	35.56	36.27	35.64	35.40	35.13	34.96	34.90	34.83	34.78	
21	34.92	34.89	34.92	35.54	37.87	35.60	35.47	35.13	34.96	34.89	34.83	34.78	
22	34.91	34.88	35.00	35.86	36.92	35.55	35.45	35.10	34.96	34.88	34.83	34.77	
23	34.88	34.88	35.01	35.55	36.50	36.02	35.60	35.08	34.96	34.88	34.83	34.77	
24	34.86	34.96	35.01	35.42	36.71	36.04	35.52	35.08	34.95	34.88	34.83	34.77	
25	34.85	35.10	35.01	35.35	36.47	35.70	35.74	35.07	34.95	34.89	34.82	34.77	
26	34.83	35.19	35.02	35.31	36.05	35.84	35.76	35.05	34.94	34.90	34.82	34.77	
27	34.83	35.07	35.14	35.31	35.82	36.39	35.52	35.04	34.94	34.91	34.82	34.76	
28	34.82	35.03	35.12	35.36	35.75	36.23	35.45	35.03	34.94	34.91	34.82	34.76	
29	34.81	35.00	35.13	35.32	35.78	35.93	35.41	35.03	34.94	34.89		34.75	
30	34.80	34.97	35.27	35.37	35.65	36.02	35.42	35.03	34.94	34.87		34.74	
31		34.95		36.23	35.55		35.37		34.94	34.87		34.74	
MEAN	34.89	34.89	35.08	35.59	35.97	36.10	35.66	35.15	35.01	34.90	34.84	34.79	
MAX	35.08	35.19	35.63	36.40	37.87	37.75	36.71	35.32	35.33	34.93	34.86	34.84	37.87
MIN	34.80	34.76	34.90	35.24	35.36	35.46	35.37	35.03	34.94	34.87	34.82	34.74	34.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 38.62 M (MSL), AT 5.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 34.61 M (MSL), RIVER BED 33.07 M (MSL)
LEFT BANK ELEVATION 43.02 M (MSL)
RIGHT BANK ELEVATION 43.13 M (MSL), DRAINAGE AREA 336 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.72	0.19	0.60	4.28	23.42	6.00	29.30	3.76	1.49	0.52	0.32	0.26	
2	0.44	0.18	0.60	5.55	13.28	5.70	15.88	3.38	3.89	0.52	0.32	0.28	
3	0.34	0.17	0.60	12.36	8.66	11.27	36.94	3.14	1.85	0.52	0.32	0.26	
4	0.30	0.16	0.60	13.74	6.46	6.78	20.50	2.90	1.58	0.52	0.30	0.26	
5	0.28	0.16	0.52	9.23	8.09	12.13	12.36	2.90	1.28	0.52	0.30	0.26	
6	0.24	0.16	0.48	6.00	22.88	41.75	9.42	2.78	1.10	0.52	0.30	0.26	
7	0.28	0.18	0.44	3.76	13.97	50.90	8.09	2.54	1.04	0.52	0.30	0.28	
8	0.32	0.36	0.40	2.78	10.43	36.60	7.74	2.42	0.98	0.48	0.28	0.24	
9	0.30	0.32	1.49	5.85	7.26	24.50	11.06	2.21	0.98	0.48	0.28	0.20	
10	0.48	0.28	4.28	27.20	6.00	52.46	11.48	2.03	0.92	0.48	0.28	0.19	
11	0.48	0.28	3.02	22.34	8.09	77.58	10.22	1.94	0.92	0.44	0.28	0.19	
12	0.36	0.24	8.47	13.05	9.42	23.96	8.47	1.85	0.86	0.40	0.28	0.19	
13	0.34	0.22	6.30	7.26	7.10	25.85	9.04	1.85	0.80	0.40	0.28	0.19	
14	0.30	0.20	3.38	7.90	5.70	29.60	10.64	1.85	0.80	0.38	0.28	0.20	
15	0.36	0.26	2.03	6.62	4.80	15.16	6.78	1.85	0.76	0.38	0.28	0.19	
16	0.64	0.52	1.16	7.26	4.28	11.69	5.55	1.76	0.72	0.38	0.30	0.19	
17	1.28	0.68	0.86	4.67	26.66	10.64	4.80	1.76	0.72	0.38	0.30	0.19	
18	0.98	0.56	0.64	4.80	25.85	14.20	4.41	1.76	0.68	0.36	0.28	0.19	
19	0.64	0.38	0.60	12.59	17.64	10.85	4.41	1.76	0.64	0.38	0.28	0.19	
20	0.56	0.44	0.52	7.26	23.69	8.66	4.80	1.67	0.64	0.40	0.26	0.18	
21	0.48	0.38	0.48	6.94	82.91	7.90	5.85	1.67	0.64	0.38	0.26	0.18	
22	0.44	0.36	0.80	13.28	44.22	7.10	5.55	1.40	0.64	0.36	0.26	0.17	
23	0.36	0.36	0.86	7.10	30.20	17.12	7.90	1.28	0.64	0.36	0.26	0.17	
24	0.32	0.64	0.86	5.10	36.94	17.64	6.62	1.28	0.60	0.36	0.26	0.17	
25	0.30	1.40	0.86	4.15	29.30	9.80	10.64	1.22	0.60	0.38	0.24	0.17	
26	0.26	2.21	0.92	3.63	17.90	12.82	11.06	1.10	0.56	0.40	0.24	0.17	
27	0.26	1.22	1.76	3.63	12.36	26.93	6.62	1.04	0.56	0.44	0.24	0.16	
28	0.24	0.98	1.58	4.28	10.85	22.61	5.55	0.98	0.56	0.44	0.24	0.16	
29	0.22	0.80	1.67	3.76	11.48	14.92	4.95	0.98	0.56	0.38		0.15	
30	0.20	0.68	3.14	4.41	8.85	17.12	5.10	0.98	0.56	0.34		0.14	
31		0.60		22.61	7.10		4.41		0.56	0.34		0.14	
TOTAL	12.72	15.57	49.92	263.39	545.79	630.24	306.14	58.04	29.13	13.16	7.82	6.17	1938.09 CMSDAY
MEAN	0.42	0.50	1.66	8.50	17.61	21.01	9.88	1.93	0.94	0.42	0.28	0.20	5.31 CMS
MAX	1.28	2.21	8.47	27.20	82.91	77.58	36.94	3.76	3.89	0.52	0.32	0.28	82.91 CMS
MIN	0.20	0.16	0.40	2.78	4.28	5.70	4.41	0.98	0.56	0.34	0.24	0.14	0.14 CMS
RUNOFF	1.099	1.345	4.313	22.757	47.156	54.453	26.451	5.015	2.517	1.137	0.676	0.533	167.451 MCM

MOMENTARY PEAK 118.80 CMS, AT 38.62 M (MSL), AT 5.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 15.80 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 353.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

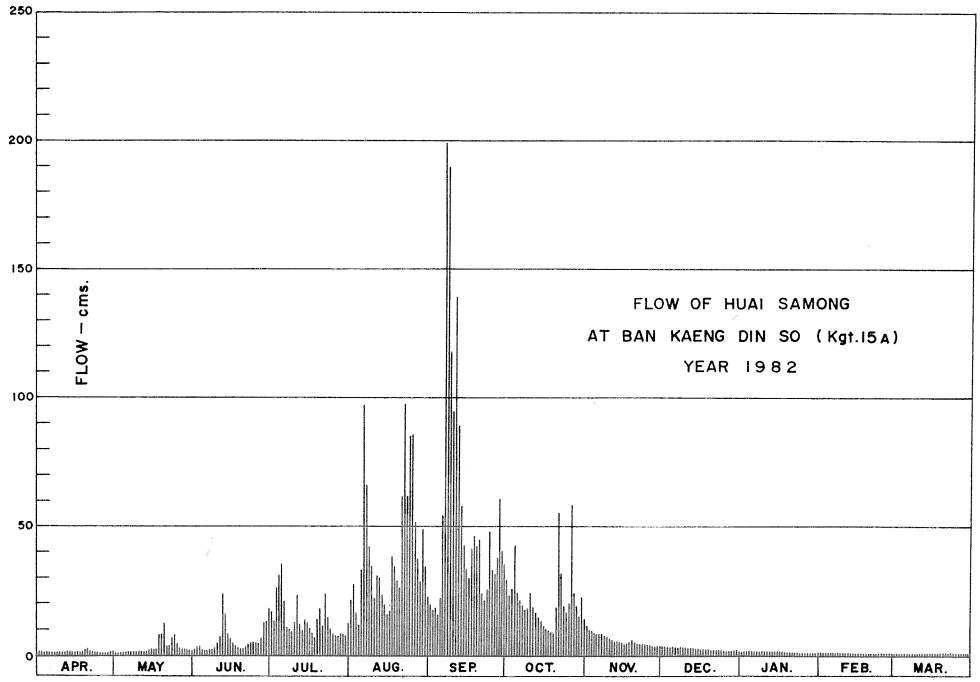
HUAI SAMONG AT BAN KAENG DIN SO, PRACHIN BURI (KGT.15A)

LOCATION	LAT. 14°-03'-46" N., LONG. 101°-55'-39" E., ON RIGHT BANK AT BAN KAENG DIN SO ABOUT 1 KILOMETERS UPSTREAM FROM THE KGT.15 STATION, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	530 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE AND NEAR THE RAIN GAGE.
ELEVATION	+9.615 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 TO DATE.
RATED BY FLOAT	-
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 138 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.60	0.81	1.88	2.11	2.05	2.39	1.66	1.00	0.77	0.67	0.63	
2	0.62	0.60	0.87	1.71	2.36	1.95	2.16	1.57	1.00	0.77	0.67	0.63	
3	0.61	0.58	0.84	2.32	1.87	2.00	2.34	1.51	1.00	0.77	0.67	0.63	
4	0.60	0.56	0.78	2.50	1.66	1.85	2.87	1.48	0.98	0.77	0.67	0.62	
5	0.60	0.55	0.76	2.66	2.60	2.16	2.25	1.44	0.96	0.77	0.66	0.61	
6	0.60	0.55	0.79	2.05	4.36	3.72	2.09	1.49	0.95	0.77	0.66	0.61	
7	0.60	0.55	0.84	1.59	3.68	6.34	2.03	1.44	0.93	0.77	0.66	0.60	
8	0.65	0.55	0.83	1.41	2.94	6.13	1.95	1.40	0.92	0.76	0.66	0.60	
9	0.65	0.55	0.96	1.45	2.58	4.70	2.01	1.37	0.91	0.76	0.66	0.60	
10	0.61	0.56	1.26	1.78	2.10	4.30	2.24	1.32	0.90	0.75	0.66	0.59	
11	0.60	0.56	1.38	2.21	2.48	5.17	1.97	1.27	0.89	0.74	0.66	0.60	
12	0.62	0.69	2.21	1.68	2.44	3.99	1.92	1.24	0.88	0.74	0.65	0.65	
13	0.69	0.67	1.76	1.50	2.20	3.38	1.83	1.22	0.87	0.73	0.65	0.65	
14	0.65	0.80	1.39	1.77	2.00	2.91	1.76	1.21	0.86	0.72	0.68	0.61	
15	0.64	0.86	1.27	1.70	1.84	2.53	1.64	1.20	0.85	0.71	0.69	0.58	
16	0.64	0.85	1.05	1.55	1.92	2.34	1.57	1.18	0.84	0.71	0.68	0.58	
17	0.65	0.86	0.96	1.41	2.72	2.73	1.51	1.20	0.84	0.71	0.68	0.58	
18	0.66	1.41	0.92	1.33	2.62	3.01	1.47	1.27	0.83	0.70	0.67	0.57	
19	0.85	1.41	0.89	1.80	2.37	2.86	1.44	1.23	0.83	0.70	0.66	0.57	
20	0.95	1.69	0.95	1.94	2.30	2.96	1.98	1.18	0.81	0.70	0.65	0.57	
21	0.74	0.98	0.99	1.63	4.12	2.33	3.28	1.15	0.81	0.69	0.63	0.57	
22	0.68	1.02	1.12	2.18	4.36	2.08	2.57	1.13	0.81	0.68	0.62	0.57	
23	0.66	1.30	1.17	1.76	3.46	2.30	2.01	1.12	0.80	0.68	0.62	0.57	
24	0.64	1.38	1.17	1.52	4.06	3.04	1.90	1.11	0.80	0.67	0.62	0.57	
25	0.63	1.08	1.12	1.40	4.09	2.61	2.12	1.09	0.80	0.67	0.62	0.58	
26	0.63	0.92	1.07	1.36	3.17	2.48	3.37	1.07	0.79	0.67	0.63	0.58	
27	0.63	0.88	1.38	1.41	2.66	2.79	2.31	1.05	0.78	0.67	0.64	0.57	
28	0.62	0.86	1.75	1.46	2.40	3.46	1.96	1.03	0.78	0.67	0.63	0.55	
29	0.61	0.81	1.76	1.46	3.08	2.87	1.83	1.02	0.77	0.67		0.56	
30	0.61	0.78	1.94	1.34	2.70	2.62	2.14	1.01	0.77	0.67		0.56	
31		0.76		1.76	2.22		1.81		0.77	0.67		0.53	
MEAN	0.65	0.85	1.17	1.73	2.76	3.12	2.09	1.26	0.86	0.72	0.65	0.59	
MAX	0.95	1.69	2.21	2.66	4.36	6.34	3.37	1.66	1.00	0.77	0.69	0.65	6.34
MIN	0.60	0.55	0.76	1.33	1.66	1.85	1.44	1.01	0.77	0.67	0.62	0.53	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.59 M (A.D), AT 18.00 HOURS, ON SEP 7, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.70 M (A.D)
LEFT BANK ELEVATION 12.93 M (A.D)
RIGHT BANK ELEVATION 10.50 M (A.D), DRAINAGE AREA 530 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.40	1.88	16.26	21.53	20.15	27.89	11.70	3.40	1.56	0.82	0.58	
2	0.52	0.40	2.36	12.70	26.96	17.85	22.68	10.05	3.40	1.56	0.82	0.58	
3	0.46	0.36	2.12	25.72	16.04	19.00	26.34	9.15	3.40	1.56	0.82	0.58	
4	0.40	0.32	1.64	31.30	11.70	15.60	42.44	8.72	3.24	1.56	0.82	0.52	
5	0.40	0.30	1.48	35.80	34.00	22.68	24.35	8.16	3.08	1.56	0.76	0.46	
6	0.40	0.30	1.72	20.15	96.70	71.16	21.07	8.86	3.00	1.56	0.76	0.46	
7	0.40	0.30	2.12	10.35	69.64	199.06	19.69	8.16	2.84	1.56	0.76	0.40	
8	0.70	0.30	2.04	7.74	44.68	189.42	17.85	7.60	2.76	1.48	0.76	0.40	
9	0.70	0.30	3.08	8.30	33.46	112.00	19.23	7.18	2.68	1.48	0.76	0.40	
10	0.46	0.32	5.72	14.10	21.30	94.00	24.20	6.48	2.60	1.40	0.76	0.38	
11	0.40	0.32	7.32	23.75	30.68	138.78	18.31	5.84	2.52	1.32	0.76	0.40	
12	0.52	0.94	23.75	12.10	29.44	81.61	17.16	5.48	2.44	1.32	0.70	0.70	
13	0.94	0.82	13.70	9.00	23.60	59.02	15.16	5.24	2.36	1.24	0.70	0.70	
14	0.70	1.80	7.46	13.90	19.00	43.72	13.70	5.12	2.28	1.16	0.88	0.46	
15	0.64	2.28	5.84	12.50	15.38	32.11	11.30	5.00	2.20	1.08	0.94	0.36	
16	0.64	2.20	3.80	9.75	17.16	26.34	10.05	4.84	2.12	1.08	0.88	0.36	
17	0.70	2.28	3.08	7.74	37.64	37.96	9.15	5.00	2.12	1.08	0.88	0.36	
18	0.76	7.74	2.76	6.62	34.60	46.92	8.58	5.84	2.04	1.00	0.82	0.34	
19	2.20	7.74	2.52	14.50	27.27	42.12	8.16	5.36	2.04	1.00	0.76	0.34	
20	3.00	12.30	3.00	17.62	25.10	45.32	18.54	4.84	1.88	1.00	0.70	0.34	
21	1.32	3.24	3.32	11.10	86.80	26.03	55.64	4.60	1.88	0.94	0.58	0.34	
22	0.88	3.56	4.36	23.14	96.70	20.84	33.19	4.44	1.88	0.88	0.52	0.34	
23	0.76	6.20	4.76	13.70	61.74	25.10	19.23	4.36	1.80	0.88	0.52	0.34	
24	0.64	7.32	4.76	9.30	84.40	47.88	16.70	4.28	1.80	0.82	0.52	0.34	
25	0.58	4.04	4.36	7.60	85.60	34.30	21.76	4.12	1.80	0.82	0.52	0.36	
26	0.58	2.76	3.96	7.04	52.04	30.68	58.68	3.96	1.72	0.82	0.58	0.36	
27	0.58	2.44	7.32	7.74	35.80	39.88	25.41	3.80	1.64	0.82	0.64	0.34	
28	0.52	2.28	13.50	8.44	28.20	61.74	18.08	3.64	1.64	0.82	0.58	0.30	
29	0.46	1.88	13.70	8.44	49.16	42.44	15.16	3.56	1.56	0.82		0.32	
30	0.46	1.64	17.62	6.76	37.00	34.60	22.22	3.48	1.56	0.82		0.32	
31		1.48		13.70	23.90		14.72		1.56	0.82		0.26	
TOTAL	22.24	78.56	175.05	426.86	1277.22	1678.31	676.64	178.86	71.24	35.82	20.32	12.74	4653.86 CMSDAY
MEAN	0.74	2.53	5.84	13.77	41.20	55.94	21.83	5.96	2.30	1.16	0.73	0.41	12.75 CMS
MAX	3.00	12.30	23.75	35.80	96.70	199.06	58.68	11.70	3.40	1.56	0.94	0.70	199.06 CMS
MIN	0.40	0.30	1.48	6.62	11.70	15.60	8.16	3.48	1.56	0.82	0.52	0.26	0.26 CMS
RUNOFF	1.922	6.788	15.124	36.881	110.352	145.006	58.462	15.454	6.155	3.095	1.756	1.101	402.094 MCM

MOMENTARY PEAK 210.54 CMS, AT 6.59 M (A.D), AT 18.00 HOURS, ON SEP 7, 1982

RUNOFF YIELD 24.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 397.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

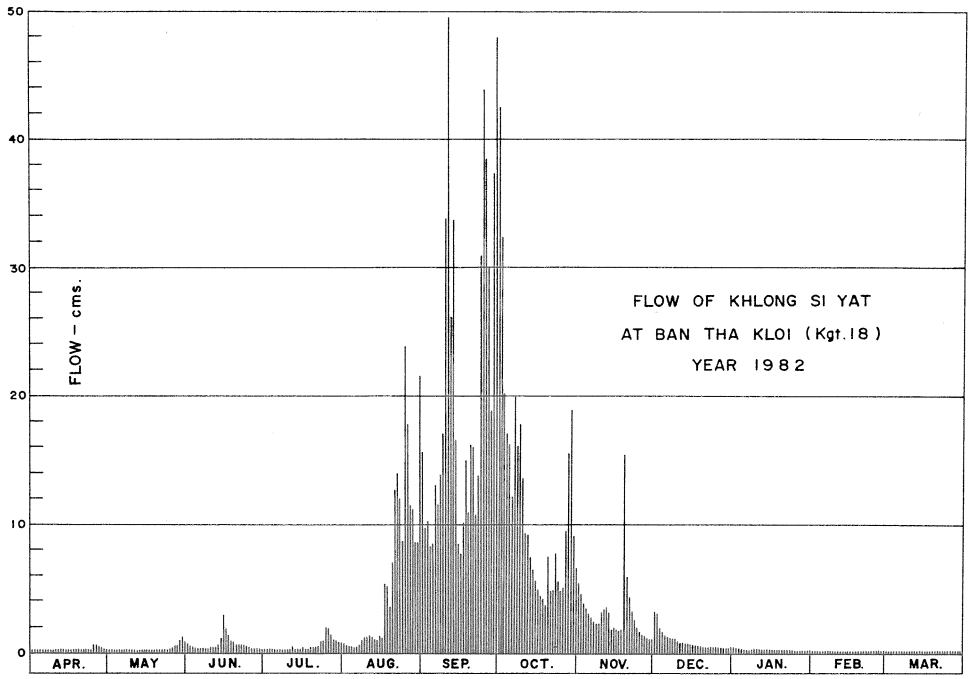
KHLONG SI YAT AT BAN THA KLOI, CHACHOENGSAO (KGT.18)

LOCATION	LAT. 13°-28'-29" N., LONG. 101°-37'-44" E., ON LEFT BANK AT BAN THA KLOI, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.
DRAINAGE AREA	951 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	UNDER THE COCONUT TREE INFRONT OF THE STATION OFFICE.
ELEVATION	+7.213 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	0.78	1.00	0.81	0.97	2.56	4.10	1.82	1.48	0.80	0.74	0.70	
2	0.70	0.76	0.93	0.80	0.94	2.24	3.75	1.70	1.44	0.80	0.75	0.70	
3	0.71	0.75	0.89	0.79	0.91	2.28	3.01	1.60	1.31	0.80	0.74	0.70	
4	0.71	0.73	0.85	0.78	0.89	2.10	2.86	1.53	1.21	0.79	0.75	0.69	
5	0.70	0.73	0.84	0.77	0.88	2.13	2.75	1.47	1.17	0.79	0.76	0.69	
6	0.70	0.72	0.83	0.76	0.91	2.53	2.46	1.42	1.12	0.79	0.75	0.68	
7	0.70	0.72	0.81	0.81	0.93	3.12	3.02	1.38	1.11	0.79	0.76	0.68	
8	0.70	0.72	0.82	0.80	1.02	2.75	2.70	1.34	1.08	0.79	0.78	0.68	
9	0.71	0.72	0.84	0.77	1.09	2.88	2.88	1.35	1.05	0.79	0.76	0.67	
10	0.71	0.70	0.87	0.79	1.10	3.63	2.42	1.50	1.03	0.79	0.73	0.68	
11	0.71	0.70	0.86	0.81	1.14	4.42	2.20	1.50	1.01	0.79	0.73	0.68	
12	0.83	0.69	0.88	0.85	1.14	3.37	2.19	1.38	1.00	0.78	0.72	0.68	
13	0.82	0.68	0.98	0.79	1.06	3.75	2.03	1.32	0.98	0.78	0.71	0.67	
14	0.79	0.67	1.13	0.77	1.05	2.38	1.94	1.26	0.95	0.78	0.72	0.66	
15	0.78	0.67	1.44	0.76	1.13	2.12	1.85	1.28	0.94	0.77	0.73	0.66	
16	0.77	0.67	1.28	0.76	1.11	2.05	1.73	1.26	0.93	0.77	0.73	0.65	
17	0.76	0.67	1.14	0.76	1.79	2.30	1.65	1.25	0.92	0.77	0.73	0.65	
18	0.76	0.66	1.04	0.80	1.77	2.68	1.57	1.24	0.91	0.77	0.73	0.68	
19	0.80	0.66	0.99	0.82	1.50	2.36	1.54	2.56	0.89	0.76	0.72	0.74	
20	0.78	0.65	0.96	0.82	1.83	2.76	2.02	1.96	0.88	0.76	0.71	0.73	
21	0.77	0.65	0.97	0.81	2.40	2.75	1.72	1.68	0.88	0.76	0.71	0.70	
22	0.76	0.65	0.96	0.90	2.60	2.35	1.73	1.51	0.88	0.76	0.71	0.69	
23	0.75	0.65	0.93	1.03	2.47	2.64	2.06	1.40	0.85	0.75	0.71	0.69	
24	0.74	0.68	0.90	1.06	2.15	4.03	1.85	1.30	0.85	0.75	0.71	0.68	
25	0.94	0.70	0.88	1.28	3.25	4.19	1.69	1.23	0.84	0.74	0.71	0.67	
26	0.94	0.84	0.86	1.26	3.03	3.68	1.76	1.19	0.84	0.74	0.70	0.66	
27	0.87	0.92	0.84	1.17	2.41	3.30	2.12	1.14	0.83	0.74	0.70	0.65	
28	0.83	0.95	0.84	1.07	2.36	2.95	2.55	1.11	0.82	0.77	0.78	0.65	
29	0.80	1.01	0.83	1.04	2.14	3.93	2.95	1.08	0.82	0.77		0.64	
30	0.80	1.12	0.82	1.02	2.14	4.36	2.29	1.07	0.82	0.77		0.63	
31		1.09		0.99	3.12		2.00		0.81	0.77		0.62	
MEAN	0.77	0.75	0.94	0.89	1.65	2.95	2.30	1.43	0.99	0.77	0.73	0.68	
MAX	0.94	1.12	1.44	1.28	3.25	4.42	4.10	2.56	1.48	0.80	0.78	0.74	4.42
MIN	0.70	0.65	0.81	0.76	0.88	2.05	1.54	1.07	0.81	0.74	0.70	0.62	0.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.61 M (A.D), AT 12.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.13 M (A.D)
LEFT BANK ELEVATION 7.42 M (A.D)
RIGHT BANK ELEVATION 7.02 M (A.D), DRAINAGE AREA 951 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.18	0.70	0.22	0.61	13.38	41.50	5.56	3.17	0.20	0.14	0.10	
2	0.10	0.16	0.49	0.20	0.52	9.64	33.65	4.70	2.91	0.20	0.15	0.10	
3	0.11	0.15	0.38	0.19	0.43	10.08	19.76	4.00	2.06	0.20	0.14	0.10	
4	0.11	0.13	0.30	0.18	0.38	8.20	17.50	3.51	1.55	0.19	0.15	0.09	
5	0.10	0.13	0.28	0.17	0.36	8.50	15.90	3.11	1.38	0.19	0.16	0.09	
6	0.10	0.12	0.26	0.16	0.43	12.99	12.12	2.78	1.18	0.19	0.15	0.08	
7	0.10	0.12	0.22	0.22	0.49	21.54	19.92	2.52	1.14	0.19	0.16	0.08	
8	0.10	0.12	0.24	0.20	0.78	15.90	15.20	2.26	1.02	0.19	0.18	0.08	
9	0.11	0.12	0.28	0.17	1.06	17.80	17.80	2.33	0.90	0.19	0.16	0.07	
10	0.11	0.10	0.34	0.19	1.10	31.13	11.64	3.30	0.82	0.19	0.13	0.08	
11	0.11	0.10	0.32	0.22	1.26	49.42	9.20	3.30	0.74	0.19	0.13	0.08	
12	0.26	0.09	0.36	0.30	1.26	26.03	9.10	2.52	0.70	0.18	0.12	0.08	
13	0.24	0.08	0.64	0.19	0.94	33.65	7.50	2.13	0.64	0.18	0.11	0.07	
14	0.19	0.07	1.22	0.17	0.90	11.18	6.60	1.80	0.55	0.18	0.12	0.06	
15	0.18	0.07	2.91	0.16	1.22	8.40	5.80	1.90	0.52	0.17	0.13	0.06	
16	0.17	0.07	1.90	0.16	1.14	7.70	4.91	1.80	0.49	0.17	0.13	0.05	
17	0.16	0.07	1.26	0.16	5.33	10.30	4.35	1.75	0.46	0.17	0.13	0.05	
18	0.16	0.06	0.86	0.20	5.19	14.94	3.79	1.70	0.43	0.17	0.13	0.08	
19	0.20	0.06	0.67	0.24	3.30	10.96	3.58	13.38	0.38	0.16	0.12	0.14	
20	0.18	0.05	0.58	0.24	5.64	16.04	7.40	6.80	0.36	0.16	0.11	0.13	
21	0.17	0.05	0.61	0.22	11.40	15.90	4.84	4.56	0.36	0.16	0.11	0.10	
22	0.16	0.05	0.58	0.40	13.90	10.85	4.91	3.37	0.36	0.16	0.11	0.09	
23	0.15	0.05	0.49	0.82	12.24	14.42	7.80	2.65	0.30	0.15	0.11	0.09	
24	0.14	0.08	0.40	0.94	8.70	39.89	5.80	2.00	0.30	0.15	0.11	0.08	
25	0.52	0.10	0.36	1.90	23.80	43.66	4.63	1.65	0.28	0.14	0.11	0.07	
26	0.52	0.28	0.32	1.80	20.08	32.18	5.12	1.46	0.28	0.14	0.10	0.06	
27	0.34	0.46	0.28	1.38	11.52	24.70	8.40	1.26	0.26	0.14	0.10	0.05	
28	0.26	0.55	0.28	0.98	10.96	18.85	13.25	1.14	0.24	0.17	0.18	0.05	
29	0.20	0.74	0.26	0.86	8.60	37.59	18.85	1.02	0.24	0.17		0.04	
30	0.20	1.18	0.24	0.78	8.60	47.86	10.19	0.98	0.24	0.17		0.03	
31		1.06		0.67	21.54		7.20		0.22	0.17		0.02	
TOTAL	5.55	6.65	18.03	14.69	183.68	623.68	358.21	91.24	24.48	5.38	3.68	2.35	1337.62 CMSDAY
MEAN	0.19	0.21	0.60	0.47	5.93	20.79	11.56	3.04	0.79	0.17	0.13	0.08	3.66 CMS
MAX	0.52	1.18	2.91	1.90	23.80	49.42	41.50	13.38	3.17	0.20	0.18	0.14	49.42 CMS
MIN	0.10	0.05	0.22	0.16	0.36	7.70	3.58	0.98	0.22	0.14	0.10	0.02	0.02 CMS
RUNOFF	0.480	0.575	1.558	1.269	15.870	53.886	30.949	7.883	2.115	0.465	0.318	0.203	115.570 MCM

MOMENTARY PEAK 54.58 CMS, AT 4.61 M (A.D), AT 12.00 HOURS, ON SEP 11, 1982

RUNOFF YIELD 3.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.39 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

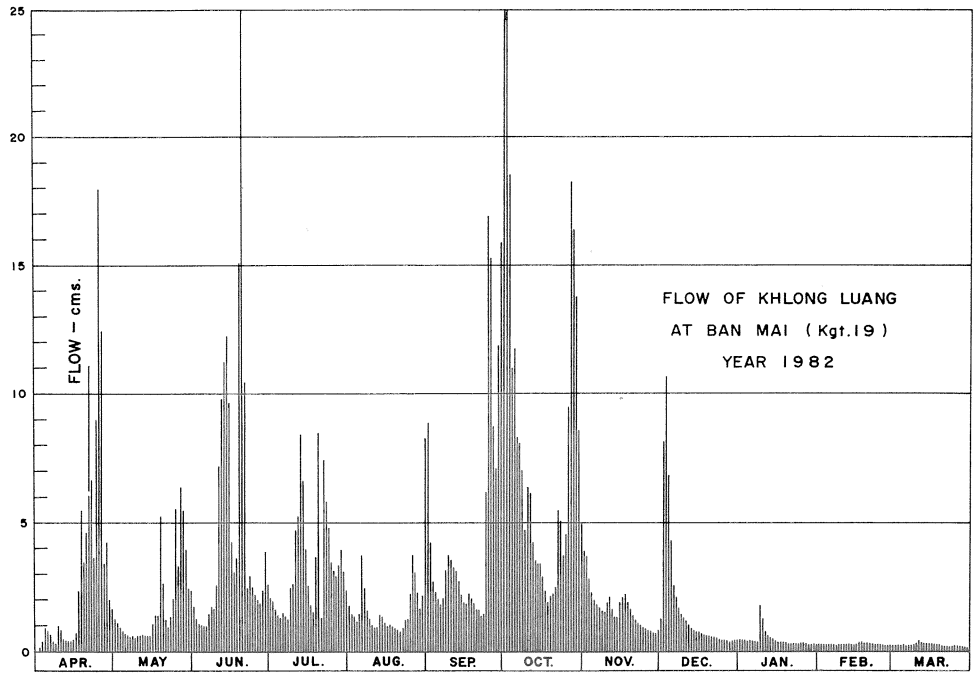
KHLONG LUANG AT BAN MAI, CHON BURI (KGT.19)

LOCATION	LAT. 13°-23'-17" N., LONG. 101°-20'-40" E., ON LEFT BANK ABOUT 4 KILOMETERS EAST OF KHOK PHO MARKET AND ABOUT 16 KILOMETERS FROM AMPHOE PHANAT NIKHOM, CHON BURI.
DRAINAGE AREA	535 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+20.124 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BESIDE THE METEOROLOGICAL STATION.
ELEVATION	+25.658 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1974
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 336 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.40	21.36	21.40	21.62	21.48	23.32	25.13	22.17	21.33	20.94	20.80	20.76	
2	20.48	21.30	21.29	21.56	21.40	22.30	25.17	21.96	23.09	20.93	20.80	20.76	
3	20.98	21.23	21.24	21.46	21.33	21.86	24.51	21.79	23.63	20.92	20.80	20.76	
4	21.20	21.14	21.22	21.37	21.28	21.70	23.68	21.68	22.74	20.91	20.80	20.76	
5	21.12	21.10	21.22	21.33	21.46	21.61	23.80	21.58	22.16	20.92	20.80	20.76	
6	21.00	21.06	21.21	21.43	22.11	21.52	23.20	21.52	21.82	20.91	20.79	20.76	
7	20.92	21.04	21.41	21.39	21.57	21.62	23.14	21.47	21.60	20.86	20.79	20.76	
8	20.86	21.03	21.50	21.34	21.42	21.94	22.89	21.43	21.46	20.84	20.79	20.76	
9	21.23	21.01	21.48	21.75	21.28	22.14	22.38	21.42	21.38	21.52	20.78	20.87	
10	21.20	21.01	22.12	21.81	21.22	22.08	22.81	21.57	21.31	21.36	20.78	20.96	
11	20.98	21.05	23.34	22.39	21.18	21.99	22.76	21.63	21.26	21.10	20.80	20.88	
12	20.95	21.06	23.59	22.57	21.21	21.97	22.31	21.44	21.20	21.03	20.78	20.84	
13	20.93	21.01	23.74	23.22	21.39	21.82	22.07	21.36	21.18	21.00	20.79	20.81	
14	20.92	21.04	23.87	22.77	21.35	21.68	22.04	21.33	21.14	20.96	20.78	20.79	
15	20.94	21.06	22.99	22.12	21.25	21.56	22.03	21.54	21.10	20.92	20.76	20.78	
16	21.09	21.28	22.11	21.74	21.20	21.56	21.88	21.62	21.09	20.90	20.76	20.78	
17	21.69	21.39	21.80	21.51	21.23	21.68	21.68	21.67	21.06	20.89	20.86	20.78	
18	22.58	21.37	22.43	21.44	21.22	21.61	21.56	21.54	21.04	20.88	20.88	20.78	
19	21.93	22.52	24.41	22.24	21.16	21.54	21.64	21.46	21.03	20.86	20.83	20.77	
20	22.51	21.67	25.13	23.24	21.13	21.45	21.68	21.38	21.00	20.83	20.83	20.76	
21	23.71	21.32	23.64	21.34	21.12	21.48	21.75	21.32	20.99	20.82	20.81	20.76	
22	23.08	21.22	21.74	23.02	21.16	21.36	22.57	21.26	20.96	20.82	20.80	20.75	
23	22.08	21.45	21.90	22.68	21.30	21.42	22.46	21.22	20.96	20.82	20.79	20.73	
24	23.06	21.93	21.72	22.38	21.33	23.30	22.14	21.19	20.93	20.81	20.78	20.72	
25	24.56	22.58	21.63	22.04	21.69	24.45	22.41	21.17	20.94	20.80	20.77	20.71	
26	24.26	22.03	21.58	21.94	22.13	24.21	23.76	21.14	20.92	20.80	20.76	20.70	
27	22.20	22.80	21.54	21.88	21.82	23.06	24.59	21.13	20.90	20.80	20.76	20.70	
28	22.27	22.59	21.74	22.06	21.60	22.97	24.42	21.12	20.90	20.80	20.76	20.68	
29	21.60	21.86	22.16	22.19	21.46	23.96	24.09	21.10	20.92	20.80		20.68	
30	21.46	21.73	21.73	21.86	21.70	24.53	23.27	21.08	20.95	20.79		20.67	
31		21.68		21.61	23.10		22.49		20.95	20.78		20.66	
MEAN	21.74	21.48	22.23	21.98	21.46	22.26	22.91	21.44	21.35	20.91	20.79	20.76	
MAX	24.56	22.80	25.13	23.24	23.10	24.53	25.17	22.17	23.63	21.52	20.88	20.96	25.17
MIN	20.40	21.01	21.21	21.33	21.12	21.36	21.56	21.08	20.90	20.78	20.76	20.66	20.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.26 M (MSL), AT 18.00 HOURS, ON OCT 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 20.12 M (MSL), RIVER BED 20.16 M (MSL)
LEFT BANK ELEVATION 25.38 M (MSL)
RIGHT BANK ELEVATION 25.52 M (MSL), DRAINAGE AREA 535 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	1.30	1.40	2.06	1.64	8.91	26.92	3.84	1.23	0.41	0.25	0.21	
2	0.04	1.15	1.13	1.88	1.40	4.35	27.88	3.11	7.75	0.40	0.25	0.21	
3	0.47	0.98	1.00	1.58	1.23	2.78	17.50	2.57	10.68	0.38	0.25	0.21	
4	0.90	0.78	0.95	1.33	1.10	2.30	10.98	2.24	6.11	0.37	0.25	0.21	
5	0.74	0.70	0.95	1.23	1.58	2.03	11.75	1.94	3.81	0.38	0.25	0.21	
6	0.50	0.62	0.93	1.49	3.64	1.76	8.30	1.76	2.66	0.37	0.24	0.21	
7	0.38	0.58	1.43	1.38	1.91	2.06	8.00	1.61	2.00	0.31	0.24	0.21	
8	0.31	0.56	1.70	1.25	1.46	3.04	6.76	1.49	1.58	0.29	0.24	0.21	
9	0.98	0.52	1.64	2.45	1.10	3.74	4.67	1.46	1.35	1.76	0.23	0.32	
10	0.90	0.52	3.67	2.63	0.95	3.53	6.40	1.91	1.18	1.30	0.23	0.44	
11	0.47	0.60	9.02	4.71	0.86	3.22	6.19	2.09	1.05	0.70	0.25	0.33	
12	0.43	0.62	10.44	5.43	0.93	3.15	4.39	1.52	0.90	0.56	0.23	0.29	
13	0.40	0.52	11.36	8.40	1.38	2.66	3.50	1.30	0.86	0.50	0.24	0.26	
14	0.38	0.58	12.24	6.23	1.28	2.24	3.39	1.23	0.78	0.44	0.23	0.24	
15	0.41	0.62	7.25	3.67	1.02	1.88	3.36	1.82	0.70	0.38	0.21	0.23	
16	0.68	1.10	3.64	2.42	0.90	1.88	2.84	2.06	0.68	0.35	0.21	0.23	
17	2.27	1.38	2.60	1.73	0.98	2.24	2.24	2.21	0.62	0.34	0.31	0.23	
18	5.47	1.33	4.87	1.52	0.95	2.03	1.88	1.82	0.58	0.33	0.33	0.23	
19	3.01	5.23	16.50	4.11	0.82	1.82	2.12	1.58	0.56	0.31	0.28	0.22	
20	5.19	2.21	26.92	8.50	0.76	1.55	2.24	1.35	0.50	0.28	0.28	0.21	
21	11.17	1.20	10.74	1.25	0.74	1.64	2.45	1.20	0.49	0.27	0.26	0.21	
22	7.70	0.95	2.42	7.40	0.82	1.30	5.43	1.05	0.44	0.27	0.25	0.20	
23	3.53	1.55	2.90	5.87	1.15	1.46	4.99	0.95	0.44	0.27	0.24	0.18	
24	7.60	3.01	2.36	4.67	1.23	8.80	3.74	0.88	0.40	0.26	0.23	0.17	
25	18.00	5.47	2.09	3.39	2.27	16.90	4.79	0.84	0.41	0.25	0.22	0.16	
26	15.16	3.36	1.94	3.04	3.71	14.74	11.49	0.78	0.38	0.25	0.21	0.15	
27	3.95	6.35	1.82	2.84	2.66	7.60	18.30	0.76	0.35	0.25	0.21	0.15	
28	4.23	5.51	2.42	3.46	2.00	7.15	16.60	0.74	0.35	0.25	0.21	0.14	
29	2.00	2.78	3.81	3.91	1.58	12.87	13.78	0.70	0.38	0.25		0.14	
30	1.58	2.39	2.39	2.78	2.30	17.70	8.65	0.66	0.43	0.24		0.13	
31		2.24		2.03	7.80		5.11		0.43	0.23		0.13	
TOTAL	98.85	56.71	152.53	104.64	52.15	147.33	256.64	47.47	50.08	12.95	6.83	6.67	992.85 CMSDAY
MEAN	3.30	1.83	5.08	3.38	1.68	4.91	8.28	1.58	1.62	0.42	0.24	0.22	2.72 CMS
MAX	18.00	6.35	26.92	8.50	7.80	17.70	27.88	3.84	10.68	1.76	0.33	0.44	27.88 CMS
MIN	0.00	0.52	0.93	1.23	0.74	1.30	1.88	0.66	0.35	0.23	0.21	0.13	0.00 CMS
RUNOFF	8.541	4.900	13.179	9.041	4.506	12.729	22.174	4.101	4.327	1.119	0.590	0.576	85.782 MCM

MOMENTARY PEAK 30.40 CMS, AT 25.26 M (MSL), AT 18.00 HOURS, ON OCT 2, 1982

RUNOFF YIELD 5.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 56.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

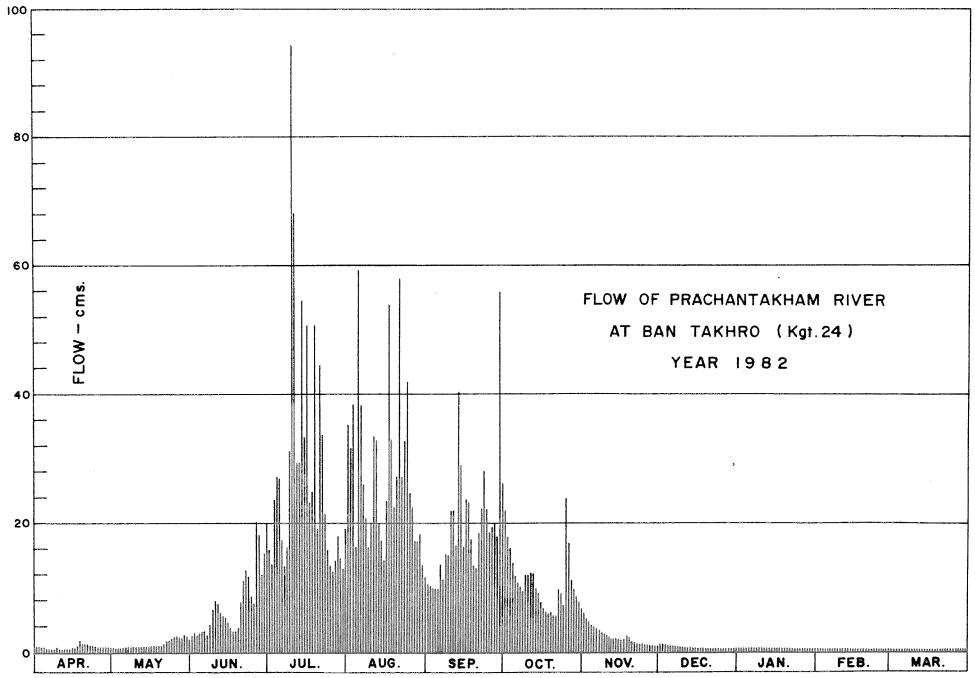
PRACHANTAKHAM RIVER AT BAN TAKHRO, PRACHIN BURI (KGT.24)

LOCATION	LAT. 14°-10'-34" N., LONG. 101°-35'-30" E., ON RIGHT BANK AT BAN TAKHRO, AMPHOE PRACHANTAKHAM, PRACHIN BURI.
DRAINAGE AREA	121 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE STATION OFFICE.
ELEVATION	+8.365 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971 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 PRACHANTAKHAM DAM. STAGE-DISCHARGE RELATION DEFINED BY 198 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.91	0.89	1.22	2.33	3.32	1.94	2.70	1.58	1.00	0.70	0.65	0.64	
2	0.91	0.88	1.26	2.17	3.18	1.91	2.47	1.51	0.96	0.70	0.65	0.63	
3	0.89	0.87	1.20	2.76	3.46	1.90	2.33	1.46	0.94	0.69	0.65	0.63	
4	0.86	0.86	1.26	2.96	2.35	1.81	2.18	1.39	0.90	0.69	0.64	0.63	
5	0.83	0.86	1.27	2.95	4.25	1.81	2.02	1.35	0.87	0.70	0.64	0.63	
6	0.81	0.88	1.29	2.40	3.46	2.15	1.95	1.32	0.86	0.70	0.64	0.63	
7	0.80	0.94	1.23	2.13	2.80	2.03	1.90	1.29	0.84	0.69	0.64	0.63	
8	0.78	0.93	1.41	2.37	2.54	2.26	1.84	1.26	0.84	0.69	0.65	0.63	
9	0.87	0.93	1.61	3.13	2.31	2.26	2.06	1.24	0.84	0.68	0.64	0.63	
10	0.82	0.93	1.71	5.42	2.58	2.67	2.04	1.20	0.83	0.68	0.64	0.63	
11	0.80	0.92	1.70	4.12	3.25	2.67	2.07	1.16	0.82	0.67	0.64	0.63	
12	0.80	0.92	1.57	2.65	3.21	2.36	2.06	1.13	0.81	0.67	0.64	0.64	
13	0.81	0.92	1.54	2.65	2.55	3.54	1.86	1.12	0.80	0.67	0.64	0.64	
14	0.82	0.94	1.52	4.08	2.31	2.68	1.82	1.14	0.79	0.67	0.64	0.64	
15	0.83	0.93	1.42	3.24	2.22	2.35	1.70	1.10	0.78	0.66	0.64	0.64	
16	0.91	0.96	1.35	3.93	2.85	2.78	1.64	1.08	0.77	0.66	0.64	0.64	
17	1.23	0.96	1.25	2.74	4.06	2.74	1.58	1.12	0.77	0.66	0.64	0.64	
18	1.08	0.95	1.26	2.86	2.97	2.33	1.55	1.18	0.76	0.66	0.64	0.64	
19	1.02	0.94	1.33	3.94	2.71	2.14	1.58	1.09	0.76	0.65	0.64	0.64	
20	1.02	0.94	1.74	2.52	3.01	2.10	1.53	1.05	0.74	0.65	0.64	0.64	
21	1.02	1.00	1.94	3.70	4.20	2.51	1.53	1.04	0.74	0.66	0.65	0.64	
22	0.98	1.08	2.08	3.07	2.96	2.74	1.86	1.01	0.74	0.65	0.66	0.65	
23	0.97	1.10	2.02	2.44	3.22	3.00	1.81	0.99	0.73	0.65	0.66	0.66	
24	0.95	1.11	1.81	2.30	3.59	2.64	1.67	0.96	0.73	0.65	0.64	0.66	
25	0.93	1.18	1.70	2.14	2.85	2.48	2.78	0.95	0.72	0.65	0.63	0.67	
26	0.91	1.21	2.58	2.08	2.75	2.53	2.34	0.94	0.72	0.65	0.62	0.67	
27	0.90	1.14	2.46	2.21	2.40	2.57	1.98	0.92	0.71	0.65	0.65	0.67	
28	0.90	1.14	2.06	2.42	2.41	2.44	1.85	0.89	0.71	0.65	0.64	0.67	
29	0.90	1.21	2.27	2.24	2.47	4.13	1.78	0.87	0.70	0.65		0.67	
30	0.89	1.18	2.55	2.14	2.17	2.95	1.74	0.89	0.70	0.65		0.67	
31		1.12		2.54	2.03		1.64		0.70	0.65		0.67	
MEAN	0.90	0.99	1.65	2.86	2.92	2.48	1.93	1.14	0.79	0.67	0.64	0.65	
MAX	1.23	1.21	2.58	5.42	4.25	4.13	2.78	1.58	1.00	0.70	0.66	0.67	5.42
MIN	0.78	0.86	1.20	2.08	2.03	1.81	1.53	0.87	0.70	0.65	0.62	0.63	0.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.85 M (A.D), AT 8.00 HOURS, ON SEP 29, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.16 M (A.D)
LEFT BANK ELEVATION 8.20 M (A.D)
RIGHT BANK ELEVATION 8.24 M (A.D), DRAINAGE AREA 121 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.57	2.56	15.95	34.96	10.35	22.10	5.88	1.00	0.10	0.05	0.04	
2	0.64	0.53	2.88	13.55	31.76	9.97	18.12	5.11	0.84	0.10	0.05	0.03	
3	0.57	0.50	2.40	23.24	38.18	9.85	15.95	4.60	0.76	0.09	0.05	0.03	
4	0.46	0.46	2.88	27.10	16.25	8.72	13.70	3.92	0.60	0.09	0.04	0.03	
5	0.35	0.46	2.96	26.90	59.00	8.72	11.38	3.60	0.50	0.10	0.04	0.03	
6	0.29	0.53	3.12	17.00	38.18	13.25	10.48	3.36	0.46	0.10	0.04	0.03	
7	0.25	0.76	2.64	12.95	24.00	11.52	9.85	3.12	0.39	0.09	0.04	0.03	
8	0.22	0.72	4.10	16.55	19.28	14.90	9.10	2.88	0.39	0.09	0.05	0.03	
9	0.50	0.72	6.23	30.66	15.65	14.90	11.94	2.72	0.39	0.08	0.04	0.03	
10	0.32	0.72	7.48	94.02	19.96	21.56	11.66	2.40	0.35	0.08	0.04	0.03	
11	0.25	0.68	7.35	55.36	33.35	21.56	12.08	2.12	0.32	0.07	0.04	0.03	
12	0.25	0.68	5.77	21.20	32.43	16.40	11.94	1.91	0.29	0.07	0.04	0.04	
13	0.29	0.68	5.44	21.20	19.45	40.10	9.35	1.84	0.25	0.07	0.04	0.04	
14	0.32	0.76	5.22	54.26	15.65	21.74	8.85	1.98	0.24	0.07	0.04	0.04	
15	0.35	0.72	4.20	33.12	14.30	16.25	7.35	1.70	0.22	0.06	0.04	0.04	
16	0.64	0.84	3.60	50.21	24.95	23.62	6.60	1.56	0.20	0.06	0.04	0.04	
17	2.64	0.84	2.80	22.86	53.72	22.86	5.88	1.84	0.20	0.06	0.04	0.04	
18	1.56	0.80	2.88	25.14	27.30	15.95	5.55	2.26	0.19	0.06	0.04	0.04	
19	1.14	0.76	3.44	50.48	22.29	13.10	5.88	1.63	0.19	0.05	0.04	0.04	
20	1.14	0.76	7.85	18.94	28.11	12.50	5.33	1.35	0.16	0.05	0.04	0.04	
21	1.14	1.00	10.35	44.10	57.60	18.77	5.33	1.28	0.16	0.06	0.05	0.04	
22	0.92	1.56	12.22	29.37	27.10	22.86	9.35	1.07	0.16	0.05	0.06	0.05	
23	0.88	1.70	11.38	17.64	32.66	27.90	8.72	0.96	0.15	0.05	0.06	0.06	
24	0.80	1.77	8.72	15.50	41.35	21.02	6.97	0.84	0.15	0.05	0.04	0.06	
25	0.72	2.26	7.35	13.10	24.95	18.28	23.62	0.80	0.13	0.05	0.03	0.07	
26	0.64	2.48	19.96	12.22	23.05	19.11	16.10	0.76	0.13	0.05	0.02	0.07	
27	0.60	1.98	17.96	14.15	17.00	19.79	10.85	0.68	0.11	0.05	0.05	0.07	
28	0.60	1.98	11.94	17.32	17.16	17.64	9.23	0.57	0.11	0.05	0.04	0.07	
29	0.60	2.48	15.05	14.60	18.12	55.64	8.35	0.50	0.10	0.05		0.07	
30	0.57	2.26	19.45	13.10	13.55	26.90	7.85	0.57	0.10	0.05		0.07	
31		1.84		19.28	11.52		6.60		0.10	0.05		0.07	
TOTAL	20.29	34.80	220.18	841.07	852.83	575.73	326.06	63.81	9.34	2.10	1.19	1.40	2948.80 CMSDAY
MEAN	0.68	1.12	7.34	27.13	27.51	19.19	10.52	2.13	0.30	0.07	0.04	0.05	8.08 CMS
MAX	2.64	2.48	19.96	94.02	59.00	55.64	23.62	5.88	1.00	0.10	0.06	0.07	94.02 CMS
MIN	0.22	0.46	2.40	12.22	11.52	8.72	5.33	0.50	0.10	0.05	0.02	0.03	0.02 CMS
RUNOFF	1.753	3.007	19.024	72.668	73.685	49.743	28.172	5.513	0.807	0.181	0.103	0.121	254.776 MCM

MOMENTARY PEAK 107.70 CMS, AT 5.85 M (A.D), AT 8.00 HOURS, ON SEP 29, 1982

RUNOFF YIELD 66.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 890.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

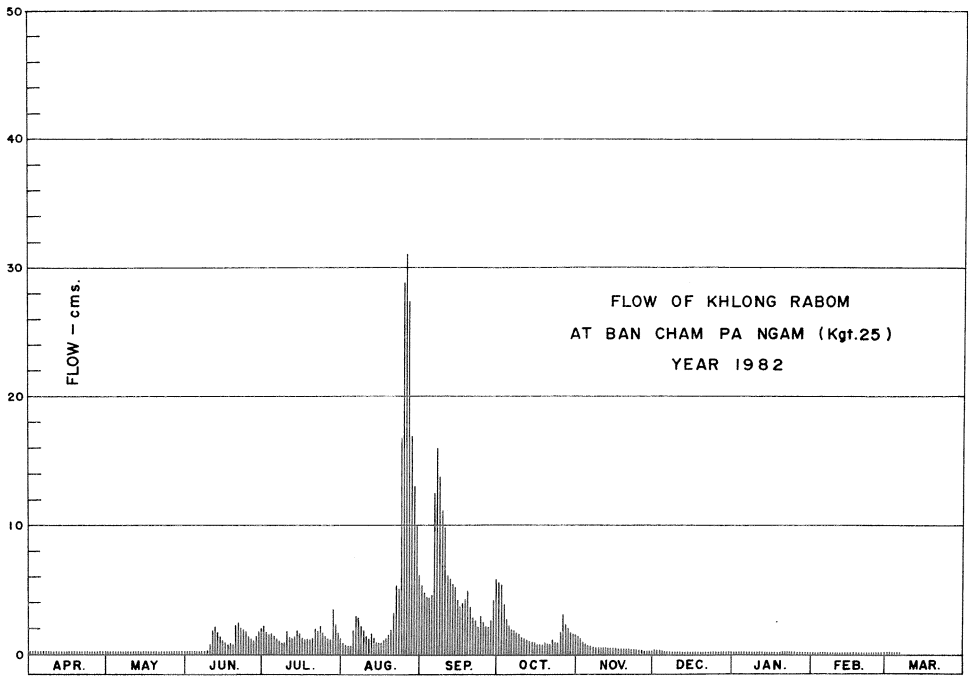
KHLONG RABOM AT BAN CHAM PA NGAM, CHACHOENGSAO (KGT.25)

LOCATION	LAT. 13°-41'-09" N., LONG. 101°-36'-32" E., ON LEFT BANK AT BAN CHAM PA NGAM, AMPHOE SANAM CHAI KHET, CHACHOENGSAO
DRAINAGE AREA	243 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ON LEFT BANK NEAR THE GAGE SITE, B.M.2 INFRONT OF THE OBSERVER'S HOUSE.
ELEVATION	B.M.1=+4.877 M. (A.D.), B.M.2=+8.490 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 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 30 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.37	0.37	0.50	1.32	0.88	2.16	2.19	1.10	0.57	0.43	0.37	0.32	
2	0.38	0.37	0.40	1.21	0.80	1.90	2.13	1.03	0.60	0.42	0.37	0.32	
3	0.38	0.37	0.41	1.15	0.77	1.83	1.74	0.92	0.57	0.41	0.37	0.32	
4	0.38	0.37	0.40	1.16	0.77	1.82	1.46	0.86	0.56	0.40	0.37	0.32	
5	0.38	0.37	0.40	1.10	1.29	1.89	1.32	0.85	0.53	0.40	0.37	0.32	
6	0.38	0.37	0.42	1.02	1.52	2.95	1.22	0.82	0.50	0.40	0.38	0.32	
7	0.38	0.36	0.42	0.94	1.53	3.47	1.23	0.78	0.50	0.40	0.37	0.31	
8	0.38	0.36	0.49	0.88	1.32	3.26	1.17	0.75	0.50	0.39	0.36	0.31	
9	0.38	0.36	0.49	0.88	1.25	2.97	1.15	0.72	0.49	0.39	0.35	0.31	
10	0.38	0.36	0.49	1.18	1.11	2.73	1.03	0.71	0.48	0.40	0.35	0.31	
11	0.37	0.35	1.20	1.06	0.96	2.48	1.00	0.75	0.48	0.39	0.35	0.31	
12	0.37	0.34	1.30	1.03	1.12	2.38	0.97	0.74	0.48	0.38	0.33	0.31	
13	0.37	0.35	1.17	1.06	1.06	2.16	0.94	0.70	0.48	0.38	0.33	0.31	
14	0.38	0.37	1.09	1.19	0.94	1.98	0.91	0.69	0.48	0.38	0.33	0.30	
15	0.39	0.36	1.00	1.16	0.88	1.75	0.91	0.70	0.46	0.38	0.33	0.30	
16	0.39	0.36	0.92	1.11	0.86	1.69	0.84	0.70	0.46	0.38	0.33	0.30	
17	0.40	0.36	0.82	1.00	0.92	1.73	0.84	0.71	0.45	0.38	0.33	0.30	
18	0.40	0.36	0.90	1.02	1.05	1.78	0.81	0.68	0.44	0.37	0.33	0.30	
19	0.40	0.37	0.79	0.99	1.10	1.93	0.90	0.67	0.44	0.37	0.33	0.30	
20	0.40	0.37	1.31	1.00	1.28	1.64	0.86	0.64	0.44	0.37	0.33	0.30	
21	0.40	0.37	1.41	1.25	1.59	1.48	0.84	0.64	0.43	0.38	0.35	0.29	
22	0.40	0.38	1.30	1.22	2.09	1.45	0.97	0.59	0.43	0.38	0.33	0.29	
23	0.40	0.38	1.25	1.31	1.98	1.28	0.91	0.58	0.43	0.37	0.33	0.29	
24	0.40	0.39	1.23	1.15	3.47	1.53	0.87	0.57	0.42	0.36	0.33	0.29	
25	0.40	0.40	1.07	1.05	4.69	1.44	1.16	0.57	0.42	0.36	0.32	0.28	
26	0.40	0.40	1.01	1.01	4.94	1.29	1.54	0.56	0.42	0.35	0.32	0.28	
27	0.40	0.40	0.96	0.97	4.40	1.30	1.35	0.55	0.42	0.35	0.32	0.28	
28	0.40	0.41	1.09	1.62	3.65	1.46	1.24	0.54	0.42	0.35	0.32	0.28	
29	0.40	0.41	1.19	1.35	3.13	1.78	1.18	0.52	0.42	0.35		0.28	
30	0.40	0.40	1.27	1.24	2.87	2.28	1.13	0.50	0.42	0.35		0.28	
31		0.40		1.00	2.55		1.12		0.42	0.35		0.28	
MEAN	0.39	0.37	0.89	1.12	1.83	1.99	1.16	0.70	0.47	0.38	0.34	0.30	
MAX	0.40	0.41	1.41	1.62	4.94	3.47	2.19	1.10	0.60	0.43	0.38	0.32	4.94
MIN	0.37	0.34	0.40	0.88	0.77	1.28	0.81	0.50	0.42	0.35	0.32	0.28	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.98 M (A.D), AT 6.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.10 M (A.D)
LEFT BANK ELEVATION 5.35 M (A.D)
RIGHT BANK ELEVATION 7.06 M (A.D), DRAINAGE AREA 243 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.04	0.14	2.12	0.79	6.03	6.20	1.40	0.25	0.08	0.04	0.01	
2	0.04	0.04	0.05	1.74	0.62	4.65	5.87	1.19	0.29	0.07	0.04	0.01	
3	0.04	0.04	0.06	1.55	0.57	4.30	3.88	0.88	0.25	0.06	0.04	0.01	
4	0.04	0.04	0.05	1.58	0.57	4.25	2.64	0.75	0.23	0.05	0.04	0.01	
5	0.04	0.04	0.05	1.40	2.01	4.60	2.12	0.73	0.18	0.05	0.04	0.01	
6	0.04	0.04	0.07	1.16	2.89	11.40	1.77	0.66	0.14	0.05	0.04	0.01	
7	0.04	0.03	0.07	0.94	2.94	15.88	1.80	0.58	0.14	0.05	0.04	0.00	
8	0.04	0.03	0.13	0.79	2.12	14.01	1.61	0.53	0.14	0.04	0.03	0.00	
9	0.04	0.03	0.13	0.79	1.88	11.56	1.55	0.48	0.13	0.04	0.02	0.00	
10	0.04	0.03	0.13	1.64	1.43	9.72	1.19	0.46	0.12	0.05	0.02	0.00	
11	0.04	0.02	1.70	1.28	0.99	7.97	1.10	0.53	0.12	0.04	0.02	0.00	
12	0.04	0.02	2.05	1.19	1.46	7.33	1.02	0.51	0.12	0.04	0.02	0.00	
13	0.04	0.02	1.61	1.28	1.28	6.03	0.94	0.44	0.12	0.04	0.02	0.00	
14	0.04	0.04	1.37	1.67	0.94	5.05	0.86	0.43	0.12	0.04	0.02	0.00	
15	0.04	0.03	1.10	1.58	0.79	3.93	0.86	0.44	0.10	0.04	0.02	0.00	
16	0.04	0.03	0.88	1.43	0.75	3.66	0.70	0.44	0.10	0.04	0.02	0.00	
17	0.05	0.03	0.66	1.10	0.88	3.84	0.70	0.46	0.09	0.04	0.02	0.00	
18	0.05	0.03	0.83	1.16	1.25	4.06	0.64	0.41	0.09	0.04	0.02	0.00	
19	0.05	0.04	0.60	1.07	1.40	4.80	0.83	0.40	0.09	0.04	0.02	0.00	
20	0.05	0.04	2.08	1.10	1.98	3.43	0.75	0.35	0.09	0.04	0.02	0.00	
21	0.05	0.04	2.44	1.88	3.21	2.72	0.70	0.35	0.08	0.04	0.02	0.00	
22	0.05	0.04	2.05	1.77	5.64	2.60	1.02	0.27	0.08	0.04	0.02	0.00	
23	0.05	0.04	1.88	2.08	5.05	1.98	0.86	0.26	0.08	0.04	0.02	0.00	
24	0.05	0.04	1.80	1.55	15.88	2.94	0.77	0.25	0.07	0.03	0.02	0.00	
25	0.05	0.05	1.31	1.25	28.39	2.56	1.58	0.25	0.07	0.03	0.01	0.00	
26	0.05	0.05	1.13	1.13	31.14	2.01	2.98	0.23	0.07	0.02	0.01	0.00	
27	0.05	0.05	0.99	1.02	25.20	2.05	2.23	0.22	0.07	0.02	0.01	0.00	
28	0.05	0.06	1.37	3.34	17.57	2.64	1.84	0.20	0.07	0.02	0.01	0.00	
29	0.05	0.06	1.67	2.23	12.91	4.06	1.64	0.17	0.07	0.02		0.00	
30	0.05	0.05	1.94	1.84	10.77	6.73	1.49	0.14	0.07	0.02		0.00	
31		0.05		1.10	8.45		1.46		0.07	0.02		0.00	
TOTAL	1.34	1.19	30.34	45.76	191.75	166.79	53.60	14.41	3.71	1.24	0.67	0.06	510.86 CMSDAY
MEAN	0.04	0.04	1.01	1.48	6.19	5.56	1.73	0.48	0.12	0.04	0.02	0.00	1.40 CMS
MAX	0.05	0.06	2.44	3.34	31.14	15.88	6.20	1.40	0.29	0.08	0.04	0.01	31.14 CMS
MIN	0.04	0.02	0.05	0.79	0.57	1.98	0.64	0.14	0.07	0.02	0.01	0.00	0.00 CMS
RUNOFF	0.116	0.103	2.621	3.954	16.567	14.411	4.631	1.245	0.321	0.107	0.058	0.005	44.138 MCM

MOMENTARY PEAK 31.58 CMS, AT 4.98 M (A.D), AT 6.00 HOURS, ON AUG 26, 1982

RUNOFF YIELD 5.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 129.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

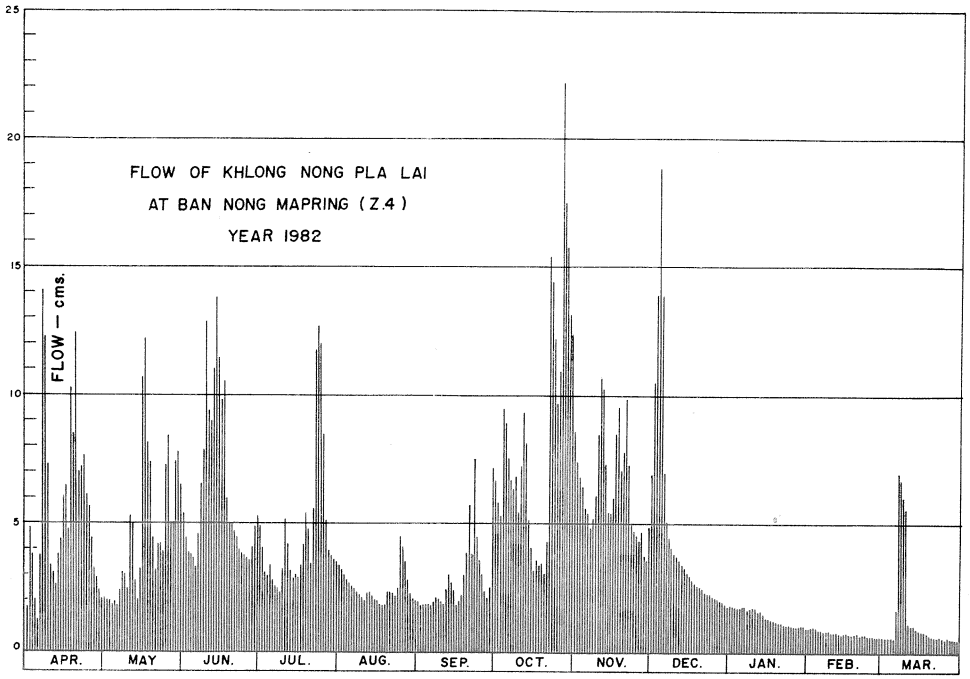
KHLONG NONG PLA LAI AT BAN NONG MAPRING, RAYONG (Z.4)

LOCATION	LAT. 12°-54'-40" N., LONG. 101°-17'-37" E., ON RIGHT BANK AT BAN NONG MAPRING, AMPHOE PLUAK DAENG, RAYONG.
DRAINAGE AREA	429 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+5.270 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1974
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION 3.21 M.(A.D.), RECORDS ARE CANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 322 DISCHARGE MEASUREMENTS MADE DURING 1972-1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.70	1.50	1.34	1.02	0.66	1.70	1.97	1.80	0.63	0.38	0.27	
2	1.34	0.70	1.26	1.25	1.98	0.62	1.50	1.80	2.40	0.62	0.41	0.26	
3	1.12	0.68	1.12	0.96	1.94	0.63	1.40	1.68	2.80	0.61	0.40	0.26	
4	0.53	0.64	1.11	0.92	1.88	0.64	2.16	1.62	3.12	0.60	0.36	0.26	
5	0.46	0.68	1.09	1.03	1.85	0.65	2.07	1.48	2.81	0.59	0.36	0.26	
6	1.44	0.64	1.02	0.88	1.83	0.64	1.83	1.42	1.72	0.63	0.35	0.67	
7	2.74	0.85	1.31	0.83	1.80	0.68	1.62	1.30	1.34	0.61	0.34	1.73	
8	2.50	0.96	1.74	0.82	1.75	0.70	1.61	1.41	1.22	0.60	0.33	1.63	
9	1.32	0.94	1.98	0.78	1.74	0.70	1.71	1.66	1.14	0.60	0.33	1.51	
10	1.02	0.82	2.62	1.14	1.71	0.67	1.42	2.20	1.12	0.62	0.32	1.45	
11	0.95	1.42	2.12	1.39	0.69	0.66	1.94	2.34	1.07	0.58	0.32	0.42	
12	0.83	1.36	1.91	1.18	0.76	0.84	2.14	2.26	1.04	0.55	0.31	0.38	
13	1.20	1.83	2.45	0.99	0.76	0.95	1.56	1.71	1.02	0.53	0.31	0.40	
14	1.24	1.70	2.72	0.92	0.71	0.85	1.26	1.43	1.00	0.51	0.30	0.36	
15	1.59	1.13	2.43	0.94	0.69	0.72	1.16	1.44	0.93	0.50	0.29	0.33	
16	1.64	2.39	2.21	0.90	0.67	0.64	1.00	1.56	0.90	0.49	0.31	0.32	
17	1.31	2.55	2.32	1.03	0.64	0.69	1.08	2.03	0.87	0.47	0.29	0.31	
18	2.30	1.94	1.51	1.25	0.65	0.77	1.03	2.17	0.85	0.47	0.30	0.30	
19	2.00	1.83	1.36	1.44	0.67	1.04	1.04	1.74	0.82	0.46	0.30	0.26	
20	2.58	1.19	1.35	1.31	0.78	1.17	0.95	1.94	0.81	0.45	0.29	0.25	
21	1.74	0.99	1.29	1.04	0.78	1.50	1.28	2.21	0.78	0.44	0.28	0.26	
22	1.77	1.20	1.22	1.86	0.76	1.11	2.86	1.75	0.76	0.43	0.31	0.26	
23	1.85	1.20	1.15	2.52	0.74	1.82	2.78	1.37	0.75	0.42	0.29	0.26	
24	1.60	1.64	1.11	2.60	0.82	1.25	2.62	1.28	0.74	0.41	0.28	0.27	
25	1.50	1.95	1.16	2.51	1.25	1.04	2.19	1.24	0.73	0.39	0.28	0.26	
26	1.22	2.00	1.08	1.71	1.16	0.92	2.42	1.22	0.71	0.39	0.27	0.25	
27	0.99	1.35	1.07	1.22	1.03	0.75	3.34	1.28	0.69	0.39	0.27	0.25	
28	0.94	1.35	1.18	1.15	1.87	0.71	3.03	1.10	0.67	0.39	0.27	0.24	
29	0.80	1.86	1.37	1.11	1.73	0.84	2.80	1.07	0.66	0.39		0.24	
30	0.72	1.90	1.43	1.08	1.69	1.76	2.67	1.40	0.63	0.38		0.23	
31		1.72		1.06	1.68		2.53		0.62	0.38		0.22	
MEAN	1.39	1.36	1.57	1.26	1.23	0.89	1.89	1.64	1.18	0.50	0.32	0.46	
MAX	2.74	2.55	2.72	2.60	1.98	1.82	3.34	2.34	3.12	0.63	0.41	1.73	3.34
MIN	0.46	0.64	1.02	0.78	0.64	0.62	0.95	1.07	0.62	0.38	0.27	0.22	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.41 M (A.D), AT 6.00 HOURS, ON OCT 27, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.15 M (A.D)
LEFT BANK ELEVATION 3.20 M (A.D)
RIGHT BANK ELEVATION 5.29 M (A.D), DRAINAGE AREA 429 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.48	2.00	5.70	4.90	3.30	1.86	6.80	8.28	7.35	1.76	0.89	0.58	
2	4.90	2.00	4.50	4.45	8.34	1.72	5.70	7.35	11.05	1.72	0.98	0.55	
3	3.80	1.93	3.80	3.04	8.12	1.76	5.20	6.69	14.70	1.69	0.95	0.55	
4	1.40	1.79	3.75	2.88	7.79	1.79	9.44	6.36	18.78	1.65	0.83	0.55	
5	1.16	1.93	3.65	3.35	7.63	1.83	8.87	5.60	14.82	1.62	0.83	0.55	
6	5.40	1.79	3.30	2.72	7.52	1.79	7.52	5.30	6.91	1.76	0.80	1.90	
7	14.04	2.60	4.75	2.52	7.35	1.93	6.36	4.70	4.90	1.69	0.77	6.97	
8	11.80	3.04	7.02	2.48	7.07	2.00	6.30	5.25	4.30	1.65	0.74	6.42	
9	4.80	2.96	8.34	2.32	7.02	2.00	6.86	6.58	3.90	1.65	0.74	5.75	
10	3.30	2.48	12.80	3.90	6.86	1.90	5.30	9.70	3.80	1.72	0.71	5.45	
11	3.00	5.30	9.18	5.15	1.97	1.86	8.12	10.63	3.55	1.58	0.71	1.02	
12	2.52	5.00	7.96	4.10	2.24	2.56	9.31	10.09	3.40	1.48	0.68	0.89	
13	4.20	7.52	11.43	3.16	2.24	3.00	6.03	6.86	3.30	1.40	0.68	0.95	
14	4.40	6.80	13.82	2.88	2.04	2.60	4.50	5.35	3.20	1.34	0.65	0.83	
15	6.20	3.85	11.28	2.96	1.97	2.08	4.00	5.40	2.92	1.30	0.62	0.74	
16	6.47	10.98	9.77	2.80	1.90	1.79	3.20	6.03	2.80	1.27	0.68	0.71	
17	4.75	12.20	10.49	3.35	1.79	1.97	3.60	8.63	2.68	1.20	0.62	0.68	
18	10.35	8.12	5.75	4.45	1.83	2.28	3.35	9.51	2.60	1.20	0.65	0.65	
19	8.45	7.52	5.00	5.40	1.90	3.40	3.40	7.02	2.48	1.16	0.65	0.55	
20	12.44	4.15	4.95	4.75	2.32	4.05	3.00	8.12	2.44	1.13	0.62	0.52	
21	7.02	3.16	4.65	3.40	2.32	5.70	4.60	9.77	2.32	1.09	0.60	0.55	
22	7.19	4.20	4.30	7.68	2.24	3.75	15.42	7.07	2.24	1.06	0.68	0.55	
23	7.63	4.20	3.95	11.96	2.16	7.46	14.48	5.05	2.20	1.02	0.62	0.55	
24	6.25	6.47	3.75	12.60	2.48	4.45	12.80	4.60	2.16	0.98	0.60	0.58	
25	5.70	8.18	4.00	11.88	4.45	3.40	9.64	4.40	2.12	0.92	0.60	0.55	
26	4.30	8.45	3.60	6.86	4.00	2.88	11.20	4.30	2.04	0.92	0.58	0.52	
27	3.16	4.95	3.55	4.30	3.35	2.20	22.04	4.60	1.97	0.92	0.58	0.52	
28	2.96	4.95	4.10	3.95	7.74	2.04	17.59	3.70	1.90	0.92	0.58	0.50	
29	2.40	7.68	5.05	3.75	6.97	2.56	14.70	3.55	1.86	0.92		0.50	
30	2.08	7.90	5.35	3.60	6.75	7.13	13.30	5.20	1.76	0.89		0.48	
31		6.91		3.50	6.69		12.04		1.72	0.89		0.45	
TOTAL	163.55	161.01	189.54	145.04	140.35	85.74	264.67	195.69	142.17	40.50	19.64	42.56	1590.46 CMSDAY
MEAN	5.45	5.19	6.32	4.68	4.53	2.86	8.54	6.52	4.59	1.31	0.70	1.37	4.36 CMS
MAX	14.04	12.20	13.82	12.60	8.34	7.46	22.04	10.63	18.78	1.76	0.98	6.97	22.04 CMS
MIN	1.16	1.79	3.30	2.32	1.79	1.72	3.00	3.55	1.72	0.89	0.58	0.45	0.45 CMS
RUNOFF	14.131	13.911	16.376	12.531	12.126	7.408	22.867	16.908	12.283	3.499	1.697	3.677	137.416 MCM

MOMENTARY PEAK 23.17 CMS, AT 3.41 M (A.D), AT 6.00 HOURS, ON OCT 27, 1982

RUNOFF YIELD 10.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 54.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

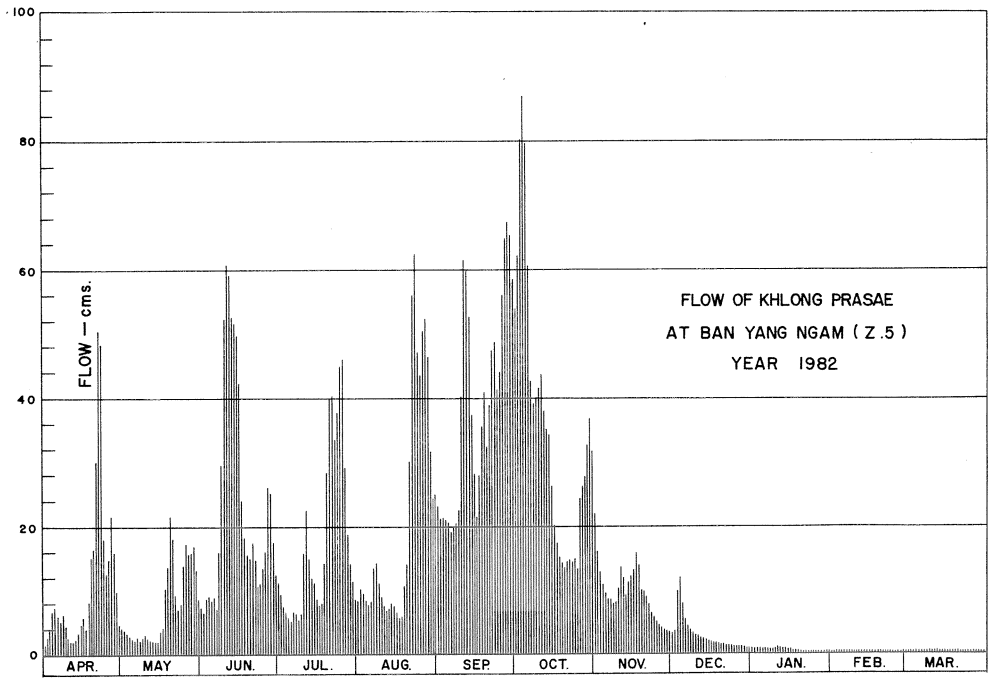
KHLONG PRASAE AT BAN YANG NGAM, RAYONG (Z.5)

LOCATION	LAT. 12°-53'-03" N., LONG. 101°-35'-58" E., ON LEFT BANK AT BAN YANG NGAM, AMPHOE KLAENG, RAYONG.
DRAINAGE AREA	1,164 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+7.385 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 - 1982.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1982.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.72 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.99	1.42	1.83	2.25	1.97	3.24	5.04	3.22	1.35	0.94	0.78	0.70	
2	1.23	1.39	1.74	2.03	2.15	3.12	5.35	2.71	1.41	0.92	0.77	0.70	
3	1.53	1.33	2.00	1.86	2.08	3.15	5.90	2.44	2.12	0.92	0.77	0.70	
4	1.77	1.26	2.02	1.75	1.96	3.11	6.11	2.26	2.30	0.91	0.77	0.69	
5	1.83	1.19	1.94	1.67	1.90	3.07	5.89	2.12	1.96	0.91	0.77	0.69	
6	1.63	1.15	2.02	1.60	1.94	2.97	5.32	2.01	1.68	0.91	0.76	0.69	
7	1.58	1.20	1.82	1.77	2.47	3.02	4.45	2.01	1.53	0.91	0.75	0.71	
8	1.72	1.16	2.74	1.74	2.52	3.08	4.26	1.93	1.43	0.91	0.75	0.75	
9	1.47	1.20	3.97	1.62	2.22	3.23	4.31	1.94	1.36	0.90	0.75	0.76	
10	1.22	1.26	4.74	1.76	2.07	4.74	4.39	2.20	1.32	0.91	0.75	0.76	
11	1.10	1.19	5.22	2.83	1.91	5.25	4.47	2.48	1.27	0.99	0.74	0.78	
12	1.09	1.13	5.16	3.23	1.81	5.18	4.20	2.36	1.24	0.99	0.74	0.76	
13	1.15	1.10	4.89	2.67	1.84	4.84	4.05	2.07	1.21	0.94	0.73	0.75	
14	1.28	1.06	4.86	2.34	1.91	4.29	3.99	2.28	1.18	0.93	0.73	0.74	
15	1.44	1.08	4.75	2.14	1.87	3.55	3.51	2.37	1.15	0.90	0.73	0.73	
16	1.64	1.35	4.34	2.00	1.75	3.16	3.10	2.46	1.13	0.88	0.73	0.71	
17	1.42	1.69	3.34	1.89	1.66	3.56	2.86	2.67	1.11	0.86	0.73	0.71	
18	1.85	2.14	2.87	1.93	1.66	4.10	2.65	2.53	1.09	0.86	0.74	0.71	
19	2.60	2.52	2.63	2.67	2.25	4.36	2.59	2.15	1.07	0.85	0.74	0.70	
20	2.73	3.15	2.60	3.68	2.79	3.89	2.48	2.13	1.05	0.84	0.75	0.70	
21	3.71	2.82	2.81	4.29	3.83	4.26	2.57	2.07	1.04	0.83	0.75	0.69	
22	4.79	2.05	2.58	4.31	4.95	4.66	2.59	1.90	1.02	0.83	0.75	0.69	
23	4.19	1.81	2.20	3.96	5.28	4.71	2.58	1.79	1.02	0.82	0.74	0.69	
24	2.91	1.89	2.23	4.23	4.70	4.38	2.60	1.68	1.01	0.81	0.73	0.68	
25	2.38	2.48	2.59	4.55	4.48	4.59	2.48	1.60	0.99	0.81	0.72	0.69	
26	2.63	2.78	2.89	4.59	4.80	5.02	3.36	1.53	0.99	0.80	0.72	0.69	
27	3.15	2.65	3.47	3.72	4.88	5.37	3.49	1.48	0.98	0.79	0.71	0.69	
28	2.71	2.67	3.40	2.96	4.63	5.47	3.61	1.44	0.97	0.79	0.70	0.69	
29	2.11	2.74	2.82	2.58	3.89	5.38	3.99	1.41	0.95	0.79		0.68	
30	1.54	2.36	2.39	2.30	3.36	5.12	4.14	1.38	0.95	0.79		0.67	
31		2.03		1.98	3.40		3.91		0.94	0.79		0.67	
MEAN	2.05	1.78	3.10	2.67	2.87	4.13	3.88	2.09	1.25	0.87	0.74	0.71	
MAX	4.79	3.15	5.22	4.59	5.28	5.47	6.11	3.22	2.30	0.99	0.78	0.78	6.11
MIN	0.99	1.06	1.74	1.60	1.66	2.97	2.48	1.38	0.94	0.79	0.70	0.67	0.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.12 M (A.D), AT 9.00 HOURS, ON OCT 4, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.69 M (A.D)
LEFT BANK ELEVATION 7.34 M (A.D)
RIGHT BANK ELEVATION 4.72 M (A.D), DRAINAGE AREA 1164 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.35	4.04	7.27	11.30	8.53	22.76	56.16	22.48	3.55	1.10	0.44	0.20	
2	2.78	3.83	6.52	9.10	10.30	21.16	64.15	16.29	3.97	1.00	0.41	0.20	
3	4.84	3.41	8.80	7.54	9.60	21.55	79.90	13.25	10.00	1.00	0.41	0.20	
4	6.76	2.96	9.00	6.60	8.44	21.03	86.63	11.40	11.80	0.95	0.41	0.18	
5	7.27	2.54	8.26	5.96	7.90	20.54	79.59	10.00	8.44	0.95	0.41	0.18	
6	5.64	2.30	9.00	5.40	8.26	19.34	63.34	8.90	6.04	0.95	0.38	0.18	
7	5.24	2.60	7.18	6.76	13.59	19.94	42.85	8.90	4.84	0.95	0.35	0.23	
8	6.36	2.36	16.62	6.52	14.15	20.66	39.19	8.17	4.11	0.95	0.35	0.35	
9	4.39	2.60	33.99	5.56	11.00	22.62	40.12	8.26	3.62	0.90	0.35	0.38	
10	2.72	2.96	49.08	6.68	9.50	49.08	41.61	10.80	3.34	0.95	0.35	0.38	
11	2.00	2.54	60.64	17.66	7.99	61.45	43.27	13.70	3.02	1.35	0.32	0.44	
12	1.94	2.18	59.10	22.62	7.09	59.60	38.07	12.40	2.84	1.35	0.32	0.38	
13	2.30	2.00	52.56	15.84	7.36	51.36	35.35	9.50	2.66	1.10	0.29	0.35	
14	3.08	1.76	51.84	12.20	7.99	39.75	34.33	11.60	2.48	1.05	0.29	0.32	
15	4.18	1.88	49.30	10.20	7.63	27.25	26.65	12.50	2.30	0.90	0.29	0.29	
16	5.72	3.55	40.68	8.80	6.60	21.68	20.90	13.47	2.18	0.82	0.29	0.23	
17	4.04	6.12	24.16	7.81	5.88	27.40	18.02	15.84	2.06	0.74	0.29	0.23	
18	7.45	10.20	18.14	8.17	5.88	36.20	15.61	14.26	1.94	0.74	0.32	0.23	
19	15.05	14.15	15.39	15.84	11.30	41.05	14.94	10.30	1.82	0.70	0.32	0.20	
20	16.51	21.55	15.05	29.20	17.19	32.63	13.70	10.10	1.70	0.66	0.35	0.20	
21	29.66	17.54	17.42	39.75	31.61	39.19	14.71	9.50	1.64	0.62	0.35	0.18	
22	50.18	9.30	14.82	40.12	54.00	47.32	14.94	7.90	1.52	0.62	0.35	0.18	
23	37.88	7.09	10.80	33.82	62.26	48.42	14.82	6.92	1.52	0.58	0.32	0.18	
24	18.62	7.81	11.10	38.63	48.20	41.43	15.05	6.04	1.46	0.54	0.29	0.16	
25	12.60	13.70	14.94	44.95	43.48	45.79	13.70	5.40	1.35	0.54	0.26	0.18	
26	15.39	17.07	18.38	45.79	50.40	55.68	24.44	4.84	1.35	0.50	0.26	0.18	
27	21.55	15.61	26.05	29.82	52.32	64.69	26.35	4.46	1.30	0.47	0.23	0.18	
28	16.29	15.84	25.00	19.22	46.66	67.39	28.15	4.18	1.25	0.47	0.20	0.18	
29	9.90	16.62	17.54	14.82	32.63	64.96	34.33	3.97	1.15	0.47		0.16	
30	4.92	12.40	12.70	11.80	24.44	58.10	36.95	3.76	1.15	0.47		0.14	
31		9.10		8.62	25.00		32.97		1.10	0.47		0.14	
TOTAL	326.61	237.61	711.33	547.10	657.18	1170.02	1110.79	299.09	97.50	24.86	9.20	7.21	5198.50 CMSDAY
MEAN	10.89	7.66	23.71	17.65	21.20	39.00	35.83	9.97	3.15	0.80	0.33	0.23	14.24 CMS
MAX	50.18	21.55	60.64	45.79	62.26	67.39	86.63	22.48	11.80	1.35	0.44	0.44	86.63 CMS
MIN	1.35	1.76	6.52	5.40	5.88	19.34	13.70	3.76	1.10	0.47	0.20	0.14	0.14 CMS
RUNOFF	28.219	20.530	61.459	47.269	56.780	101.090	95.972	25.841	8.424	2.148	0.795	0.623	449.150 MCM

MOMENTARY PEAK 86.96 CMS, AT 6.12 M (A.D), AT 9.00 HOURS, ON OCT 4, 1982

RUNOFF YIELD 12.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.71 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

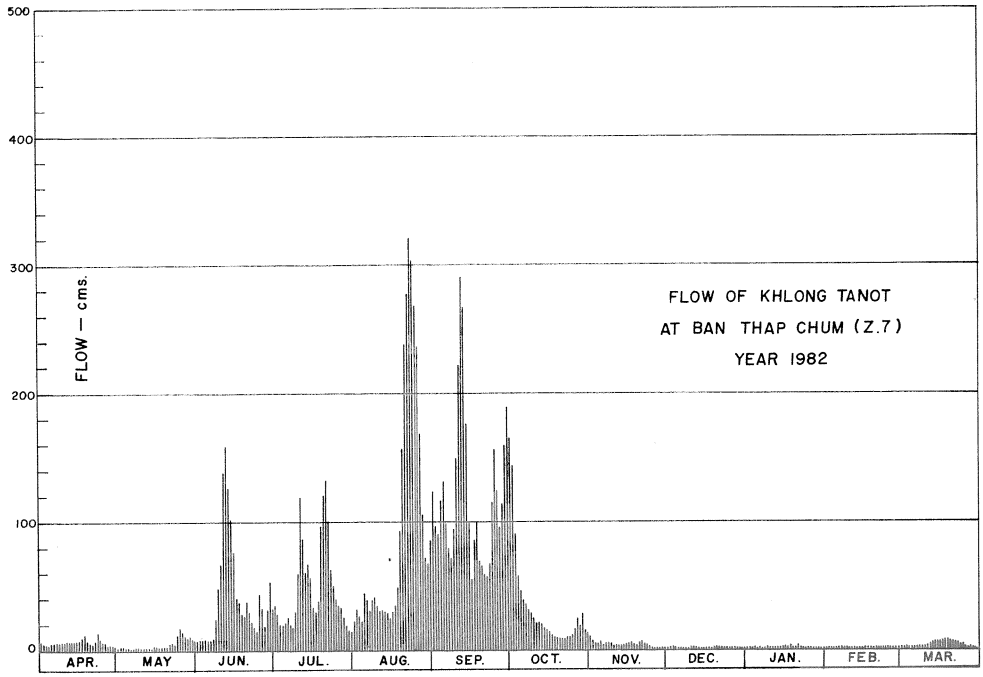
KHLONG TA NOT AT BAN THAP CHUM, CHANTHABURI (Z.7)

LOCATION	LAT. 12°-47'-56" N., LONG. 101°-54'-32" E., ON RIGHT BANK ABOUT 9 KILOMETERS FROM THE ENTRANCE OF NIKHOM DONG THAP, BAN THAP CHUM, AMPHOE THA MAI, CHANTHABURI.
DRAINAGE AREA	1,318 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+2.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE MEASURING LINE.
ELEVATION	+11.624 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1974
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +9.20 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 819 DISCHARGE MEASUREMENTS MADE DURING 1965-1970.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.64	3.02	3.72	5.38	4.94	8.20	9.12	3.85	3.11	2.91	2.81	2.78	
2	3.53	2.97	3.75	4.90	5.21	6.94	8.42	3.71	3.13	2.91	2.82	2.78	
3	3.43	2.95	3.88	4.58	4.99	7.14	6.92	3.54	3.16	2.91	2.82	2.79	
4	3.43	2.93	3.75	4.66	4.72	8.32	6.06	3.56	3.14	2.90	2.80	3.03	
5	3.58	2.93	3.65	4.82	5.83	8.35	5.83	3.46	3.12	2.90	2.80	3.11	
6	3.64	2.98	3.80	4.99	5.65	7.21	5.47	3.41	3.13	2.90	2.80	3.22	
7	3.65	3.02	3.96	4.63	5.27	6.76	5.41	3.39	3.10	2.90	2.80	3.37	
8	3.63	2.94	5.04	4.59	5.67	6.75	5.20	3.40	3.07	2.90	2.80	3.56	
9	3.68	2.93	6.18	5.33	5.63	7.51	5.00	3.41	3.06	2.89	2.80	3.62	
10	3.68	2.91	6.75	6.66	5.20	9.32	4.84	3.42	3.05	2.89	2.79	3.62	
11	3.72	2.89	8.85	8.08	5.19	10.39	4.76	3.36	3.04	2.89	2.79	3.64	
12	3.71	2.87	9.03	7.36	5.21	10.92	4.72	3.38	3.04	2.89	2.79	3.65	
13	3.75	2.87	8.45	6.29	5.20	10.68	4.56	3.32	3.04	2.88	2.79	3.64	
14	3.74	2.88	7.64	6.64	5.16	9.10	4.48	3.30	3.02	2.88	2.79	3.63	
15	3.75	3.01	6.53	5.98	4.98	6.59	4.39	3.51	3.01	2.88	2.79	3.63	
16	3.68	3.19	5.62	5.42	5.21	6.16	4.23	3.58	3.00	2.87	2.79	3.63	
17	3.82	3.09	5.46	5.14	5.51	7.40	4.08	3.51	2.99	2.86	2.79	3.63	
18	4.10	3.04	5.12	5.67	6.06	7.58	3.98	3.40	2.98	2.86	2.79	3.62	
19	3.60	3.00	4.85	7.80	7.66	6.63	3.89	3.48	2.96	2.85	2.79	3.60	
20	3.60	3.13	5.51	8.43	9.25	6.50	3.98	3.85	2.96	2.84	2.78	3.56	
21	3.46	3.60	5.20	8.43	10.43	6.22	3.96	3.69	2.96	2.84	2.78	3.55	
22	3.32	3.79	4.70	7.22	11.00	6.30	3.92	3.42	2.95	2.84	2.78	3.50	
23	4.26	3.50	4.43	6.30	11.23	6.78	3.85	3.32	2.95	2.83	2.78	3.19	
24	3.76	4.29	4.27	5.87	11.11	8.59	3.97	3.26	2.94	2.83	2.78	3.15	
25	3.39	4.57	5.74	5.43	10.64	8.99	4.04	3.22	2.94	2.83	2.78	3.12	
26	3.44	4.14	5.12	5.45	10.20	7.80	4.61	3.19	2.94	2.82	2.78	3.13	
27	3.37	3.98	4.64	5.29	9.16	7.40	5.00	3.17	2.93	2.82	2.78	3.13	
28	3.21	3.82	5.28	4.87	7.25	8.29	4.67	3.14	2.93	2.82	2.78	3.13	
29	3.13	4.02	6.11	4.60	6.65	9.18	5.10	3.12	2.92	2.81		3.13	
30	3.07	3.80	5.34	4.40	6.65	9.59	4.38	3.12	2.92	2.81		3.13	
31		3.77		4.34	7.53		4.06		2.91	2.81		3.13	
MEAN	3.59	3.32	5.41	5.79	6.92	7.92	4.93	3.42	3.01	2.86	2.79	3.34	
MAX	4.26	4.57	9.03	8.43	11.23	10.92	9.12	3.85	3.16	2.91	2.82	3.65	11.23
MIN	3.07	2.87	3.65	4.34	4.72	6.16	3.85	3.12	2.91	2.81	2.78	2.78	2.78

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.26 M (A.D), AT 1.00 HOURS, ON 23G 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 2.00 M (A.D), RIVER BED -0.67 M (A.D)
LEFT BANK ELEVATION 9.19 M (A.D)
RIGHT BANK ELEVATION 9.67 M (A.D), DRAINAGE AREA 1318 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.84	1.38	6.73	34.50	25.30	124.50	164.00	8.26	1.75	1.03	0.82	0.76	
2	4.70	1.21	7.09	24.50	30.70	78.70	133.30	6.62	1.85	1.03	0.84	0.76	
3	3.84	1.15	8.62	18.20	26.30	85.40	78.10	4.80	2.00	1.03	0.84	0.78	
4	3.84	1.09	7.09	19.70	20.90	129.30	52.30	5.00	1.90	1.00	0.80	1.42	
5	5.20	1.09	5.95	22.90	45.75	130.50	45.75	4.08	1.80	1.00	0.80	1.75	
6	5.84	1.24	7.67	26.30	41.25	87.85	36.75	3.68	1.85	1.00	0.80	2.32	
7	5.95	1.38	9.56	19.10	31.90	73.30	35.25	3.52	1.70	1.00	0.80	3.36	
8	5.73	1.12	27.30	18.35	41.75	73.00	30.50	3.60	1.58	1.00	0.80	5.00	
9	6.28	1.09	55.90	33.25	40.75	98.35	26.50	3.68	1.54	0.98	0.80	5.62	
10	6.28	1.03	73.00	70.30	30.50	174.00	23.30	3.76	1.50	0.98	0.78	5.62	
11	6.73	0.98	151.25	119.70	30.30	244.25	21.70	3.28	1.46	0.98	0.78	5.84	
12	6.62	0.94	159.50	93.10	30.70	289.50	20.90	3.44	1.46	0.98	0.78	5.95	
13	7.09	0.94	134.50	59.20	30.50	268.25	17.90	2.96	1.46	0.96	0.78	5.84	
14	6.97	0.96	102.90	69.70	29.70	163.00	16.70	2.80	1.38	0.96	0.78	5.73	
15	7.09	1.34	66.40	49.90	26.10	68.20	15.35	4.50	1.34	0.96	0.78	5.73	
16	6.28	2.15	40.50	35.50	30.70	55.30	12.95	5.20	1.30	0.94	0.78	5.73	
17	7.91	1.66	36.50	29.30	37.75	94.50	10.97	4.50	1.27	0.92	0.78	5.73	
18	11.20	1.46	28.90	41.75	52.30	100.80	9.79	3.60	1.24	0.92	0.78	5.62	
19	5.40	1.30	23.50	108.50	103.60	69.40	8.73	4.24	1.18	0.90	0.78	5.40	
20	5.40	1.85	37.75	133.70	170.50	65.50	9.79	8.26	1.18	0.88	0.76	5.00	
21	4.08	5.40	30.50	133.70	247.25	57.10	9.56	6.39	1.18	0.88	0.76	4.90	
22	2.96	7.56	20.50	88.20	297.50	59.50	9.09	3.76	1.15	0.88	0.76	4.40	
23	13.40	4.40	15.95	59.50	321.25	73.90	8.26	2.96	1.15	0.86	0.76	2.15	
24	7.20	13.85	13.55	46.75	308.50	140.10	9.67	2.56	1.12	0.86	0.76	1.95	
25	3.52	18.05	43.50	35.75	264.75	157.55	10.50	2.32	1.12	0.86	0.76	1.80	
26	3.92	11.72	28.90	36.25	230.00	108.50	18.70	2.15	1.12	0.84	0.76	1.85	
27	3.36	9.79	19.30	32.30	166.00	94.50	26.50	2.05	1.09	0.84	0.76	1.85	
28	2.26	7.91	32.10	23.90	89.25	128.10	19.90	1.90	1.09	0.84	0.76	1.85	
29	1.85	10.26	53.80	18.50	70.00	167.00	28.50	1.80	1.06	0.82		1.85	
30	1.58	7.67	33.50	15.50	70.00	189.40	15.20	1.80	1.06	0.82		1.85	
31		7.32		14.60	99.05		10.73		1.03	0.82		1.85	
TOTAL	168.32	129.29	1282.21	1532.40	3040.80	3649.25	937.14	117.47	42.91	28.77	21.94	110.26	11060.76 CMSDAY
MEAN	5.61	4.17	42.74	49.43	98.09	121.64	30.23	3.92	1.38	0.93	0.78	3.56	30.30 CMS
MAX	13.40	18.05	159.50	133.70	321.25	289.50	164.00	8.26	2.00	1.03	0.84	5.95	321.25 CMS
MIN	1.58	0.94	5.95	14.60	20.90	55.30	8.26	1.80	1.03	0.82	0.76	0.76	0.76 CMS
RUNOFF	14.543	11.171	110.783	132.399	262.725	315.295	80.969	10.149	3.707	2.486	1.896	9.526	955.650 MCM

MOMENTARY PEAK 325.00 CMS, AT 11.26 M (A.D), AT 1.00 HOURS, ON 23G 24, 1982

RUNOFF YIELD 22.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 246.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

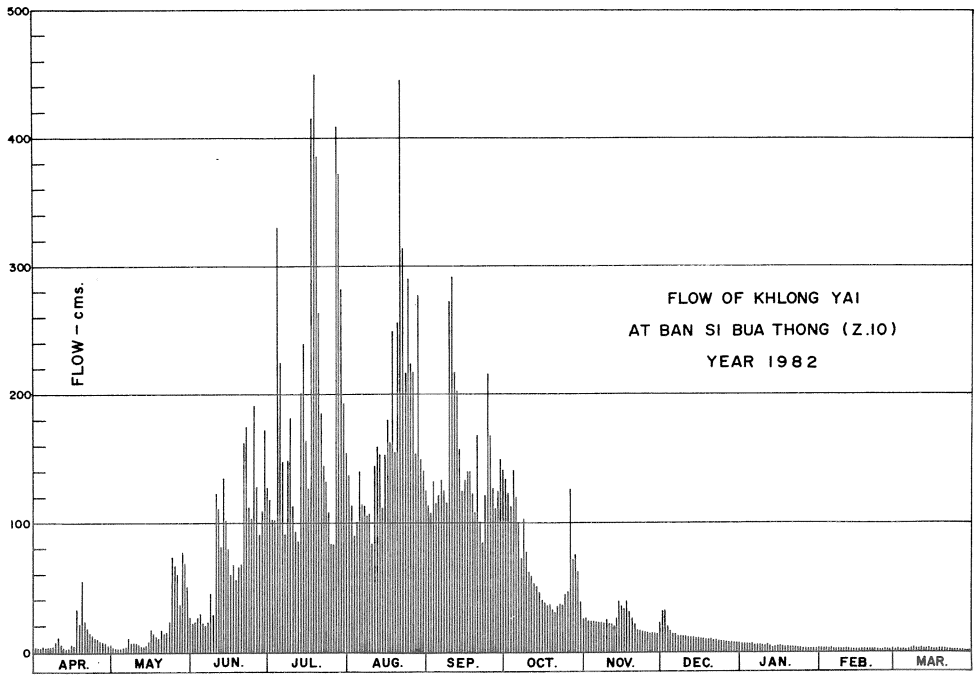
KHLONG YAI AT BAN SI BUA THONG, TRAT (Z.10)

LOCATION	LAT. 12°-28'-28" N., LONG. 102°-28'-52" E., ON RIGHT BANK AT BAN PONG SCHOOL, BAN SI BUA THONG, TAMBON BAN SI BUA THONG, AMPHOE KHAO SAMING, TRAT.
DRAINAGE AREA	920 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 30 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+11.280 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973-1978
RATED BY FLOAT	-
RATED BY CURRENT METER	1973-1978
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SILTING.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 624 DISCHARGE MEASUREMENTS MADE DURING 1973-1978.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.35	1.15	2.04	4.49	4.89	4.27	4.76	2.23	2.45	1.40	1.18	0.97	
2	1.22	1.11	2.16	4.17	4.16	4.26	4.62	2.17	2.45	1.39	1.17	0.96	
3	1.22	1.06	2.28	4.14	3.89	4.76	4.34	2.13	1.86	1.39	1.16	0.95	
4	1.28	1.05	2.35	8.10	4.13	4.40	4.92	2.13	1.82	1.40	1.16	0.94	
5	1.21	1.25	2.13	6.63	4.91	4.32	4.62	2.10	1.71	1.40	1.15	0.94	
6	1.21	1.24	1.96	5.02	4.40	4.76	4.12	2.08	1.71	1.39	1.12	1.08	
7	1.21	1.49	2.12	3.88	4.34	4.55	3.47	2.11	1.67	1.38	1.11	1.26	
8	1.27	1.39	2.81	5.06	4.19	4.41	4.18	2.07	1.65	1.36	1.10	1.16	
9	1.43	1.42	2.28	5.65	4.28	6.91	3.63	2.17	1.63	1.35	1.11	1.25	
10	1.56	1.38	4.57	4.53	3.73	7.50	3.25	2.12	1.64	1.34	1.11	1.17	
11	1.28	1.36	4.35	4.01	4.93	6.27	3.17	2.05	1.62	1.37	1.12	1.14	
12	1.12	1.28	3.70	3.83	5.26	5.96	3.02	1.95	1.60	1.33	1.11	1.10	
13	1.08	1.23	4.80	5.85	5.15	5.29	2.89	1.96	1.59	1.31	1.10	1.10	
14	1.06	1.35	4.23	6.65	4.34	4.55	2.83	2.63	1.57	1.27	1.09	1.03	
15	1.36	1.45	3.45	5.61	5.12	4.61	2.66	2.52	1.57	1.27	1.08	0.99	
16	1.28	1.88	3.20	4.65	5.63	4.88	2.57	2.46	1.55	1.26	1.07	1.02	
17	2.44	1.79	3.41	4.50	5.32	4.91	2.54	2.65	1.54	1.25	1.09	0.98	
18	1.95	1.60	3.11	9.12	6.79	4.52	2.58	2.40	1.53	1.26	1.07	0.96	
19	3.06	1.56	3.35	9.49	5.18	4.26	2.45	2.21	1.51	1.25	1.06	0.96	
20	2.11	1.88	3.39	8.10	6.88	5.42	2.34	2.06	1.50	1.25	1.04	0.94	
21	1.79	1.71	5.25	5.82	9.45	4.07	2.52	1.86	1.49	1.23	1.08	0.93	
22	1.75	1.81	5.56	5.11	7.98	3.77	2.61	1.85	1.48	1.22	1.06	0.92	
23	1.70	2.16	4.37	4.76	6.26	4.82	2.57	1.85	1.46	1.21	1.04	0.89	
24	1.50	3.55	4.17	4.00	7.49	6.25	2.78	1.80	1.47	1.20	1.03	0.88	
25	1.53	3.40	5.82	3.75	6.42	5.27	2.90	1.78	1.46	1.18	1.00	0.88	
26	1.45	3.20	4.22	3.77	6.20	4.74	4.62	1.75	1.45	1.20	0.99	0.87	
27	1.42	2.54	3.88	8.39	5.15	4.31	3.47	1.73	1.43	1.19	0.97	0.86	
28	1.38	3.39	4.31	9.05	7.27	4.62	3.56	1.73	1.42	1.19	0.96	0.84	
29	1.32	3.20	5.49	7.07	5.15	5.06	3.25	1.73	1.42	1.17		0.83	
30	1.35	2.71	4.72	5.95	4.79	4.98	2.63	1.87	1.41	1.18		0.82	
31		2.20		5.27	4.44		2.25		1.40	1.19		0.81	
MEAN	1.50	1.86	3.65	5.69	5.42	4.96	3.29	2.07	1.61	1.28	1.08	0.98	
MAX	3.06	3.55	5.82	9.49	9.45	7.50	4.92	2.65	2.45	1.40	1.18	1.26	9.49
MIN	1.06	1.05	1.96	3.75	3.73	3.77	2.25	1.73	1.40	1.17	0.96	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.72 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)
LEFT BANK ELEVATION 12.43 M (A.D)
RIGHT BANK ELEVATION 11.18 M (A.D), DRAINAGE AREA 920 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.5	2.1	21.0	119.5	139.5	108.5	133.0	25.9	32.5	6.0	2.3	1.0	
2	2.5	1.9	24.0	103.5	103.0	108.0	126.0	24.3	32.5	5.7	2.2	1.0	
3	2.5	1.6	27.4	102.0	90.0	133.0	112.0	23.3	16.5	5.7	2.2	0.9	
4	2.9	1.5	29.5	332.0	101.5	115.0	141.1	23.3	15.5	6.0	2.2	0.8	
5	2.5	2.7	23.3	238.8	140.5	111.0	126.0	22.5	13.2	6.0	2.1	0.8	
6	2.5	2.6	19.0	146.6	115.0	133.0	101.0	22.0	13.2	5.7	1.9	1.7	
7	2.5	8.7	23.0	89.5	112.0	122.5	70.7	22.7	12.4	5.4	1.9	2.8	
8	2.8	5.7	44.8	148.8	104.5	115.5	104.0	21.7	12.0	4.8	1.8	2.2	
9	6.9	6.6	27.4	181.3	109.0	255.6	78.0	24.3	11.6	4.5	1.9	2.7	
10	10.2	5.4	123.5	121.5	82.6	291.0	61.5	23.0	11.8	4.2	1.9	2.2	
11	2.9	4.8	112.5	95.5	141.6	217.2	58.3	21.2	11.4	5.1	1.9	2.0	
12	1.9	2.9	81.3	87.2	159.8	198.6	52.3	18.8	11.0	3.9	1.9	1.8	
13	1.7	2.6	135.0	192.2	153.8	161.5	47.7	19.0	10.8	3.3	1.8	1.8	
14	1.6	4.5	106.5	240.0	112.0	122.5	45.5	38.6	10.4	2.8	1.7	1.4	
15	4.8	7.5	69.8	179.1	152.1	125.5	39.6	34.7	10.4	2.8	1.7	1.1	
16	2.9	17.0	59.5	127.5	180.2	139.0	36.4	32.8	10.0	2.8	1.6	1.3	
17	32.2	14.8	68.0	120.0	163.1	140.5	35.4	39.3	9.8	2.7	1.7	1.1	
18	18.8	11.0	55.9	414.8	248.4	121.0	36.8	31.0	9.6	2.8	1.6	1.0	
19	53.9	10.2	65.5	448.1	155.4	108.0	32.5	25.3	9.2	2.7	1.6	1.0	
20	22.7	17.0	67.1	332.0	253.8	168.6	29.2	21.5	9.0	2.7	1.4	0.8	
21	14.8	13.2	159.3	190.6	444.5	98.5	34.7	16.5	8.7	2.6	1.7	0.8	
22	14.0	15.3	176.3	151.6	323.6	84.5	37.8	16.3	8.4	2.5	1.6	0.7	
23	13.0	24.0	113.5	133.0	216.6	136.0	36.4	16.3	7.8	2.5	1.4	0.5	
24	9.0	74.4	103.5	95.0	290.4	216.0	43.8	15.0	8.1	2.4	1.4	0.5	
25	9.6	67.5	190.6	83.5	226.2	160.3	48.0	14.6	7.8	2.3	1.2	0.5	
26	7.5	59.5	106.0	84.5	213.0	132.0	126.0	14.0	7.5	2.4	1.1	0.4	
27	6.6	35.4	89.5	353.8	153.8	110.5	70.7	13.6	6.9	2.3	1.0	0.4	
28	5.4	67.1	110.5	408.5	277.2	126.0	74.8	13.6	6.6	2.3	1.0	0.2	
29	3.6	59.5	172.4	265.2	153.8	148.8	61.5	13.6	6.6	2.2		0.2	
30	4.5	41.4	131.0	198.0	134.5	144.4	38.6	16.8	6.3	2.3		0.1	
31		25.0		160.3	117.0		26.5		6.0	2.3		0.1	
TOTAL	271.2	613.4	2536.6	5943.9	5368.4	4352.5	2065.8	665.5	353.5	111.7	47.7	33.8	22364.0 CMSDAY
MEAN	9.0	19.8	84.6	191.7	173.2	145.1	66.6	22.2	11.4	3.6	1.7	1.1	61.3 CMS
MAX	53.9	74.4	190.6	448.1	444.5	291.0	141.1	39.3	32.5	6.0	2.3	2.8	448.1 CMS
MIN	1.6	1.5	19.0	83.5	82.6	84.5	26.5	13.6	6.0	2.2	1.0	0.1	0.1 CMS
RUNOFF	23.43	53.00	219.16	513.55	463.83	376.06	178.49	57.50	30.54	9.65	4.12	2.92	1932.25 MCM

MOMENTARY PEAK 468.80 CMS, AT 9.72 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982

RUNOFF YIELD 66.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 509.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

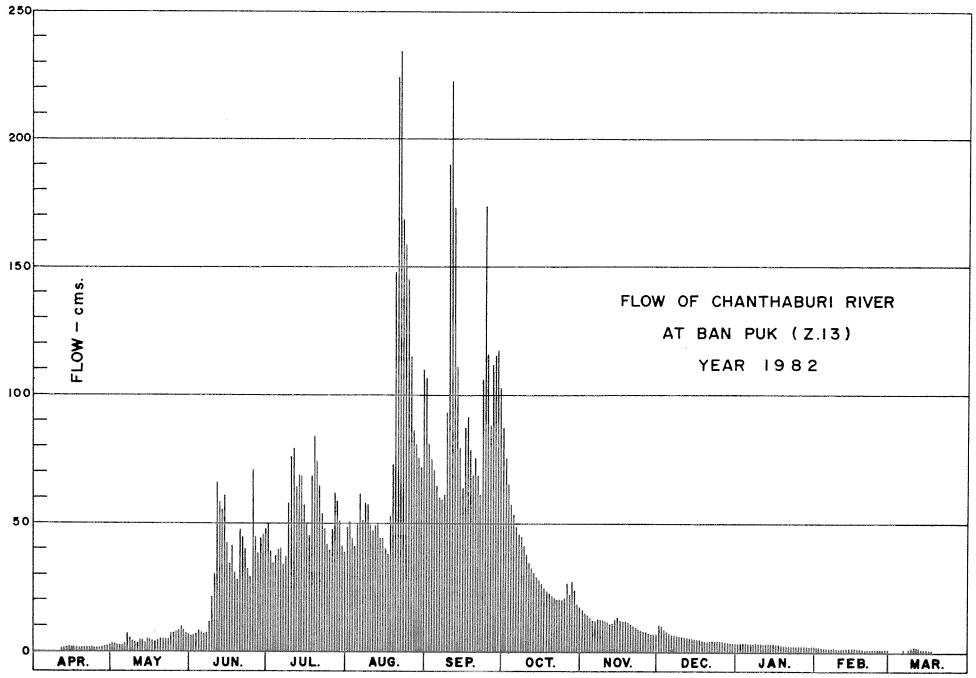
CHANTHABURI RIVER AT BAN PUK, CHANTHABURI (Z.13)

LOCATION	LAT. 12°-45'-40" N., LONG. 102°-18'-35" E., ON LEFT BANK INFRONT OF WAT BAN PUK, AMPHOE MAKHAM, CHANTHABURI.
DRAINAGE AREA	671 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+8.083 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
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 59 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.49	0.71	2.13	2.12	3.64	3.19	1.10	0.91	0.50	0.39	0.19	
2	0.00	0.49	0.71	1.86	2.18	2.95	2.78	1.07	0.89	0.51	0.38	0.19	
3	0.00	0.47	0.72	1.71	2.02	2.80	2.50	1.04	0.82	0.50	0.37	0.18	
4	0.00	0.44	0.81	1.80	1.90	2.72	2.39	1.01	0.79	0.49	0.33	0.16	
5	0.00	0.44	0.78	1.88	2.14	2.55	2.22	0.99	0.76	0.49	0.32	0.16	
6	0.00	0.46	0.74	1.90	2.49	2.44	2.12	0.98	0.74	0.49	0.35	0.21	
7	0.00	0.73	0.76	1.70	2.18	2.44	2.03	1.01	0.72	0.49	0.35	0.19	
8	0.06	0.63	0.93	1.81	2.42	2.50	2.02	1.00	0.70	0.49	0.35	0.32	
9	0.16	0.57	1.27	2.59	2.38	3.63	1.90	0.98	0.69	0.49	0.35	0.35	
10	0.18	0.55	1.59	2.87	2.14	5.92	1.80	0.99	0.68	0.49	0.35	0.39	
11	0.22	0.52	2.60	2.95	2.06	6.15	1.70	0.97	0.67	0.50	0.35	0.36	
12	0.28	0.61	2.40	2.56	2.14	4.80	1.65	0.94	0.67	0.48	0.35	0.35	
13	0.36	0.55	2.30	2.68	2.14	3.26	1.61	0.92	0.65	0.47	0.35	0.33	
14	0.38	0.53	2.47	2.68	1.99	2.80	1.56	1.01	0.64	0.47	0.35	0.31	
15	0.38	0.62	1.95	2.37	1.99	2.54	1.49	1.04	0.63	0.45	0.35	0.29	
16	0.37	0.61	1.71	2.16	1.87	3.15	1.44	0.97	0.62	0.45	0.35	0.26	
17	0.36	0.58	1.90	2.03	1.83	3.25	1.40	0.97	0.61	0.45	0.33	0.23	
18	0.35	0.55	1.62	2.57	2.23	2.90	1.35	0.99	0.60	0.45	0.32	0.20	
19	0.35	0.56	1.49	3.07	2.81	2.69	1.32	0.95	0.59	0.44	0.31	0.19	
20	0.34	0.62	2.09	2.83	4.72	2.85	1.28	0.95	0.58	0.44	0.31	0.19	
21	0.35	0.62	2.00	2.60	6.17	2.68	1.28	0.90	0.57	0.44	0.30	0.16	
22	0.36	0.61	1.89	2.27	6.39	2.49	1.28	0.86	0.57	0.43	0.29	0.14	
23	0.38	0.62	1.67	2.12	5.04	3.47	1.24	0.83	0.56	0.43	0.28	0.11	
24	0.35	0.76	1.53	1.92	4.81	5.14	1.26	0.82	0.56	0.42	0.28	0.06	
25	0.33	0.77	2.74	1.86	4.51	3.81	1.28	0.81	0.56	0.41	0.28	0.01	
26	0.32	0.78	2.02	2.07	3.66	3.17	1.45	0.79	0.55	0.41	0.26	0.00	
27	0.34	0.81	1.78	2.50	3.12	3.73	1.32	0.77	0.54	0.41	0.24	0.00	
28	0.38	0.88	1.96	2.41	2.99	3.85	1.47	0.75	0.54	0.40	0.22	0.00	
29	0.40	0.83	2.05	2.14	2.81	3.90	1.36	0.75	0.51	0.39		0.00	
30	0.44	0.76	2.09	1.92	2.76	3.47	1.20	0.74	0.51	0.39		0.00	
31		0.72		1.83	3.71		1.14		0.51	0.40		0.00	
MEAN	0.25	0.62	1.64	2.25	2.96	3.39	1.68	0.93	0.64	0.45	0.32	0.18	
MAX	0.44	0.88	2.74	3.07	6.39	6.15	3.19	1.10	0.91	0.51	0.39	0.39	6.39
MIN	0.00	0.44	0.71	1.70	1.83	2.44	1.14	0.74	0.51	0.39	0.22	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.48 M (A.D), AT 6.00 HOURS, ON AUG 22, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.64 M (A.D)
LEFT BANK ELEVATION 7.96 M (A.D)
RIGHT BANK ELEVATION 6.83 M (A.D), DRAINAGE AREA 671 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	2.58	5.88	48.55	48.20	106.64	88.60	15.00	10.02	2.70	1.40	0.00	
2	0.00	2.58	5.88	39.10	50.30	79.00	72.34	14.10	9.57	2.83	1.30	0.00	
3	0.00	2.34	6.06	33.85	44.70	73.10	61.70	13.20	7.96	2.70	1.20	0.00	
4	0.00	1.98	7.73	37.00	40.50	70.06	57.65	12.30	7.32	2.58	0.80	0.00	
5	0.00	1.98	7.14	39.80	48.90	63.60	51.70	11.78	6.78	2.58	0.70	0.00	
6	0.00	2.22	6.42	40.50	61.33	59.48	48.20	11.56	6.42	2.58	1.00	0.05	
7	0.00	6.24	6.78	33.50	50.30	59.48	45.05	12.30	6.06	2.58	1.00	0.00	
8	0.00	4.51	10.46	37.35	58.74	61.70	44.70	12.00	5.70	2.58	1.00	0.70	
9	0.00	3.61	20.17	65.12	57.30	106.23	40.50	11.56	5.53	2.58	1.00	1.00	
10	0.00	3.35	29.76	75.83	48.90	210.50	37.00	11.78	5.36	2.58	1.00	1.40	
11	0.10	2.96	65.50	79.00	46.10	222.00	33.50	11.34	5.19	2.70	1.00	1.10	
12	0.40	4.17	58.00	63.98	48.90	157.50	31.75	10.68	5.19	2.46	1.00	1.00	
13	1.10	3.35	54.50	68.54	48.90	91.40	30.35	10.24	4.85	2.34	1.00	0.80	
14	1.30	3.09	60.59	68.54	43.65	73.10	29.04	12.30	4.68	2.34	1.00	0.60	
15	1.30	4.34	42.25	56.95	43.65	63.22	27.27	13.20	4.51	2.10	1.00	0.45	
16	1.20	4.17	33.85	49.60	39.45	87.00	25.62	11.34	4.34	2.10	1.00	0.30	
17	1.10	3.74	40.50	45.05	38.05	91.00	24.30	11.34	4.17	2.10	0.80	0.15	
18	1.00	3.35	30.70	64.36	52.05	77.00	22.70	11.78	4.00	2.10	0.70	0.00	
19	1.00	3.48	27.27	83.80	73.49	68.92	21.74	10.90	3.87	1.98	0.60	0.00	
20	0.90	4.34	47.15	74.27	153.90	75.05	20.48	10.90	3.74	1.98	0.60	0.00	
21	1.00	4.34	44.00	65.50	223.00	68.54	20.48	9.80	3.61	1.98	0.50	0.00	
22	1.10	4.17	40.15	53.45	234.00	61.33	20.48	8.88	3.61	1.86	0.45	0.00	
23	1.30	4.34	32.45	48.20	168.48	99.80	19.24	8.19	3.48	1.86	0.40	0.00	
24	1.00	6.78	28.32	41.20	157.95	173.18	19.86	7.96	3.48	1.74	0.40	0.00	
25	0.80	6.96	70.82	39.10	144.45	113.72	20.48	7.73	3.48	1.62	0.40	0.00	
26	0.70	7.14	44.70	46.45	107.46	87.80	25.95	7.32	3.35	1.62	0.30	0.00	
27	0.90	7.73	36.30	61.70	85.80	110.36	21.74	6.96	3.22	1.62	0.20	0.00	
28	1.30	9.34	42.60	58.37	80.60	115.40	26.61	6.60	3.22	1.50	0.10	0.00	
29	1.50	8.19	45.75	48.90	73.49	117.50	23.02	6.60	2.83	1.40		0.00	
30	1.98	6.78	47.15	41.20	71.58	99.80	18.00	6.42	2.83	1.40		0.00	
31		6.06		38.05	109.52		16.20		2.83	1.50		0.00	
TOTAL	20.98	140.21	998.83	1646.81	2553.64	2943.41	1046.25	316.06	151.20	66.59	21.85	7.55	9913.38 CMSDAY
MEAN	0.70	4.52	33.29	53.12	82.38	98.11	33.75	10.54	4.88	2.15	0.78	0.24	27.16 CMS
MAX	1.98	9.34	70.82	83.80	234.00	222.00	88.60	15.00	10.02	2.83	1.40	1.40	234.00 CMS
MIN	0.00	1.98	5.88	33.50	38.05	59.48	16.20	6.42	2.83	1.40	0.10	0.00	0.00 CMS
RUNOFF	1.813	12.114	86.299	142.284	220.635	254.311	90.396	27.308	13.064	5.753	1.888	0.652	856.516 MCM

MOMENTARY PEAK 238.50 CMS, AT 6.48 M (A.D), AT 6.00 HOURS, ON AUG 22, 1982
RUNOFF YIELD 40.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 355.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

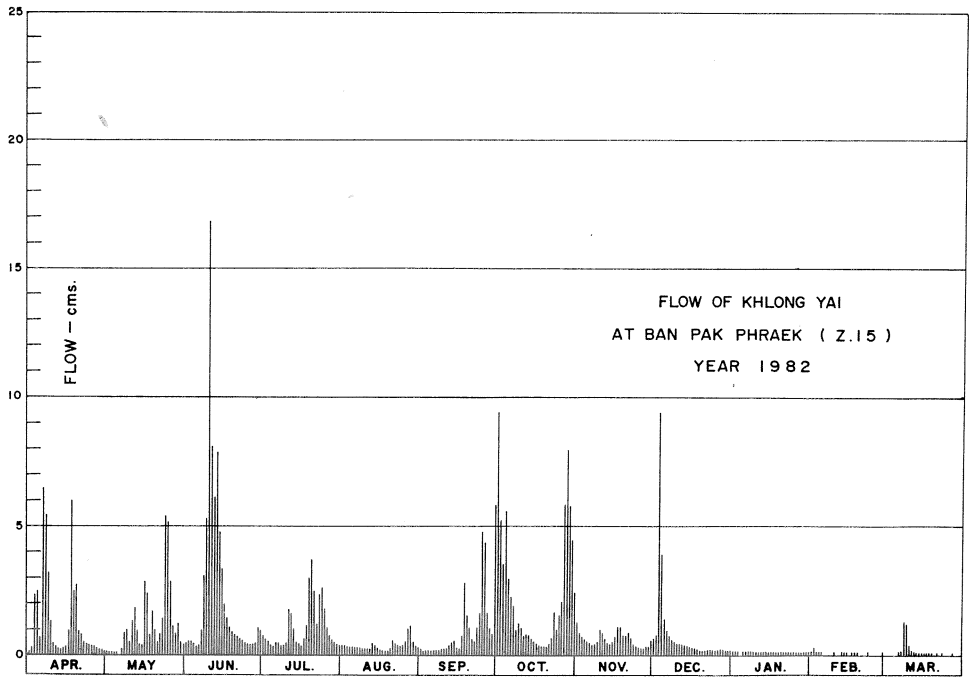
KHLONG YAI AT BAN PAK PHRAEK, RAYONG (Z.15)

LOCATION	LAT. 12°-55'-41" N., LONG. 101°-19'-30" E., ON RIGHT BANK AT BAN PAK PHRAEK, KING AMPHOE PLUAK DAENG, RAYONG.
DRAINAGE AREA	244 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+4.715 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	0.51	0.77	0.90	0.71	0.61	2.63	1.16	0.86	0.52	0.52	0.40	
2	0.51	0.45	0.80	0.85	0.72	0.52	2.39	0.96	0.95	0.54	0.63	0.40	
3	1.57	0.44	0.82	0.79	0.70	0.53	1.91	0.91	2.63	0.53	0.46	0.40	
4	1.63	0.42	0.77	0.75	0.69	0.52	2.37	0.86	2.04	0.51	0.46	0.40	
5	0.87	0.41	0.69	0.67	0.67	0.50	1.80	0.82	1.26	0.53	0.44	0.40	
6	2.49	0.37	0.70	0.79	0.65	0.53	1.20	0.77	1.03	0.52	0.39	0.41	
7	2.42	0.52	1.08	0.78	0.63	0.53	1.08	0.71	0.90	0.55	0.39	1.20	
8	1.95	1.00	1.86	0.70	0.63	0.54	1.05	0.77	0.82	0.50	0.40	1.18	
9	1.11	1.05	2.34	0.69	0.62	0.56	1.16	0.81	0.78	0.50	0.40	0.63	
10	0.79	0.72	2.84	0.75	0.62	0.62	1.09	1.03	0.73	0.44	0.41	0.58	
11	0.72	1.23	2.59	1.39	0.60	0.61	0.95	0.98	0.71	0.49	0.40	0.51	
12	0.65	1.41	2.45	1.31	0.59	0.68	0.96	0.85	0.69	0.49	0.40	0.50	
13	0.60	0.84	2.57	0.96	0.76	0.80	0.96	0.76	0.70	0.46	0.41	0.52	
14	0.67	0.64	2.30	0.76	0.74	0.81	0.90	0.74	0.68	0.45	0.41	0.51	
15	0.69	0.72	1.76	0.75	0.62	0.61	0.80	0.78	0.66	0.53	0.41	0.50	
16	1.06	1.74	1.38	0.68	0.55	0.56	0.78	0.93	0.64	0.50	0.40	0.49	
17	2.43	1.60	1.19	0.85	0.53	0.96	0.74	1.12	0.62	0.52	0.45	0.48	
18	1.65	0.95	1.08	1.17	0.51	1.73	0.71	1.10	0.58	0.52	0.43	0.48	
19	1.72	1.33	1.01	1.79	0.51	1.29	0.68	0.91	0.53	0.50	0.41	0.44	
20	1.02	0.92	0.98	1.98	0.59	1.01	0.71	0.92	0.53	0.49	0.40	0.40	
21	0.98	0.75	0.94	1.67	0.84	0.84	0.72	0.99	0.54	0.47	0.40	0.41	
22	0.81	1.03	0.89	1.14	0.76	0.81	0.91	0.91	0.55	0.42	0.40	0.40	
23	0.76	1.34	0.84	1.57	0.70	1.04	1.34	0.74	0.55	0.46	0.41	0.42	
24	0.74	2.34	0.80	1.67	0.69	1.36	1.05	0.70	0.54	0.40	0.39	0.38	
25	0.72	2.29	0.75	1.45	0.71	2.22	1.36	0.65	0.54	0.43	0.40	0.38	
26	0.71	1.48	0.74	1.12	0.80	2.12	1.55	0.63	0.55	0.41	0.40	0.39	
27	0.62	1.02	0.75	0.93	1.06	1.37	2.43	0.62	0.56	0.42	0.40	0.41	
28	0.59	0.95	0.77	0.84	1.09	1.05	2.57	0.67	0.55	0.41	0.40	0.38	
29	0.62	1.14	1.11	0.79	0.82	0.94	2.43	0.66	0.54	0.41		0.40	
30	0.54	0.83	1.02	0.72	0.68	2.37	2.32	0.86	0.55	0.42		0.40	
31		0.74		0.71	0.64		1.63		0.54	0.45		0.38	
MEAN	1.07	1.01	1.29	1.03	0.69	0.95	1.39	0.84	0.79	0.48	0.42	0.49	
MAX	2.49	2.34	2.84	1.98	1.09	2.37	2.63	1.16	2.63	0.55	0.63	1.20	2.84
MIN	0.47	0.37	0.69	0.67	0.51	0.50	0.68	0.62	0.53	0.40	0.39	0.38	0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.04 M (A.D), AT 12.00 HOURS, ON DEC 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.03 M (A.D)
LEFT BANK ELEVATION 4.36 M (A.D)
RIGHT BANK ELEVATION 4.35 M (A.D), DRAINAGE AREA 244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.08	0.40	0.63	0.32	0.19	9.35	1.18	0.56	0.09	0.09	0.00	
2	0.08	0.03	0.45	0.54	0.33	0.09	5.64	0.74	0.73	0.11	0.22	0.00	
3	2.25	0.03	0.49	0.44	0.30	0.10	3.35	0.65	9.35	0.10	0.04	0.00	
4	2.43	0.01	0.40	0.38	0.29	0.09	5.52	0.56	3.88	0.08	0.04	0.00	
5	0.58	0.01	0.29	0.26	0.26	0.07	2.97	0.49	1.42	0.10	0.03	0.00	
6	6.42	0.00	0.30	0.44	0.24	0.10	1.28	0.40	0.89	0.09	0.00	0.01	
7	5.86	0.09	1.00	0.42	0.22	0.10	1.00	0.32	0.63	0.13	0.00	1.28	
8	3.51	0.82	3.17	0.30	0.22	0.11	0.93	0.40	0.49	0.07	0.00	1.23	
9	1.06	0.93	5.34	0.29	0.20	0.14	1.18	0.47	0.42	0.07	0.00	0.22	
10	0.44	0.33	16.80	0.38	0.20	0.20	1.02	0.89	0.35	0.03	0.01	0.16	
11	0.33	1.35	8.26	1.75	0.18	0.19	0.73	0.78	0.32	0.06	0.00	0.08	
12	0.24	1.80	6.10	1.54	0.17	0.28	0.74	0.54	0.29	0.06	0.00	0.07	
13	0.18	0.52	7.86	0.74	0.39	0.45	0.74	0.39	0.30	0.04	0.01	0.09	
14	0.26	0.23	5.10	0.39	0.36	0.47	0.63	0.36	0.28	0.03	0.01	0.08	
15	0.29	0.33	2.84	0.38	0.20	0.19	0.45	0.42	0.25	0.10	0.01	0.07	
16	0.95	2.78	1.72	0.28	0.13	0.14	0.42	0.69	0.23	0.07	0.00	0.06	
17	5.94	2.34	1.26	0.54	0.10	0.74	0.36	1.09	0.20	0.09	0.03	0.06	
18	2.50	0.73	1.00	1.21	0.08	2.75	0.32	1.04	0.16	0.09	0.02	0.06	
19	2.71	1.60	0.84	2.94	0.08	1.50	0.28	0.65	0.10	0.07	0.01	0.03	
20	0.86	0.67	0.78	3.62	0.17	0.84	0.32	0.67	0.10	0.06	0.00	0.00	
21	0.78	0.38	0.71	2.56	0.52	0.52	0.33	0.80	0.11	0.05	0.00	0.01	
22	0.47	0.89	0.61	1.14	0.39	0.47	0.65	0.65	0.13	0.01	0.00	0.00	
23	0.39	1.62	0.52	2.25	0.30	0.91	1.62	0.36	0.13	0.04	0.01	0.01	
24	0.36	5.34	0.45	2.56	0.29	1.67	0.93	0.30	0.11	0.00	0.00	0.00	
25	0.33	5.05	0.38	1.91	0.32	4.70	1.67	0.24	0.11	0.02	0.00	0.00	
26	0.32	1.99	0.36	1.09	0.45	4.24	2.19	0.22	0.13	0.01	0.00	0.00	
27	0.20	0.86	0.38	0.69	0.95	1.70	5.94	0.20	0.14	0.01	0.00	0.01	
28	0.17	0.73	0.40	0.52	1.02	0.93	7.86	0.26	0.13	0.01	0.00	0.00	
29	0.20	1.14	1.06	0.44	0.49	0.71	5.94	0.25	0.11	0.01		0.00	
30	0.11	0.50	0.86	0.33	0.28	5.52	5.22	0.56	0.13	0.01		0.00	
31		0.36		0.32	0.23		2.43		0.11	0.03		0.00	
TOTAL	40.27	33.54	70.13	31.28	9.68	30.11	72.01	16.57	22.29	1.74	0.53	3.53	331.68 CMSDAY
MEAN	1.34	1.08	2.34	1.01	0.31	1.00	2.32	0.55	0.72	0.06	0.02	0.11	0.91 CMS
MAX	6.42	5.34	16.80	3.62	1.02	5.52	9.35	1.18	9.35	0.13	0.22	1.28	16.80 CMS
MIN	0.05	0.00	0.29	0.26	0.08	0.07	0.28	0.20	0.10	0.00	0.00	0.00	0.00 CMS
RUNOFF	3.479	2.898	6.059	2.703	0.836	2.602	6.222	1.432	1.926	0.150	0.046	0.305	28.657 MCM

MOMENTARY PEAK 28.76 CMS, AT 3.04 M (A.D), AT 12.00 HOURS, ON DEC 2, 1982
RUNOFF YIELD 3.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 117.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

EAST COAST-GULF BASIN

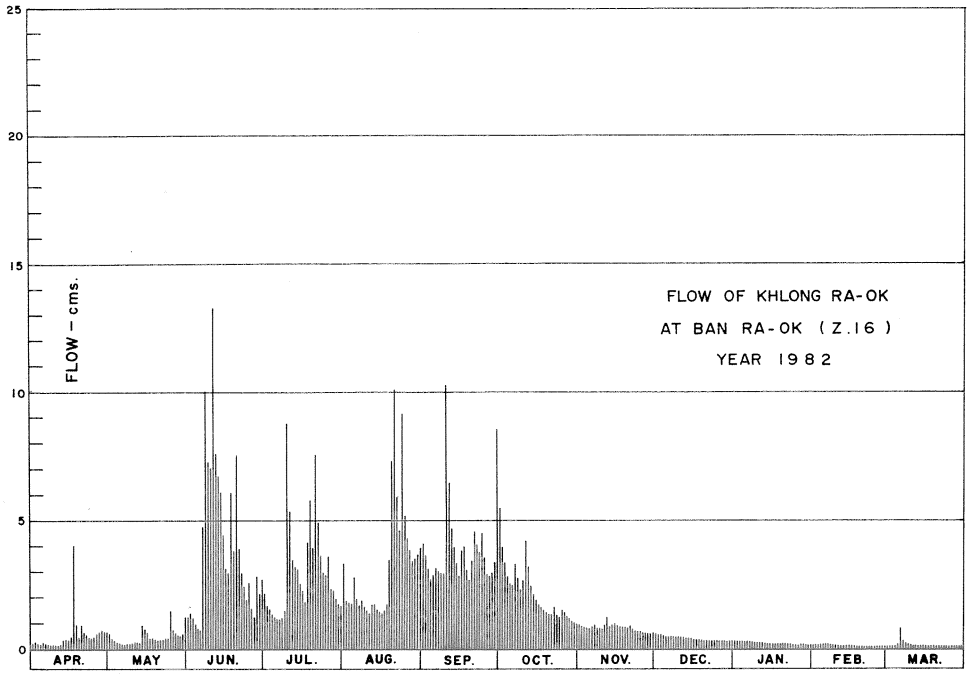
KHLONG RA-OK AT BAN RA-OK, RAYONG (Z.16)

LOCATION	LAT. 12°-51'-38" N., LONG. 101°-45'-41" E., ON RIGHT BANK NEAR KHAO CHUK AT BAN RA-OK TAMBON THUNG KHWAI KIN, AMPHOE KLAENG, RAYONG.
DRAINAGE AREA	41 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE STATION OFFICE.
ELEVATION	+3.368 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.78	0.98	1.19	1.44	1.59	1.87	0.88	0.79	0.68	0.62	0.54	
2	0.68	0.73	1.02	1.10	1.13	1.50	1.56	0.87	0.78	0.68	0.62	0.55	
3	0.65	0.70	0.93	1.06	1.11	1.40	1.42	0.86	0.78	0.68	0.62	0.55	
4	0.63	0.67	0.90	1.01	1.11	1.32	1.33	0.86	0.77	0.68	0.62	0.55	
5	0.67	0.65	0.84	0.97	1.32	1.35	1.26	0.85	0.76	0.68	0.62	0.57	
6	0.63	0.64	0.83	0.95	1.14	1.41	1.27	0.86	0.75	0.68	0.62	0.85	
7	0.64	0.64	1.66	0.95	1.08	1.39	1.44	0.88	0.75	0.67	0.62	0.69	
8	0.63	0.63	2.56	0.96	1.14	1.36	1.31	0.85	0.75	0.67	0.62	0.66	
9	0.62	0.64	2.14	1.07	1.08	1.36	1.22	0.85	0.74	0.66	0.61	0.64	
10	0.61	0.64	2.10	2.37	1.04	2.59	1.32	0.84	0.74	0.66	0.60	0.63	
11	0.61	0.67	3.01	1.85	1.02	2.06	1.60	0.86	0.74	0.66	0.60	0.62	
12	0.60	0.68	2.14	1.48	1.09	1.71	1.37	0.96	0.73	0.65	0.59	0.62	
13	0.71	0.64	2.04	1.41	1.10	1.55	1.25	0.87	0.73	0.64	0.59	0.61	
14	0.73	0.89	1.92	1.41	1.04	1.43	1.18	0.88	0.72	0.64	0.59	0.62	
15	0.71	0.85	1.56	1.27	1.04	1.34	1.12	0.91	0.72	0.64	0.59	0.61	
16	0.76	0.82	1.38	1.20	1.01	1.53	1.08	0.87	0.71	0.64	0.60	0.60	
17	1.67	0.72	1.37	1.12	1.04	1.56	1.06	0.87	0.71	0.63	0.60	0.60	
18	0.96	0.77	1.95	1.62	1.15	1.40	1.05	0.86	0.70	0.63	0.58	0.59	
19	0.73	0.72	1.55	1.90	1.71	1.32	1.02	0.87	0.70	0.63	0.58	0.59	
20	0.93	0.71	2.19	1.56	2.28	1.46	1.01	0.85	0.69	0.63	0.58	0.59	
21	0.80	0.70	1.55	2.19	2.56	1.68	1.00	0.88	0.69	0.63	0.57	0.58	
22	0.80	0.72	1.34	1.74	1.95	1.58	1.06	0.84	0.69	0.63	0.57	0.57	
23	0.74	0.73	1.23	1.50	1.69	1.53	1.00	0.83	0.69	0.62	0.57	0.58	
24	0.73	0.73	1.15	1.36	2.43	1.67	0.97	0.82	0.69	0.61	0.57	0.58	
25	0.74	1.04	1.29	1.35	1.83	1.46	0.97	0.81	0.69	0.60	0.56	0.58	
26	0.80	0.84	1.01	1.49	1.61	1.36	1.03	0.80	0.69	0.60	0.56	0.56	
27	0.80	0.79	0.98	1.24	1.53	1.35	0.98	0.80	0.68	0.61	0.57	0.56	
28	0.83	0.76	1.34	1.23	1.46	1.39	0.95	0.79	0.68	0.62	0.56	0.55	
29	0.82	0.75	1.19	1.14	1.49	1.47	0.93	0.78	0.67	0.62		0.56	
30	0.81	0.77	1.32	1.10	1.51	2.33	0.91	0.81	0.68	0.62		0.54	
31		0.98		1.08	1.56		0.90		0.68	0.62		0.55	
MEAN	0.76	0.74	1.52	1.35	1.41	1.55	1.18	0.85	0.72	0.64	0.59	0.60	
MAX	1.67	1.04	3.01	2.37	2.56	2.59	1.87	0.96	0.79	0.68	0.62	0.85	3.01
MIN	0.60	0.63	0.83	0.95	1.01	1.32	0.90	0.78	0.67	0.60	0.56	0.54	0.54

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.30 M (A.D), AT 9.00 HOURS, ON JUN 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.25 M (A.D)
LEFT BANK ELEVATION 3.78 M (A.D)
RIGHT BANK ELEVATION 7.02 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.52	1.21	2.08	3.26	4.05	5.58	0.85	0.55	0.24	0.12	0.03	
2	0.24	0.37	1.36	1.70	1.83	3.56	3.89	0.82	0.52	0.24	0.12	0.04	
3	0.18	0.28	1.03	1.53	1.74	3.06	3.16	0.78	0.52	0.24	0.12	0.04	
4	0.14	0.22	0.92	1.32	1.74	2.68	2.72	0.78	0.49	0.24	0.12	0.04	
5	0.22	0.18	0.72	1.17	2.68	2.82	2.40	0.75	0.46	0.24	0.12	0.06	
6	0.14	0.16	0.68	1.10	1.87	3.11	2.44	0.78	0.43	0.24	0.12	0.75	
7	0.16	0.16	4.43	1.10	1.62	3.01	3.26	0.85	0.43	0.22	0.12	0.26	
8	0.14	0.14	10.03	1.14	1.87	2.87	2.63	0.75	0.43	0.22	0.12	0.20	
9	0.12	0.16	7.24	1.57	1.62	2.87	2.21	0.75	0.40	0.20	0.10	0.16	
10	0.10	0.16	6.98	8.74	1.45	10.23	2.68	0.72	0.40	0.20	0.08	0.14	
11	0.10	0.22	13.25	5.47	1.36	6.73	4.11	0.78	0.40	0.20	0.08	0.12	
12	0.08	0.24	7.24	3.46	1.66	4.70	2.92	1.14	0.37	0.18	0.07	0.12	
13	0.31	0.16	6.61	3.11	1.70	3.83	2.35	0.82	0.37	0.16	0.07	0.10	
14	0.37	0.89	5.86	3.11	1.45	3.21	2.04	0.85	0.34	0.16	0.07	0.12	
15	0.31	0.75	3.89	2.44	1.45	2.77	1.78	0.96	0.34	0.16	0.07	0.10	
16	0.46	0.65	2.96	2.12	1.32	3.72	1.62	0.82	0.31	0.16	0.08	0.08	
17	4.49	0.34	2.92	1.78	1.45	3.89	1.53	0.82	0.31	0.14	0.08	0.08	
18	1.14	0.49	6.05	4.21	1.91	3.06	1.49	0.78	0.28	0.14	0.06	0.07	
19	0.37	0.34	3.83	5.74	4.70	2.68	1.36	0.82	0.28	0.14	0.06	0.07	
20	1.03	0.31	7.56	3.89	8.15	3.36	1.32	0.75	0.26	0.14	0.06	0.07	
21	0.58	0.28	3.83	7.56	10.03	4.54	1.28	0.85	0.26	0.14	0.06	0.06	
22	0.58	0.34	2.77	4.87	6.05	4.00	1.53	0.72	0.26	0.14	0.06	0.06	
23	0.40	0.37	2.26	3.56	4.60	3.72	1.28	0.68	0.26	0.12	0.06	0.06	
24	0.37	0.37	1.91	2.87	9.14	4.49	1.17	0.65	0.26	0.10	0.06	0.06	
25	0.40	1.45	2.53	2.82	5.36	3.36	1.17	0.61	0.26	0.08	0.05	0.06	
26	0.58	0.72	1.32	3.51	4.16	2.87	1.41	0.58	0.26	0.08	0.05	0.05	
27	0.58	0.55	1.21	2.30	3.72	2.82	1.21	0.58	0.24	0.10	0.06	0.05	
28	0.68	0.46	2.77	2.26	3.36	3.01	1.10	0.55	0.24	0.12	0.05	0.04	
29	0.65	0.43	2.08	1.87	3.51	3.41	1.03	0.52	0.22	0.12		0.05	
30	0.61	0.49	2.68	1.70	3.61	8.48	0.96	0.61	0.24	0.12		0.03	
31		1.21		1.62	3.89		0.92		0.24	0.12		0.04	
TOTAL	15.69	13.41	118.13	91.72	102.26	116.91	64.55	22.72	10.63	5.10	2.29	3.21	566.62 CMSDAY
MEAN	0.52	0.43	3.94	2.96	3.30	3.90	2.08	0.76	0.34	0.16	0.08	0.10	1.55 CMS
MAX	4.49	1.45	13.25	8.74	10.03	10.23	5.58	1.14	0.55	0.24	0.12	0.75	13.25 CMS
MIN	0.08	0.14	0.68	1.10	1.32	2.68	0.92	0.52	0.22	0.08	0.05	0.03	0.03 CMS
RUNOFF	1.356	1.159	10.206	7.925	8.835	10.101	5.577	1.963	0.918	0.441	0.198	0.277	48.956 MCM

MOMENTARY PEAK 15.40 CMS, AT 3.30 M (A.D), AT 9.00 HOURS, ON JUN 11, 1982
RUNOFF YIELD 37.86 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 375.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

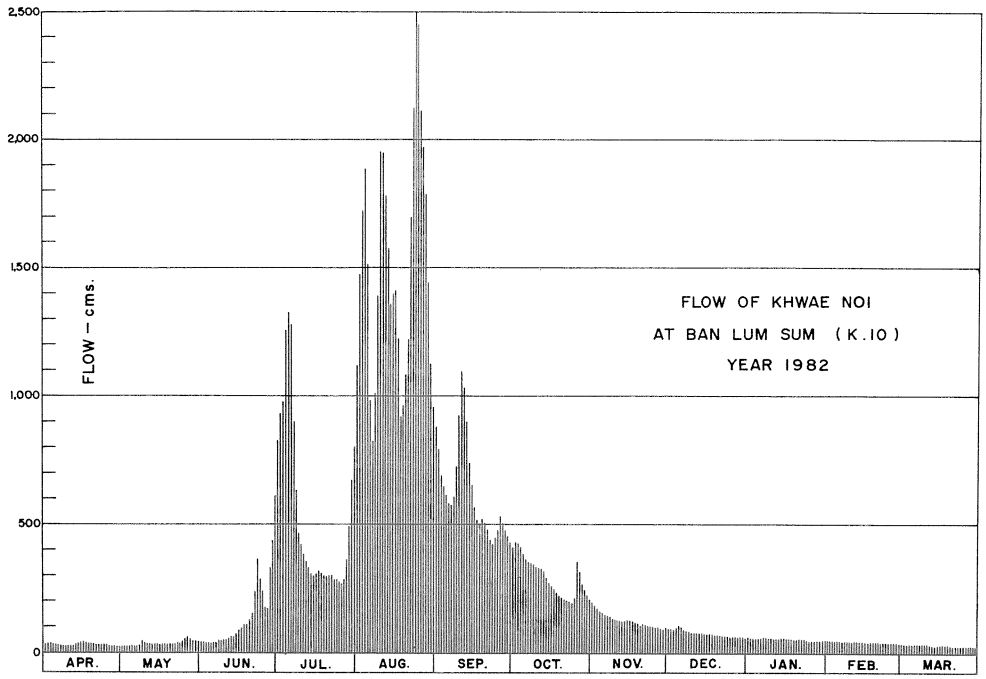
KHWAE NOI RIVER AT BAN LUM SUM, KANCHANABURI (K.10)

LOCATION	LAT. 14°-05'-40" N., LONG. 99°-10'-28" E., ON LEFT BANK ABOUT 100 METERS UPSTREAM FROM BAN LUM SUM RAILWAY STATION, AMPHOE SAI YOK, KANCHANABURI.
DRAINAGE AREA	7,008 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+30.40 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE GAGE SITE.
ELEVATION	+52.057 M. (M.S.L.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +46.90 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 61 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.27	31.07	31.40	40.11	41.85	40.11	36.31	33.65	32.26	31.72	31.45	31.24	
2	31.37	31.06	31.38	40.47	43.47	39.52	36.47	33.53	32.25	31.72	31.44	31.24	
3	31.40	31.05	31.32	40.75	44.86	38.86	36.44	33.41	32.26	31.71	31.44	31.23	
4	31.28	31.05	31.32	42.26	45.21	38.51	36.21	33.30	32.46	31.71	31.43	31.23	
5	31.21	31.05	31.30	42.65	43.49	38.24	35.98	33.20	32.50	31.71	31.42	31.22	
6	31.16	31.06	31.34	42.38	40.85	37.96	35.77	33.13	32.28	31.70	31.41	31.22	
7	31.14	31.09	31.41	40.57	39.68	37.94	35.51	33.09	32.18	31.70	31.40	31.22	
8	31.15	31.15	31.56	38.20	41.12	38.36	35.51	33.02	32.14	31.70	31.39	31.21	
9	31.13	31.48	31.57	36.88	43.83	39.33	35.51	32.95	32.11	31.69	31.38	31.21	
10	31.17	31.33	31.54	36.22	45.45	40.63	35.46	32.89	32.08	31.68	31.38	31.21	
11	31.19	31.24	31.58	35.98	45.44	41.37	35.42	32.85	32.07	31.65	31.37	31.20	
12	31.18	31.18	31.69	35.71	44.11	40.98	35.33	32.79	32.05	31.64	31.36	31.19	
13	31.23	31.13	31.82	35.44	42.86	40.02	35.14	32.73	32.03	31.63	31.36	31.19	
14	31.34	31.11	31.75	35.15	43.16	39.13	34.94	32.74	32.00	31.61	31.35	31.18	
15	31.41	31.09	31.82	35.01	43.14	38.43	34.72	32.83	31.97	31.60	31.34	31.17	
16	31.49	31.10	32.23	35.19	41.95	37.84	34.52	32.79	31.95	31.59	31.33	31.17	
17	31.37	31.09	32.35	35.30	40.74	37.41	34.37	32.74	31.93	31.57	31.32	31.16	
18	31.28	31.11	32.58	35.13	40.32	37.20	34.21	32.67	31.93	31.56	31.31	31.16	
19	31.24	31.12	32.63	35.03	40.69	37.39	34.07	32.67	31.91	31.55	31.30	31.15	
20	31.23	31.16	32.93	35.10	41.46	37.35	33.96	32.62	31.89	31.55	31.29	31.15	
21	31.21	31.23	33.39	35.15	42.22	36.98	33.89	32.57	31.87	31.54	31.28	31.15	
22	31.23	31.25	34.66	34.92	44.63	36.59	33.93	32.53	31.85	31.53	31.28	31.14	
23	31.25	31.30	35.71	34.96	46.64	36.33	33.86	32.48	31.83	31.52	31.27	31.13	
24	31.22	31.34	34.83	34.91	47.53	36.64	33.78	32.44	31.82	31.51	31.26	31.13	
25	31.18	31.62	34.12	34.72	46.89	36.99	34.23	32.39	31.80	31.50	31.26	31.12	
26	31.16	31.68	33.48	34.75	45.80	37.29	35.71	32.36	31.80	31.49	31.25	31.11	
27	31.13	31.67	33.62	35.06	45.36	37.17	35.16	32.33	31.80	31.48	31.25	31.11	
28	31.11	31.56	35.45	36.03	44.24	37.04	34.57	32.30	31.78	31.47	31.25	31.10	
29	31.10	31.50	37.56	37.70	42.45	36.65	34.39	32.27	31.76	31.47		31.10	
30	31.09	31.44	38.95	38.94	41.24	36.34	34.12	32.25	31.75	31.46		31.09	
31		31.44		39.90	40.61		33.86		31.73	31.46		31.09	
MEAN	31.23	31.25	32.91	37.12	43.27	38.15	34.95	32.78	32.00	31.59	31.34	31.17	
MAX	31.49	31.68	38.95	42.65	47.53	41.37	36.47	33.65	32.50	31.72	31.45	31.24	47.53
MIN	31.09	31.05	31.30	34.72	39.68	36.33	33.78	32.25	31.73	31.46	31.25	31.09	31.05

ANNUAL MAX MOMENTARY GAGE HEIGHT 47.57 M (MSL), AT 21.00 HOURS, ON AUG 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 30.40 M (MSL), RIVER BED 28.74 M (MSL)
LEFT BANK ELEVATION 51.95 M (MSL)
RIGHT BANK ELEVATION 46.90 M (MSL), DRAINAGE AREA 7008 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	31.5	21.5	38.0	885.6	1181.0	885.6	409.9	180.0	85.6	54.0	40.5	30.0	
2	36.5	21.0	37.0	943.2	1486.7	793.0	424.3	171.1	85.0	54.0	40.0	30.0	
3	38.0	20.5	34.0	989.5	1797.4	695.4	421.6	162.7	85.6	53.5	40.0	29.5	
4	32.0	20.5	34.0	1254.8	1882.5	648.3	400.9	155.0	97.6	53.5	39.5	29.5	
5	28.5	20.5	33.0	1322.2	1490.9	613.2	380.2	148.0	100.0	53.5	39.0	29.0	
6	26.0	21.0	35.0	1276.4	1006.5	579.2	361.3	143.1	86.8	53.0	38.5	29.0	
7	25.0	22.5	38.5	959.2	817.0	576.8	337.9	140.3	80.8	53.0	38.0	29.0	
8	25.5	25.5	46.0	608.0	1052.4	628.8	337.9	135.4	78.4	53.0	37.5	28.5	
9	24.5	42.0	46.5	464.0	1562.6	764.5	337.9	130.5	76.6	52.5	37.0	28.5	
10	26.5	34.5	45.0	401.8	1942.5	969.1	333.4	126.3	74.8	52.0	37.0	28.5	
11	27.5	30.0	47.0	380.2	1940.0	1094.9	329.8	123.5	74.2	50.5	36.5	28.0	
12	27.0	27.0	52.5	355.9	1624.2	1028.6	321.7	119.3	73.0	50.0	36.0	27.5	
13	29.5	24.5	59.2	331.6	1357.6	871.2	304.6	115.1	71.8	49.5	36.0	27.5	
14	35.0	23.5	55.5	305.5	1408.2	734.5	286.6	115.8	70.0	48.5	35.5	27.0	
15	38.5	22.5	59.2	292.9	1404.9	637.9	266.8	122.1	68.2	48.0	35.0	26.5	
16	42.5	23.0	83.8	309.1	1199.0	564.8	249.6	119.3	67.0	47.5	34.5	26.5	
17	36.5	22.5	91.0	319.0	987.8	517.0	237.6	115.8	65.8	46.5	34.0	26.0	
18	32.0	23.5	104.8	303.7	919.2	496.0	224.8	110.9	65.8	46.0	33.5	26.0	
19	30.0	24.0	108.1	294.7	979.3	515.0	213.6	110.9	64.6	45.5	33.0	25.5	
20	29.5	26.0	129.1	301.0	1110.8	511.0	204.8	107.4	63.4	45.5	32.5	25.5	
21	28.5	29.5	161.3	305.5	1247.6	474.0	199.2	104.2	62.2	45.0	32.0	25.5	
22	29.5	30.5	261.4	284.8	1742.2	435.1	202.4	101.8	61.0	44.5	32.0	25.0	
23	30.5	33.0	355.9	288.4	2251.4	411.7	196.8	98.8	59.8	44.0	31.5	24.5	
24	29.0	35.0	276.7	283.9	2667.4	440.0	190.4	96.4	59.2	43.5	31.0	24.5	
25	27.0	49.0	217.6	266.8	2318.3	475.0	226.4	93.4	58.0	43.0	31.0	24.0	
26	26.0	52.0	167.6	269.5	2033.0	505.0	355.9	91.6	58.0	42.5	30.5	23.5	
27	24.5	51.5	177.6	297.4	1920.0	493.0	306.4	89.8	58.0	42.0	30.5	23.5	
28	23.5	46.0	332.5	384.7	1652.8	480.0	253.6	88.0	57.0	41.5	30.5	23.0	
29	23.0	43.0	532.6	548.0	1288.4	441.0	239.2	86.2	56.0	41.5		23.0	
30	22.5	40.0	708.0	706.6	1072.8	412.6	217.6	85.0	55.5	41.0		22.5	
31		40.0		852.0	965.7		196.8		54.5	41.0		22.5	
TOTAL	886.0	945.5	4368.4	16785.9	46310.1	18692.2	8969.9	3587.7	2174.2	1479.0	982.5	819.0	106000.4 CMSDAY
MEAN	29.5	30.5	145.6	541.5	1493.9	623.1	289.4	119.6	70.1	47.7	35.1	26.4	290.4 CMS
MAX	42.5	52.0	708.0	1322.2	2667.4	1094.9	424.3	180.0	100.0	54.0	40.5	30.0	2667.4 CMS
MIN	22.5	20.5	33.0	266.8	817.0	411.7	190.4	85.0	54.5	41.0	30.5	22.5	20.5 CMS
RUNOFF	76.55	81.69	377.43	1450.30	4001.19	1615.01	775.00	309.98	187.85	127.79	84.89	70.76	9158.44 MCM

MOMENTARY PEAK 2694.60 CMS, AT 47.57 M (MSL), AT 21.00 HOURS, ON AUG 24, 1982

RUNOFF YIELD 41.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 384.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

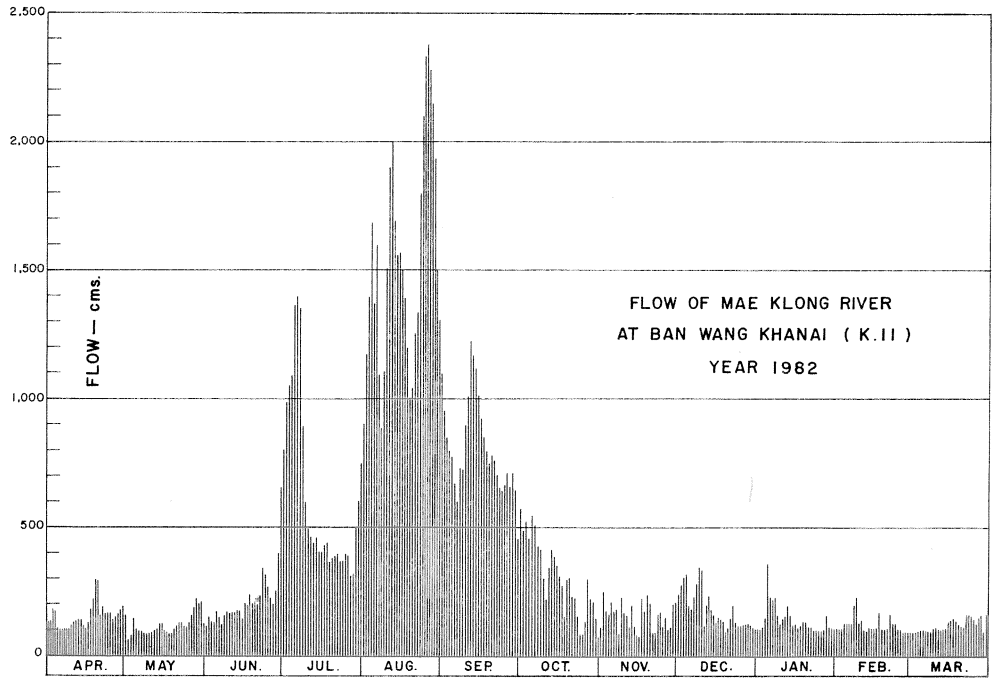
MAE KLONG RIVER AT BAN WANG KHANAI, KANCHANABURI (K.11)

LOCATION	LAT. 13°-56'-55" N., LONG. 99°-38'-42" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM AMPHOE THA MUANG OFFICE, AMPHOE THA MUANG, KANCHANABURI.
DRAINAGE AREA	26,449 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+11.928 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE GAGE LINE.
ELEVATION	+21.985 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1969, 1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1969, 1972 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. FLOW REGULATED BY VACHIRALONGKORN DIVERSION DAM FOR IRRIGATION OF ABOUT 419,520 HECTARES ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.22	12.31	12.16	14.59	14.77	15.07	13.86	12.10	12.58	12.08	12.09	12.05	
2	12.29	11.86	12.33	15.02	15.43	14.82	13.59	12.74	12.78	12.09	12.09	12.05	
3	12.45	12.01	12.25	15.19	16.08	14.54	13.72	12.49	12.94	12.08	12.13	12.05	
4	12.36	12.26	12.22	15.28	16.56	14.47	13.49	12.38	12.99	12.29	12.21	12.05	
5	12.11	12.14	12.43	15.89	15.93	14.39	13.65	12.56	12.56	13.14	12.20	12.07	
6	12.08	12.06	12.33	15.98	16.39	13.97	13.78	12.38	12.44	12.66	12.22	12.07	
7	12.08	12.04	12.20	15.90	15.34	14.30	13.50	12.45	12.61	12.60	12.19	12.06	
8	12.08	12.01	12.34	15.17	14.77	14.35	13.39	12.00	12.80	12.64	12.51	12.06	
9	12.09	12.00	12.41	14.51	15.36	14.33	13.36	12.67	13.12	12.43	12.71	12.07	
10	12.19	12.02	12.37	13.84	16.26	14.80	12.89	12.40	13.07	12.19	12.22	12.13	
11	12.22	12.03	12.41	13.59	16.95	15.34	12.62	12.35	12.14	12.33	12.26	12.12	
12	12.23	12.04	12.38	13.50	17.16	15.60	13.01	12.13	12.50	12.34	12.06	12.07	
13	12.28	12.12	12.45	13.44	16.64	15.40	13.36	12.54	12.67	12.53	12.03	12.09	
14	12.18	12.21	12.43	13.54	16.31	15.34	13.29	12.19	12.47	12.38	12.17	12.12	
15	12.11	12.20	12.28	13.33	16.34	15.04	13.19	12.00	12.37	12.19	12.10	12.09	
16	12.21	12.06	12.54	13.34	16.16	14.85	13.00	11.96	12.18	12.21	12.12	12.24	
17	12.36	12.02	12.53	13.40	15.93	14.63	12.85	12.71	12.34	12.08	12.15	12.27	
18	12.60	11.99	12.68	13.44	15.52	14.47	12.33	12.43	12.27	12.17	12.38	12.28	
19	12.52	12.02	12.54	13.20	15.09	14.38	12.91	12.68	12.24	12.25	12.08	12.22	
20	12.47	12.14	12.59	13.24	15.18	14.47	12.97	12.54	12.03	12.23	12.09	12.20	
21	12.37	12.20	12.53	13.31	15.67	14.39	12.68	12.05	12.16	12.14	12.10	12.10	
22	12.51	12.22	12.68	13.31	15.89	14.24	12.64	12.02	12.34	12.14	12.35	12.16	
23	12.37	12.18	13.12	13.22	16.37	14.11	12.38	12.34	12.53	12.06	12.20	12.37	
24	12.39	12.12	13.01	13.20	17.17	14.09	12.00	12.40	12.21	12.07	12.18	12.32	
25	12.37	12.17	12.83	13.29	17.75	14.16	11.98	12.14	12.14	12.07	12.08	12.31	
26	12.26	12.29	12.65	13.24	17.83	14.27	12.25	12.33	12.13	12.06	12.07	12.19	
27	12.32	12.45	12.54	12.98	17.64	14.13	12.96	12.09	12.17	12.06	12.05	12.27	
28	12.39	12.64	12.78	13.01	17.31	14.27	12.64	12.12	12.19	12.31	12.05	12.33	
29	12.41	12.54	13.29	13.46	16.93	14.04	12.59	12.18	12.20	12.14		12.09	
30	12.49	12.57	14.09	13.97	16.03	13.51	12.55	12.56	12.16	12.10		12.34	
31		12.22		14.37	15.61		11.93		12.08	12.09		12.29	
MEAN	12.30	12.17	12.58	13.96	16.21	14.53	12.95	12.33	12.43	12.26	12.18	12.17	
MAX	12.60	12.64	14.09	15.98	17.83	15.60	13.86	12.74	13.12	13.14	12.71	12.37	17.83
MIN	12.08	11.86	12.16	12.98	14.77	13.51	11.93	11.96	12.03	12.06	12.03	12.05	11.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 17.93 M (MSL), AT 8.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 11.93 M (MSL), RIVER BED 10.45 M (MSL)
LEFT BANK ELEVATION 21.56 M (MSL)
RIGHT BANK ELEVATION 22.90 M (MSL), DRAINAGE AREA 26449 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	164.2	183.1	151.6	836.5	899.5	1008.0	588.0	139.0	245.2	134.8	136.9	128.5	
2	178.9	88.6	187.3	988.0	1154.4	917.0	507.2	283.6	293.2	136.9	136.9	128.5	
3	214.0	120.1	170.5	1056.0	1449.6	819.0	546.0	223.6	331.6	134.8	145.3	128.5	
4	193.6	172.6	164.2	1092.4	1686.2	794.5	479.2	197.8	343.6	178.9	162.1	128.5	
5	141.1	147.4	209.2	1361.4	1379.8	766.5	525.0	240.4	240.4	383.8	160.0	132.7	
6	134.8	130.6	187.3	1402.8	1598.6	621.0	564.0	197.8	211.6	264.4	164.2	132.7	
7	134.8	126.4	160.0	1366.0	1116.7	735.0	482.0	214.0	252.4	250.0	157.9	130.6	
8	134.8	120.1	189.4	1048.0	899.5	752.5	451.3	118.0	298.0	259.6	228.4	130.6	
9	136.9	118.0	204.4	808.5	1124.8	745.5	443.2	266.8	378.4	209.2	276.4	132.7	
10	157.9	122.2	195.7	582.0	1531.8	910.0	319.6	202.0	364.9	157.9	164.2	145.3	
11	164.2	124.3	204.4	507.2	1889.0	1116.7	254.8	191.5	147.4	187.3	172.6	143.2	
12	166.3	126.4	197.8	482.0	1999.8	1230.0	348.7	145.3	226.0	189.4	130.6	132.7	
13	176.8	143.2	214.0	465.2	1727.8	1141.0	443.2	235.6	266.8	233.2	124.3	136.9	
14	155.8	162.1	209.2	493.2	1555.4	1116.7	424.3	157.9	218.8	197.8	153.7	143.2	
15	141.1	160.0	176.8	435.1	1571.6	996.0	397.3	118.0	195.7	157.9	139.0	136.9	
16	162.1	130.6	235.6	437.8	1486.3	927.5	346.0	109.6	155.8	162.1	143.2	168.4	
17	193.6	122.2	233.2	454.0	1379.8	850.5	310.0	276.4	189.4	134.8	149.5	174.7	
18	250.0	115.9	269.2	465.2	1194.4	794.5	187.3	209.2	174.7	153.7	197.8	176.8	
19	230.8	122.2	235.6	400.0	1016.0	763.0	324.4	269.2	168.4	170.5	134.8	164.2	
20	218.8	147.4	247.6	410.8	1052.0	794.5	338.8	235.6	124.3	166.3	136.9	160.0	
21	195.7	160.0	233.2	429.7	1261.5	766.5	269.2	128.5	151.6	147.4	139.0	139.0	
22	228.4	164.2	269.2	429.7	1361.4	714.0	259.6	122.2	189.4	147.4	191.5	151.6	
23	195.7	155.8	378.4	405.4	1587.8	668.5	197.8	189.4	233.2	130.6	160.0	195.7	
24	199.9	143.2	348.7	400.0	2005.1	661.5	118.0	202.0	162.1	132.7	155.8	185.2	
25	195.7	153.7	305.2	424.3	2331.0	686.0	113.8	147.4	147.4	132.7	134.8	183.1	
26	172.6	178.9	262.0	410.8	2377.4	724.5	170.5	187.3	145.3	130.6	132.7	157.9	
27	185.2	214.0	235.6	341.2	2267.8	675.5	336.4	136.9	153.7	130.6	128.5	174.7	
28	199.9	259.6	293.2	348.7	2081.6	724.5	259.6	143.2	157.9	183.1	128.5	187.3	
29	204.4	235.6	424.3	470.8	1878.6	644.0	247.6	155.8	160.0	147.4		136.9	
30	223.6	242.8	661.5	621.0	1426.1	484.8	238.0	240.4	151.6	139.0		189.4	
31		164.2		759.5	1234.5		103.3		134.8	136.9		178.9	
TOTAL	5451.6	4755.4	7454.3	20133.2	47525.8	24549.2	10594.1	5684.4	6613.6	5421.7	4385.5	4735.3	147304.1 CMSDAY
MEAN	181.7	153.4	248.5	649.5	1533.1	818.3	341.7	189.5	213.3	174.9	156.6	152.8	403.6 CMS
MAX	250.0	259.6	661.5	1402.8	2377.4	1230.0	588.0	283.6	378.4	383.8	276.4	195.7	2377.4 CMS
MIN	134.8	88.6	151.6	341.2	899.5	484.8	103.3	109.6	124.3	130.6	124.3	128.5	88.6 CMS
RUNOFF	471.02	410.87	644.05	1739.51	4106.23	2121.05	915.33	491.13	571.42	468.43	378.91	409.13	12727.08 MCM

MOMENTARY PEAK 2435.40 CMS, AT 17.93 M (MSL), AT 8.00 HOURS, ON AUG 26, 1982

RUNOFF YIELD 15.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 92.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

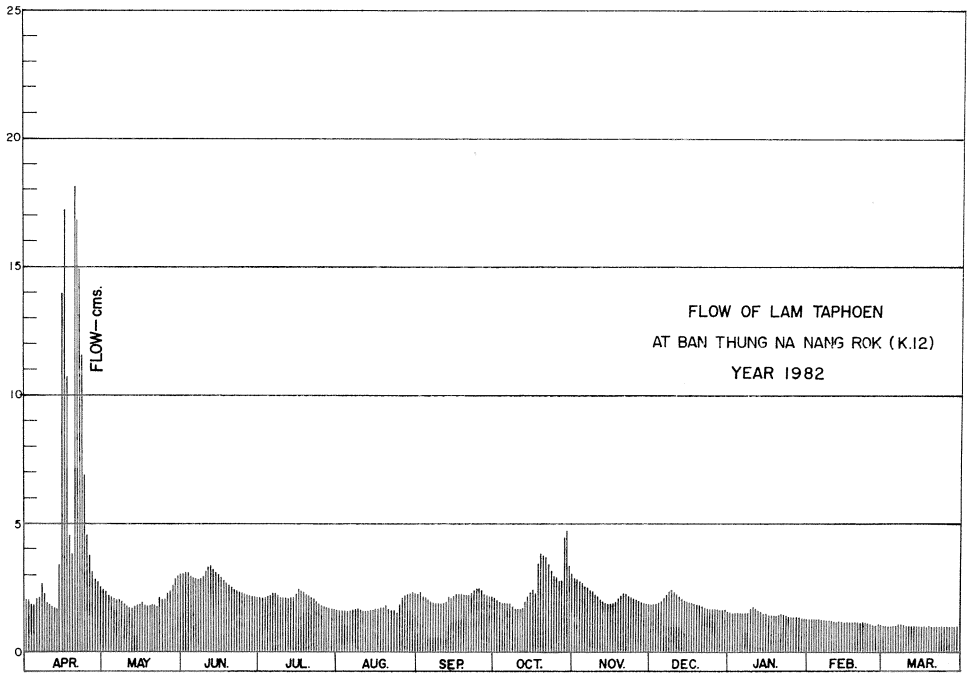
LAM TAPHOEN AT BAN THUNG NA NANG ROK, KANCHANABURI (K.12)

LOCATION	LAT. 14°-09'-15" N., LONG. 99°-25'-06" E., ON LEFT BANK ABOUT 50 METERS DOWNSTREAM FROM WAT THUNG NA NANG ROK, TAMBON LAT YA, AMPHOE MUANG, KANCHANABURI.
DRAINAGE AREA	2,340 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 8.00 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+8.930 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1968.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1968.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 161 DISCHARGE MEASUREMENTS MADE IN 1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	1.11	1.25	1.02	0.89	1.04	1.01	1.22	0.96	0.86	0.78	0.71	
2	0.96	1.08	1.27	1.02	0.90	1.07	1.00	1.22	0.96	0.86	0.78	0.70	
3	0.95	1.06	1.27	1.02	0.90	1.03	0.98	1.20	0.96	0.86	0.78	0.70	
4	0.95	1.04	1.23	1.03	0.90	1.02	0.96	1.16	0.96	0.85	0.77	0.70	
5	1.01	1.02	1.22	1.04	0.90	1.00	0.96	1.13	0.98	0.85	0.77	0.70	
6	1.02	1.01	1.20	1.06	0.90	0.98	0.95	1.12	1.01	0.84	0.77	0.70	
7	1.17	1.00	1.20	1.07	0.91	0.96	0.95	1.09	1.05	0.84	0.77	0.71	
8	1.03	1.00	1.21	1.06	0.92	0.96	0.94	1.08	1.08	0.85	0.76	0.71	
9	0.97	0.97	1.24	1.04	0.91	0.96	0.91	1.07	1.08	0.91	0.76	0.70	
10	0.97	0.97	1.26	1.01	0.89	0.96	0.90	1.04	1.08	0.93	0.76	0.70	
11	0.95	0.95	1.32	1.01	0.89	0.96	0.89	1.03	1.04	0.92	0.75	0.70	
12	0.94	0.92	1.32	1.01	0.89	0.96	0.91	0.98	1.02	0.90	0.75	0.69	
13	0.93	0.94	1.29	1.02	0.90	1.01	0.97	0.96	1.01	0.88	0.75	0.69	
14	1.41	0.94	1.26	1.02	0.90	1.00	1.04	0.96	1.00	0.87	0.75	0.69	
15	2.88	0.96	1.24	1.04	0.90	1.00	1.07	0.96	0.98	0.86	0.75	0.69	
16	3.31	0.98	1.23	1.10	0.91	1.04	1.09	0.97	0.97	0.86	0.74	0.69	
17	2.34	0.96	1.20	1.10	0.93	1.04	1.18	0.97	0.97	0.85	0.74	0.69	
18	1.53	0.94	1.17	1.08	0.92	1.04	1.34	1.02	0.96	0.84	0.74	0.69	
19	1.30	0.95	1.15	1.06	0.95	1.04	1.41	1.05	0.95	0.83	0.74	0.69	
20	3.42	0.97	1.12	1.04	0.92	1.03	1.40	1.06	0.94	0.84	0.74	0.69	
21	3.16	0.94	1.11	1.02	0.90	1.03	1.39	1.06	0.93	0.84	0.74	0.69	
22	2.82	0.94	1.09	1.02	0.90	1.06	1.33	1.04	0.92	0.84	0.74	0.69	
23	1.86	1.03	1.08	0.99	0.90	1.08	1.28	1.02	0.92	0.83	0.74	0.69	
24	1.61	1.00	1.07	0.95	0.82	1.10	1.23	1.01	0.92	0.82	0.74	0.69	
25	1.54	1.01	1.07	0.95	0.95	1.09	1.20	1.00	0.91	0.81	0.73	0.68	
26	1.33	1.06	1.06	0.94	1.03	1.09	1.16	0.98	0.90	0.80	0.71	0.68	
27	1.26	1.08	1.05	0.93	1.03	1.07	1.17	0.98	0.90	0.80	0.71	0.68	
28	1.20	1.13	1.04	0.93	1.04	1.04	1.55	0.97	0.90	0.80	0.71	0.68	
29	1.17	1.19	1.04	0.92	1.04	1.02	1.60	0.96	0.89	0.79		0.68	
30	1.13	1.24	1.04	0.92	1.06	1.02	1.34	0.96	0.89	0.79		0.68	
31		1.25		0.90	1.04		1.25		0.89	0.79		0.68	
MEAN	1.54	1.02	1.18	1.01	0.93	1.02	1.14	1.04	0.97	0.85	0.75	0.69	
MAX	3.42	1.25	1.32	1.10	1.06	1.10	1.60	1.22	1.08	0.93	0.78	0.71	3.42
MIN	0.93	0.92	1.04	0.90	0.82	0.96	0.89	0.96	0.89	0.79	0.71	0.68	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.00 M (A.D), AT 12.00 HOURS, ON APR 20, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.37 M (A.D)
LEFT BANK ELEVATION 8.93 M (A.D)
RIGHT BANK ELEVATION 6.25 M (A.D), DRAINAGE AREA 2340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.84	2.44	3.00	2.08	1.57	2.16	2.04	2.88	1.84	1.48	1.24	1.03	
2	1.84	2.32	3.08	2.08	1.60	2.28	2.00	2.88	1.84	1.48	1.24	1.00	
3	1.80	2.24	3.08	2.08	1.60	2.12	1.92	2.80	1.84	1.48	1.24	1.00	
4	1.80	2.16	2.92	2.12	1.60	2.08	1.84	2.64	1.84	1.45	1.21	1.00	
5	2.04	2.08	2.88	2.16	1.60	2.00	1.84	2.52	1.92	1.45	1.21	1.00	
6	2.08	2.04	2.80	2.24	1.60	1.92	1.80	2.48	2.04	1.42	1.21	1.00	
7	2.68	2.00	2.80	2.28	1.64	1.84	1.80	2.36	2.20	1.42	1.21	1.03	
8	2.12	2.00	2.84	2.24	1.68	1.84	1.76	2.32	2.32	1.45	1.18	1.03	
9	1.88	1.88	2.96	2.16	1.64	1.84	1.64	2.28	2.32	1.64	1.18	1.00	
10	1.88	1.88	3.04	2.04	1.57	1.84	1.60	2.16	2.32	1.72	1.18	1.00	
11	1.80	1.80	3.30	2.04	1.57	1.84	1.57	2.12	2.16	1.68	1.15	1.00	
12	1.76	1.68	3.30	2.04	1.57	1.84	1.64	1.92	2.08	1.60	1.15	0.97	
13	1.72	1.76	3.16	2.08	1.60	2.04	1.88	1.84	2.04	1.54	1.15	0.97	
14	3.75	1.76	3.04	2.08	1.60	2.00	2.16	1.84	2.00	1.51	1.15	0.97	
15	13.54	1.84	2.96	2.16	1.60	2.00	2.28	1.84	1.92	1.48	1.15	0.97	
16	17.13	1.92	2.92	2.40	1.64	2.16	2.36	1.88	1.88	1.48	1.12	0.97	
17	9.38	1.84	2.80	2.40	1.72	2.16	2.72	1.88	1.88	1.45	1.12	0.97	
18	4.35	1.76	2.68	2.32	1.68	2.16	3.40	2.08	1.84	1.42	1.12	0.97	
19	3.20	1.80	2.60	2.24	1.80	2.16	3.75	2.20	1.80	1.39	1.12	0.97	
20	18.08	1.88	2.48	2.16	1.68	2.12	3.70	2.24	1.76	1.42	1.12	0.97	
21	15.86	1.76	2.44	2.08	1.60	2.12	3.65	2.24	1.72	1.42	1.12	0.97	
22	13.06	1.76	2.36	2.08	1.60	2.24	3.35	2.16	1.68	1.42	1.12	0.97	
23	6.16	2.12	2.32	1.96	1.60	2.32	3.12	2.08	1.68	1.39	1.12	0.97	
24	4.75	2.00	2.28	1.80	1.36	2.40	2.92	2.04	1.68	1.36	1.12	0.97	
25	4.40	2.04	2.28	1.80	1.80	2.36	2.80	2.00	1.64	1.33	1.09	0.94	
26	3.35	2.24	2.24	1.76	2.12	2.36	2.64	1.92	1.60	1.30	1.03	0.94	
27	3.04	2.32	2.20	1.72	2.12	2.28	2.68	1.92	1.60	1.30	1.03	0.94	
28	2.80	2.52	2.16	1.72	2.16	2.16	4.45	1.88	1.60	1.30	1.03	0.94	
29	2.68	2.76	2.16	1.68	2.16	2.08	4.70	1.84	1.57	1.27		0.94	
30	2.52	2.96	2.16	1.68	2.24	2.08	3.40	1.84	1.57	1.27		0.94	
31		3.00		1.60	2.16		3.00		1.57	1.27		0.94	
TOTAL	153.29	64.56	81.24	63.28	53.48	62.80	80.41	65.08	57.75	44.59	32.11	30.28	788.87 CMSDAY
MEAN	5.11	2.08	2.71	2.04	1.73	2.09	2.59	2.17	1.86	1.44	1.15	0.98	2.16 CMS
MAX	18.08	3.00	3.30	2.40	2.24	2.40	4.70	2.88	2.32	1.72	1.24	1.03	18.08 CMS
MIN	1.72	1.68	2.16	1.60	1.36	1.84	1.57	1.84	1.57	1.27	1.03	0.94	0.94 CMS
RUNOFF	13.244	5.578	7.019	5.467	4.621	5.426	6.947	5.623	4.990	3.853	2.774	2.616	68.158 MCM

MOMENTARY PEAK 23.50 CMS, AT 4.00 M (A.D), AT 12.00 HOURS, ON APR 20, 1982
RUNOFF YIELD 0.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 10.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN.

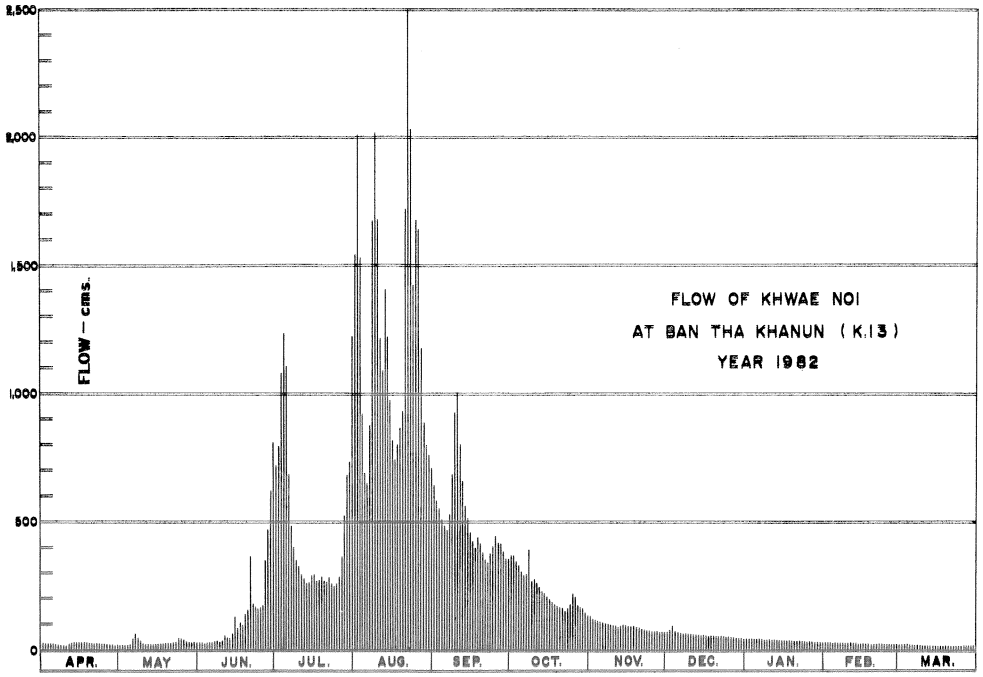
KHWAE NOI RIVER AT BAN THA KHANUN, KANCHANABURI (K.13)

LOCATION	LAT. 14°-43'-50" N., LONG. 98°-38'-32" E., ON RIGHT BANK AT POMPE VILLAGE, ABOUT 200 METERS DOWNSTREAM FROM WAT THA KHANUN, AMPHOE THONG PHA PHUM, KANCHANABURI.
DRAINAGE AREA	4,047 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+73.641 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE OBSERVER'S HOUSE.
ELEVATION	+97.165 M.(M.S.L.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965 - 1971, 1979.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965 - 1971, 1979.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 120 DISCHARGE MEASUREMENTS MADE IN 1971, 1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	75.77	75.59	75.84	81.83	85.94	81.34	79.41	77.28	76.51	76.15	75.95	75.79	
2	75.77	75.58	75.82	82.29	88.12	80.88	79.37	77.17	76.60	76.14	75.94	75.79	
3	75.77	75.58	75.79	83.63	86.35	80.68	79.16	77.11	76.82	76.13	75.93	75.78	
4	75.69	75.56	75.84	84.48	83.03	80.46	79.07	77.07	76.62	76.14	75.92	75.78	
5	75.67	75.56	75.88	83.96	81.63	80.25	78.88	77.04	76.51	76.17	75.92	75.77	
6	75.67	75.85	75.87	81.47	81.35	80.15	78.70	77.04	76.46	76.16	75.92	75.77	
7	75.66	76.40	75.93	80.16	83.03	80.59	78.76	76.99	76.45	76.13	75.91	75.77	
8	75.68	76.18	76.03	79.53	87.30	81.48	79.58	76.95	76.42	76.11	75.90	75.76	
9	75.70	76.04	75.93	79.23	88.16	82.84	78.53	76.91	76.41	76.10	75.90	75.76	
10	75.72	75.83	76.00	79.08	86.08	83.34	78.60	76.88	76.39	76.09	75.90	75.76	
11	75.71	75.69	76.32	78.76	84.33	82.40	78.52	76.86	76.37	76.09	75.89	75.75	
12	75.85	75.66	76.21	78.61	83.75	81.58	78.34	76.83	76.36	76.08	75.89	75.74	
13	75.92	75.65	76.17	78.48	85.33	81.01	78.20	76.87	76.35	76.07	75.88	75.74	
14	75.93	75.68	76.41	78.50	84.42	80.58	78.08	76.96	76.33	76.06	75.87	75.73	
15	75.92	75.71	77.25	78.72	82.90	80.18	77.99	76.86	76.31	76.05	75.87	75.73	
16	75.94	75.73	76.69	78.72	82.19	79.85	77.90	76.82	76.31	76.05	75.86	75.72	
17	75.86	75.75	77.01	78.54	81.90	79.65	77.80	76.78	76.29	76.04	75.86	75.72	
18	75.85	75.77	76.89	78.55	82.40	79.92	77.71	76.84	76.28	76.04	75.85	75.71	
19	75.82	75.80	77.39	78.70	82.75	79.78	77.66	76.76	76.27	76.03	75.85	75.71	
20	75.78	75.83	77.56	78.54	83.05	79.58	77.60	76.76	76.25	76.03	75.85	75.70	
21	75.77	75.86	79.36	78.51	86.83	79.29	77.67	76.70	76.24	76.02	75.84	75.70	
22	75.75	75.84	77.76	78.65	90.35	79.11	77.44	76.67	76.23	76.01	75.84	75.69	
23	75.73	75.86	77.66	78.47	88.71	79.52	77.54	76.64	76.23	76.00	75.83	75.69	
24	75.69	76.13	77.52	78.41	85.43	79.71	77.70	76.60	76.22	75.99	75.83	75.69	
25	75.67	76.16	77.64	78.48	86.60	79.99	78.08	76.59	76.21	75.98	75.82	75.68	
26	75.65	76.05	77.66	78.69	86.37	79.79	78.03	76.57	76.20	75.98	75.82	75.68	
27	75.62	75.98	79.55	79.49	84.25	79.76	77.68	76.55	76.19	75.97	75.81	75.67	
28	75.61	75.90	80.32	80.61	82.84	79.42	77.61	76.53	76.18	75.96	75.80	75.67	
29	75.60	75.93	81.49	81.56	82.28	79.24	77.55	76.53	76.17	75.96		75.66	
30	75.59	75.87	82.28	81.91	82.06	79.26	77.39	76.50	76.16	75.96		75.66	
31		75.86		84.16	81.78		77.29		76.15	75.96		75.66	
MEAN	75.75	75.83	77.27	80.02	84.56	80.39	78.19	76.82	76.34	76.05	75.87	75.72	
MAX	75.94	76.40	82.28	84.48	90.35	83.34	79.58	77.28	76.82	76.17	75.95	75.79	90.35
MIN	75.59	75.56	75.79	78.41	81.35	79.11	77.29	76.50	76.15	75.96	75.80	75.66	75.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 90.49 M (MSL), AT 15.00 HOURS, ON AUG 22, 1982
ZERO GAGE AT BOTTOM ELEVATION 73.64 M (MSL), RIVER BED 74.73 M (MSL)
LEFT BANK ELEVATION 95.14 M (MSL)
RIGHT BANK ELEVATION 96.80 M (MSL), DRAINAGE AREA 4047 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	18.8	11.7	22.0	726.1	1529.8	643.4	365.7	128.0	64.7	39.5	27.5	19.6	
2	18.8	11.4	21.0	808.2	2001.6	569.8	361.0	117.3	71.0	38.8	27.0	19.6	
3	18.8	11.4	19.6	1058.0	1618.2	538.0	336.1	111.9	86.6	38.1	26.5	19.2	
4	15.6	10.8	22.0	1228.0	941.4	505.0	325.4	108.3	72.4	38.8	26.0	19.2	
5	14.8	10.8	24.0	1124.0	692.1	473.5	302.8	105.6	64.7	40.9	26.0	18.8	
6	14.8	22.5	23.5	664.9	645.0	459.0	281.5	105.6	61.2	40.2	26.0	18.8	
7	14.4	57.0	26.5	460.4	941.4	524.5	288.6	101.1	60.5	38.1	25.5	18.8	
8	15.2	41.6	31.8	380.0	1823.0	666.6	385.9	97.5	58.4	36.7	25.0	18.4	
9	16.0	32.4	26.5	344.4	2010.8	907.2	261.3	93.9	57.7	36.0	25.0	18.4	
10	16.8	21.5	30.0	326.6	1559.9	1000.0	269.6	91.4	56.3	35.4	25.0	18.4	
11	16.4	15.6	51.4	288.6	1198.0	828.0	260.1	89.8	54.9	35.4	24.5	18.0	
12	22.5	14.4	43.7	270.8	1082.0	683.6	238.7	87.4	54.2	34.8	24.5	17.6	
13	26.0	14.0	40.9	255.4	1400.3	590.6	223.0	90.6	53.5	34.2	24.0	17.6	
14	26.5	15.2	57.7	257.7	1216.0	523.0	209.8	98.4	52.1	33.6	23.5	17.2	
15	26.0	16.4	125.0	283.8	918.0	463.2	199.9	89.8	50.7	33.0	23.5	17.2	
16	27.0	17.2	77.3	283.8	790.2	418.5	190.0	86.6	50.7	33.0	23.0	16.8	
17	23.0	18.0	102.9	262.5	738.0	394.2	180.0	83.6	49.3	32.4	23.0	16.8	
18	22.5	18.8	92.2	263.7	828.0	427.6	171.0	88.2	48.6	32.4	22.5	16.4	
19	21.0	20.0	139.0	281.5	891.0	409.6	166.0	82.2	47.9	31.8	22.5	16.4	
20	19.2	21.5	156.0	262.5	945.0	385.9	160.0	82.2	46.5	31.8	22.5	16.0	
21	18.8	23.0	359.8	258.9	1721.7	351.5	167.0	78.0	45.8	31.2	22.0	16.0	
22	18.0	22.0	176.0	275.5	2514.5	330.1	144.0	75.9	45.1	30.6	22.0	15.6	
23	17.2	23.0	166.0	254.2	2137.3	378.8	154.0	73.8	45.1	30.0	21.5	15.6	
24	15.6	38.1	152.0	247.1	1421.3	401.3	170.0	71.0	44.4	29.5	21.5	15.6	
25	14.8	40.2	164.0	255.4	1672.1	436.7	209.8	70.3	43.7	29.0	21.0	15.2	
26	14.0	33.0	166.0	280.3	1622.5	410.8	204.3	68.9	43.0	29.0	21.0	15.2	
27	12.8	29.0	382.3	375.2	1182.0	407.3	168.0	67.5	42.3	28.5	20.5	14.8	
28	12.4	25.0	484.0	527.5	907.2	366.9	161.0	66.1	41.6	28.0	20.0	14.8	
29	12.0	26.5	668.3	680.2	806.4	345.5	155.0	66.1	40.9	28.0		14.4	
30	11.7	23.5	806.4	739.8	766.8	347.9	139.0	64.0	40.2	28.0		14.4	
31		23.0		1164.0	717.6		129.0		39.5	28.0		14.4	
TOTAL	541.4	708.5	4657.8	14889.0	39239.1	15188.0	6977.5	2641.0	1633.5	1034.7	662.5	525.2	88698.2 CMSDAY
MEAN	18.0	22.9	155.3	480.3	1265.8	506.3	225.1	88.0	52.7	33.4	23.7	16.9	243.0 CMS
MAX	27.0	57.0	806.4	1228.0	2514.5	1000.0	385.9	128.0	86.6	40.9	27.5	19.6	2514.5 CMS
MIN	11.7	10.8	19.6	247.1	645.0	330.1	129.0	64.0	39.5	28.0	20.0	14.4	10.8 CMS
RUNOFF	46.78	61.21	402.43	1286.41	3390.26	1312.24	602.86	228.18	141.13	89.40	57.24	45.38	7663.53 MCM

MOMENTARY PEAK 2546.70 CMS, AT 90.49 M (MSL), AT 15.00 HOURS, ON AUG 22, 1982

RUNOFF YIELD 60.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 629.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

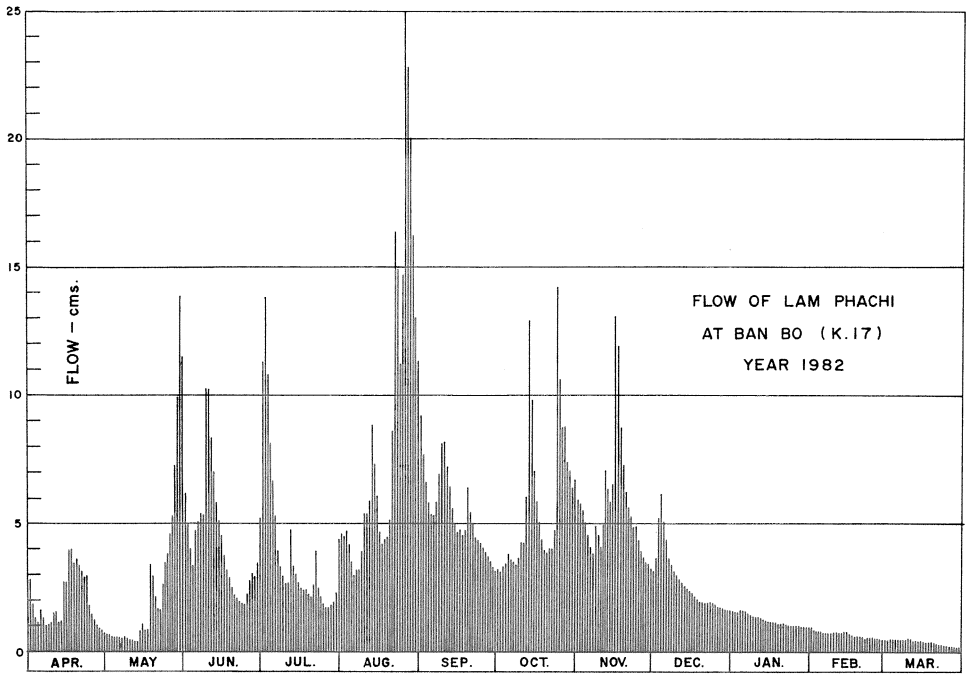
LAM PHACHI AT BAN BO KHEM, RATCHABURI (K.17)

LOCATION	LAT. 13°-32'-41" N., LONG. 99°-21'-22" E., ON LEFT BANK OPPOSITE TO THE 'SAI NGAM' FRONTIER POLICE STATION, TAMBON SUAN PHUNG, AMPHOE CHOM BUNG, RATCHABURI.
DRAINAGE AREA	1,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG THE MEASURING LINE.
ELEVATION	+11.799 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.10	0.75	1.10	0.57	0.98	0.43	0.70	0.42	0.24	0.14	0.05	
2	0.28	0.09	0.58	1.29	0.56	0.86	0.42	0.69	0.50	0.24	0.12	0.04	
3	0.22	0.08	0.49	1.07	0.58	0.77	0.44	0.66	0.63	0.24	0.12	0.05	
4	0.18	0.07	0.44	0.94	0.53	0.69	0.45	0.61	0.71	0.24	0.12	0.05	
5	0.26	0.07	0.58	0.75	0.46	0.64	0.49	0.58	0.62	0.25	0.12	0.05	
6	0.21	0.07	0.62	0.62	0.41	0.64	0.46	0.52	0.52	0.24	0.11	0.05	
7	0.16	0.06	0.65	0.51	0.43	0.72	0.46	0.49	0.47	0.24	0.10	0.05	
8	0.17	0.07	0.64	0.44	0.43	0.79	0.44	0.60	0.44	0.23	0.10	0.05	
9	0.18	0.06	1.05	0.40	0.52	0.89	0.48	0.57	0.42	0.22	0.10	0.05	
10	0.24	0.05	1.05	0.37	0.65	0.90	0.53	0.51	0.40	0.22	0.11	0.06	
11	0.24	0.05	0.93	0.37	0.65	0.83	0.53	0.62	0.38	0.22	0.11	0.06	
12	0.19	0.04	0.79	0.58	0.71	0.75	0.72	0.80	0.37	0.21	0.10	0.05	
13	0.19	0.03	0.70	0.44	0.95	0.67	1.23	0.74	0.36	0.21	0.10	0.04	
14	0.38	0.12	0.63	0.41	0.82	0.61	1.03	0.69	0.34	0.20	0.10	0.04	
15	0.37	0.17	0.54	0.38	0.68	0.57	0.81	0.76	0.34	0.19	0.12	0.05	
16	0.50	0.12	0.48	0.36	0.57	0.58	0.70	1.24	0.33	0.19	0.09	0.04	
17	0.51	0.13	0.43	0.34	0.52	0.56	0.62	1.17	0.31	0.19	0.09	0.03	
18	0.45	0.49	0.40	0.35	0.55	0.58	0.55	0.95	0.30	0.18	0.08	0.02	
19	0.47	0.40	0.37	0.32	0.56	0.74	0.50	0.83	0.29	0.18	0.08	0.03	
20	0.44	0.32	0.32	0.31	0.66	0.67	0.49	0.74	0.29	0.17	0.08	0.02	
21	0.42	0.26	0.30	0.39	0.96	0.61	0.51	0.68	0.28	0.18	0.07	0.02	
22	0.39	0.25	0.29	0.50	1.43	0.55	0.51	0.62	0.28	0.17	0.06	0.01	
23	0.30	0.36	0.27	0.35	1.33	0.54	0.60	0.59	0.28	0.16	0.07	0.00	
24	0.27	0.46	0.27	0.31	1.12	0.53	1.31	0.59	0.28	0.16	0.07	0.00	
25	0.24	0.50	0.33	0.28	1.37	0.51	1.10	0.53	0.27	0.16	0.07	0.00	
26	0.21	0.60	0.39	0.26	2.16	0.48	0.91	0.49	0.27	0.16	0.06	0.00	
27	0.17	0.66	0.41	0.26	1.77	0.47	0.94	0.47	0.26	0.16	0.06	-0.01	
28	0.15	0.93	0.40	0.28	1.56	0.45	0.83	0.46	0.26	0.15	0.06	-0.01	
29	0.13	1.14	0.45	0.29	1.34	0.43	0.80	0.44	0.25	0.15		-0.02	
30	0.11	1.29	0.66	0.31	1.21	0.42	0.74	0.43	0.25	0.15		-0.02	
31		1.08		0.55	1.15		0.77		0.25	0.14		-0.03	
MEAN	0.28	0.33	0.54	0.49	0.88	0.65	0.67	0.66	0.37	0.19	0.09	0.03	
MAX	0.51	1.29	1.05	1.29	2.16	0.98	1.31	1.24	0.71	0.25	0.14	0.06	2.16
MIN	0.11	0.03	0.27	0.26	0.41	0.42	0.42	0.43	0.25	0.14	0.06	-0.03	-0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.36 M (A.D), AT 1.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.19 M (A.D)
LEFT BANK ELEVATION 11.70 M (A.D)
RIGHT BANK ELEVATION 7.23 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.81	0.70	6.45	10.90	4.60	9.24	3.20	5.90	3.10	1.52	0.90	0.45	
2	1.84	0.65	4.70	13.84	4.50	7.72	3.10	5.80	3.90	1.52	0.80	0.40	
3	1.36	0.60	3.80	10.48	4.70	6.67	3.30	5.50	5.20	1.52	0.80	0.45	
4	1.10	0.55	3.30	8.72	4.20	5.80	3.40	5.00	6.01	1.52	0.80	0.45	
5	1.68	0.55	4.70	6.45	3.50	5.30	3.80	4.70	5.10	1.60	0.80	0.45	
6	1.28	0.55	5.10	5.10	3.00	5.30	3.50	4.10	4.10	1.52	0.75	0.45	
7	1.00	0.50	5.40	4.00	3.20	6.12	3.50	3.80	3.60	1.52	0.70	0.45	
8	1.05	0.55	5.30	3.30	3.20	6.89	3.30	4.90	3.30	1.44	0.70	0.45	
9	1.10	0.50	10.20	2.90	4.10	8.08	3.70	4.60	3.10	1.36	0.70	0.45	
10	1.52	0.45	10.20	2.63	5.40	8.20	4.20	4.00	2.90	1.36	0.75	0.50	
11	1.52	0.45	8.59	2.63	5.40	7.36	4.20	5.10	2.72	1.36	0.75	0.50	
12	1.15	0.40	6.89	4.70	6.01	6.45	6.12	7.00	2.63	1.28	0.70	0.45	
13	1.15	0.35	5.90	3.30	8.85	5.60	12.88	6.34	2.54	1.28	0.70	0.40	
14	2.72	0.80	5.20	3.00	7.24	5.00	9.92	5.80	2.36	1.20	0.70	0.40	
15	2.63	1.05	4.30	2.72	5.70	4.60	7.12	6.56	2.36	1.15	0.80	0.45	
16	3.90	0.80	3.70	2.54	4.60	4.70	5.90	13.04	2.27	1.15	0.65	0.40	
17	4.00	0.85	3.20	2.36	4.10	4.50	5.10	11.95	2.09	1.15	0.65	0.35	
18	3.40	3.80	2.90	2.45	4.40	4.70	4.40	8.85	2.00	1.10	0.60	0.30	
19	3.60	2.90	2.63	2.18	4.50	6.34	3.90	7.36	1.92	1.10	0.60	0.35	
20	3.30	2.18	2.18	2.09	5.50	5.60	3.80	6.34	1.92	1.05	0.60	0.30	
21	3.10	1.68	2.00	2.81	8.98	5.00	4.00	5.70	1.84	1.10	0.55	0.30	
22	2.81	1.60	1.92	3.90	16.37	4.40	4.00	5.10	1.84	1.05	0.50	0.25	
23	2.00	2.54	1.76	2.45	14.54	4.30	4.90	4.80	1.84	1.00	0.55	0.20	
24	1.76	3.50	1.76	2.09	11.20	4.20	14.18	4.80	1.84	1.00	0.55	0.20	
25	1.52	3.90	2.27	1.84	15.26	4.00	10.90	4.20	1.76	1.00	0.55	0.20	
26	1.28	4.90	2.81	1.68	35.28	3.70	8.33	3.80	1.76	1.00	0.50	0.20	
27	1.05	5.50	3.00	1.68	23.65	3.60	8.72	3.60	1.68	1.00	0.50	0.18	
28	0.95	8.59	2.90	1.84	18.90	3.40	7.36	3.50	1.68	0.95	0.50	0.18	
29	0.85	11.50	3.40	1.92	14.72	3.20	7.00	3.30	1.60	0.95		0.16	
30	0.75	13.84	5.50	2.09	12.56	3.10	6.34	3.20	1.60	0.95		0.16	
31		10.62		4.40	11.65		6.67		1.60	0.90		0.14	
TOTAL	58.18	87.35	131.96	122.99	279.81	163.07	180.74	168.64	82.16	37.60	18.65	10.57	1341.72 CMSDAY
MEAN	1.94	2.82	4.40	3.97	9.03	5.44	5.83	5.62	2.65	1.21	0.67	0.34	3.68 CMS
MAX	4.00	13.84	10.20	13.84	35.28	9.24	14.18	13.04	6.01	1.60	0.90	0.50	35.28 CMS
MIN	0.75	0.35	1.76	1.68	3.00	3.10	3.10	3.20	1.60	0.90	0.50	0.14	0.14 CMS
RUNOFF	5.027	7.547	11.401	10.626	24.176	14.089	15.616	14.570	7.099	3.249	1.611	0.913	115.925 MCM

MOMENTARY PEAK 42.40 CMS, AT 2.36 M (A.D), AT 1.00 HOURS, ON AUG 26, 1982
RUNOFF YIELD 2.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 31.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

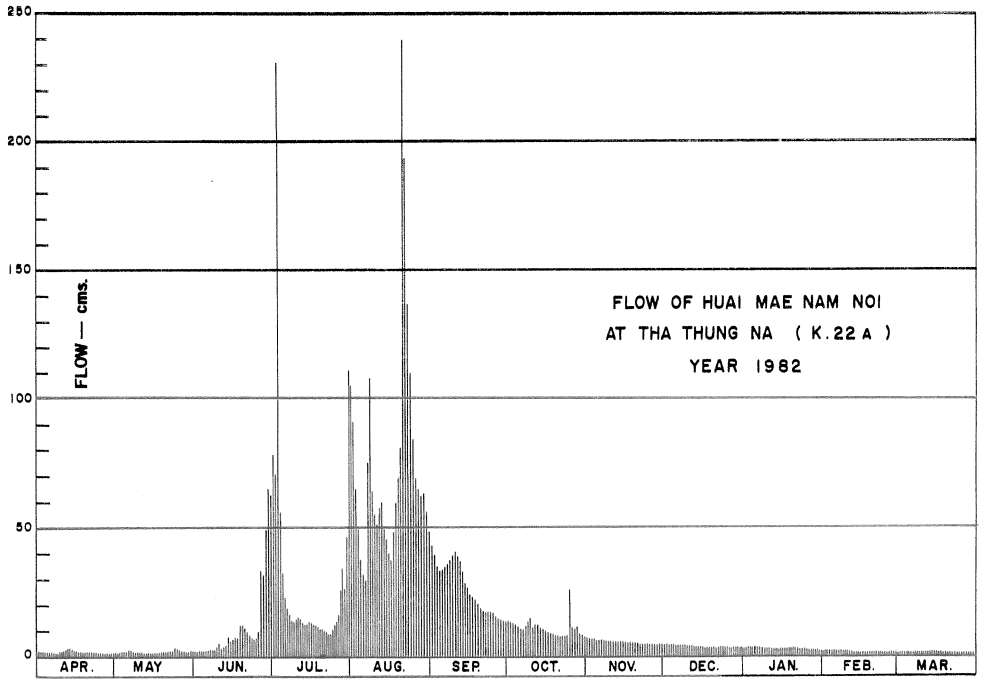
HUAI MAE NAM NOI AT BAN THA THUNG NA, KANCHANABURI (K.22A)

LOCATION	LAT. 14°-26'-44" N., LONG. 98°-48'-08" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM K.22 STATION, TAMBON THA THUNG NA, AMPHOE SAI YOK, KANCHANABURI.
DRAINAGE AREA	321 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+66.70 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE METEOROLOGICAL STATION.
ELEVATION	+76.874 M. (M.S.L.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +71.60 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 104 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.34	67.30	67.36	70.29	70.86	69.20	68.02	67.68	67.51	67.43	67.35	67.31	
2	67.34	67.30	67.35	70.06	70.38	69.13	68.01	67.67	67.51	67.43	67.35	67.31	
3	67.33	67.30	67.36	72.81	69.61	68.94	67.94	67.65	67.51	67.42	67.35	67.30	
4	67.33	67.30	67.35	69.85	69.13	68.87	67.92	67.64	67.50	67.42	67.35	67.30	
5	67.33	67.32	67.34	68.94	68.81	68.83	67.91	67.64	67.49	67.43	67.35	67.30	
6	67.32	67.37	67.38	68.51	68.74	68.89	67.86	67.63	67.48	67.43	67.35	67.30	
7	67.32	67.37	67.41	68.27	70.17	68.92	67.85	67.62	67.48	67.42	67.34	67.30	
8	67.32	67.35	67.38	68.13	71.00	68.95	68.00	67.61	67.48	67.41	67.34	67.30	
9	67.31	67.33	67.37	68.04	70.13	69.01	68.07	67.60	67.48	67.41	67.34	67.30	
10	67.33	67.32	67.54	67.98	69.62	69.10	67.92	67.59	67.47	67.41	67.34	67.30	
11	67.35	67.31	67.45	68.10	69.45	69.05	67.98	67.61	67.47	67.41	67.34	67.30	
12	67.41	67.31	67.46	68.07	69.63	69.01	67.95	67.58	67.47	67.41	67.33	67.30	
13	67.45	67.30	67.51	67.99	69.76	68.83	67.92	67.59	67.46	67.40	67.33	67.30	
14	67.38	67.30	67.71	67.95	69.42	68.72	67.87	67.58	67.46	67.40	67.33	67.29	
15	67.36	67.31	67.59	68.01	69.14	68.60	67.83	67.58	67.46	67.39	67.33	67.29	
16	67.36	67.31	67.63	68.02	69.02	68.54	67.80	67.57	67.45	67.39	67.33	67.29	
17	67.34	67.31	67.69	67.99	69.34	68.46	67.78	67.57	67.45	67.40	67.33	67.29	
18	67.33	67.31	67.66	67.96	69.60	68.42	67.76	67.57	67.45	67.40	67.32	67.28	
19	67.33	67.31	67.96	67.92	70.00	68.35	67.74	67.56	67.45	67.41	67.32	67.28	
20	67.33	67.32	67.94	67.86	70.36	68.29	67.74	67.54	67.45	67.41	67.32	67.28	
21	67.35	67.37	67.82	67.85	72.90	68.26	67.73	67.53	67.45	67.40	67.32	67.28	
22	67.33	67.37	67.72	67.82	71.81	68.20	67.73	67.53	67.45	67.40	67.32	67.28	
23	67.33	67.35	67.69	67.77	71.27	68.20	67.71	67.53	67.44	67.39	67.32	67.28	
24	67.32	67.46	67.68	67.77	70.90	68.22	67.79	67.53	67.44	67.38	67.32	67.28	
25	67.31	67.42	67.65	67.90	70.39	68.17	68.58	67.53	67.44	67.38	67.32	67.27	
26	67.31	67.38	67.88	68.00	70.00	68.12	67.90	67.52	67.44	67.37	67.31	67.27	
27	67.31	67.37	68.85	68.20	69.86	68.11	67.85	67.52	67.43	67.37	67.31	67.27	
28	67.31	67.36	68.76	68.88	69.80	68.06	67.93	67.51	67.43	67.37	67.31	67.27	
29	67.31	67.35	69.90	68.59	69.84	68.04	67.78	67.51	67.43	67.36		67.27	
30	67.31	67.34	69.82	69.03	69.61	68.04	67.74	67.51	67.43	67.35		67.27	
31		67.37		71.07	69.39		67.71		67.43	67.35		67.27	
MEAN	67.34	67.34	67.81	68.57	70.00	68.58	67.88	67.58	67.46	67.40	67.33	67.29	
MAX	67.45	67.46	69.90	72.81	72.90	69.20	68.58	67.68	67.51	67.43	67.35	67.31	72.90
MIN	67.31	67.30	67.34	67.77	68.74	68.04	67.71	67.51	67.43	67.35	67.31	67.27	67.27

ANNUAL MAX MOMENTARY GAGE HEIGHT 74.75 M (MSL), AT 12.00 HOURS, ON JUL 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 66.70 M (MSL), RIVER BED 66.70 M (MSL)
LEFT BANK ELEVATION 72.56 M (MSL)
RIGHT BANK ELEVATION 71.60 M (MSL), DRAINAGE AREA 321 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.00	1.40	2.30	79.04	102.12	43.50	13.68	7.37	4.57	3.35	2.15	1.55	
2	2.00	1.40	2.15	70.90	82.28	41.40	13.49	7.21	4.57	3.35	2.15	1.55	
3	1.85	1.40	2.30	231.00	56.02	35.86	12.16	6.88	4.57	3.20	2.15	1.40	
4	1.85	1.40	2.15	63.75	41.40	33.89	11.78	6.71	4.40	3.20	2.15	1.40	
5	1.85	1.70	2.00	35.86	32.27	32.81	11.59	6.71	4.25	3.35	2.15	1.40	
6	1.70	2.45	2.60	24.65	30.44	34.43	10.64	6.54	4.10	3.35	2.15	1.40	
7	1.70	2.45	3.05	18.81	74.75	35.28	10.45	6.38	4.10	3.20	2.00	1.40	
8	1.70	2.15	2.60	15.80	108.00	36.15	13.30	6.22	4.10	3.05	2.00	1.40	
9	1.55	1.85	2.45	14.06	73.35	37.89	14.63	6.05	4.10	3.05	2.00	1.40	
10	1.85	1.70	5.06	12.92	56.34	40.50	11.78	5.88	3.95	3.05	2.00	1.40	
11	2.15	1.55	3.65	15.20	51.00	39.05	12.92	6.22	3.95	3.05	2.00	1.40	
12	3.05	1.55	3.80	14.63	56.66	37.89	12.35	5.72	3.95	3.05	1.85	1.40	
13	3.65	1.40	4.57	13.11	60.82	32.81	11.78	5.88	3.80	2.90	1.85	1.40	
14	2.60	1.40	7.88	12.35	50.10	29.92	10.83	5.72	3.80	2.90	1.85	1.26	
15	2.30	1.55	5.88	13.49	41.70	26.90	10.07	5.72	3.80	2.75	1.85	1.26	
16	2.30	1.55	6.54	13.68	38.18	25.40	9.50	5.56	3.65	2.75	1.85	1.26	
17	2.00	1.55	7.54	13.11	47.70	23.40	9.14	5.56	3.65	2.90	1.85	1.26	
18	1.85	1.55	7.04	12.54	55.70	22.40	8.78	5.56	3.65	2.90	1.70	1.12	
19	1.85	1.55	12.54	11.78	68.80	20.70	8.42	5.39	3.65	3.05	1.70	1.12	
20	1.85	1.70	12.16	10.64	81.56	19.27	8.42	5.06	3.65	3.05	1.70	1.12	
21	2.15	2.45	9.88	10.45	239.10	18.58	8.24	4.89	3.65	2.90	1.70	1.12	
22	1.85	2.45	8.06	9.88	153.67	17.20	8.24	4.89	3.65	2.90	1.70	1.12	
23	1.85	2.15	7.54	8.96	122.04	17.20	7.88	4.89	3.50	2.75	1.70	1.12	
24	1.70	3.80	7.37	8.96	103.80	17.66	9.32	4.89	3.50	2.60	1.70	1.12	
25	1.55	3.20	6.88	11.40	82.64	16.60	26.40	4.89	3.50	2.60	1.70	0.98	
26	1.55	2.60	11.02	13.30	68.80	15.60	11.40	4.73	3.50	2.45	1.55	0.98	
27	1.55	2.45	33.35	17.20	64.08	15.40	10.45	4.73	3.35	2.45	1.55	0.98	
28	1.55	2.30	30.96	34.16	62.10	14.44	11.97	4.57	3.35	2.45	1.55	0.98	
29	1.55	2.15	65.40	26.65	63.42	14.06	9.14	4.57	3.35	2.30		0.98	
30	1.55	2.00	62.76	38.47	56.02	14.06	8.42	4.57	3.35	2.15		0.98	
31		2.45		111.78	49.20		7.88		3.35	2.15		0.98	
TOTAL	58.50	61.25	341.48	988.53	2274.06	810.25	345.05	169.96	118.31	89.15	52.25	38.24	5347.03 CMSDAY
MEAN	1.95	1.98	11.38	31.89	73.36	27.01	11.13	5.67	3.82	2.88	1.87	1.23	14.65 CMS
MAX	3.65	3.80	65.40	231.00	239.10	43.50	26.40	7.37	4.57	3.35	2.15	1.55	239.10 CMS
MIN	1.55	1.40	2.00	8.96	30.44	14.06	7.88	4.57	3.35	2.15	1.55	0.98	0.98 CMS
RUNOFF	5.054	5.292	29.504	85.409	196.479	70.006	29.812	14.685	10.222	7.703	4.514	3.304	461.983 MCM

MOMENTARY PEAK 438.50 CMS, AT 74.75 M (MSL), AT 12.00 HOURS, ON JUL 3, 1982

RUNOFF YIELD 45.64 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1366.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

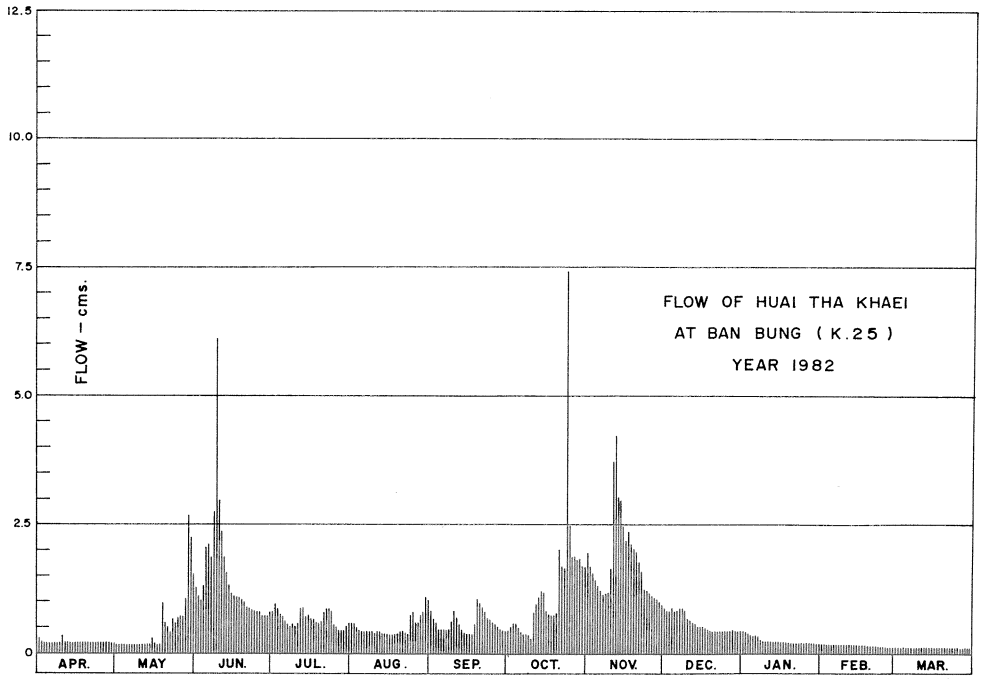
HUAI THA KHAEI AT BAN BUNG, RATCHABURI (K.25)

LOCATION	LAT. 13°-25'-42" N., LONG. 99°-24'-25" E., ON LEFT BANK AT BAN BUNG, TAMBON SUAN PHUNG, AMPHOE SUAN PHUNG, RATCHABURI.
DRAINAGE AREA	508 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.00 M.(A.D.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 - 1970, 1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 98 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.41	1.38	1.57	1.48	1.45	1.48	1.43	1.73	1.49	1.43	1.38	1.35	
2	1.40	1.38	1.53	1.50	1.45	1.46	1.44	1.68	1.48	1.43	1.38	1.35	
3	1.39	1.38	1.51	1.49	1.44	1.45	1.45	1.63	1.48	1.42	1.38	1.35	
4	1.39	1.38	1.60	1.47	1.43	1.43	1.45	1.61	1.49	1.42	1.38	1.35	
5	1.39	1.38	1.76	1.47	1.43	1.43	1.44	1.59	1.48	1.41	1.38	1.35	
6	1.39	1.38	1.77	1.46	1.43	1.43	1.42	1.56	1.48	1.41	1.38	1.35	
7	1.39	1.38	1.72	1.45	1.43	1.43	1.42	1.54	1.49	1.41	1.38	1.35	
8	1.39	1.38	1.87	1.44	1.43	1.43	1.42	1.55	1.49	1.40	1.38	1.35	
9	1.40	1.38	2.33	1.45	1.43	1.46	1.42	1.55	1.48	1.40	1.38	1.35	
10	1.42	1.38	1.96	1.44	1.43	1.48	1.41	1.68	1.46	1.40	1.38	1.35	
11	1.40	1.38	1.83	1.45	1.42	1.46	1.48	2.07	1.46	1.40	1.37	1.35	
12	1.40	1.38	1.72	1.49	1.43	1.44	1.51	2.12	1.45	1.40	1.37	1.35	
13	1.40	1.38	1.65	1.49	1.42	1.43	1.53	1.94	1.45	1.40	1.37	1.35	
14	1.40	1.38	1.59	1.47	1.42	1.42	1.56	1.93	1.44	1.40	1.37	1.35	
15	1.40	1.41	1.55	1.47	1.42	1.42	1.55	1.84	1.44	1.40	1.37	1.35	
16	1.40	1.39	1.54	1.46	1.42	1.42	1.48	1.78	1.44	1.39	1.37	1.35	
17	1.40	1.38	1.53	1.46	1.42	1.42	1.47	1.82	1.44	1.39	1.37	1.35	
18	1.40	1.39	1.53	1.45	1.42	1.45	1.47	1.77	1.43	1.39	1.37	1.35	
19	1.40	1.50	1.52	1.45	1.42	1.51	1.47	1.75	1.43	1.39	1.37	1.35	
20	1.40	1.45	1.50	1.45	1.43	1.50	1.48	1.74	1.43	1.39	1.37	1.35	
21	1.39	1.44	1.49	1.48	1.43	1.49	1.75	1.69	1.43	1.39	1.37	1.35	
22	1.39	1.42	1.49	1.49	1.43	1.48	1.67	1.66	1.43	1.39	1.37	1.35	
23	1.39	1.46	1.48	1.49	1.42	1.46	1.67	1.57	1.43	1.39	1.36	1.35	
24	1.39	1.45	1.48	1.48	1.47	1.46	2.44	1.57	1.43	1.39	1.36	1.35	
25	1.39	1.46	1.48	1.45	1.48	1.45	1.84	1.55	1.43	1.39	1.35	1.35	
26	1.39	1.47	1.48	1.44	1.45	1.44	1.71	1.53	1.43	1.39	1.35	1.34	
27	1.39	1.47	1.47	1.43	1.45	1.44	1.72	1.53	1.43	1.39	1.35	1.34	
28	1.39	1.56	1.47	1.43	1.47	1.43	1.70	1.52	1.43	1.39	1.35	1.34	
29	1.39	1.89	1.47	1.43	1.48	1.43	1.71	1.51	1.43	1.39		1.34	
30	1.39	1.84	1.48	1.44	1.53	1.43	1.67	1.50	1.43	1.39		1.34	
31		1.64		1.45	1.52		1.67		1.43	1.39		1.34	
MEAN	1.40	1.45	1.61	1.46	1.44	1.45	1.58	1.68	1.45	1.40	1.37	1.35	
MAX	1.42	1.89	2.33	1.50	1.53	1.51	2.44	2.12	1.49	1.43	1.38	1.35	2.44
MIN	1.39	1.38	1.47	1.43	1.42	1.42	1.41	1.50	1.43	1.39	1.35	1.34	1.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.90 M (A.D), AT 6.00 HOURS, ON OCT 24, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.19 M (A.D)
LEFT BANK ELEVATION 7.50 M (A.D)
RIGHT BANK ELEVATION 7.55 M (A.D), DRAINAGE AREA 508 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.27	0.16	1.23	0.80	0.58	0.80	0.42	1.91	0.88	0.42	0.16	0.10	
2	0.20	0.16	1.07	0.95	0.58	0.65	0.50	1.68	0.80	0.42	0.16	0.10	
3	0.18	0.16	0.99	0.88	0.50	0.58	0.58	1.47	0.80	0.35	0.16	0.10	
4	0.18	0.16	1.35	0.73	0.42	0.42	0.58	1.39	0.88	0.35	0.16	0.10	
5	0.18	0.16	2.05	0.73	0.42	0.42	0.50	1.31	0.80	0.27	0.16	0.10	
6	0.18	0.16	2.10	0.65	0.42	0.42	0.35	1.19	0.80	0.27	0.16	0.10	
7	0.18	0.16	1.86	0.58	0.42	0.42	0.35	1.11	0.88	0.27	0.16	0.10	
8	0.18	0.16	2.61	0.50	0.42	0.42	0.35	1.15	0.88	0.20	0.16	0.10	
9	0.20	0.16	6.11	0.58	0.42	0.65	0.35	1.15	0.80	0.20	0.16	0.10	
10	0.35	0.16	3.14	0.50	0.42	0.80	0.27	1.68	0.65	0.20	0.16	0.10	
11	0.20	0.16	2.41	0.58	0.35	0.65	0.80	3.85	0.65	0.20	0.14	0.10	
12	0.20	0.16	1.86	0.88	0.42	0.50	0.99	4.21	0.58	0.20	0.14	0.10	
13	0.20	0.16	1.55	0.88	0.35	0.42	1.07	3.02	0.58	0.20	0.14	0.10	
14	0.20	0.16	1.31	0.73	0.35	0.35	1.19	2.96	0.50	0.20	0.14	0.10	
15	0.20	0.27	1.15	0.73	0.35	0.35	1.15	2.46	0.50	0.20	0.14	0.10	
16	0.20	0.18	1.11	0.65	0.35	0.35	0.80	2.15	0.50	0.18	0.14	0.10	
17	0.20	0.16	1.07	0.65	0.35	0.35	0.73	2.35	0.50	0.18	0.14	0.10	
18	0.20	0.18	1.07	0.58	0.35	0.58	0.73	2.10	0.42	0.18	0.14	0.10	
19	0.20	0.95	1.03	0.58	0.35	0.99	0.73	2.01	0.42	0.18	0.14	0.10	
20	0.20	0.58	0.95	0.58	0.42	0.95	0.80	1.96	0.42	0.18	0.14	0.10	
21	0.18	0.50	0.88	0.80	0.42	0.88	2.01	1.72	0.42	0.18	0.14	0.10	
22	0.18	0.35	0.88	0.88	0.42	0.80	1.64	1.60	0.42	0.18	0.14	0.10	
23	0.18	0.65	0.80	0.88	0.35	0.65	1.64	1.23	0.42	0.18	0.12	0.10	
24	0.18	0.58	0.80	0.80	0.73	0.65	7.40	1.23	0.42	0.18	0.12	0.10	
25	0.18	0.65	0.80	0.58	0.80	0.58	2.46	1.15	0.42	0.18	0.10	0.10	
26	0.18	0.73	0.80	0.50	0.58	0.50	1.81	1.07	0.42	0.18	0.10	0.08	
27	0.18	0.73	0.73	0.42	0.58	0.50	1.86	1.07	0.42	0.18	0.10	0.08	
28	0.18	1.19	0.73	0.42	0.73	0.42	1.76	1.03	0.42	0.18	0.10	0.08	
29	0.18	2.72	0.73	0.42	0.80	0.42	1.81	0.99	0.42	0.18		0.08	
30	0.18	2.46	0.80	0.50	1.07	0.42	1.64	0.95	0.42	0.18		0.08	
31		1.51		0.58	1.03		1.64		0.42	0.18		0.08	
TOTAL	5.90	16.63	43.97	20.52	15.75	16.89	38.91	53.15	17.86	6.83	3.92	2.98	243.31 CMSDAY
MEAN	0.20	0.54	1.47	0.66	0.51	0.56	1.26	1.77	0.58	0.22	0.14	0.10	0.67 CMS
MAX	0.35	2.72	6.11	0.95	1.07	0.99	7.40	4.21	0.88	0.42	0.16	0.10	7.40 CMS
MIN	0.18	0.16	0.73	0.42	0.35	0.35	0.27	0.95	0.42	0.18	0.10	0.08	0.08 CMS
RUNOFF	0.510	1.437	3.799	1.773	1.361	1.459	3.362	4.592	1.543	0.590	0.339	0.257	21.022 MCM

MOMENTARY PEAK 16.15 CMS, AT 2.90 M (A.D), AT 6.00 HOURS, ON OCT 24, 1982

RUNOFF YIELD 1.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 31.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

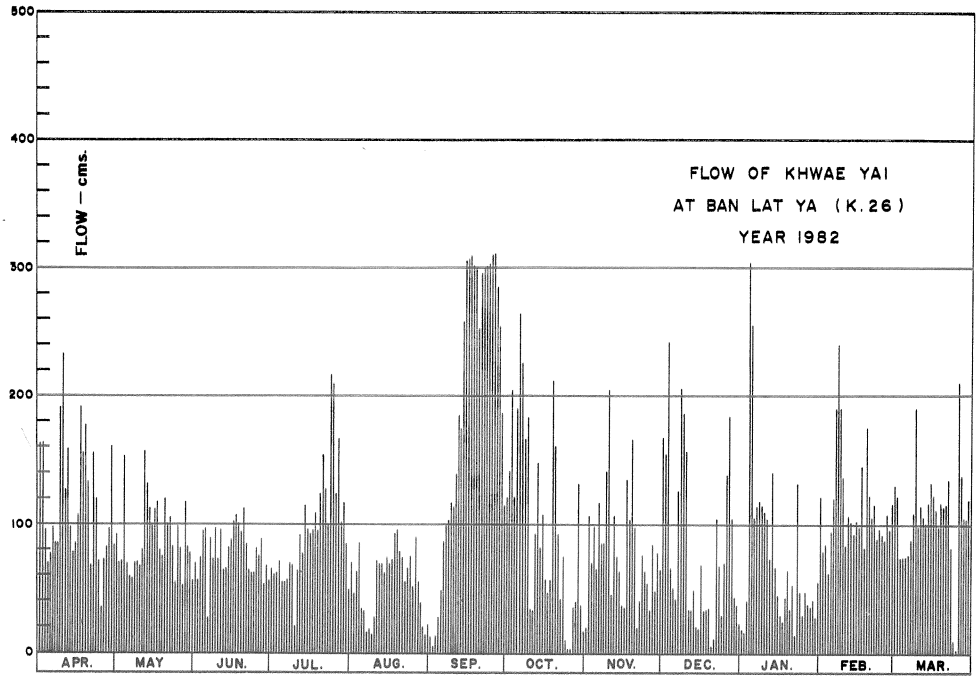
KHWAE YAI RIVER AT BAN LAT YA, KANCHANABURI (K.26)

LOCATION	LAT. 14°-05'-36" N., LONG. 99°-25'-08" E., ON LEFT BANK ABOUT 400 METERS DOWNSTREAM FROM WAT LAT YA, AT BAN LAT YA, TAMBON LAT YA, AMPHOE MUANG, KANCHANABURI.
DRAINAGE AREA	14,479 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+13.922 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.36	1.70	1.41	1.34	1.42	0.41	2.00	0.60	2.40	0.52	2.01	2.09	
2	2.37	1.40	1.22	1.28	1.01	0.33	2.19	1.85	2.30	0.49	1.54	2.01	
3	1.82	1.45	1.48	1.30	1.27	0.42	2.68	1.41	2.94	0.95	1.61	1.47	
4	1.38	2.29	1.72	1.44	1.62	0.94	2.01	1.75	1.39	3.38	1.29	1.47	
5	1.50	1.44	1.75	1.20	0.84	1.09	2.77	1.34	1.14	3.16	1.77	1.48	
6	1.75	1.26	0.72	1.20	0.79	1.61	3.09	1.96	1.00	1.84	2.00	1.51	
7	1.62	1.24	1.66	1.23	0.49	1.75	2.75	1.61	2.06	1.95	2.43	1.61	
8	1.62	1.43	1.42	1.43	0.56	1.82	2.39	1.61	2.69	1.98	2.94	1.77	
9	2.59	1.43	1.73	1.39	0.45	2.15	2.52	2.26	2.57	1.94	2.50	2.58	
10	2.88	1.39	1.46	0.57	0.71	2.10	0.82	2.68	2.45	1.89	2.10	1.76	
11	2.06	1.57	1.73	1.21	1.44	2.18	0.80	1.05	0.85	1.82	1.60	1.93	
12	2.33	2.32	1.33	1.70	1.40	2.54	1.64	1.86	0.82	1.47	1.86	1.85	
13	1.75	2.09	1.35	1.50	1.40	2.46	2.98	1.49	1.14	2.19	1.80	1.80	
14	1.52	1.95	1.56	1.94	1.32	3.08	1.58	1.33	0.57	1.41	1.70	1.96	
15	1.65	1.77	1.64	1.75	1.49	3.38	1.86	0.88	0.53	1.08	1.83	2.11	
16	1.90	1.90	1.79	1.69	1.40	3.41	1.22	0.87	1.39	0.74	1.75	2.03	
17	2.59	1.96	1.86	1.72	1.47	3.43	1.06	2.14	0.81	0.67	2.22	1.92	
18	2.31	1.55	1.79	1.89	1.71	3.36	1.22	1.83	0.82	1.00	1.58	1.76	
19	2.48	1.50	1.72	1.75	1.73	3.34	2.73	2.38	0.86	1.32	2.47	1.97	
20	2.21	1.99	1.92	1.98	1.54	3.02	2.40	2.10	0.27	0.86	2.01	1.92	
21	1.39	1.79	1.61	2.30	1.48	3.32	1.58	0.55	0.39	1.16	1.84	1.95	
22	2.31	1.84	1.32	2.00	1.20	3.35	0.99	1.10	1.82	0.43	1.94	2.14	
23	2.02	1.46	1.30	1.78	1.36	3.36	1.49	1.50	1.40	2.10	1.65	1.77	
24	1.31	1.20	1.30	2.77	1.49	3.36	0.44	1.32	0.73	1.07	1.75	1.97	
25	0.84	1.76	1.57	2.72	1.09	3.42	0.26	1.18	1.41	0.94	1.72	2.61	
26	1.45	1.54	1.49	2.03	1.67	3.43	0.24	0.82	2.13	1.09	1.64	2.72	
27	1.61	1.17	1.65	2.40	1.30	2.52	0.87	1.59	2.53	0.93	1.87	2.17	
28	1.73	1.96	1.18	1.81	1.02	3.10	0.97	1.08	1.79	0.88	1.73	1.83	
29	2.35	1.52	1.39	1.95	0.52	2.64	2.10	1.52	1.00	0.99		1.83	
30	1.61	1.51	1.21	1.79	0.44	1.94	0.98	1.34	0.90	0.72		1.99	
31		1.21		1.09	0.60		0.47		0.64	1.13		2.50	
MEAN	1.91	1.63	1.51	1.68	1.17	2.44	1.65	1.50	1.41	1.36	1.90	1.95	
MAX	2.88	2.32	1.92	2.77	1.73	3.43	3.09	2.68	2.94	3.38	2.94	2.72	3.43
MIN	0.84	1.17	0.72	0.57	0.44	0.33	0.24	0.55	0.27	0.43	1.29	1.47	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.00 M (A.D), AT 18.00 HOURS, ON SEP 20, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.45 M (A.D)
LEFT BANK ELEVATION 13.98 M (A.D)
RIGHT BANK ELEVATION 6.35 M (A.D), DRAINAGE AREA 14479 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	162.00	92.00	68.75	63.80	69.50	11.97	120.50	20.83	167.00	17.10	121.55	129.95	
2	163.25	68.00	55.40	59.60	42.60	4.01	141.35	105.75	154.50	15.70	78.70	121.55	
3	102.90	71.75	74.00	61.00	58.90	12.43	203.80	68.75	241.00	39.00	84.35	73.25	
4	66.60	153.30	93.80	71.00	85.20	38.40	121.55	96.50	67.30	303.96	60.30	73.25	
5	75.50	71.00	96.50	54.00	33.42	47.40	216.30	63.80	50.40	273.35	98.30	74.00	
6	96.50	58.20	26.74	54.00	31.08	84.35	263.50	116.50	42.00	104.80	120.50	76.30	
7	85.20	56.80	88.60	56.10	15.70	96.50	213.50	84.35	126.80	115.50	170.90	84.35	
8	85.20	70.25	69.50	70.25	18.97	102.90	165.75	84.35	205.15	118.50	241.00	98.30	
9	191.70	70.25	94.70	67.30	13.83	136.75	182.60	149.70	189.10	114.50	180.00	190.40	
10	232.10	67.30	72.50	19.43	26.12	131.00	32.56	203.80	173.50	109.55	131.00	97.40	
11	126.80	81.10	94.70	54.70	71.00	140.20	31.70	45.00	33.85	102.90	83.50	113.50	
12	158.25	157.00	63.10	92.00	68.00	185.20	86.90	106.70	32.56	73.25	106.70	105.75	
13	96.50	129.95	64.50	75.50	68.00	174.80	247.00	74.75	50.40	141.35	101.00	101.00	
14	77.10	115.50	80.30	114.50	62.40	262.00	81.90	63.10	19.43	68.75	92.00	116.50	
15	87.75	98.30	86.90	96.50	74.75	303.96	106.70	35.14	17.57	46.80	103.85	132.15	
16	110.50	110.50	100.10	91.15	68.00	308.13	55.40	34.71	67.30	27.98	96.50	123.65	
17	191.70	116.50	106.70	93.80	73.25	310.91	45.60	135.60	32.13	24.10	144.90	112.50	
18	155.75	79.50	100.10	109.55	92.90	301.17	55.40	103.85	32.56	42.00	81.90	97.40	
19	177.40	75.50	93.80	96.50	94.70	298.39	210.70	164.50	34.28	62.40	176.10	117.50	
20	143.70	119.50	112.50	118.50	78.70	253.00	167.00	131.00	1.13	34.28	121.55	112.50	
21	67.30	100.10	84.35	154.50	74.00	295.61	81.90	18.50	10.43	51.60	104.80	115.50	
22	155.75	104.80	62.40	120.50	54.00	299.78	41.40	48.00	102.90	12.90	114.50	135.60	
23	122.60	72.50	61.00	99.20	65.20	301.17	74.75	75.50	68.00	131.00	87.75	98.30	
24	61.70	54.00	61.00	216.30	74.75	301.17	13.37	62.40	27.36	46.20	96.50	117.50	
25	33.42	97.40	81.10	209.30	47.40	309.52	1.24	52.80	68.75	38.40	93.80	194.35	
26	71.75	78.70	74.75	123.65	89.45	310.91	1.46	32.56	134.45	47.40	86.90	209.30	
27	84.35	52.20	87.75	167.00	61.00	182.60	34.71	82.70	183.90	37.80	107.65	139.05	
28	94.70	116.50	52.80	101.95	43.20	265.00	40.20	46.80	100.10	35.14	94.70	103.85	
29	160.75	77.10	67.30	115.50	17.10	198.40	131.00	77.10	42.00	41.40		103.85	
30	84.35	76.30	54.70	100.10	13.37	114.50	40.80	63.80	36.00	26.74		119.50	
31		54.70		47.40	20.83		14.77		22.70	49.80		180.00	
TOTAL	3523.07	2746.50	2330.34	2974.58	1707.32	5782.13	3225.31	2448.84	2534.55	2354.15	3181.20	3668.00	36475.99 CMSDAY
MEAN	117.44	88.60	77.68	95.95	55.07	192.74	104.04	81.63	81.76	75.94	113.61	118.32	99.93 CMS
MAX	232.10	157.00	112.50	216.30	94.70	310.91	263.50	203.80	241.00	303.96	241.00	209.30	310.91 CMS
MIN	33.42	52.20	26.74	19.43	13.37	4.01	1.24	18.50	1.13	12.90	60.30	73.25	1.13 CMS
RUNOFF	304.393	237.298	201.341	257.004	147.512	499.576	278.667	211.580	218.985	203.399	274.856	316.915	3151.526 MCM

MOMENTARY PEAK 599.00 CMS, AT 5.00 M (A.D), AT 18.00 HOURS, ON SEP 20, 1982
RUNOFF YIELD 6.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 41.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

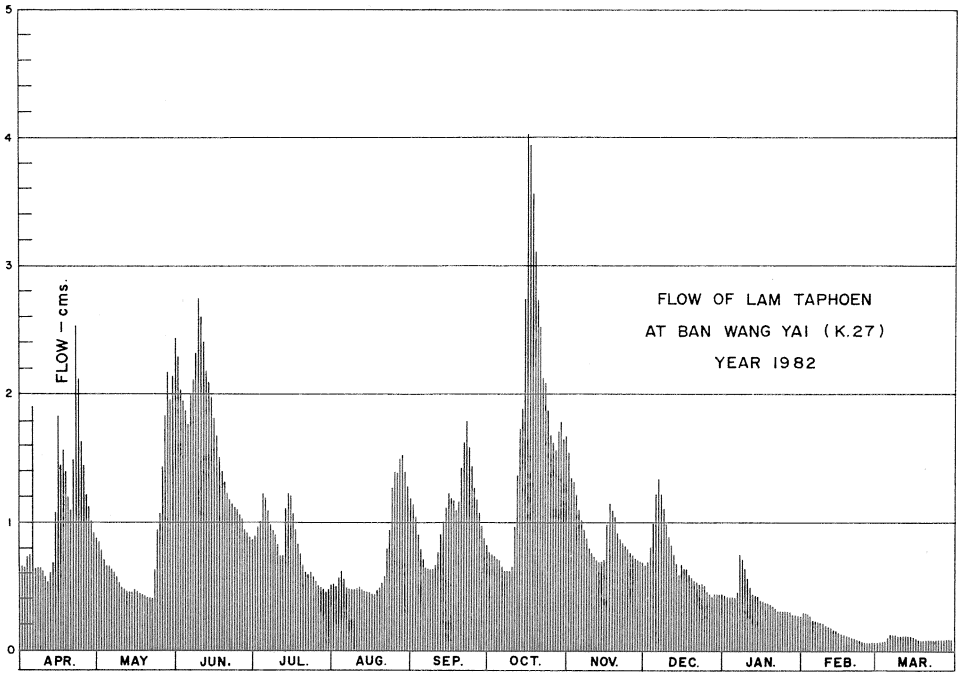
LAM TAPHOEN AT BAN WANG YAI, KANCHANABURI (K.27)

LOCATION	LAT. 14°-20'-14" N., LONG. 99°-29'-22" E., ON LEFT BANK ABOUT 3 KILOMETERS UPSTREAM FROM BAN LAT YA, AMPHOE BO PHLOI, KANCHANABURI.
DRAINAGE AREA	1,921 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	IN THE VICINITY OF METEOROLOGICAL STATION.
ELEVATION	+6.250 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.06	1.14	1.65	1.15	1.00	1.26	1.10	1.40	1.06	0.95	0.88	0.69	
2	1.06	1.12	1.57	1.18	0.99	1.22	1.09	1.33	1.08	0.95	0.88	0.69	
3	1.09	1.08	1.54	1.20	1.02	1.16	1.09	1.31	1.13	0.95	0.87	0.68	
4	1.10	1.06	1.51	1.28	1.04	1.12	1.08	1.26	1.20	0.95	0.85	0.68	
5	1.52	1.06	1.47	1.27	1.02	1.08	1.08	1.23	1.28	0.94	0.84	0.73	
6	1.05	1.05	1.56	1.24	0.99	1.06	1.06	1.20	1.32	0.97	0.84	0.75	
7	1.06	1.04	1.60	1.19	0.98	1.05	1.04	1.17	1.28	1.09	0.83	0.74	
8	1.06	1.03	1.67	1.17	0.98	1.05	1.04	1.14	1.24	1.08	0.83	0.74	
9	1.04	1.01	1.79	1.15	0.98	1.05	1.04	1.12	1.18	1.04	0.82	0.74	
10	1.02	0.99	1.74	1.12	0.98	1.08	1.06	1.10	1.15	1.01	0.81	0.74	
11	1.01	0.98	1.67	1.09	0.99	1.12	1.20	1.09	1.13	0.98	0.80	0.74	
12	1.06	0.97	1.62	1.09	0.98	1.16	1.36	1.07	1.10	0.96	0.79	0.74	
13	1.09	0.97	1.59	1.23	0.97	1.21	1.46	1.07	1.06	0.95	0.78	0.74	
14	1.26	0.97	1.54	1.28	0.97	1.25	1.54	1.07	1.03	0.95	0.77	0.74	
15	1.50	0.98	1.49	1.27	0.97	1.28	1.84	1.08	1.06	0.93	0.76	0.73	
16	1.36	0.97	1.44	1.23	0.96	1.27	2.16	1.19	1.05	0.93	0.76	0.72	
17	1.40	0.96	1.39	1.16	0.96	1.26	2.13	1.25	1.05	0.92	0.75	0.71	
18	1.35	0.96	1.36	1.13	0.97	1.23	1.99	1.23	1.03	0.92	0.74	0.71	
19	1.27	0.95	1.32	1.10	0.98	1.27	1.88	1.20	1.02	0.92	0.73	0.70	
20	1.23	0.95	1.29	1.06	1.00	1.35	1.78	1.16	1.01	0.91	0.72	0.70	
21	1.37	0.94	1.26	1.04	1.03	1.43	1.68	1.14	1.01	0.90	0.72	0.70	
22	1.72	0.94	1.25	1.03	1.12	1.48	1.59	1.13	1.00	0.89	0.71	0.70	
23	1.62	1.08	1.24	1.04	1.18	1.43	1.58	1.12	1.00	0.89	0.70	0.71	
24	1.45	1.19	1.23	1.02	1.30	1.37	1.47	1.11	1.00	0.89	0.70	0.71	
25	1.36	1.24	1.21	1.01	1.34	1.31	1.44	1.10	0.97	0.89	0.69	0.71	
26	1.28	1.39	1.20	0.99	1.34	1.26	1.42	1.09	0.96	0.89	0.69	0.71	
27	1.24	1.56	1.17	0.99	1.38	1.22	1.40	1.08	0.95	0.88	0.69	0.71	
28	1.20	1.61	1.16	0.98	1.39	1.18	1.46	1.08	0.96	0.87	0.69	0.71	
29	1.16	1.54	1.15	0.97	1.35	1.15	1.48	1.07	0.96	0.87		0.71	
30	1.15	1.60	1.14	0.98	1.31	1.13	1.43	1.07	0.96	0.87		0.71	
31		1.69		1.00	1.27		1.44		0.96	0.86		0.71	
MEAN	1.24	1.13	1.43	1.12	1.09	1.22	1.43	1.16	1.07	0.94	0.77	0.72	
MAX	1.72	1.69	1.79	1.28	1.39	1.48	2.16	1.40	1.32	1.09	0.88	0.75	2.16
MIN	1.01	0.94	1.14	0.97	0.96	1.05	1.04	1.07	0.95	0.86	0.69	0.68	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.47 M (A.D), AT 5.00 HOURS, ON APR 5, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.54 M (A.D)
LEFT BANK ELEVATION 6.76 M (A.D)
RIGHT BANK ELEVATION 7.65 M (A.D), DRAINAGE AREA 1921 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.85	2.29	0.88	0.51	1.17	0.75	1.55	0.65	0.42	0.29	0.06	
2	0.65	0.80	2.04	0.96	0.49	1.06	0.73	1.35	0.70	0.42	0.29	0.06	
3	0.73	0.70	1.95	1.01	0.56	0.91	0.73	1.30	0.83	0.42	0.28	0.06	
4	0.75	0.65	1.86	1.22	0.61	0.80	0.70	1.17	1.01	0.42	0.25	0.06	
5	1.89	0.65	1.75	1.19	0.56	0.70	0.70	1.09	1.22	0.40	0.23	0.10	
6	0.63	0.63	2.01	1.11	0.49	0.65	0.65	1.01	1.33	0.45	0.23	0.12	
7	0.65	0.61	2.13	0.98	0.47	0.63	0.61	0.93	1.22	0.73	0.21	0.11	
8	0.65	0.58	2.36	0.93	0.47	0.63	0.61	0.85	1.11	0.70	0.21	0.11	
9	0.61	0.53	2.74	0.88	0.47	0.63	0.61	0.80	0.96	0.61	0.20	0.11	
10	0.56	0.49	2.58	0.80	0.47	0.70	0.65	0.75	0.88	0.53	0.18	0.11	
11	0.53	0.47	2.36	0.73	0.49	0.80	1.01	0.73	0.83	0.47	0.17	0.11	
12	0.65	0.45	2.19	0.73	0.47	0.91	1.44	0.68	0.75	0.43	0.16	0.11	
13	0.73	0.45	2.10	1.09	0.45	1.04	1.72	0.68	0.65	0.42	0.15	0.11	
14	1.17	0.45	1.95	1.22	0.45	1.14	1.95	0.68	0.58	0.42	0.14	0.11	
15	1.83	0.47	1.80	1.19	0.45	1.22	2.91	0.70	0.65	0.38	0.13	0.10	
16	1.44	0.45	1.66	1.09	0.43	1.19	4.01	0.98	0.63	0.38	0.13	0.09	
17	1.55	0.43	1.52	0.91	0.43	1.17	3.91	1.14	0.63	0.36	0.12	0.08	
18	1.41	0.43	1.44	0.83	0.45	1.09	3.42	1.09	0.58	0.36	0.11	0.08	
19	1.19	0.42	1.33	0.75	0.47	1.19	3.04	1.01	0.56	0.36	0.10	0.07	
20	1.09	0.42	1.24	0.65	0.51	1.41	2.71	0.91	0.53	0.34	0.09	0.07	
21	1.47	0.40	1.17	0.61	0.58	1.63	2.39	0.85	0.53	0.32	0.09	0.07	
22	2.52	0.40	1.14	0.58	0.80	1.77	2.10	0.83	0.51	0.31	0.08	0.07	
23	2.19	0.70	1.11	0.61	0.96	1.63	2.07	0.80	0.51	0.31	0.07	0.08	
24	1.69	0.98	1.09	0.56	1.27	1.47	1.75	0.78	0.51	0.31	0.07	0.08	
25	1.44	1.11	1.04	0.53	1.38	1.30	1.66	0.75	0.45	0.31	0.06	0.08	
26	1.22	1.52	1.01	0.49	1.38	1.17	1.61	0.73	0.43	0.31	0.06	0.08	
27	1.11	2.01	0.93	0.49	1.49	1.06	1.55	0.70	0.42	0.29	0.06	0.08	
28	1.01	2.16	0.91	0.47	1.52	0.96	1.72	0.70	0.43	0.28	0.06	0.08	
29	0.91	1.95	0.88	0.45	1.41	0.88	1.77	0.68	0.43	0.28		0.08	
30	0.88	2.13	0.85	0.47	1.30	0.83	1.63	0.68	0.43	0.28		0.08	
31		2.42		0.51	1.19		1.66		0.43	0.26		0.08	
TOTAL	33.80	26.71	49.43	24.92	22.98	31.74	52.77	26.90	21.38	12.28	4.22	2.69	309.82 CMSDAY
MEAN	1.13	0.86	1.65	0.80	0.74	1.06	1.70	0.90	0.69	0.40	0.15	0.09	0.85 CMS
MAX	2.52	2.42	2.74	1.22	1.52	1.77	4.01	1.55	1.33	0.73	0.29	0.12	4.01 CMS
MIN	0.53	0.40	0.85	0.45	0.43	0.63	0.61	0.68	0.42	0.26	0.06	0.06	0.06 CMS
RUNOFF	2.920	2.308	4.271	2.153	1.985	2.742	4.559	2.324	1.847	1.061	0.365	0.232	26.768 MCM

MOMENTARY PEAK 5.13 CMS, AT 2.47 M (A.D), AT 5.00 HOURS, ON APR 5, 1982

RUNOFF YIELD 0.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

MAE KLONG RIVER BASIN

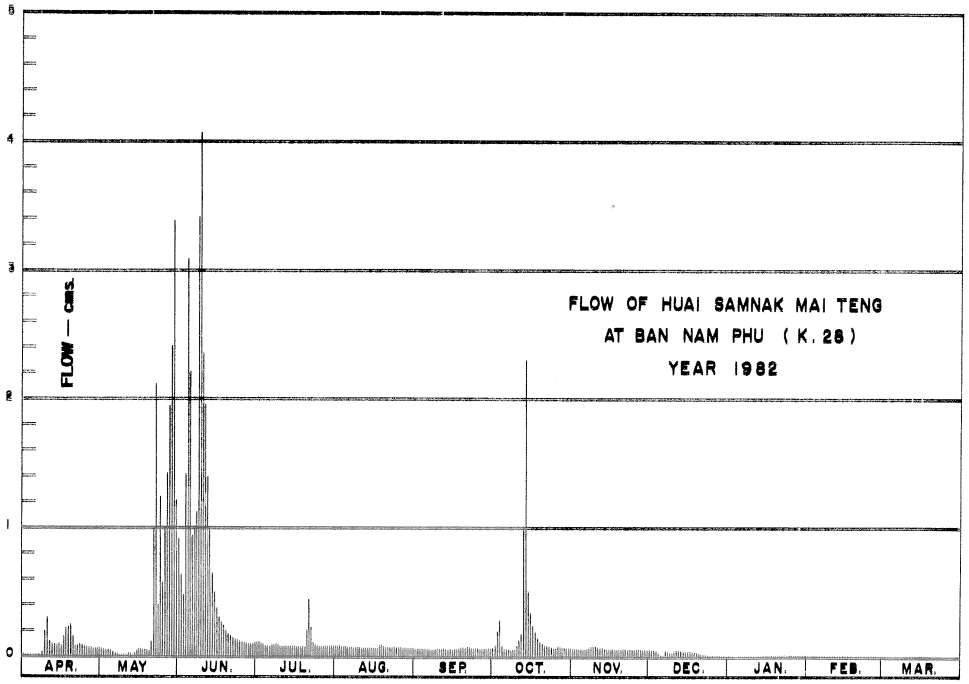
HUAI SAMNAK MAI TENG AT BAN NAM PHU, RATCHABURI (K.28)

LOCATION	LAT. 13°-30'-23" N., LONG. 99°-36'-04" E., ON LEFT BANK AT BAN NAM PHU, AMPHOE PAK THO, RATCHABURI.
DRAINAGE AREA	183 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+6.189 M. (A.D.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.61	0.82	1.23	0.92	0.88	0.85	0.85	0.84	0.81	0.60	0.39	0.21	
2	0.61	0.80	1.14	0.91	0.87	0.85	0.95	0.83	0.80	0.59	0.39	0.19	
3	0.60	0.79	1.32	0.90	0.87	0.85	1.04	0.83	0.80	0.58	0.38	0.17	
4	0.60	0.78	1.73	0.88	0.86	0.85	0.88	0.82	0.80	0.57	0.37	0.16	
5	0.60	0.77	1.40	0.88	0.86	0.84	0.84	0.82	0.70	0.56	0.37	0.16	
6	0.59	0.75	1.28	0.86	0.86	0.84	0.83	0.82	0.70	0.56	0.36	0.16	
7	0.58	0.73	1.32	0.88	0.86	0.84	0.82	0.82	0.80	0.55	0.36	0.15	
8	0.58	0.72	1.77	0.90	0.86	0.84	0.82	0.85	0.79	0.54	0.35	0.15	
9	0.94	0.70	1.88	0.90	0.86	0.84	0.82	0.89	0.79	0.53	0.35	0.14	
10	1.05	0.69	1.63	0.88	0.85	0.84	0.89	0.87	0.79	0.53	0.34	0.14	
11	0.91	0.69	1.46	0.87	0.85	0.84	0.95	0.86	0.80	0.52	0.33	0.13	
12	0.88	0.74	1.35	0.87	0.85	0.84	0.98	0.84	0.80	0.52	0.33	0.12	
13	0.87	0.73	1.26	0.87	0.85	0.83	1.58	0.83	0.80	0.51	0.32	0.10	
14	0.89	0.73	1.18	0.87	0.85	0.83	1.21	0.83	0.79	0.49	0.31	0.09	
15	0.89	0.81	1.12	0.87	0.85	0.82	1.10	0.82	0.79	0.48	0.29	0.08	
16	0.87	0.82	1.06	0.87	0.85	0.82	1.03	0.82	0.79	0.47	0.29	0.07	
17	1.00	0.81	1.04	0.87	0.85	0.83	0.98	0.81	0.78	0.47	0.28	0.06	
18	0.93	0.80	1.02	0.86	0.89	0.85	0.94	0.83	0.76	0.46	0.27	0.05	
19	0.94	0.78	0.99	0.86	0.89	0.84	0.91	0.82	0.75	0.46	0.27	0.05	
20	0.90	0.79	0.96	0.86	0.87	0.87	0.89	0.82	0.74	0.45	0.27	0.04	
21	0.88	0.95	0.95	1.12	0.86	0.87	0.88	0.82	0.73	0.45	0.26	0.03	
22	0.87	1.54	0.94	1.04	0.86	0.84	0.87	0.82	0.72	0.44	0.25	0.03	
23	0.88	1.10	0.93	0.91	0.85	0.83	0.86	0.82	0.71	0.43	0.24	0.02	
24	0.86	1.36	0.93	0.88	0.85	0.84	0.85	0.82	0.70	0.42	0.24	0.02	
25	0.85	1.18	0.92	0.87	0.85	0.83	0.85	0.81	0.68	0.42	0.23	0.00	
26	0.84	1.35	0.90	0.86	0.84	0.83	0.89	0.82	0.67	0.41	0.22	0.02	
27	0.84	1.45	0.90	0.86	0.84	0.82	0.87	0.82	0.66	0.40	0.22	0.03	
28	0.83	1.56	0.90	0.86	0.84	0.82	0.85	0.82	0.65	0.40	0.21	0.04	
29	0.83	1.78	0.89	0.86	0.84	0.83	0.85	0.82	0.64	0.40		0.04	
30	0.83	1.36	0.89	0.86	0.84	0.84	0.84	0.82	0.63	0.40		0.05	
31		1.35		0.88	0.84		0.84		0.62	0.39		0.05	
MEAN	0.81	0.98	1.18	0.89	0.86	0.84	0.93	0.83	0.74	0.48	0.30	0.09	
MAX	1.05	1.78	1.88	1.12	0.89	0.87	1.58	0.89	0.81	0.60	0.39	0.21	1.88
MIN	0.58	0.69	0.89	0.86	0.84	0.82	0.82	0.81	0.62	0.39	0.21	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.36 M (A.D), AT 21.00 HOURS, ON MAY 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.75 M (A.D)
LEFT BANK ELEVATION 5.94 M (A.D)
RIGHT BANK ELEVATION 5.41 M (A.D), DRAINAGE AREA 183 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.06	0.72	0.12	0.09	0.08	0.08	0.07	0.06	0.00	0.00	0.00	
2	0.00	0.05	0.48	0.11	0.09	0.08	0.15	0.07	0.05	0.00	0.00	0.00	
3	0.00	0.05	1.08	0.10	0.09	0.08	0.28	0.07	0.05	0.00	0.00	0.00	
4	0.00	0.04	3.08	0.09	0.08	0.08	0.09	0.06	0.05	0.00	0.00	0.00	
5	0.00	0.04	1.40	0.09	0.08	0.07	0.07	0.06	0.00	0.00	0.00	0.00	
6	0.00	0.03	0.92	0.08	0.08	0.07	0.07	0.06	0.00	0.00	0.00	0.00	
7	0.00	0.02	1.08	0.09	0.08	0.07	0.06	0.06	0.05	0.00	0.00	0.00	
8	0.00	0.01	3.32	0.10	0.08	0.07	0.06	0.08	0.05	0.00	0.00	0.00	
9	0.14	0.00	4.06	0.10	0.08	0.07	0.06	0.10	0.05	0.00	0.00	0.00	
10	0.30	0.00	2.55	0.09	0.08	0.07	0.10	0.09	0.05	0.00	0.00	0.00	
11	0.11	0.00	1.70	0.09	0.08	0.07	0.15	0.08	0.05	0.00	0.00	0.00	
12	0.09	0.02	1.20	0.09	0.08	0.07	0.18	0.07	0.05	0.00	0.00	0.00	
13	0.09	0.02	0.84	0.09	0.08	0.07	2.30	0.07	0.05	0.00	0.00	0.00	
14	0.10	0.02	0.56	0.09	0.08	0.07	0.64	0.07	0.05	0.00	0.00	0.00	
15	0.10	0.06	0.44	0.09	0.08	0.06	0.40	0.06	0.05	0.00	0.00	0.00	
16	0.09	0.06	0.32	0.09	0.08	0.06	0.26	0.06	0.05	0.00	0.00	0.00	
17	0.20	0.06	0.28	0.09	0.08	0.07	0.18	0.06	0.04	0.00	0.00	0.00	
18	0.13	0.05	0.24	0.08	0.10	0.08	0.14	0.07	0.03	0.00	0.00	0.00	
19	0.14	0.04	0.19	0.08	0.10	0.07	0.11	0.06	0.03	0.00	0.00	0.00	
20	0.10	0.05	0.16	0.08	0.09	0.09	0.10	0.06	0.02	0.00	0.00	0.00	
21	0.09	0.15	0.15	0.44	0.08	0.09	0.09	0.06	0.02	0.00	0.00	0.00	
22	0.09	2.10	0.14	0.28	0.08	0.07	0.09	0.06	0.01	0.00	0.00	0.00	
23	0.09	0.40	0.13	0.11	0.08	0.07	0.08	0.06	0.00	0.00	0.00	0.00	
24	0.08	1.24	0.13	0.09	0.08	0.07	0.08	0.06	0.00	0.00	0.00	0.00	
25	0.08	0.56	0.12	0.09	0.08	0.07	0.08	0.06	0.00	0.00	0.00	0.00	
26	0.07	1.20	0.10	0.08	0.07	0.07	0.10	0.06	0.00	0.00	0.00	0.00	
27	0.07	1.65	0.10	0.08	0.07	0.06	0.09	0.06	0.00	0.00	0.00	0.00	
28	0.07	2.20	0.10	0.08	0.07	0.06	0.08	0.06	0.00	0.00	0.00	0.00	
29	0.07	3.38	0.10	0.08	0.07	0.07	0.08	0.06	0.00	0.00		0.00	
30	0.07	1.24	0.10	0.08	0.07	0.07	0.07	0.06	0.00	0.00		0.00	
31		1.20		0.09	0.07		0.07		0.00	0.00		0.00	
TOTAL	2.37	16.00	25.79	3.34	2.50	2.15	6.39	1.98	0.86	0.00	0.00	0.00	61.38 CMSDAY
MEAN	0.08	0.52	0.86	0.11	0.08	0.07	0.21	0.07	0.03	0.00	0.00	0.00	0.17 CMS
MAX	0.30	3.38	4.06	0.44	0.10	0.09	2.30	0.10	0.06	0.00	0.00	0.00	4.06 CMS
MIN	0.00	0.00	0.10	0.08	0.07	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.205	1.382	2.228	0.289	0.216	0.186	0.552	0.171	0.074	0.000	0.000	0.000	5.303 MCM

MOMENTARY PEAK 35.34 CMS, AT 4.36 M (A.D), AT 21.00 HOURS, ON MAY 28, 1982

RUNOFF YIELD 0.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 193.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

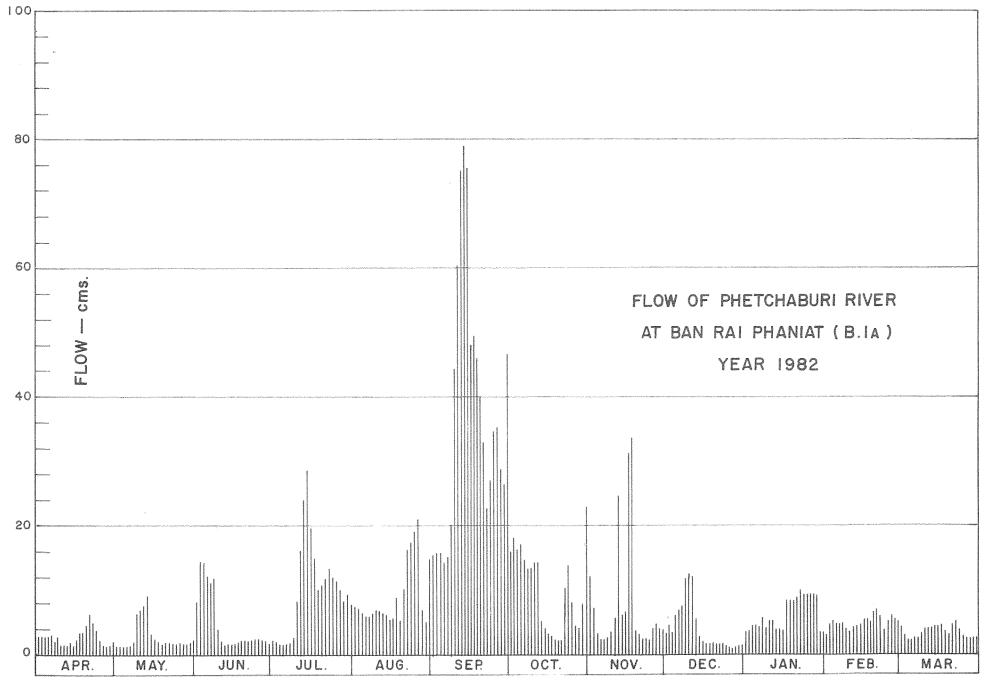
PHETCHABURI RIVER AT BAN RAI PHANIAT, PHETCHABURI (B.1A)

LOCATION	LAT. 13°-04'-22" N., LONG. 99°-56'-37" E., ON LEFT BANK, NEXT TO MUANG THAMON REGULATOR, BAN RAI PHANIAT, TAMBON BAN MO, AMPHOE MUANG, PHETCHABURI.
DRAINAGE AREA	4,188 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	_0.060 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ALONG THE GAGE LINE.
ELEVATION	+4.667 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1961 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965, 1967 - 1971.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965, 1967 - 1971.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET DIVERSION DAM FOR IRRIGATION ABOUT 27,800 HECTARES ABOVE GAGE SITE. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE DURING 1965, 1967 - 1968, 1970.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	0.84	1.19	0.92	1.32	1.71	1.73	1.67	1.02	1.04	1.01	1.12	
2	0.98	0.83	1.55	0.90	1.29	1.73	1.82	1.35	1.10	1.04	1.08	1.06	
3	0.98	0.83	1.66	0.88	1.27	1.73	1.79	1.24	1.02	1.10	1.14	0.95	
4	0.98	0.82	1.65	0.87	1.24	1.72	1.75	1.04	1.19	1.12	1.15	0.93	
5	0.99	0.82	1.64	0.87	1.08	1.64	1.77	0.96	1.24	1.08	1.14	0.92	
6	1.00	0.82	1.53	0.86	1.01	1.66	1.75	0.94	1.27	1.13	1.11	0.93	
7	0.90	0.83	1.50	0.86	1.18	1.69	1.62	0.94	1.41	1.18	1.13	0.98	
8	0.97	0.97	1.51	0.89	1.22	1.82	1.61	0.98	1.52	1.11	1.14	0.98	
9	0.87	1.20	1.40	0.96	1.23	2.50	1.60	0.98	1.54	1.08	1.08	1.05	
10	0.83	1.25	1.05	1.28	1.26	2.98	1.64	1.10	1.55	1.15	1.05	1.07	
11	0.85	1.28	0.93	1.59	1.25	3.20	1.65	1.19	1.54	1.15	1.06	1.07	
12	0.85	1.30	0.90	1.85	1.23	3.54	1.65	2.09	1.26	1.07	1.09	1.07	
13	0.89	1.39	0.88	2.13	1.22	3.63	1.22	1.56	1.05	1.06	1.09	1.06	
14	0.84	1.10	0.88	2.24	1.21	3.57	1.11	1.22	0.96	1.07	1.09	1.09	
15	0.85	0.96	0.89	1.98	1.19	3.33	1.04	1.23	0.90	1.05	1.13	1.08	
16	0.93	0.92	0.87	1.75	1.17	2.84	1.03	2.33	0.88	1.22	1.18	1.09	
17	1.00	0.90	0.88	1.66	1.25	2.87	0.99	2.40	0.87	1.35	1.15	1.09	
18	1.00	0.90	0.89	1.44	1.37	2.81	0.96	1.38	0.88	1.35	1.14	1.04	
19	1.05	0.87	0.93	1.46	1.17	2.74	0.93	1.05	0.88	1.33	1.23	1.04	
20	1.19	0.88	0.93	1.49	1.12	2.50	0.92	1.03	0.87	1.36	1.25	1.01	
21	1.21	0.90	0.93	1.51	1.37	2.37	0.92	0.97	0.86	1.34	1.27	1.13	
22	1.14	0.88	0.92	1.57	1.59	2.02	0.95	0.94	0.86	1.19	1.24	1.14	
23	1.07	0.88	0.94	1.61	1.75	2.02	1.49	0.94	0.87	1.16	1.13	1.11	
24	1.01	0.89	0.94	1.57	1.83	2.29	1.64	0.92	0.85	1.16	1.05	1.02	
25	0.88	0.89	0.95	1.52	1.89	2.45	1.37	0.92	0.83	1.15	1.09	0.99	
26	0.86	0.89	0.93	1.52	1.95	2.46	1.11	1.08	0.80	1.16	1.20	0.97	
27	0.83	0.88	0.93	1.46	1.67	2.24	1.09	1.12	0.81	1.16	1.19	0.97	
28	0.83	0.87	0.93	1.32	1.25	2.24	1.08	1.10	0.81	1.15	1.15	0.96	
29	0.84	0.88	0.91	1.40	1.12	2.17	1.10	1.06	0.83	1.14		0.96	
30	0.90	0.88	0.89	1.41	1.32	2.81	1.62	1.07	0.84	1.03		0.95	
31		0.89		1.40	1.68		2.01		0.92	1.04		0.96	
MEAN	0.95	0.95	1.10	1.39	1.35	2.44	1.39	1.23	1.04	1.15	1.13	1.03	
MAX	1.21	1.39	1.66	2.24	1.95	3.63	2.01	2.40	1.55	1.36	1.27	1.14	3.63
MIN	0.83	0.82	0.87	0.86	1.01	1.64	0.92	0.92	0.80	1.03	1.01	0.92	0.80

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.68 M (MSL), AT 9.00 HOURS, ON SEP 13, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED -0.31 M (MSL)
LEFT BANK ELEVATION 5.21 M (MSL)
RIGHT BANK ELEVATION 3.92 M (MSL), DRAINAGE AREA 4188 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.45	1.24	5.84	2.12	7.92	15.43	15.89	14.60	3.28	3.56	3.14	4.72	
2	2.78	1.13	12.20	1.90	7.44	15.89	17.96	8.40	4.40	3.56	4.12	3.84	
3	2.78	1.13	14.40	1.68	7.12	15.89	17.27	6.64	3.28	4.40	5.04	2.45	
4	2.78	1.02	14.20	1.57	6.64	15.66	16.35	3.56	5.84	4.72	5.20	2.23	
5	2.89	1.02	14.00	1.57	4.12	14.00	16.81	2.56	6.64	4.12	5.04	2.12	
6	3.00	1.02	11.80	1.46	3.14	14.40	16.35	2.34	7.12	4.88	4.56	2.23	
7	1.90	1.13	11.20	1.46	5.68	15.00	13.60	2.34	9.40	5.68	4.88	2.78	
8	2.67	2.67	11.40	1.79	6.32	17.96	13.40	2.78	11.60	4.56	5.04	2.78	
9	1.57	6.00	9.20	2.56	6.48	36.40	13.20	2.78	12.00	4.12	4.12	3.70	
10	1.13	6.80	3.70	7.28	6.96	52.88	14.00	4.40	12.20	5.20	3.70	3.98	
11	1.35	7.28	2.23	13.00	6.80	61.60	14.20	5.84	12.00	5.20	3.84	3.98	
12	1.35	7.60	1.90	18.65	6.48	75.34	14.20	24.55	6.96	3.98	4.26	3.98	
13	1.79	9.04	1.68	25.61	6.32	79.12	6.32	12.40	3.70	3.84	4.26	3.84	
14	1.24	4.40	1.68	28.66	6.16	76.57	4.56	6.32	2.56	3.98	4.26	4.26	
15	1.35	2.56	1.79	21.80	5.84	66.80	3.56	6.48	1.90	3.70	4.88	4.12	
16	2.23	2.12	1.57	16.35	5.52	47.90	3.42	31.30	1.68	6.32	5.68	4.26	
17	3.00	1.90	1.68	14.40	6.80	48.95	2.89	33.40	1.57	8.40	5.20	4.26	
18	3.00	1.90	1.79	10.00	8.72	46.85	2.56	8.88	1.68	8.40	5.04	3.56	
19	3.70	1.57	2.23	10.40	5.52	44.40	2.23	3.70	1.68	8.08	6.48	3.56	
20	5.84	1.68	2.23	11.00	4.72	36.40	2.12	3.42	1.57	8.56	6.80	3.14	
21	6.16	1.90	2.23	11.40	8.72	32.50	2.12	2.67	1.46	8.24	7.12	4.88	
22	5.04	1.68	2.12	12.60	13.00	22.80	2.45	2.34	1.46	5.84	6.64	5.04	
23	3.98	1.68	2.34	13.40	16.35	22.80	11.00	2.34	1.57	5.36	4.88	4.56	
24	3.14	1.79	2.34	12.60	18.19	30.11	14.00	2.12	1.35	5.36	3.70	3.28	
25	1.68	1.79	2.45	11.60	19.57	34.90	8.72	2.12	1.13	5.20	4.26	2.89	
26	1.46	1.79	2.23	11.60	21.05	35.20	4.56	4.12	0.80	5.36	6.00	2.67	
27	1.13	1.68	2.23	10.40	14.60	28.66	4.26	4.72	0.91	5.36	5.84	2.67	
28	1.13	1.57	2.23	7.92	6.80	28.66	4.12	4.40	0.91	5.20	5.20	2.56	
29	1.24	1.68	2.01	9.20	4.72	26.69	4.40	3.84	1.13	5.04		2.56	
30	1.90	1.68	1.79	9.40	7.92	46.85	13.60	3.98	1.24	3.42		2.45	
31		1.79		9.20	14.80		22.55		2.12	3.56		2.56	
TOTAL	75.66	82.24	148.69	312.58	270.42	1106.61	302.67	219.34	125.14	163.20	139.18	105.91	3051.64 CMSDAY
MEAN	2.52	2.65	4.96	10.08	8.72	36.89	9.76	7.31	4.04	5.26	4.97	3.42	8.36 CMS
MAX	6.16	9.04	14.40	28.66	21.05	79.12	22.55	33.40	12.20	8.56	7.12	5.04	79.12 CMS
MIN	1.13	1.02	1.57	1.46	3.14	14.00	2.12	2.12	0.80	3.42	3.14	2.12	0.80 CMS
RUNOFF	6.537	7.106	12.847	27.007	23.364	95.611	26.151	18.951	10.812	14.100	12.025	9.151	263.662 MCM

MOMENTARY PEAK 81.32 CMS, AT 3.68 M (MSL), AT 9.00 HOURS, ON SEP 13, 1982

RUNOFF YIELD 2.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

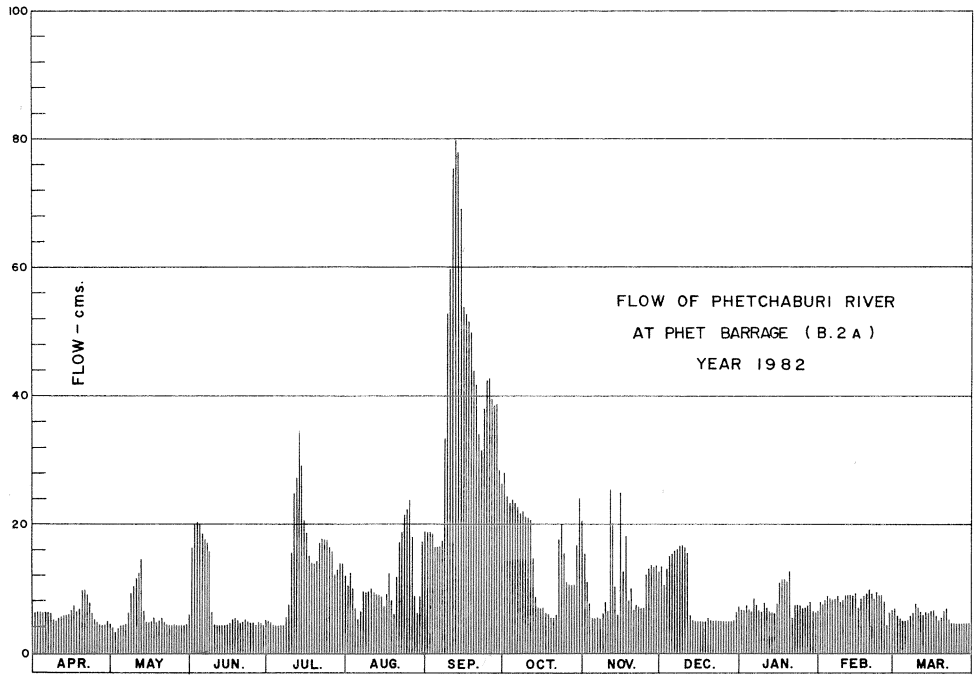
PHETCHABURI RIVER AT BAN THA SIK, PHETCHABURI (B.2A)

LOCATION	LAT. 12°-54'-44" N., LONG. 99°-51'-31" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM OF PHET BARRAGE, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	4,060 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+12.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE ABUTMENT OF PHET BARRAGE.
ELEVATION	+23.50 M. (M.S.L.)
GAGE READING FREQUENCY	3-5 TIME DAILY READINGS AT 06.00,09.00,12.00,15.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3-5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1959 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1960-1961, 1965-1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1960-1961, 1965-1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. . FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET BARRAGE ABOVE GAGE SITE FOR IRRIGATION ABOUT 27,800 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 31 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.18	12.13	12.44	12.14	12.27	12.54	12.87	12.46	12.35	12.19	12.22	12.20	
2	12.18	12.10	12.60	12.14	12.31	12.55	12.74	12.30	12.27	12.19	12.21	12.17	
3	12.18	12.12	12.61	12.13	12.25	12.54	12.71	12.22	12.33	12.21	12.23	12.16	
4	12.19	12.13	12.60	12.13	12.19	12.45	12.73	12.16	12.40	12.20	12.24	12.15	
5	12.18	12.13	12.54	12.13	12.15	12.45	12.72	12.16	12.41	12.19	12.23	12.15	
6	12.18	12.13	12.50	12.13	12.19	12.46	12.70	12.17	12.42	12.23	12.23	12.15	
7	12.18	12.17	12.48	12.13	12.25	12.50	12.65	12.16	12.44	12.21	12.23	12.17	
8	12.15	12.24	12.42	12.15	12.25	13.03	12.67	12.17	12.46	12.19	12.24	12.18	
9	12.14	12.27	12.17	12.21	12.25	13.64	12.64	12.22	12.47	12.18	12.22	12.21	
10	12.16	12.29	12.13	12.48	12.26	13.85	12.64	12.19	12.46	12.22	12.23	12.20	
11	12.16	12.29	12.13	12.74	12.25	14.25	12.62	12.78	12.40	12.20	12.24	12.18	
12	12.17	12.37	12.13	12.86	12.24	14.40	12.38	12.59	12.18	12.19	12.24	12.17	
13	12.17	12.19	12.13	13.09	12.24	14.34	12.22	12.26	12.15	12.18	12.24	12.18	
14	12.17	12.14	12.13	12.90	12.24	14.18	12.20	12.18	12.15	12.18	12.24	12.18	
15	12.18	12.14	12.13	12.63	12.20	13.69	12.20	12.77	12.15	12.22	12.25	12.19	
16	12.21	12.14	12.14	12.56	12.22	13.64	12.20	12.32	12.15	12.28	12.20	12.19	
17	12.18	12.16	12.15	12.41	12.31	13.63	12.18	12.53	12.15	12.29	12.23	12.17	
18	12.19	12.14	12.16	12.36	12.23	13.57	12.18	12.22	12.15	12.29	12.24	12.15	
19	12.25	12.14	12.15	12.36	12.17	13.41	12.16	12.26	12.16	12.28	12.25	12.16	
20	12.26	12.16	12.14	12.37	12.29	13.34	12.16	12.19	12.15	12.32	12.26	12.19	
21	12.24	12.15	12.14	12.47	12.46	13.09	12.17	12.21	12.15	12.16	12.25	12.20	
22	12.22	12.13	12.15	12.51	12.54	12.99	12.48	12.20	12.15	12.21	12.23	12.15	
23	12.18	12.13	12.15	12.50	12.64	13.12	12.60	12.20	12.15	12.21	12.21	12.14	
24	12.16	12.13	12.14	12.49	12.68	13.33	12.43	12.20	12.15	12.21	12.20	12.14	
25	12.14	12.13	12.14	12.44	12.73	13.35	12.28	12.31	12.15	12.20	12.24	12.14	
26	12.13	12.13	12.14	12.42	12.60	13.25	12.27	12.34	12.15	12.20	12.22	12.14	
27	12.13	12.13	12.13	12.30	12.26	13.21	12.27	12.36	12.15	12.21	12.13	12.14	
28	12.13	12.13	12.14	12.33	12.17	13.23	12.27	12.34	12.15	12.22	12.18	12.14	
29	12.15	12.13	12.13	12.36	12.24	12.91	12.48	12.35	12.15	12.18		12.14	
30	12.13	12.13	12.15	12.36	12.49	12.81	12.73	12.32	12.18	12.18		12.14	
31		12.18		12.31	12.55		12.63		12.21	12.20		12.14	
MEAN	12.18	12.16	12.24	12.40	12.33	13.26	12.46	12.30	12.24	12.21	12.23	12.16	
MAX	12.26	12.37	12.61	13.09	12.73	14.40	12.87	12.78	12.47	12.32	12.26	12.21	14.40
MIN	12.13	12.10	12.13	12.13	12.15	12.45	12.16	12.16	12.15	12.16	12.13	12.14	12.10

ANNUAL MAX MOMENTARY GAGE HEIGHT 14.49 M (MSL), AT 18.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 12.00 M (MSL), RIVER BED 10.06 M (MSL)
LEFT BANK ELEVATION 18.02 M (MSL)
RIGHT BANK ELEVATION 22.99 M (MSL), DRAINAGE AREA 4060 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.20	4.20	16.16	4.60	10.50	18.56	28.10	16.64	13.60	6.60	8.00	7.00	
2	6.20	3.00	20.00	4.60	12.32	18.80	24.20	12.00	10.50	6.60	7.50	5.80	
3	6.20	3.80	20.30	4.20	9.50	18.56	23.30	8.00	12.96	7.50	8.50	5.40	
4	6.60	4.20	20.00	4.20	6.60	16.40	23.90	5.40	15.20	7.00	9.00	5.00	
5	6.20	4.20	18.56	4.20	5.00	16.40	23.60	5.40	15.44	6.60	8.50	5.00	
6	6.20	4.20	17.60	4.20	6.60	16.64	23.00	5.80	15.68	8.50	8.50	5.00	
7	6.20	5.80	17.12	4.20	9.50	17.60	21.50	5.40	16.16	7.50	8.50	5.80	
8	5.00	9.00	15.68	5.00	9.50	32.90	22.10	5.80	16.64	6.60	9.00	6.20	
9	4.60	10.50	5.80	7.50	9.50	52.86	21.20	8.00	16.88	6.20	8.00	7.50	
10	5.40	11.50	4.20	17.12	10.00	60.00	21.20	6.60	16.64	8.00	8.50	7.00	
11	5.40	11.50	4.20	24.20	9.50	74.35	20.60	25.40	15.20	7.00	9.00	6.20	
12	5.80	14.24	4.20	27.80	9.00	79.84	14.56	19.76	6.20	6.60	9.00	5.80	
13	5.80	6.60	4.20	34.70	9.00	77.64	8.00	10.00	5.00	6.20	9.00	6.20	
14	5.80	4.60	4.20	29.00	9.00	71.79	7.00	6.20	5.00	6.20	9.00	6.20	
15	6.20	4.60	4.20	20.90	7.00	54.56	7.00	25.10	5.00	8.00	9.50	6.60	
16	7.50	4.60	4.60	19.04	8.00	52.86	7.00	12.64	5.00	11.00	7.00	6.60	
17	6.20	5.40	5.00	15.44	12.32	52.52	6.20	18.32	5.00	11.50	8.50	5.80	
18	6.60	4.60	5.40	13.92	8.50	50.48	6.20	8.00	5.00	11.50	9.00	5.00	
19	9.50	4.60	5.00	13.92	5.80	45.04	5.40	10.00	5.40	11.00	9.50	5.40	
20	10.00	5.40	4.60	14.24	11.50	42.72	5.40	6.60	5.00	12.64	10.00	6.60	
21	9.00	5.00	4.60	16.88	16.64	34.70	5.80	7.50	5.00	5.40	9.50	7.00	
22	8.00	4.20	5.00	17.84	18.56	31.70	17.12	7.00	5.00	7.50	8.50	5.00	
23	6.20	4.20	5.00	17.60	21.20	35.64	20.00	7.00	5.00	7.50	7.50	4.60	
24	5.40	4.20	4.60	17.36	22.40	42.39	15.92	7.00	5.00	7.50	7.00	4.60	
25	4.60	4.20	4.60	16.16	23.90	43.05	11.00	12.32	5.00	7.00	9.00	4.60	
26	4.20	4.20	4.60	15.68	20.00	39.80	10.50	13.28	5.00	7.00	8.00	4.60	
27	4.20	4.20	4.20	12.00	10.00	38.52	10.50	13.92	5.00	7.50	4.20	4.60	
28	4.20	4.20	4.60	12.96	5.80	39.16	10.50	13.28	5.00	8.00	6.20	4.60	
29	5.00	4.20	4.20	13.92	9.00	29.30	17.12	13.60	5.00	6.20		4.60	
30	4.20	4.20	5.00	13.92	17.36	26.30	23.90	12.64	6.20	6.20		4.60	
31		6.20		12.32	18.80		20.90		7.50	7.00		4.60	
TOTAL	182.60	175.54	247.42	439.62	362.30	1231.08	482.72	328.60	270.20	239.54	233.40	173.50	4366.52 CMSDAY
MEAN	6.09	5.66	8.25	14.18	11.69	41.04	15.57	10.95	8.72	7.73	8.34	5.60	11.96 CMS
MAX	10.00	14.24	20.30	34.70	23.90	79.84	28.10	25.40	16.88	12.64	10.00	7.50	79.84 CMS
MIN	4.20	3.00	4.20	4.20	5.00	16.40	5.40	5.40	5.00	5.40	4.20	4.60	3.00 CMS
RUNOFF	15.777	15.167	21.377	37.983	31.303	106.365	41.707	28.391	23.345	20.696	20.166	14.990	377.267 MCM

MOMENTARY PEAK 83.13 CMS, AT 14.49 M (MSL), AT 18.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 2.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 20.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

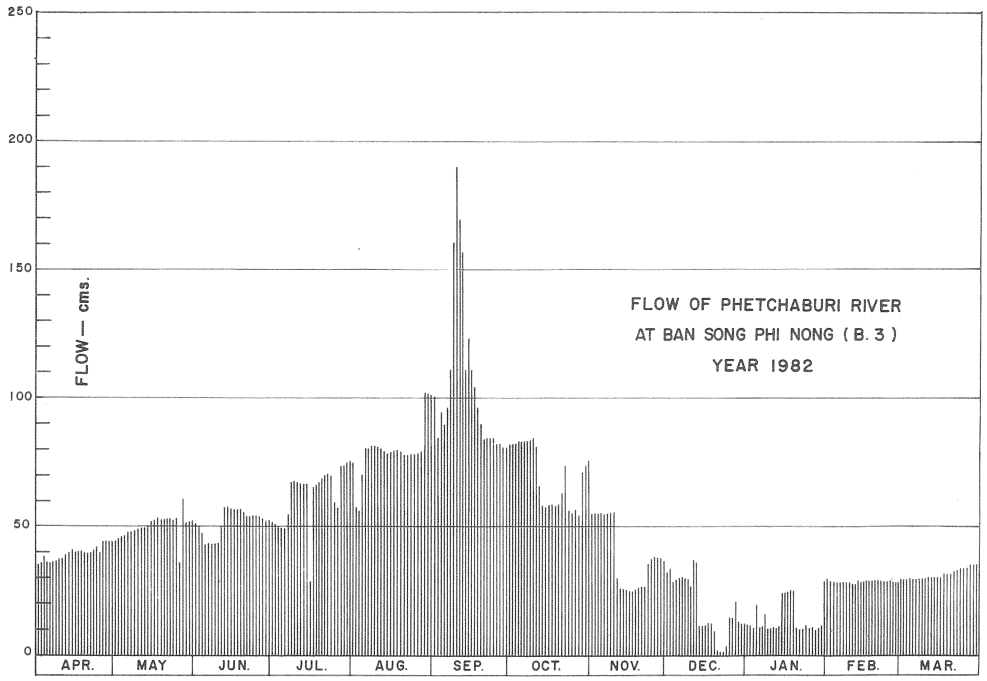
PHETCHABURI RIVER AT BAN SONG PHI NONG, PHETCHABURI (B.3)

LOCATION	LAT. 12°-52'-04" N., LONG. 99°-40'-40" E., ON LEFT BANK AT BAN SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	2,244 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+40.998 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP OF STAFF GAGE.
ELEVATION	+49.760 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1930 - 1942, 1954 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1954 - 1959, 1968 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954 - 1959, 1968 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY KAENG KRACHAN RESERVOIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.70	42.86	42.96	42.96	43.31	43.62	43.40	43.03	42.63	42.18	42.59	42.59	
2	42.70	42.87	42.95	42.96	43.06	43.61	43.40	43.03	42.67	42.18	42.59	42.59	
3	42.76	42.87	42.95	42.95	43.05	43.43	43.40	43.03	42.56	42.15	42.57	42.58	
4	42.71	42.88	42.88	42.93	43.22	43.55	43.41	43.03	42.56	42.14	42.57	42.57	
5	42.71	42.90	42.83	42.93	43.28	43.49	43.41	43.03	42.59	42.37	42.56	42.59	
6	42.71	42.91	42.83	42.93	43.38	43.55	43.41	43.03	42.60	42.15	42.56	42.59	
7	42.71	42.91	42.83	43.03	43.38	43.64	43.41	43.03	42.60	42.15	42.56	42.59	
8	42.72	42.92	42.83	43.21	43.39	44.01	43.41	43.03	42.59	42.27	42.56	42.59	
9	42.72	42.92	42.83	43.22	43.39	44.41	43.42	43.03	42.59	42.13	42.56	42.59	
10	42.73	42.93	42.83	43.21	43.39	44.54	43.42	43.03	42.52	42.13	42.56	42.59	
11	42.75	42.94	42.96	43.20	43.39	44.46	43.39	42.84	42.71	42.14	42.54	42.60	
12	42.76	42.94	43.06	43.19	43.37	44.31	43.25	42.61	42.71	42.17	42.54	42.60	
13	42.78	42.94	43.06	43.20	43.36	44.15	43.08	42.52	42.15	42.14	42.56	42.60	
14	42.79	42.96	43.06	43.20	43.35	43.73	43.07	42.51	42.15	42.18	42.56	42.60	
15	42.77	42.98	43.05	43.19	43.35	43.90	43.07	42.51	42.15	42.49	42.56	42.60	
16	42.78	42.98	43.05	42.57	43.36	43.74	43.08	42.51	42.18	42.49	42.56	42.60	
17	42.79	42.98	43.05	43.19	43.36	43.70	43.07	42.49	42.20	42.49	42.57	42.62	
18	42.79	42.98	43.05	43.19	43.36	43.62	43.07	42.49	42.22	42.49	42.57	42.63	
19	42.77	42.98	43.05	43.21	43.36	43.55	43.07	42.51	42.16	42.50	42.57	42.63	
20	42.78	42.98	43.03	43.22	43.35	43.49	43.08	42.52	41.85	42.12	42.57	42.63	
21	42.78	42.99	43.01	43.24	43.35	43.43	43.16	42.53	41.81	42.13	42.57	42.64	
22	42.79	43.00	43.01	43.24	43.35	43.43	43.29	42.53	41.78	42.10	42.57	42.64	
23	42.80	42.98	43.01	43.23	43.35	43.43	43.29	42.61	41.76	42.12	42.57	42.66	
24	42.81	43.00	43.01	43.24	43.35	43.41	43.04	42.71	41.86	42.16	42.57	42.67	
25	42.76	43.00	43.01	43.11	43.35	43.40	43.03	42.74	42.23	42.12	42.57	42.66	
26	42.85	42.70	43.01	43.06	43.35	43.40	43.05	42.75	42.23	42.13	42.57	42.67	
27	42.84	43.11	42.99	43.28	43.35	43.39	43.04	42.74	42.31	42.12	42.57	42.69	
28	42.84	42.97	42.99	43.29	43.46	43.38	43.02	42.74	42.39	42.11	42.57	42.69	
29	42.85	42.97	42.99	43.30	43.63	43.38	43.26	42.74	42.19	42.13		42.69	
30	42.85	42.97	42.99	43.30	43.63	43.39	43.27	42.74	42.18	42.13		42.69	
31		42.98		43.31	43.62		43.03		42.18	42.23		42.69	
MEAN	42.77	42.94	42.97	43.14	43.36	43.68	43.22	42.75	42.30	42.21	42.56	42.62	
MAX	42.85	43.11	43.06	43.31	43.63	44.54	43.42	43.03	42.71	42.50	42.59	42.69	44.54
MIN	42.70	42.70	42.83	42.57	43.05	43.38	43.02	42.49	41.76	42.10	42.54	42.57	41.76

ANNUAL MAX MOMENTARY GAGE HEIGHT 44.56 M (MSL), AT 6.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 41.00 M (MSL), RIVER BED 40.58 M (MSL)
LEFT BANK ELEVATION 47.97 M (MSL)
RIGHT BANK ELEVATION 48.81 M (MSL), DRAINAGE AREA 2244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	35.59	44.88	51.05	51.05	75.52	101.12	82.54	55.58	31.81	12.25	29.72	29.72	
2	35.59	45.48	50.42	51.05	57.59	100.22	82.54	55.58	33.97	12.25	29.72	29.72	
3	39.01	45.48	50.42	50.42	56.92	84.94	82.54	55.58	28.28	11.23	28.76	29.24	
4	36.16	46.08	46.08	49.16	68.50	94.92	83.34	55.58	28.28	10.89	28.76	28.76	
5	36.16	47.28	43.08	49.16	73.18	89.74	83.34	55.58	29.72	19.66	28.28	29.72	
6	36.16	47.90	43.08	49.16	80.98	94.92	83.34	55.58	30.20	11.23	28.28	29.72	
7	36.16	47.90	43.08	55.58	80.98	102.92	83.34	55.58	30.20	11.23	28.28	29.72	
8	36.73	48.53	43.08	67.72	81.76	137.48	83.34	55.58	29.72	15.58	28.28	29.72	
9	36.73	48.53	43.08	68.50	81.76	176.93	84.14	55.58	29.72	10.55	28.28	29.72	
10	37.30	49.16	43.08	67.72	81.76	190.64	84.14	55.58	26.36	10.55	28.28	29.72	
11	38.44	49.79	51.05	66.97	81.76	182.13	81.76	43.68	36.16	10.89	27.32	30.20	
12	39.01	49.79	57.59	66.30	80.20	166.90	70.84	30.73	36.16	11.91	27.32	30.20	
13	40.15	49.79	57.59	66.97	79.42	151.06	58.93	26.36	11.23	10.89	28.28	30.20	
14	40.72	51.05	57.59	66.97	78.64	111.10	58.26	25.88	11.23	12.25	28.28	30.20	
15	39.58	52.31	56.92	66.30	78.64	126.91	58.26	25.88	11.23	24.96	28.28	30.20	
16	40.15	52.31	56.92	28.76	79.42	112.03	58.93	25.88	12.25	24.96	28.28	30.20	
17	40.72	52.31	56.92	66.30	79.42	108.32	58.26	24.96	12.93	24.96	28.76	31.27	
18	40.72	52.31	56.92	66.30	79.42	101.12	58.26	24.96	13.68	24.96	28.76	31.81	
19	39.58	52.31	56.92	67.72	79.42	94.92	58.26	25.88	11.57	25.41	28.76	31.81	
20	40.15	52.31	55.58	68.50	78.64	89.74	58.93	26.36	2.91	10.21	28.76	31.81	
21	40.15	52.94	54.24	70.06	78.64	84.94	64.29	26.84	2.07	10.55	28.76	32.35	
22	40.72	53.57	54.24	70.06	78.64	84.94	73.96	26.84	1.57	9.54	28.76	32.35	
23	41.29	52.31	54.24	69.28	78.64	84.94	73.96	30.73	1.27	10.21	28.76	33.43	
24	41.88	53.57	54.24	70.06	78.64	83.34	56.25	36.16	3.12	11.57	28.76	33.97	
25	39.01	53.57	54.24	60.94	78.64	82.54	55.58	37.87	14.06	10.21	28.76	33.43	
26	44.28	35.59	54.24	57.59	78.64	82.54	56.92	38.44	14.06	10.55	28.76	33.97	
27	43.68	60.94	52.94	73.18	78.64	81.76	56.25	37.87	17.14	10.21	28.76	35.05	
28	43.68	51.68	52.94	73.96	87.34	80.98	54.91	37.87	20.50	9.87	28.76	35.05	
29	44.28	51.68	52.94	74.74	102.02	80.98	71.62	37.87	12.59	10.55		35.05	
30	44.28	51.68	52.94	74.74	102.02	81.76	72.40	37.87	12.25	10.55		35.05	
31		52.31		75.52	101.12		55.58		12.25	14.06		35.05	
TOTAL	1188.06	1555.34	1557.65	1960.74	2476.91	3246.78	2145.01	1184.73	568.49	424.69	799.52	978.41	18086.33 CMSDAY
MEAN	39.60	50.17	51.92	63.25	79.90	108.23	69.19	39.49	18.34	13.70	28.55	31.56	49.55 CMS
MAX	44.28	60.94	57.59	75.52	102.02	190.64	84.14	55.58	36.16	25.41	29.72	35.05	190.64 CMS
MIN	35.59	35.59	43.08	28.76	56.92	80.98	54.91	24.96	1.27	9.54	27.32	28.76	1.27 CMS
RUNOFF	102.648	134.381	134.581	169.408	214.005	280.522	185.329	102.361	49.118	36.693	69.079	84.535	1562.659 MCM

MOMENTARY PEAK 192.82 CMS, AT 44.56 M (MSL), AT 6.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 22.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 85.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

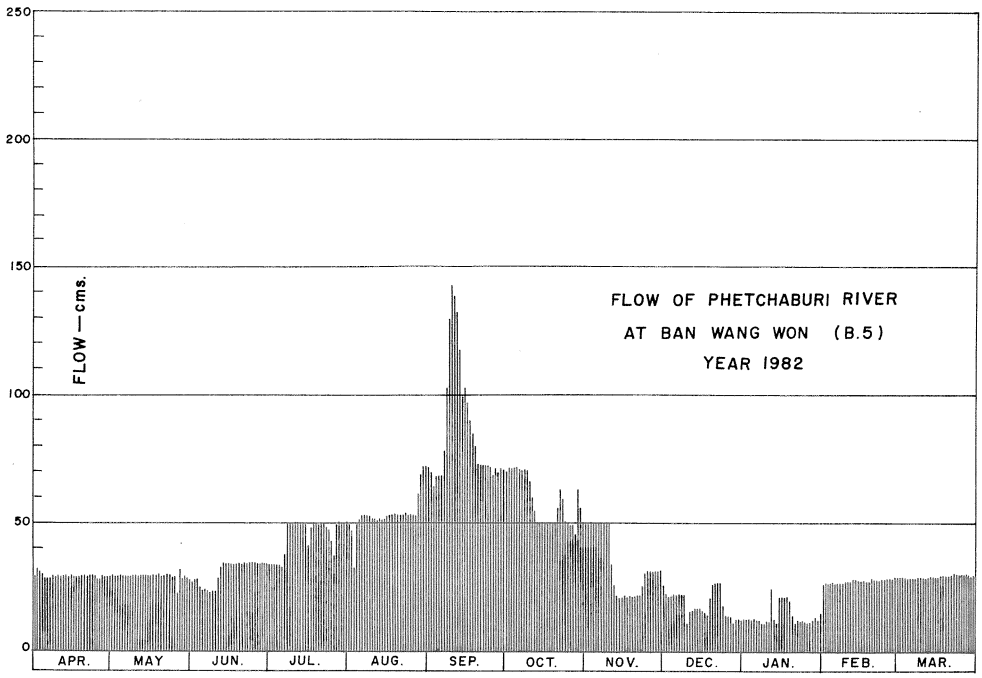
PHETCHABURI RIVER AT BAN WANG WON, PHETCHABURI (B.5)

LOCATION	LAT. 12°-54'-40" N., LONG. 99°-38'-38" E., ON RIGHT BANK ABOUT 1 KILOMETER DOWNSTREAM FROM KAENG KRACHAN RESERVOIR, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	2,207 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+48.485 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BEHIND THE STATION OFFICE.
ELEVATION	+59.967 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1962 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1962 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1962 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	49.25	49.23	49.19	49.38	49.83	50.36	50.33	49.83	49.10	48.58	49.14	49.22	
2	49.32	49.23	49.19	49.38	49.73	50.34	50.35	49.83	48.98	48.57	49.15	49.25	
3	49.28	49.23	49.20	49.38	49.34	50.18	50.35	49.83	48.99	48.58	49.15	49.22	
4	49.22	49.23	49.06	49.37	49.86	50.29	50.33	49.83	48.98	48.57	49.15	49.21	
5	49.21	49.21	49.03	49.36	49.92	50.29	50.33	49.83	49.01	48.57	49.16	49.20	
6	49.20	49.24	49.07	49.36	49.92	50.29	50.34	49.83	49.00	48.56	49.15	49.21	
7	49.21	49.24	49.01	49.63	49.91	50.53	50.34	49.83	48.99	48.56	49.15	49.22	
8	49.24	49.24	49.02	49.82	49.91	51.11	50.34	49.83	48.99	48.50	49.16	49.22	
9	49.21	49.24	49.02	49.83	49.89	51.63	50.34	49.83	48.99	48.48	49.16	49.23	
10	49.22	49.24	49.02	49.83	49.88	51.72	50.31	49.84	48.52	48.56	49.17	49.23	
11	49.22	49.22	49.26	49.83	49.88	51.63	50.12	49.35	48.76	48.55	49.18	49.23	
12	49.22	49.24	49.39	49.82	49.88	51.46	49.94	49.13	48.76	49.08	49.17	49.22	
13	49.24	49.24	49.39	49.83	49.87	51.29	49.83	48.97	48.77	48.55	49.18	49.23	
14	49.23	49.24	49.38	49.82	49.89	50.94	49.83	48.96	48.78	48.52	49.18	49.24	
15	49.23	49.24	49.39	49.82	49.91	50.99	49.83	48.96	48.78	48.96	49.18	49.23	
16	49.23	49.26	49.38	49.60	49.91	50.84	49.84	48.98	48.73	48.96	49.18	49.24	
17	49.23	49.23	49.39	49.81	49.91	50.73	49.84	48.96	48.69	48.96	49.22	49.25	
18	49.23	49.23	49.39	49.81	49.92	50.63	49.84	48.97	48.68	48.96	49.18	49.25	
19	49.23	49.26	49.39	49.81	49.92	50.52	49.84	48.97	48.94	48.84	49.18	49.24	
20	49.24	49.23	49.39	49.83	49.92	50.41	49.85	48.97	49.13	48.58	49.18	49.24	
21	49.24	49.23	49.39	49.83	49.93	50.37	50.04	48.97	49.15	48.49	49.19	49.26	
22	49.25	49.27	49.40	49.84	49.93	50.38	50.18	48.97	49.15	48.54	49.20	49.26	
23	49.24	49.23	49.40	49.81	49.93	50.38	50.08	49.17	49.15	48.55	49.21	49.27	
24	49.24	49.22	49.40	49.76	49.93	50.37	49.83	49.30	48.80	48.54	49.21	49.28	
25	49.17	49.23	49.40	49.65	49.92	50.37	49.83	49.31	48.63	48.52	49.21	49.26	
26	49.22	48.96	49.40	49.50	49.94	50.29	49.83	49.31	48.64	48.53	49.21	49.27	
27	49.22	49.33	49.39	49.84	49.94	50.35	49.83	49.30	48.65	48.54	49.21	49.27	
28	49.22	49.20	49.39	49.83	50.21	50.33	49.74	49.31	48.51	48.58	49.22	49.27	
29	49.23	49.21	49.39	49.83	50.37	50.35	50.16	49.31	48.60	48.56		49.26	
30	49.23	49.21	49.39	49.83	50.36	50.35	49.94	49.32	48.58	48.57		49.25	
31		49.20		49.83	50.36		49.83		48.58	48.66		49.25	
MEAN	49.23	49.23	49.28	49.71	49.94	50.66	50.05	49.36	48.84	48.63	49.18	49.24	
MAX	49.32	49.33	49.40	49.84	50.37	51.72	50.35	49.84	49.15	49.08	49.22	49.28	51.72
MIN	49.17	48.96	49.01	49.36	49.34	50.18	49.74	48.96	48.51	48.48	49.14	49.20	48.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 51.77 M (MSL), AT 22.00 HOURS, ON SEP 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 48.48 M (MSL), RIVER BED 47.10 M (MSL)
LEFT BANK ELEVATION 59.22 M (MSL)
RIGHT BANK ELEVATION 54.15 M (MSL), DRAINAGE AREA 2207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	29.60	29.00	27.82	33.66	49.71	72.16	70.78	49.71	25.30	12.50	26.42	28.70	
2	31.74	29.00	27.82	33.66	46.01	71.24	71.70	49.71	21.96	12.30	26.70	29.60	
3	30.50	29.00	28.10	33.66	32.38	64.02	71.70	49.71	22.23	12.50	26.70	28.70	
4	28.70	29.00	24.18	33.34	50.82	68.95	70.78	49.71	21.96	12.30	26.70	28.40	
5	28.40	28.40	23.34	33.02	53.10	68.95	70.78	49.71	22.78	12.30	26.98	28.10	
6	28.10	29.30	24.46	33.02	53.10	68.95	71.24	49.71	22.50	12.10	26.70	28.40	
7	28.40	29.30	22.78	42.38	52.70	80.04	71.24	49.71	22.23	12.10	26.70	28.70	
8	29.30	29.30	23.06	49.34	52.70	109.63	71.24	49.71	22.23	10.90	26.98	28.70	
9	28.40	29.30	23.06	49.71	51.93	138.19	71.24	49.71	22.23	10.52	26.98	29.00	
10	28.70	29.30	23.06	49.71	51.56	143.17	69.86	50.08	11.30	12.10	27.26	29.00	
11	28.70	28.70	29.90	49.71	51.56	138.19	61.38	32.70	16.38	11.90	27.54	29.00	
12	28.70	29.30	33.98	49.34	51.56	128.79	53.90	26.14	16.38	24.74	27.26	28.70	
13	29.30	29.30	33.98	49.71	51.19	119.38	49.71	21.69	16.61	11.90	27.54	29.00	
14	29.00	29.30	33.66	49.34	51.93	100.62	49.71	21.42	16.84	11.30	27.54	29.30	
15	29.00	29.30	33.98	49.34	52.70	103.27	49.71	21.42	16.84	21.42	27.54	29.00	
16	29.00	29.90	33.66	41.30	52.70	95.38	50.08	21.96	15.69	21.42	27.54	29.30	
17	29.00	29.00	33.98	48.97	52.70	89.80	50.08	21.42	14.79	21.42	28.70	29.60	
18	29.00	29.00	33.98	48.97	53.10	84.87	50.08	21.69	14.58	21.42	27.54	29.60	
19	29.00	29.90	33.98	48.97	53.10	79.56	50.08	21.69	20.88	18.30	27.54	29.30	
20	29.30	29.00	33.98	49.71	53.10	74.46	50.45	21.69	26.14	12.50	27.54	29.30	
21	29.30	29.00	33.98	49.71	53.50	72.62	57.98	21.69	26.70	10.71	27.82	29.90	
22	29.60	30.20	34.30	50.08	53.50	73.08	64.02	21.69	26.70	11.70	28.10	29.90	
23	29.30	29.00	34.30	48.97	53.50	73.08	59.66	27.26	26.70	11.90	28.40	30.20	
24	29.30	28.70	34.30	47.12	53.50	72.62	49.71	31.10	17.30	11.70	28.40	30.50	
25	27.26	29.00	34.30	43.10	53.10	72.62	49.71	31.42	13.53	11.30	28.40	29.90	
26	28.70	21.42	34.30	37.80	53.90	68.95	49.71	31.42	13.74	11.50	28.40	30.20	
27	28.70	32.06	33.98	50.08	53.90	71.70	49.71	31.10	13.95	11.70	28.40	30.20	
28	28.70	28.10	33.98	49.71	65.35	70.78	46.38	31.42	11.10	12.50	28.70	30.20	
29	29.00	28.40	33.98	49.71	72.62	71.70	63.14	31.42	12.90	12.10		29.90	
30	29.00	28.40	33.98	49.71	72.16	71.70	53.90	31.74	12.50	12.30		29.60	
31		28.10		49.71	72.16		49.71		12.50	14.16		29.60	
TOTAL	870.70	895.98	924.16	1402.56	1674.84	2618.47	1819.37	1019.55	577.47	427.51	771.02	909.50	13911.13 CMSDAY
MEAN	29.02	28.90	30.81	45.24	54.03	87.28	58.69	33.98	18.63	13.79	27.54	29.34	38.11 CMS
MAX	31.74	32.06	34.30	50.08	72.62	143.17	71.70	50.08	26.70	24.74	28.70	30.50	143.17 CMS
MIN	27.26	21.42	22.78	33.02	32.38	64.02	46.38	21.42	11.10	10.52	26.42	28.10	10.52 CMS
RUNOFF	75.228	77.413	79.847	121.181	144.706	226.236	157.194	88.089	49.893	36.937	66.616	78.581	1201.922 MCM

MOMENTARY PEAK 145.94 CMS, AT 51.77 M (MSL), AT 22.00 HOURS, ON SEP 10, 1982

RUNOFF YIELD 17.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 66.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

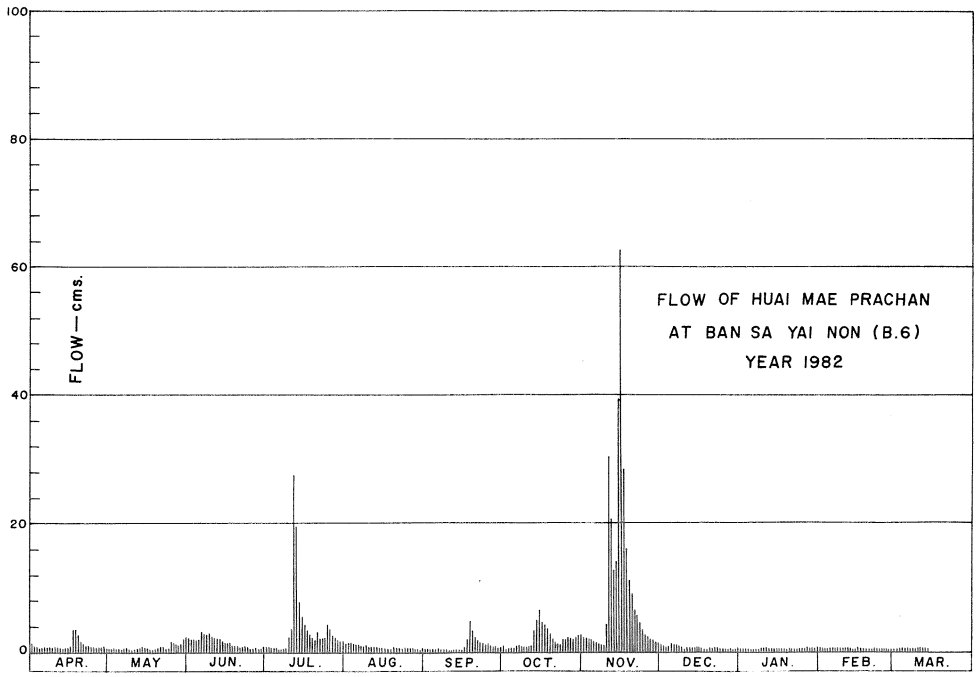
HUAI MAE PRACHAN AT BAN SA YAI NON, PHETCHABURI (B.6)

LOCATION	LAT. 12°-55'-56" N., LONG. 99°-47'-05" E., ON LEFT BANK ABOUT 250 METERS UPSTREAM FROM THE BRIDGE OF KHUAN PHET-KAENG KRACHAN RESERVOIR ROAD, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	1,015 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+22.711 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+30.274 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1941 - 1942, 1961 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1961 - 1962, 1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1961 - 1962, 1964 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.71	23.63	23.92	23.66	23.78	23.66	23.72	23.93	23.77	23.49	23.40	23.34	
2	23.71	23.63	23.88	23.65	23.76	23.66	23.71	23.91	23.74	23.49	23.40	23.34	
3	23.70	23.63	23.85	23.64	23.76	23.64	23.69	23.90	23.73	23.49	23.40	23.34	
4	23.70	23.63	23.86	23.64	23.76	23.63	23.70	23.90	23.72	23.49	23.40	23.33	
5	23.68	23.63	23.86	23.63	23.76	23.62	23.70	23.88	23.81	23.49	23.40	23.33	
6	23.68	23.63	24.02	23.63	23.74	23.62	23.77	23.83	23.78	23.49	23.40	23.33	
7	23.68	23.63	24.00	23.62	23.72	23.62	23.78	23.80	23.75	23.49	23.40	23.34	
8	23.68	23.64	23.96	23.62	23.71	23.61	23.77	23.80	23.72	23.49	23.40	23.34	
9	23.68	23.63	23.99	23.69	23.70	23.62	23.75	23.80	23.70	23.49	23.40	23.34	
10	23.68	23.63	23.93	23.90	23.70	23.62	23.77	24.15	23.70	23.48	23.40	23.34	
11	23.68	23.63	23.90	24.07	23.70	23.62	23.76	25.05	23.69	23.48	23.40	23.35	
12	23.68	23.62	23.88	24.99	23.70	23.62	23.80	24.81	23.67	23.46	23.40	23.34	
13	23.68	23.62	23.88	24.68	23.68	23.61	24.11	24.58	23.65	23.44	23.39	23.34	
14	23.68	23.63	23.83	24.33	23.68	23.62	24.21	24.65	23.64	23.44	23.38	23.32	
15	23.69	23.63	23.80	24.21	23.64	23.65	24.30	25.51	23.64	23.44	23.38	23.32	
16	23.71	23.63	23.78	24.11	23.64	23.70	24.18	25.30	23.64	23.44	23.38	23.31	
17	24.05	23.61	23.76	24.02	23.63	23.95	24.11	24.86	23.63	23.43	23.38	23.31	
18	24.04	23.61	23.74	23.94	23.62	24.17	24.07	24.63	23.62	23.43	23.38	23.31	
19	23.91	23.61	23.72	23.90	23.62	24.10	24.03	24.48	23.61	23.42	23.38	23.31	
20	23.80	23.70	23.71	23.87	23.62	23.95	23.92	24.39	23.69	23.42	23.38	23.31	
21	23.75	23.75	23.71	23.99	23.62	23.87	23.85	24.27	23.61	23.42	23.38	23.30	
22	23.73	23.68	23.71	23.88	23.62	23.83	23.81	24.19	23.61	23.42	23.38	23.30	
23	23.71	23.66	23.70	23.91	23.62	23.80	23.80	24.11	23.60	23.42	23.37	23.30	
24	23.69	23.65	23.70	23.92	23.63	23.80	23.91	24.05	23.59	23.40	23.37	23.30	
25	23.67	23.84	23.70	24.11	23.64	23.79	23.91	23.99	23.58	23.40	23.37	23.30	
26	23.67	23.80	23.69	24.06	23.64	23.77	23.90	23.94	23.58	23.40	23.36	23.30	
27	23.67	23.77	23.68	23.96	23.63	23.74	23.92	23.90	23.56	23.40	23.36	23.30	
28	23.67	23.75	23.66	23.90	23.63	23.72	23.91	23.86	23.56	23.40	23.34	23.29	
29	23.66	23.81	23.66	23.86	23.62	23.72	23.94	23.82	23.50	23.40		23.28	
30	23.64	23.88	23.66	23.83	23.62	23.72	23.94	23.80	23.49	23.40		23.28	
31		23.93		23.80	23.62		23.96		23.49	23.40		23.28	
MEAN	23.72	23.68	23.80	23.94	23.67	23.73	23.89	24.24	23.65	23.44	23.38	23.32	
MAX	24.05	23.93	24.02	24.99	23.78	24.17	24.30	25.51	23.81	23.49	23.40	23.35	25.51
MIN	23.64	23.61	23.66	23.62	23.62	23.61	23.69	23.80	23.49	23.40	23.34	23.28	23.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.60 M (MSL), AT 15.00 HOURS, ON NOV 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 22.71 M (MSL), RIVER BED 23.11 M (MSL)
LEFT BANK ELEVATION 30.67 M (MSL)
RIGHT BANK ELEVATION 30.05 M (MSL), DRAINAGE AREA 1015 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.87	0.45	2.38	0.60	1.36	0.60	0.94	2.47	1.29	0.09	0.05	0.02	
2	0.87	0.45	2.06	0.55	1.22	0.60	0.87	2.29	1.08	0.09	0.05	0.02	
3	0.80	0.45	1.85	0.50	1.22	0.50	0.75	2.20	1.01	0.09	0.05	0.02	
4	0.80	0.45	1.92	0.50	1.22	0.45	0.80	2.20	0.94	0.09	0.05	0.02	
5	0.70	0.45	1.92	0.45	1.22	0.40	0.80	2.06	1.57	0.09	0.05	0.02	
6	0.70	0.45	3.32	0.45	1.08	0.40	1.29	1.71	1.36	0.09	0.05	0.02	
7	0.70	0.45	3.10	0.40	0.94	0.40	1.36	1.50	1.15	0.09	0.05	0.02	
8	0.70	0.50	2.74	0.40	0.87	0.35	1.29	1.50	0.94	0.09	0.05	0.02	
9	0.70	0.45	3.01	0.75	0.80	0.40	1.15	1.50	0.80	0.09	0.05	0.02	
10	0.70	0.45	2.47	2.20	0.80	0.40	1.29	4.85	0.80	0.09	0.05	0.02	
11	0.70	0.45	2.20	3.87	0.80	0.40	1.22	30.70	0.75	0.09	0.05	0.02	
12	0.70	0.40	2.06	27.75	0.80	0.40	1.50	20.10	0.65	0.08	0.05	0.02	
13	0.70	0.40	2.06	15.74	0.70	0.35	4.33	13.00	0.55	0.07	0.04	0.02	
14	0.70	0.45	1.71	7.54	0.70	0.40	5.65	14.90	0.50	0.07	0.04	0.01	
15	0.75	0.45	1.50	5.65	0.50	0.55	7.00	62.66	0.50	0.07	0.04	0.01	
16	0.87	0.45	1.36	4.33	0.50	0.80	5.24	46.10	0.50	0.07	0.04	0.01	
17	3.65	0.35	1.22	3.32	0.45	2.65	4.33	22.10	0.45	0.06	0.04	0.01	
18	3.54	0.35	1.08	2.56	0.40	5.11	3.87	14.34	0.40	0.06	0.04	0.01	
19	2.29	0.35	0.94	2.20	0.40	4.20	3.43	10.56	0.35	0.06	0.04	0.01	
20	1.50	0.80	0.87	1.99	0.40	2.65	2.38	8.62	0.75	0.06	0.04	0.01	
21	1.15	1.15	0.87	3.01	0.40	1.99	1.85	6.55	0.35	0.06	0.04	0.00	
22	1.01	0.70	0.87	2.06	0.40	1.71	1.57	5.37	0.35	0.06	0.04	0.00	
23	0.87	0.60	0.80	2.29	0.40	1.50	1.50	4.33	0.30	0.06	0.03	0.00	
24	0.75	0.55	0.80	2.38	0.45	1.50	2.29	3.65	0.28	0.05	0.03	0.00	
25	0.65	1.78	0.80	4.33	0.50	1.43	2.29	3.01	0.26	0.05	0.03	0.00	
26	0.65	1.50	0.75	3.76	0.50	1.29	2.20	2.56	0.26	0.05	0.03	0.00	
27	0.65	1.29	0.70	2.74	0.45	1.08	2.38	2.20	0.22	0.05	0.03	0.00	
28	0.65	1.15	0.60	2.20	0.45	0.94	2.29	1.92	0.22	0.05	0.02	0.00	
29	0.60	1.57	0.60	1.92	0.40	0.94	2.56	1.64	0.10	0.05		0.00	
30	0.50	2.06	0.60	1.71	0.40	0.94	2.56	1.50	0.09	0.05		0.00	
31		2.47		1.50	0.40		2.74		0.09	0.05		0.00	
TOTAL	30.42	23.82	47.16	109.65	21.13	35.33	73.72	298.09	18.86	2.17	1.17	0.33	661.85 CMSDAY
MEAN	1.01	0.77	1.57	3.54	0.68	1.18	2.38	9.94	0.61	0.07	0.04	0.01	1.81 CMS
MAX	3.65	2.47	3.32	27.75	1.36	5.11	7.00	62.66	1.57	0.09	0.05	0.02	62.66 CMS
MIN	0.50	0.35	0.60	0.40	0.40	0.35	0.75	1.50	0.09	0.05	0.02	0.00	0.00 CMS
RUNOFF	2.628	2.058	4.075	9.474	1.826	3.053	6.369	25.755	1.630	0.187	0.101	0.029	57.184 MCM

MOMENTARY PEAK 70.40 CMS, AT 25.60 M (MSL), AT 15.00 HOURS, ON NOV 15, 1982
RUNOFF YIELD 1.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 69.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

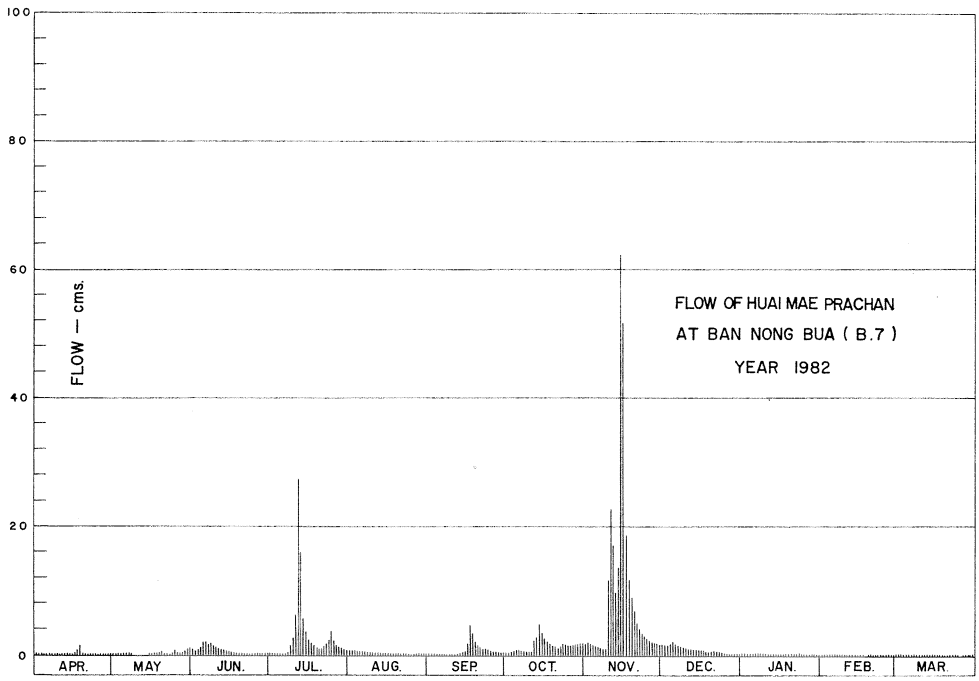
HUAI MAE PRACHAN AT BAN NONG BUA, PHETCHABURI (B.7)

LOCATION	LAT. 13°-01'-45" N., LONG. 99°-44'-00" E., ON LEFT BANK AT BAN NONG BUA, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	846 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF STATION OFFICE.
ELEVATION	+10.495 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967 - 1981, 1984 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 - 1981, 1984 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 91 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.83	0.77	1.19	0.91	1.13	0.98	1.04	1.42	1.36	0.98	0.87	0.83	
2	0.84	0.77	1.12	0.92	1.12	0.98	1.03	1.45	1.34	0.98	0.87	0.83	
3	0.83	0.77	1.12	0.92	1.11	0.94	1.05	1.39	1.32	0.99	0.86	0.83	
4	0.83	0.77	1.18	0.91	1.09	0.92	1.08	1.33	1.42	0.99	0.87	0.83	
5	0.82	0.77	1.44	0.91	1.08	0.91	1.14	1.30	1.48	0.98	0.88	0.83	
6	0.82	0.76	1.48	0.91	1.08	0.92	1.19	1.27	1.36	0.98	0.87	0.83	
7	0.82	0.77	1.36	0.84	1.05	0.92	1.10	1.23	1.32	0.98	0.87	0.85	
8	0.81	0.77	1.39	0.92	1.03	0.92	1.09	1.22	1.29	0.97	0.87	0.86	
9	0.79	0.75	1.33	1.29	1.02	0.93	1.08	1.20	1.25	0.96	0.88	0.83	
10	0.79	0.75	1.26	1.39	1.02	0.96	1.08	2.69	1.23	0.96	0.87	0.82	
11	0.79	0.73	1.23	2.08	1.01	0.96	1.12	3.40	1.21	0.97	0.87	0.82	
12	0.78	0.73	1.22	3.66	0.99	0.96	1.52	2.92	1.18	0.97	0.87	0.81	
13	0.77	0.74	1.20	2.57	0.98	0.95	1.62	2.43	1.17	0.97	0.87	0.80	
14	0.78	0.75	1.15	1.95	0.94	1.00	1.90	2.83	1.16	0.96	0.86	0.80	
15	0.78	0.76	1.10	1.76	0.91	1.09	1.78	5.02	1.15	0.95	0.86	0.81	
16	0.88	0.76	1.07	1.57	0.92	1.17	1.60	4.27	1.14	0.94	0.85	0.80	
17	1.20	0.76	1.04	1.44	0.94	1.90	1.52	3.14	1.13	0.93	0.76	0.80	
18	1.33	0.77	1.02	1.35	0.95	1.70	1.43	2.63	1.06	0.94	0.75	0.80	
19	0.95	0.91	1.02	1.27	0.96	1.57	1.36	2.34	1.06	0.91	0.90	0.79	
20	0.89	1.07	1.00	1.22	0.96	1.35	1.30	2.17	1.06	0.91	0.84	0.78	
21	0.89	0.86	0.99	1.19	0.96	1.27	1.26	1.97	1.06	0.91	0.84	0.77	
22	0.88	0.82	1.00	1.25	0.97	1.21	1.26	1.85	1.05	0.91	0.85	0.79	
23	0.88	0.80	0.99	1.38	0.96	1.22	1.38	1.74	1.04	0.91	0.85	0.79	
24	0.87	0.95	0.96	1.48	0.95	1.19	1.40	1.64	1.03	0.92	0.85	0.77	
25	0.83	1.14	0.94	1.75	0.95	1.15	1.35	1.57	1.01	0.91	0.85	0.76	
26	0.81	0.98	0.93	1.49	0.96	1.12	1.37	1.51	0.97	0.80	0.84	0.70	
27	0.80	0.92	0.92	1.35	0.98	1.11	1.37	1.46	0.96	0.87	0.84	0.76	
28	0.80	1.01	0.91	1.26	0.99	1.09	1.40	1.43	0.98	0.84	0.83	0.76	
29	0.80	1.12	0.92	1.21	0.98	1.08	1.42	1.40	0.99	0.88		0.77	
30	0.79	1.21	0.92	1.18	0.99	1.07	1.46	1.38	0.99	0.88		0.79	
31		1.23		1.15	1.00		1.44		0.99	0.87		0.78	
MEAN	0.86	0.86	1.11	1.40	1.00	1.12	1.33	2.05	1.15	0.93	0.85	0.80	
MAX	1.33	1.23	1.48	3.66	1.13	1.90	1.90	5.02	1.48	0.99	0.90	0.86	5.02
MIN	0.77	0.73	0.91	0.84	0.91	0.91	1.03	1.20	0.96	0.80	0.75	0.70	0.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.31 M (A.D), AT 9.00 HOURS, ON NOV 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.32 M (A.D)
LEFT BANK ELEVATION 11.40 M (A.D)
RIGHT BANK ELEVATION 6.52 M (A.D), DRAINAGE AREA 846 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.05	1.06	0.27	0.82	0.37	0.52	1.98	1.74	0.37	0.21	0.16	
2	0.17	0.05	0.78	0.28	0.78	0.37	0.49	2.10	1.66	0.37	0.21	0.16	
3	0.16	0.05	0.78	0.28	0.74	0.31	0.55	1.86	1.58	0.39	0.20	0.16	
4	0.16	0.05	1.02	0.27	0.67	0.28	0.64	1.62	1.98	0.39	0.21	0.16	
5	0.15	0.05	2.06	0.27	0.64	0.27	0.86	1.50	2.22	0.37	0.22	0.16	
6	0.15	0.02	2.22	0.27	0.64	0.28	1.06	1.38	1.74	0.37	0.21	0.16	
7	0.15	0.05	1.74	0.17	0.55	0.28	0.70	1.22	1.58	0.37	0.21	0.19	
8	0.13	0.05	1.86	0.28	0.49	0.28	0.67	1.18	1.46	0.36	0.21	0.20	
9	0.10	0.00	1.62	1.46	0.46	0.30	0.64	1.10	1.30	0.34	0.22	0.16	
10	0.10	0.00	1.34	1.86	0.46	0.34	0.64	12.68	1.22	0.34	0.21	0.15	
11	0.10	0.00	1.22	6.52	0.43	0.34	0.78	23.00	1.14	0.36	0.21	0.15	
12	0.07	0.00	1.18	27.58	0.39	0.34	2.40	15.68	1.02	0.36	0.21	0.13	
13	0.05	0.00	1.10	11.24	0.37	0.33	2.94	9.70	0.98	0.36	0.21	0.12	
14	0.07	0.00	0.90	5.35	0.31	0.40	4.90	14.49	0.94	0.34	0.20	0.12	
15	0.07	0.02	0.70	3.82	0.27	0.67	3.96	62.30	0.90	0.33	0.20	0.13	
16	0.22	0.02	0.61	2.66	0.28	0.98	2.82	40.08	0.86	0.31	0.19	0.12	
17	1.10	0.02	0.52	2.06	0.31	4.90	2.40	18.80	0.82	0.30	0.02	0.12	
18	1.62	0.05	0.46	1.70	0.33	3.40	2.02	11.96	0.58	0.31	0.00	0.12	
19	0.33	0.27	0.46	1.38	0.34	2.66	1.74	8.86	0.58	0.27	0.25	0.10	
20	0.24	0.61	0.40	1.18	0.34	1.70	1.50	7.33	0.58	0.27	0.17	0.07	
21	0.24	0.20	0.39	1.06	0.34	1.38	1.34	5.53	0.58	0.27	0.17	0.05	
22	0.22	0.15	0.40	1.30	0.36	1.14	1.34	4.50	0.55	0.27	0.19	0.10	
23	0.22	0.12	0.39	1.82	0.34	1.18	1.82	3.68	0.52	0.27	0.19	0.10	
24	0.21	0.33	0.34	2.22	0.33	1.06	1.90	3.05	0.49	0.28	0.19	0.05	
25	0.16	0.86	0.31	3.75	0.33	0.90	1.70	2.66	0.43	0.27	0.19	0.02	
26	0.13	0.37	0.30	2.26	0.34	0.78	1.78	2.35	0.36	0.12	0.17	0.00	
27	0.12	0.28	0.28	1.70	0.37	0.74	1.78	2.14	0.34	0.21	0.17	0.02	
28	0.12	0.43	0.27	1.34	0.39	0.67	1.90	2.02	0.37	0.17	0.16	0.02	
29	0.12	0.78	0.28	1.14	0.37	0.64	1.98	1.90	0.39	0.22		0.05	
30	0.10	1.14	0.28	1.02	0.39	0.61	2.14	1.82	0.39	0.22		0.10	
31		1.22		0.90	0.40		2.06		0.39	0.21		0.07	
TOTAL	6.94	7.24	25.27	87.41	13.58	27.90	51.97	268.47	29.69	9.39	5.20	3.42	536.48 CMSDAY
MEAN	0.23	0.23	0.84	2.82	0.44	0.93	1.68	8.95	0.96	0.30	0.19	0.11	1.47 CMS
MAX	1.62	1.22	2.22	27.58	0.82	4.90	4.90	62.30	2.22	0.39	0.25	0.20	62.30 CMS
MIN	0.05	0.00	0.27	0.17	0.27	0.27	0.49	1.10	0.34	0.12	0.00	0.00	0.00 CMS
RUNOFF	0.600	0.626	2.183	7.552	1.173	2.411	4.490	23.196	2.565	0.811	0.449	0.295	46.352 MCM

MOMENTARY PEAK 73.90 CMS, AT 5.31 M (A.D), AT 9.00 HOURS, ON NOV 15, 1982

RUNOFF YIELD 1.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PHETCHABURI RIVER BASIN

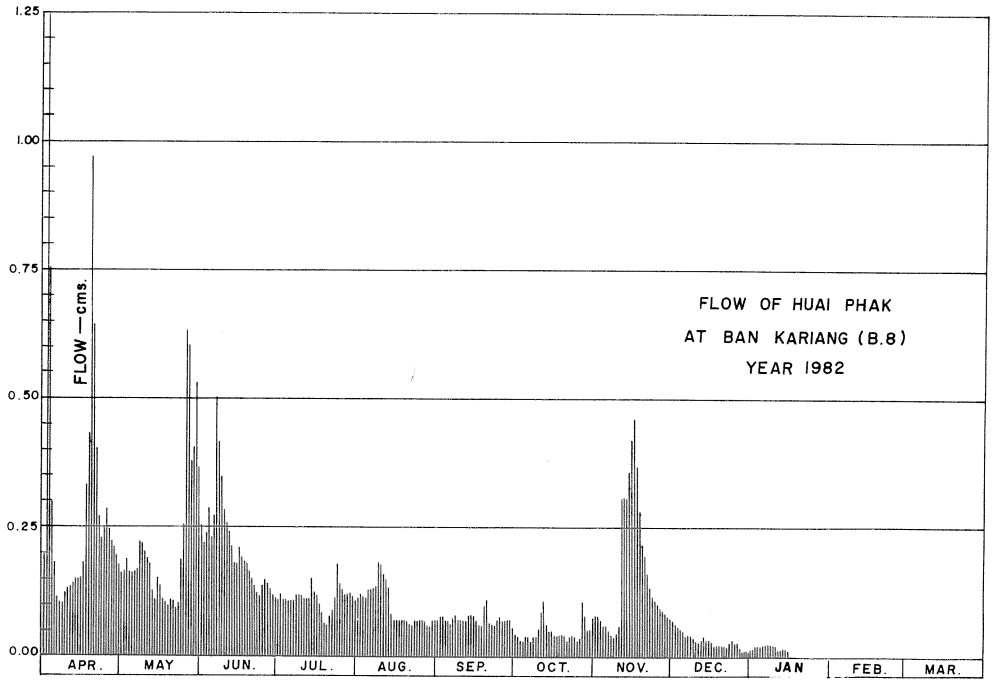
HUAI PHAK AT BAN KARIANG, PHETCHABURI (B.8)

LOCATION	LAT. 12°-48'-49" N., LONG. 99°-41'-32" E., ON LEFT BANK AT BAN KARIANG, TAMBON SONG PHI NONG, AMPHOE THA YANG, PHETCHABURI.
DRAINAGE AREA	264 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+8.879 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1973 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW EFFECTED BY THE WEIR. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.83	1.81	1.88	1.76	1.76	1.71	1.66	1.72	1.71	1.57	1.35	1.15	
2	2.28	1.81	1.85	1.77	1.77	1.72	1.65	1.72	1.70	1.58	1.36	1.13	
3	1.96	1.83	1.86	1.76	1.77	1.72	1.63	1.71	1.69	1.59	1.37	1.11	
4	1.86	1.81	1.90	1.76	1.76	1.71	1.63	1.70	1.68	1.60	1.37	1.13	
5	1.79	1.81	1.86	1.75	1.78	1.71	1.64	1.69	1.67	1.60	1.33	1.14	
6	1.76	1.81	1.90	1.75	1.78	1.70	1.64	1.67	1.66	1.60	1.32	1.14	
7	1.74	1.82	2.01	1.76	1.78	1.72	1.63	1.65	1.65	1.60	1.27	1.14	
8	1.76	1.85	1.96	1.77	1.79	1.72	1.64	1.64	1.66	1.60	1.25	1.16	
9	1.78	1.85	1.92	1.77	1.82	1.71	1.65	1.67	1.66	1.59	1.25	1.16	
10	1.78	1.84	1.90	1.77	1.82	1.71	1.70	1.70	1.63	1.59	1.25	1.17	
11	1.78	1.83	1.88	1.76	1.81	1.71	1.73	1.91	1.62	1.57	1.25	1.17	
12	1.79	1.82	1.87	1.75	1.80	1.71	1.75	1.91	1.63	1.56	1.23	1.16	
13	1.80	1.78	1.85	1.76	1.78	1.72	1.69	1.91	1.64	1.56	1.24	1.14	
14	1.80	1.76	1.82	1.80	1.72	1.72	1.68	1.94	1.62	1.54	1.27	1.13	
15	1.80	1.80	1.82	1.77	1.71	1.72	1.68	1.98	1.63	1.54	1.28	1.12	
16	1.83	1.79	1.84	1.77	1.71	1.69	1.66	1.99	1.62	1.52	1.27	1.11	
17	1.93	1.76	1.83	1.74	1.71	1.70	1.65	1.95	1.60	1.51	1.27	1.09	
18	1.98	1.74	1.82	1.73	1.71	1.70	1.64	1.90	1.60	1.51	1.27	1.08	
19	2.18	1.74	1.82	1.69	1.71	1.75	1.65	1.85	1.60	1.52	1.27	1.07	
20	2.06	1.75	1.81	1.69	1.71	1.76	1.66	1.82	1.61	1.52	1.25	1.06	
21	1.96	1.76	1.79	1.72	1.69	1.70	1.63	1.81	1.61	1.47	1.26	1.06	
22	1.90	1.73	1.78	1.73	1.69	1.70	1.65	1.78	1.60	1.45	1.27	1.05	
23	1.86	1.76	1.77	1.77	1.71	1.70	1.66	1.77	1.60	1.46	1.29	1.05	
24	1.87	1.84	1.77	1.82	1.71	1.71	1.66	1.75	1.62	1.46	1.29	1.04	
25	1.90	1.88	1.79	1.79	1.71	1.72	1.63	1.74	1.62	1.46	1.28	1.04	
26	1.87	2.06	1.80	1.78	1.71	1.71	1.65	1.73	1.58	1.45	1.26	1.03	
27	1.86	2.05	1.79	1.77	1.71	1.71	1.76	1.73	1.58	1.45	1.22	1.02	
28	1.84	1.95	1.78	1.77	1.69	1.71	1.71	1.72	1.56	1.45	1.26	1.02	
29	1.83	1.97	1.77	1.77	1.69	1.71	1.68	1.72	1.55	1.45		1.01	
30	1.82	2.02	1.76	1.77	1.71	1.67	1.69	1.71	1.54	1.37		1.00	
31		1.93		1.76	1.71		1.72		1.54	1.34		1.00	
MEAN	1.87	1.84	1.84	1.76	1.74	1.71	1.67	1.78	1.62	1.52	1.28	1.09	
MAX	2.28	2.06	2.01	1.82	1.82	1.76	1.76	1.99	1.71	1.60	1.37	1.17	2.28
MIN	1.74	1.73	1.76	1.69	1.69	1.67	1.63	1.64	1.54	1.34	1.22	1.00	1.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.52 M (A.D), AT 3.00 HOURS, ON APR 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.38 M (A.D)
LEFT BANK ELEVATION 7.01 M (A.D)
RIGHT BANK ELEVATION 6.54 M (A.D), DRAINAGE AREA 264 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.16	0.26	0.11	0.11	0.07	0.04	0.08	0.07	0.01	0.00	0.00	
2	1.29	0.16	0.22	0.12	0.12	0.08	0.04	0.08	0.06	0.02	0.00	0.00	
3	0.40	0.19	0.23	0.11	0.12	0.08	0.03	0.07	0.06	0.02	0.00	0.00	
4	0.23	0.16	0.29	0.11	0.11	0.07	0.03	0.06	0.05	0.02	0.00	0.00	
5	0.14	0.16	0.23	0.11	0.13	0.07	0.04	0.06	0.05	0.02	0.00	0.00	
6	0.11	0.16	0.29	0.11	0.13	0.06	0.04	0.05	0.04	0.02	0.00	0.00	
7	0.10	0.18	0.51	0.11	0.13	0.08	0.03	0.04	0.04	0.02	0.00	0.00	
8	0.11	0.22	0.40	0.12	0.14	0.08	0.04	0.04	0.04	0.02	0.00	0.00	
9	0.13	0.22	0.33	0.12	0.18	0.07	0.04	0.05	0.04	0.02	0.00	0.00	
10	0.13	0.21	0.29	0.12	0.18	0.07	0.06	0.06	0.03	0.02	0.00	0.00	
11	0.13	0.19	0.26	0.11	0.16	0.07	0.09	0.31	0.03	0.01	0.00	0.00	
12	0.14	0.18	0.25	0.11	0.15	0.07	0.11	0.31	0.03	0.01	0.00	0.00	
13	0.15	0.13	0.22	0.11	0.13	0.08	0.06	0.31	0.04	0.01	0.00	0.00	
14	0.15	0.11	0.18	0.15	0.08	0.08	0.05	0.37	0.03	0.01	0.00	0.00	
15	0.15	0.15	0.18	0.12	0.07	0.08	0.05	0.44	0.03	0.01	0.00	0.00	
16	0.19	0.14	0.21	0.12	0.07	0.06	0.04	0.46	0.03	0.00	0.00	0.00	
17	0.35	0.11	0.19	0.10	0.07	0.06	0.04	0.39	0.02	0.00	0.00	0.00	
18	0.44	0.10	0.18	0.09	0.07	0.06	0.04	0.29	0.02	0.00	0.00	0.00	
19	0.97	0.10	0.18	0.06	0.07	0.11	0.04	0.22	0.02	0.00	0.00	0.00	
20	0.63	0.11	0.16	0.06	0.07	0.11	0.04	0.18	0.02	0.00	0.00	0.00	
21	0.40	0.11	0.14	0.08	0.06	0.06	0.03	0.16	0.02	0.00	0.00	0.00	
22	0.29	0.09	0.13	0.09	0.06	0.06	0.04	0.13	0.02	0.00	0.00	0.00	
23	0.23	0.11	0.12	0.12	0.07	0.06	0.04	0.12	0.02	0.00	0.00	0.00	
24	0.25	0.21	0.12	0.18	0.07	0.07	0.04	0.11	0.03	0.00	0.00	0.00	
25	0.29	0.26	0.14	0.14	0.07	0.08	0.03	0.10	0.03	0.00	0.00	0.00	
26	0.25	0.63	0.15	0.13	0.07	0.07	0.04	0.09	0.02	0.00	0.00	0.00	
27	0.23	0.61	0.14	0.12	0.07	0.07	0.11	0.09	0.02	0.00	0.00	0.00	
28	0.21	0.39	0.13	0.12	0.06	0.07	0.07	0.08	0.01	0.00	0.00	0.00	
29	0.19	0.42	0.12	0.12	0.06	0.07	0.05	0.08	0.01	0.00		0.00	
30	0.18	0.53	0.11	0.12	0.07	0.05	0.06	0.07	0.01	0.00		0.00	
31		0.35		0.11	0.07		0.08		0.01	0.00		0.00	
TOTAL	8.65	6.85	6.36	3.50	3.02	2.17	1.54	4.90	0.95	0.24	0.00	0.00	38.18 CMSDAY
MEAN	0.29	0.22	0.21	0.11	0.10	0.07	0.05	0.16	0.03	0.01	0.00	0.00	0.10 CMS
MAX	1.29	0.63	0.51	0.18	0.18	0.11	0.11	0.46	0.07	0.02	0.00	0.00	1.29 CMS
MIN	0.10	0.09	0.11	0.06	0.06	0.05	0.03	0.04	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.747	0.592	0.550	0.302	0.261	0.187	0.133	0.423	0.082	0.021	0.000	0.000	3.299 MCM

MOMENTARY PEAK 2.24 CMS, AT 2.52 M (A.D), AT 3.00 HOURS, ON APR 2, 1982

RUNOFF YIELD 0.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 8.47 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

PRAN BURI RIVER BASIN

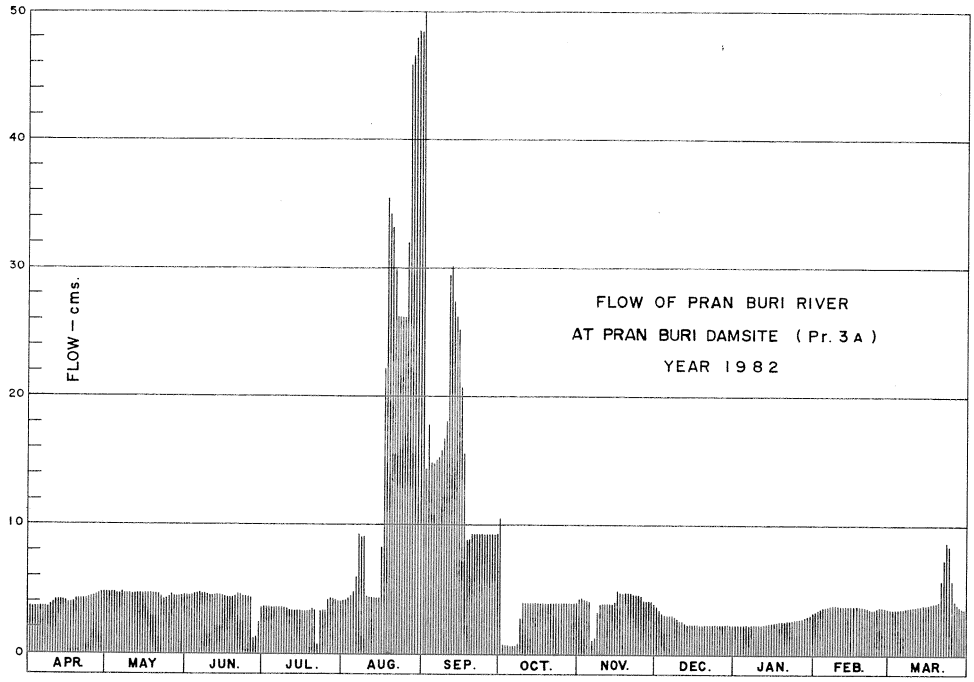
PRAN BURI RIVER AT PRAN BURI DAMSITE, PRACHUAP KHIRI KHAN (PR.3A)

LOCATION	LAT. 12°-23'-59" N., LONG. 99°-48'-37" E., ON RIGHT BANK ABOUT 1.5 KILOMETERS DOWNSTREAM FROM PRAN DAMSITE, AMPHOE PRAN BURI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	2,067 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	13.80 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+26.267 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1968 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968 - 1979.
RATED BY FLOAT	-
RATED BY CURRENT METER	1968 - 1979.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 1,806 DISCHARGE MEASUREMENTS MADE DURING 1970 - 1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.60	15.71	15.69	15.60	15.65	18.12	16.17	15.67	15.60	15.47	15.57	15.60	
2	15.60	15.71	15.68	15.60	15.65	16.41	15.20	15.67	15.58	15.47	15.58	15.59	
3	15.60	15.71	15.69	15.60	15.66	16.62	15.20	15.66	15.55	15.47	15.60	15.59	
4	15.60	15.71	15.70	15.60	15.68	16.44	15.20	15.66	15.54	15.47	15.60	15.59	
5	15.60	15.70	15.70	15.60	15.71	16.44	15.20	15.65	15.54	15.47	15.61	15.60	
6	15.60	15.70	15.69	15.60	15.81	16.45	15.20	15.26	15.54	15.47	15.61	15.60	
7	15.60	15.71	15.69	15.60	16.08	16.47	15.20	15.33	15.54	15.47	15.62	15.60	
8	15.60	15.71	15.69	15.59	16.06	16.51	15.20	15.55	15.53	15.47	15.62	15.61	
9	15.61	15.70	15.69	15.59	15.92	16.58	15.50	15.63	15.53	15.47	15.62	15.61	
10	15.63	15.70	15.68	15.59	15.68	16.67	15.64	15.63	15.50	15.47	15.62	15.61	
11	15.65	15.70	15.68	15.57	15.67	17.19	15.64	15.63	15.50	15.47	15.61	15.62	
12	15.65	15.70	15.69	15.57	15.67	17.22	15.64	15.63	15.47	15.47	15.61	15.61	
13	15.65	15.70	15.69	15.57	15.67	17.10	15.64	15.63	15.47	15.48	15.61	15.62	
14	15.65	15.71	15.69	15.57	15.67	17.05	15.64	15.63	15.47	15.48	15.61	15.62	
15	15.64	15.70	15.69	15.58	15.67	17.00	15.64	15.63	15.47	15.48	15.61	15.63	
16	15.63	15.70	15.68	15.57	16.01	16.50	15.64	15.74	15.47	15.49	15.61	15.63	
17	15.63	15.70	15.68	15.57	16.97	16.50	15.64	15.72	15.47	15.49	15.62	15.63	
18	15.63	15.70	15.68	15.57	17.45	16.05	15.64	15.72	15.47	15.49	15.62	15.64	
19	15.65	15.70	15.68	15.57	17.40	16.05	15.64	15.72	15.47	15.50	15.61	15.65	
20	15.66	15.70	15.68	15.59	17.35	16.08	15.64	15.72	15.47	15.50	15.61	15.65	
21	15.66	15.70	15.70	15.58	17.22	16.08	15.64	15.72	15.47	15.50	15.60	15.78	
22	15.66	15.68	15.69	15.18	17.05	16.08	15.64	15.70	15.47	15.50	15.60	15.95	
23	15.66	15.65	15.68	15.57	17.05	16.08	15.64	15.70	15.47	15.51	15.59	16.04	
24	15.67	15.66	15.67	15.57	17.05	16.08	15.64	15.70	15.47	15.51	15.59	16.00	
25	15.67	15.68	15.67	15.57	17.05	16.08	15.64	15.70	15.47	15.51	15.60	15.86	
26	15.68	15.70	15.67	15.65	17.40	16.08	15.64	15.65	15.47	15.52	15.61	15.66	
27	15.69	15.68	15.30	15.67	17.87	16.08	15.64	15.65	15.47	15.52	15.61	15.62	
28	15.70	15.68	15.30	15.67	17.92	16.08	15.64	15.65	15.47	15.53	15.61	15.61	
29	15.72	15.68	15.49	15.65	17.96	16.08	15.64	15.65	15.47	15.54		15.59	
30	15.71	15.68	15.60	15.65	17.98	16.08	15.64	15.65	15.47	15.55		15.59	
31		15.68		15.65	17.97		15.64		15.47	15.55		15.59	
MEAN	15.64	15.69	15.65	15.58	16.58	16.47	15.55	15.64	15.50	15.49	15.61	15.66	
MAX	15.72	15.71	15.70	15.67	17.98	18.12	16.17	15.74	15.60	15.55	15.62	16.04	18.12
MIN	15.60	15.65	15.30	15.18	15.65	16.05	15.20	15.26	15.47	15.47	15.57	15.59	15.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.12 M (MSL), AT 6.00 HOURS, ON SEP 1, 1982
ZERO GAGE AT BOTTOM ELEVATION 13.80 M (MSL), RIVER BED 13.35 M (MSL)
LEFT BANK ELEVATION 26.31 M (MSL)
RIGHT BANK ELEVATION 26.74 M (MSL), DRAINAGE AREA 2067 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.60	4.70	4.50	3.60	4.10	52.12	10.58	4.30	3.60	2.36	3.30	3.60	
2	3.60	4.70	4.40	3.60	4.10	14.36	0.70	4.30	3.40	2.36	3.40	3.50	
3	3.60	4.70	4.50	3.60	4.20	17.86	0.70	4.20	3.10	2.36	3.60	3.50	
4	3.60	4.70	4.60	3.60	4.40	14.84	0.70	4.20	3.00	2.36	3.60	3.50	
5	3.60	4.60	4.60	3.60	4.70	14.84	0.70	4.10	3.00	2.36	3.70	3.60	
6	3.60	4.60	4.50	3.60	5.72	15.00	0.70	1.00	3.00	2.36	3.70	3.60	
7	3.60	4.70	4.50	3.60	9.32	15.32	0.70	1.38	3.00	2.36	3.80	3.60	
8	3.60	4.70	4.50	3.50	9.04	15.97	0.70	3.10	2.90	2.36	3.80	3.70	
9	3.70	4.60	4.50	3.50	7.08	17.16	2.60	3.90	2.90	2.36	3.80	3.70	
10	3.90	4.60	4.40	3.50	4.40	18.76	4.00	3.90	2.60	2.36	3.80	3.70	
11	4.10	4.60	4.40	3.30	4.30	29.47	4.00	3.90	2.60	2.36	3.70	3.80	
12	4.10	4.60	4.50	3.30	4.30	30.16	4.00	3.90	2.36	2.36	3.70	3.70	
13	4.10	4.60	4.50	3.30	4.30	27.40	4.00	3.90	2.36	2.44	3.70	3.80	
14	4.10	4.70	4.50	3.30	4.30	26.25	4.00	3.90	2.36	2.44	3.70	3.80	
15	4.00	4.60	4.50	3.40	4.30	25.10	4.00	3.90	2.36	2.44	3.70	3.90	
16	3.90	4.60	4.40	3.30	8.34	15.80	4.00	5.00	2.36	2.52	3.70	3.90	
17	3.90	4.60	4.40	3.30	24.50	15.80	4.00	4.80	2.36	2.52	3.80	3.90	
18	3.90	4.60	4.40	3.30	35.45	8.90	4.00	4.80	2.36	2.52	3.80	4.00	
19	4.10	4.60	4.40	3.30	34.30	8.90	4.00	4.80	2.36	2.60	3.70	4.10	
20	4.20	4.60	4.40	3.50	33.15	9.32	4.00	4.80	2.36	2.60	3.70	4.10	
21	4.20	4.60	4.60	3.40	30.16	9.32	4.00	4.80	2.36	2.60	3.60	5.40	
22	4.20	4.40	4.50	0.62	26.25	9.32	4.00	4.60	2.36	2.60	3.60	7.50	
23	4.20	4.10	4.40	3.30	26.25	9.32	4.00	4.60	2.36	2.70	3.50	8.76	
24	4.30	4.20	4.30	3.30	26.25	9.32	4.00	4.60	2.36	2.70	3.50	8.20	
25	4.30	4.40	4.30	3.30	26.25	9.32	4.00	4.60	2.36	2.70	3.60	6.32	
26	4.40	4.60	4.30	4.10	34.30	9.32	4.00	4.10	2.36	2.80	3.70	4.20	
27	4.50	4.40	1.20	4.30	45.75	9.32	4.00	4.10	2.36	2.80	3.70	3.80	
28	4.60	4.40	1.20	4.30	47.00	9.32	4.00	4.10	2.36	2.90	3.70	3.70	
29	4.80	4.40	2.52	4.10	48.00	9.32	4.00	4.10	2.36	3.00		3.50	
30	4.70	4.40	3.60	4.10	48.50	9.32	4.00	4.10	2.36	3.10		3.50	
31		4.40		4.10	48.25		4.00		2.36	3.10		3.50	
TOTAL	121.00	141.00	124.32	107.92	621.26	486.53	106.08	121.78	80.30	79.40	102.60	133.38	2225.57 CMSDAY
MEAN	4.03	4.55	4.14	3.48	20.04	16.22	3.42	4.06	2.59	2.56	3.66	4.30	6.10 CMS
MAX	4.80	4.70	4.60	4.30	48.50	52.12	10.58	5.00	3.60	3.10	3.80	8.76	52.12 CMS
MIN	3.60	4.10	1.20	0.62	4.10	8.90	0.70	1.00	2.36	2.36	3.30	3.50	0.62 CMS
RUNOFF	10.454	12.182	10.741	9.324	53.677	42.036	9.165	10.522	6.938	6.860	8.865	11.524	192.289 MCM

MOMENTARY PEAK 52.12 CMS, AT 18.12 M (MSL), AT 6.00 HOURS, ON SEP 1, 1982

RUNOFF YIELD 2.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 25.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

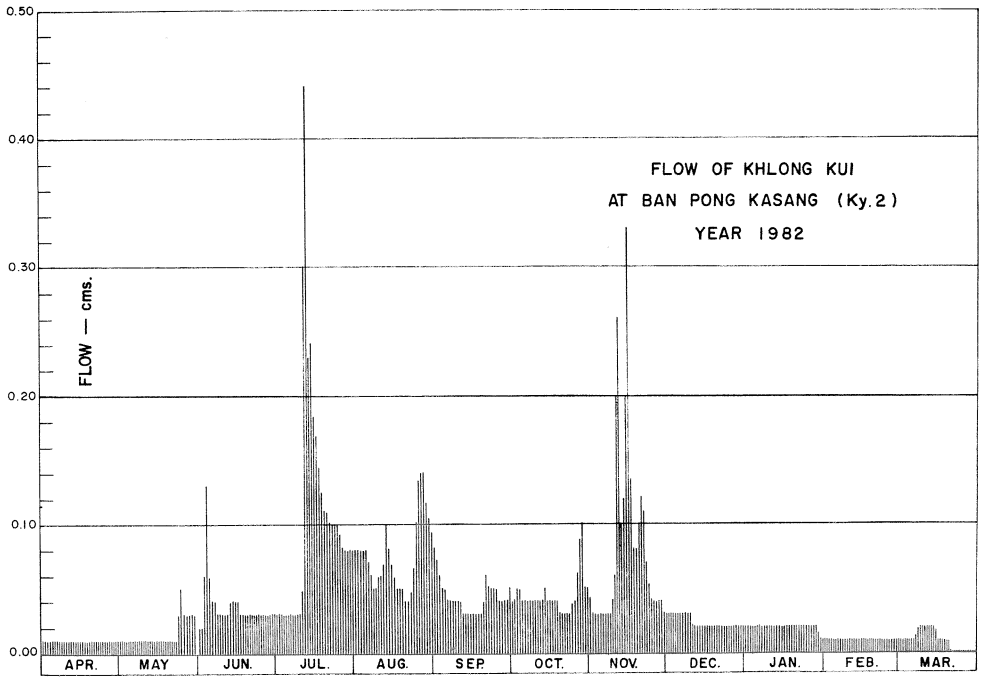
KHLONG KUI AT BAN PONG KASANG, PRACHUAP KHIRI KHAN (KY.2)

LOCATION	LAT. 12°-06'-55" N., LONG. 99°-44'-20" E., ON RIGHT BANK AT THE CULVERT OF THE LEFT IRRIGATION CANAL OF YANG CHUM PROJECT, BAN PONG KASANG, TAMBON HAT KHAM, AMPHOE KUI BURI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	92 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK AT THE MEASURING LINE.
ELEVATION	+7.405 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE DURING 1980 - 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.21	0.20	0.35	0.39	0.54	0.53	0.42	0.42	0.40	0.28	0.25	0.25	
2	0.21	0.20	0.35	0.39	0.54	0.51	0.44	0.41	0.41	0.28	0.25	0.25	
3	0.20	0.20	0.61	0.39	0.54	0.49	0.46	0.41	0.41	0.28	0.25	0.25	
4	0.20	0.20	0.55	0.38	0.54	0.47	0.46	0.40	0.40	0.27	0.25	0.25	
5	0.20	0.20	0.48	0.38	0.53	0.46	0.45	0.39	0.40	0.27	0.25	0.25	
6	0.20	0.20	0.45	0.38	0.52	0.45	0.45	0.37	0.39	0.27	0.25	0.25	
7	0.20	0.21	0.43	0.38	0.49	0.45	0.45	0.37	0.38	0.27	0.25	0.25	
8	0.20	0.22	0.41	0.38	0.48	0.45	0.44	0.36	0.38	0.27	0.25	0.26	
9	0.20	0.22	0.41	0.38	0.48	0.45	0.43	0.36	0.37	0.27	0.25	0.26	
10	0.20	0.20	0.41	0.38	0.49	0.44	0.43	0.49	0.36	0.27	0.25	0.26	
11	0.20	0.22	0.40	0.46	0.49	0.43	0.44	0.71	0.35	0.26	0.25	0.26	
12	0.20	0.23	0.40	0.81	0.52	0.41	0.43	0.61	0.35	0.26	0.25	0.26	
13	0.20	0.23	0.42	0.69	0.56	0.41	0.45	0.56	0.34	0.26	0.25	0.26	
14	0.20	0.23	0.44	0.70	0.54	0.40	0.48	0.60	0.33	0.26	0.25	0.26	
15	0.20	0.24	0.44	0.66	0.52	0.40	0.45	0.75	0.32	0.26	0.25	0.26	
16	0.20	0.25	0.43	0.65	0.49	0.39	0.43	0.64	0.32	0.26	0.25	0.25	
17	0.20	0.23	0.41	0.63	0.48	0.38	0.43	0.58	0.32	0.27	0.25	0.24	
18	0.20	0.21	0.40	0.61	0.48	0.38	0.43	0.54	0.31	0.26	0.25	0.22	
19	0.20	0.20	0.38	0.60	0.47	0.38	0.42	0.54	0.31	0.26	0.25	0.19	
20	0.22	0.20	0.37	0.59	0.45	0.43	0.41	0.60	0.31	0.26	0.25	0.16	
21	0.23	0.20	0.38	0.58	0.45	0.49	0.40	0.58	0.31	0.26	0.25	0.00	
22	0.23	0.19	0.37	0.57	0.45	0.48	0.40	0.53	0.31	0.26	0.25	0.00	
23	0.22	0.19	0.37	0.57	0.47	0.48	0.40	0.50	0.30	0.26	0.25	0.00	
24	0.20	0.48	0.38	0.57	0.52	0.47	0.40	0.47	0.30	0.26	0.25	0.00	
25	0.20	0.45	0.39	0.57	0.61	0.47	0.43	0.45	0.29	0.26	0.25	0.00	
26	0.20	0.41	0.39	0.55	0.62	0.44	0.44	0.44	0.29	0.26	0.25	0.00	
27	0.20	0.39	0.40	0.54	0.62	0.43	0.53	0.43	0.29	0.26	0.25	0.00	
28	0.20	0.38	0.40	0.54	0.60	0.42	0.57	0.43	0.29	0.26	0.25	0.00	
29	0.20	0.37	0.39	0.54	0.58	0.42	0.53	0.42	0.28	0.26		0.00	
30	0.20	0.36	0.39	0.53	0.57	0.48	0.48	0.41	0.28	0.25		0.00	
31		0.04		0.53	0.55		0.46		0.28	0.25		0.00	
MEAN	0.20	0.25	0.41	0.53	0.52	0.44	0.45	0.49	0.33	0.26	0.25	0.16	
MAX	0.23	0.48	0.61	0.81	0.62	0.53	0.57	0.75	0.41	0.28	0.25	0.26	0.81
MIN	0.20	0.04	0.35	0.38	0.45	0.38	0.40	0.36	0.28	0.25	0.25	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.09 M (A.D), AT 21.00 HOURS, ON SEP 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.01 M (A.D)
LEFT BANK ELEVATION 5.20 M (A.D)
RIGHT BANK ELEVATION 7.50 M (A.D), DRAINAGE AREA 92 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.01	0.03	0.03	0.08	0.08	0.04	0.04	0.03	0.02	0.02	0.02	
2	0.01	0.01	0.03	0.03	0.08	0.07	0.04	0.03	0.03	0.02	0.02	0.02	
3	0.01	0.01	0.13	0.03	0.08	0.06	0.05	0.03	0.03	0.02	0.02	0.02	
4	0.01	0.01	0.09	0.03	0.08	0.05	0.05	0.03	0.03	0.02	0.02	0.02	
5	0.01	0.01	0.05	0.03	0.08	0.05	0.04	0.03	0.03	0.02	0.02	0.02	
6	0.01	0.01	0.04	0.03	0.07	0.04	0.04	0.03	0.03	0.02	0.02	0.02	
7	0.01	0.01	0.04	0.03	0.06	0.04	0.04	0.03	0.03	0.02	0.02	0.02	
8	0.01	0.01	0.03	0.03	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02	
9	0.01	0.01	0.03	0.03	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02	
10	0.01	0.01	0.03	0.03	0.06	0.04	0.04	0.06	0.03	0.02	0.02	0.02	
11	0.01	0.01	0.03	0.05	0.06	0.04	0.04	0.26	0.03	0.02	0.02	0.02	
12	0.01	0.01	0.03	0.44	0.07	0.03	0.04	0.13	0.03	0.02	0.02	0.02	
13	0.01	0.01	0.04	0.23	0.10	0.03	0.04	0.10	0.02	0.02	0.02	0.02	
14	0.01	0.01	0.04	0.24	0.08	0.03	0.05	0.12	0.02	0.02	0.02	0.02	
15	0.01	0.01	0.04	0.19	0.07	0.03	0.04	0.33	0.02	0.02	0.02	0.02	
16	0.01	0.02	0.04	0.18	0.06	0.03	0.04	0.17	0.02	0.02	0.02	0.02	
17	0.01	0.01	0.03	0.16	0.05	0.03	0.04	0.11	0.02	0.02	0.02	0.01	
18	0.01	0.01	0.03	0.13	0.05	0.03	0.04	0.08	0.02	0.02	0.02	0.01	
19	0.01	0.01	0.03	0.12	0.05	0.03	0.04	0.08	0.02	0.02	0.02	0.01	
20	0.01	0.01	0.03	0.11	0.04	0.04	0.03	0.12	0.02	0.02	0.02	0.01	
21	0.01	0.01	0.03	0.11	0.04	0.06	0.03	0.11	0.02	0.02	0.02	0.00	
22	0.01	0.01	0.03	0.10	0.04	0.05	0.03	0.08	0.02	0.02	0.02	0.00	
23	0.01	0.01	0.03	0.10	0.05	0.05	0.03	0.06	0.02	0.02	0.02	0.00	
24	0.01	0.05	0.03	0.10	0.07	0.05	0.03	0.05	0.02	0.02	0.02	0.00	
25	0.01	0.04	0.03	0.10	0.13	0.05	0.04	0.04	0.02	0.02	0.02	0.00	
26	0.01	0.03	0.03	0.09	0.14	0.04	0.04	0.04	0.02	0.02	0.02	0.00	
27	0.01	0.03	0.03	0.08	0.14	0.04	0.08	0.04	0.02	0.02	0.02	0.00	
28	0.01	0.03	0.03	0.08	0.12	0.04	0.10	0.04	0.02	0.02	0.02	0.00	
29	0.01	0.03	0.03	0.08	0.11	0.04	0.08	0.04	0.02	0.02		0.00	
30	0.01	0.03	0.03	0.08	0.10	0.05	0.05	0.03	0.02	0.02		0.00	
31		0.00		0.08	0.09		0.05		0.02	0.02		0.00	
TOTAL	0.30	0.48	1.14	3.15	2.35	1.30	1.38	2.37	0.74	0.62	0.56	0.36	14.75 CMSDAY
MEAN	0.01	0.02	0.04	0.10	0.08	0.04	0.04	0.08	0.02	0.02	0.02	0.01	0.04 CMS
MAX	0.01	0.05	0.13	0.44	0.14	0.08	0.10	0.33	0.03	0.02	0.02	0.02	0.44 CMS
MIN	0.01	0.00	0.03	0.03	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.00	0.00 CMS
RUNOFF	0.026	0.041	0.098	0.272	0.203	0.112	0.119	0.205	0.064	0.054	0.048	0.031	1.274 MCM

MOMENTARY PEAK 1.31 CMS, AT 1.09 M (A.D), AT 21.00 HOURS, ON SEP 11, 1982
RUNOFF YIELD 0.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.20 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

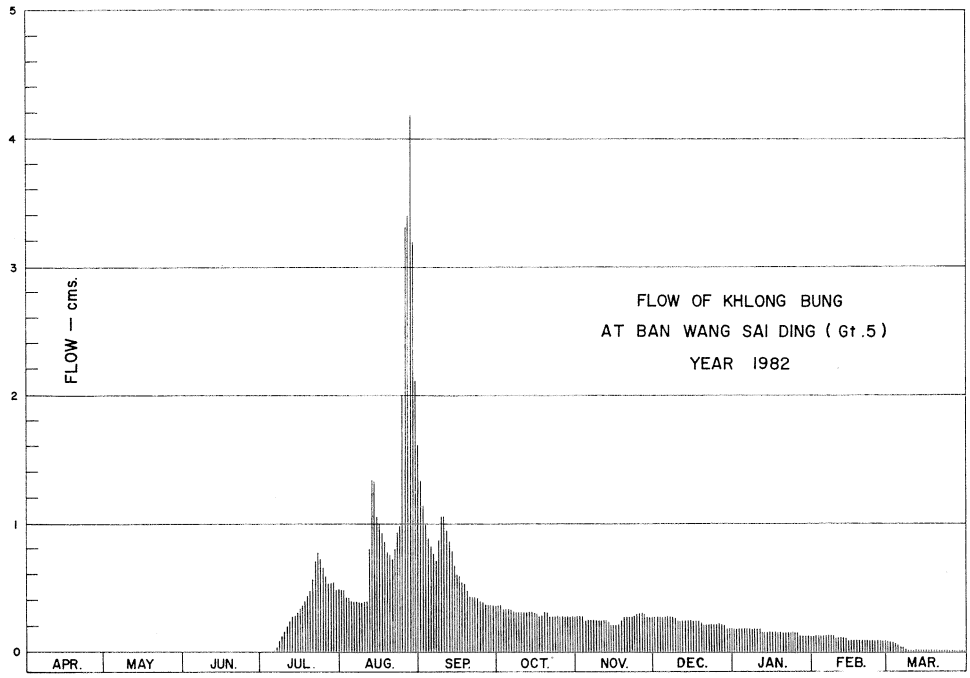
KHLONG BUNG AT BAN WANG SAI DING, PRACHUAP KHIRI KHAN (GT.5)

LOCATION	LAT. 11°-55'-46" N., LONG. 99°-42'-56" E., ON RIGHT BANK AT BAN WANG SAI DING, TAMBON AO NOI, AMPHOE MUANG, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	141 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 3 METERS EAST OF STATION OFFICE.
ELEVATION	+5.665 M.(A.D.)
GAGE READING FREQUENCY	16-TIME DAILY READINGS AT 03.00, 06.00-18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 16 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1975 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1975 - 1979, 1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1975 - 1979, 1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. NO RECORDS DURING APR.27 - JUN.19, 1982. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.78	0.00	0.00	1.19	1.91	2.06	1.88	1.85	1.85	1.82	1.80	1.76	
2	0.75	0.00	0.00	1.32	1.91	2.02	1.88	1.85	1.85	1.82	1.80	1.76	
3	0.69	0.00	0.00	1.44	1.90	2.00	1.87	1.85	1.85	1.82	1.80	1.76	
4	0.63	0.00	0.00	1.54	1.90	1.98	1.87	1.84	1.85	1.82	1.80	1.75	
5	0.58	0.00	0.00	1.60	1.89	1.97	1.87	1.84	1.85	1.82	1.80	1.74	
6	0.53	0.00	0.00	1.66	1.89	1.96	1.87	1.84	1.85	1.82	1.80	1.73	
7	0.49	0.00	0.00	1.72	1.89	1.95	1.86	1.84	1.85	1.82	1.80	1.72	
8	0.45	0.00	0.00	1.77	1.89	1.98	1.86	1.84	1.85	1.82	1.80	1.72	
9	0.42	0.00	0.00	1.80	1.89	2.01	1.86	1.84	1.85	1.82	1.80	1.69	
10	0.44	0.00	0.00	1.81	1.89	2.01	1.86	1.84	1.84	1.82	1.79	1.65	
11	0.45	0.00	0.00	1.83	1.89	1.99	1.86	1.84	1.84	1.82	1.79	1.60	
12	0.42	0.00	0.00	1.84	1.97	1.98	1.86	1.84	1.84	1.81	1.79	1.54	
13	0.39	0.00	0.00	1.85	2.05	1.96	1.86	1.84	1.84	1.81	1.79	1.47	
14	0.35	0.00	0.00	1.85	2.05	1.94	1.86	1.83	1.84	1.81	1.79	1.38	
15	0.32	0.00	0.00	1.86	2.01	1.93	1.86	1.83	1.84	1.81	1.78	1.24	
16	0.29	0.00	0.00	1.87	2.00	1.93	1.86	1.83	1.84	1.81	1.78	1.13	
17	0.25	0.00	0.00	1.88	1.99	1.92	1.85	1.83	1.84	1.81	1.78	1.00	
18	0.22	0.00	0.00	1.89	1.98	1.92	1.85	1.84	1.84	1.81	1.78	0.90	
19	0.34	0.00	0.00	1.90	1.96	1.91	1.86	1.85	1.84	1.81	1.78	0.80	
20	0.49	0.00	0.02	1.91	1.96	1.90	1.86	1.85	1.83	1.81	1.78	0.70	
21	0.46	0.00	0.08	1.93	1.95	1.90	1.85	1.85	1.83	1.81	1.77	0.62	
22	0.51	0.00	0.11	1.95	1.97	1.90	1.85	1.85	1.83	1.81	1.77	0.55	
23	0.42	0.00	0.20	1.96	1.99	1.90	1.85	1.85	1.83	1.81	1.77	0.50	
24	0.30	0.00	0.32	1.95	2.00	1.89	1.85	1.86	1.83	1.81	1.77	0.46	
25	0.16	0.00	0.39	1.94	2.11	1.89	1.85	1.86	1.83	1.81	1.77	0.42	
26	0.03	0.00	0.45	1.93	2.28	1.88	1.85	1.86	1.83	1.81	1.77	0.38	
27	0.00	0.00	0.52	1.92	2.29	1.88	1.85	1.86	1.83	1.80	1.77	0.35	
28	0.00	0.00	0.69	1.92	2.36	1.88	1.85	1.85	1.83	1.80	1.77	0.32	
29	0.00	0.00	0.90	1.92	2.24	1.88	1.85	1.85	1.82	1.80		0.30	
30	0.00	0.00	1.05	1.91	2.15	1.88	1.85	1.85	1.82	1.80		0.26	
31		0.00		1.91	2.09		1.85		1.82	1.80		0.22	
MEAN	0.37	0.00	0.16	1.80	2.01	1.94	1.86	1.84	1.84	1.81	1.79	1.08	
MAX	0.78	0.00	1.05	1.96	2.36	2.06	1.88	1.86	1.85	1.82	1.80	1.76	2.36
MIN	0.00	0.00	0.00	1.19	1.89	1.88	1.85	1.83	1.82	1.80	1.77	0.22	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.41 M (A.D), AT 9.00 HOURS, ON AUG 28, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 5.45 M (A.D)
RIGHT BANK ELEVATION 5.47 M (A.D), DRAINAGE AREA 141 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.49	1.42	0.37	0.28	0.28	0.19	0.13	0.08	
2	0.00	0.00	0.00	0.00	0.49	1.13	0.37	0.28	0.28	0.19	0.13	0.08	
3	0.00	0.00	0.00	0.00	0.43	0.99	0.34	0.28	0.28	0.19	0.13	0.08	
4	0.00	0.00	0.00	0.00	0.43	0.88	0.34	0.25	0.28	0.19	0.13	0.07	
5	0.00	0.00	0.00	0.00	0.40	0.82	0.34	0.25	0.28	0.19	0.13	0.05	
6	0.00	0.00	0.00	0.00	0.40	0.77	0.34	0.25	0.28	0.19	0.13	0.04	
7	0.00	0.00	0.00	0.03	0.40	0.71	0.31	0.25	0.28	0.19	0.13	0.03	
8	0.00	0.00	0.00	0.09	0.40	0.88	0.31	0.25	0.28	0.19	0.13	0.03	
9	0.00	0.00	0.00	0.13	0.40	1.06	0.31	0.25	0.28	0.19	0.13	0.00	
10	0.00	0.00	0.00	0.16	0.40	1.06	0.31	0.25	0.25	0.19	0.12	0.00	
11	0.00	0.00	0.00	0.22	0.40	0.93	0.31	0.25	0.25	0.19	0.12	0.00	
12	0.00	0.00	0.00	0.25	0.82	0.88	0.31	0.25	0.25	0.16	0.12	0.00	
13	0.00	0.00	0.00	0.28	1.35	0.77	0.31	0.25	0.25	0.16	0.12	0.00	
14	0.00	0.00	0.00	0.28	1.35	0.65	0.31	0.22	0.25	0.16	0.12	0.00	
15	0.00	0.00	0.00	0.31	1.06	0.60	0.31	0.22	0.25	0.16	0.10	0.00	
16	0.00	0.00	0.00	0.34	0.99	0.60	0.31	0.22	0.25	0.16	0.10	0.00	
17	0.00	0.00	0.00	0.37	0.93	0.54	0.28	0.22	0.25	0.16	0.10	0.00	
18	0.00	0.00	0.00	0.40	0.88	0.54	0.28	0.25	0.25	0.16	0.10	0.00	
19	0.00	0.00	0.00	0.43	0.77	0.49	0.31	0.28	0.25	0.16	0.10	0.00	
20	0.00	0.00	0.00	0.49	0.77	0.43	0.31	0.28	0.22	0.16	0.10	0.00	
21	0.00	0.00	0.00	0.60	0.71	0.43	0.28	0.28	0.22	0.16	0.09	0.00	
22	0.00	0.00	0.00	0.71	0.82	0.43	0.28	0.28	0.22	0.16	0.09	0.00	
23	0.00	0.00	0.00	0.77	0.93	0.43	0.28	0.28	0.22	0.16	0.09	0.00	
24	0.00	0.00	0.00	0.71	0.99	0.40	0.28	0.31	0.22	0.16	0.09	0.00	
25	0.00	0.00	0.00	0.65	1.79	0.40	0.28	0.31	0.22	0.16	0.09	0.00	
26	0.00	0.00	0.00	0.60	3.32	0.37	0.28	0.31	0.22	0.16	0.09	0.00	
27	0.00	0.00	0.00	0.54	3.42	0.37	0.28	0.31	0.22	0.13	0.09	0.00	
28	0.00	0.00	0.00	0.54	4.18	0.37	0.28	0.28	0.22	0.13	0.09	0.00	
29	0.00	0.00	0.00	0.54	2.95	0.37	0.28	0.28	0.19	0.13		0.00	
30	0.00	0.00	0.00	0.49	2.14	0.37	0.28	0.28	0.19	0.13		0.00	
31		0.00		0.49	1.63		0.28		0.19	0.13		0.00	
TOTAL	0.00	0.00	0.00	10.42	36.44	20.09	9.46	7.95	7.57	5.14	3.09	0.46	100.62 CMSDAY
MEAN	0.00	0.00	0.00	0.34	1.18	0.67	0.31	0.27	0.24	0.17	0.11	0.01	0.28 CMS
MAX	0.00	0.00	0.00	0.77	4.18	1.42	0.37	0.31	0.28	0.19	0.13	0.08	4.18 CMS
MIN	0.00	0.00	0.00	0.00	0.40	0.37	0.28	0.22	0.19	0.13	0.09	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.900	3.148	1.736	0.817	0.687	0.654	0.444	0.267	0.040	8.694 MCM

MOMENTARY PEAK 4.74 CMS, AT 2.41 M (A.D), AT 9.00 HOURS, ON AUG 28, 1982

RUNOFF YIELD 1.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 33.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

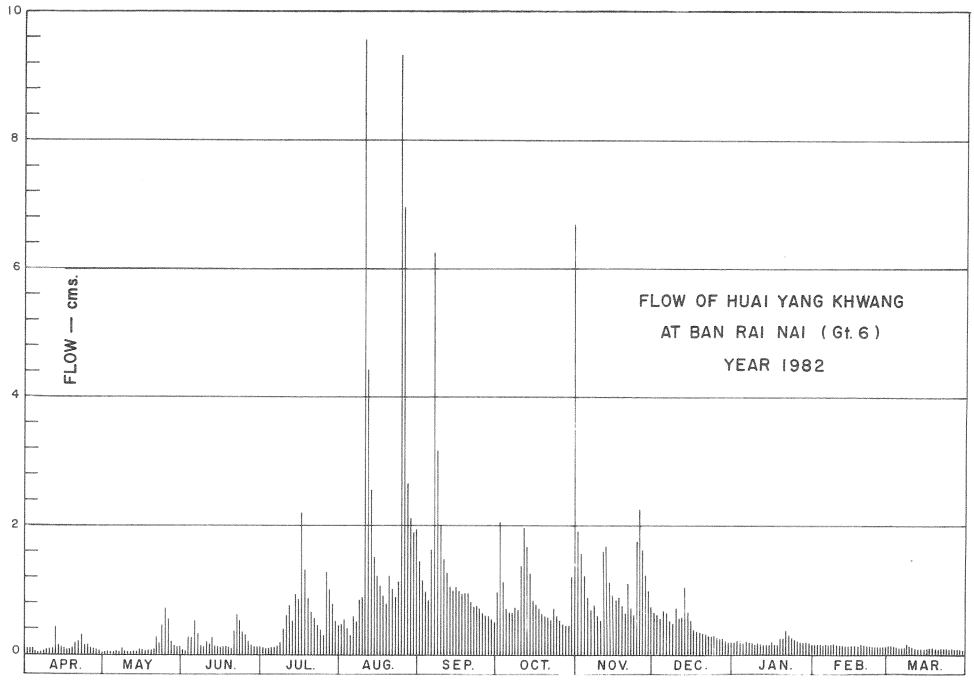
HUAI YANG KHWANG AT BAN RAI NAI, PRACHUAP KHIRI KHAN (GT.6)

LOCATION	LAT. 11°-10'-31" N., LONG. 99°-21'-27" E., ON LEFT BANK AT BAN RAI NAI, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	37 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE METEOROLOGICAL STATION.
ELEVATION	+15.345 M.(A.D.)
GAGE READING FREQUENCY	15-TIME DAILY READINGS AT 06.00 - 18.00, 21.00 AND 24.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 15 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 59 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.48	0.54	0.57	0.70	0.91	0.90	1.01	0.76	0.62	0.59	0.56	
2	0.55	0.47	0.51	0.55	0.72	0.86	1.02	0.98	0.74	0.62	0.59	0.56	
3	0.55	0.46	0.64	0.56	0.69	0.83	0.86	0.91	0.73	0.62	0.59	0.56	
4	0.48	0.46	0.64	0.57	0.68	0.80	0.79	0.86	0.74	0.62	0.59	0.56	
5	0.48	0.47	0.62	0.56	0.64	0.92	0.76	0.81	0.77	0.62	0.59	0.55	
6	0.47	0.48	0.72	0.56	0.74	1.42	0.75	0.78	0.73	0.61	0.59	0.55	
7	0.47	0.48	0.62	0.57	0.72	1.23	0.77	0.75	0.72	0.61	0.59	0.55	
8	0.50	0.54	0.59	0.59	0.80	1.10	0.77	0.77	0.71	0.61	0.59	0.60	
9	0.55	0.50	0.58	0.64	0.81	1.00	0.76	0.74	0.77	0.60	0.59	0.56	
10	0.54	0.50	0.62	0.72	1.62	0.94	0.86	0.72	0.72	0.61	0.59	0.56	
11	0.57	0.50	0.60	0.75	1.49	0.90	1.01	0.94	0.73	0.60	0.59	0.56	
12	0.69	0.50	0.64	0.78	1.19	0.86	0.99	0.96	0.84	0.59	0.58	0.55	
13	0.59	0.49	0.60	0.72	1.02	0.83	0.92	0.87	0.75	0.59	0.58	0.55	
14	0.59	0.51	0.58	0.82	0.94	0.84	0.84	0.84	0.75	0.59	0.58	0.55	
15	0.56	0.55	0.56	0.81	0.88	0.84	0.80	0.81	0.71	0.61	0.58	0.55	
16	0.55	0.52	0.57	1.04	0.85	0.83	0.79	0.80	0.67	0.60	0.58	0.55	
17	0.54	0.51	0.57	0.96	0.83	0.82	0.77	0.81	0.67	0.60	0.57	0.55	
18	0.54	0.50	0.56	0.90	0.79	0.82	0.75	0.79	0.66	0.59	0.57	0.54	
19	0.58	0.50	0.56	0.83	0.85	0.82	0.75	0.75	0.66	0.63	0.60	0.54	
20	0.62	0.55	0.54	0.77	0.88	0.82	0.74	0.85	0.65	0.63	0.60	0.54	
21	0.61	0.64	0.70	0.72	0.85	0.79	0.73	0.79	0.65	0.67	0.57	0.54	
22	0.66	0.61	0.74	0.73	0.81	0.77	0.72	0.76	0.64	0.65	0.57	0.54	
23	0.59	0.71	0.73	0.70	0.85	0.78	0.77	0.74	0.64	0.63	0.56	0.54	
24	0.59	0.69	0.67	0.68	1.22	0.77	0.74	0.92	0.64	0.62	0.56	0.54	
25	0.56	0.77	0.66	0.65	1.61	0.75	0.72	1.05	0.64	0.61	0.56	0.53	
26	0.56	0.76	0.63	0.66	1.30	0.74	0.71	0.98	0.63	0.61	0.56	0.53	
27	0.54	0.63	0.60	0.89	1.10	0.74	0.70	0.89	0.63	0.61	0.56	0.53	
28	0.53	0.60	0.59	0.81	1.04	0.73	0.70	0.86	0.62	0.61	0.56	0.53	
29	0.50	0.57	0.59	0.77	1.00	0.72	0.73	0.81	0.61	0.61		0.52	
30	0.49	0.57	0.57	0.72	1.00	0.71	0.82	0.77	0.61	0.60		0.51	
31		0.56		0.70	0.96		1.45		0.61	0.60		0.51	
MEAN	0.55	0.55	0.61	0.72	0.95	0.86	0.82	0.84	0.69	0.61	0.58	0.55	
MAX	0.69	0.77	0.74	1.04	1.62	1.42	1.45	1.05	0.84	0.67	0.60	0.60	1.62
MIN	0.47	0.46	0.51	0.55	0.64	0.71	0.70	0.72	0.61	0.59	0.56	0.51	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.65 M (A.D), AT 3.00 HOURS, ON OCT 31, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.33 M (A.D)
LEFT BANK ELEVATION 15.35 M (A.D)
RIGHT BANK ELEVATION 5.98 M (A.D), DRAINAGE AREA 37 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.02	0.08	0.12	0.45	1.39	1.33	1.97	0.68	0.21	0.14	0.11	
2	0.10	0.02	0.05	0.10	0.53	1.13	2.04	1.79	0.60	0.21	0.14	0.11	
3	0.10	0.01	0.27	0.11	0.42	0.98	1.13	1.39	0.56	0.21	0.14	0.11	
4	0.02	0.01	0.27	0.12	0.39	0.83	0.79	1.13	0.60	0.21	0.14	0.11	
5	0.02	0.02	0.21	0.11	0.27	1.44	0.68	0.88	0.72	0.21	0.14	0.10	
6	0.02	0.02	0.53	0.11	0.60	6.25	0.64	0.75	0.56	0.18	0.14	0.10	
7	0.02	0.02	0.21	0.12	0.53	3.88	0.72	0.64	0.53	0.18	0.14	0.10	
8	0.04	0.08	0.14	0.14	0.83	2.60	0.72	0.72	0.49	0.18	0.14	0.15	
9	0.10	0.04	0.13	0.27	0.88	1.90	0.68	0.60	0.72	0.15	0.14	0.11	
10	0.08	0.04	0.21	0.53	9.54	1.56	1.13	0.53	0.53	0.18	0.14	0.11	
11	0.12	0.04	0.15	0.64	7.30	1.33	1.97	1.56	0.56	0.15	0.14	0.11	
12	0.42	0.04	0.27	0.75	3.46	1.13	1.84	1.67	1.03	0.14	0.13	0.10	
13	0.14	0.03	0.15	0.53	2.04	0.98	1.44	1.18	0.64	0.14	0.13	0.10	
14	0.14	0.05	0.13	0.93	1.56	1.03	1.03	1.03	0.64	0.14	0.13	0.10	
15	0.11	0.10	0.11	0.88	1.23	1.03	0.83	0.88	0.49	0.18	0.13	0.10	
16	0.10	0.06	0.12	2.18	1.08	0.98	0.79	0.83	0.36	0.15	0.13	0.10	
17	0.08	0.05	0.12	1.67	0.98	0.93	0.72	0.88	0.36	0.15	0.12	0.10	
18	0.08	0.04	0.11	1.33	0.79	0.93	0.64	0.79	0.33	0.14	0.12	0.08	
19	0.13	0.04	0.11	0.98	1.08	0.93	0.64	0.64	0.33	0.24	0.15	0.08	
20	0.21	0.10	0.08	0.72	1.23	0.93	0.60	1.08	0.30	0.24	0.15	0.08	
21	0.18	0.27	0.45	0.53	1.08	0.79	0.56	0.79	0.30	0.36	0.12	0.08	
22	0.33	0.18	0.60	0.56	0.88	0.72	0.53	0.68	0.27	0.30	0.12	0.08	
23	0.14	0.49	0.56	0.45	1.08	0.75	0.72	0.60	0.27	0.24	0.11	0.08	
24	0.14	0.42	0.36	0.39	3.77	0.72	0.60	1.44	0.27	0.21	0.11	0.08	
25	0.11	0.72	0.33	0.30	9.34	0.64	0.53	2.25	0.27	0.18	0.11	0.07	
26	0.11	0.68	0.24	0.33	4.65	0.60	0.49	1.79	0.24	0.18	0.11	0.07	
27	0.08	0.24	0.15	1.28	2.60	0.60	0.45	1.28	0.24	0.18	0.11	0.07	
28	0.07	0.15	0.14	0.88	2.18	0.56	0.45	1.13	0.21	0.18	0.11	0.07	
29	0.04	0.12	0.14	0.72	1.90	0.53	0.56	0.88	0.18	0.18		0.06	
30	0.03	0.12	0.12	0.53	1.90	0.49	0.93	0.72	0.18	0.15		0.05	
31		0.11		0.45	1.67		6.70		0.18	0.15		0.05	
TOTAL	3.36	4.33	6.54	18.76	66.24	38.56	32.88	32.50	13.64	5.90	3.63	2.82	229.16 CMSDAY
MEAN	0.11	0.14	0.22	0.61	2.14	1.29	1.06	1.08	0.44	0.19	0.13	0.09	0.63 CMS
MAX	0.42	0.72	0.60	2.18	9.54	6.25	6.70	2.25	1.03	0.36	0.15	0.15	9.54 CMS
MIN	0.02	0.01	0.05	0.10	0.27	0.49	0.45	0.53	0.18	0.14	0.11	0.05	0.01 CMS
RUNOFF	0.290	0.374	0.565	1.621	5.723	3.332	2.841	2.808	1.178	0.510	0.314	0.244	19.799 MCM

MOMENTARY PEAK 37.97 CMS, AT 2.65 M (A.D), AT 3.00 HOURS, ON OCT 31, 1982
RUNOFF YIELD 16.97 LITERS/SECOND/SQUARE KM. MOMENTARY PEAK YIELD 1026.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

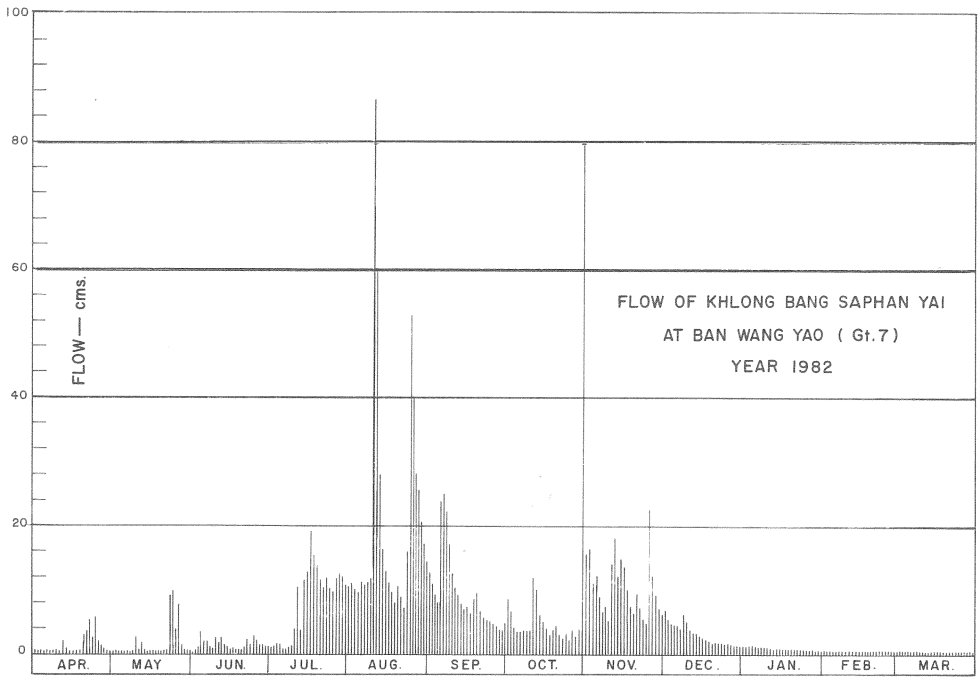
KHLONG BANG SAPHAN YAI AT BAN WANG YAO, PRACHUAP KHIRI KHAN (GT.7)

LOCATION	LAT. 11°-14'-02" N., LONG. 99°-26'-35" E., ON LEFT BANK NEAR THE BRIDGE OF PHET KASEM HIGHWAY AT BAN WANG YAO, TAMBON RON THONG, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	346 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+8.084 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.40	0.50	0.61	1.55	1.72	1.16	1.89	1.24	0.60	0.48	0.41	
2	0.49	0.39	0.47	0.58	1.57	1.58	1.40	1.91	1.16	0.60	0.48	0.41	
3	0.41	0.38	0.61	0.68	1.50	1.45	1.12	1.94	1.10	0.61	0.47	0.40	
4	0.37	0.36	0.90	0.71	1.49	1.35	0.98	1.58	1.04	0.64	0.47	0.40	
5	0.35	0.35	0.70	0.62	1.44	1.34	0.92	1.67	1.02	0.62	0.46	0.40	
6	0.34	0.38	0.78	0.59	1.61	2.36	0.91	1.38	1.01	0.61	0.46	0.40	
7	0.33	0.35	0.72	0.55	1.56	2.42	0.93	1.22	0.97	0.60	0.46	0.40	
8	0.43	0.43	0.61	0.57	1.59	2.25	0.94	1.26	0.94	0.60	0.46	0.41	
9	0.42	0.36	0.58	0.60	1.65	1.92	1.03	1.24	1.20	0.59	0.46	0.44	
10	0.40	0.82	0.80	0.67	3.00	1.69	1.03	1.05	1.04	0.57	0.45	0.42	
11	0.43	0.52	0.72	1.11	4.53	1.55	1.65	1.73	0.94	0.56	0.45	0.41	
12	0.74	0.73	0.79	1.54	3.20	1.45	1.56	2.03	0.89	0.56	0.45	0.41	
13	0.62	0.54	0.69	0.92	2.38	1.35	1.41	1.67	0.88	0.56	0.45	0.40	
14	0.47	0.44	0.66	1.38	1.97	1.28	1.16	1.84	0.86	0.55	0.45	0.40	
15	0.43	0.51	0.59	1.64	1.73	1.29	1.04	1.77	0.82	0.54	0.44	0.39	
16	0.44	0.46	0.56	1.74	1.72	1.30	0.97	1.75	0.80	0.54	0.44	0.39	
17	0.38	0.42	0.56	2.10	1.54	1.20	0.89	1.44	0.77	0.54	0.44	0.39	
18	0.43	0.40	0.52	1.88	1.41	1.33	0.85	1.31	0.75	0.53	0.43	0.38	
19	0.52	0.38	0.51	1.82	1.34	1.49	0.93	1.21	0.73	0.53	0.43	0.38	
20	0.82	0.44	0.53	1.70	1.52	1.31	0.98	1.37	0.72	0.53	0.43	0.37	
21	0.89	0.41	0.58	1.61	1.42	1.20	0.88	1.46	0.71	0.56	0.45	0.37	
22	1.08	0.46	0.77	1.54	1.35	1.13	0.82	1.21	0.70	0.54	0.43	0.41	
23	0.82	1.43	0.77	1.66	1.23	1.11	0.76	1.11	0.69	0.53	0.43	0.37	
24	1.14	1.48	0.65	1.54	2.07	1.09	0.85	1.06	0.68	0.52	0.43	0.38	
25	0.88	0.94	0.85	1.50	3.47	1.09	0.78	2.28	0.67	0.51	0.42	0.37	
26	0.65	1.31	0.75	1.47	3.29	1.03	0.87	1.86	0.66	0.50	0.42	0.36	
27	0.56	0.73	0.64	1.65	2.52	0.99	0.95	1.52	0.65	0.50	0.42	0.36	
28	0.52	0.62	0.68	1.68	2.44	0.96	0.81	1.40	0.64	0.49	0.41	0.34	
29	0.45	0.54	0.62	1.67	2.16	0.91	0.95	1.31	0.63	0.49		0.33	
30	0.42	0.52	0.62	1.57	2.07	0.93	0.92	1.20	0.62	0.48		0.33	
31		0.50		1.53	1.90		4.32		0.61	0.48		0.33	
MEAN	0.56	0.58	0.66	1.27	2.01	1.40	1.12	1.52	0.84	0.55	0.45	0.39	
MAX	1.14	1.48	0.90	2.10	4.53	2.42	4.32	2.28	1.24	0.64	0.48	0.44	4.53
MIN	0.33	0.35	0.47	0.55	1.23	0.91	0.76	1.05	0.61	0.48	0.41	0.33	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.92 M (A.D), AT 18.00 HOURS, ON AUG 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)
LEFT BANK ELEVATION 8.08 M (A.D)
RIGHT BANK ELEVATION 8.52 M (A.D), DRAINAGE AREA 346 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.25	0.50	1.16	10.65	13.00	6.00	15.64	6.84	1.10	0.45	0.27	
2	0.48	0.24	0.43	0.98	10.91	11.04	8.70	15.96	6.00	1.10	0.45	0.27	
3	0.27	0.22	1.16	1.58	10.00	9.35	5.60	16.44	5.40	1.16	0.43	0.25	
4	0.21	0.20	3.40	1.78	9.87	8.10	4.20	11.04	4.80	1.34	0.43	0.25	
5	0.18	0.18	1.70	1.22	9.22	7.98	3.60	12.28	4.60	1.22	0.40	0.25	
6	0.17	0.22	2.34	1.04	11.44	24.10	3.50	8.46	4.50	1.16	0.40	0.25	
7	0.16	0.18	1.86	0.80	10.78	25.32	3.70	6.62	4.10	1.10	0.40	0.25	
8	0.33	0.33	1.16	0.92	11.17	21.95	3.80	7.06	3.80	1.10	0.40	0.27	
9	0.30	0.20	0.98	1.10	12.00	16.12	4.70	6.84	6.40	1.04	0.40	0.35	
10	0.25	2.68	2.50	1.52	38.80	12.56	4.70	4.90	4.80	0.92	0.37	0.30	
11	0.33	0.62	1.86	5.50	86.98	10.65	12.00	13.15	3.80	0.86	0.37	0.27	
12	2.02	1.94	2.42	10.52	44.44	9.35	10.78	17.91	3.31	0.86	0.37	0.27	
13	1.22	0.74	1.64	3.60	24.50	8.10	8.83	12.28	3.22	0.86	0.37	0.25	
14	0.43	0.35	1.46	8.46	16.92	7.28	6.00	14.84	3.04	0.80	0.37	0.25	
15	0.33	0.56	1.04	11.86	13.15	7.39	4.80	13.75	2.68	0.74	0.35	0.24	
16	0.35	0.40	0.86	13.30	13.00	7.50	4.10	13.45	2.50	0.74	0.35	0.24	
17	0.22	0.30	0.86	19.10	10.52	6.40	3.31	9.22	2.26	0.74	0.35	0.24	
18	0.33	0.25	0.62	15.48	8.83	7.86	2.95	7.62	2.10	0.68	0.33	0.22	
19	0.62	0.22	0.56	14.52	7.98	9.87	3.70	6.51	1.94	0.68	0.33	0.22	
20	2.68	0.35	0.68	12.70	10.26	7.62	4.20	8.34	1.86	0.68	0.33	0.21	
21	3.31	0.27	0.98	11.44	8.96	6.40	3.22	9.48	1.78	0.86	0.37	0.21	
22	5.20	0.40	2.26	10.52	8.10	5.70	2.68	6.51	1.70	0.74	0.33	0.27	
23	2.68	9.09	2.26	12.14	6.73	5.50	2.18	5.50	1.64	0.68	0.33	0.21	
24	5.80	9.74	1.40	10.52	18.59	5.30	2.95	5.00	1.58	0.62	0.33	0.22	
25	3.22	3.80	2.95	10.00	52.38	5.30	2.34	22.52	1.52	0.56	0.30	0.21	
26	1.40	7.62	2.10	9.61	47.09	4.70	3.13	15.16	1.46	0.50	0.30	0.20	
27	0.86	1.94	1.34	12.00	27.42	4.30	3.90	10.26	1.40	0.50	0.30	0.20	
28	0.62	1.22	1.58	12.42	25.74	4.00	2.59	8.70	1.34	0.48	0.27	0.17	
29	0.37	0.74	1.22	12.28	20.24	3.50	3.90	7.62	1.28	0.48		0.16	
30	0.30	0.62	1.22	10.91	18.59	3.70	3.60	6.40	1.22	0.45		0.16	
31		0.50		10.39	15.80		79.68		1.16	0.45		0.16	
TOTAL	34.97	46.37	45.34	249.37	621.06	279.94	219.34	319.46	94.03	25.20	10.18	7.29	1952.55 CMSDAY
MEAN	1.17	1.50	1.51	8.04	20.03	9.33	7.08	10.65	3.03	0.81	0.36	0.24	5.35 CMS
MAX	5.80	9.74	3.40	19.10	86.98	25.32	79.68	22.52	6.84	1.34	0.45	0.35	86.98 CMS
MIN	0.16	0.18	0.43	0.80	6.73	3.50	2.18	4.90	1.16	0.45	0.27	0.16	0.16 CMS
RUNOFF	3.021	4.006	3.917	21.546	53.660	24.187	18.951	27.601	8.124	2.177	0.880	0.630	168.700 MCM

MOMENTARY PEAK 139.72 CMS, AT 5.92 M (A.D), AT 18.00 HOURS, ON AUG 10, 1982

RUNOFF YIELD 15.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 403.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

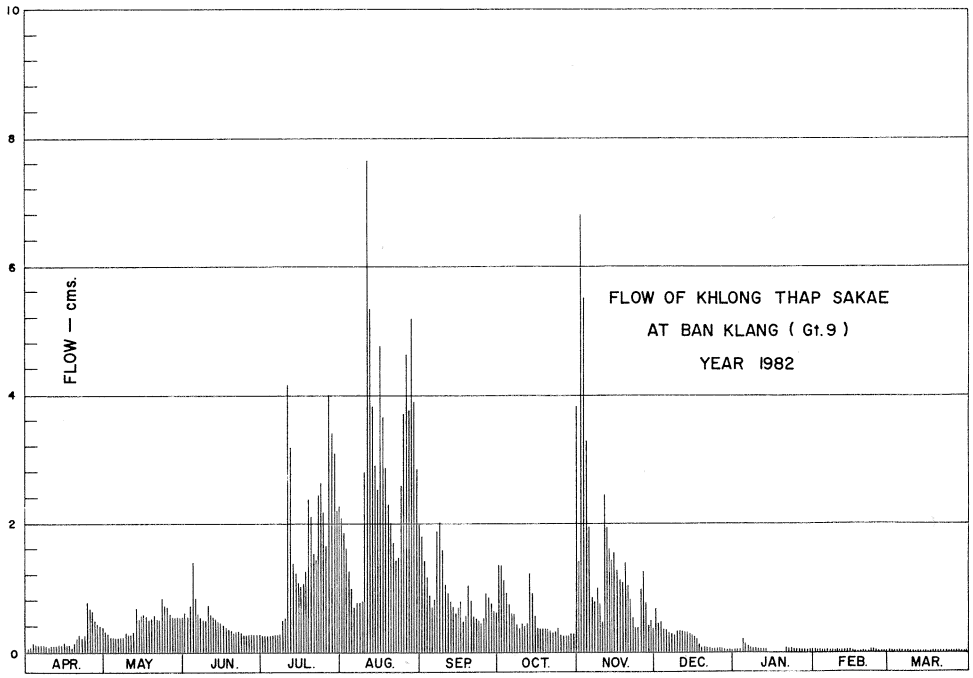
KHLONG THAP SAKAE AT BAN KLANG, PRACHUAP KHIRI KHAN (GT.9)

LOCATION	LAT. 11°-29'-39" N., LONG. 99°-36'-21" E., ON RIGHT BANK AT BAN KLANG, TAMBON THAP SAKAE, AMPHOE THAP SAKAE, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	120 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+5.374 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.23	0.33	0.22	0.65	0.60	0.51	0.52	0.34	0.04	0.06	0.01	
2	0.07	0.23	0.31	0.22	0.61	0.52	0.51	1.30	0.28	0.04	0.06	0.01	
3	0.15	0.20	0.38	0.22	0.55	0.45	0.45	1.11	0.29	0.06	0.05	0.01	
4	0.13	0.20	0.52	0.22	0.46	0.40	0.41	0.78	0.25	0.19	0.05	0.01	
5	0.12	0.20	0.40	0.22	0.40	0.35	0.37	0.55	0.25	0.13	0.05	0.01	
6	0.12	0.20	0.33	0.22	0.35	0.41	0.32	0.40	0.23	0.12	0.05	0.01	
7	0.12	0.20	0.31	0.22	0.37	0.60	0.33	0.38	0.22	0.10	0.05	0.03	
8	0.11	0.20	0.30	0.23	0.37	0.64	0.29	0.43	0.22	0.09	0.05	0.04	
9	0.11	0.23	0.30	0.30	0.38	0.56	0.26	0.35	0.24	0.08	0.05	0.04	
10	0.11	0.22	0.36	0.31	0.74	0.45	0.27	0.31	0.24	0.08	0.05	0.04	
11	0.12	0.22	0.32	0.98	1.39	0.42	0.27	0.72	0.24	0.07	0.05	0.02	
12	0.12	0.24	0.31	0.83	1.12	0.39	0.53	0.61	0.24	0.07	0.05	0.03	
13	0.12	0.35	0.30	0.52	0.90	0.36	0.48	0.57	0.24	0.07	0.05	0.02	
14	0.13	0.30	0.30	0.49	0.77	0.32	0.42	0.53	0.23	0.00	0.05	0.02	
15	0.14	0.32	0.28	0.45	0.73	0.34	0.33	0.55	0.22	0.00	0.05	0.01	
16	0.12	0.32	0.28	0.43	1.06	0.35	0.26	0.48	0.21	0.00	0.03	0.01	
17	0.12	0.31	0.26	0.44	0.85	0.30	0.26	0.41	0.19	0.00	0.01	0.01	
18	0.11	0.30	0.25	0.50	0.74	0.33	0.25	0.40	0.10	0.00	0.01	0.01	
19	0.16	0.30	0.25	0.71	0.69	0.52	0.25	0.47	0.10	0.00	0.03	0.01	
20	0.21	0.32	0.23	0.67	0.64	0.39	0.24	0.44	0.10	0.00	0.03	0.01	
21	0.21	0.31	0.24	0.55	0.57	0.31	0.24	0.40	0.10	0.10	0.03	0.01	
22	0.20	0.30	0.24	0.48	0.53	0.31	0.23	0.31	0.10	0.09	0.03	0.01	
23	0.21	0.39	0.23	0.72	0.54	0.30	0.23	0.26	0.09	0.08	0.06	0.01	
24	0.37	0.36	0.22	0.75	0.74	0.28	0.26	0.26	0.07	0.08	0.06	0.01	
25	0.48	0.36	0.22	0.61	0.98	0.31	0.22	0.41	0.08	0.08	0.05	0.01	
26	0.34	0.33	0.22	0.57	1.04	0.41	0.22	0.49	0.07	0.07	0.02	0.01	
27	0.30	0.31	0.22	0.96	0.93	0.39	0.22	0.34	0.05	0.06	0.01	0.01	
28	0.28	0.31	0.22	0.89	1.11	0.39	0.22	0.28	0.05	0.06	0.01	0.01	
29	0.26	0.31	0.22	0.84	0.91	0.34	0.23	0.29	0.05	0.07		0.01	
30	0.26	0.31	0.22	0.67	0.80	0.33	0.23	0.24	0.05	0.07		0.01	
31		0.31		0.69	0.62		0.93		0.05	0.06		0.01	
MEAN	0.18	0.28	0.29	0.52	0.73	0.40	0.33	0.49	0.17	0.06	0.04	0.02	
MAX	0.48	0.39	0.52	0.98	1.39	0.64	0.93	1.30	0.34	0.19	0.06	0.04	1.39
MIN	0.05	0.20	0.22	0.22	0.35	0.28	0.22	0.24	0.05	0.00	0.01	0.01	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.85 M (A.D), AT 18.00 HOURS, ON AUG 11, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 5.23 M (A.D)
RIGHT BANK ELEVATION 5.10 M (A.D), DRAINAGE AREA 120 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.31	0.61	0.28	2.07	1.80	1.35	1.40	0.65	0.03	0.05	0.01	
2	0.06	0.31	0.54	0.28	1.85	1.40	1.35	6.80	0.45	0.03	0.05	0.01	
3	0.16	0.23	0.80	0.28	1.55	1.09	1.09	5.18	0.47	0.05	0.04	0.01	
4	0.13	0.23	1.40	0.28	1.13	0.88	0.92	2.83	0.36	0.21	0.04	0.01	
5	0.11	0.23	0.88	0.28	0.88	0.69	0.77	1.55	0.36	0.13	0.04	0.01	
6	0.11	0.23	0.61	0.28	0.69	0.92	0.58	0.88	0.31	0.11	0.04	0.01	
7	0.11	0.23	0.54	0.28	0.77	1.80	0.61	0.80	0.28	0.08	0.04	0.02	
8	0.10	0.23	0.50	0.31	0.77	2.02	0.47	1.01	0.28	0.07	0.04	0.03	
9	0.10	0.31	0.50	0.50	0.80	1.60	0.39	0.69	0.34	0.06	0.04	0.03	
10	0.10	0.28	0.73	0.54	2.58	1.09	0.42	0.54	0.34	0.06	0.04	0.03	
11	0.11	0.28	0.58	4.17	7.66	0.96	0.42	2.46	0.34	0.06	0.04	0.02	
12	0.11	0.34	0.54	3.15	5.27	0.84	1.45	1.85	0.34	0.06	0.04	0.02	
13	0.11	0.69	0.50	1.40	3.60	0.73	1.22	1.65	0.34	0.06	0.04	0.02	
14	0.13	0.50	0.50	1.26	2.77	0.58	0.96	1.45	0.31	0.00	0.04	0.02	
15	0.14	0.58	0.45	1.09	2.52	0.65	0.61	1.55	0.28	0.00	0.04	0.01	
16	0.11	0.58	0.45	1.01	4.78	0.69	0.39	1.22	0.26	0.00	0.02	0.01	
17	0.11	0.54	0.39	1.05	3.28	0.50	0.39	0.92	0.21	0.00	0.01	0.01	
18	0.10	0.50	0.36	1.30	2.58	0.61	0.36	0.88	0.08	0.00	0.01	0.01	
19	0.17	0.50	0.36	2.40	2.29	1.40	0.36	1.17	0.08	0.00	0.02	0.01	
20	0.26	0.58	0.31	2.18	2.02	0.84	0.34	1.05	0.08	0.00	0.02	0.01	
21	0.26	0.54	0.34	1.55	1.65	0.54	0.34	0.88	0.08	0.08	0.02	0.01	
22	0.23	0.50	0.34	1.22	1.45	0.54	0.31	0.54	0.08	0.07	0.02	0.01	
23	0.26	0.84	0.31	2.46	1.50	0.50	0.31	0.39	0.07	0.06	0.05	0.01	
24	0.77	0.73	0.28	2.65	2.58	0.45	0.39	0.39	0.06	0.06	0.05	0.01	
25	1.22	0.73	0.28	1.85	4.17	0.54	0.28	0.92	0.06	0.06	0.04	0.01	
26	0.65	0.61	0.28	1.65	4.63	0.92	0.28	1.26	0.06	0.06	0.02	0.01	
27	0.50	0.54	0.28	4.03	3.81	0.84	0.28	0.65	0.04	0.05	0.01	0.01	
28	0.45	0.54	0.28	3.54	5.18	0.84	0.28	0.45	0.04	0.05	0.01	0.01	
29	0.39	0.54	0.28	3.21	3.67	0.65	0.31	0.47	0.04	0.06		0.01	
30	0.39	0.54	0.28	2.18	2.95	0.61	0.31	0.34	0.04	0.06		0.01	
31		0.54		2.29	1.91		3.81		0.04	0.05		0.01	
TOTAL	7.49	14.33	14.50	48.95	83.36	27.52	21.35	42.17	6.77	1.67	0.92	0.42	269.45 CMSDAY
MEAN	0.25	0.46	0.48	1.58	2.69	0.92	0.69	1.41	0.22	0.05	0.03	0.01	0.74 CMS
MAX	1.22	0.84	1.40	4.17	7.66	2.02	3.81	6.80	0.65	0.21	0.05	0.03	7.66 CMS
MIN	0.04	0.23	0.28	0.28	0.69	0.45	0.28	0.34	0.04	0.00	0.01	0.01	0.00 CMS
RUNOFF	0.647	1.238	1.253	4.229	7.202	2.378	1.845	3.643	0.585	0.144	0.079	0.036	23.280 MCM

MOMENTARY PEAK 12.51 CMS, AT 1.85 M (A.D), AT 18.00 HOURS, ON AUG 11, 1982
RUNOFF YIELD 6.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 104.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

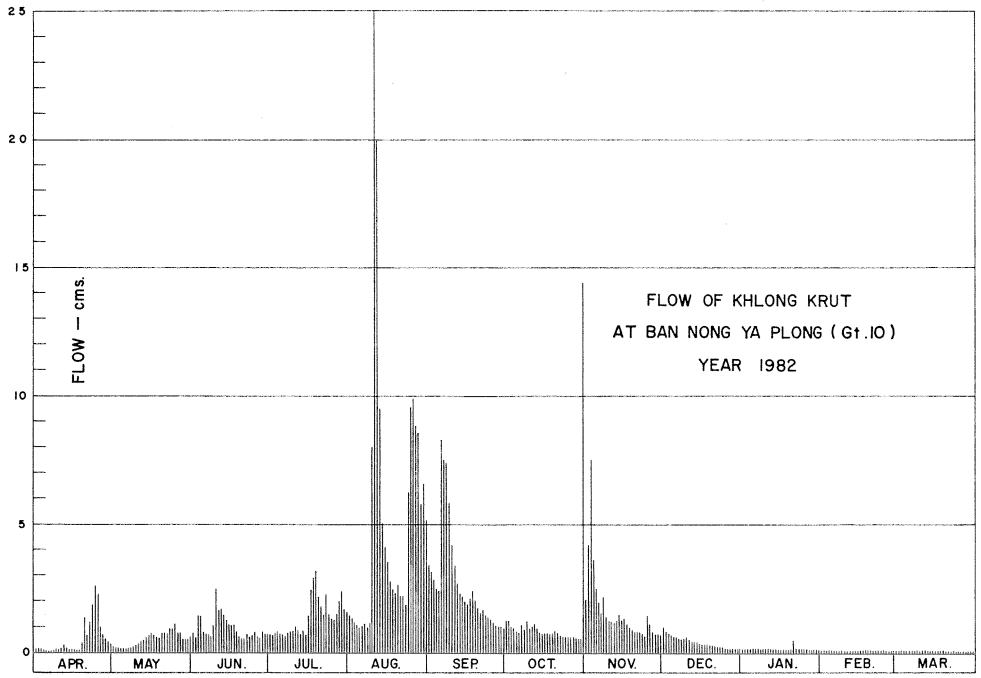
KHLONG KRUT AT BAN NONG YA PLONG, PRACHUAP KHIRI KHAN (GT.10)

LOCATION	LAT. 11°-24′-08″ N., LONG. 99°-31′-20″ E., ON LEFT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 379, BAN NONG YA PLONG, TAMBON CHAI KASEM, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	112 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	5.507 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.43	0.59	0.57	0.79	1.13	0.74	0.88	0.68	0.39	0.32	0.29	
2	0.38	0.40	0.53	0.55	0.77	1.06	0.74	1.22	0.63	0.38	0.32	0.29	
3	0.34	0.40	0.77	0.59	0.74	1.01	0.67	1.47	0.59	0.37	0.32	0.29	
4	0.32	0.38	0.77	0.62	0.70	0.95	0.64	1.12	0.56	0.40	0.31	0.29	
5	0.30	0.37	0.61	0.59	0.66	0.94	0.61	0.97	0.55	0.40	0.31	0.28	
6	0.26	0.37	0.58	0.57	0.68	1.53	0.60	0.87	0.55	0.39	0.31	0.28	
7	0.25	0.37	0.58	0.55	0.70	1.47	0.69	0.78	0.53	0.38	0.31	0.28	
8	0.26	0.39	0.56	0.60	0.66	1.46	0.63	0.90	0.51	0.37	0.31	0.30	
9	0.34	0.41	0.72	0.62	0.72	1.30	0.73	0.77	0.53	0.36	0.31	0.31	
10	0.35	0.44	0.95	0.61	1.43	1.17	0.67	0.73	0.55	0.36	0.30	0.31	
11	0.34	0.46	0.81	0.68	2.55	1.08	0.67	0.73	0.51	0.35	0.30	0.29	
12	0.44	0.48	0.82	0.65	1.89	1.01	0.71	0.72	0.48	0.35	0.30	0.29	
13	0.39	0.51	0.79	0.57	1.49	0.93	0.68	0.73	0.49	0.35	0.30	0.28	
14	0.36	0.54	0.75	0.63	1.26	0.90	0.63	0.78	0.47	0.34	0.30	0.28	
15	0.33	0.57	0.70	0.58	1.15	0.87	0.60	0.74	0.47	0.34	0.30	0.28	
16	0.33	0.60	0.69	0.72	1.11	0.85	0.59	0.75	0.45	0.33	0.30	0.28	
17	0.32	0.56	0.70	0.94	1.00	0.87	0.60	0.70	0.44	0.32	0.31	0.28	
18	0.31	0.54	0.65	1.01	0.95	0.94	0.58	0.67	0.44	0.32	0.31	0.28	
19	0.47	0.52	0.55	1.05	0.93	0.87	0.59	0.63	0.44	0.32	0.31	0.28	
20	0.76	0.60	0.53	0.90	0.97	0.83	0.62	0.61	0.43	0.32	0.31	0.27	
21	0.55	0.60	0.52	0.84	0.91	0.79	0.59	0.61	0.43	0.50	0.31	0.27	
22	1.33	0.59	0.58	0.78	0.90	0.81	0.56	0.60	0.42	0.39	0.31	0.27	
23	0.86	0.65	0.54	0.91	0.85	0.78	0.56	0.58	0.42	0.35	0.31	0.26	
24	0.97	0.66	0.54	0.80	1.21	0.77	0.56	0.56	0.41	0.34	0.30	0.26	
25	0.91	0.72	0.61	0.75	1.61	0.76	0.54	0.77	0.40	0.33	0.29	0.26	
26	0.67	0.60	0.56	0.73	1.64	0.72	0.55	0.69	0.40	0.33	0.29	0.25	
27	0.58	0.59	0.53	0.91	1.49	0.70	0.55	0.61	0.40	0.33	0.29	0.25	
28	0.51	0.52	0.60	0.86	1.47	0.69	0.54	0.58	0.39	0.33	0.29	0.24	
29	0.48	0.52	0.59	0.93	1.33	0.68	0.54	0.58	0.39	0.33		0.24	
30	0.46	0.52	0.59	0.82	1.40	0.66	0.52	0.56	0.39	0.33		0.24	
31		0.56		0.80	1.25		1.91		0.39	0.33		0.23	
MEAN	0.48	0.51	0.64	0.73	1.14	0.95	0.66	0.76	0.48	0.36	0.31	0.27	
MAX	1.33	0.72	0.95	1.05	2.55	1.53	1.91	1.47	0.68	0.50	0.32	0.31	2.55
MIN	0.25	0.37	0.52	0.55	0.66	0.66	0.52	0.56	0.39	0.32	0.29	0.23	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.05 M (A.D), AT 18.00 HOURS, ON NOV 2, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 5.24 M (A.D)
RIGHT BANK ELEVATION 5.25 M (A.D), DRAINAGE AREA 112 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.29	0.77	0.71	1.55	3.87	1.30	2.08	1.04	0.19	0.12	0.09	
2	0.18	0.20	0.59	0.65	1.45	3.28	1.30	4.70	0.89	0.18	0.12	0.09	
3	0.14	0.20	1.45	0.77	1.30	2.88	1.01	7.51	0.77	0.17	0.12	0.09	
4	0.12	0.18	1.45	0.86	1.10	2.50	0.92	3.78	0.68	0.20	0.11	0.09	
5	0.10	0.17	0.83	0.77	0.98	2.44	0.83	2.62	0.65	0.20	0.11	0.08	
6	0.06	0.17	0.74	0.71	1.04	8.32	0.80	2.02	0.65	0.19	0.11	0.08	
7	0.05	0.17	0.74	0.65	1.10	7.51	1.07	1.50	0.59	0.18	0.11	0.08	
8	0.06	0.19	0.68	0.80	0.98	7.38	0.89	2.20	0.53	0.17	0.11	0.10	
9	0.14	0.23	1.20	0.86	1.20	5.50	1.25	1.45	0.59	0.16	0.11	0.11	
10	0.15	0.32	2.50	0.83	6.99	4.23	1.01	1.25	0.65	0.16	0.10	0.11	
11	0.14	0.38	1.66	1.04	28.90	3.44	1.01	1.25	0.53	0.15	0.10	0.09	
12	0.32	0.44	1.72	0.95	14.03	2.88	1.15	1.20	0.44	0.15	0.10	0.09	
13	0.19	0.53	1.55	0.71	7.77	2.38	1.04	1.25	0.47	0.15	0.10	0.08	
14	0.16	0.62	1.35	0.89	5.10	2.20	0.89	1.50	0.41	0.14	0.10	0.08	
15	0.13	0.71	1.10	0.74	4.05	2.02	0.80	1.30	0.41	0.14	0.10	0.08	
16	0.13	0.80	1.07	1.20	3.69	1.90	0.77	1.35	0.35	0.13	0.10	0.08	
17	0.12	0.68	1.10	2.44	2.80	2.02	0.80	1.10	0.32	0.12	0.11	0.08	
18	0.11	0.62	0.95	2.88	2.50	2.44	0.74	1.01	0.32	0.12	0.11	0.08	
19	0.41	0.56	0.65	3.20	2.38	2.02	0.77	0.89	0.32	0.12	0.11	0.08	
20	1.40	0.80	0.59	2.20	2.62	1.78	0.86	0.83	0.29	0.12	0.11	0.07	
21	0.65	0.80	0.56	1.84	2.26	1.55	0.77	0.83	0.29	0.50	0.11	0.07	
22	5.83	0.77	0.74	1.50	2.20	1.66	0.68	0.80	0.26	0.19	0.11	0.07	
23	1.96	0.95	0.62	2.26	1.90	1.50	0.68	0.74	0.26	0.15	0.11	0.06	
24	2.62	0.98	0.62	1.60	4.60	1.45	0.68	0.68	0.23	0.14	0.10	0.06	
25	2.26	1.20	0.83	1.35	9.46	1.40	0.62	1.45	0.20	0.13	0.09	0.06	
26	1.01	0.80	0.68	1.25	9.94	1.20	0.65	1.07	0.20	0.13	0.09	0.05	
27	0.74	0.77	0.59	2.26	7.77	1.10	0.65	0.83	0.20	0.13	0.09	0.05	
28	0.53	0.56	0.80	1.96	7.51	1.07	0.62	0.74	0.19	0.13	0.09	0.04	
29	0.44	0.56	0.77	2.38	5.83	1.04	0.62	0.74	0.19	0.13		0.04	
30	0.38	0.56	0.77	1.72	6.60	0.98	0.56	0.68	0.19	0.13		0.04	
31		0.68		1.60	5.00		14.39		0.19	0.13		0.03	
TOTAL	20.67	16.89	29.67	43.58	154.60	83.94	40.13	49.35	13.30	5.03	2.95	2.30	462.41 CMSDAY
MEAN	0.69	0.54	0.99	1.41	4.99	2.80	1.29	1.65	0.43	0.16	0.11	0.07	1.27 CMS
MAX	5.83	1.20	2.50	3.20	28.90	8.32	14.39	7.51	1.04	0.50	0.12	0.11	28.90 CMS
MIN	0.05	0.17	0.56	0.65	0.98	0.98	0.56	0.68	0.19	0.12	0.09	0.03	0.03 CMS
RUNOFF	1.786	1.459	2.563	3.765	13.357	7.252	3.467	4.264	1.149	0.435	0.255	0.199	39.952 MCM

MOMENTARY PEAK 45.25 CMS, AT 3.05 M (A.D), AT 18.00 HOURS, ON NOV 2, 1982

RUNOFF YIELD 11.31 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 404.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

WEST COAST-GULF BASIN

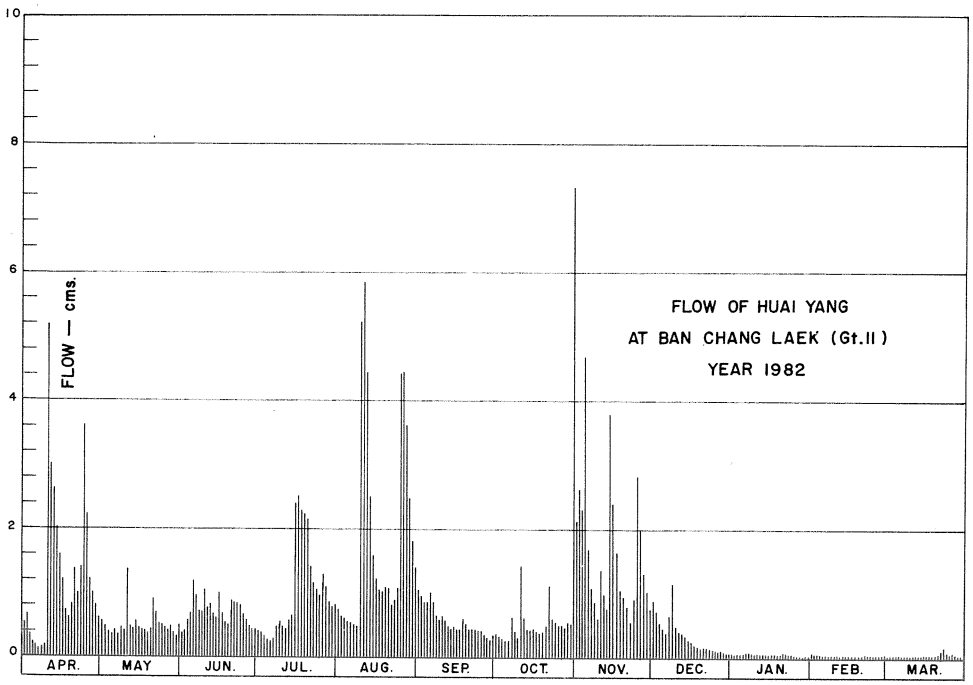
HUAI YANG AT BAN CHANG LAEK, PRACHUAP KHIRI KHAN (GT.11)

LOCATION	LAT. 11°-03'-44" N., LONG. 99°-22'-31" E., ON RIGHT BANK AT THE BRIDGE OF PHET KASEM HIGHWAY NEAR THE GUIDEPOST 423, BAN CHANG LAEK, TAMBON PAK PHAEK, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	58 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-HIGHWAYS DEPT.
LOCATION	ON LEFT BANK AT THE ABUTMENT OF THE BRIDGE.
ELEVATION	+9.576 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1980 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1980 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.58	0.56	0.53	0.64	0.72	0.53	0.86	0.62	0.39	0.37	0.32	
2	0.61	0.57	0.53	0.53	0.61	0.67	0.52	0.93	0.65	0.39	0.36	0.32	
3	0.51	0.54	0.54	0.52	0.60	0.67	0.51	0.89	0.61	0.39	0.35	0.32	
4	0.46	0.53	0.61	0.50	0.59	0.64	0.50	1.17	0.57	0.39	0.35	0.31	
5	0.44	0.52	0.61	0.49	0.58	0.65	0.49	0.97	0.56	0.39	0.35	0.31	
6	0.42	0.53	0.71	0.48	0.58	0.68	0.49	0.79	0.54	0.40	0.35	0.31	
7	0.41	0.52	0.67	0.50	0.57	0.65	0.49	0.71	0.52	0.40	0.34	0.31	
8	0.44	0.52	0.62	0.56	0.57	0.63	0.60	0.68	0.63	0.39	0.34	0.31	
9	0.44	0.56	0.62	0.56	0.56	0.60	0.51	0.65	0.71	0.39	0.34	0.31	
10	1.23	0.54	0.68	0.58	1.23	0.60	0.51	0.60	0.57	0.39	0.34	0.31	
11	0.99	0.74	0.63	0.55	1.30	0.59	0.76	0.74	0.55	0.39	0.34	0.31	
12	0.95	0.57	0.63	0.55	1.17	0.59	0.61	0.69	0.53	0.39	0.35	0.31	
13	0.89	0.54	0.64	0.57	0.96	0.57	0.55	0.63	0.52	0.39	0.34	0.31	
14	0.79	0.57	0.61	0.60	0.84	0.55	0.54	1.07	0.51	0.38	0.33	0.31	
15	0.76	0.58	0.60	0.61	0.75	0.56	0.54	0.95	0.50	0.38	0.33	0.32	
16	0.72	0.54	0.67	0.91	0.72	0.55	0.54	0.88	0.48	0.38	0.33	0.33	
17	0.63	0.54	0.61	0.92	0.69	0.55	0.54	0.77	0.46	0.37	0.32	0.34	
18	0.60	0.53	0.58	0.89	0.68	0.55	0.53	0.70	0.45	0.37	0.32	0.34	
19	0.60	0.52	0.57	0.88	0.69	0.59	0.53	0.68	0.44	0.36	0.32	0.34	
20	0.74	0.54	0.59	0.86	0.68	0.57	0.55	0.66	0.43	0.36	0.32	0.33	
21	0.70	0.66	0.65	0.77	0.69	0.55	0.57	0.64	0.43	0.39	0.32	0.33	
22	0.67	0.64	0.64	0.74	0.64	0.55	0.70	0.60	0.43	0.39	0.32	0.42	
23	0.78	0.59	0.64	0.70	0.64	0.54	0.59	0.58	0.43	0.37	0.32	0.43	
24	1.05	0.55	0.64	0.69	0.69	0.54	0.59	0.67	0.42	0.37	0.32	0.41	
25	0.86	0.57	0.63	0.67	1.14	0.54	0.57	0.96	0.42	0.35	0.32	0.38	
26	0.73	0.55	0.59	0.67	1.14	0.54	0.57	0.88	0.41	0.34	0.32	0.36	
27	0.69	0.54	0.57	0.73	1.07	0.52	0.56	0.74	0.41	0.34	0.32	0.36	
28	0.65	0.56	0.55	0.67	0.97	0.51	0.56	0.72	0.41	0.34	0.32	0.34	
29	0.62	0.53	0.55	0.64	0.88	0.50	0.58	0.68	0.40	0.33		0.32	
30	0.59	0.51	0.55	0.63	0.82	0.51	0.55	0.64	0.40	0.32		0.31	
31		0.56		0.64	0.77		1.43		0.39	0.32		0.30	
MEAN	0.69	0.56	0.61	0.65	0.79	0.58	0.58	0.77	0.50	0.37	0.33	0.33	
MAX	1.23	0.74	0.71	0.92	1.30	0.72	1.43	1.17	0.71	0.40	0.37	0.43	1.43
MIN	0.41	0.51	0.53	0.48	0.56	0.50	0.49	0.58	0.39	0.32	0.32	0.30	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.75 M (A.D), AT 18.00 HOURS, ON APR 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.37 M (A.D)
LEFT BANK ELEVATION 9.28 M (A.D)
RIGHT BANK ELEVATION 9.16 M (A.D), DRAINAGE AREA 58 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.55	0.49	0.39	0.82	1.23	0.39	2.11	0.72	0.09	0.08	0.04	
2	0.67	0.52	0.39	0.39	0.67	0.96	0.36	2.61	0.86	0.09	0.07	0.04	
3	0.32	0.42	0.42	0.36	0.62	0.96	0.32	2.31	0.67	0.09	0.06	0.04	
4	0.21	0.39	0.67	0.29	0.59	0.82	0.29	4.68	0.52	0.09	0.06	0.03	
5	0.18	0.36	0.67	0.27	0.55	0.86	0.27	2.93	0.49	0.09	0.06	0.03	
6	0.14	0.39	1.17	0.25	0.55	1.01	0.27	1.64	0.42	0.10	0.06	0.03	
7	0.12	0.36	0.96	0.29	0.52	0.86	0.27	1.17	0.36	0.10	0.05	0.03	
8	0.18	0.36	0.72	0.49	0.52	0.77	0.62	1.01	0.77	0.09	0.05	0.03	
9	0.18	0.49	0.72	0.49	0.49	0.62	0.32	0.86	1.17	0.09	0.05	0.03	
10	5.21	0.42	1.01	0.55	5.21	0.62	0.32	0.62	0.52	0.09	0.05	0.03	
11	3.08	1.35	0.77	0.46	5.84	0.59	1.46	1.35	0.46	0.09	0.05	0.03	
12	2.77	0.52	0.77	0.46	4.68	0.59	0.67	1.06	0.39	0.09	0.06	0.03	
13	2.31	0.42	0.82	0.52	2.85	0.52	0.46	0.77	0.36	0.09	0.05	0.03	
14	1.64	0.52	0.67	0.62	1.97	0.46	0.42	3.79	0.32	0.08	0.04	0.03	
15	1.46	0.55	0.62	0.67	1.41	0.49	0.42	2.77	0.29	0.08	0.04	0.04	
16	1.23	0.42	0.96	2.46	1.23	0.46	0.42	2.24	0.25	0.08	0.04	0.04	
17	0.77	0.42	0.67	2.54	1.06	0.46	0.42	1.52	0.21	0.08	0.04	0.05	
18	0.62	0.39	0.55	2.31	1.01	0.46	0.39	1.11	0.19	0.08	0.04	0.05	
19	0.62	0.36	0.52	2.24	1.06	0.59	0.39	1.01	0.18	0.07	0.04	0.05	
20	1.35	0.42	0.59	2.11	1.01	0.52	0.46	0.91	0.16	0.07	0.04	0.04	
21	1.11	0.91	0.86	1.52	1.06	0.46	0.52	0.82	0.16	0.09	0.04	0.04	
22	0.96	0.82	0.82	1.35	0.82	0.46	1.11	0.62	0.16	0.09	0.04	0.14	
23	1.58	0.59	0.82	1.11	0.82	0.42	0.59	0.55	0.16	0.08	0.04	0.16	
24	3.61	0.46	0.82	1.06	1.06	0.42	0.59	0.96	0.14	0.08	0.04	0.12	
25	2.11	0.52	0.77	0.96	4.41	0.42	0.52	2.85	0.14	0.06	0.04	0.08	
26	1.29	0.46	0.59	0.96	4.41	0.42	0.52	2.24	0.12	0.05	0.04	0.07	
27	1.06	0.42	0.52	1.29	3.79	0.36	0.49	1.35	0.12	0.05	0.04	0.07	
28	0.86	0.49	0.46	0.96	2.93	0.32	0.49	1.23	0.12	0.05	0.04	0.05	
29	0.72	0.39	0.46	0.82	2.24	0.29	0.55	1.01	0.10	0.04		0.04	
30	0.59	0.32	0.46	0.77	1.84	0.32	0.46	0.82	0.10	0.04		0.03	
31		0.49		0.82	1.52		7.30		0.09	0.04		0.02	
TOTAL	37.50	15.50	20.74	29.78	57.56	17.74	22.08	48.92	10.72	2.40	1.35	1.54	265.83 CMSDAY
MEAN	1.25	0.50	0.69	0.96	1.86	0.59	0.71	1.63	0.35	0.08	0.05	0.05	0.73 CMS
MAX	5.21	1.35	1.17	2.54	5.84	1.23	7.30	4.68	1.17	0.10	0.08	0.16	7.30 CMS
MIN	0.12	0.32	0.39	0.25	0.49	0.29	0.27	0.55	0.09	0.04	0.04	0.02	0.02 CMS
RUNOFF	3.240	1.339	1.792	2.573	4.973	1.533	1.908	4.227	0.926	0.207	0.117	0.133	22.968 MCM

MOMENTARY PEAK 11.12 CMS, AT 1.75 M (A.D), AT 18.00 HOURS, ON APR 10, 1982
RUNOFF YIELD 12.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 191.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

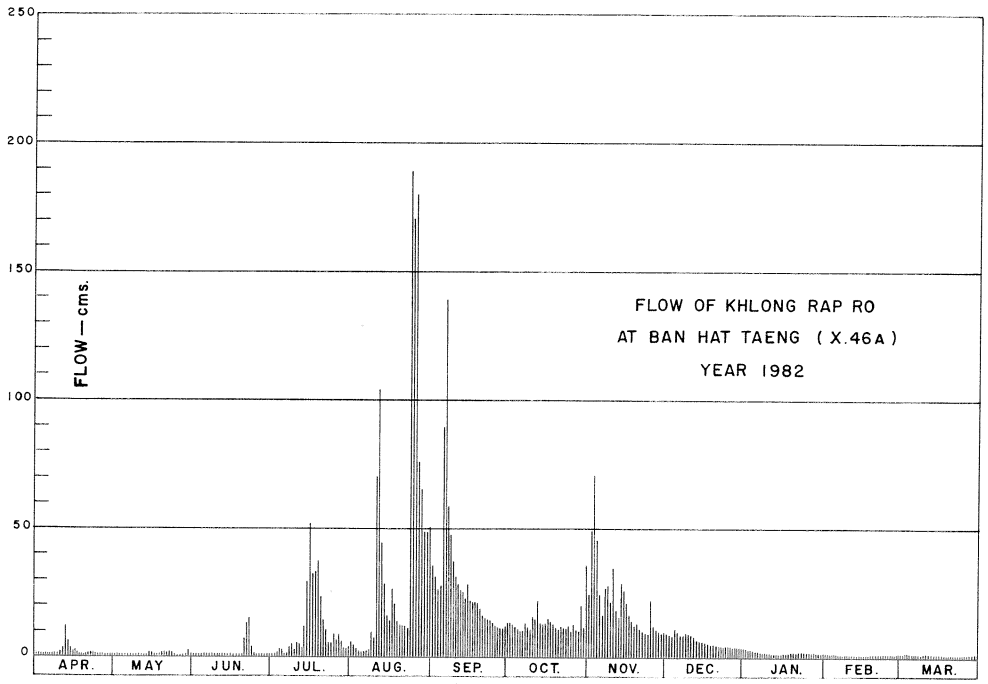
KHLONG RAP RO AT BAN HAT TAENG, CHUMPHON (X.46A)

LOCATION	LAT. 10°-37′-18″ N., LONG. 99°-03′-39″ E., ON LEFT BANK ABOUT 10 KILOMETERS UPSTREAM FROM X.46 STATION AT BAN THA KHAM, AMPHOE THA SAE, CHUMPHON.
DRAINAGE AREA	617 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+11.752 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +5.01 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	0.94	1.02	1.07	1.37	2.20	1.64	1.90	1.51	1.26	1.12	0.96	
2	1.06	0.93	1.02	1.07	1.31	2.09	1.60	2.26	1.48	1.26	1.11	0.96	
3	1.00	0.92	1.03	1.19	1.26	2.02	1.59	2.76	1.46	1.25	1.10	0.95	
4	0.99	0.91	1.02	1.21	1.22	1.92	1.56	2.34	1.46	1.27	1.10	0.95	
5	0.96	0.90	1.04	1.28	1.20	2.02	1.54	1.98	1.57	1.26	1.09	0.95	
6	0.95	0.94	1.00	1.16	1.21	3.61	1.51	1.79	1.44	1.25	1.08	0.94	
7	0.96	0.97	0.99	1.15	1.26	2.77	1.51	1.72	1.41	1.25	1.08	0.94	
8	0.96	0.95	0.96	1.22	1.28	2.50	1.66	1.94	1.43	1.25	1.07	0.94	
9	1.16	0.93	0.95	1.34	1.50	2.26	1.55	1.86	1.51	1.24	1.07	0.94	
10	1.23	0.92	0.96	1.23	1.41	2.11	1.67	2.10	1.46	1.23	1.06	0.93	
11	1.58	0.91	1.09	1.39	3.20	2.01	1.64	1.87	1.42	1.23	1.06	0.93	
12	1.48	0.91	1.03	1.35	2.48	1.94	1.84	1.75	1.40	1.22	1.05	0.93	
13	1.25	0.92	1.00	1.28	2.17	1.95	1.88	1.67	1.39	1.22	1.05	0.92	
14	1.13	0.97	1.03	1.69	1.95	1.88	1.63	2.00	1.39	1.21	1.04	0.91	
15	1.27	1.18	1.04	2.10	1.71	2.00	1.63	1.88	1.38	1.20	1.03	0.91	
16	1.13	1.05	1.00	2.45	1.64	1.91	1.69	1.87	1.37	1.19	1.03	0.91	
17	1.05	0.98	0.99	2.58	1.94	1.86	1.61	1.68	1.36	1.19	1.02	0.91	
18	1.01	0.95	1.00	2.07	1.73	1.83	1.63	1.61	1.35	1.18	1.02	0.91	
19	1.02	0.94	0.97	2.09	1.66	1.85	1.57	1.59	1.34	1.18	1.01	0.90	
20	1.12	0.92	0.96	2.16	1.58	1.78	1.53	1.60	1.33	1.17	1.00	0.89	
21	1.05	1.15	1.61	1.87	1.62	1.72	1.61	1.58	1.33	1.17	1.00	0.89	
22	1.02	1.10	1.68	1.69	1.58	1.69	1.57	1.53	1.32	1.18	1.00	0.92	
23	1.16	1.20	1.39	1.58	1.55	1.68	1.54	1.51	1.32	1.17	0.99	0.99	
24	1.08	1.18	1.21	1.43	4.11	1.65	1.57	1.49	1.31	1.15	0.98	0.93	
25	1.06	1.07	1.13	1.34	3.91	1.62	1.50	1.86	1.31	1.14	0.98	0.90	
26	1.05	1.03	1.11	1.49	4.02	1.59	1.62	1.64	1.30	1.13	0.98	0.89	
27	1.01	1.01	1.07	1.41	2.86	1.58	1.54	1.55	1.30	1.13	0.97	0.88	
28	0.98	1.00	1.04	1.47	2.78	1.57	1.50	1.53	1.29	1.13	0.97	0.87	
29	0.97	1.07	1.06	1.38	2.45	1.55	1.68	1.49	1.28	1.13		0.87	
30	0.95	1.26	1.06	1.29	2.38	1.59	1.55	1.48	1.27	1.13		0.86	
31		1.04		1.32	2.43		2.14		1.27	1.12		0.85	
MEAN	1.09	1.00	1.08	1.53	2.02	1.96	1.62	1.79	1.38	1.20	1.04	0.92	
MAX	1.58	1.26	1.68	2.58	4.11	3.61	2.14	2.76	1.57	1.27	1.12	0.99	4.11
MIN	0.95	0.90	0.95	1.07	1.20	1.55	1.50	1.48	1.27	1.12	0.97	0.85	0.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.58 M (A.D), AT 18.00 HOURS, ON AUG 25, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.09 M (A.D)
LEFT BANK ELEVATION 5.91 M (A.D)
RIGHT BANK ELEVATION 5.00 M (A.D), DRAINAGE AREA 617 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.08	1.54	2.42	2.97	7.50	39.00	14.45	24.00	11.11	5.22	3.54	1.76	
2	2.86	1.43	2.42	2.97	5.96	33.50	13.43	42.00	10.34	5.22	3.42	1.76	
3	2.20	1.32	2.53	4.38	5.22	30.00	13.17	71.20	9.82	5.10	3.30	1.65	
4	2.09	1.21	2.42	4.62	4.74	25.00	12.39	46.00	9.82	5.34	3.30	1.65	
5	1.76	1.10	2.64	5.46	4.50	30.00	11.88	28.00	12.65	5.22	3.19	1.65	
6	1.65	1.54	2.20	4.02	4.62	139.90	11.11	19.60	9.31	5.10	3.08	1.54	
7	1.76	1.87	2.09	3.90	5.22	71.90	11.11	16.80	8.53	5.10	3.08	1.54	
8	1.76	1.65	1.76	4.74	5.46	55.00	14.97	26.00	9.05	5.10	2.97	1.54	
9	4.02	1.43	1.65	6.73	10.85	42.00	12.14	22.40	11.11	4.98	2.97	1.54	
10	4.86	1.32	1.76	4.86	8.53	34.50	15.23	34.00	9.82	4.86	2.86	1.43	
11	12.91	1.21	3.19	8.02	104.50	29.50	14.45	22.80	8.79	4.86	2.86	1.43	
12	10.34	1.21	2.53	6.99	53.80	26.00	21.60	18.00	8.27	4.74	2.75	1.43	
13	5.10	1.32	2.20	5.46	37.50	26.50	23.20	15.23	8.02	4.74	2.75	1.32	
14	3.66	1.87	2.53	15.74	26.50	23.20	14.20	29.00	8.02	4.62	2.64	1.21	
15	5.34	4.26	2.64	34.00	16.40	29.00	14.20	23.20	7.76	4.50	2.53	1.21	
16	3.66	2.75	2.20	52.00	14.45	24.50	15.74	22.80	7.50	4.38	2.53	1.21	
17	2.75	1.98	2.09	59.80	26.00	22.40	13.68	15.48	7.25	4.38	2.42	1.21	
18	2.31	1.65	2.20	32.50	17.20	21.20	14.20	13.68	6.99	4.26	2.42	1.21	
19	2.42	1.54	1.87	33.50	14.97	22.00	12.65	13.17	6.73	4.26	2.31	1.10	
20	3.54	1.32	1.76	37.00	12.91	19.20	11.62	13.43	6.47	4.14	2.20	0.99	
21	2.75	3.90	13.68	22.80	13.94	16.80	13.68	12.91	6.47	4.14	2.20	0.99	
22	2.42	3.30	15.48	15.74	12.91	15.74	12.65	11.62	6.22	4.26	2.20	1.32	
23	4.02	4.50	8.02	12.91	12.14	15.48	11.88	11.11	6.22	4.14	2.09	2.09	
24	3.08	4.26	4.62	9.05	189.10	14.71	12.65	10.59	5.96	3.90	1.98	1.43	
25	2.86	2.97	3.66	6.73	169.00	13.94	10.85	22.40	5.96	3.78	1.98	1.10	
26	2.75	2.53	3.42	10.59	180.00	13.17	13.94	14.45	5.70	3.66	1.98	0.99	
27	2.31	2.31	2.97	8.53	78.20	12.91	11.88	12.14	5.70	3.66	1.87	0.88	
28	1.98	2.20	2.64	10.08	72.60	12.65	10.85	11.62	5.58	3.66	1.87	0.77	
29	1.87	2.97	2.86	7.76	52.00	12.14	15.48	10.59	5.46	3.66		0.77	
30	1.65	5.22	2.86	5.58	48.00	13.17	12.14	10.34	5.34	3.66		0.66	
31		2.64		6.22	50.80		36.00		5.34	3.54		0.55	
TOTAL	103.76	70.32	105.31	445.65	1265.52	885.01	447.42	644.56	241.31	138.18	73.29	39.93	4460.26 CMSDAY
MEAN	3.46	2.27	3.51	14.38	40.82	29.50	14.43	21.49	7.78	4.46	2.62	1.29	12.22 CMS
MAX	12.91	5.22	15.48	59.80	189.10	139.90	36.00	71.20	12.65	5.34	3.54	2.09	189.10 CMS
MIN	1.65	1.10	1.65	2.97	4.50	12.14	10.85	10.34	5.34	3.54	1.87	0.55	0.55 CMS
RUNOFF	8.965	6.076	9.099	38.504	109.341	76.465	38.657	55.690	20.849	11.939	6.332	3.450	385.367 MCM

MOMENTARY PEAK 358.40 CMS, AT 5.58 M (A.D), AT 18.00 HOURS, ON AUG 25, 1982

RUNOFF YIELD 19.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 580.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

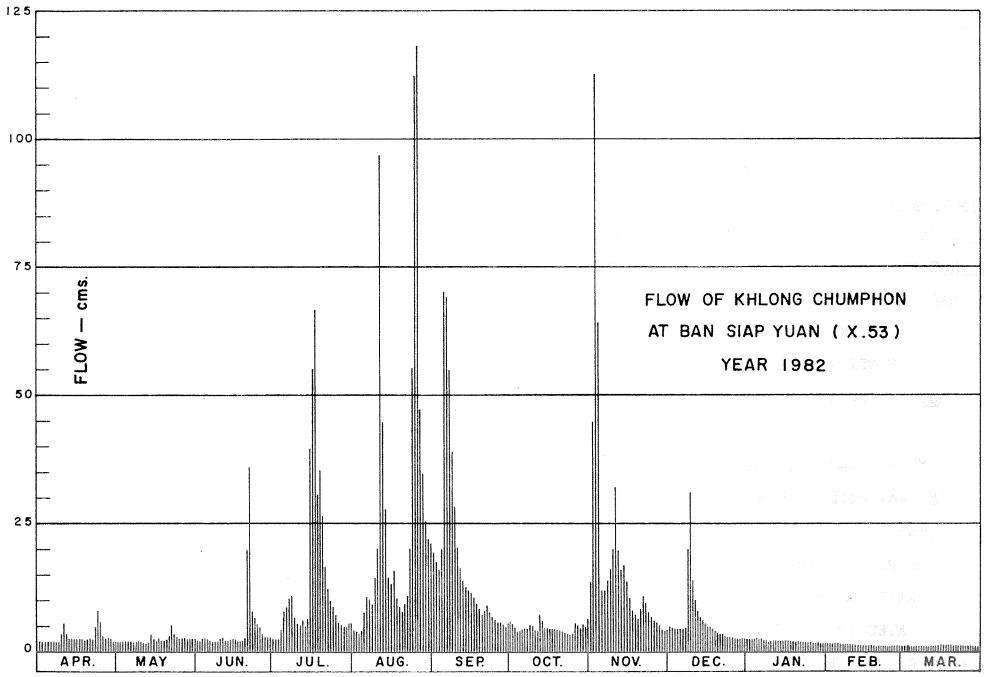
KHLONG CHUMPHON AT BAN SIAP YUAN, CHUMPHON (X.53)

LOCATION	LAT. 10-29-57 N., LONG. 99-04-15 E., ON LEFT BANK UPSTREAM SIDE OF THE BRIDGE NEAR PHAYOM THAWAI SCHOOL, AMPHOE MUANG, CHUMPHON.
DRAINAGE AREA	223 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+9.502 M. (A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1973, 1979 - 1980
RATED BY FLOAT	-
RATED BY CURRENT METER	1973, 1979 - 1980
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 205 DISCHARGE MEASUREMENTS MADE DURING 1973 AND 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.68	0.73	0.73	0.87	1.57	0.97	1.39	0.91	0.72	0.64	0.61	
2	0.70	0.67	0.70	0.72	0.83	1.48	0.92	2.58	0.92	0.72	0.64	0.61	
3	0.69	0.66	0.73	0.74	0.81	1.42	0.88	3.68	0.89	0.74	0.64	0.60	
4	0.66	0.66	0.71	0.86	0.82	1.54	0.87	2.10	0.86	0.74	0.63	0.60	
5	0.65	0.67	0.71	1.10	0.89	2.84	0.86	1.52	0.86	0.72	0.63	0.59	
6	0.65	0.67	0.69	1.12	1.23	2.81	0.84	1.28	0.86	0.71	0.62	0.59	
7	0.67	0.68	0.67	1.18	1.19	2.60	0.85	1.26	0.89	0.71	0.62	0.59	
8	0.68	0.66	0.66	1.20	1.15	2.30	0.87	1.39	1.12	0.71	0.62	0.62	
9	0.66	0.65	0.66	1.03	1.09	1.92	0.92	1.44	1.89	0.71	0.62	0.62	
10	0.79	0.65	0.73	0.93	1.59	1.65	0.85	1.92	1.40	0.70	0.62	0.61	
11	0.93	0.65	0.77	0.90	3.38	1.48	0.87	1.83	1.16	0.70	0.62	0.60	
12	0.73	0.64	0.71	0.93	2.34	1.37	1.03	1.53	1.07	0.69	0.62	0.60	
13	0.74	0.65	0.70	0.88	1.84	1.32	1.00	1.43	1.02	0.69	0.62	0.60	
14	0.74	0.81	0.74	0.97	1.58	1.25	0.89	1.45	0.97	0.69	0.61	0.60	
15	0.74	0.74	0.71	1.95	1.35	1.28	0.85	1.26	0.92	0.69	0.61	0.60	
16	0.72	0.70	0.68	2.47	1.31	1.23	0.85	1.15	0.90	0.68	0.61	0.60	
17	0.71	0.71	0.67	2.77	1.42	1.17	0.87	1.07	0.87	0.68	0.61	0.60	
18	0.68	0.73	0.66	1.86	1.20	1.11	0.88	1.03	0.85	0.68	0.61	0.60	
19	0.68	0.69	0.65	1.99	1.12	1.08	0.82	0.99	0.84	0.68	0.61	0.60	
20	0.72	0.72	0.75	1.83	1.08	1.04	0.81	1.09	0.81	0.67	0.61	0.60	
21	0.72	0.73	2.01	1.43	1.15	1.07	0.81	1.22	0.79	0.67	0.61	0.60	
22	0.74	0.90	1.48	1.30	1.19	1.11	0.79	1.17	0.78	0.69	0.60	0.60	
23	0.85	0.80	1.09	1.17	1.62	1.10	0.79	1.08	0.76	0.67	0.60	0.60	
24	1.06	0.77	0.95	1.06	2.55	1.02	0.78	1.02	0.76	0.66	0.61	0.59	
25	0.84	0.74	0.90	1.07	3.66	0.98	0.78	1.01	0.75	0.66	0.61	0.59	
26	0.78	0.74	0.84	1.05	3.78	0.98	0.92	0.96	0.75	0.65	0.61	0.58	
27	0.74	0.74	0.78	0.94	2.45	0.96	0.91	0.93	0.74	0.65	0.61	0.58	
28	0.76	0.74	0.77	0.90	2.06	0.93	0.86	0.92	0.74	0.65	0.61	0.58	
29	0.72	0.72	0.76	0.87	1.77	0.91	0.92	0.88	0.73	0.65		0.58	
30	0.69	0.72	0.75	0.86	1.62	0.92	0.89	0.89	0.73	0.65		0.57	
31		0.73		0.93	1.58		0.96		0.72	0.64		0.57	
MEAN	0.74	0.71	0.81	1.22	1.63	1.41	0.87	1.38	0.91	0.69	0.62	0.60	
MAX	1.06	0.90	2.01	2.77	3.78	2.84	1.03	3.68	1.89	0.74	0.64	0.62	3.78
MIN	0.65	0.64	0.65	0.72	0.81	0.91	0.78	0.88	0.72	0.64	0.60	0.57	0.57

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.05 M (A.D), AT 22.00 HOURS, ON AUG 25, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.61 M (A.D)
LEFT BANK ELEVATION 9.90 M (A.D)
RIGHT BANK ELEVATION 7.71 M (A.D), DRAINAGE AREA 223 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.34	2.00	2.62	2.62	4.58	20.97	6.26	15.74	5.18	2.48	1.60	1.30	
2	2.20	1.90	2.20	2.48	4.02	18.24	5.36	59.26	5.36	2.48	1.60	1.30	
3	2.10	1.80	2.62	2.76	3.74	16.56	4.72	113.22	4.86	2.76	1.60	1.20	
4	1.80	1.80	2.34	4.44	3.88	20.04	4.58	39.60	4.44	2.76	1.50	1.20	
5	1.70	1.90	2.34	8.80	4.86	70.92	4.44	19.42	4.44	2.48	1.50	1.12	
6	1.70	1.90	2.10	9.24	11.72	69.48	4.16	12.92	4.44	2.34	1.40	1.12	
7	1.90	2.00	1.90	10.56	10.78	60.10	4.30	12.44	4.86	2.34	1.40	1.12	
8	2.00	1.80	1.80	11.00	9.90	47.50	4.58	15.74	9.24	2.34	1.40	1.40	
9	1.80	1.70	1.80	7.40	8.60	32.82	5.36	17.12	31.75	2.34	1.40	1.40	
10	3.46	1.70	2.62	5.54	21.59	23.55	4.30	32.82	16.00	2.20	1.40	1.30	
11	5.54	1.70	3.18	5.00	97.40	18.24	4.58	29.65	10.12	2.20	1.40	1.20	
12	2.62	1.60	2.34	5.54	49.18	15.22	7.40	19.73	8.20	2.10	1.40	1.20	
13	2.76	1.70	2.20	4.72	30.00	13.92	6.80	16.84	7.20	2.10	1.40	1.20	
14	2.76	3.74	2.76	6.26	21.28	12.20	4.86	17.40	6.26	2.10	1.30	1.20	
15	2.76	2.76	2.34	33.90	14.70	12.92	4.30	12.44	5.36	2.10	1.30	1.20	
16	2.48	2.20	2.00	54.64	13.66	11.72	4.30	9.90	5.00	2.00	1.30	1.20	
17	2.34	2.34	1.90	67.62	16.56	10.34	4.58	8.20	4.58	2.00	1.30	1.20	
18	2.00	2.62	1.80	30.70	11.00	9.02	4.72	7.40	4.30	2.00	1.30	1.20	
19	2.00	2.10	1.70	35.34	9.24	8.40	3.88	6.62	4.16	2.00	1.30	1.20	
20	2.48	2.48	2.90	29.65	8.40	7.60	3.74	8.60	3.74	1.90	1.30	1.20	
21	2.48	2.62	36.09	16.84	9.90	8.20	3.74	11.48	3.46	1.90	1.30	1.20	
22	2.76	5.00	18.24	13.40	10.78	9.02	3.46	10.34	3.32	2.10	1.20	1.20	
23	4.30	3.60	8.60	10.34	22.56	8.80	3.46	8.40	3.04	1.90	1.20	1.20	
24	8.00	3.18	5.90	8.00	58.00	7.20	3.32	7.20	3.04	1.80	1.30	1.12	
25	4.16	2.76	5.00	8.20	112.14	6.44	3.32	7.00	2.90	1.80	1.30	1.12	
26	3.32	2.76	4.16	7.80	118.62	6.44	5.36	6.08	2.90	1.70	1.30	1.04	
27	2.76	2.76	3.32	5.72	53.80	6.08	5.18	5.54	2.76	1.70	1.30	1.04	
28	3.04	2.76	3.18	5.00	38.04	5.54	4.44	5.36	2.76	1.70	1.30	1.04	
29	2.48	2.48	3.04	4.58	27.58	5.18	5.36	4.72	2.62	1.70		1.04	
30	2.10	2.48	2.90	4.44	22.56	5.36	4.86	4.86	2.62	1.70		0.97	
31		2.62		5.54	21.28		6.08		2.48	1.60		0.97	
TOTAL	84.14	74.76	135.89	428.07	850.35	568.02	145.80	546.04	181.39	64.62	38.30	36.40	3153.78 CMSDAY
MEAN	2.80	2.41	4.53	13.81	27.43	18.93	4.70	18.20	5.85	2.08	1.37	1.17	8.64 CMS
MAX	8.00	5.00	36.09	67.62	118.62	70.92	7.40	113.22	31.75	2.76	1.60	1.40	118.62 CMS
MIN	1.70	1.60	1.70	2.48	3.74	5.18	3.32	4.72	2.48	1.60	1.20	0.97	0.97 CMS
RUNOFF	7.270	6.459	11.741	36.985	73.470	49.077	12.597	47.178	15.672	5.583	3.309	3.145	272.487 MCM

MOMENTARY PEAK 209.00 CMS, AT 5.05 M (A.D) AT 22.00 HOURS, ON AUG 25, 1982
RUNOFF YIELD 38.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 937.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

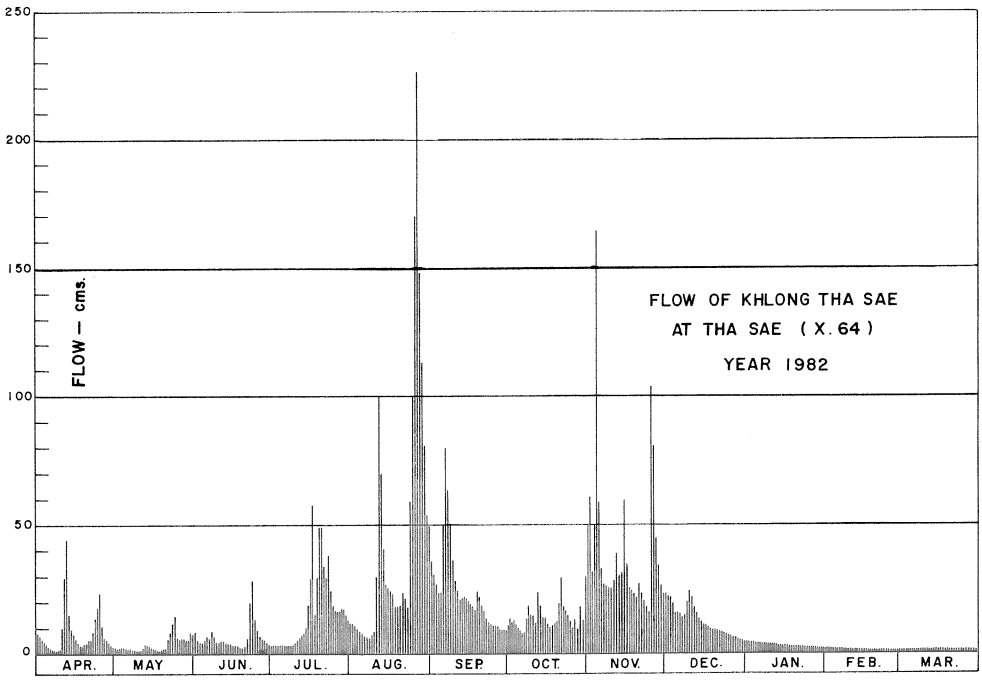
KHLONG THA SAE AT THA SAE, CHUMPHON (X.64)

LOCATION	LAT. 10°-39'-49" N., LONG. 99°-10'-17" E., ON LEFT BANK NEAR THE LAND COOPERATION OFFICE, TAMBON BAN THA KHAM, AMPHOE THA SAE, CHUMPHON.
DRAINAGE AREA	957 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+11.196 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1973 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974-1975, 1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974-1975, 1982 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 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.56	0.89	0.58	1.02	1.79	1.07	2.51	1.43	0.70	0.52	0.42	
2	0.79	0.55	0.70	0.58	0.98	1.61	1.03	1.67	1.33	0.70	0.52	0.41	
3	0.73	0.53	0.65	0.58	0.95	1.49	1.08	2.31	1.36	0.70	0.51	0.41	
4	0.60	0.52	0.65	0.58	0.88	1.38	0.95	4.72	1.22	0.70	0.51	0.41	
5	0.52	0.51	0.80	0.57	0.80	1.37	0.91	2.26	1.15	0.69	0.50	0.40	
6	0.51	0.51	0.77	0.59	0.78	2.95	0.86	1.73	1.14	0.69	0.50	0.40	
7	0.48	0.49	0.89	0.58	0.75	2.69	0.86	1.52	1.09	0.67	0.50	0.40	
8	0.46	0.47	0.73	0.58	0.75	2.20	1.24	1.50	1.07	0.66	0.49	0.40	
9	0.45	0.46	0.66	0.64	0.80	1.86	1.14	1.43	1.32	0.65	0.48	0.40	
10	0.54	0.45	0.64	0.65	0.85	1.60	1.12	1.48	1.44	0.65	0.48	0.40	
11	1.50	0.45	0.71	0.74	1.96	1.44	1.00	1.58	1.24	0.64	0.48	0.40	
12	2.01	0.48	0.70	0.75	3.43	1.33	1.43	1.85	1.15	0.63	0.48	0.40	
13	1.19	0.68	0.71	0.80	2.47	1.35	1.26	1.61	1.07	0.61	0.48	0.39	
14	0.91	0.57	0.66	0.85	1.73	1.35	1.09	1.65	1.03	0.61	0.47	0.39	
15	0.81	0.55	0.65	1.04	1.47	1.20	1.08	1.77	0.99	0.60	0.47	0.38	
16	0.70	0.55	0.60	1.46	1.45	1.22	0.97	2.47	0.96	0.59	0.46	0.38	
17	0.69	0.53	0.58	2.40	1.35	1.19	0.95	1.76	0.92	0.59	0.46	0.38	
18	0.62	0.49	0.61	1.08	1.26	1.15	0.94	1.52	0.89	0.58	0.46	0.38	
19	0.60	0.48	0.56	2.17	1.25	1.40	1.03	1.40	0.87	0.58	0.45	0.38	
20	0.73	0.48	0.53	2.17	1.26	1.29	1.04	1.36	0.85	0.57	0.45	0.38	
21	0.74	0.50	0.64	1.77	1.42	1.15	1.64	1.53	0.83	0.57	0.43	0.37	
22	0.78	0.82	1.56	1.57	1.30	1.08	1.22	1.31	0.81	0.59	0.43	0.41	
23	1.06	0.84	1.13	1.85	1.21	1.03	1.17	1.23	0.80	0.59	0.43	0.38	
24	1.23	1.12	0.95	1.52	2.62	1.02	1.09	1.16	0.79	0.57	0.43	0.38	
25	1.42	0.79	0.80	1.26	3.80	0.99	0.99	3.51	0.78	0.55	0.43	0.37	
26	0.96	0.73	0.77	1.15	5.84	0.96	0.93	3.07	0.77	0.54	0.42	0.36	
27	0.78	0.82	0.73	1.15	4.79	0.92	1.09	1.98	0.75	0.54	0.42	0.36	
28	0.71	0.76	0.64	1.22	3.80	0.90	0.94	1.74	0.74	0.53	0.42	0.36	
29	0.66	0.73	0.62	1.20	3.65	0.90	1.22	1.49	0.73	0.53		0.35	
30	0.62	0.87	0.61	1.10	2.35	0.91	1.05	1.37	0.71	0.53		0.35	
31		0.80		1.02	2.17		1.92		0.71	0.53		0.35	
MEAN	0.82	0.62	0.74	1.10	1.91	1.39	1.11	1.88	1.00	0.61	0.47	0.39	
MAX	2.01	1.12	1.56	2.40	5.84	2.95	1.92	4.72	1.44	0.70	0.52	0.42	5.84
MIN	0.45	0.45	0.53	0.57	0.75	0.90	0.86	1.16	0.71	0.53	0.42	0.35	0.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.33 M (A.D), AT 12.00 HOURS, ON AUG 26, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.29 M (A.D)
LEFT BANK ELEVATION 11.38 M (A.D)
RIGHT BANK ELEVATION 11.01 M (A.D), DRAINAGE AREA 957 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.00	2.90	9.25	3.20	12.60	36.65	14.10	62.40	24.90	5.00	2.30	1.20	
2	6.80	2.75	5.00	3.20	11.50	30.35	12.90	32.45	21.90	5.00	2.30	1.10	
3	5.60	2.45	4.25	3.20	10.75	26.70	14.40	54.85	22.80	5.00	2.15	1.10	
4	3.50	2.30	4.25	3.20	9.00	23.40	10.75	164.60	18.60	5.00	2.15	1.10	
5	2.30	2.15	7.00	3.05	7.00	23.10	9.75	53.10	16.50	4.85	2.00	1.00	
6	2.15	2.15	6.40	3.35	6.60	80.00	8.50	34.55	16.20	4.85	2.00	1.00	
7	1.80	1.90	9.25	3.20	6.00	69.60	8.50	27.60	14.70	4.55	2.00	1.00	
8	1.60	1.70	5.60	3.20	6.00	51.00	19.20	27.00	14.10	4.40	1.90	1.00	
9	1.50	1.60	4.40	4.10	7.00	39.10	16.20	24.90	21.60	4.25	1.80	1.00	
10	2.60	1.50	4.10	4.25	8.25	30.00	15.60	26.40	25.20	4.25	1.80	1.00	
11	27.00	1.50	5.20	5.80	42.60	25.20	12.00	29.40	19.20	4.10	1.80	1.00	
12	44.35	1.80	5.00	6.00	101.35	21.90	24.90	38.75	16.50	3.95	1.80	1.00	
13	17.70	4.70	5.20	7.00	60.80	22.50	19.80	30.35	14.10	3.65	1.80	0.95	
14	9.75	3.05	4.40	8.25	34.55	22.50	14.70	31.75	12.90	3.65	1.70	0.95	
15	7.25	2.75	4.25	13.20	26.10	18.00	14.40	35.95	11.75	3.50	1.70	0.90	
16	5.00	2.75	3.50	25.80	25.50	18.60	11.25	60.80	11.00	3.35	1.60	0.90	
17	4.85	2.45	3.20	58.00	22.50	17.70	10.75	35.60	10.00	3.35	1.60	0.90	
18	3.80	1.90	3.65	14.40	19.80	16.50	10.50	27.60	9.25	3.20	1.60	0.90	
19	3.50	1.80	2.90	49.95	19.50	24.00	12.90	24.00	8.75	3.20	1.50	0.90	
20	5.60	1.80	2.45	49.95	19.80	20.70	13.20	22.80	8.25	3.05	1.50	0.90	
21	5.80	2.00	4.10	35.95	24.60	16.50	31.40	27.90	7.75	3.05	1.30	0.85	
22	6.60	7.50	28.80	29.10	21.00	14.40	18.60	21.30	7.25	3.35	1.30	1.10	
23	13.80	8.00	15.90	38.75	18.30	12.90	17.10	18.90	7.00	3.35	1.30	0.90	
24	18.90	15.60	10.75	27.60	66.80	12.60	14.70	16.80	6.80	3.05	1.30	0.90	
25	24.60	6.80	7.00	19.80	118.00	11.75	11.75	104.95	6.60	2.75	1.30	0.85	
26	11.00	5.60	6.40	16.50	226.20	11.00	10.25	85.15	6.40	2.60	1.20	0.80	
27	6.60	7.50	5.60	16.50	168.45	10.00	14.70	43.30	6.00	2.60	1.20	0.80	
28	5.20	6.20	4.10	18.60	118.00	9.50	10.50	34.90	5.80	2.45	1.20	0.80	
29	4.40	5.60	3.80	18.00	111.25	9.50	18.60	26.70	5.60	2.45		0.75	
30	3.80	8.75	3.65	15.00	56.25	9.75	13.50	23.10	5.20	2.45		0.75	
31		7.00		12.60	49.95		41.20		5.20	2.45		0.75	
TOTAL	265.35	126.45	189.35	520.70	1436.00	735.40	476.60	1247.85	387.80	112.70	47.10	29.05	5574.35 CMSDAY
MEAN	8.85	4.08	6.31	16.80	46.32	24.51	15.37	41.59	12.51	3.64	1.68	0.94	15.27 CMS
MAX	44.35	15.60	28.80	58.00	226.20	80.00	41.20	164.60	25.20	5.00	2.30	1.20	226.20 CMS
MIN	1.50	1.50	2.45	3.05	6.00	9.50	8.50	16.80	5.20	2.45	1.20	0.75	0.75 CMS
RUNOFF	22.926	10.925	16.360	44.988	124.070	63.539	41.178	107.814	33.506	9.737	4.069	2.510	481.624 MCM

MOMENTARY PEAK 253.15 CMS, AT 6.33 M (A.D), AT 12.00 HOURS, ON AUG 26, 1982
RUNOFF YIELD 15.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 264.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

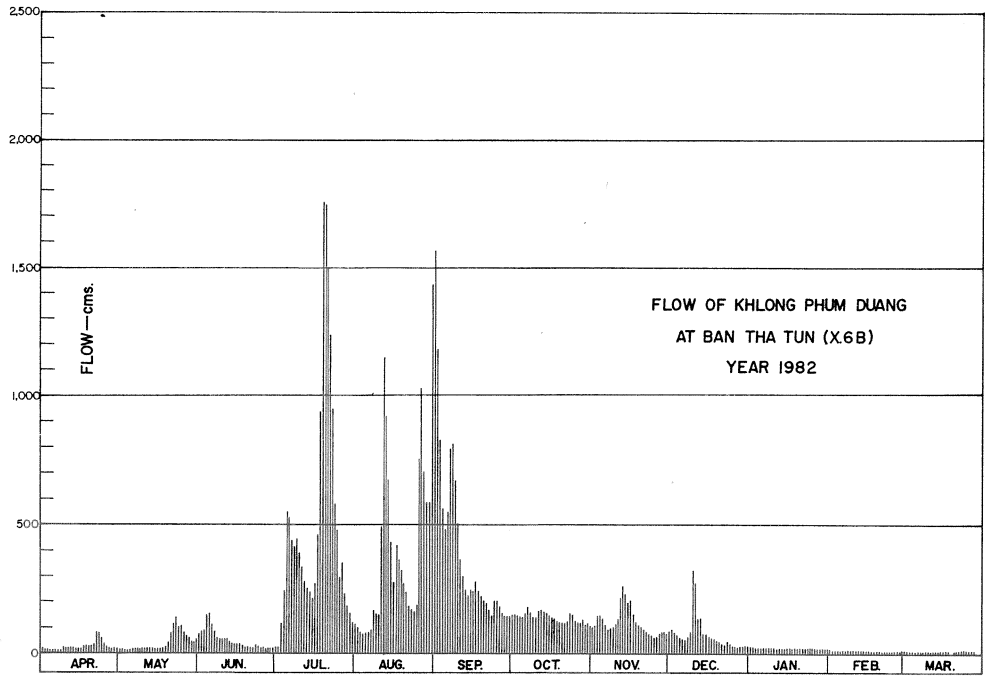
KHLONG PHUM DUANG AT BAN THA TUN, SURAT THANI (X.6B)

LOCATION	LAT. 9°-03'-57" N., LONG. 99°-02'-58" E., ON RIGHT BANK AT BAN THA TUN, TAMBON THAM SINGKHON, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.
DRAINAGE AREA	4,415 SQ KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.030 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR AUTOMATIC GAGE BUILDING.
ELEVATION	+9.00 M(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1969-1973
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 863 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.16	0.99	1.71	1.10	1.99	7.62	2.27	1.85	1.79	1.17	1.01	0.99	
2	1.02	0.95	1.80	1.08	1.84	6.45	2.27	2.01	1.92	1.18	0.99	0.99	
3	1.00	0.94	1.82	1.09	1.75	5.53	2.24	2.28	1.68	1.16	1.00	0.97	
4	0.98	0.93	2.28	2.91	1.67	4.58	2.22	2.30	1.61	1.15	0.99	0.95	
5	0.95	0.96	2.25	4.50	1.71	4.13	2.18	2.19	1.56	1.16	0.98	0.92	
6	0.92	1.03	2.04	4.25	1.74	4.76	2.33	1.95	1.41	1.12	0.96	0.90	
7	0.91	1.05	1.80	3.87	1.82	5.51	2.48	1.75	1.40	1.11	0.96	0.89	
8	0.92	1.06	1.54	3.81	2.45	5.57	2.31	1.91	1.51	1.12	0.93	0.87	
9	1.06	1.05	1.47	4.00	2.36	4.80	2.23	1.88	1.73	1.12	0.95	0.86	
10	1.08	1.08	1.46	3.81	2.29	4.02	2.13	1.97	3.38	1.12	0.93	0.83	
11	1.08	1.14	1.45	3.24	4.69	3.56	2.40	2.10	3.03	1.11	0.94	0.82	
12	1.09	1.12	1.55	3.02	6.53	3.18	2.39	2.87	2.05	1.12	0.93	0.83	
13	1.09	1.10	1.45	2.85	5.75	2.71	2.37	2.99	2.18	1.18	0.94	0.82	
14	1.11	1.07	1.33	2.85	4.33	2.75	2.33	2.54	1.63	1.16	0.94	0.82	
15	1.08	1.08	1.30	2.64	3.42	2.89	2.28	2.61	1.65	1.18	0.97	0.83	
16	1.09	1.06	1.33	3.00	3.00	2.79	2.17	2.66	1.59	1.15	0.92	0.82	
17	1.19	1.08	1.31	4.47	3.92	3.07	2.10	2.35	1.49	1.13	0.93	0.82	
18	1.19	1.13	1.18	7.17	3.58	2.85	2.08	2.09	1.59	1.46	0.91	0.83	
19	1.18	1.18	1.13	8.09	3.26	2.74	2.11	2.00	1.47	1.10	0.91	0.79	
20	1.21	1.29	1.11	8.03	3.01	2.70	2.07	1.88	1.33	1.08	0.90	0.78	
21	1.27	1.67	1.10	7.43	2.70	2.55	2.05	1.84	1.31	1.03	0.89	0.81	
22	1.73	2.05	1.11	6.69	2.45	2.35	2.15	1.82	1.29	1.06	0.89	1.02	
23	1.74	2.17	1.26	5.18	2.43	2.26	2.28	1.71	1.30	1.08	0.89	1.03	
24	1.41	1.89	1.21	4.23	2.32	2.70	2.31	1.63	1.26	1.09	0.89	1.03	
25	1.30	1.96	1.22	3.67	2.51	2.70	2.07	1.58	1.24	1.16	0.88	1.00	
26	1.20	1.68	1.10	2.97	6.20	2.63	2.06	1.63	1.23	1.15	0.90	0.93	
27	1.12	1.66	1.06	3.55	5.20	2.37	2.21	1.77	1.22	1.14	0.95	0.88	
28	1.05	1.51	1.09	2.70	4.83	2.27	2.02	1.85	1.27	1.08	1.01	0.86	
29	1.03	1.36	1.10	2.31	4.63	2.24	2.00	1.78	1.22	1.03		0.82	
30	1.00	1.29	1.07	2.10	4.76	2.23	1.98	1.65	1.21	1.02		0.79	
31		1.40		2.05	5.46		1.90		1.18	1.01		0.74	
MEAN	1.14	1.29	1.42	3.83	3.37	3.55	2.19	2.05	1.60	1.13	0.94	0.88	
MAX	1.74	2.17	2.28	8.09	6.53	7.62	2.48	2.99	3.38	1.46	1.01	1.03	8.09
MIN	0.91	0.93	1.06	1.08	1.67	2.23	1.90	1.58	1.18	1.01	0.88	0.74	0.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.13 M (MSL), AT 15.00 HOURS, ON JUL 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.03 M (MSL), RIVER BED 0.12 M (MSL)
LEFT BANK ELEVATION 8.23 M (MSL)
RIGHT BANK ELEVATION 9.04 M (MSL), DRAINAGE AREA 4415 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	28.8	15.2	82.1	24.0	115.7	1577.0	152.8	98.0	90.9	29.6	16.8	15.2	
2	17.6	12.0	92.0	22.4	96.8	1127.5	152.8	118.3	106.6	30.4	15.2	15.2	
3	16.0	11.2	94.4	23.2	86.5	811.6	148.6	154.2	78.8	28.8	16.0	13.6	
4	14.4	10.4	154.2	251.7	77.7	559.8	145.8	157.0	71.1	28.0	15.2	12.0	
5	12.0	12.8	150.0	543.0	82.1	470.4	140.4	141.7	66.0	28.8	14.4	9.6	
6	9.6	18.4	122.2	492.5	85.4	599.8	161.2	110.5	51.0	25.6	12.8	8.0	
7	8.8	20.0	92.0	423.6	94.4	805.2	183.0	86.5	50.0	24.8	12.8	7.2	
8	9.6	20.8	64.0	412.8	178.5	824.4	158.4	105.3	61.0	25.6	10.4	5.6	
9	20.8	20.0	57.0	447.0	165.4	609.0	147.2	101.6	84.3	25.6	12.0	4.8	
10	22.4	22.4	56.0	412.8	155.6	450.6	133.9	113.1	335.4	25.6	10.4	2.4	
11	22.4	27.2	55.0	310.2	583.8	367.8	171.0	130.0	272.4	24.8	11.2	1.6	
12	23.2	25.6	65.0	270.6	1157.1	299.4	169.6	244.9	123.5	25.6	10.4	2.4	
13	23.2	24.0	55.0	241.5	882.0	218.6	166.8	265.3	140.4	30.4	11.2	1.6	
14	24.8	21.6	43.0	241.5	507.7	225.0	161.2	192.0	73.3	28.8	11.2	1.6	
15	22.4	22.4	40.0	207.4	342.6	248.3	154.2	202.6	75.5	30.4	13.6	2.4	
16	23.2	20.8	43.0	267.0	267.0	231.4	139.1	210.6	69.0	28.0	9.6	1.6	
17	31.2	22.4	41.0	536.4	432.6	279.6	130.0	164.0	59.0	26.4	10.4	1.6	
18	31.2	26.4	30.4	1401.3	371.4	241.5	127.4	128.7	69.0	56.0	8.8	2.4	
19	30.4	30.4	26.4	1768.9	313.8	223.4	131.3	117.0	57.0	24.0	8.8	0.0	
20	32.8	39.2	24.8	1744.3	268.8	217.0	126.1	101.6	43.0	22.4	8.0	0.0	
21	37.6	77.7	24.0	1502.7	217.0	193.5	123.5	96.8	41.0	18.4	7.2	0.8	
22	84.3	123.5	24.8	1216.3	178.5	164.0	136.5	94.4	39.2	20.8	7.2	17.6	
23	85.4	139.1	36.8	706.4	175.5	151.4	154.2	82.1	40.0	22.4	7.2	18.4	
24	51.0	102.8	32.8	488.7	159.8	217.0	158.4	73.3	36.8	23.2	7.2	18.4	
25	40.0	111.8	33.6	387.6	187.5	217.0	126.1	68.0	35.2	28.8	6.4	16.0	
26	32.0	78.8	24.0	261.9	1035.0	205.8	124.8	73.3	34.4	28.0	8.0	10.4	
27	25.6	76.6	20.8	366.0	712.0	166.8	144.4	88.7	33.6	27.2	12.0	6.4	
28	20.0	61.0	23.2	217.0	616.2	152.8	119.6	98.0	37.6	22.4	16.8	4.8	
29	18.4	46.0	24.0	158.4	570.6	148.6	117.0	89.8	33.6	18.4		1.6	
30	16.0	39.2	21.6	130.0	599.8	147.2	114.4	75.5	32.8	17.6		0.0	
31		50.0		123.5	790.0		104.0		30.4	16.8		0.0	
TOTAL	835.1	1329.7	1653.1	15600.6	11506.8	12151.4	4423.7	3782.8	2371.8	813.6	311.2	203.2	54983.0 CMSDAY
MEAN	27.8	42.9	55.1	503.2	371.2	405.0	142.7	126.1	76.5	26.2	11.1	6.6	150.6 CMS
MAX	85.4	139.1	154.2	1768.9	1157.1	1577.0	183.0	265.3	335.4	56.0	16.8	18.4	1768.9 CMS
MIN	8.8	10.4	20.8	22.4	77.7	147.2	104.0	68.0	30.4	16.8	6.4	0.0	0.0 CMS
RUNOFF	72.15	114.89	142.83	1347.89	994.19	1049.88	382.21	326.83	204.92	70.30	26.89	17.56	4750.53 MCM

MOMENTARY PEAK 1785.30 CMS, AT 8.13 M (MSL), AT 15.00 HOURS, ON JUL 19, 1982

RUNOFF YIELD 34.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 404.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

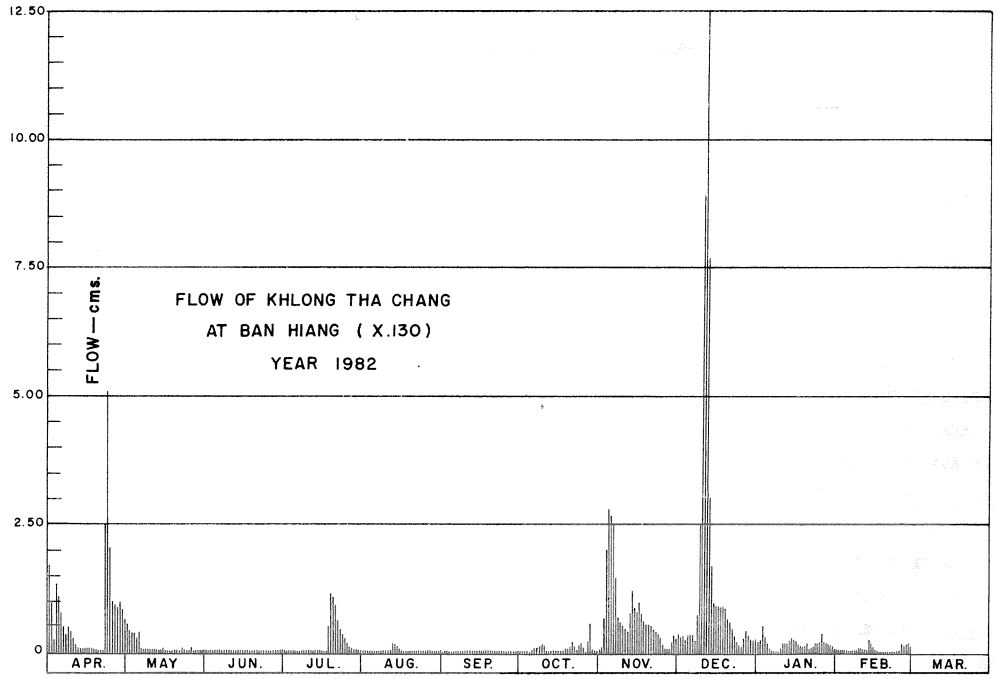
KHLONG THA CHANG AT BAN HIANG, SURAT THANI (X.130)

LOCATION	LAT. 9°-16'-23" N., LONG. 99°-09'-10" E., ON LEFT BANK AT THE BRIDGE OF CHAIYA-THA CHANG, AMPHOE THA CHANG, SURAT THANI.
DRAINAGE AREA	206 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 2.5 METERS FROM THE OBSERVER'S HOUSE.
ELEVATION	+4.623 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1982 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STREAM GAGING BEGAN ON APR. 1, 1982. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.09	0.51	0.10	0.10	0.10	0.10	0.10	0.19	0.40	0.36	0.20	0.01	
2	0.77	0.42	0.10	0.10	0.10	0.10	0.10	0.28	0.33	0.37	0.14	0.01	
3	0.28	0.39	0.10	0.10	0.10	0.10	0.10	1.15	0.35	0.54	0.09	0.01	
4	0.93	0.40	0.10	0.10	0.11	0.10	0.10	1.55	0.31	0.36	0.09	0.01	
5	0.74	0.34	0.10	0.10	0.11	0.10	0.10	1.48	0.36	0.18	0.09	0.01	
6	0.49	0.39	0.10	0.11	0.10	0.10	0.20	1.42	0.37	0.20	0.09	0.01	
7	0.39	0.17	0.10	0.11	0.10	0.10	0.13	0.92	0.31	0.11	0.09	0.01	
8	0.30	0.15	0.10	0.10	0.10	0.10	0.23	0.59	0.28	0.10	0.09	0.01	
9	0.46	0.14	0.10	0.10	0.10	0.10	0.22	0.52	0.83	0.10	0.16	0.01	
10	0.35	0.14	0.11	0.10	0.10	0.10	0.26	0.46	2.00	0.21	0.16	0.01	
11	0.27	0.13	0.10	0.10	0.12	0.13	0.13	0.43	2.79	0.24	0.13	0.01	
12	0.16	0.13	0.13	0.10	0.14	0.13	0.11	0.41	3.52	0.25	0.13	0.01	
13	0.13	0.12	0.14	0.10	0.28	0.10	0.10	0.85	2.58	0.27	0.13	0.01	
14	0.18	0.13	0.10	0.10	0.21	0.10	0.10	0.71	1.40	0.35	0.28	0.01	
15	0.19	0.18	0.10	0.10	0.16	0.10	0.10	0.64	0.90	0.37	0.19	0.01	
16	0.16	0.12	0.10	0.11	0.14	0.15	0.12	0.73	0.75	0.35	0.13	0.01	
17	0.15	0.12	0.10	0.13	0.13	0.10	0.10	0.63	0.72	0.29	0.13	0.01	
18	0.14	0.12	0.10	0.18	0.13	0.10	0.17	0.51	0.71	0.26	0.10	0.01	
19	0.13	0.11	0.10	0.59	0.11	0.10	0.17	0.50	0.71	0.22	0.08	0.01	
20	0.13	0.11	0.10	0.85	0.10	0.10	0.20	0.53	0.61	0.24	0.08	0.01	
21	0.14	0.12	0.10	0.76	0.10	0.14	0.25	0.50	0.53	0.16	0.08	0.01	
22	0.13	0.13	0.10	0.59	0.10	0.13	0.23	0.42	0.49	0.20	0.08	0.01	
23	2.12	0.16	0.11	0.47	0.10	0.10	0.18	0.40	0.40	0.31	0.19	0.01	
24	1.30	0.13	0.11	0.38	0.10	0.10	0.28	0.28	0.30	0.28	0.12	0.01	
25	1.02	0.11	0.10	0.32	0.10	0.10	0.27	0.22	0.23	0.31	0.24	0.01	
26	0.76	0.16	0.10	0.27	0.10	0.10	0.10	0.19	0.22	0.40	0.21	0.01	
27	0.71	0.18	0.10	0.23	0.10	0.10	0.09	0.17	0.27	0.30	0.27	0.01	
28	0.69	0.21	0.10	0.19	0.10	0.10	0.53	0.19	0.43	0.31	0.26	0.01	
29	0.74	0.16	0.10	0.17	0.10	0.10	0.19	0.37	0.36	0.26		0.01	
30	0.57	0.14	0.10	0.15	0.11	0.10	0.13	0.34	0.33	0.22		0.01	
31		0.10		0.10	0.12		0.13		0.35	0.17		0.01	
MEAN	0.52	0.19	0.10	0.23	0.12	0.11	0.17	0.59	0.78	0.27	0.14	0.01	
MAX	2.12	0.51	0.14	0.85	0.28	0.15	0.53	1.55	3.52	0.54	0.28	0.01	**3.52**
MIN	0.13	0.10	0.10	0.10	0.10	0.10	0.09	0.17	0.22	0.10	0.08	0.01	**0.01**

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.55 M (A.D), AT 12.00 HOURS, ON DEC 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.01 M (A.D)
LEFT BANK ELEVATION 4.67 M (A.D)
RIGHT BANK ELEVATION 4.33 M (A.D), DRAINAGE AREA 206 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.70	0.58	0.04	0.04	0.04	0.04	0.04	0.11	0.40	0.34	0.12	0.00	
2	1.03	0.43	0.04	0.04	0.04	0.04	0.04	0.23	0.30	0.36	0.07	0.00	
3	0.23	0.39	0.04	0.04	0.04	0.04	0.04	1.84	0.33	0.63	0.04	0.00	
4	1.34	0.40	0.04	0.04	0.05	0.04	0.04	2.93	0.27	0.34	0.04	0.00	
5	0.97	0.32	0.04	0.04	0.05	0.04	0.04	2.72	0.34	0.10	0.04	0.00	
6	0.54	0.39	0.04	0.05	0.04	0.04	0.12	2.54	0.36	0.12	0.04	0.00	
7	0.39	0.10	0.04	0.05	0.04	0.04	0.06	1.32	0.27	0.05	0.04	0.00	
8	0.26	0.08	0.04	0.04	0.04	0.04	0.16	0.71	0.23	0.04	0.04	0.00	
9	0.50	0.07	0.04	0.04	0.04	0.04	0.15	0.59	1.14	0.04	0.09	0.00	
10	0.33	0.07	0.05	0.04	0.04	0.04	0.20	0.50	4.59	0.13	0.09	0.00	
11	0.22	0.06	0.04	0.04	0.06	0.06	0.06	0.45	8.99	0.18	0.06	0.00	
12	0.09	0.06	0.06	0.04	0.07	0.06	0.05	0.42	14.75	0.19	0.06	0.00	
13	0.06	0.06	0.07	0.04	0.23	0.04	0.04	1.18	7.64	0.22	0.06	0.00	
14	0.10	0.06	0.04	0.04	0.13	0.04	0.04	0.92	2.48	0.33	0.23	0.00	
15	0.11	0.10	0.04	0.04	0.09	0.04	0.04	0.80	1.28	0.36	0.11	0.00	
16	0.09	0.06	0.04	0.05	0.07	0.08	0.06	0.95	0.99	0.33	0.06	0.00	
17	0.08	0.06	0.04	0.06	0.06	0.04	0.04	0.78	0.94	0.25	0.06	0.00	
18	0.07	0.06	0.04	0.10	0.06	0.04	0.10	0.58	0.92	0.20	0.04	0.00	
19	0.06	0.05	0.04	0.71	0.05	0.04	0.10	0.56	0.92	0.15	0.03	0.00	
20	0.06	0.05	0.04	1.18	0.04	0.04	0.12	0.61	0.75	0.18	0.03	0.00	
21	0.07	0.06	0.04	1.01	0.04	0.07	0.19	0.56	0.61	0.09	0.03	0.00	
22	0.06	0.06	0.04	0.71	0.04	0.06	0.16	0.43	0.54	0.12	0.03	0.00	
23	5.14	0.09	0.05	0.51	0.04	0.04	0.10	0.40	0.40	0.27	0.11	0.00	
24	2.20	0.06	0.05	0.37	0.04	0.04	0.23	0.23	0.26	0.23	0.06	0.00	
25	1.54	0.05	0.04	0.29	0.04	0.04	0.22	0.15	0.16	0.27	0.18	0.00	
26	1.01	0.09	0.04	0.22	0.04	0.04	0.04	0.11	0.15	0.40	0.13	0.00	
27	0.92	0.10	0.04	0.16	0.04	0.04	0.04	0.10	0.22	0.26	0.22	0.00	
28	0.88	0.13	0.04	0.11	0.04	0.04	0.61	0.11	0.45	0.27	0.20	0.00	
29	0.97	0.09	0.04	0.10	0.04	0.04	0.11	0.36	0.34	0.20		0.00	
30	0.68	0.07	0.04	0.08	0.05	0.04	0.06	0.32	0.30	0.15		0.00	
31		0.04		0.04	0.06		0.06		0.33	0.10		0.00	
TOTAL	21.70	4.29	1.28	6.32	1.75	1.33	3.36	23.51	51.65	6.90	2.31	0.00	124.40 CMSDAY
MEAN	0.72	0.14	0.04	0.20	0.06	0.04	0.11	0.78	1.67	0.22	0.08	0.00	0.34 CMS
MAX	5.14	0.58	0.07	1.18	0.23	0.08	0.61	2.93	14.75	0.63	0.23	0.00	14.75 CMS
MIN	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.10	0.15	0.04	0.03	0.00	0.00 CMS
RUNOFF	1.875	0.371	0.111	0.546	0.151	0.115	0.290	2.031	4.463	0.596	0.200	0.000	10.748 MCM

MOMENTARY PEAK 15.07 CMS, AT 3.55 M (A.D), AT 12.00 HOURS, ON DEC 12, 1982

RUNOFF YIELD 1.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 73.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

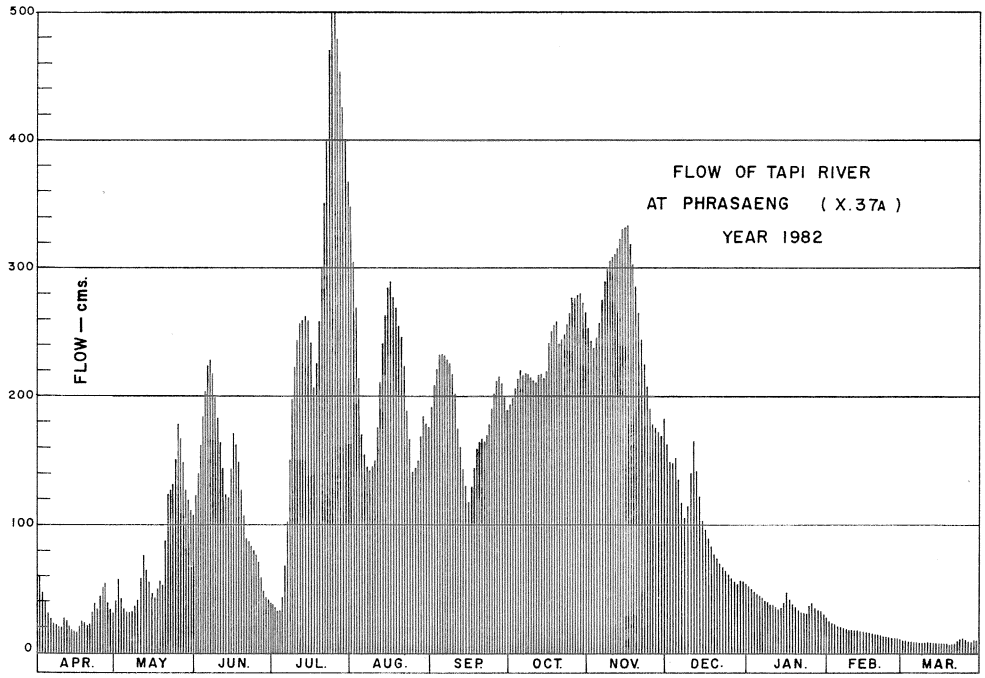
TAPI RIVER AT PHRASAENG, SURAT THANI (X.37A)

LOCATION	LAT. 8°-34'-03" N., LONG. 99°-15'-15" E., ON LEFT BANK AT TAMBON YAN DIN DAENG, AMPHOE PHRASAENG, SURAT THANI.
DRAINAGE AREA	5,200 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+4.83 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+10.572 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 TO DATE.
RATED BY FLOAT	-
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 GOOD. STAGE-DISCHARGE RELATION DEFINED BY 56 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.69	6.40	7.89	6.18	9.95	8.89	8.74	9.33	8.32	6.49	5.97	5.52	
2	6.45	6.60	8.13	6.12	9.58	9.06	8.86	9.22	8.08	6.46	5.93	5.51	
3	6.21	6.41	8.49	6.07	9.02	9.16	8.91	9.23	8.09	6.43	5.89	5.51	
4	6.12	6.16	8.86	6.11	8.53	9.19	9.03	9.40	8.16	6.39	5.87	5.51	
5	5.92	6.06	9.07	6.67	8.30	9.19	8.98	9.60	7.97	6.38	5.84	5.49	
6	5.79	6.03	9.13	7.07	8.19	9.17	8.99	9.75	7.72	6.35	5.82	5.48	
7	5.78	6.06	9.13	7.43	8.01	9.13	9.02	9.83	7.55	6.31	5.80	5.47	
8	5.74	6.17	8.90	8.41	8.10	9.07	9.00	9.89	7.46	6.28	5.77	5.47	
9	5.74	6.25	8.68	9.04	8.15	8.88	8.98	9.89	7.70	6.24	5.75	5.46	
10	5.90	6.31	8.35	9.33	8.15	8.63	8.93	9.91	8.17	6.20	5.74	5.45	
11	5.96	6.66	8.20	9.46	8.70	8.37	8.92	9.92	8.33	6.17	5.73	5.45	
12	5.82	6.96	8.14	9.49	9.30	8.13	9.00	9.95	8.22	6.15	5.71	5.44	
13	5.73	6.76	7.74	9.52	9.60	7.88	9.01	10.00	7.99	6.14	5.69	5.43	
14	5.69	6.45	7.81	9.52	9.76	7.72	8.95	10.03	7.77	6.12	5.67	5.43	
15	5.66	6.28	8.15	9.42	9.79	7.69	9.03	10.07	7.55	6.13	5.67	5.43	
16	5.74	6.28	8.40	9.18	9.70	7.80	9.29	10.05	7.38	6.23	5.65	5.44	
17	5.85	6.47	8.21	8.88	9.59	8.04	9.41	9.95	7.28	6.38	5.64	5.43	
18	5.84	6.59	7.89	9.23	9.53	8.30	9.48	9.80	7.17	6.33	5.62	5.42	
19	5.80	6.51	7.59	9.64	9.41	8.37	9.50	9.62	7.07	6.22	5.61	5.42	
20	5.78	7.18	7.37	9.95	9.18	8.38	9.40	9.39	6.98	6.14	5.60	5.41	
21	5.90	7.77	7.18	10.43	8.84	8.36	9.35	9.20	6.91	6.09	5.59	5.43	
22	6.20	7.78	7.10	10.83	8.53	8.39	9.37	9.07	6.85	6.06	5.59	5.46	
23	6.10	7.90	7.07	11.00	8.29	8.55	9.51	8.91	6.79	6.03	5.58	5.52	
24	6.22	8.28	6.96	11.03	8.07	8.78	9.63	8.70	6.74	6.02	5.57	5.56	
25	6.47	8.52	6.77	11.01	8.02	8.88	9.68	8.52	6.69	6.18	5.56	5.53	
26	6.55	8.30	6.59	10.94	8.13	8.95	9.68	8.51	6.64	6.24	5.55	5.50	
27	6.36	8.06	6.47	10.82	8.39	8.99	9.70	8.47	6.60	6.14	5.55	5.47	
28	6.17	7.84	6.35	10.68	8.62	8.87	9.70	8.41	6.56	6.10	5.53	5.49	
29	6.03	7.80	6.26	10.52	8.57	8.75	9.65	8.45	6.54	6.10		5.51	
30	6.02	7.57	6.21	10.34	8.49	8.66	9.58	8.58	6.57	6.06		5.50	
31		7.46		10.16	8.64		9.46		6.54	6.01		5.48	
MEAN	6.01	6.96	7.77	9.18	8.81	8.61	9.25	9.39	7.37	6.21	5.70	5.47	
MAX	6.69	8.52	9.13	11.03	9.95	9.19	9.70	10.07	8.33	6.49	5.97	5.56	11.03
MIN	5.66	6.03	6.21	6.07	8.01	7.69	8.74	8.41	6.54	6.01	5.53	5.41	5.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.03 M (MSL), AT 1.00 HOURS, ON JUL 23, 1982
ZERO GAGE AT BOTTOM ELEVATION 4.83 M (MSL), RIVER BED 4.45 M (MSL)
LEFT BANK ELEVATION 11.73 M (MSL)
RIGHT BANK ELEVATION 12.82 M (MSL), DRAINAGE AREA 5200 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	62.50	48.00	132.35	37.60	318.00	208.20	196.20	245.55	163.72	52.50	28.80	10.80	
2	50.50	58.00	149.71	34.90	267.70	222.60	205.80	236.20	146.05	51.00	27.20	10.40	
3	38.95	48.50	176.26	32.80	219.20	231.10	209.85	237.05	146.77	49.50	25.60	10.40	
4	34.90	36.70	205.80	34.45	179.40	233.65	220.05	251.50	151.92	47.50	24.80	10.40	
5	26.80	32.40	223.45	61.50	162.25	233.65	215.80	269.50	138.07	47.00	23.60	9.60	
6	21.60	31.20	228.55	82.35	154.14	231.95	216.65	285.50	121.30	45.50	22.80	9.20	
7	21.20	32.40	228.55	103.80	140.97	228.55	219.20	296.40	111.00	43.50	22.00	8.80	
8	19.60	37.15	209.00	170.36	147.50	223.45	217.50	307.20	105.60	42.10	20.80	8.80	
9	19.60	40.75	191.40	220.90	151.19	207.40	215.80	307.20	120.00	40.30	20.00	8.40	
10	26.00	43.50	165.94	245.55	151.19	187.40	211.55	310.80	152.66	38.50	19.60	8.00	
11	28.40	61.00	154.87	256.90	193.00	167.41	210.70	312.60	164.46	37.15	19.20	8.00	
12	22.80	76.30	150.45	259.60	243.00	149.71	217.50	318.00	156.35	36.25	18.40	7.60	
13	19.20	66.00	122.60	262.30	269.50	131.70	218.35	327.00	139.52	35.80	17.60	7.20	
14	17.60	50.50	127.15	262.30	286.60	121.30	213.25	329.80	124.55	34.90	16.80	7.20	
15	16.40	42.10	151.19	253.30	289.90	119.40	220.05	333.53	111.00	35.35	16.80	7.20	
16	19.60	42.10	169.62	232.80	280.00	126.50	242.15	331.67	100.80	39.85	16.00	7.60	
17	24.00	51.50	155.61	207.40	268.60	143.15	252.40	318.00	94.80	47.00	15.60	7.20	
18	23.60	57.50	132.35	237.05	263.20	162.25	258.70	291.00	88.20	44.50	14.80	6.80	
19	22.00	53.50	113.40	273.70	252.40	167.41	260.50	271.60	82.35	39.40	14.40	6.80	
20	21.20	88.80	100.20	318.00	232.80	168.15	251.50	250.65	77.40	35.80	14.00	6.40	
21	26.00	124.55	88.80	375.10	204.20	166.67	247.25	234.50	73.55	33.60	13.60	7.20	
22	38.50	125.20	84.00	456.20	179.40	168.89	248.95	223.45	70.50	32.40	13.60	8.40	
23	34.00	133.00	82.35	498.00	161.51	181.00	261.40	209.85	67.50	31.20	13.20	10.80	
24	39.40	160.77	76.30	506.10	145.32	199.40	272.65	193.00	65.00	30.80	12.80	12.40	
25	51.50	178.60	66.50	500.70	141.70	207.40	277.90	178.60	62.50	37.60	12.40	11.20	
26	55.50	162.25	57.50	483.00	149.71	213.25	277.90	177.80	60.00	40.30	12.00	10.00	
27	46.00	144.60	51.50	453.80	168.89	216.65	280.00	174.79	58.00	35.80	12.00	8.80	
28	37.15	129.10	45.50	422.00	186.60	206.60	280.00	170.36	56.00	34.00	11.20	9.60	
29	31.20	126.50	41.20	390.80	182.60	197.00	274.75	173.31	55.00	34.00		10.40	
30	30.80	112.20	38.95	361.00	176.26	189.80	267.70	183.40	56.50	32.40		10.00	
31		105.60		341.93	188.20		256.90		55.00	30.40		9.20	
TOTAL	926.50	2500.27	3921.05	8376.19	6354.93	5611.59	7418.90	7749.81	3176.07	1215.90	499.60	274.80	48025.61 CMSDAY
MEAN	30.88	80.65	130.70	270.20	205.00	187.05	239.32	258.33	102.45	39.22	17.84	8.86	131.58 CMS
MAX	62.50	178.60	228.55	506.10	318.00	233.65	280.00	333.53	164.46	52.50	28.80	12.40	506.10 CMS
MIN	16.40	31.20	38.95	32.80	140.97	119.40	196.20	170.36	55.00	30.40	11.20	6.40	6.40 CMS
RUNOFF	80.050	216.023	338.779	723.703	549.066	484.841	640.993	669.584	274.412	105.054	43.165	23.743	4149.413 MCM

MOMENTARY PEAK 506.10 CMS, AT 11.03 M (MSL), AT 1.00 HOURS, ON JUL 23, 1982

RUNOFF YIELD 25.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 97.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

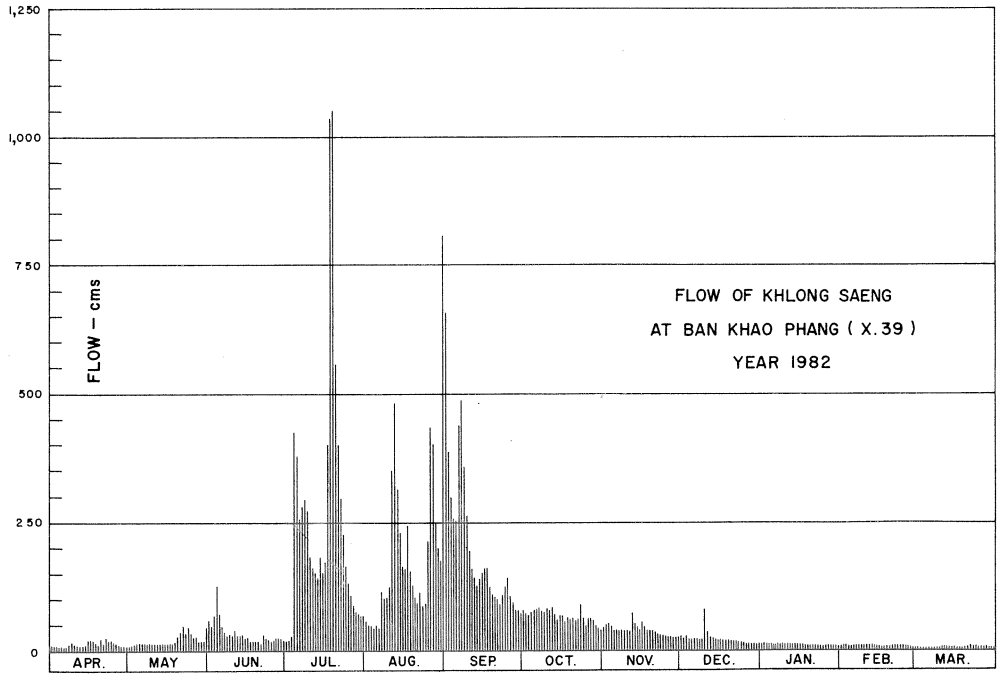
KHLONG SAENG AT BAN KHAO PHANG, SURAT THANI (X.39)

LOCATION	LAT. 8°-57'-07" N., LONG. 98°-48'-53" E., ON LEFT BANK AT BAN KHAO PHANG, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.
DRAINAGE AREA	1,437 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+8.550 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE AUTOMATIC GAGE BUILDING.
ELEVATION	+23.639 M.(M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1969 - 1983.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 - 1983.
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 127 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.28	9.28	10.28	9.50	10.28	15.49	10.52	9.97	9.75	9.42	9.29	9.20	
2	9.27	9.34	10.07	9.47	10.15	13.71	10.43	10.07	9.66	9.42	9.29	9.20	
3	9.25	9.56	10.33	9.77	10.05	12.93	10.39	10.13	9.69	9.42	9.29	9.20	
4	9.24	9.37	11.07	13.81	10.03	12.44	10.47	10.05	9.62	9.41	9.28	9.19	
5	9.23	9.35	10.53	13.49	10.08	12.42	10.56	9.96	9.59	9.41	9.28	9.19	
6	9.21	9.39	10.08	12.50	10.04	13.94	10.55	9.89	9.58	9.40	9.28	9.19	
7	9.24	9.44	9.88	12.56	10.99	14.27	10.62	9.88	9.56	9.39	9.27	9.18	
8	9.34	9.40	9.77	12.78	10.83	13.43	10.51	9.93	9.62	9.39	9.27	9.18	
9	9.38	9.35	9.68	12.58	10.87	12.60	10.31	9.89	9.64	9.39	9.26	9.18	
10	9.37	9.44	9.75	11.82	11.05	12.10	10.58	9.96	10.51	9.38	9.26	9.17	
11	9.33	9.43	9.95	11.53	15.55	11.64	10.56	9.88	9.90	9.37	9.26	9.17	
12	9.31	9.43	9.71	11.42	15.56	11.35	10.59	10.45	9.70	9.37	9.25	9.17	
13	9.27	9.38	9.68	11.27	13.19	11.11	10.46	10.10	9.64	9.37	9.25	9.17	
14	9.25	9.38	9.77	11.69	12.08	11.26	10.34	10.04	9.60	9.36	9.25	9.16	
15	9.43	9.40	9.62	11.18	11.52	11.38	10.36	9.98	9.59	9.36	9.24	9.16	
16	9.51	9.41	9.60	11.64	11.49	11.49	10.41	10.16	9.56	9.36	9.24	9.17	
17	9.51	9.36	9.59	15.19	12.31	11.55	10.23	10.04	9.54	9.36	9.24	9.16	
18	9.36	9.52	9.51	18.55	11.49	11.14	10.34	9.89	9.52	9.35	9.23	9.16	
19	9.34	9.47	9.48	18.60	11.18	10.98	10.29	9.88	9.51	9.35	9.23	9.15	
20	9.49	9.68	9.48	16.28	10.89	10.92	10.29	9.88	9.50	9.34	9.23	9.15	
21	9.39	9.85	9.46	15.12	10.72	10.88	10.20	9.84	9.49	9.34	9.22	9.18	
22	9.61	10.08	9.77	13.46	11.10	10.66	10.23	9.79	9.48	9.33	9.22	9.32	
23	9.51	9.85	9.63	12.23	10.68	10.94	10.66	9.75	9.47	9.33	9.22	9.29	
24	9.48	10.05	9.52	11.65	10.74	11.10	10.23	9.72	9.47	9.32	9.21	9.21	
25	9.39	9.82	9.48	11.24	11.95	11.29	10.10	9.69	9.46	9.32	9.21	9.18	
26	9.33	9.66	9.47	10.96	13.89	10.90	10.33	9.70	9.45	9.32	9.21	9.17	
27	9.30	9.64	9.60	10.74	13.66	10.74	10.29	9.68	9.45	9.31	9.20	9.17	
28	9.28	9.55	9.63	10.57	12.39	10.55	10.13	9.73	9.44	9.31	9.20	9.17	
29	9.26	9.53	9.59	10.43	11.84	10.52	10.09	9.68	9.44	9.31		9.16	
30	9.27	9.54	9.53	10.31	13.50	10.48	10.02	9.64	9.43	9.30		9.16	
31		10.06		10.31	16.46		9.98		9.43	9.30		9.16	
MEAN	9.35	9.55	9.78	12.34	11.82	11.81	10.36	9.91	9.59	9.36	9.25	9.18	
MAX	9.61	10.08	11.07	18.60	16.46	15.49	10.66	10.45	10.51	9.42	9.29	9.32	18.60
MIN	9.21	9.28	9.46	9.47	10.03	10.48	9.98	9.64	9.43	9.30	9.20	9.15	9.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 19.15 M (MSL), AT 6.00 HOURS, ON JUL 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 8.55 M (MSL), RIVER BED 8.36 M (MSL)
LEFT BANK ELEVATION 23.28 M (MSL)
RIGHT BANK ELEVATION 20.70 M (MSL), DRAINAGE AREA 1437 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.20	10.20	62.60	19.00	62.60	659.50	79.60	43.20	31.50	15.80	10.60	7.00	
2	9.80	12.60	49.20	17.80	54.00	412.30	73.10	49.20	27.00	15.80	10.60	7.00	
3	9.00	22.00	66.10	32.50	48.00	313.60	70.30	52.80	28.50	15.80	10.60	7.00	
4	8.60	13.80	123.60	425.30	46.80	259.40	75.90	48.00	25.00	15.40	10.20	6.65	
5	8.20	13.00	80.40	383.70	49.80	257.20	82.80	42.60	23.50	15.40	10.20	6.65	
6	7.40	14.60	49.80	266.00	47.40	442.20	82.00	38.50	23.00	15.00	10.20	6.65	
7	8.60	16.60	38.00	272.60	117.20	487.80	87.60	38.00	22.00	14.60	9.80	6.30	
8	12.60	15.00	32.50	296.80	104.40	375.90	78.80	40.80	25.00	14.60	9.80	6.30	
9	14.20	13.00	28.00	274.80	107.60	277.00	64.70	38.50	26.00	14.60	9.40	6.30	
10	13.80	16.60	31.50	194.00	122.00	222.00	84.40	42.60	78.80	14.20	9.40	5.95	
11	12.20	16.20	42.00	165.00	480.50	176.00	82.80	38.00	39.00	13.80	9.40	5.95	
12	11.40	16.20	29.50	154.80	481.60	148.50	85.20	74.50	29.00	13.80	9.00	5.95	
13	9.80	14.20	28.00	141.30	292.40	126.90	75.20	51.00	26.00	13.80	9.00	5.95	
14	9.00	14.20	32.50	181.00	220.00	140.40	66.80	47.40	24.00	13.40	9.00	5.60	
15	16.20	15.00	25.00	133.20	164.00	151.20	68.20	43.80	23.50	13.40	8.60	5.60	
16	19.50	15.40	24.00	176.00	161.10	161.10	71.70	54.60	22.00	13.40	8.60	5.95	
17	19.50	13.40	23.50	444.00	245.10	167.00	59.10	47.40	21.00	13.40	8.60	5.60	
18	13.40	20.00	19.50	1035.00	161.10	129.60	66.80	38.50	20.00	13.00	8.20	5.60	
19	12.60	17.80	18.20	1050.00	133.20	116.40	63.30	38.00	19.50	13.00	8.20	5.25	
20	18.60	28.00	18.20	567.20	109.20	111.60	63.30	38.00	19.00	12.60	8.20	5.25	
21	14.60	36.50	17.40	437.00	95.60	108.40	57.00	36.00	18.60	12.60	7.80	6.30	
22	24.50	49.80	32.50	308.60	126.00	90.80	59.10	33.50	18.20	12.20	7.80	11.80	
23	19.50	36.50	25.50	236.30	92.40	113.20	90.80	31.50	17.80	12.20	7.80	10.60	
24	18.20	48.00	20.00	177.00	97.20	126.00	59.10	30.00	17.80	11.80	7.40	7.40	
25	14.60	35.00	18.20	138.60	207.00	143.10	51.00	28.50	17.40	11.80	7.40	6.30	
26	12.20	27.00	17.80	114.80	435.70	110.00	66.10	29.00	17.00	11.80	7.40	5.95	
27	11.00	26.00	24.00	97.20	405.80	97.20	63.30	28.00	17.00	11.40	7.00	5.95	
28	10.20	21.50	25.50	83.60	253.90	82.00	52.80	30.50	16.60	11.40	7.00	5.95	
29	9.40	20.50	23.50	73.10	196.00	79.60	50.40	28.00	16.60	11.40		5.60	
30	9.80	21.00	20.50	64.70	385.00	76.60	46.20	26.00	16.20	11.00		5.60	
31		48.60		64.70	805.00		43.80		16.20	11.00		5.60	
TOTAL	388.60	688.20	1047.00	8025.60	6307.60	6162.50	2121.20	1206.40	742.70	413.40	247.20	199.55	27549.96 CMSDAY
MEAN	12.95	22.20	34.90	258.89	203.47	205.42	68.43	40.21	23.96	13.34	8.83	6.44	75.48 CMS
MAX	24.50	49.80	123.60	1050.00	805.00	659.50	90.80	74.50	78.80	15.80	10.60	11.80	1050.00 CMS
MIN	7.40	10.20	17.40	17.80	46.80	76.60	43.80	26.00	16.20	11.00	7.00	5.25	5.25 CMS
RUNOFF	33.575	59.460	90.461	693.412	544.977	532.440	183.272	104.233	64.169	35.718	21.358	17.241	2380.316 MCM

MOMENTARY PEAK 1235.00 CMS, AT 19.15 M (MSL), AT 6.00 HOURS, ON JUL 19, 1982

RUNOFF YIELD 52.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 859.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

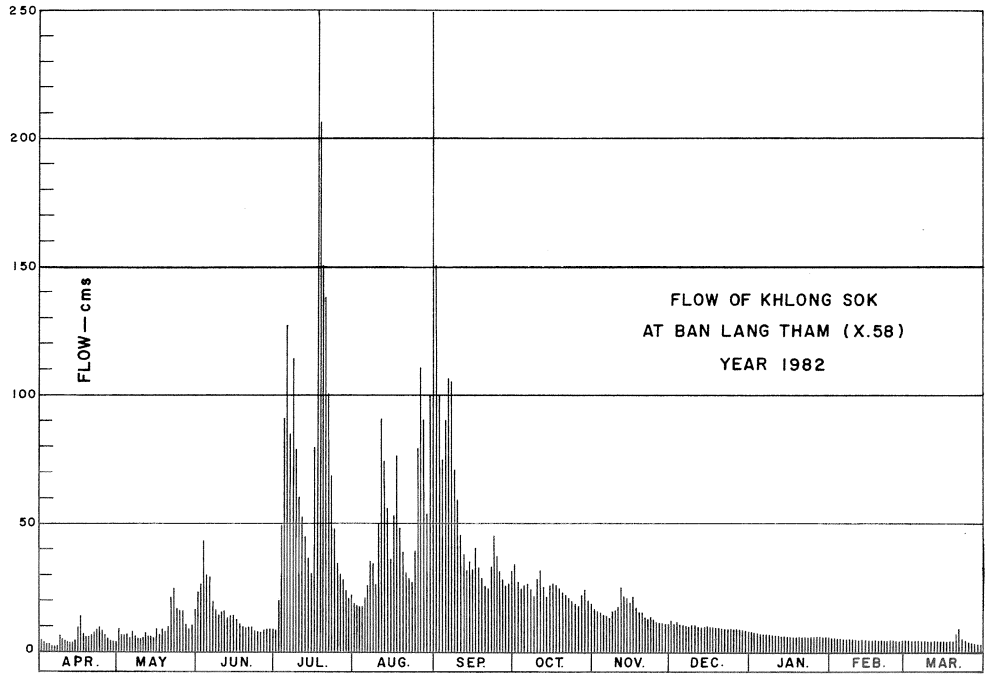
KHLONG SOK AT BAN LANG THAM, SURAT THANI (X.58)

LOCATION	LAT. 8°-53'-05" N., LONG. 98°-40'-06" E., ON RIGHT BANK ABOUT 10 METERS DOWNSTREAM FROM THE BRIDGE OF TAKUAPA-SURAT THANI HIGHWAY, AMPHOE PHANOM, SURAT THANI.
DRAINAGE AREA	312 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.).
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ABOUT 12 METERS FROM THE TOP OF STAFF GAGE, B.M.2 ABOUT 11.5 METERS FROM B.M.1.
ELEVATION	B.M.1 =+7.055 M (A.D.), B.M.2 =+6.942 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1980.
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1980.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANGK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.63	1.24	0.56	1.07	4.48	1.57	0.98	0.80	0.54	0.45	0.37	
2	0.29	0.48	1.36	0.61	1.01	3.40	1.35	0.95	0.74	0.54	0.44	0.37	
3	0.27	0.52	1.87	1.22	0.96	3.15	1.39	0.99	0.79	0.54	0.44	0.36	
4	0.25	0.53	1.73	2.23	1.07	2.71	1.25	0.89	0.74	0.54	0.44	0.36	
5	0.24	0.43	1.43	3.86	1.16	3.07	1.29	0.86	0.71	0.54	0.43	0.36	
6	0.23	0.58	1.39	3.40	1.34	3.44	1.35	0.84	0.70	0.53	0.43	0.35	
7	0.30	0.49	1.05	2.97	1.62	3.38	1.33	0.82	0.68	0.53	0.43	0.35	
8	0.50	0.43	0.94	3.58	1.56	2.89	1.22	0.94	0.68	0.53	0.42	0.35	
9	0.38	0.40	0.85	2.97	1.32	2.42	1.17	0.93	0.69	0.53	0.42	0.35	
10	0.34	0.48	0.92	2.40	2.10	2.16	1.44	0.96	0.72	0.52	0.42	0.35	
11	0.34	0.57	0.97	2.25	3.08	1.85	1.50	1.07	0.67	0.52	0.42	0.34	
12	0.33	0.48	0.83	2.04	2.82	1.65	1.25	1.32	0.66	0.52	0.41	0.34	
13	0.34	0.46	0.80	1.88	2.31	1.52	1.32	1.13	0.65	0.51	0.41	0.34	
14	0.39	0.46	0.90	1.72	1.90	1.61	1.15	1.11	0.64	0.51	0.41	0.34	
15	0.68	0.44	0.79	1.49	1.64	1.51	1.35	1.07	0.64	0.50	0.41	0.33	
16	0.87	0.63	0.82	1.87	2.16	1.77	1.35	1.11	0.64	0.50	0.41	0.33	
17	0.55	0.46	0.74	4.84	2.76	1.59	1.30	1.03	0.63	0.49	0.40	0.33	
18	0.46	0.60	0.68	6.13	2.13	1.52	1.32	0.93	0.62	0.49	0.40	0.32	
19	0.48	0.53	0.65	4.85	1.80	1.36	1.26	0.90	0.61	0.49	0.40	0.32	
20	0.89	0.69	0.63	4.11	1.58	1.33	1.17	0.92	0.60	0.49	0.40	0.33	
21	0.57	1.11	0.65	4.02	1.44	1.28	1.15	0.87	0.59	0.48	0.39	0.61	
22	0.60	1.28	0.70	2.99	1.38	1.25	1.17	0.83	0.59	0.47	0.39	0.44	
23	0.66	1.01	0.63	2.38	1.31	1.90	1.14	0.84	0.59	0.47	0.39	0.40	
24	0.67	0.95	0.59	1.97	1.41	1.72	1.05	0.80	0.59	0.47	0.38	0.38	
25	0.52	0.94	0.56	1.75	2.67	1.64	1.01	0.79	0.58	0.47	0.38	0.35	
26	0.43	0.96	0.56	1.53	3.52	1.48	1.02	0.77	0.58	0.46	0.38	0.34	
27	0.40	0.71	0.61	1.40	3.31	1.36	1.12	0.77	0.57	0.46	0.37	0.33	
28	0.35	0.62	0.62	1.28	2.37	1.30	1.22	0.76	0.57	0.46	0.37	0.33	
29	0.34	0.61	0.61	1.19	2.16	1.34	1.08	0.73	0.56	0.45		0.32	
30	0.36	0.73	0.60	1.12	3.25	1.41	1.10	0.70	0.55	0.45		0.31	
31		1.02		1.19	5.99		0.97		0.55	0.45		0.30	
MEAN	0.45	0.65	0.89	2.45	2.07	2.05	1.24	0.92	0.64	0.50	0.41	0.35	
MAX	0.89	1.28	1.87	6.13	5.99	4.48	1.57	1.32	0.80	0.54	0.45	0.61	6.13
MIN	0.23	0.40	0.56	0.56	0.96	1.25	0.97	0.70	0.55	0.45	0.37	0.30	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.33 M (A.D), AT 1.00 HOURS, ON JUL 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.30 M (A.D)
LEFT BANK ELEVATION 10.60 M (A.D)
RIGHT BANK ELEVATION 11.30 M (A.D), DRAINAGE AREA 312 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.40	9.60	24.72	8.20	19.96	161.40	34.47	17.50	13.00	7.80	6.00	4.55	
2	3.35	6.60	28.08	9.20	18.28	106.00	27.80	16.75	11.80	7.80	5.80	4.55	
3	3.05	7.40	44.45	24.16	17.00	94.75	28.92	17.75	12.80	7.80	5.80	4.40	
4	2.75	7.60	39.69	57.05	19.96	75.40	25.00	15.25	11.80	7.80	5.80	4.40	
5	2.60	5.60	30.13	128.60	22.48	91.15	26.12	14.50	11.20	7.80	5.60	4.40	
6	2.45	8.60	28.92	106.00	27.52	107.92	27.80	14.00	11.00	7.60	5.60	4.25	
7	3.50	6.80	19.40	86.65	36.06	105.10	27.24	13.50	10.60	7.60	5.60	4.25	
8	7.00	5.60	16.50	114.64	34.16	83.05	24.16	16.50	10.60	7.60	5.40	4.25	
9	4.70	5.00	14.25	86.65	26.96	63.80	22.76	16.25	10.80	7.60	5.40	4.25	
10	4.10	6.60	16.00	63.00	52.50	54.60	30.44	17.00	11.40	7.40	5.40	4.25	
11	4.10	8.40	17.25	57.75	91.60	43.75	32.30	19.96	10.40	7.40	5.40	4.10	
12	3.95	6.60	13.75	50.40	79.90	37.05	25.00	26.96	10.20	7.40	5.20	4.10	
13	4.10	6.20	13.00	44.80	59.85	32.92	26.96	21.64	10.00	7.20	5.20	4.10	
14	4.85	6.20	15.50	39.36	45.50	35.73	22.20	21.08	9.80	7.20	5.20	4.10	
15	10.60	5.80	12.80	31.99	36.72	32.61	27.80	19.96	9.80	7.00	5.20	3.95	
16	14.75	9.60	13.50	44.45	54.60	41.01	27.80	21.08	9.80	7.00	5.20	3.95	
17	8.00	6.20	11.80	181.20	77.40	35.09	26.40	18.84	9.60	6.80	5.00	3.95	
18	6.20	9.00	10.60	256.80	53.55	32.92	26.96	16.25	9.40	6.80	5.00	3.80	
19	6.60	7.60	10.00	181.75	42.00	28.08	25.28	15.50	9.20	6.80	5.00	3.80	
20	15.25	10.80	9.60	141.32	34.78	27.24	22.76	16.00	9.00	6.80	5.00	3.95	
21	8.40	21.08	10.00	136.64	30.44	25.84	22.20	14.75	8.80	6.60	4.85	9.20	
22	9.00	25.84	11.00	87.55	28.64	25.00	22.76	13.75	8.80	6.40	4.85	5.80	
23	10.20	18.28	9.60	62.30	26.68	45.50	21.92	14.00	8.80	6.40	4.85	5.00	
24	10.40	16.75	8.80	47.95	29.51	39.36	19.40	13.00	8.80	6.40	4.70	4.70	
25	7.40	16.50	8.20	40.35	73.80	36.72	18.28	12.80	8.60	6.40	4.70	4.25	
26	5.60	17.00	8.20	33.23	111.76	31.68	18.56	12.40	8.60	6.20	4.70	4.10	
27	5.00	11.20	9.20	29.20	101.95	28.08	21.36	12.40	8.40	6.20	4.55	3.95	
28	4.25	9.40	9.40	25.84	61.95	26.40	24.16	12.20	8.40	6.20	4.55	3.95	
29	4.10	9.20	9.20	23.32	54.60	27.52	20.24	11.60	8.20	6.00		3.80	
30	4.40	11.60	9.00	21.36	99.25	29.51	20.80	11.00	8.00	6.00		3.65	
31		18.56		23.32	248.40		17.25		8.00	6.00		3.50	
TOTAL	185.05	321.21	482.54	2245.03	1717.76	1605.18	765.10	484.17	305.60	216.00	145.55	135.25	8608.44 CMSDAY
MEAN	6.17	10.36	16.08	72.42	55.41	53.51	24.68	16.14	9.86	6.97	5.20	4.36	23.58 CMS
MAX	15.25	25.84	44.45	256.80	248.40	161.40	34.47	26.96	13.00	7.80	6.00	9.20	256.80 CMS
MIN	2.45	5.00	8.20	8.20	17.00	25.00	17.25	11.00	8.00	6.00	4.55	3.50	2.45 CMS
RUNOFF	15.988	27.753	41.691	193.971	148.414	138.688	66.105	41.832	26.404	18.662	12.576	11.686	743.769 MCM

MOMENTARY PEAK 268.80 CMS, AT 6.33 M (A.D), AT 1.00 HOURS, ON JUL 18, 1982

RUNOFF YIELD 75.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 861.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

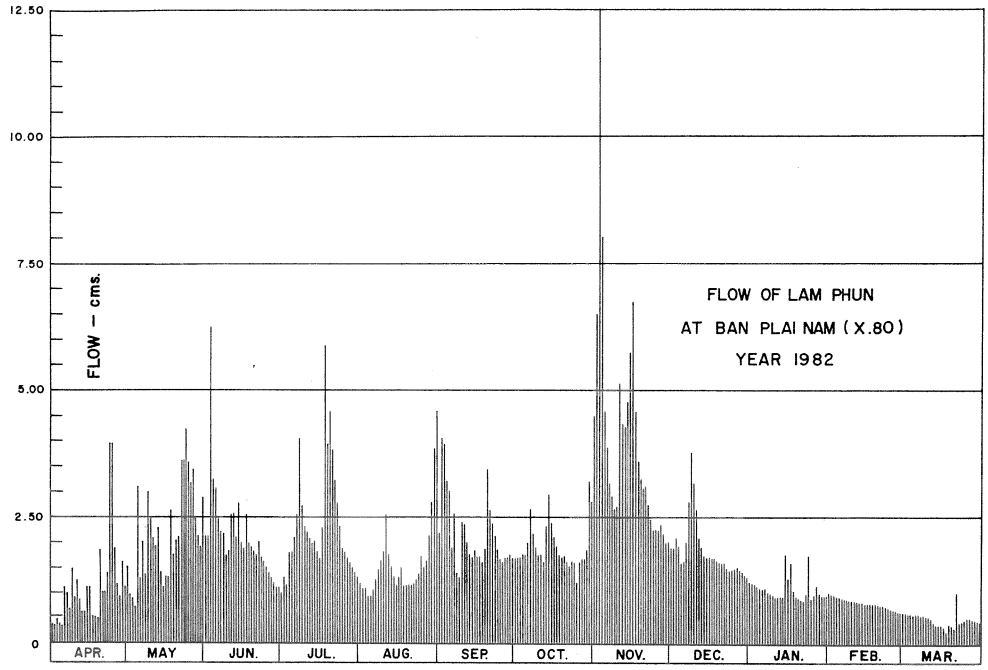
KHLONG LAM PHUN AT BAN PLAI NAM, SURAT THANI (X.80)

LOCATION	LAT. 8°-52'-23" N., LONG. 99°-25'-59" E., ON LEFT BANK AT BAN PLAI NAM, TAMBON LAM PHUN, AMPHOE BAN NA SAN, SURAT THANI.
DRAINAGE AREA	114 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M. -H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+4.120 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DAFINED BY 79 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.36	0.54	0.61	0.47	0.50	0.62	0.56	0.78	0.59	0.50	0.47	0.40	
2	0.35	0.46	0.61	0.51	0.49	0.78	0.56	0.95	0.59	0.50	0.44	0.39	
3	0.37	0.45	0.93	0.49	0.48	0.77	0.56	1.33	0.61	0.49	0.46	0.39	
4	0.36	0.42	0.71	0.58	0.46	0.71	0.57	0.95	0.59	0.49	0.45	0.39	
5	0.35	0.70	0.70	0.58	0.46	0.69	0.57	0.82	0.55	0.48	0.44	0.39	
6	0.48	0.51	0.67	0.64	0.48	0.58	0.59	0.75	0.55	0.48	0.44	0.39	
7	0.47	0.60	0.62	0.65	0.51	0.65	0.66	0.71	0.60	0.48	0.45	0.39	
8	0.41	0.52	0.60	0.78	0.54	0.52	0.60	0.68	0.70	0.47	0.44	0.39	
9	0.53	0.69	0.57	0.67	0.56	0.51	0.59	0.66	0.76	0.47	0.44	0.39	
10	0.45	0.67	0.58	0.63	0.58	0.63	0.57	0.67	0.71	0.46	0.44	0.39	
11	0.51	0.61	0.65	0.62	0.65	0.63	0.57	0.86	0.69	0.45	0.44	0.38	
12	0.43	0.59	0.65	0.61	0.58	0.60	0.55	0.80	0.61	0.46	0.44	0.38	
13	0.40	0.63	0.61	0.60	0.54	0.57	0.65	0.80	0.59	0.46	0.44	0.36	
14	0.40	0.54	0.68	0.60	0.51	0.56	0.73	0.83	0.58	0.45	0.44	0.35	
15	0.48	0.49	0.60	0.58	0.49	0.58	0.64	0.88	0.57	0.57	0.44	0.35	
16	0.48	0.51	0.59	0.56	0.51	0.56	0.61	0.96	0.56	0.51	0.44	0.35	
17	0.38	0.51	0.65	0.62	0.54	0.56	0.59	0.82	0.56	0.55	0.43	0.33	
18	0.38	0.66	0.58	0.91	0.49	0.55	0.57	0.75	0.56	0.47	0.43	0.31	
19	0.38	0.57	0.56	0.77	0.49	0.58	0.56	0.72	0.56	0.46	0.43	0.35	
20	0.59	0.60	0.55	0.82	0.49	0.73	0.56	0.70	0.55	0.45	0.43	0.34	
21	0.47	0.61	0.54	0.77	0.49	0.66	0.55	0.70	0.55	0.44	0.43	0.34	
22	0.47	0.74	0.60	0.70	0.49	0.64	0.54	0.68	0.55	0.44	0.43	0.47	
23	0.54	0.74	0.58	0.66	0.51	0.60	0.55	0.64	0.54	0.46	0.40	0.36	
24	0.77	0.79	0.55	0.63	0.52	0.58	0.55	0.63	0.53	0.57	0.40	0.36	
25	0.77	0.74	0.54	0.59	0.57	0.56	0.50	0.63	0.53	0.44	0.40	0.37	
26	0.59	0.71	0.52	0.58	0.54	0.55	0.55	0.63	0.54	0.46	0.40	0.37	
27	0.50	0.73	0.51	0.56	0.56	0.56	0.56	0.64	0.54	0.49	0.40	0.37	
28	0.45	0.65	0.49	0.55	0.60	0.56	0.56	0.63	0.53	0.47	0.40	0.37	
29	0.55	0.62	0.48	0.54	0.68	0.57	0.58	0.60	0.53	0.46		0.37	
30	0.48	0.59	0.48	0.53	0.70	0.56	0.71	0.60	0.52	0.46		0.37	
31		0.68		0.51	0.82		0.67		0.52	0.46		0.36	
MEAN	0.47	0.61	0.60	0.62	0.54	0.61	0.59	0.76	0.58	0.48	0.43	0.37	
MAX	0.77	0.79	0.93	0.91	0.82	0.78	0.73	1.33	0.76	0.57	0.47	0.47	1.33
MIN	0.35	0.42	0.48	0.47	0.46	0.51	0.50	0.60	0.52	0.44	0.40	0.31	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.48 M (A.D), AT 6.00 HOURS, ON NOV 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.25 M (A.D)
LEFT BANK ELEVATION 3.49 M (A.D)
RIGHT BANK ELEVATION 3.15 M (A.D), DRAINAGE AREA 114 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	1.52	2.11	1.02	1.20	2.22	1.68	4.06	1.92	1.20	1.02	0.60	
2	0.37	0.96	2.11	1.28	1.14	4.06	1.68	6.60	1.92	1.20	0.84	0.55	
3	0.47	0.90	6.26	1.14	1.08	3.94	1.68	15.14	2.11	1.14	0.96	0.55	
4	0.42	0.72	3.22	1.84	0.96	3.22	1.76	6.60	1.92	1.14	0.90	0.55	
5	0.37	3.10	3.10	1.84	0.96	2.99	1.76	4.59	1.60	1.08	0.84	0.55	
6	1.08	1.28	2.77	2.44	1.08	1.84	1.92	3.70	1.60	1.08	0.84	0.55	
7	1.02	2.00	2.22	2.55	1.28	2.55	2.66	3.22	2.00	1.08	0.90	0.55	
8	0.66	1.36	2.00	4.06	1.52	1.36	2.00	2.88	3.10	1.02	0.84	0.55	
9	1.44	2.99	1.76	2.77	1.68	1.28	1.92	2.66	3.82	1.02	0.84	0.55	
10	0.90	2.77	1.84	2.33	1.84	2.33	1.76	2.77	3.22	0.96	0.84	0.55	
11	1.28	2.11	2.55	2.22	2.55	2.33	1.76	5.17	2.99	0.90	0.84	0.51	
12	0.78	1.92	2.55	2.11	1.84	2.00	1.60	4.30	2.11	0.96	0.84	0.51	
13	0.60	2.33	2.11	2.00	1.52	1.76	2.55	4.30	1.92	0.96	0.84	0.42	
14	0.60	1.52	2.88	2.00	1.28	1.68	3.46	4.73	1.84	0.90	0.84	0.37	
15	1.08	1.14	2.00	1.84	1.14	1.84	2.44	5.46	1.76	1.76	0.84	0.37	
16	1.08	1.28	1.92	1.68	1.28	1.68	2.11	6.77	1.68	1.28	0.84	0.37	
17	0.51	1.28	2.55	2.22	1.52	1.68	1.92	4.59	1.68	1.60	0.78	0.29	
18	0.51	2.66	1.84	5.92	1.14	1.60	1.76	3.70	1.68	1.02	0.78	0.19	
19	0.51	1.76	1.68	3.94	1.14	1.84	1.68	3.34	1.68	0.96	0.78	0.37	
20	1.92	2.00	1.60	4.59	1.14	3.46	1.68	3.10	1.60	0.90	0.78	0.33	
21	1.02	2.11	1.52	3.94	1.14	2.66	1.60	3.10	1.60	0.84	0.78	0.33	
22	1.02	3.58	2.00	3.10	1.14	2.44	1.52	2.88	1.60	0.84	0.78	1.02	
23	1.52	3.58	1.84	2.66	1.28	2.00	1.60	2.44	1.52	0.96	0.60	0.42	
24	3.94	4.18	1.60	2.33	1.36	1.84	1.60	2.33	1.44	1.76	0.60	0.42	
25	3.94	3.58	1.52	1.92	1.76	1.68	1.20	2.33	1.44	0.84	0.60	0.47	
26	1.92	3.22	1.36	1.84	1.52	1.60	1.60	2.33	1.52	0.96	0.60	0.47	
27	1.20	3.46	1.28	1.68	1.68	1.68	1.68	2.44	1.52	1.14	0.60	0.47	
28	0.90	2.55	1.14	1.60	2.00	1.68	1.68	2.33	1.44	1.02	0.60	0.47	
29	1.60	2.22	1.08	1.52	2.88	1.76	1.84	2.00	1.44	0.96		0.47	
30	1.08	1.92	1.08	1.44	3.10	1.68	3.22	2.00	1.36	0.96		0.47	
31		2.88		1.28	4.59		2.77		1.36	0.96		0.42	
TOTAL	34.16	68.88	63.49	73.10	49.74	64.68	60.09	121.86	58.39	33.40	22.14	14.71	664.64 CMSDAY
MEAN	1.14	2.22	2.12	2.36	1.60	2.16	1.94	4.06	1.88	1.08	0.79	0.47	1.82 CMS
MAX	3.94	4.18	6.26	5.92	4.59	4.06	3.46	15.14	3.82	1.76	1.02	1.02	15.14 CMS
MIN	0.37	0.72	1.08	1.02	0.96	1.28	1.20	2.00	1.36	0.84	0.60	0.19	0.19 CMS
RUNOFF	2.951	5.951	5.486	6.316	4.298	5.588	5.192	10.529	5.045	2.886	1.913	1.271	57.425 MCM

MOMENTARY PEAK 19.50 CMS, AT 1.48 M (A.D), AT 6.00 HOURS, ON NOV 3, 1982

RUNOFF YIELD 15.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 171.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

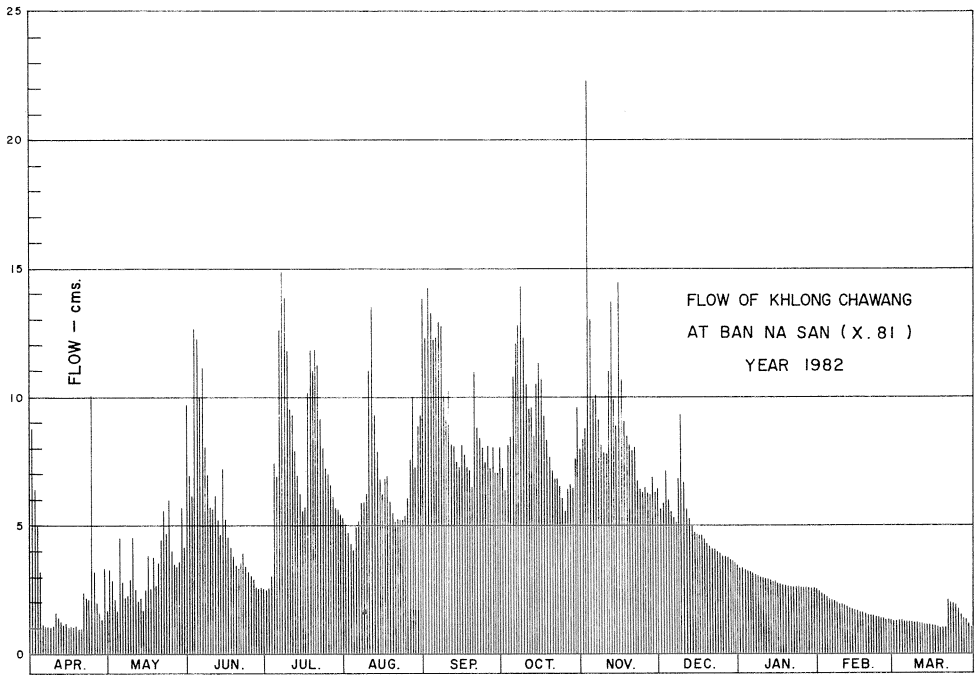
KHLONG CHAWANG AT BAN NA SAN, SURAT THANI (X.81)

LOCATION	LAT. 8°-48'-16" N., LONG. 99°-22'-27" E., ON LEFT BANK AT BAN NA SAN, TAMBON BAN NA SAN, AMPHOE BAN NA SAN, SURAT THANI.
DRAINAGE AREA	219.SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+3.750 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1969 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 94 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.80	1.30	1.66	1.22	1.49	2.05	1.67	1.78	1.56	1.32	1.21	1.06	
2	1.61	1.28	1.59	1.22	1.46	2.19	1.62	1.81	1.57	1.32	1.20	1.06	
3	1.45	1.17	2.08	1.28	1.43	2.29	1.76	2.69	1.68	1.31	1.19	1.05	
4	1.22	1.13	2.05	1.70	1.40	2.05	1.78	2.23	1.59	1.31	1.18	1.05	
5	1.09	1.44	1.89	1.66	1.48	2.06	1.95	1.89	1.55	1.30	1.18	1.05	
6	1.02	1.26	1.97	2.07	1.50	2.09	2.04	1.90	1.52	1.29	1.17	1.04	
7	1.02	1.18	1.78	2.22	1.58	2.08	2.41	1.85	1.50	1.28	1.16	1.04	
8	1.01	1.19	1.67	2.16	1.58	1.93	2.19	1.76	1.65	1.28	1.16	1.04	
9	1.01	1.27	1.56	2.02	1.60	1.83	2.09	1.73	1.85	1.27	1.15	1.04	
10	1.10	1.44	1.55	1.87	1.97	1.90	1.95	1.73	1.68	1.27	1.15	1.04	
11	1.08	1.24	1.59	1.85	2.14	1.76	1.86	1.97	1.57	1.26	1.14	1.04	
12	1.06	1.16	1.52	1.83	1.85	1.75	1.86	2.15	1.53	1.26	1.14	1.03	
13	1.03	1.18	1.46	1.74	1.73	1.71	1.79	1.89	1.50	1.25	1.13	1.03	
14	1.03	1.12	1.69	1.67	1.67	1.69	1.93	1.82	1.47	1.25	1.12	1.03	
15	1.02	1.23	1.53	1.61	1.60	1.76	1.98	2.20	1.46	1.30	1.12	1.03	
16	1.02	1.37	1.45	1.55	1.65	1.73	1.94	1.96	1.45	1.28	1.11	1.03	
17	1.01	1.22	1.41	1.88	1.66	1.69	1.84	1.84	1.45	1.27	1.11	1.02	
18	1.01	1.36	1.38	2.02	1.58	1.68	1.77	1.80	1.44	1.26	1.11	1.02	
19	1.00	1.25	1.34	1.97	1.53	1.63	1.73	1.76	1.42	1.25	1.10	1.02	
20	1.00	1.33	1.31	2.02	1.50	1.96	1.69	1.74	1.41	1.24	1.10	1.01	
21	1.20	1.43	1.34	1.98	1.51	1.81	1.65	1.75	1.40	1.24	1.10	1.01	
22	1.18	1.54	1.37	1.84	1.51	1.78	1.65	1.68	1.40	1.23	1.09	1.18	
23	1.16	1.46	1.33	1.75	1.51	1.75	1.63	1.63	1.39	1.26	1.09	1.17	
24	1.94	1.59	1.30	1.69	1.54	1.70	1.58	1.61	1.38	1.30	1.08	1.17	
25	1.33	1.42	1.28	1.67	1.62	1.74	1.55	1.62	1.37	1.29	1.07	1.15	
26	1.17	1.35	1.27	1.64	1.72	1.69	1.62	1.61	1.37	1.28	1.07	1.13	
27	1.10	1.32	1.24	1.59	1.89	1.75	1.63	1.60	1.37	1.27	1.06	1.10	
28	1.06	1.34	1.23	1.56	1.69	1.66	1.63	1.65	1.36	1.25	1.06	1.08	
29	1.30	1.56	1.23	1.55	1.81	1.67	1.70	1.61	1.35	1.24		1.06	
30	1.12	1.40	1.22	1.53	1.84	1.75	1.86	1.62	1.34	1.23		1.05	
31		1.88		1.50	2.16		1.74		1.33	1.22		1.04	
MEAN	1.17	1.34	1.51	1.74	1.65	1.84	1.81	1.83	1.48	1.27	1.13	1.06	
MAX	1.94	1.88	2.08	2.22	2.16	2.29	2.41	2.69	1.85	1.32	1.21	1.18	2.69
MIN	1.00	1.12	1.22	1.22	1.40	1.63	1.55	1.60	1.33	1.22	1.06	1.01	1.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.71 M (A.D), AT 18.00 HOURS, ON NOV 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.99 M (A.D)
LEFT BANK ELEVATION 3.91 M (A.D)
RIGHT BANK ELEVATION 3.39 M (A.D), DRAINAGE AREA 219 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.70	3.20	6.92	2.48	5.00	12.22	7.04	8.44	5.76	3.38	2.39	1.31	
2	6.32	3.02	6.09	2.48	4.70	14.26	6.44	8.84	5.87	3.38	2.30	1.31	
3	4.60	2.07	12.66	3.02	4.40	15.80	8.18	22.38	7.16	3.29	2.23	1.25	
4	2.48	1.77	12.22	7.40	4.10	12.22	8.44	14.86	6.09	3.29	2.15	1.25	
5	1.49	4.50	9.92	6.92	4.90	12.37	10.78	9.92	5.65	3.20	2.15	1.25	
6	1.07	2.84	11.07	12.51	5.10	12.80	12.08	10.05	5.32	3.11	2.07	1.19	
7	1.07	2.15	8.44	14.71	5.98	12.66	17.71	9.38	5.10	3.02	2.00	1.19	
8	1.01	2.23	7.04	13.82	5.98	10.48	14.26	8.18	6.80	3.02	2.00	1.19	
9	1.01	2.93	5.76	11.79	6.20	9.11	12.80	7.79	9.38	2.93	1.92	1.19	
10	1.55	4.50	5.65	9.65	11.07	10.05	10.78	7.79	7.16	2.93	1.92	1.19	
11	1.43	2.66	6.09	9.38	13.53	8.18	9.51	11.07	5.87	2.84	1.85	1.19	
12	1.31	2.00	5.32	9.11	9.38	8.05	9.51	13.68	5.43	2.84	1.85	1.13	
13	1.13	2.15	4.70	7.92	7.79	7.53	8.57	9.92	5.10	2.75	1.77	1.13	
14	1.13	1.70	7.28	7.04	7.04	7.28	10.48	8.97	4.80	2.75	1.70	1.13	
15	1.07	2.57	5.43	6.32	6.20	8.18	11.21	14.40	4.70	3.20	1.70	1.13	
16	1.07	3.83	4.60	5.65	6.80	7.79	10.63	10.92	4.60	3.02	1.62	1.13	
17	1.01	2.48	4.20	9.78	6.92	7.28	9.24	9.24	4.60	2.93	1.62	1.07	
18	1.01	3.74	3.92	11.79	5.98	7.16	8.31	8.70	4.50	2.84	1.62	1.07	
19	0.95	2.75	3.56	11.07	5.43	6.56	7.79	8.18	4.30	2.75	1.55	1.07	
20	0.95	3.47	3.29	11.79	5.10	10.92	7.28	7.92	4.20	2.66	1.55	1.01	
21	2.30	4.40	3.56	11.21	5.21	8.84	6.80	8.05	4.10	2.66	1.55	1.01	
22	2.15	5.54	3.83	9.24	5.21	8.44	6.80	7.16	4.10	2.57	1.49	2.15	
23	2.00	4.70	3.47	8.05	5.21	8.05	6.56	6.56	4.01	2.84	1.49	2.07	
24	10.63	6.09	3.20	7.28	5.54	7.40	5.98	6.32	3.92	3.20	1.43	2.07	
25	3.47	4.30	3.02	7.04	6.44	7.92	5.65	6.44	3.83	3.11	1.37	1.92	
26	2.07	3.65	2.93	6.68	7.66	7.28	6.44	6.32	3.83	3.02	1.37	1.77	
27	1.55	3.38	2.66	6.09	9.92	8.05	6.56	6.20	3.83	2.93	1.31	1.55	
28	1.31	3.56	2.57	5.76	7.28	6.92	6.56	6.80	3.74	2.75	1.31	1.43	
29	3.20	5.76	2.57	5.65	8.84	7.04	7.40	6.32	3.65	2.66		1.31	
30	1.70	4.10	2.48	5.43	9.24	8.05	9.51	6.44	3.56	2.57		1.25	
31		9.78		5.10	13.82		7.92		3.47	2.48		1.19	
TOTAL	70.74	111.82	164.45	252.16	215.97	278.89	277.22	277.24	154.43	90.92	49.28	41.10	1984.22 CMSDAY
MEAN	2.36	3.61	5.48	8.13	6.97	9.30	8.94	9.24	4.98	2.93	1.76	1.33	5.44 CMS
MAX	10.63	9.78	12.66	14.71	13.82	15.80	17.71	22.38	9.38	3.38	2.39	2.15	22.38 CMS
MIN	0.95	1.70	2.48	2.48	4.10	6.56	5.65	6.20	3.47	2.48	1.31	1.01	0.95 CMS
RUNOFF	6.112	9.661	14.208	21.787	18.660	24.096	23.952	23.954	13.343	7.855	4.258	3.551	171.437 MCM

MOMENTARY PEAK 22.73 CMS, AT 2.71 M (A.D) AT 18.00 HOURS, ON NOV 3, 1982
RUNOFF YIELD 24.82 LITERS/SECOND/SQUARE KM MOMENTARY PEAK YIELD 103.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

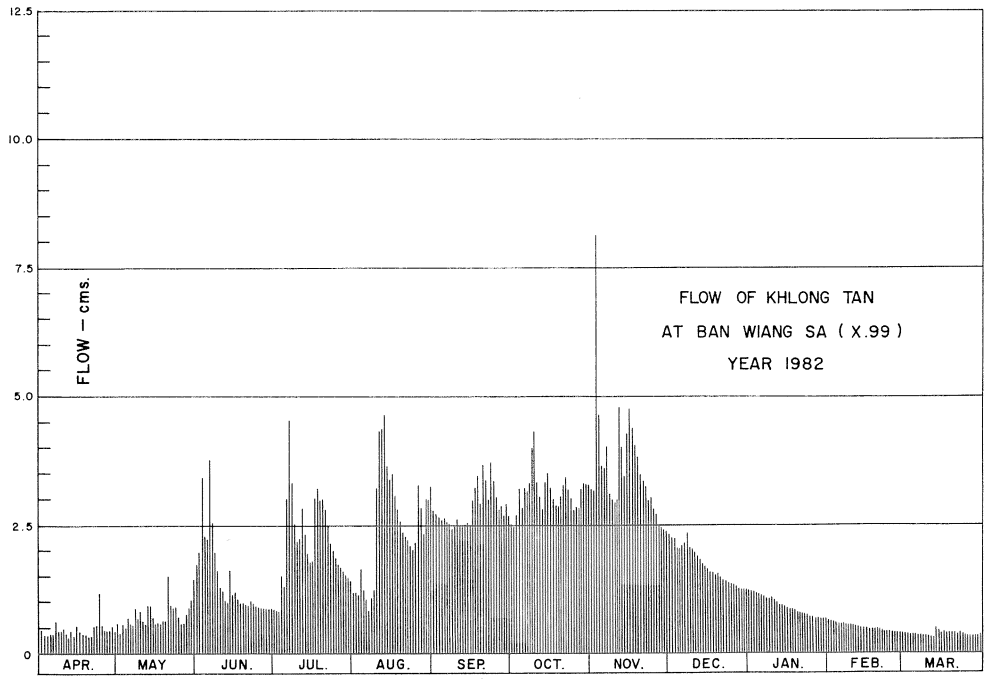
KHLONG TAN AT WIANG SA, SURAT THANI (X.99)

LOCATION	LAT. 8°-38'-07" N., LONG. 99°-22'-59" E., ON RIGHT BANK UPSTREAM SIDE OF THE BRIDGE ON HIGHWAY NEAR BAN WIANG SA SCHOOL, AMPHOE WIANG SA, SURAT THANI.
DRAINAGE AREA	105 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+6.154 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1975 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1975 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1975 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 127 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.39	0.69	0.46	0.54	0.86	0.82	0.93	0.77	0.55	0.40	0.32	
2	0.32	0.33	0.83	0.45	0.55	0.85	0.80	0.93	0.76	0.55	0.40	0.32	
3	0.31	0.38	0.97	0.48	0.53	0.85	0.85	1.61	0.77	0.55	0.40	0.32	
4	0.31	0.35	0.78	0.61	0.83	0.83	0.94	1.14	0.74	0.54	0.40	0.32	
5	0.33	0.41	0.75	0.57	0.76	0.85	0.87	1.00	0.72	0.54	0.40	0.32	
6	0.38	0.38	1.01	0.90	0.73	0.85	0.93	0.99	0.72	0.53	0.39	0.31	
7	0.33	0.39	0.83	1.12	0.68	0.85	0.92	1.05	0.73	0.52	0.39	0.31	
8	0.33	0.47	0.70	0.92	0.74	0.81	0.95	0.93	0.74	0.52	0.38	0.31	
9	0.37	0.41	0.61	0.85	0.76	0.79	1.10	0.90	0.78	0.51	0.38	0.30	
10	0.35	0.45	0.57	0.76	0.92	0.83	0.96	0.89	0.72	0.51	0.38	0.30	
11	0.32	0.39	0.56	0.76	1.10	0.81	0.94	0.91	0.68	0.51	0.37	0.29	
12	0.31	0.38	0.52	0.86	1.11	0.81	0.90	1.17	0.66	0.50	0.37	0.29	
13	0.33	0.38	0.51	0.80	1.14	0.81	0.86	1.01	0.65	0.50	0.37	0.29	
14	0.32	0.48	0.63	0.72	1.00	0.82	0.95	0.97	0.64	0.50	0.36	0.35	
15	0.36	0.47	0.53	0.67	0.94	0.81	0.98	1.13	0.64	0.50	0.36	0.34	
16	0.33	0.44	0.54	0.67	0.97	0.89	0.94	1.16	0.63	0.51	0.36	0.33	
17	0.32	0.39	0.52	0.91	0.92	0.94	0.90	1.12	0.63	0.48	0.35	0.33	
18	0.31	0.39	0.50	0.93	0.87	0.96	0.88	1.06	0.62	0.46	0.35	0.33	
19	0.31	0.38	0.49	0.91	0.81	0.89	0.89	1.01	0.61	0.46	0.35	0.33	
20	0.31	0.41	0.49	0.90	0.79	1.00	0.91	0.97	0.61	0.45	0.35	0.33	
21	0.31	0.61	0.48	0.86	0.78	0.93	0.92	0.96	0.61	0.44	0.35	0.33	
22	0.36	0.47	0.49	0.80	0.75	0.91	0.96	0.93	0.60	0.43	0.34	0.36	
23	0.36	0.46	0.50	0.73	0.72	1.01	0.95	0.89	0.60	0.44	0.34	0.33	
24	0.53	0.47	0.49	0.71	0.71	0.96	0.91	0.90	0.59	0.43	0.34	0.33	
25	0.39	0.41	0.48	0.67	0.74	0.95	0.86	0.86	0.59	0.43	0.34	0.34	
26	0.35	0.39	0.48	0.66	0.94	0.87	0.87	0.85	0.59	0.43	0.34	0.33	
27	0.33	0.39	0.46	0.65	0.88	0.88	0.87	0.82	0.58	0.43	0.33	0.32	
28	0.33	0.45	0.46	0.63	0.78	0.84	0.93	0.81	0.57	0.43	0.33	0.32	
29	0.35	0.60	0.46	0.62	0.91	0.88	0.95	0.80	0.57	0.42		0.31	
30	0.32	0.53	0.46	0.61	0.89	0.85	1.03	0.78	0.56	0.41		0.31	
31		0.59		0.59	0.93		0.94		0.55	0.41		0.31	
MEAN	0.34	0.43	0.59	0.73	0.83	0.87	0.92	0.98	0.65	0.48	0.37	0.32	
MAX	0.53	0.61	1.01	1.12	1.14	1.01	1.10	1.61	0.78	0.55	0.40	0.36	1.61
MIN	0.31	0.33	0.46	0.45	0.53	0.79	0.80	0.78	0.55	0.41	0.33	0.29	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.78 M (A.D), AT 6.00 HOURS, ON NOV 3, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.25 M (A.D)
LEFT BANK ELEVATION 6.65 M (A.D)
RIGHT BANK ELEVATION 5.55 M (A.D), DRAINAGE AREA 105 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.57	1.90	0.84	1.18	2.78	2.56	3.20	2.30	1.23	0.60	0.36	
2	0.36	0.39	2.62	0.80	1.23	2.73	2.45	3.20	2.25	1.23	0.60	0.36	
3	0.33	0.54	3.46	0.92	1.13	2.73	2.73	8.08	2.30	1.23	0.60	0.36	
4	0.33	0.45	2.35	1.50	2.62	2.62	3.26	4.58	2.15	1.18	0.60	0.36	
5	0.39	0.64	2.20	1.31	2.25	2.73	2.84	3.65	2.05	1.18	0.60	0.36	
6	0.54	0.54	3.72	3.00	2.10	2.73	3.20	3.59	2.05	1.13	0.57	0.33	
7	0.39	0.57	2.62	4.44	1.85	2.73	3.13	3.98	2.10	1.09	0.57	0.33	
8	0.39	0.88	1.95	3.13	2.15	2.51	3.33	3.20	2.15	1.09	0.54	0.33	
9	0.51	0.64	1.50	2.73	2.25	2.40	4.30	3.00	2.35	1.04	0.54	0.30	
10	0.45	0.80	1.31	2.25	3.13	2.62	3.39	2.95	2.05	1.04	0.54	0.30	
11	0.36	0.57	1.27	2.25	4.30	2.51	3.26	3.07	1.85	1.04	0.51	0.28	
12	0.33	0.54	1.09	2.78	4.37	2.51	3.00	4.79	1.75	1.00	0.51	0.28	
13	0.39	0.54	1.04	2.45	4.58	2.51	2.78	3.72	1.70	1.00	0.51	0.28	
14	0.36	0.92	1.60	2.05	3.65	2.56	3.33	3.46	1.65	1.00	0.48	0.45	
15	0.48	0.88	1.13	1.80	3.26	2.51	3.52	4.51	1.65	1.00	0.48	0.42	
16	0.39	0.76	1.18	1.80	3.46	2.95	3.26	4.72	1.60	1.04	0.48	0.39	
17	0.36	0.57	1.09	3.07	3.13	3.26	3.00	4.44	1.60	0.92	0.45	0.39	
18	0.33	0.57	1.00	3.20	2.84	3.39	2.89	4.04	1.55	0.84	0.45	0.39	
19	0.33	0.54	0.96	3.07	2.51	2.95	2.95	3.72	1.50	0.84	0.45	0.39	
20	0.33	0.64	0.96	3.00	2.40	3.65	3.07	3.46	1.50	0.80	0.45	0.39	
21	0.33	1.50	0.92	2.78	2.35	3.20	3.13	3.39	1.50	0.76	0.45	0.39	
22	0.48	0.88	0.96	2.45	2.20	3.07	3.39	3.20	1.45	0.72	0.42	0.48	
23	0.48	0.84	1.00	2.10	2.05	3.72	3.33	2.95	1.45	0.76	0.42	0.39	
24	1.13	0.88	0.96	2.00	2.00	3.39	3.07	3.00	1.40	0.72	0.42	0.39	
25	0.57	0.64	0.92	1.80	2.15	3.33	2.78	2.78	1.40	0.72	0.42	0.42	
26	0.45	0.57	0.92	1.75	3.26	2.84	2.84	2.73	1.40	0.72	0.42	0.39	
27	0.39	0.57	0.84	1.70	2.89	2.89	2.84	2.56	1.36	0.72	0.39	0.36	
28	0.39	0.80	0.84	1.60	2.35	2.67	3.20	2.51	1.31	0.72	0.39	0.36	
29	0.45	1.45	0.84	1.55	3.07	2.89	3.33	2.45	1.31	0.68		0.33	
30	0.36	1.13	0.84	1.50	2.95	2.73	3.85	2.35	1.27	0.64		0.33	
31		1.40		1.40	3.20		3.26		1.23	0.64		0.33	
TOTAL	12.80	23.21	43.99	67.02	82.86	86.11	97.27	107.28	53.18	28.72	13.86	11.22	627.52 CMSDAY
MEAN	0.43	0.75	1.47	2.16	2.67	2.87	3.14	3.58	1.72	0.93	0.50	0.36	1.72 CMS
MAX	1.13	1.50	3.72	4.44	4.58	3.72	4.30	8.08	2.35	1.23	0.60	0.48	8.08 CMS
MIN	0.33	0.39	0.84	0.80	1.13	2.40	2.45	2.35	1.23	0.64	0.39	0.28	0.28 CMS
RUNOFF	1.106	2.005	3.801	5.791	7.159	7.440	8.404	9.269	4.595	2.481	1.198	0.969	54.218 MCM

MOMENTARY PEAK 9.44 CMS, AT 1.78 M (A.D), AT 6.00 HOURS, ON NOV 3, 1982

RUNOFF YIELD 16.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

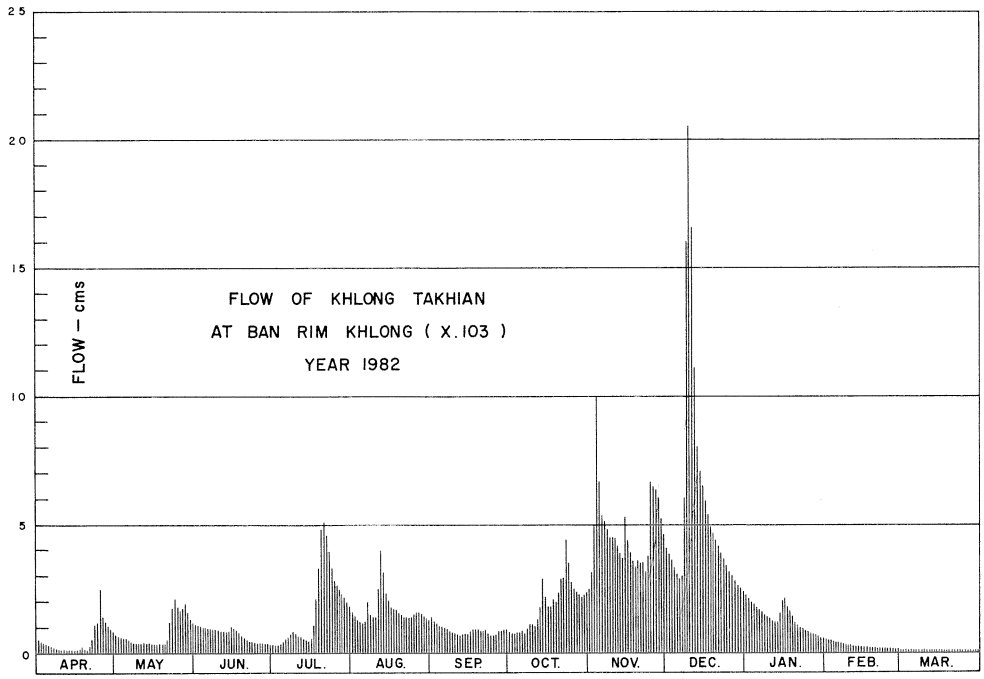
KHLONG TAKHIAN AT BAN RIM KHLONG, SURAT THANI (X.103)

LOCATION	LAT. 9°-25'-31" N., LONG. 99°-09'-44" E., ON RIGHT BANK AT BAN RIM KHLONG, AMPHOE CHAIYA, SURAT THANI.
DRAINAGE AREA	180 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS SOUTH FROM THE OBSERVER'S HOUSE.
ELEVATION	+6.915 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 76 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.31	0.42	0.16	0.53	0.47	0.35	0.73	1.03	0.68	0.27	0.05	
2	0.22	0.30	0.40	0.15	0.48	0.45	0.32	0.86	0.97	0.65	0.25	0.05	
3	0.21	0.29	0.40	0.14	0.45	0.43	0.32	1.21	0.92	0.63	0.23	0.05	
4	0.18	0.26	0.38	0.17	0.43	0.41	0.32	1.79	0.88	0.60	0.21	0.04	
5	0.16	0.25	0.39	0.22	0.42	0.39	0.32	1.42	0.85	0.58	0.19	0.04	
6	0.14	0.24	0.38	0.23	0.44	0.37	0.33	1.22	0.81	0.55	0.18	0.03	
7	0.13	0.21	0.37	0.29	0.62	0.36	0.31	1.14	0.82	0.53	0.17	0.03	
8	0.12	0.24	0.36	0.30	0.50	0.35	0.39	1.14	1.31	0.50	0.20	0.02	
9	0.12	0.22	0.34	0.35	0.49	0.34	0.44	1.08	2.28	0.49	0.18	0.02	
10	0.12	0.21	0.34	0.35	0.49	0.32	0.41	1.07	2.69	0.47	0.17	0.02	
11	0.13	0.20	0.34	0.31	0.72	0.31	0.39	1.08	2.70	0.46	0.16	0.01	
12	0.13	0.18	0.34	0.27	0.99	0.29	0.45	1.01	1.91	0.45	0.16	0.01	
13	0.13	0.18	0.34	0.25	0.87	0.30	0.60	0.97	1.59	0.43	0.15	0.01	
14	0.13	0.18	0.34	0.24	0.73	0.33	0.80	0.94	1.44	0.42	0.14	0.00	
15	0.14	0.18	0.39	0.22	0.67	0.30	0.66	1.21	1.38	0.44	0.13	0.00	
16	0.16	0.21	0.37	0.25	0.61	0.34	0.58	1.06	1.31	0.62	0.13	0.00	
17	0.15	0.22	0.36	0.40	0.57	0.35	0.58	1.02	1.23	0.65	0.13	-0.01	
18	0.14	0.25	0.32	0.74	0.55	0.36	0.65	0.92	1.17	0.59	0.13	-0.01	
19	0.12	0.22	0.29	0.98	0.52	0.35	0.62	0.88	1.12	0.52	0.12	-0.01	
20	0.11	0.18	0.26	1.13	0.49	0.36	0.72	0.93	1.07	0.46	0.12	-0.01	
21	0.12	0.21	0.25	1.18	0.47	0.34	0.80	0.91	1.03	0.42	0.11	-0.02	
22	0.26	0.40	0.25	1.06	0.48	0.35	0.80	0.91	1.00	0.39	0.10	-0.02	
23	0.40	0.59	0.24	0.97	0.48	0.31	1.05	0.86	0.96	0.39	0.09	-0.02	
24	0.44	0.65	0.23	0.88	0.49	0.29	0.91	0.96	0.92	0.37	0.08	-0.02	
25	0.73	0.59	0.21	0.80	0.52	0.28	0.79	1.41	0.88	0.35	0.07	-0.02	
26	0.54	0.52	0.20	0.74	0.52	0.28	0.72	1.38	0.85	0.33	0.07	-0.03	
27	0.46	0.59	0.19	0.70	0.54	0.36	0.70	1.36	0.81	0.33	0.06	-0.03	
28	0.40	0.61	0.18	0.67	0.53	0.36	0.68	1.33	0.78	0.32	0.06	-0.03	
29	0.37	0.52	0.17	0.64	0.51	0.35	0.65	1.19	0.75	0.31		-0.03	
30	0.33	0.48	0.16	0.61	0.48	0.35	0.67	1.10	0.73	0.29		-0.04	
31		0.44		0.59	0.46		0.69		0.71	0.28		-0.04	
MEAN	0.23	0.33	0.31	0.52	0.55	0.35	0.58	1.10	1.19	0.47	0.15	0.00	
MAX	0.73	0.65	0.42	1.18	0.99	0.47	1.05	1.79	2.70	0.68	0.27	0.05	2.70
MIN	0.11	0.18	0.16	0.14	0.42	0.28	0.31	0.73	0.71	0.28	0.06	-0.04	-0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.88 M (A.D), AT 24.00 HOURS, ON DEC 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.57 M (A.D)
LEFT BANK ELEVATION 8.91 M (A.D)
RIGHT BANK ELEVATION 8.87 M (A.D), DRAINAGE AREA 180 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.83	1.18	0.42	1.62	1.38	0.95	2.55	4.28	2.30	0.71	0.25	
2	0.56	0.80	1.10	0.40	1.42	1.30	0.86	3.26	3.92	2.15	0.65	0.25	
3	0.53	0.77	1.10	0.38	1.30	1.22	0.86	5.37	3.62	2.05	0.59	0.25	
4	0.46	0.68	1.04	0.44	1.22	1.14	0.86	9.91	3.38	1.90	0.53	0.24	
5	0.42	0.65	1.07	0.56	1.18	1.07	0.86	6.85	3.20	1.82	0.48	0.24	
6	0.38	0.62	1.04	0.59	1.26	1.01	0.89	5.44	2.96	1.70	0.46	0.23	
7	0.36	0.53	1.01	0.77	2.00	0.98	0.83	4.94	3.02	1.62	0.44	0.23	
8	0.34	0.62	0.98	0.80	1.50	0.95	1.07	4.94	6.07	1.50	0.50	0.22	
9	0.34	0.56	0.92	0.95	1.46	0.92	1.26	4.58	15.02	1.46	0.46	0.22	
10	0.34	0.53	0.92	0.95	1.46	0.86	1.14	4.52	20.36	1.38	0.44	0.22	
11	0.36	0.50	0.92	0.83	2.50	0.83	1.07	4.58	20.50	1.34	0.42	0.21	
12	0.36	0.46	0.92	0.71	4.04	0.77	1.30	4.16	11.10	1.30	0.42	0.21	
13	0.36	0.46	0.92	0.65	3.32	0.80	1.90	3.92	8.17	1.22	0.40	0.21	
14	0.36	0.46	0.92	0.62	2.55	0.89	2.90	3.74	7.00	1.18	0.38	0.20	
15	0.38	0.46	1.07	0.56	2.25	0.80	2.20	5.37	6.56	1.26	0.36	0.20	
16	0.42	0.53	1.01	0.65	1.95	0.92	1.82	4.46	6.07	2.00	0.36	0.20	
17	0.40	0.56	0.98	1.10	1.78	0.95	1.82	4.22	5.51	2.15	0.36	0.19	
18	0.38	0.65	0.86	2.60	1.70	0.98	2.15	3.62	5.12	1.86	0.36	0.19	
19	0.34	0.56	0.77	3.98	1.58	0.95	2.00	3.38	4.82	1.58	0.34	0.19	
20	0.32	0.46	0.68	4.88	1.46	0.98	2.50	3.68	4.52	1.34	0.34	0.19	
21	0.34	0.53	0.65	5.18	1.38	0.92	2.90	3.56	4.28	1.18	0.32	0.18	
22	0.68	1.10	0.65	4.46	1.42	0.95	2.90	3.56	4.10	1.07	0.30	0.18	
23	1.10	1.86	0.62	3.92	1.42	0.83	4.40	3.26	3.86	1.07	0.29	0.18	
24	1.26	2.15	0.59	3.38	1.46	0.77	3.56	3.86	3.62	1.01	0.28	0.18	
25	2.55	1.86	0.53	2.90	1.58	0.74	2.85	6.77	3.38	0.95	0.27	0.18	
26	1.66	1.58	0.50	2.60	1.58	0.74	2.50	6.56	3.20	0.89	0.27	0.17	
27	1.34	1.86	0.48	2.40	1.66	0.98	2.40	6.42	2.96	0.89	0.26	0.17	
28	1.10	1.95	0.46	2.25	1.62	0.98	2.30	6.21	2.80	0.86	0.26	0.17	
29	1.01	1.58	0.44	2.10	1.54	0.95	2.15	5.24	2.65	0.83		0.17	
30	0.89	1.42	0.42	1.95	1.42	0.95	2.25	4.70	2.55	0.77		0.16	
31		1.26		1.86	1.34		2.35		2.45	0.74		0.16	
TOTAL	19.99	28.84	24.75	55.84	53.97	28.51	59.80	143.63	181.05	43.37	11.25	6.24	657.24 CMSDAY
MEAN	0.67	0.93	0.83	1.80	1.74	0.95	1.93	4.79	5.84	1.40	0.40	0.20	1.80 CMS
MAX	2.55	2.15	1.18	5.18	4.04	1.38	4.40	9.91	20.50	2.30	0.71	0.25	20.50 CMS
MIN	0.32	0.46	0.42	0.38	1.18	0.74	0.83	2.55	2.45	0.74	0.26	0.16	0.16 CMS
RUNOFF	1.727	2.492	2.138	4.825	4.663	2.463	5.167	12.410	15.643	3.747	0.972	0.539	56.786 MCM

MOMENTARY PEAK 23.28 CMS, AT 2.88 M (A.D), AT 24.00 HOURS, ON DEC 10, 1982

RUNOFF YIELD 10.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 129.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

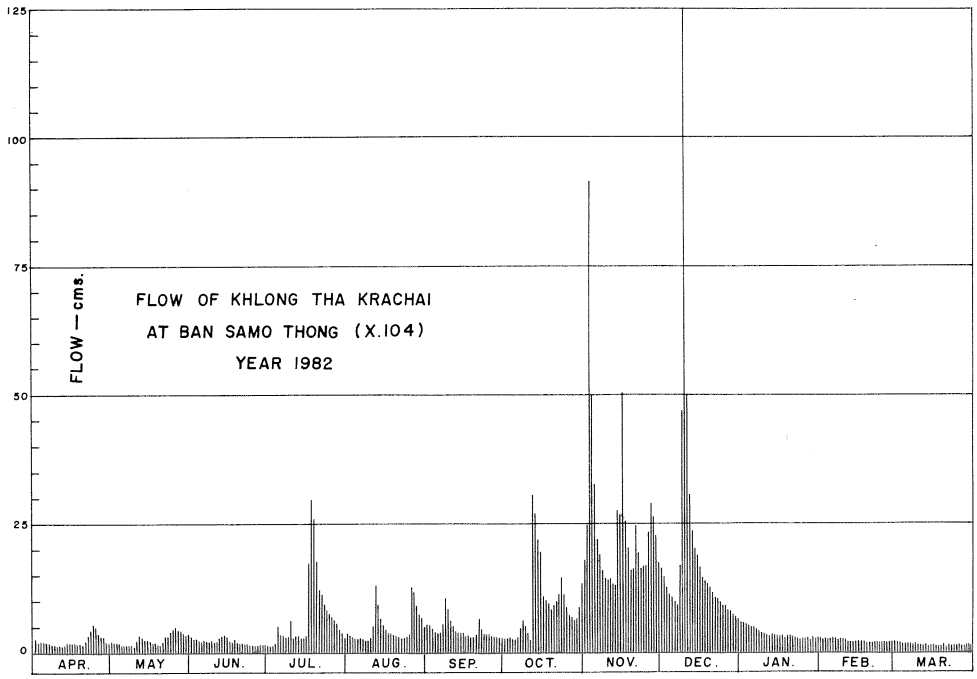
KHLONG THA KRACHAI AT BAN SAMO THONG, SURAT THANI (X.104)

LOCATION	LAT. 9°-34'-47" N., LONG. 99°-08'-14" E., ON LEFT BANK AT BAN SAMO THONG, AMPHOE THA CHANA, SURAT THANI.
DRAINAGE AREA	354 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 21 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+8.574 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.69	0.79	0.61	0.83	0.98	0.73	1.61	1.45	0.99	0.73	0.64	
2	0.68	0.66	0.73	0.61	0.80	0.94	0.76	1.86	1.38	0.97	0.73	0.63	
3	0.67	0.65	0.71	0.61	0.78	0.90	0.76	3.25	1.33	0.96	0.73	0.63	
4	0.65	0.64	0.73	0.65	0.76	0.88	0.74	2.19	1.28	0.95	0.72	0.63	
5	0.63	0.63	0.72	0.98	0.75	0.86	0.73	1.88	1.21	0.93	0.72	0.63	
6	0.64	0.63	0.71	0.85	0.73	0.91	0.72	1.67	1.18	0.91	0.71	0.62	
7	0.63	0.62	0.70	0.79	0.72	1.06	0.74	1.53	1.15	0.90	0.71	0.62	
8	0.63	0.62	0.71	0.78	0.73	1.19	0.95	1.48	1.52	0.89	0.70	0.62	
9	0.63	0.64	0.69	0.79	0.75	1.12	1.02	1.39	2.41	0.88	0.70	0.62	
10	0.62	0.62	0.69	1.00	0.76	0.97	0.89	1.38	3.93	0.86	0.69	0.62	
11	0.62	0.64	0.69	0.82	0.98	0.96	0.87	1.40	2.33	0.85	0.69	0.61	
12	0.62	0.84	0.72	0.82	1.34	0.91	1.90	1.36	1.93	0.86	0.68	0.61	
13	0.62	0.74	0.78	0.79	1.13	0.88	1.88	1.36	1.75	0.84	0.68	0.61	
14	0.65	0.71	0.81	0.77	1.01	0.87	1.61	1.85	1.61	0.83	0.68	0.61	
15	0.67	0.70	0.77	0.75	0.94	0.85	1.38	1.84	1.54	0.82	0.68	0.61	
16	0.68	0.69	0.74	0.88	0.88	0.83	1.25	2.45	1.48	0.88	0.67	0.60	
17	0.65	0.68	0.71	1.68	0.86	0.82	1.19	1.79	1.39	0.88	0.67	0.60	
18	0.63	0.67	0.69	1.87	0.83	0.82	1.15	1.59	1.34	0.85	0.66	0.60	
19	0.65	0.67	0.67	1.79	0.81	0.81	1.12	1.47	1.29	0.83	0.66	0.60	
20	0.64	0.66	0.65	1.49	0.78	0.85	1.14	1.48	1.24	0.81	0.66	0.60	
21	0.68	0.65	0.64	1.33	0.77	0.99	1.20	1.72	1.21	0.80	0.66	0.60	
22	0.89	0.84	0.64	1.25	0.76	0.87	1.28	1.53	1.18	0.80	0.66	0.62	
23	0.94	0.86	0.63	1.15	0.75	0.83	1.39	1.47	1.15	0.83	0.65	0.60	
24	1.03	0.92	0.63	1.12	0.78	0.81	1.22	1.51	1.11	0.83	0.65	0.60	
25	0.90	0.93	0.63	1.06	0.86	0.80	1.14	1.51	1.08	0.81	0.65	0.59	
26	0.80	0.92	0.62	0.97	1.35	0.78	1.09	1.76	1.07	0.79	0.65	0.59	
27	0.75	0.91	0.62	0.97	1.29	0.77	1.06	1.86	1.05	0.77	0.64	0.59	
28	0.71	0.87	0.61	0.95	1.13	0.76	1.03	1.79	1.03	0.76	0.64	0.58	
29	0.69	0.82	0.61	0.91	1.05	0.75	1.05	1.65	1.01	0.77		0.58	
30	0.67	0.81	0.61	0.86	1.00	0.74	1.21	1.53	1.00	0.75		0.58	
31		0.82		0.84	0.95		1.45		0.99	0.74		0.58	
MEAN	0.70	0.73	0.69	0.99	0.90	0.88	1.12	1.71	1.44	0.85	0.68	0.61	
MAX	1.03	0.93	0.81	1.87	1.35	1.19	1.90	3.25	3.93	0.99	0.73	0.64	3.93
MIN	0.62	0.62	0.61	0.61	0.72	0.74	0.72	1.36	0.99	0.74	0.64	0.58	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.32 M (A.D), AT 6.00 HOURS, ON DEC 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 11.10 M (A.D)
RIGHT BANK ELEVATION 10.90 M (A.D), DRAINAGE AREA 354 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.10	1.90	2.90	1.10	3.31	5.61	2.30	20.82	16.00	5.81	2.30	1.40	
2	1.80	1.60	2.30	1.10	3.00	4.83	2.60	29.10	14.01	5.42	2.30	1.30	
3	1.70	1.50	2.10	1.10	2.80	4.05	2.60	91.75	12.79	5.22	2.30	1.30	
4	1.50	1.40	2.30	1.50	2.60	3.84	2.40	41.12	11.64	5.03	2.20	1.30	
5	1.30	1.30	2.20	5.61	2.50	3.63	2.30	29.80	10.21	4.64	2.20	1.30	
6	1.40	1.30	2.10	3.53	2.30	4.25	2.20	22.74	9.60	4.25	2.10	1.20	
7	1.30	1.20	2.00	2.90	2.20	7.20	2.40	18.40	9.00	4.05	2.10	1.20	
8	1.30	1.20	2.10	2.80	2.30	9.80	5.03	16.90	18.10	3.95	2.00	1.20	
9	1.30	1.40	1.90	2.90	2.50	8.40	6.40	14.26	49.95	3.84	2.00	1.20	
10	1.20	1.20	1.90	6.00	2.60	5.42	3.95	14.01	129.80	3.63	1.90	1.20	
11	1.20	1.40	1.90	3.21	5.61	5.22	3.74	14.50	46.70	3.53	1.90	1.10	
12	1.20	3.42	2.20	3.21	13.03	4.25	30.50	13.52	31.55	3.63	1.80	1.10	
13	1.20	2.40	2.80	2.90	8.60	3.84	29.80	13.52	25.35	3.42	1.80	1.10	
14	1.50	2.10	3.11	2.70	6.20	3.74	20.82	28.75	20.82	3.31	1.80	1.10	
15	1.70	2.00	2.70	2.50	4.83	3.53	14.01	28.40	18.70	3.21	1.80	1.10	
16	1.80	1.90	2.40	3.84	3.84	3.31	11.03	51.75	16.90	3.84	1.70	1.00	
17	1.50	1.80	2.10	23.06	3.63	3.21	9.80	26.67	14.26	3.84	1.70	1.00	
18	1.30	1.70	1.90	29.45	3.31	3.21	9.00	20.20	13.03	3.53	1.60	1.00	
19	1.50	1.70	1.70	26.67	3.11	3.11	8.40	16.60	11.85	3.31	1.60	1.00	
20	1.40	1.60	1.50	17.20	2.80	3.53	8.80	16.90	10.82	3.11	1.60	1.00	
21	1.80	1.50	1.40	12.79	2.70	5.81	10.00	24.36	10.21	3.00	1.60	1.00	
22	3.95	3.42	1.40	11.03	2.60	3.74	11.64	18.40	9.60	3.00	1.60	1.20	
23	4.83	3.63	1.30	9.00	2.50	3.31	14.26	16.60	9.00	3.31	1.50	1.00	
24	6.60	4.44	1.30	8.40	2.80	3.11	10.41	17.80	8.20	3.31	1.50	1.00	
25	4.05	4.64	1.30	7.20	3.63	3.00	8.80	17.80	7.60	3.11	1.50	0.90	
26	3.00	4.44	1.20	5.42	13.28	2.80	7.80	25.68	7.40	2.90	1.50	0.90	
27	2.50	4.25	1.20	5.42	11.85	2.70	7.20	29.10	7.00	2.70	1.40	0.90	
28	2.10	3.74	1.10	5.03	8.60	2.60	6.60	26.67	6.60	2.60	1.40	0.80	
29	1.90	3.21	1.10	4.25	7.00	2.50	7.00	22.10	6.20	2.70		0.80	
30	1.70	3.11	1.10	3.63	6.00	2.40	10.21	18.40	6.00	2.50		0.80	
31		3.21		3.42	5.03		16.00		5.81	2.40		0.80	
TOTAL	61.63	73.61	56.51	218.87	147.06	125.95	288.00	746.62	574.70	112.10	50.70	33.20	2488.95 CMSDAY
MEAN	2.05	2.37	1.88	7.06	4.74	4.20	9.29	24.89	18.54	3.62	1.81	1.07	6.82 CMS
MAX	6.60	4.64	3.11	29.45	13.28	9.80	30.50	91.75	129.80	5.81	2.30	1.40	129.80 CMS
MIN	1.20	1.20	1.10	1.10	2.20	2.40	2.20	13.52	5.81	2.40	1.40	0.80	0.80 CMS
RUNOFF	5.325	6.360	4.882	18.910	12.706	10.882	24.883	64.508	49.654	9.685	4.380	2.868	215.045 MCM

MOMENTARY PEAK 153.20 CMS, AT 4.32 M (A.D), AT 6.00 HOURS, ON DEC 10, 1982
RUNOFF YIELD 19.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 432.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

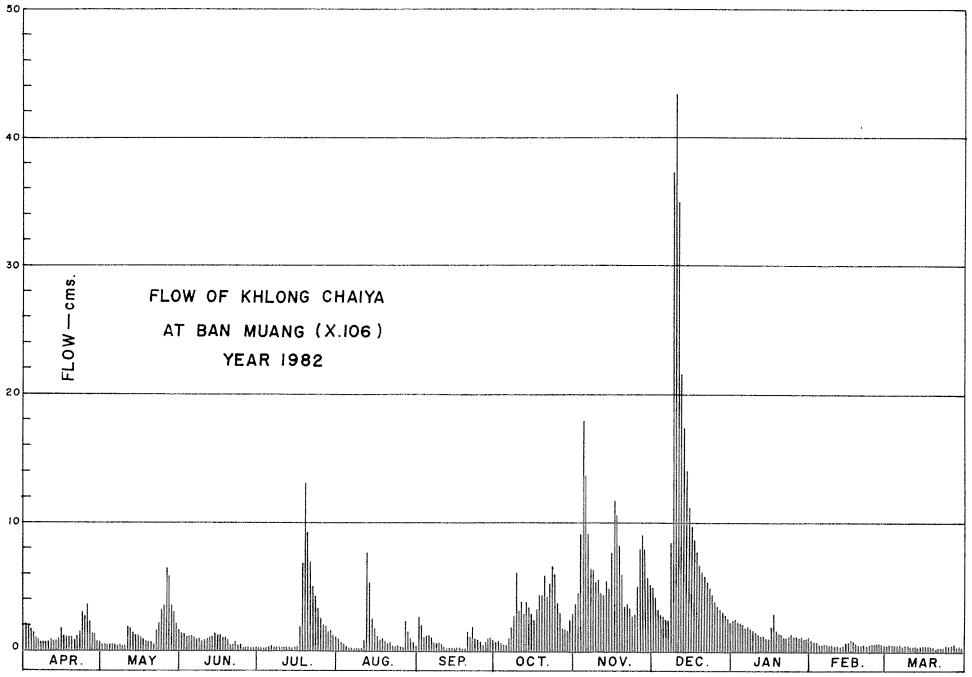
KHLONG CHAIYA AT BAN MUANG, SURAT THANI (X.106)

LOCATION	LAT. 9°-23'-46" N., LONG. 99°-10'-31" E., ON LEFT BANK AT BAN MUANG, AMPHOE CHAIYA, SURAT THANI.
DRAINAGE AREA	309 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 20 METERS FROM THE ABUTMENT.
ELEVATION	+3.505 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 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 43 DISCHARGE MEASUREMENT MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.17	0.40	0.11	0.29	0.63	0.29	0.77	0.91	0.61	0.24	0.17	
2	0.50	0.17	0.36	0.11	0.19	0.55	0.28	0.89	0.77	0.58	0.30	0.17	
3	0.45	0.17	0.34	0.14	0.16	0.39	0.23	1.44	0.71	0.56	0.24	0.16	
4	0.38	0.17	0.33	0.13	0.15	0.41	0.21	1.96	0.67	0.51	0.23	0.22	
5	0.33	0.17	0.32	0.12	0.15	0.39	0.28	1.50	0.63	0.48	0.22	0.20	
6	0.29	0.18	0.30	0.12	0.14	0.28	0.35	1.25	0.59	0.46	0.20	0.14	
7	0.25	0.17	0.29	0.12	0.14	0.29	0.59	1.06	0.57	0.48	0.17	0.13	
8	0.24	0.15	0.27	0.13	0.08	0.24	0.71	1.06	1.34	0.39	0.19	0.11	
9	0.23	0.15	0.25	0.13	0.04	0.25	1.00	0.97	2.99	0.38	0.19	0.11	
10	0.23	0.17	0.25	0.12	0.04	0.20	0.71	0.98	3.21	0.43	0.18	0.09	
11	0.25	0.49	0.35	0.12	0.38	0.17	0.78	0.87	2.82	0.40	0.16	0.09	
12	0.27	0.46	0.36	0.11	1.19	0.14	0.68	0.86	2.23	0.39	0.14	0.08	
13	0.29	0.36	0.35	0.11	0.82	0.12	0.79	0.97	1.87	0.39	0.24	0.12	
14	0.29	0.30	0.38	0.11	0.57	0.22	0.72	0.90	1.63	0.34	0.25	0.11	
15	0.28	0.32	0.38	0.11	0.46	0.11	0.63	1.24	1.50	0.31	0.25	0.09	
16	0.49	0.35	0.36	0.13	0.37	0.10	0.61	1.55	1.38	0.50	0.25	0.08	
17	0.37	0.30	0.32	0.40	0.31	0.09	0.67	1.37	1.28	0.67	0.25	0.08	
18	0.34	0.23	0.29	1.29	0.33	0.07	0.86	1.11	1.18	0.47	0.16	0.04	
19	0.30	0.22	0.21	1.62	0.30	0.11	0.85	0.98	1.10	0.41	0.14	0.07	
20	0.27	0.21	0.18	1.31	0.28	0.46	1.01	0.76	1.04	0.38	0.12	0.07	
21	0.34	0.14	0.16	1.10	0.20	0.39	0.84	0.79	0.99	0.35	0.18	0.07	
22	0.44	0.48	0.23	0.91	0.14	0.50	0.96	0.71	0.94	0.30	0.15	0.07	
23	0.67	0.53	0.15	0.83	0.20	0.33	1.11	0.68	0.90	0.41	0.16	0.07	
24	0.61	0.74	0.15	0.73	0.15	0.32	0.97	0.72	0.86	0.40	0.15	0.16	
25	0.76	0.74	0.18	0.63	0.12	0.22	0.80	1.15	0.76	0.39	0.15	0.15	
26	0.56	1.07	0.17	0.56	0.13	0.22	0.71	1.23	0.73	0.37	0.22	0.10	
27	0.45	0.98	0.14	0.49	0.59	0.34	0.49	1.31	0.73	0.37	0.19	0.05	
28	0.36	0.73	0.12	0.43	0.40	0.35	0.50	1.16	0.68	0.32	0.17	0.04	
29	0.24	0.63	0.12	0.40	0.30	0.36	0.47	1.00	0.64	0.33		0.04	
30	0.25	0.53	0.11	0.36	0.29	0.28	0.62	0.95	0.62	0.35		0.02	
31		0.45		0.33	0.27		0.72		0.59	0.25		0.02	
MEAN	0.38	0.38	0.26	0.43	0.30	0.28	0.66	1.07	1.19	0.42	0.20	0.10	
MAX	0.76	1.07	0.40	1.62	1.19	0.63	1.11	1.96	3.21	0.67	0.30	0.22	3.21
MIN	0.23	0.14	0.11	0.11	0.04	0.07	0.21	0.68	0.57	0.25	0.12	0.02	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.22 M (A.D), AT 12.00 HOURS, ON DEC 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 5.11 M (A.D)
RIGHT BANK ELEVATION 5.30 M (A.D), DRAINAGE AREA 309 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.34	0.34	1.20	0.22	0.76	2.61	0.76	3.66	4.89	2.47	0.56	0.34	
2	1.80	0.34	1.04	0.22	0.38	2.10	0.72	4.71	3.66	2.28	0.80	0.34	
3	1.50	0.34	0.96	0.28	0.32	1.16	0.52	10.52	3.18	2.16	0.56	0.32	
4	1.12	0.34	0.92	0.26	0.30	1.26	0.44	17.96	2.89	1.86	0.52	0.48	
5	0.92	0.34	0.88	0.24	0.30	1.16	0.72	11.30	2.61	1.68	0.48	0.40	
6	0.76	0.36	0.80	0.24	0.28	0.72	1.00	8.25	2.34	1.56	0.40	0.28	
7	0.60	0.34	0.76	0.24	0.28	0.76	2.34	6.30	2.22	1.68	0.34	0.26	
8	0.56	0.30	0.68	0.26	0.16	0.56	3.18	6.30	9.28	1.16	0.38	0.22	
9	0.52	0.30	0.60	0.26	0.08	0.60	5.70	5.43	38.07	1.12	0.38	0.22	
10	0.52	0.34	0.60	0.24	0.08	0.40	3.18	5.52	43.13	1.38	0.36	0.18	
11	0.60	1.74	1.00	0.24	1.12	0.34	3.74	4.53	34.24	1.20	0.32	0.18	
12	0.68	1.56	1.04	0.22	7.60	0.28	2.96	4.44	22.54	1.16	0.28	0.16	
13	0.76	1.04	1.00	0.22	4.08	0.24	3.82	5.43	16.55	1.16	0.56	0.24	
14	0.76	0.80	1.12	0.22	2.22	0.48	3.26	4.80	13.02	0.96	0.60	0.22	
15	0.72	0.88	1.12	0.22	1.56	0.22	2.61	8.14	11.30	0.84	0.60	0.18	
16	1.74	1.00	1.04	0.26	1.08	0.20	2.47	11.95	9.76	1.80	0.60	0.16	
17	1.08	0.80	0.88	1.20	0.84	0.18	2.89	9.64	8.58	2.89	0.60	0.16	
18	0.96	0.52	0.76	8.69	0.92	0.14	4.44	6.80	7.50	1.62	0.32	0.08	
19	0.80	0.48	0.44	12.88	0.80	0.22	4.35	5.52	6.70	1.26	0.28	0.14	
20	0.68	0.44	0.36	8.92	0.72	1.56	5.80	3.58	6.10	1.12	0.24	0.14	
21	0.96	0.28	0.32	6.70	0.40	1.16	4.26	3.82	5.61	1.00	0.36	0.14	
22	1.44	1.68	0.52	4.89	0.28	1.80	5.34	3.18	5.16	0.80	0.30	0.14	
23	2.89	1.98	0.30	4.17	0.40	0.92	6.80	2.96	4.80	1.26	0.32	0.14	
24	2.47	3.42	0.30	3.34	0.30	0.88	5.43	3.26	4.44	1.20	0.30	0.32	
25	3.58	3.42	0.36	2.61	0.24	0.48	3.90	7.20	3.58	1.16	0.30	0.30	
26	2.16	6.40	0.34	2.16	0.26	0.48	3.18	8.03	3.34	1.08	0.48	0.20	
27	1.50	5.52	0.28	1.74	2.34	0.96	1.74	8.92	3.34	1.08	0.38	0.10	
28	1.04	3.34	0.24	1.38	1.20	1.00	1.80	7.30	2.96	0.88	0.34	0.08	
29	0.56	2.61	0.24	1.20	0.80	1.04	1.62	5.70	2.68	0.92		0.08	
30	0.60	1.98	0.22	1.04	0.76	0.72	2.54	5.25	2.54	1.00		0.04	
31		1.50		0.92	0.68		3.26		2.34	0.60		0.04	
TOTAL	36.62	44.73	20.32	65.68	31.54	24.63	94.77	200.40	289.35	42.34	11.96	6.28	868.62 CMSDAY
MEAN	1.22	1.44	0.68	2.12	1.02	0.82	3.06	6.68	9.33	1.37	0.43	0.20	2.38 CMS
MAX	3.58	6.40	1.20	12.88	7.60	2.61	6.80	17.96	43.13	2.89	0.80	0.48	43.13 CMS
MIN	0.52	0.28	0.22	0.22	0.08	0.14	0.44	2.96	2.22	0.60	0.24	0.04	0.04 CMS
RUNOFF	3.164	3.865	1.756	5.675	2.725	2.128	8.188	17.315	25.000	3.658	1.033	0.543	75.049 MCM

MOMENTARY PEAK 43.36 CMS, AT 3.22 M (A.D), AT 12.00 HOURS, ON DEC 10, 1982

RUNOFF YIELD 7.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 140.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

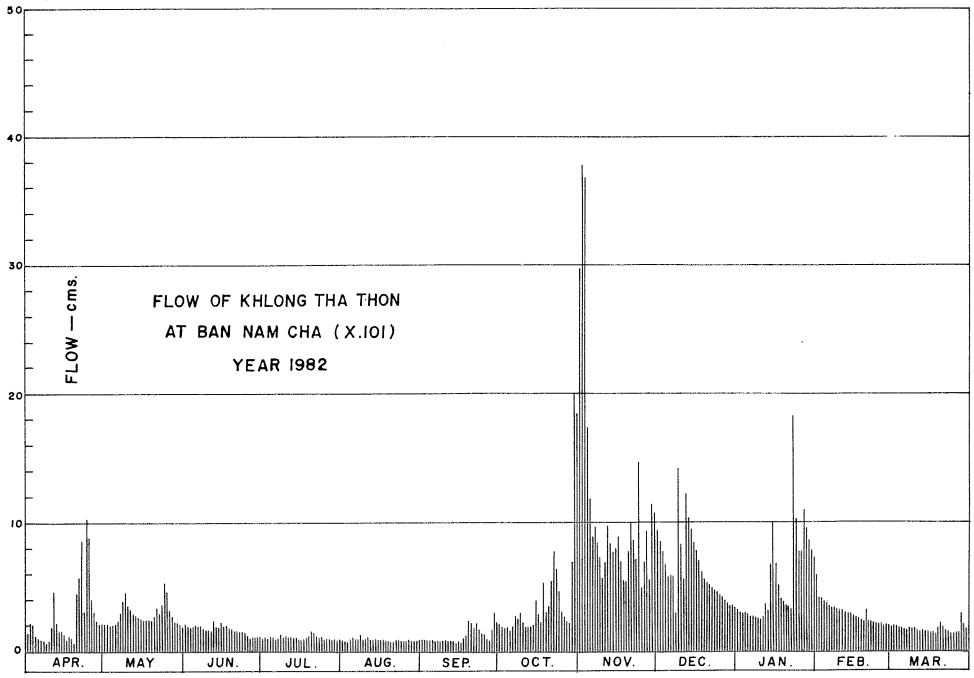
KHLONG THA THON AT BAN NAM CHA, NAKHON SI THAMMARAT (X.101)

LOCATION	LAT. 8°-52'-30" N., LONG. 99°-51'-40" E., ON RIGHT BANK AT BAN NAM CHA, AMPHOE SICHON, NAKHON SI THAMMARAT.
DRAINAGE AREA	95 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 11 METERS NORTH FROM THE STATION OFFICE.
ELEVATION	+8.666 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1976 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 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 93 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.70	0.71	0.60	0.56	0.54	0.73	1.86	1.14	0.80	0.91	0.69	
2	0.71	0.70	0.70	0.60	0.56	0.57	0.68	2.12	1.09	0.79	0.88	0.69	
3	0.73	0.70	0.69	0.60	0.56	0.56	0.65	2.09	1.10	0.90	0.86	0.68	
4	0.60	0.69	0.69	0.62	0.56	0.55	0.66	1.49	1.02	0.89	0.83	0.68	
5	0.57	0.71	0.71	0.60	0.61	0.55	0.66	1.27	0.96	0.82	0.83	0.68	
6	0.56	0.76	0.68	0.60	0.59	0.54	0.69	1.12	0.94	0.80	0.82	0.67	
7	0.55	0.82	0.67	0.62	0.59	0.54	0.78	1.16	0.97	0.79	0.81	0.67	
8	0.54	0.89	0.66	0.62	0.64	0.55	0.76	1.07	1.15	0.77	0.80	0.66	
9	0.54	0.90	0.66	0.62	0.59	0.54	0.80	1.03	2.28	0.76	0.79	0.66	
10	0.53	0.82	0.65	0.61	0.58	0.54	0.71	0.98	1.81	0.75	0.79	0.65	
11	0.90	0.79	0.67	0.61	0.60	0.54	0.68	1.11	1.42	0.75	0.78	0.65	
12	0.68	0.77	0.75	0.62	0.59	0.55	0.93	1.16	1.28	0.76	0.78	0.65	
13	0.66	0.76	0.69	0.60	0.58	0.54	0.70	1.08	1.18	0.84	0.78	0.65	
14	0.64	0.76	0.84	0.59	0.57	0.53	0.80	1.06	1.13	0.81	0.77	0.64	
15	0.62	0.76	0.73	0.59	0.56	0.53	0.86	1.08	1.10	1.14	0.76	0.64	
16	0.53	0.75	0.69	0.59	0.55	0.53	0.75	1.12	1.06	1.17	0.75	0.63	
17	0.62	0.74	0.70	0.60	0.55	0.62	0.72	1.00	1.02	1.00	0.75	0.63	
18	0.61	0.73	0.67	0.64	0.55	0.60	0.94	0.95	0.97	0.92	0.74	0.63	
19	0.54	0.73	0.67	0.62	0.54	0.74	0.82	0.95	0.95	0.87	0.73	0.68	
20	0.94	0.78	0.66	0.67	0.54	0.73	0.84	1.11	0.95	0.84	0.81	0.72	
21	0.96	0.84	0.65	0.65	0.55	0.68	0.99	1.18	0.93	0.83	0.73	0.66	
22	1.10	0.79	0.65	0.61	0.59	0.72	1.06	1.08	0.89	0.82	0.72	0.64	
23	0.80	0.84	0.65	0.60	0.56	0.66	1.04	1.03	0.87	1.50	0.71	0.63	
24	1.18	0.95	0.63	0.60	0.55	0.63	0.91	1.39	0.87	1.22	0.70	0.63	
25	1.17	0.91	0.63	0.59	0.57	0.61	0.79	1.46	0.85	1.06	0.70	0.63	
26	0.85	0.78	0.62	0.59	0.56	0.58	0.75	1.66	0.83	1.07	0.70	0.63	
27	0.77	0.72	0.62	0.58	0.58	0.60	0.73	1.92	0.83	1.23	0.70	0.65	
28	0.72	0.72	0.61	0.58	0.55	0.67	0.73	1.54	0.84	1.15	0.69	0.78	
29	0.71	0.71	0.61	0.57	0.57	0.81	0.98	1.23	0.83	1.11		0.69	
30	0.71	0.71	0.61	0.57	0.57	0.71	1.57	1.21	0.82	1.07		0.66	
31		0.70		0.56	0.56		1.51		0.81	1.03		0.65	
MEAN	0.72	0.77	0.67	0.60	0.57	0.60	0.85	1.28	1.06	0.94	0.77	0.66	
MAX	1.18	0.95	0.84	0.67	0.64	0.81	1.57	2.12	2.28	1.50	0.91	0.78	2.28
MIN	0.53	0.69	0.61	0.56	0.54	0.53	0.65	0.95	0.81	0.75	0.69	0.63	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.50 M (A.D), AT 21.00 HOURS, ON DEC 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.15 M (A.D)
LEFT BANK ELEVATION 7.04 M (A.D)
RIGHT BANK ELEVATION 9.07 M (A.D), DRAINAGE AREA 95 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	2.00	2.10	1.00	0.80	0.70	2.30	28.80	9.30	3.00	4.70	1.90	
2	2.10	2.00	2.00	1.00	0.80	0.85	1.80	37.70	8.30	2.90	4.20	1.90	
3	2.30	2.00	1.90	1.00	0.80	0.80	1.50	36.65	8.50	4.50	3.90	1.80	
4	1.00	1.90	1.90	1.20	0.80	0.75	1.60	17.70	6.90	4.35	3.45	1.80	
5	0.85	2.10	2.10	1.00	1.10	0.75	1.60	11.90	5.70	3.30	3.45	1.80	
6	0.80	2.60	1.80	1.00	0.95	0.70	1.90	8.90	5.30	3.00	3.30	1.70	
7	0.75	3.30	1.70	1.20	0.95	0.70	2.80	9.70	5.90	2.90	3.15	1.70	
8	0.70	4.35	1.60	1.20	1.40	0.75	2.60	7.90	2.95	2.70	3.00	1.60	
9	0.70	4.50	1.60	1.20	0.95	0.70	3.00	7.10	14.20	2.60	2.90	1.60	
10	0.65	3.30	1.50	1.10	0.90	0.70	2.10	6.10	8.30	2.50	2.90	1.50	
11	4.50	2.90	1.70	1.10	1.00	0.70	1.80	8.70	4.66	2.50	2.80	1.50	
12	1.80	2.70	2.50	1.20	0.95	0.75	5.10	9.70	12.10	2.60	2.80	1.50	
13	1.60	2.60	1.90	1.00	0.90	0.70	2.00	8.10	10.10	3.60	2.80	1.50	
14	1.40	2.60	3.60	0.95	0.85	0.65	3.00	7.70	9.10	3.15	2.70	1.40	
15	1.20	2.60	2.30	0.95	0.80	0.65	3.90	8.10	8.50	9.30	2.60	1.40	
16	0.65	2.50	1.90	0.95	0.75	0.65	2.50	8.90	7.70	9.90	2.50	1.30	
17	1.20	2.40	2.00	1.00	0.75	1.20	2.20	6.50	6.90	6.50	2.50	1.30	
18	1.10	2.30	1.70	1.40	0.75	1.00	5.30	5.50	5.90	4.90	2.40	1.30	
19	0.70	2.30	1.70	1.20	0.70	2.40	3.30	5.50	5.50	4.05	2.30	1.80	
20	5.30	2.80	1.60	1.70	0.70	2.30	3.60	8.70	5.50	3.60	3.15	2.20	
21	5.70	3.60	1.50	1.50	0.75	1.80	6.30	10.10	5.10	3.45	2.30	1.60	
22	8.50	2.90	1.50	1.10	0.95	2.20	7.70	8.10	4.35	3.30	2.20	1.40	
23	3.00	3.60	1.50	1.00	0.80	1.60	7.30	7.10	4.05	18.00	2.10	1.30	
24	10.10	5.50	1.30	1.00	0.75	1.30	4.70	14.75	4.05	10.90	2.00	1.30	
25	9.90	4.70	1.30	0.95	0.85	1.10	2.90	4.98	3.75	7.70	2.00	1.30	
26	3.75	2.80	1.20	0.95	0.80	0.90	2.50	6.80	3.45	7.90	2.00	1.30	
27	2.70	2.20	1.20	0.90	0.90	1.00	2.30	9.40	3.45	11.10	2.00	1.50	
28	2.20	2.20	1.10	0.90	0.75	1.70	2.30	5.66	3.60	9.50	1.90	2.80	
29	2.10	2.10	1.10	0.85	0.85	3.15	6.10	11.10	3.45	8.70		1.90	
30	2.10	2.10	1.10	0.85	0.85	2.10	20.10	10.70	3.30	7.90		1.60	
31		2.00		0.80	0.80		18.30		3.15	7.10		1.50	
TOTAL	80.55	87.45	51.90	33.15	26.65	35.25	134.40	338.54	193.01	177.40	78.00	50.00	1286.30 CMSDAY
MEAN	2.68	2.82	1.73	1.07	0.86	1.17	4.34	11.28	6.23	5.72	2.79	1.61	3.52 CMS
MAX	10.10	5.50	3.60	1.70	1.40	3.15	20.10	37.70	14.20	18.00	4.70	2.80	37.70 CMS
MIN	0.65	1.90	1.10	0.80	0.70	0.65	1.50	4.98	2.95	2.50	1.90	1.30	0.65 CMS
RUNOFF	6.960	7.556	4.484	2.864	2.303	3.046	11.612	29.250	16.676	15.327	6.739	4.320	111.136 MCM

MOMENTARY PEAK 44.50 CMS, AT 3.50 M (A.D), AT 21.00 HOURS, ON DEC 9, 1982
RUNOFF YIELD 37.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 468.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

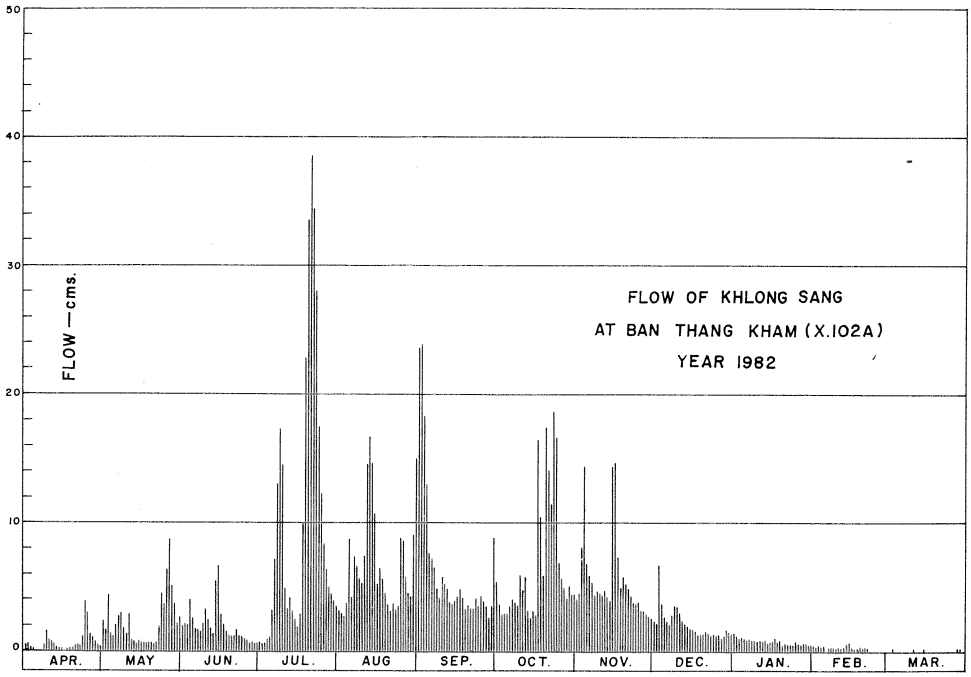
KHLONG SANG AT BAN THANG KHAM, NAKHON SI THAMMARAT (X.102A)

LOCATION	LAT. 8°-17'-57" N., LONG. 99°-23'-00" E., ON RIGHT BANK AT BAN THANG KHAM, TAMBON THA YANG, AMPHOE THUNG YAI, NAKHON SI THAMMARAT.
DRAINAGE AREA	152 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+23.100 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 2.70 METERS FROM THE OBSERVER'S HOUSE.
ELEVATION	+28.385 M.(M.S.L.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1977 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1977 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1977 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 60 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.26	24.65	24.51	24.18	24.78	27.51	25.15	25.03	24.61	24.33	24.12	24.00	
2	24.13	24.44	24.79	24.16	24.75	27.54	24.89	25.22	24.58	24.29	24.12	23.98	
3	24.06	25.04	24.80	24.16	24.72	26.99	24.75	25.93	25.52	24.26	24.11	24.06	
4	24.03	24.32	25.04	24.28	25.07	26.14	24.76	26.58	24.93	24.26	24.11	24.00	
5	24.00	24.16	24.60	24.31	25.87	25.70	24.76	25.57	24.65	24.25	24.10	23.94	
6	23.99	24.66	24.43	24.96	25.02	25.61	24.87	25.33	24.61	24.25	24.10	23.98	
7	24.00	24.69	24.45	25.96	25.62	25.48	25.02	25.24	24.56	24.22	24.09	23.97	
8	24.04	24.73	24.44	26.67	25.47	25.21	24.75	25.07	24.75	24.22	24.07	23.96	
9	24.45	24.40	25.31	26.89	25.30	25.05	24.64	25.13	24.89	24.20	24.07	23.95	
10	24.23	24.25	24.86	26.60	25.23	25.31	25.40	25.11	24.91	24.20	24.07	23.96	
11	24.18	24.73	24.73	25.05	26.01	25.20	25.15	25.08	24.71	24.26	24.07	24.03	
12	24.09	24.23	24.50	24.87	26.78	25.14	25.34	25.17	24.61	24.20	24.07	23.96	
13	24.05	24.14	24.36	25.03	26.84	24.92	24.82	24.99	24.53	24.19	24.08	23.96	
14	24.02	24.13	25.45	24.73	26.56	24.92	24.66	24.96	24.50	24.19	24.20	24.00	
15	24.01	24.18	25.51	24.59	26.10	24.95	24.80	26.59	24.45	24.28	24.20	24.01	
16	24.00	24.19	24.73	24.54	25.24	25.08	24.72	26.62	24.45	24.30	23.98	23.98	
17	24.03	24.14	24.55	24.84	25.63	25.17	26.82	25.66	24.44	24.23	24.04	23.96	
18	24.06	24.20	24.41	26.69	25.30	25.04	26.11	25.18	24.42	24.23	24.08	23.95	
19	24.00	24.10	24.32	27.61	25.02	24.82	25.22	25.15	24.40	24.10	24.08	23.99	
20	24.10	24.17	24.31	28.34	24.85	24.94	25.11	25.31	24.40	24.35	24.04	23.91	
21	24.16	24.16	24.30	28.71	24.78	24.85	26.93	25.15	24.39	24.17	24.03	23.96	
22	24.10	24.22	24.44	28.50	24.93	24.87	26.23	25.04	24.37	24.15	24.03	23.95	
23	24.28	24.68	24.32	27.90	24.83	25.02	27.02	24.93	24.35	24.15	24.00	24.00	
24	24.95	25.11	24.26	26.91	24.84	24.87	26.80	24.91	24.35	24.19	24.00	24.00	
25	24.51	25.46	24.24	26.04	25.87	25.05	25.50	24.92	24.34	24.19	24.00	24.00	
26	24.32	25.48	24.21	25.73	25.83	24.94	25.27	24.80	24.32	24.17	24.00	24.00	
27	24.29	25.85	24.19	25.40	25.43	24.77	25.08	24.24	24.31	24.16	24.00	23.98	
28	24.14	25.12	24.17	25.19	25.10	24.67	24.99	24.71	24.50	24.15	24.00	24.07	
29	24.11	24.84	24.16	25.04	25.06	24.90	25.25	24.68	24.45	24.14		24.07	
30	24.08	24.55	24.21	24.97	26.09	26.03	25.07	24.65	24.36	24.13		24.03	
31		24.66		24.87	26.67		25.09		24.34	24.13		24.00	
MEAN	24.16	24.57	24.55	25.73	25.47	25.36	25.32	25.23	24.55	24.21	24.07	23.99	
MAX	24.95	25.85	25.51	28.71	26.84	27.54	27.02	26.62	25.52	24.35	24.20	24.07	28.71
MIN	23.99	24.10	24.16	24.16	24.72	24.67	24.64	24.24	24.31	24.10	23.98	23.91	23.91

ANNUAL MAX MOMENTARY GAGE HEIGHT 28.73 M (MSL), AT 18.00 HOURS, ON JUL 21, 1982
ZERO GAGE AT BOTTOM ELEVATION 23.10 M (MSL), RIVER BED 23.62 M (MSL)
LEFT BANK ELEVATION 28.95 M (MSL)
RIGHT BANK ELEVATION 28.84 M (MSL), DRAINAGE AREA 152 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	2.47	1.85	0.63	3.06	23.62	4.75	4.19	2.30	1.17	0.49	0.22	
2	0.51	1.58	3.11	0.58	2.92	23.98	3.55	5.10	2.16	1.02	0.49	0.18	
3	0.35	4.23	3.15	0.58	2.79	18.20	2.92	9.11	6.61	0.90	0.46	0.35	
4	0.29	1.13	4.23	0.98	4.36	10.61	2.97	14.22	3.74	0.90	0.46	0.22	
5	0.22	0.58	2.25	1.09	8.71	7.65	2.97	6.88	2.47	0.87	0.44	0.09	
6	0.20	2.52	1.54	3.87	4.14	7.11	3.47	5.65	2.30	0.87	0.44	0.18	
7	0.22	2.66	1.61	9.32	7.17	6.40	4.14	5.20	2.07	0.75	0.42	0.15	
8	0.31	2.83	1.58	15.07	6.35	5.05	2.92	4.36	2.92	0.75	0.37	0.13	
9	1.61	1.43	5.55	17.20	5.50	4.27	2.43	4.65	3.55	0.68	0.37	0.11	
10	0.79	0.87	3.42	14.40	5.15	5.55	6.00	4.55	3.64	0.68	0.37	0.13	
11	0.63	2.83	2.83	4.27	9.67	5.00	4.75	4.41	2.74	0.90	0.37	0.29	
12	0.42	0.79	1.80	3.47	16.11	4.70	5.70	4.85	2.30	0.68	0.37	0.13	
13	0.33	0.54	1.28	4.19	16.70	3.69	3.24	4.00	1.94	0.66	0.40	0.13	
14	0.26	0.51	6.25	2.83	14.04	3.69	2.52	3.87	1.80	0.66	0.68	0.22	
15	0.24	0.63	6.56	2.21	10.30	3.83	3.15	14.31	1.61	0.98	0.68	0.24	
16	0.22	0.66	2.83	1.98	5.20	4.41	2.79	14.59	1.61	1.05	0.18	0.18	
17	0.29	0.54	2.02	3.33	7.23	4.85	16.50	7.41	1.58	0.79	0.31	0.13	
18	0.35	0.68	1.46	15.26	5.50	4.23	10.38	4.90	1.50	0.79	0.40	0.11	
19	0.22	0.44	1.13	24.82	4.14	3.24	5.10	4.75	1.43	0.44	0.40	0.20	
20	0.44	0.61	1.09	33.72	3.38	3.78	4.55	5.55	1.43	1.24	0.31	0.02	
21	0.58	0.58	1.05	38.37	3.06	3.38	17.60	4.75	1.39	0.61	0.29	0.13	
22	0.44	0.75	1.58	35.73	3.74	3.47	11.30	4.23	1.31	0.56	0.29	0.11	
23	0.98	2.61	1.13	28.30	3.28	4.14	18.50	3.74	1.24	0.56	0.22	0.22	
24	3.83	4.55	0.90	17.40	3.33	3.47	16.30	3.64	1.24	0.66	0.22	0.22	
25	1.85	6.30	0.83	9.88	8.71	4.27	6.50	3.69	1.20	0.66	0.22	0.22	
26	1.13	6.40	0.72	7.83	8.45	3.78	5.35	3.15	1.13	0.61	0.22	0.22	
27	1.02	8.58	0.66	6.00	6.15	3.02	4.41	0.83	1.09	0.58	0.22	0.18	
28	0.54	4.60	0.61	4.95	4.50	2.56	4.00	2.74	1.80	0.56	0.22	0.37	
29	0.46	3.33	0.58	4.23	4.32	3.60	5.25	2.61	1.61	0.54		0.37	
30	0.40	2.02	0.72	3.91	10.23	9.81	4.36	2.47	1.28	0.51		0.29	
31		2.52		3.47	15.07		4.45		1.20	0.51		0.22	
TOTAL	20.03	70.77	64.32	319.87	213.26	195.36	192.82	164.40	64.19	23.14	10.31	5.96	1344.43 CMSDAY
MEAN	0.67	2.28	2.14	10.32	6.88	6.51	6.22	5.48	2.07	0.75	0.37	0.19	3.68 CMS
MAX	3.83	8.58	6.56	38.37	16.70	23.98	18.50	14.59	6.61	1.24	0.68	0.37	38.37 CMS
MIN	0.20	0.44	0.58	0.58	2.79	2.56	2.43	0.83	1.09	0.44	0.18	0.02	0.02 CMS
RUNOFF	1.731	6.115	5.557	27.637	18.426	16.879	16.660	14.204	5.546	1.999	0.891	0.515	116.159 MCM

MOMENTARY PEAK 38.62 CMS, AT 28.73 M (MSL), AT 18.00 HOURS, ON JUL 21, 1982

RUNOFF YIELD 24.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 254.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

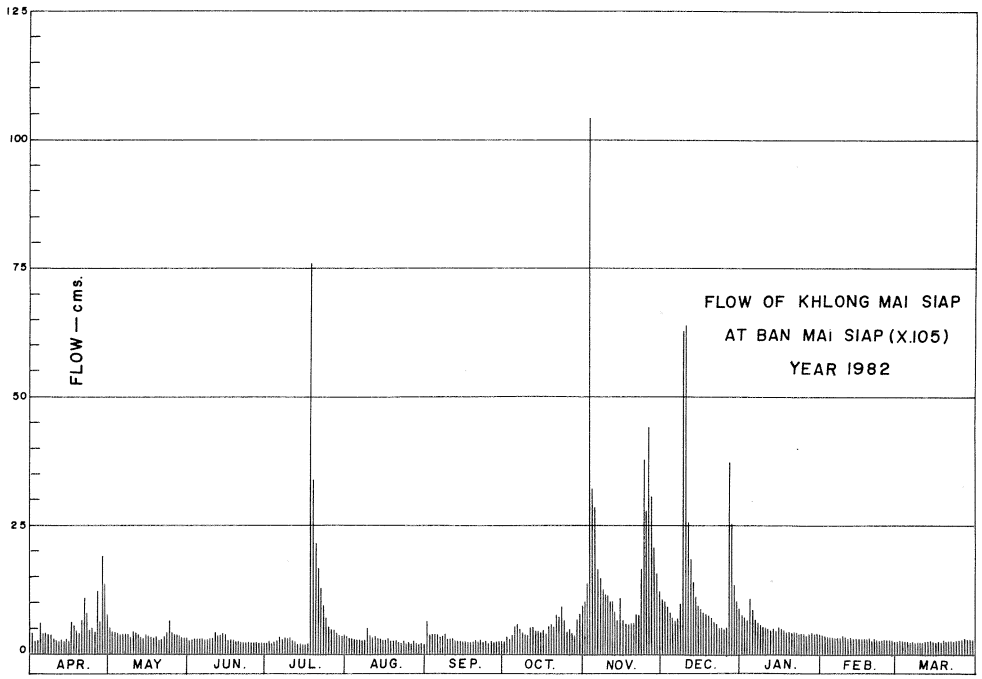
KHLONG MAI SIAP AT BAN MAI SIAP, NAKHON SI THAMMARAT (X.105)

LOCATION	LAT. 7°-51'-01" N., LONG. 99°-55'-53" E., ON LEFT BANK AT THE BRIDGE OF NAKHON SI THAMMARAT-PHATTHALUNG HIGHWAY, AT BAN MAI SIAP, AMPHOE CHA-UAT, NAKHON SI THAMMARAT.
DRAINAGE AREA	155 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 10 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+7.705 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 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 66 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	1.09	0.89	0.79	0.92	1.20	0.86	1.94	1.52	1.29	0.93	0.84	
2	0.91	1.02	0.88	0.79	0.91	1.02	0.97	2.15	1.41	1.22	0.92	0.84	
3	0.85	0.99	0.88	0.79	0.89	0.95	0.93	4.32	1.33	1.24	0.91	0.83	
4	1.15	0.94	0.88	0.79	0.87	0.91	0.92	2.39	1.27	1.50	0.91	0.83	
5	1.01	0.94	0.90	0.84	0.89	0.99	1.16	2.33	1.21	1.31	0.91	0.83	
6	1.02	0.96	0.88	0.86	0.88	0.93	1.19	1.81	1.18	1.24	0.90	0.83	
7	0.95	0.95	0.87	0.93	0.87	0.93	1.08	1.74	1.20	1.19	0.90	0.83	
8	0.92	0.94	0.89	0.92	0.86	0.99	0.99	1.60	1.54	1.14	0.90	0.83	
9	0.87	0.94	0.88	0.96	1.15	0.92	0.95	1.54	3.38	1.11	0.89	0.83	
10	0.85	1.08	0.95	0.91	0.93	0.92	1.84	1.55	3.41	1.08	0.89	0.82	
11	0.86	0.99	1.01	0.86	0.95	0.88	1.18	1.46	2.20	1.07	0.89	0.82	
12	0.85	0.96	0.94	0.85	0.96	0.86	1.09	1.45	1.80	1.06	0.88	0.82	
13	0.85	0.92	0.95	0.83	0.93	0.85	1.01	1.33	1.60	1.04	0.88	0.82	
14	0.88	0.95	1.00	0.82	0.90	0.85	1.05	1.25	1.53	1.04	0.88	0.82	
15	0.87	0.96	0.94	0.81	0.88	0.86	1.04	1.52	1.39	1.12	0.88	0.81	
16	1.15	0.92	0.90	0.80	0.86	0.85	1.02	1.28	1.39	1.05	0.88	0.81	
17	1.06	0.92	0.91	0.82	0.87	0.84	1.07	1.20	1.30	1.02	0.85	0.81	
18	1.00	0.91	0.89	3.69	0.86	0.86	1.18	1.15	1.25	1.00	0.87	0.83	
19	1.06	0.90	0.86	2.09	0.85	0.85	1.14	1.16	1.22	1.00	0.87	0.85	
20	1.34	0.87	0.84	2.00	0.83	0.92	1.12	1.16	1.18	0.99	0.87	0.84	
21	1.47	0.88	0.84	2.57	0.82	0.87	1.30	1.33	1.16	0.98	0.86	0.86	
22	1.13	0.93	0.81	1.66	0.82	0.85	1.26	1.31	1.13	0.97	0.86	0.84	
23	1.04	1.03	0.83	1.40	0.82	0.84	1.41	1.54	1.11	0.97	0.86	0.83	
24	1.09	1.19	0.82	1.25	0.82	0.83	1.15	2.66	1.11	0.99	0.86	0.87	
25	0.99	1.03	0.82	1.15	0.81	0.83	1.05	2.29	1.10	0.99	0.86	0.85	
26	1.56	0.98	0.82	1.08	0.84	0.94	1.05	2.84	1.07	0.96	0.85	0.85	
27	1.20	0.96	0.81	1.03	0.84	0.87	1.02	2.38	1.14	0.96	0.85	0.86	
28	1.90	0.93	0.81	1.00	0.82	0.84	0.97	1.88	2.62	0.96	0.84	0.90	
29	1.50	0.92	0.81	0.97	0.81	0.83	1.29	1.63	1.98	0.95		0.91	
30	1.21	0.91	0.80	0.96	0.81	0.84	1.21	1.55	1.53	0.94		0.86	
31		0.90		0.93	0.80		1.90		1.38	0.93		0.84	
MEAN	1.08	0.96	0.88	1.17	0.87	0.90	1.14	1.79	1.54	1.07	0.88	0.84	
MAX	1.90	1.19	1.01	3.69	1.15	1.20	1.90	4.32	3.41	1.50	0.93	0.91	4.32
MIN	0.85	0.87	0.80	0.79	0.80	0.83	0.86	1.15	1.07	0.93	0.84	0.81	0.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.40 M (A.D), AT 22.00 HOURS, ON DEC 9, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.51 M (A.D)
LEFT BANK ELEVATION 10.08 M (A.D)
RIGHT BANK ELEVATION 11.32 M (A.D), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.90	2.45	1.45	0.95	1.60	3.20	1.30	20.00	9.80	3.92	1.65	1.20	
2	1.55	2.10	1.40	0.95	1.55	2.10	1.85	25.25	6.30	3.36	1.60	1.20	
3	1.25	1.95	1.40	0.95	1.45	1.75	1.65	104.50	4.60	3.52	1.55	1.15	
4	2.85	1.70	1.40	0.95	1.35	1.55	1.60	31.25	3.76	9.00	1.55	1.15	
5	2.05	1.70	1.50	1.20	1.45	1.95	2.92	29.75	3.28	4.20	1.55	1.15	
6	2.10	1.80	1.40	1.30	1.40	1.65	3.13	17.20	3.06	3.52	1.50	1.15	
7	1.75	1.75	1.35	1.65	1.35	1.65	2.40	15.80	3.20	3.13	1.50	1.15	
8	1.60	1.70	1.45	1.60	1.30	1.95	1.95	13.00	10.60	2.78	1.50	1.15	
9	1.35	1.70	1.40	1.80	2.85	1.60	1.75	10.60	63.30	2.57	1.45	1.15	
10	1.25	2.40	1.75	1.55	1.65	1.60	17.80	11.00	64.40	2.40	1.45	1.10	
11	1.30	1.95	2.05	1.30	1.75	1.40	3.06	7.80	26.50	2.35	1.45	1.10	
12	1.25	1.80	1.70	1.25	1.80	1.30	2.45	7.50	17.00	2.30	1.40	1.10	
13	1.25	1.60	1.75	1.15	1.65	1.25	2.05	4.60	13.00	2.20	1.40	1.10	
14	1.40	1.75	2.00	1.10	1.50	1.25	2.25	3.60	10.20	2.20	1.40	1.10	
15	1.35	1.80	1.70	1.05	1.40	1.30	2.20	9.80	5.80	2.64	1.40	1.05	
16	2.85	1.60	1.50	1.00	1.30	1.25	2.10	3.84	5.80	2.25	1.40	1.05	
17	2.30	1.60	1.55	1.10	1.35	1.20	2.35	3.20	4.00	2.10	1.25	1.05	
18	2.00	1.55	1.45	75.60	1.30	1.30	3.06	2.85	3.60	2.00	1.35	1.15	
19	2.30	1.50	1.30	23.75	1.25	1.25	2.78	2.92	3.36	2.00	1.35	1.25	
20	4.80	1.35	1.20	21.50	1.15	1.60	2.64	2.92	3.06	1.95	1.35	1.20	
21	8.10	1.40	1.20	36.10	1.10	1.35	4.00	4.60	2.92	1.90	1.30	1.30	
22	2.71	1.65	1.05	14.20	1.10	1.25	3.68	4.20	2.71	1.85	1.30	1.20	
23	2.20	2.15	1.15	6.00	1.10	1.20	6.30	10.60	2.57	1.85	1.30	1.15	
24	2.45	3.13	1.10	3.60	1.10	1.15	2.85	38.80	2.57	1.95	1.30	1.35	
25	1.95	2.15	1.10	2.85	1.05	1.15	2.25	28.75	2.50	1.95	1.30	1.25	
26	11.40	1.90	1.10	2.40	1.20	1.70	2.25	44.40	2.35	1.80	1.25	1.25	
27	3.20	1.80	1.05	2.15	1.20	1.35	2.10	31.00	2.78	1.80	1.25	1.30	
28	19.00	1.65	1.05	2.00	1.10	1.20	1.85	18.60	37.60	1.80	1.20	1.50	
29	9.00	1.60	1.05	1.85	1.05	1.15	3.92	13.60	21.00	1.75		1.55	
30	3.28	1.55	1.00	1.80	1.05	1.20	3.28	11.00	10.20	1.70		1.30	
31		1.50		1.65	1.00		19.00		5.60	1.65		1.20	
TOTAL	101.74	56.23	41.55	216.30	42.45	44.80	112.77	532.93	357.42	80.39	39.25	37.05	1662.88 CMSDAY
MEAN	3.39	1.81	1.38	6.98	1.37	1.49	3.64	17.76	11.53	2.59	1.40	1.20	4.56 CMS
MAX	19.00	3.13	2.05	75.60	2.85	3.20	19.00	104.50	64.40	9.00	1.65	1.55	104.50 CMS
MIN	1.25	1.35	1.00	0.95	1.00	1.15	1.30	2.85	2.35	1.65	1.20	1.05	0.95 CMS
RUNOFF	8.790	4.858	3.590	18.688	3.668	3.871	9.743	46.045	30.881	6.946	3.391	3.201	143.673 MCM

MOMENTARY PEAK 166.00 CMS, AT 5.40 M (A.D), AT 22.00 HOURS, ON DEC 9, 1982

RUNOFF YIELD 29.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1070.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

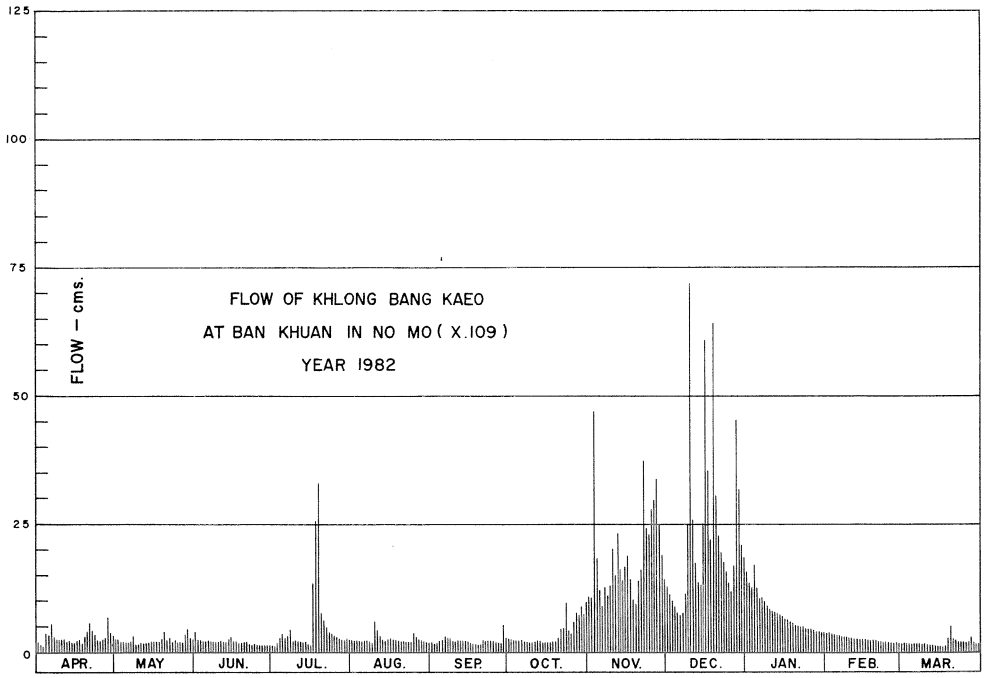
KHLONG BANG KAEO AT BAN KHUAN IN NO MO, PHATTHALUNG (X.109)

LOCATION	LAT. 7°-20'-36" N., LONG. 100°-03'-33" E., ON LEFT BANK AT BAN KHUAN IN NOMO, AMPHOE KHAO CHAI SON, PHATTHALUNG.
DRAINAGE AREA	133 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE HEALTH OFFICE.
ELEVATION	+8.495 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 145 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	0.94	1.07	0.79	0.94	0.88	0.99	1.60	1.54	1.66	0.97	0.80	
2	0.84	0.90	0.92	0.80	0.92	0.89	0.97	1.60	1.45	1.58	0.96	0.79	
3	0.82	0.88	0.89	0.91	0.91	0.95	0.96	3.19	1.37	1.56	0.95	0.79	
4	1.12	0.87	0.88	1.00	0.90	0.92	0.94	2.16	1.33	1.73	0.94	0.79	
5	1.08	0.90	0.87	1.03	0.89	0.95	0.93	1.69	1.28	1.54	0.93	0.78	
6	1.32	0.88	0.91	0.95	0.89	1.00	0.99	1.52	1.25	1.47	0.92	0.78	
7	0.99	0.88	0.88	0.91	0.88	0.99	0.93	1.75	1.27	1.44	0.91	0.78	
8	0.94	1.03	0.86	1.13	0.88	0.98	0.91	1.67	1.51	1.38	0.91	0.78	
9	0.89	0.84	0.85	0.95	0.88	0.96	0.91	1.56	2.07	1.33	0.90	0.78	
10	0.92	0.89	0.85	0.89	1.31	0.96	0.96	1.84	3.67	1.29	0.89	0.77	
11	0.94	0.87	0.85	0.89	1.10	0.95	0.95	1.62	2.09	1.27	0.88	0.77	
12	0.90	0.86	0.84	0.86	1.04	0.94	0.94	1.97	1.76	1.24	0.88	0.77	
13	0.88	0.85	0.89	0.85	0.97	0.93	0.91	1.74	1.59	1.23	0.87	0.77	
14	0.86	0.84	0.88	0.83	0.93	0.92	0.91	1.59	1.54	1.23	0.87	0.75	
15	0.91	0.85	0.99	0.83	0.91	0.88	0.89	1.71	2.22	1.19	0.87	0.75	
16	0.91	0.84	0.94	0.83	1.00	0.85	0.88	1.80	3.29	1.17	0.86	0.75	
17	0.95	0.87	0.90	2.10	0.94	0.84	0.89	1.47	2.45	1.15	0.85	0.75	
18	0.89	0.86	0.87	2.71	0.91	0.83	0.88	1.39	1.93	1.13	0.84	0.78	
19	0.91	0.90	0.85	2.18	0.89	0.83	0.96	1.35	3.38	1.11	0.84	0.95	
20	1.17	1.09	0.85	1.53	0.87	0.86	1.06	1.58	2.33	1.09	0.84	1.08	
21	1.31	0.94	0.83	1.35	0.86	0.89	1.14	1.72	1.98	1.07	0.83	0.89	
22	1.09	0.99	0.83	1.20	0.87	0.87	1.17	2.49	1.82	1.05	0.83	0.85	
23	1.00	0.94	0.83	1.14	0.86	0.85	1.59	2.01	1.78	1.05	0.82	0.81	
24	0.95	0.90	0.82	1.07	0.86	0.83	1.19	2.34	1.69	1.05	0.82	0.79	
25	0.91	0.87	0.82	1.05	1.09	0.88	1.07	2.15	1.59	1.03	0.81	0.77	
26	0.93	0.88	0.81	1.02	0.99	0.85	2.15	2.26	1.52	1.07	0.81	0.77	
27	1.00	0.86	0.81	0.99	0.93	0.83	1.43	2.39	1.73	1.03	0.82	0.79	
28	1.36	1.04	0.80	0.97	0.89	0.82	1.40	2.02	2.78	1.03	0.81	0.90	
29	1.04	1.16	0.80	0.96	0.89	1.24	1.50	1.78	2.38	1.01		0.80	
30	0.98	1.06	0.80	0.95	0.87	0.99	1.42	1.64	1.88	0.79		0.77	
31		0.94		0.95	0.90		1.57		1.78	0.98		0.76	
MEAN	0.99	0.92	0.87	1.12	0.93	0.91	1.11	1.85	1.94	1.22	0.87	0.80	
MAX	1.36	1.16	1.07	2.71	1.31	1.24	2.15	3.19	3.67	1.73	0.97	1.08	3.67
MIN	0.82	0.84	0.80	0.79	0.86	0.82	0.88	1.35	1.25	0.79	0.81	0.75	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.27 M (A.D), AT 6.00 HOURS, ON DEC 10, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.40 M (A.D)
LEFT BANK ELEVATION 8.24 M (A.D)
RIGHT BANK ELEVATION 8.24 M (A.D), DRAINAGE AREA 133 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.04	2.52	3.70	1.33	2.52	2.04	2.92	10.50	13.40	16.23	3.70	2.00	
2	1.72	2.20	2.36	1.40	2.36	2.12	2.76	10.50	11.50	14.30	3.60	1.90	
3	1.56	2.04	2.12	2.28	2.28	2.60	2.68	47.20	9.90	13.85	3.50	1.90	
4	4.20	1.96	2.04	3.00	2.20	2.36	2.52	20.20	9.10	17.96	3.40	1.90	
5	3.80	2.20	1.96	3.30	2.12	2.60	2.44	11.85	8.20	13.40	3.30	1.80	
6	6.30	2.04	2.28	2.60	2.12	3.00	2.92	9.30	7.75	11.90	3.20	1.80	
7	2.92	2.04	2.04	2.28	2.04	2.92	2.44	12.75	8.05	11.30	3.10	1.80	
8	2.52	3.30	1.88	4.30	2.04	2.84	2.28	11.55	12.72	10.10	3.10	1.80	
9	2.12	1.72	1.80	2.60	2.04	2.68	2.28	13.85	26.35	9.10	3.00	1.80	
10	2.36	2.12	1.80	2.12	6.15	2.68	2.68	20.67	72.60	8.35	2.90	1.70	
11	2.52	1.96	1.80	2.12	4.00	2.60	2.60	15.24	26.85	8.05	2.80	1.70	
12	2.20	1.88	1.72	1.88	3.40	2.52	2.52	23.88	18.70	7.60	2.80	1.70	
13	2.04	1.80	2.12	1.80	2.76	2.44	2.28	18.21	14.53	7.45	2.70	1.70	
14	1.88	1.72	2.04	1.64	2.44	2.36	2.28	14.53	13.40	7.45	2.70	1.50	
15	2.28	1.80	2.92	1.64	2.28	2.04	2.12	17.47	30.06	6.85	2.70	1.50	
16	2.28	1.72	2.52	1.64	3.00	1.80	2.04	19.69	61.20	6.55	2.60	1.50	
17	2.60	1.96	2.20	19.00	2.52	1.72	2.12	11.90	36.00	6.25	2.50	1.50	
18	2.12	1.88	1.96	33.25	2.28	1.64	2.04	10.30	22.90	5.95	2.40	1.80	
19	2.28	2.20	1.80	20.60	2.12	1.64	2.68	9.50	63.90	5.65	2.40	3.50	
20	4.70	3.90	1.80	9.45	1.96	1.88	3.60	14.30	32.77	5.35	2.40	5.20	
21	6.15	2.52	1.64	6.75	1.88	2.12	4.40	17.71	24.13	5.05	2.30	2.90	
22	3.90	2.92	1.64	5.00	1.96	1.96	4.70	37.20	20.18	4.75	2.30	2.50	
23	3.00	2.52	1.64	4.40	1.88	1.80	10.35	24.87	19.19	4.75	2.20	2.10	
24	2.60	2.20	1.56	3.70	1.88	1.64	4.90	33.02	16.97	4.75	2.20	1.90	
25	2.28	1.96	1.56	3.50	3.90	2.04	3.70	28.33	14.53	4.45	2.10	1.70	
26	2.44	2.04	1.48	3.20	2.92	1.80	20.00	31.04	12.95	5.05	2.10	1.70	
27	3.00	1.88	1.48	2.92	2.44	1.64	7.95	34.25	17.96	4.45	2.20	1.90	
28	6.90	3.40	1.40	2.76	2.12	1.56	7.50	25.12	45.90	4.45	2.10	3.00	
29	3.40	4.60	1.40	2.68	2.12	5.40	9.00	19.19	34.01	4.15		2.00	
30	2.84	3.60	1.40	2.60	1.96	2.92	7.80	15.74	21.66	1.90		1.70	
31		2.52		2.60	2.20		10.05		19.19	3.80		1.60	
TOTAL	90.95	73.12	58.06	158.34	77.89	69.36	140.55	589.86	746.55	241.19	76.30	63.00	2385.17 CMSDAY
MEAN	3.03	2.36	1.94	5.11	2.51	2.31	4.53	19.66	24.08	7.78	2.72	2.03	6.53 CMS
MAX	6.90	4.60	3.70	33.25	6.15	5.40	20.00	47.20	72.60	17.96	3.70	5.20	72.60 CMS
MIN	1.56	1.72	1.40	1.33	1.88	1.56	2.04	9.30	7.75	1.90	2.10	1.50	1.33 CMS
RUNOFF	7.858	6.318	5.016	13.681	6.730	5.993	12.144	50.964	64.502	20.839	6.592	5.443	206.079 MCM

MOMENTARY PEAK 92.95 CMS, AT 4.27 M (A.D), AT 6.00 HOURS, ON DEC 10, 1982

RUNOFF YIELD 49.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 698.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

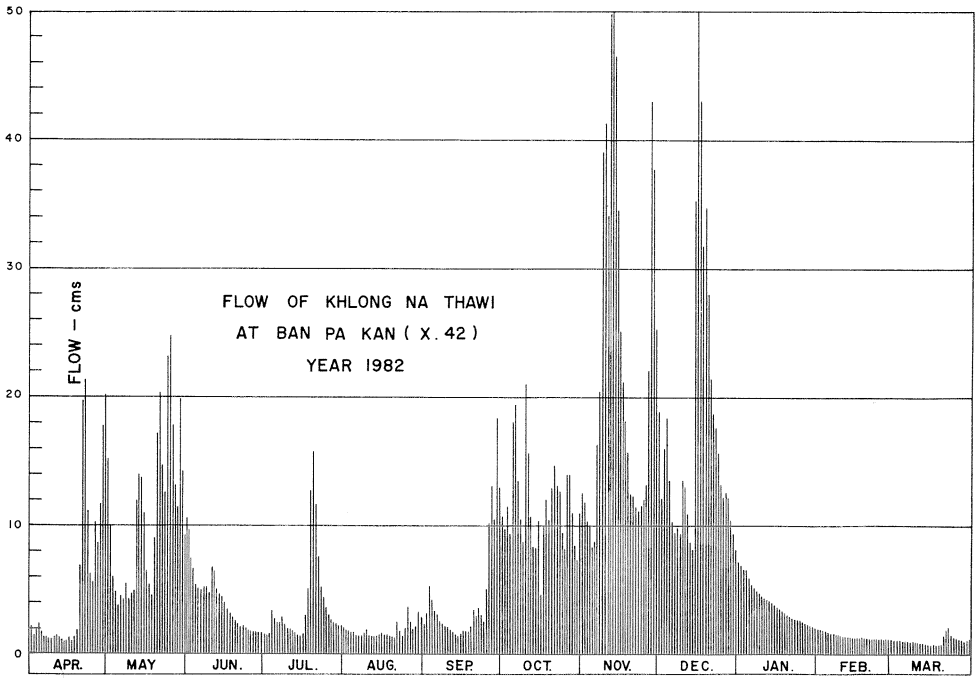
KHLONG NA THAWI AT BAN PA KAN, SONGKHLA (X.42)

LOCATION	LAT. 6°-41'-13" N., LONG. 100°-41'-21" E., ON LEFT BANK AT BAN PA KAN, TAMBON THA PRADU, AMPHOE NA THAWI, SONGKHLA.
DRAINAGE AREA	443 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 7 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+7.013 M. (A.D.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 06.00, 12.00 AND 18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1976-1977
RATED BY FLOAT	-
RATED BY CURRENT METER	1976-1977
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.58 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 129 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.04	2.97	2.44	0.87	1.00	1.22	2.50	2.64	3.24	2.05	0.99	0.68	
2	0.80	2.38	2.36	0.84	0.97	1.11	2.32	2.60	2.63	1.95	0.98	0.67	
3	0.95	1.83	2.02	0.90	0.93	1.30	2.56	2.41	3.05	1.90	0.97	0.67	
4	1.03	1.58	1.87	1.32	0.91	1.69	2.28	2.35	3.30	1.90	0.94	0.66	
5	0.87	1.38	1.71	1.20	0.92	1.48	3.27	2.16	2.81	1.80	0.91	0.65	
6	0.78	1.51	1.64	1.11	0.89	1.30	3.39	2.19	2.38	1.72	0.90	0.64	
7	0.77	1.48	1.62	1.10	0.85	1.26	2.80	3.38	2.29	1.68	0.98	0.63	
8	0.74	1.68	1.68	1.20	0.85	1.13	2.48	3.53	2.33	1.62	0.87	0.63	
9	0.72	1.47	1.69	1.10	0.99	1.12	2.20	5.04	2.29	1.60	0.86	0.62	
10	0.78	1.54	1.59	1.01	0.96	1.02	3.60	5.21	2.79	1.57	0.84	0.61	
11	0.82	1.59	1.94	0.99	0.85	0.96	3.13	4.66	2.76	1.54	0.84	0.60	
12	0.76	2.61	1.87	0.94	0.84	0.92	2.45	5.88	2.42	1.52	0.83	0.59	
13	0.69	2.86	1.65	0.88	0.81	0.87	2.14	6.26	2.19	1.47	0.82	0.61	
14	0.64	2.83	1.56	0.86	0.80	0.85	2.13	5.46	2.12	1.43	0.81	0.60	
15	0.60	2.53	1.52	0.83	0.81	0.86	2.40	4.68	4.73	1.39	0.80	0.59	
16	0.79	1.93	1.43	0.86	0.85	0.95	1.57	4.10	6.66	1.36	0.80	0.58	
17	0.67	1.72	1.35	1.08	0.91	0.96	2.48	3.59	5.09	1.33	0.79	0.57	
18	0.81	1.55	1.30	1.69	0.85	0.92	2.57	3.29	4.49	1.30	0.78	0.56	
19	0.96	2.24	1.22	2.71	0.87	1.05	2.42	3.05	4.70	1.26	0.77	0.57	
20	1.80	3.17	1.16	3.04	0.78	1.32	2.75	2.68	4.14	1.23	0.76	0.59	
21	3.43	3.48	1.12	2.58	0.74	1.25	2.93	2.66	3.70	1.21	0.75	0.80	
22	3.57	2.93	1.03	2.19	1.10	1.37	2.75	2.56	3.34	1.18	0.74	0.97	
23	2.59	2.69	1.07	1.78	0.93	1.31	2.71	2.51	3.24	1.16	0.74	1.00	
24	1.83	3.76	1.02	1.54	0.84	1.13	2.45	2.56	2.98	1.14	0.73	0.81	
25	1.74	3.89	0.99	1.40	1.00	1.76	2.13	2.61	2.78	1.12	0.73	0.77	
26	2.37	3.41	0.95	1.28	1.36	2.40	2.86	2.77	2.64	1.10	0.72	0.76	
27	2.19	2.77	0.93	1.20	1.15	2.75	2.86	3.65	2.67	1.08	0.70	0.73	
28	2.54	2.54	0.92	1.14	0.99	2.43	2.36	5.34	2.51	1.07	0.70	0.67	
29	3.26	3.43	0.94	1.09	1.04	3.30	2.16	4.94	2.37	1.06		0.68	
30	3.48	2.91	0.92	1.04	1.31	2.77	2.02	3.94	2.26	1.03		0.69	
31		2.25		1.03	1.17		2.45		2.16	1.01		0.70	
MEAN	1.47	2.42	1.45	1.32	0.94	1.43	2.55	3.62	3.13	1.41	0.82	0.67	
MAX	3.57	3.89	2.44	3.04	1.36	3.30	3.60	6.26	6.66	2.05	0.99	1.00	6.66
MIN	0.60	1.38	0.92	0.83	0.74	0.85	1.57	2.16	2.12	1.01	0.70	0.56	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.79 M (A.D), AT 18.00 HOURS, ON DEC 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.04 M (A.D)
LEFT BANK ELEVATION 6.57 M (A.D)
RIGHT BANK ELEVATION 6.82 M (A.D), DRAINAGE AREA 443 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.26	15.10	10.72	1.65	2.10	3.00	11.20	12.32	17.80	7.65	2.07	1.16	
2	1.40	10.24	10.08	1.54	2.00	2.54	9.76	12.00	12.24	6.95	2.03	1.14	
3	1.92	6.18	7.44	1.75	1.85	3.40	11.68	10.48	15.90	6.60	2.00	1.14	
4	2.22	4.80	6.42	3.50	1.79	5.35	9.44	10.00	18.40	6.60	1.89	1.12	
5	1.65	3.80	5.46	2.90	1.82	4.30	18.10	8.48	13.68	6.00	1.79	1.10	
6	1.36	4.45	5.10	2.54	1.71	3.40	19.30	8.72	10.24	5.52	1.75	1.08	
7	1.34	4.30	5.00	2.50	1.58	3.20	13.60	19.20	9.52	5.30	2.03	1.06	
8	1.28	5.30	5.30	2.90	1.58	2.62	11.04	20.83	9.84	5.00	1.65	1.06	
9	1.24	4.25	5.35	2.50	2.07	2.58	8.80	39.02	9.52	4.90	1.61	1.04	
10	1.36	4.60	4.85	2.14	1.96	2.18	21.60	41.23	13.52	4.75	1.54	1.02	
11	1.47	4.85	6.88	2.07	1.58	1.96	16.70	34.08	13.28	4.60	1.54	1.00	
12	1.32	12.08	6.42	1.89	1.54	1.82	10.80	49.94	10.56	4.50	1.50	0.98	
13	1.18	14.08	5.15	1.68	1.43	1.65	8.32	55.14	8.72	4.25	1.47	1.02	
14	1.08	13.84	4.70	1.61	1.40	1.58	8.24	44.48	8.16	4.05	1.43	1.00	
15	1.00	11.44	4.50	1.50	1.43	1.61	10.40	34.34	34.99	3.85	1.40	0.98	
16	1.38	6.81	4.05	1.61	1.58	1.92	4.75	27.10	60.74	3.70	1.40	0.96	
17	1.14	5.52	3.65	2.42	1.79	1.96	11.04	21.49	39.67	3.55	1.38	0.94	
18	1.43	4.65	3.40	5.35	1.58	1.82	11.76	18.30	31.87	3.40	1.36	0.92	
19	1.96	9.12	3.00	12.88	1.65	2.30	10.56	15.90	34.60	3.20	1.34	0.94	
20	6.00	17.10	2.74	15.80	1.36	3.50	13.20	12.64	27.58	3.05	1.32	0.98	
21	19.73	20.28	2.58	11.84	1.28	3.15	14.70	12.48	22.70	2.95	1.30	1.40	
22	21.27	14.70	2.22	8.72	2.50	3.75	13.20	11.68	18.80	2.82	1.28	2.00	
23	11.92	12.72	2.38	5.88	1.85	3.45	12.88	11.28	17.80	2.74	1.28	2.10	
24	6.18	23.36	2.18	4.60	1.54	2.62	10.80	11.68	15.20	2.66	1.26	1.43	
25	5.64	24.79	2.07	3.90	2.10	5.76	8.24	12.08	13.44	2.58	1.26	1.34	
26	10.16	19.51	1.92	3.30	3.70	10.40	14.08	13.36	12.32	2.50	1.24	1.32	
27	8.72	13.36	1.85	2.90	2.70	13.20	14.08	22.15	12.56	2.42	1.20	1.26	
28	11.52	11.52	1.82	2.66	2.07	10.64	10.08	42.92	11.28	2.38	1.20	1.14	
29	18.00	19.73	1.89	2.46	2.26	18.40	8.48	37.72	10.16	2.34		1.16	
30	20.28	14.50	1.82	2.26	3.45	13.36	7.44	25.34	9.28	2.22		1.18	
31		9.20		2.22	2.78		10.80		8.48	2.14		1.20	
TOTAL	167.41	346.18	130.94	121.47	60.03	137.42	365.07	696.38	552.85	125.17	42.52	36.17	2781.61 CMSDAY
MEAN	5.58	11.17	4.36	3.92	1.94	4.58	11.78	23.21	17.83	4.04	1.52	1.17	7.62 CMS
MAX	21.27	24.79	10.72	15.80	3.70	18.40	21.60	55.14	60.74	7.65	2.07	2.10	60.74 CMS
MIN	1.00	3.80	1.82	1.50	1.28	1.58	4.75	8.48	8.16	2.14	1.20	0.92	0.92 CMS
RUNOFF	14.464	29.910	11.313	10.495	5.187	11.873	31.542	60.167	47.766	10.815	3.674	3.125	240.331 MCM

MOMENTARY PEAK 62.56 CMS, AT 6.79 M (A.D), AT 18.00 HOURS, ON DEC 15, 1982

RUNOFF YIELD 17.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 141.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

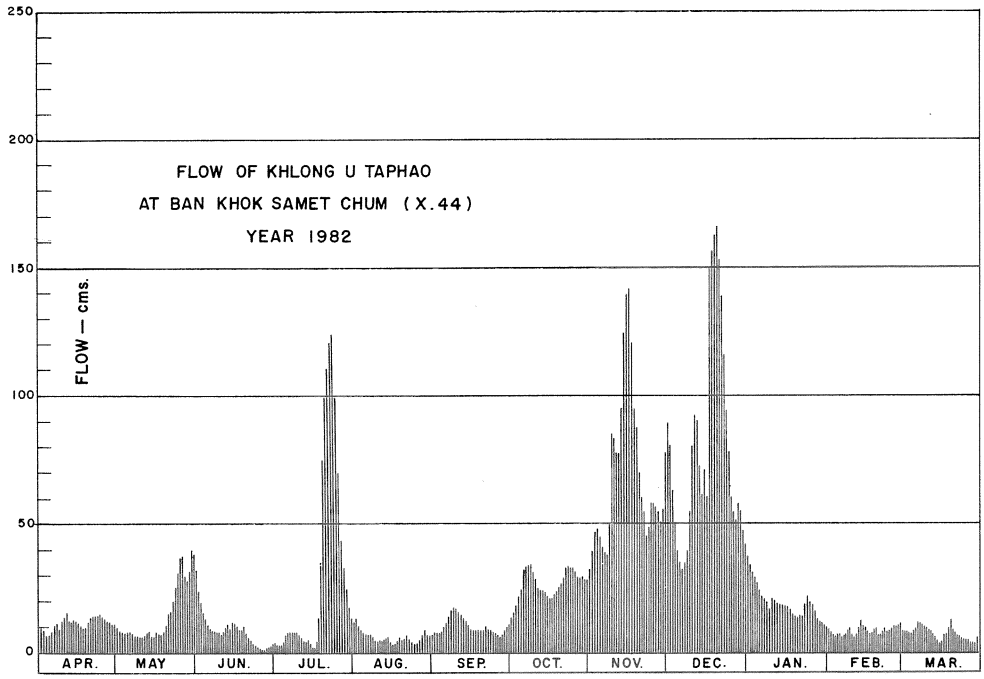
KHLONG U TAPHAO AT BAN KHOK SAMET CHUM, SONGKHLA (X.44)

LOCATION	LAT. 7°-00'-02" N., LONG. 100°-27'-32" E., ON LEFT BANK AT THE BRIDGE OF HAT YAI-RATTAPHUM HIGHWAY, BAN KHOK SAMET CHUM, AMPHOE HAT YAI, SONGKHLA.
DRAINAGE AREA	1,740 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 30 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+7.920 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1972
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1972
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 132 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.03	1.07	1.72	0.82	1.19	1.02	1.23	1.84	2.99	1.89	1.08	1.06	
2	1.04	1.02	1.50	0.80	1.21	1.05	1.32	1.98	2.79	1.78	1.02	1.02	
3	0.96	0.98	1.34	0.78	1.11	1.02	1.37	2.16	2.44	1.71	0.99	1.02	
4	0.93	0.97	1.24	0.74	1.04	1.02	1.48	2.16	2.15	1.72	0.99	0.98	
5	0.98	1.02	1.12	0.78	0.98	1.09	1.58	2.05	1.93	1.61	1.03	1.00	
6	1.10	1.03	1.05	0.94	0.96	1.17	1.79	1.96	1.78	1.49	0.97	1.13	
7	1.13	0.98	1.07	1.01	0.97	1.29	1.81	1.90	1.75	1.46	0.92	1.17	
8	1.07	0.95	1.04	1.03	0.97	1.33	1.81	2.17	1.90	1.42	0.98	1.14	
9	1.13	0.95	1.01	1.03	0.89	1.38	1.83	2.92	2.04	1.35	1.04	1.12	
10	1.26	0.93	1.03	1.01	0.87	1.34	1.70	2.89	2.56	1.46	1.06	1.06	
11	1.28	0.95	0.96	0.97	0.88	1.31	1.62	2.77	3.06	1.47	0.99	1.05	
12	1.19	0.98	1.09	0.91	0.84	1.26	1.54	2.74	3.02	1.42	0.94	1.01	
13	1.17	1.03	1.12	0.85	0.90	1.21	1.55	3.02	2.70	1.41	1.04	0.94	
14	1.23	0.94	1.07	0.88	0.92	1.16	1.53	3.61	2.43	1.41	1.21	0.94	
15	1.19	0.92	1.19	0.84	0.87	1.10	1.50	3.89	2.63	1.41	1.14	0.81	
16	1.15	1.02	1.14	0.77	0.81	1.05	1.47	3.93	2.42	1.41	1.00	0.96	
17	1.10	0.96	1.06	0.77	0.79	1.06	1.45	3.65	4.07	1.34	0.98	0.98	
18	1.07	0.97	1.07	0.95	0.90	1.07	1.52	3.24	4.16	1.31	1.00	1.07	
19	1.14	1.00	1.08	1.86	0.97	1.07	1.53	2.94	4.24	1.25	1.08	1.20	
20	1.22	1.13	1.00	3.00	0.91	1.07	1.60	2.64	4.30	1.26	1.05	1.14	
21	1.24	1.28	0.94	3.39	0.94	1.12	1.67	2.43	4.13	1.29	0.97	1.01	
22	1.25	1.32	0.90	3.58	0.96	1.06	1.78	2.25	3.82	1.26	1.03	0.98	
23	1.24	1.45	0.80	3.60	0.90	1.04	1.82	2.09	3.32	1.41	1.10	0.93	
24	1.28	1.63	0.76	3.41	0.83	1.03	1.79	2.22	2.90	1.50	1.01	0.92	
25	1.25	1.86	0.74	3.03	0.76	1.03	1.78	2.36	2.53	1.44	1.06	0.88	
26	1.22	1.89	0.70	2.56	0.86	0.98	1.75	2.35	2.31	1.42	1.09	0.89	
27	1.17	1.78	0.71	2.12	0.94	0.95	1.68	2.32	2.25	1.31	1.11	0.86	
28	1.16	1.67	0.68	1.80	1.04	1.00	1.69	2.24	2.37	1.23	1.12	0.85	
29	1.15	1.75	0.73	1.58	0.99	1.04	1.70	2.31	2.32	1.16		0.85	
30	1.13	1.97	0.78	1.42	0.99	1.09	1.67	2.76	2.18	1.12		0.93	
31		1.92		1.26	1.01		1.65		2.03	1.08		0.98	
MEAN	1.15	1.24	1.02	1.56	0.94	1.11	1.62	2.59	2.76	1.41	1.04	1.00	
MAX	1.28	1.97	1.72	3.60	1.21	1.38	1.83	3.93	4.30	1.89	1.21	1.20	4.30
MIN	0.93	0.92	0.68	0.74	0.76	0.95	1.23	1.84	1.75	1.08	0.92	0.81	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.30 M (A.D), AT 6.00 HOURS, ON DEC 20, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.53 M (A.D)
LEFT BANK ELEVATION 8.60 M (A.D)
RIGHT BANK ELEVATION 9.55 M (A.D), DRAINAGE AREA 1740 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.75	9.75	30.80	3.90	12.75	8.50	13.90	35.60	89.50	37.60	10.00	9.50	
2	9.00	8.50	23.00	3.50	13.30	9.25	16.70	41.20	79.50	33.20	8.50	8.50	
3	7.00	7.50	17.40	3.10	10.75	8.50	18.45	48.70	62.00	30.40	7.75	8.50	
4	6.25	7.25	14.20	2.30	9.00	8.50	22.30	48.70	48.25	30.80	7.75	7.50	
5	7.50	8.50	11.00	3.10	7.50	10.25	25.80	44.00	39.20	26.85	8.75	8.00	
6	10.50	8.75	9.25	6.50	7.00	12.25	33.60	40.40	33.20	22.65	7.25	11.25	
7	11.25	7.50	9.75	8.25	7.25	15.70	34.40	38.00	32.00	21.60	6.00	12.25	
8	9.75	6.75	9.00	8.75	7.25	17.05	34.40	49.15	38.00	20.20	7.50	11.50	
9	11.25	6.75	8.25	8.75	5.30	18.80	35.20	86.00	43.60	17.75	9.00	11.00	
10	14.80	6.25	8.75	8.25	4.90	17.40	30.00	84.50	68.00	21.60	9.50	9.50	
11	15.40	6.75	7.00	7.25	5.10	16.35	27.20	78.50	93.00	21.95	7.75	9.25	
12	12.75	7.50	10.25	5.75	4.30	14.80	24.40	77.00	91.00	20.20	6.50	8.25	
13	12.25	8.75	11.00	4.50	5.50	13.30	24.75	91.00	75.00	19.85	9.00	6.50	
14	13.90	6.50	9.75	5.10	6.00	12.00	24.05	123.60	61.50	19.85	13.30	6.50	
15	12.75	6.00	12.75	4.30	4.90	10.50	23.00	140.40	71.50	19.85	11.50	3.70	
16	11.75	8.50	11.50	2.90	3.70	9.25	21.95	142.80	61.00	19.85	8.00	7.00	
17	10.50	7.00	9.50	2.90	3.30	9.50	21.25	126.00	151.20	17.40	7.50	7.50	
18	9.75	7.25	9.75	6.75	5.50	9.75	23.70	102.70	156.60	16.35	8.00	9.75	
19	11.50	8.00	10.00	36.40	7.25	9.75	24.05	87.00	161.40	14.50	10.00	13.00	
20	13.60	11.25	8.00	90.00	5.75	9.75	26.50	72.00	165.00	14.80	9.25	11.50	
21	14.20	15.40	6.50	110.95	6.50	11.00	28.95	61.50	154.80	15.70	7.25	8.25	
22	14.50	16.70	5.50	121.80	7.00	9.50	33.20	52.75	136.20	14.80	8.75	7.50	
23	14.20	21.25	3.50	123.00	5.50	9.00	34.80	45.60	107.10	19.85	10.50	6.25	
24	15.40	27.55	2.70	112.05	4.10	8.75	33.60	51.40	85.00	23.00	8.25	6.00	
25	14.50	36.40	2.30	91.50	2.70	8.75	33.20	58.00	66.50	20.90	9.50	5.10	
26	13.60	37.60	1.50	68.00	4.70	7.50	32.00	57.50	55.50	20.20	10.25	5.30	
27	12.25	33.20	1.70	46.90	6.50	6.75	29.30	56.00	52.75	16.35	10.75	4.70	
28	12.00	28.95	1.20	34.00	9.00	8.00	29.65	52.30	58.50	13.90	11.00	4.50	
29	11.75	32.00	2.10	25.80	7.75	9.00	30.00	55.50	56.00	12.00		4.50	
30	11.25	40.80	3.10	20.20	7.75	10.25	28.95	78.00	49.60	11.00		6.25	
31		38.80		14.80	8.25		28.25		43.20	10.00		7.50	
TOTAL	353.85	483.65	271.00	991.25	206.05	329.65	847.50	2125.80	2485.60	624.95	249.05	246.30	9214.65 CMSDAY
MEAN	11.80	15.60	9.03	31.98	6.65	10.99	27.34	70.86	80.18	20.16	8.89	7.95	25.25 CMS
MAX	15.40	40.80	30.80	123.00	13.30	18.80	35.20	142.80	165.00	37.60	13.30	13.00	165.00 CMS
MIN	6.25	6.00	1.20	2.30	2.70	6.75	13.90	35.60	32.00	10.00	6.00	3.70	1.20 CMS
RUNOFF	30.573	41.787	23.414	85.644	17.803	28.482	73.224	183.669	214.756	53.996	21.518	21.280	796.146 MCM

MOMENTARY PEAK 165.00 CMS, AT 4.30 M (A.D), AT 6.00 HOURS, ON DEC 20, 1982

RUNOFF YIELD 14.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 94.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

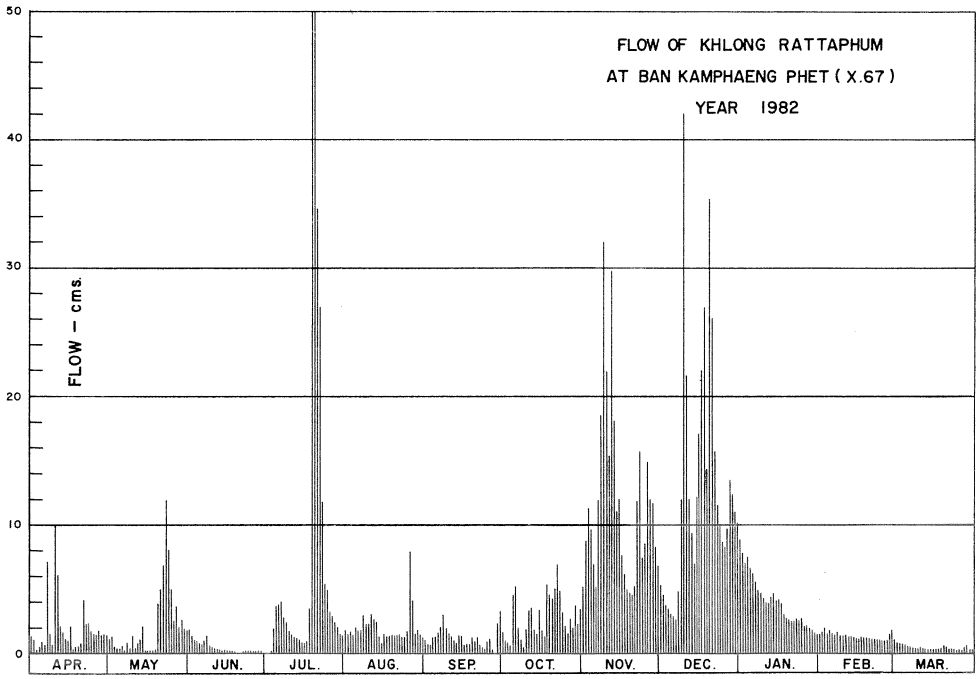
KHLONG RATTAPHUM AT BAN KAMPHAENG PHET, SONGKHLA (X.67)

LOCATION	LAT. 7°-08'-35" N., LONG. 100°-17'-20" E., ON RIGHT BANK ABOUT 3 METERS UPSTREAM FROM THE BRIDGE OF PHATTHALUNG-SONGKHLA HIGHWAY, AMPHOE RATTAPHUM, SONGKHLA.
DRAINAGE AREA	272 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ON RIGHT BANK NEAR THE ABUTMENT OF THE BRIDGE, B.M.2 ON LEFT BANK NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	B.M.1 =+3.415 M. (A.D.), B.M.2 =+3.307 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1967-1972
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1972
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. FLOW REGULATED BY RATTAPHUM WEIR FOR IRRIGATION ABOUT 10,688 HECTARES. STAGE-DISCHARGE RELATION DEFINED BY 283 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.02	0.15	-0.37	0.13	0.02	0.11	0.51	0.51	0.78	0.09	0.02	
2	-0.03	0.05	0.08	-0.32	0.09	-0.05	0.03	0.83	0.45	0.70	0.13	-0.03	
3	-0.13	-0.11	0.02	-0.19	0.13	-0.05	-0.03	0.90	0.38	0.63	0.16	-0.04	
4	-0.10	-0.16	-0.01	0.25	0.05	0.08	-0.04	0.88	0.34	0.66	0.11	-0.05	
5	-0.02	-0.15	-0.04	0.33	0.17	0.07	0.40	0.63	0.29	0.60	0.13	-0.03	
6	-0.06	-0.08	-0.05	0.36	0.16	0.13	0.50	0.49	0.27	0.54	0.12	-0.03	
7	0.63	-0.14	0.03	0.37	0.12	0.22	0.18	0.56	0.25	0.54	0.09	-0.05	
8	0.10	-0.04	0.08	0.27	0.13	0.27	0.00	1.48	0.49	0.48	0.09	-0.05	
9	-0.05	-0.09	-0.01	0.21	0.29	0.20	-0.10	1.93	1.05	0.46	0.08	-0.08	
10	0.82	-0.08	-0.10	0.15	0.22	0.11	0.17	1.52	2.30	0.42	0.05	-0.10	
11	0.58	-0.13	-0.10	0.09	0.29	0.08	0.32	1.14	1.44	0.38	0.06	-0.11	
12	0.22	-0.05	-0.12	0.07	0.25	0.03	0.34	1.83	0.97	0.38	0.07	-0.12	
13	0.14	0.06	-0.14	0.05	0.23	-0.02	0.14	1.27	0.74	0.42	0.05	-0.13	
14	0.05	-0.12	-0.16	0.02	0.06	0.09	0.08	0.90	0.63	0.44	0.06	-0.07	
15	-0.01	-0.19	-0.16	-0.05	-0.03	0.07	0.29	0.94	1.02	0.40	0.05	-0.12	
16	0.16	-0.18	-0.20	-0.04	0.09	-0.05	0.14	0.66	1.32	0.40	0.04	-0.11	
17	-0.13	-0.17	-0.11	0.32	0.21	-0.02	0.28	0.56	1.55	0.38	0.03	-0.15	
18	-0.09	-0.20	-0.21	1.72	0.18	-0.02	0.08	0.48	1.70	0.30	0.03	-0.12	
19	-0.09	-0.09	-0.25	3.06	0.07	0.05	0.49	0.44	1.09	0.25	0.02	-0.07	
20	-0.05	0.37	-0.31	2.68	0.06	-0.01	0.41	0.44	2.04	0.24	0.03	-0.07	
21	0.38	0.44	-0.34	2.04	0.07	0.04	0.46	0.51	1.80	0.23	0.02	-0.06	
22	0.21	0.64	-0.29	1.77	0.08	-0.05	0.62	1.16	1.19	0.25	0.02	-0.12	
23	0.22	1.00	-0.20	0.75	0.05	-0.08	0.45	0.64	0.87	0.26	0.01	-0.12	
24	0.12	0.68	-0.21	0.52	0.05	-0.12	0.31	0.67	0.79	0.25	0.01	-0.20	
25	0.05	0.38	-0.25	0.47	0.13	0.00	0.21	0.73	0.75	0.24	-0.01	-0.23	
26	0.06	0.24	-0.19	0.33	0.68	0.02	0.12	1.12	0.73	0.22	-0.02	-0.14	
27	0.14	0.33	-0.19	0.30	0.39	-0.13	0.25	0.95	0.82	0.21	0.08	-0.13	
28	0.05	0.16	-0.17	0.24	0.09	-0.31	0.16	0.91	1.03	0.20	0.12	-0.07	
29	0.08	0.23	-0.13	0.18	0.13	0.22	0.35	0.72	0.98	0.16		-0.09	
30	0.07	0.16	-0.31	0.09	0.07	0.29	0.20	0.61	0.89	0.11		-0.16	
31		0.15		0.11	0.05		0.36		0.86	0.09		-0.26	
MEAN	0.11	0.09	-0.13	0.51	0.15	0.04	0.23	0.88	0.95	0.37	0.06	-0.10	
MAX	0.82	1.00	0.15	3.06	0.68	0.29	0.62	1.93	2.30	0.78	0.16	0.02	3.06
MIN	-0.13	-0.20	-0.34	-0.37	-0.03	-0.31	-0.10	0.44	0.25	0.09	-0.02	-0.26	-0.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.14 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.45 M (A.D)
LEFT BANK ELEVATION 4.77 M (A.D)
RIGHT BANK ELEVATION 4.29 M (A.D), DRAINAGE AREA 272 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.54	1.12	1.95	0.00	1.81	1.12	1.67	5.53	5.53	9.30	1.54	1.12	
2	0.82	1.30	1.48	0.00	1.54	0.70	1.18	10.08	4.85	8.10	1.81	0.82	
3	0.34	0.38	1.12	0.22	1.81	0.70	0.82	11.20	4.08	7.12	2.02	0.76	
4	0.40	0.28	0.94	2.75	1.30	1.48	0.76	10.88	3.64	7.54	1.67	0.70	
5	0.88	0.30	0.76	3.53	2.09	1.42	4.30	7.12	3.11	6.70	1.81	0.82	
6	0.64	0.52	0.70	3.86	2.02	1.81	5.40	5.29	2.93	5.92	1.74	0.82	
7	7.12	0.32	1.18	3.97	1.74	2.48	2.16	6.18	2.75	5.92	1.54	0.70	
8	1.60	0.76	1.48	2.93	1.81	2.93	1.00	22.08	5.29	5.18	1.54	0.70	
9	0.70	0.46	0.94	2.39	3.11	2.30	0.40	32.25	13.75	4.96	1.48	0.52	
10	9.92	0.52	0.40	1.95	2.48	1.67	2.09	22.92	41.90	4.52	1.30	0.40	
11	6.44	0.34	0.40	1.54	3.11	1.48	3.42	15.36	21.24	4.08	1.36	0.38	
12	2.48	0.70	0.36	1.42	2.75	1.18	3.64	29.82	12.39	4.08	1.42	0.36	
13	1.88	1.36	0.32	1.30	2.57	0.88	1.88	17.83	8.70	4.52	1.30	0.34	
14	1.30	0.36	0.28	1.12	1.36	1.54	1.48	11.20	7.12	4.74	1.36	0.58	
15	0.94	0.22	0.28	0.70	0.82	1.42	3.11	11.88	13.24	4.30	1.30	0.36	
16	2.02	0.24	0.20	0.76	1.54	0.70	1.88	7.54	18.80	4.30	1.24	0.38	
17	0.34	0.26	0.38	3.42	2.39	0.88	3.02	6.18	23.55	4.08	1.18	0.30	
18	0.46	0.20	0.18	27.26	2.16	0.88	1.48	5.18	26.80	3.20	1.18	0.36	
19	0.46	0.46	0.10	64.92	1.42	1.30	5.29	4.74	14.43	2.75	1.12	0.58	
20	0.70	3.97	0.00	52.88	1.36	0.94	4.41	4.74	35.04	2.66	1.18	0.58	
21	4.08	4.74	0.00	35.04	1.42	1.24	4.96	5.53	29.10	2.57	1.12	0.64	
22	2.39	7.26	0.02	28.41	1.48	0.70	6.98	15.74	16.31	2.75	1.12	0.36	
23	2.48	12.90	0.20	8.85	1.30	0.52	4.85	7.26	10.72	2.84	1.06	0.36	
24	1.74	7.82	0.18	5.66	1.30	0.36	3.31	7.68	9.45	2.75	1.06	0.20	
25	1.30	4.08	0.10	5.07	1.81	1.00	2.39	8.55	8.85	2.66	0.94	0.14	
26	1.36	2.66	0.22	3.53	7.82	1.12	1.74	14.98	8.55	2.48	0.88	0.32	
27	1.88	3.53	0.22	3.20	4.19	0.34	2.75	12.05	9.92	2.39	1.48	0.34	
28	1.30	2.02	0.26	2.66	1.54	0.00	2.02	11.37	13.41	2.30	1.74	0.58	
29	1.48	2.57	0.34	2.16	1.81	2.48	3.75	8.40	12.56	2.02		0.46	
30	1.42	2.02	0.00	1.54	1.42	3.11	2.30	6.84	11.04	1.67		0.28	
31		1.95		1.67	1.30		3.86		10.56	1.54		0.08	
TOTAL	60.41	65.62	14.99	274.71	64.58	38.68	88.30	346.40	409.61	129.94	38.49	15.34	1547.07 CMSDAY
MEAN	2.01	2.12	0.50	8.86	2.08	1.29	2.85	11.55	13.21	4.19	1.37	0.49	4.24 CMS
MAX	9.92	12.90	1.95	64.92	7.82	3.11	6.98	32.25	41.90	9.30	2.02	1.12	64.92 CMS
MIN	0.34	0.20	0.00	0.00	0.82	0.00	0.40	4.74	2.75	1.54	0.88	0.08	0.00 CMS
RUNOFF	5.219	5.670	1.295	23.735	5.580	3.342	7.629	29.929	35.390	11.227	3.326	1.325	133.667 MCM

MOMENTARY PEAK 67.52 CMS, AT 3.14 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982
RUNOFF YIELD 15.58 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 248.24 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

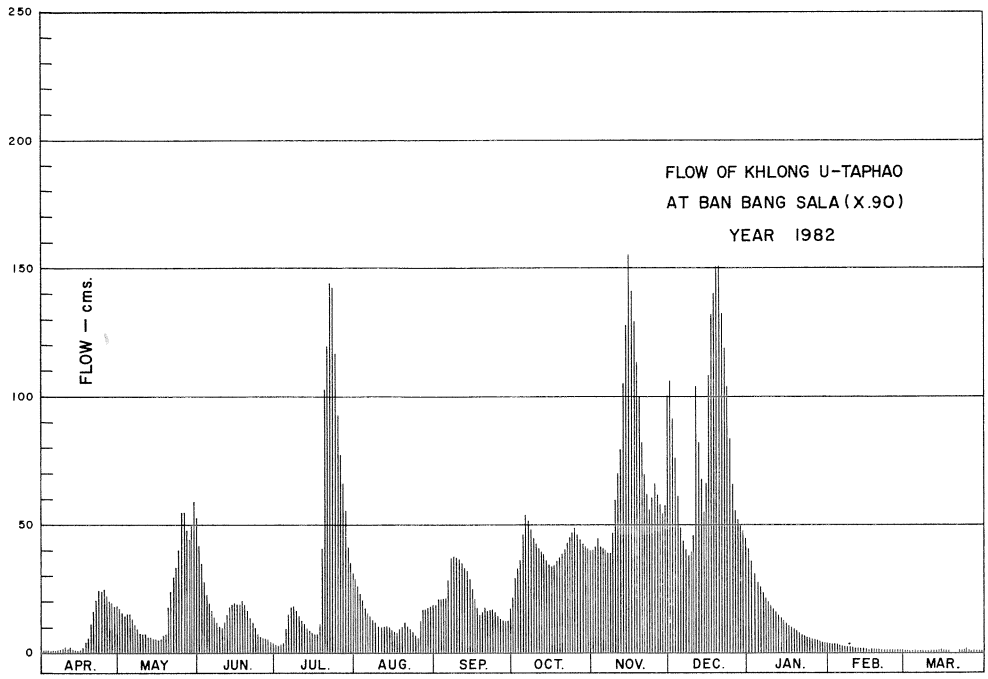
KHLONG U TAPHAO AT BAN BANG SALA, SONGKHLA (X.90)

LOCATION	LAT. 6°-55'-39" N., LONG. 100°-26'-37" E., ON LEFT BANK ABOUT 5 METERS UPSTREAM FROM THE BRIDGE ON HIGHWAY AND NEAR THE PHATTHANA TAMBON STREET, AMPHOE HAT YAI, SONGKHLA.
DRAINAGE AREA	1,562 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	B.M.1 ON RIGHT BANK ABOUT 46 METERS FROM THE GAGE LINE, B.M.2 ON LEFT BANK ABOUT 68 METERS FROM THE GAGE LINE.
ELEVATION	B.M.1=+5.909 M. (A.D.), B.M.2=+7.651 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1971 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1971-1972, 1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1972, 1979 TO DATE.
STABILITY OF CHANNEL REGIMES	RATHER UNSTABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 60 DISCHARGE MEASUREMENT MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.03	2.47	3.83	1.37	3.13	2.64	3.00	3.68	6.05	3.52	1.40	0.98	
2	1.09	2.37	3.47	1.34	2.98	2.73	3.19	3.79	5.60	3.42	1.35	0.97	
3	0.93	2.29	3.11	1.31	2.77	2.73	3.32	3.90	4.97	3.24	1.31	0.96	
4	0.93	2.36	2.82	1.43	2.63	2.73	3.68	3.75	4.53	3.08	1.30	0.95	
5	0.95	2.34	2.66	1.89	2.47	2.97	4.04	3.75	4.09	2.97	1.28	0.94	
6	0.99	2.20	2.48	2.39	2.37	3.28	4.30	3.65	3.89	2.81	1.27	0.91	
7	0.98	2.07	2.31	2.51	2.25	3.55	4.13	3.61	3.67	2.69	1.28	0.90	
8	0.98	1.88	2.18	2.56	2.19	3.57	4.01	3.80	3.58	2.61	1.23	0.88	
9	1.00	1.75	2.05	2.48	2.10	3.53	3.94	4.29	3.65	2.54	1.20	0.88	
10	1.11	1.73	1.96	2.34	2.04	3.49	3.87	4.55	3.94	2.47	1.18	0.87	
11	1.13	1.77	2.22	2.23	1.96	3.43	3.74	4.96	6.00	2.38	1.19	0.85	
12	1.15	1.67	2.47	2.05	1.98	3.31	3.64	5.36	5.09	2.30	1.15	0.85	
13	1.09	1.60	2.53	1.96	1.99	3.32	3.62	6.22	4.75	2.23	1.12	0.84	
14	1.02	1.56	2.59	1.94	1.99	3.03	3.53	7.05	4.32	2.15	1.12	0.84	
15	0.97	1.51	2.65	1.87	1.94	2.84	3.43	7.27	4.67	2.09	1.12	0.84	
16	0.95	1.54	2.62	1.80	1.87	2.63	3.36	7.06	6.09	2.05	1.12	0.83	
17	1.24	1.58	2.64	1.79	1.86	2.41	3.40	6.67	6.74	2.01	1.12	0.82	
18	1.40	1.71	2.66	2.17	1.88	2.37	3.47	6.25	6.97	1.96	1.12	0.81	
19	1.54	1.72	2.61	4.15	2.09	2.45	3.53	5.87	7.17	1.91	1.11	0.80	
20	2.16	2.53	2.37	5.98	2.12	2.55	3.57	5.41	7.16	1.88	1.10	0.80	
21	2.52	2.90	2.24	6.74	2.08	2.52	3.68	4.92	6.97	1.81	1.10	0.80	
22	2.74	3.12	2.13	7.03	1.96	2.49	3.81	4.64	6.60	1.75	1.08	0.81	
23	2.89	3.36	1.90	6.98	1.82	2.50	3.91	4.36	6.00	1.69	1.06	0.81	
24	2.90	3.70	1.79	6.64	1.70	2.44	4.00	4.57	5.35	1.63	1.04	1.00	
25	2.86	4.33	1.71	6.01	1.66	2.38	4.05	4.76	4.79	1.56	1.02	1.04	
26	2.74	4.32	1.65	5.27	1.68	2.28	3.99	4.66	4.40	1.50	1.00	0.98	
27	2.65	4.06	1.59	4.76	2.22	2.20	3.91	4.48	4.24	1.48	0.99	0.88	
28	2.64	3.89	1.56	4.19	2.47	2.20	3.84	4.30	4.14	1.47	0.98	0.86	
29	2.57	4.12	1.49	3.83	2.52	2.20	3.81	4.48	4.08	1.45		0.85	
30	2.53	4.48	1.40	3.55	2.56	2.52	3.73	5.90	4.01	1.43		0.85	
31		4.27		3.28	2.60		3.66		3.85	1.42		0.83	
MEAN	1.66	2.62	2.32	3.35	2.19	2.78	3.71	4.93	5.08	2.18	1.16	0.88	
MAX	2.90	4.48	3.83	7.03	3.13	3.57	4.30	7.27	7.17	3.52	1.40	1.04	7.27
MIN	0.93	1.51	1.40	1.31	1.66	2.20	3.00	3.61	3.58	1.42	0.98	0.80	0.80

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.28 M (A.D), AT 6.00 HOURS, ON NOV 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.07 M (A.D)
LEFT BANK ELEVATION 9.14 M (A.D)
RIGHT BANK ELEVATION 9.14 M (A.D), DRAINAGE AREA 1562 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.18	18.32	43.46	4.73	29.40	21.04	26.80	40.40	105.89	37.20	5.00	1.90	
2	2.54	16.72	36.20	4.46	26.48	22.48	30.60	42.60	90.50	35.20	4.55	1.85	
3	1.65	15.46	29.00	4.19	23.12	22.48	33.20	45.00	71.60	31.60	4.19	1.80	
4	1.65	16.56	23.92	5.30	20.88	22.48	40.40	41.80	60.25	28.40	4.10	1.75	
5	1.75	16.24	21.36	10.18	18.32	26.32	48.12	41.80	49.27	26.32	3.94	1.70	
6	1.95	14.20	18.48	17.04	16.72	32.40	54.50	39.80	44.78	23.76	3.86	1.55	
7	1.90	12.51	15.76	18.96	14.90	37.80	50.25	39.00	40.20	21.84	3.94	1.50	
8	1.90	10.06	13.94	19.76	14.07	38.20	47.43	42.80	38.40	20.56	3.54	1.40	
9	2.00	8.55	12.25	18.48	12.90	37.40	45.88	54.25	39.80	19.44	3.30	1.40	
10	2.67	8.33	11.08	16.24	12.12	36.60	44.34	60.75	45.88	18.32	3.16	1.35	
11	2.81	8.77	14.48	14.62	11.08	35.40	41.60	71.30	104.12	16.88	3.23	1.25	
12	2.95	7.70	18.32	12.25	11.34	33.00	39.60	83.30	75.20	15.60	2.95	1.25	
13	2.54	7.00	19.28	11.08	11.47	33.20	39.20	112.04	65.75	14.62	2.74	1.20	
14	2.12	6.60	20.24	10.82	11.47	27.40	37.40	147.07	55.00	13.55	2.74	1.20	
15	1.85	6.10	21.20	9.94	10.82	24.24	35.40	156.35	63.75	12.77	2.74	1.20	
16	1.75	6.40	20.72	9.10	9.94	20.88	34.00	147.49	107.31	12.25	2.74	1.15	
17	3.62	6.80	21.04	8.99	9.82	17.36	34.80	131.03	133.99	11.73	2.74	1.10	
18	5.00	8.11	21.36	13.81	10.06	16.72	36.20	113.31	143.69	11.08	2.74	1.05	
19	6.40	8.22	20.56	50.75	12.77	18.00	37.40	99.52	152.13	10.43	2.67	1.00	
20	13.68	19.28	16.72	103.41	13.16	19.60	38.20	84.80	151.71	10.06	2.60	1.00	
21	19.12	25.20	14.76	133.99	12.64	19.12	40.40	70.10	143.69	9.22	2.60	1.00	
22	22.64	29.20	13.29	146.23	11.08	18.64	43.02	63.00	128.08	8.55	2.48	1.05	
23	25.04	34.00	10.30	144.12	9.34	18.80	45.22	56.00	104.12	7.90	2.36	1.05	
24	25.20	40.80	8.99	129.77	8.00	17.84	47.20	61.25	83.00	7.30	2.24	2.00	
25	24.56	55.25	8.11	104.47	7.60	16.88	48.35	66.00	66.75	6.60	2.12	2.24	
26	22.64	55.00	7.50	80.60	7.80	15.32	46.98	63.50	57.00	6.00	2.00	1.90	
27	21.20	48.58	6.90	66.00	14.48	14.20	45.22	59.00	53.00	5.80	1.95	1.40	
28	21.04	44.78	6.60	51.75	18.32	14.20	43.68	54.50	50.50	5.70	1.90	1.30	
29	19.92	50.00	5.90	43.46	19.12	14.20	43.02	59.00	49.04	5.50		1.25	
30	19.28	59.00	5.00	37.80	19.76	19.12	41.40	100.58	47.43	5.30		1.25	
31		53.75		32.40	20.40		40.00		43.90	5.20		1.15	
TOTAL	283.55	717.49	506.72	1334.70	449.38	711.32	1279.81	2247.34	2465.73	464.68	85.12	43.19	10589.03 CMSDAY
MEAN	9.45	23.14	16.89	43.05	14.50	23.71	41.28	74.91	79.54	14.99	3.04	1.39	29.01 CMS
MAX	25.20	59.00	43.46	146.23	29.40	38.20	54.50	156.35	152.13	37.20	5.00	2.24	156.35 CMS
MIN	1.65	6.10	5.00	4.19	7.60	14.20	26.80	39.00	38.40	5.20	1.90	1.00	1.00 CMS
RUNOFF	24.499	61.991	43.781	115.318	38.826	61.458	110.576	194.170	213.039	40.148	7.354	3.732	914.892 MCM

MOMENTARY PEAK 156.78 CMS, AT 7.28 M (A.D), AT 6.00 HOURS, ON NOV 15, 1982

RUNOFF YIELD 18.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 100.37 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

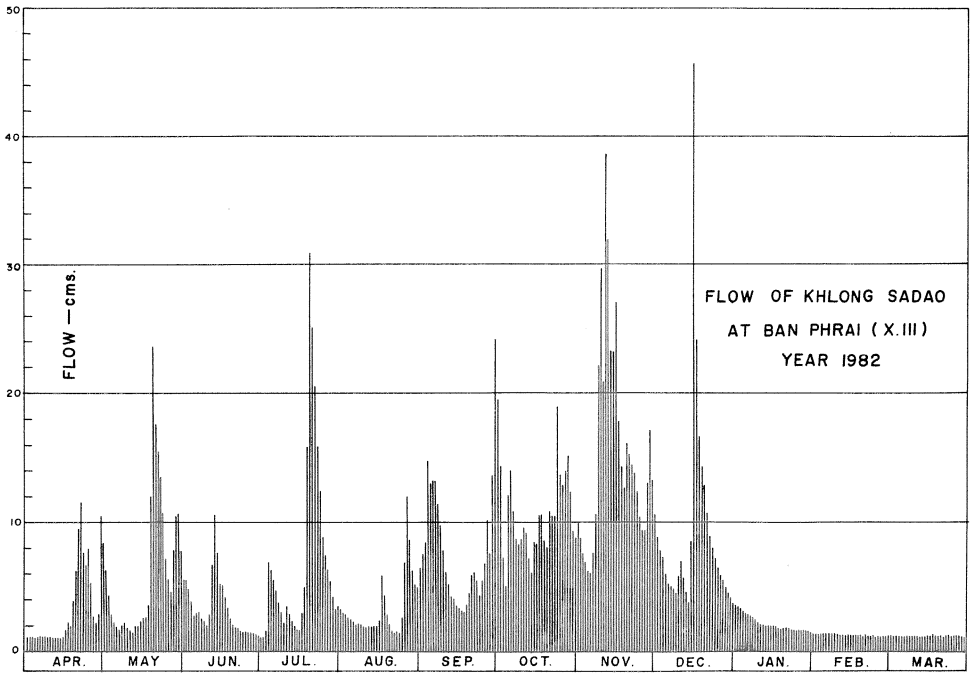
KHLONG SADAO AT BAN PHRAI, SONGKHLA (X.111)

LOCATION	LAT. 6°-39'-37" N., LONG. 100°-26'-09" E., ON LEFT BANK AT BAN PHRAI, AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	256 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP OF STAFF GAGE.
ELEVATION	+5.698 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 61 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	2.85	2.28	0.66	1.77	2.64	3.95	3.08	3.20	1.61	0.67	0.54	
2	0.52	2.25	2.29	0.64	1.68	2.73	3.67	3.02	2.89	1.53	0.65	0.53	
3	0.55	1.86	1.88	0.73	1.30	3.02	2.32	2.71	2.75	1.46	0.65	0.53	
4	0.57	1.31	1.65	2.61	1.16	3.70	2.14	2.54	2.67	1.40	0.63	0.53	
5	0.53	0.97	1.41	2.39	1.17	3.70	3.67	2.45	2.43	1.35	0.63	0.52	
6	0.52	0.85	1.43	2.20	1.07	3.58	3.59	2.11	2.20	1.32	0.62	0.52	
7	0.54	0.85	1.37	1.84	0.94	3.60	3.22	2.69	2.07	1.20	0.61	0.51	
8	0.62	1.14	1.18	1.53	0.83	3.44	2.90	3.18	2.06	1.16	0.61	0.51	
9	0.54	0.99	1.06	1.24	0.90	3.09	3.00	4.11	2.02	1.09	0.61	0.51	
10	0.56	0.80	1.00	1.13	1.04	2.70	3.07	4.18	2.48	1.05	0.61	0.50	
11	0.56	0.78	1.53	1.70	0.99	2.37	3.14	3.99	2.59	1.02	0.60	0.50	
12	0.52	0.73	2.57	1.43	1.04	2.13	3.04	4.31	2.21	1.00	0.60	0.51	
13	0.49	0.89	3.30	1.12	0.91	1.90	2.69	4.19	1.96	1.00	0.60	0.51	
14	0.48	0.89	2.71	0.96	0.79	1.67	2.41	4.05	1.71	0.99	0.60	0.50	
15	0.55	1.04	2.14	0.86	0.98	1.58	2.97	4.05	3.17	0.94	0.60	0.50	
16	0.77	1.27	1.97	0.80	1.27	1.57	2.93	4.14	4.40	0.90	0.60	0.49	
17	1.09	1.37	1.76	1.63	2.37	1.42	3.29	3.91	4.01	0.88	0.60	0.48	
18	1.03	1.38	1.45	2.61	1.92	1.52	3.29	3.70	3.76	0.87	0.59	0.48	
19	2.10	2.84	1.16	4.14	1.25	1.93	2.94	3.50	3.68	0.85	0.58	0.47	
20	2.66	4.06	1.01	4.21	0.88	2.07	2.81	3.79	3.56	0.83	0.58	0.47	
21	3.31	3.87	0.93	4.06	0.79	2.22	3.43	3.74	3.29	0.80	0.58	0.49	
22	3.40	3.76	0.85	3.94	0.76	2.40	3.39	3.70	3.04	0.79	0.57	0.61	
23	2.75	3.60	0.91	3.73	0.78	2.14	3.40	3.65	2.84	0.75	0.57	0.64	
24	2.51	3.37	0.90	3.41	0.74	1.62	3.92	3.46	2.68	0.74	0.56	0.57	
25	2.84	3.12	0.78	3.05	1.42	2.42	3.74	3.29	2.52	0.73	0.56	0.53	
26	1.89	2.61	0.73	2.67	3.41	2.62	3.53	3.08	2.35	0.72	0.56	0.51	
27	1.24	2.20	0.71	2.37	3.46	3.16	3.65	3.17	2.31	0.71	0.55	0.51	
28	1.00	1.99	0.67	2.09	2.82	2.79	3.71	3.69	2.22	0.70	0.55	0.52	
29	1.54	2.86	0.67	1.80	2.35	3.93	3.49	3.84	2.04	0.68		0.52	
30	3.25	3.29	0.67	1.62	2.18	4.09	3.13	3.54	1.85	0.67		0.57	
31		2.73		1.63	2.19		3.01		1.74	0.65		0.52	
MEAN	1.32	2.02	1.43	2.09	1.46	2.59	3.21	3.50	2.67	0.98	0.60	0.52	
MAX	3.40	4.06	3.30	4.21	3.46	4.09	3.95	4.31	4.40	1.61	0.67	0.64	4.40
MIN	0.48	0.73	0.67	0.64	0.74	1.42	2.14	2.11	1.71	0.65	0.55	0.47	0.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.48 M (A.D), AT 6.00 HOURS, ON DEC 16, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 7.29 M (A.D)
RIGHT BANK ELEVATION 7.32 M (A.D), DRAINAGE AREA 256 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	8.05	5.58	1.32	3.86	7.08	19.70	9.28	10.10	3.38	1.34	1.08	
2	1.04	5.48	5.62	1.28	3.59	7.49	14.24	8.92	8.25	3.18	1.30	1.06	
3	1.10	4.13	4.19	1.46	2.60	8.92	5.73	7.40	7.58	3.00	1.30	1.06	
4	1.14	2.62	3.50	6.94	2.32	14.60	5.09	6.63	7.22	2.85	1.26	1.06	
5	1.06	1.94	2.88	6.01	2.34	14.60	14.24	6.25	6.17	2.73	1.26	1.04	
6	1.04	1.70	2.93	5.30	2.14	13.20	13.30	4.98	5.30	2.65	1.24	1.04	
7	1.08	1.70	2.78	4.07	1.88	13.40	10.24	7.31	4.84	2.40	1.22	1.02	
8	1.24	2.28	2.36	3.18	1.66	11.92	8.30	9.96	4.81	2.32	1.22	1.02	
9	1.08	1.98	2.12	2.48	1.80	9.34	8.80	25.70	4.67	2.18	1.22	1.02	
10	1.12	1.60	2.00	2.26	2.08	7.35	9.22	29.20	6.37	2.10	1.22	1.00	
11	1.12	1.56	3.18	3.65	1.98	5.93	9.68	20.90	6.85	2.04	1.20	1.00	
12	1.04	1.46	6.77	2.93	2.08	5.06	9.04	38.21	5.34	2.00	1.20	1.02	
13	0.98	1.78	10.80	2.24	1.82	4.25	7.31	29.70	4.46	2.00	1.20	1.02	
14	0.96	1.78	7.40	1.92	1.58	3.56	6.09	23.20	3.68	1.98	1.20	1.00	
15	1.10	2.08	5.09	1.72	1.96	3.30	8.65	23.20	9.89	1.88	1.20	1.00	
16	1.54	2.54	4.50	1.60	2.54	3.28	8.45	27.20	45.50	1.80	1.20	0.98	
17	2.18	2.78	3.83	3.44	5.93	2.90	10.73	18.50	21.60	1.76	1.20	0.96	
18	2.06	2.80	2.98	6.94	4.32	3.15	10.73	14.60	15.56	1.74	1.18	0.96	
19	4.95	8.00	2.32	27.20	2.50	4.36	8.50	12.40	14.36	1.70	1.16	0.94	
20	7.17	23.60	2.02	30.92	1.76	4.84	7.85	16.04	13.00	1.66	1.16	0.94	
21	10.88	17.60	1.86	23.60	1.58	5.37	11.84	15.24	10.73	1.60	1.16	0.98	
22	11.60	15.56	1.70	19.40	1.52	6.05	11.52	14.60	9.04	1.58	1.14	1.22	
23	7.58	13.40	1.82	15.08	1.56	5.09	11.60	14.00	8.00	1.50	1.14	1.28	
24	6.50	11.36	1.80	11.68	1.48	3.41	18.80	12.08	7.26	1.48	1.12	1.14	
25	8.00	9.54	1.56	9.10	2.90	6.13	15.24	10.73	6.54	1.46	1.12	1.06	
26	4.22	6.94	1.46	7.22	11.68	6.99	12.70	9.28	5.85	1.44	1.12	1.02	
27	2.48	5.30	1.42	5.93	12.08	9.82	14.00	9.89	5.69	1.42	1.10	1.02	
28	2.00	4.57	1.34	4.92	7.90	7.76	14.76	14.48	5.37	1.40	1.10	1.04	
29	3.20	8.10	1.34	3.95	5.85	19.10	12.32	17.00	4.74	1.36		1.04	
30	10.45	10.73	1.34	3.41	5.23	24.80	9.61	12.80	4.10	1.34		1.14	
31		7.49		3.44	5.27		8.86		3.77	1.30		1.04	
TOTAL	100.99	190.45	98.49	224.59	107.79	243.05	337.14	469.68	276.64	61.23	33.48	32.20	2175.73 CMSDAY
MEAN	3.37	6.14	3.28	7.24	3.48	8.10	10.88	15.66	8.92	1.98	1.20	1.04	5.96 CMS
MAX	11.60	23.60	10.80	30.92	12.08	24.80	19.70	38.21	45.50	3.38	1.34	1.28	45.50 CMS
MIN	0.96	1.46	1.34	1.28	1.48	2.90	5.09	4.98	3.68	1.30	1.10	0.94	0.94 CMS
RUNOFF	8.726	16.455	8.510	19.405	9.313	21.000	29.129	40.580	23.902	5.290	2.893	2.782	187.983 MCM

MOMENTARY PEAK 55.26 CMS, AT 4.48 M (A.D), AT 6.00 HOURS, ON DEC 16, 1982

RUNOFF YIELD 23.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 215.86 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

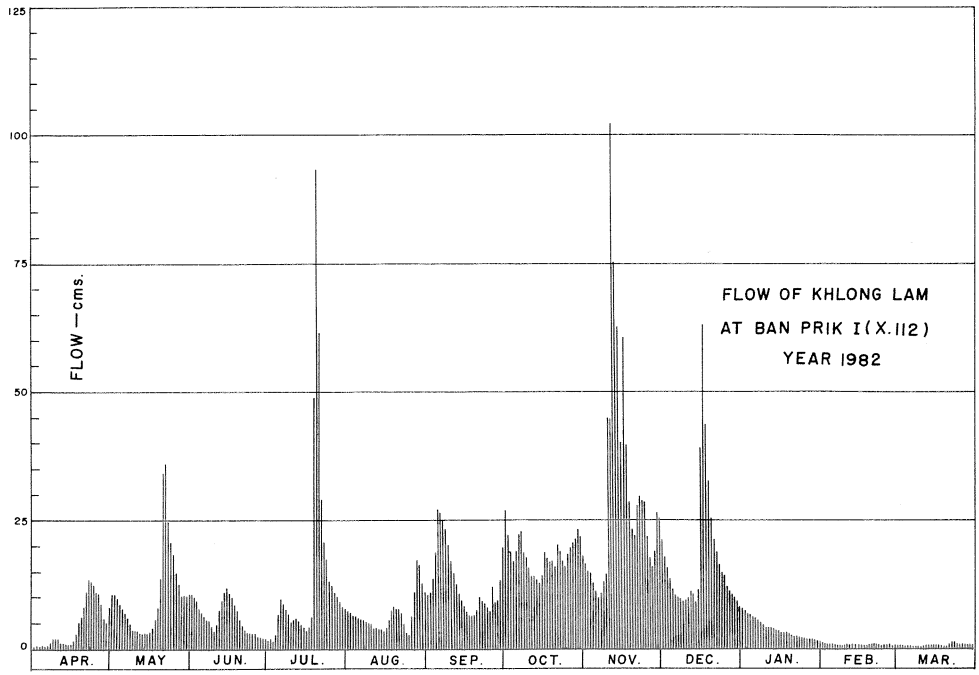
KHLONG LAM AT BAN PRIK (1), SONGKHLA (X.112)

LOCATION	LAT. 6°-42'-11" N., LONG. 100°-26'-10" E., ON RIGHT BANK AT BAN PRIK (1), AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	493 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 10 METERS FROM THE STAFF GAGE.
ELEVATION	+5.541 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.28 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 73 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.17	4.34	4.27	1.77	3.58	4.30	5.82	5.14	5.47	3.60	1.64	1.19	
2	1.14	4.20	4.12	1.73	3.54	4.42	5.57	5.00	5.24	3.44	1.62	1.18	
3	1.13	4.09	3.83	1.80	3.20	4.95	5.32	4.87	4.98	3.30	1.58	1.17	
4	1.12	3.90	3.58	2.68	3.10	5.52	5.25	4.73	4.73	3.20	1.57	1.14	
5	1.11	3.73	3.32	3.71	3.04	5.81	5.42	4.49	4.47	3.12	1.54	1.12	
6	1.20	3.25	3.07	4.05	3.00	5.78	5.68	4.29	4.22	3.04	1.51	1.11	
7	1.38	2.70	2.97	3.86	2.77	5.71	5.64	4.39	4.07	2.93	1.50	1.10	
8	1.95	2.52	2.82	3.66	2.61	5.66	5.40	4.73	4.00	2.86	1.47	1.09	
9	1.99	2.49	2.57	3.34	2.53	5.46	5.35	5.31	3.95	2.76	1.46	1.09	
10	1.71	2.50	2.46	2.93	2.66	5.25	5.06	6.35	4.09	2.66	1.45	1.08	
11	1.35	2.32	2.82	3.03	2.73	4.93	4.93	6.22	4.32	2.57	1.45	1.08	
12	1.23	2.08	3.62	3.13	2.76	4.55	4.89	6.52	4.34	2.50	1.44	1.09	
13	1.17	2.19	4.15	3.09	2.79	4.25	4.83	6.43	4.11	2.46	1.44	1.13	
14	1.11	2.15	4.50	2.79	2.57	3.97	4.78	6.30	3.83	2.38	1.42	1.17	
15	1.06	2.11	4.44	2.58	2.44	3.70	4.82	6.15	4.51	2.32	1.41	1.10	
16	2.03	2.37	4.24	2.44	2.76	3.53	4.99	6.37	6.31	2.28	1.39	1.05	
17	2.11	2.64	4.08	2.70	3.40	3.37	5.39	6.14	6.38	2.21	1.37	1.02	
18	2.97	2.85	3.79	3.66	3.81	3.25	5.29	5.91	6.08	2.16	1.34	1.01	
19	3.44	3.79	3.35	6.11	3.74	3.36	5.22	5.68	6.00	2.11	1.33	0.98	
20	3.66	5.00	2.90	6.49	3.59	3.76	5.15	5.60	5.77	2.05	1.32	0.98	
21	4.63	6.04	2.59	6.32	3.54	4.05	5.46	5.89	5.58	2.01	1.31	1.25	
22	4.75	6.07	2.40	6.20	3.11	4.02	5.31	5.92	5.36	1.98	1.31	1.46	
23	4.62	5.73	2.27	5.99	2.48	3.84	5.18	5.91	5.11	1.97	1.30	1.56	
24	4.53	5.52	2.20	5.73	2.15	3.65	5.11	5.91	4.88	1.92	1.28	1.34	
25	4.31	5.20	2.14	5.44	2.32	3.46	5.37	5.55	4.70	1.89	1.24	1.34	
26	4.15	4.84	2.08	5.10	3.99	4.64	5.44	5.35	4.50	1.85	1.21	1.22	
27	3.56	4.49	2.00	4.75	4.93	3.89	5.49	5.15	4.35	1.82	1.20	1.12	
28	3.09	4.13	1.94	4.46	5.27	4.15	5.57	5.69	4.25	1.78	1.19	1.08	
29	3.07	4.14	1.85	4.10	4.95	4.93	5.67	5.80	4.10	1.75		1.07	
30	3.78	4.31	1.83	3.76	4.53	5.64	5.53	5.76	3.94	1.73		1.18	
31		4.29		3.55	4.39		5.30		3.77	1.68		1.19	
MEAN	2.48	3.74	3.07	3.90	3.30	4.46	5.30	5.59	4.76	2.40	1.40	1.15	
MAX	4.75	6.07	4.50	6.49	5.27	5.81	5.82	6.52	6.38	3.60	1.64	1.56	6.52
MIN	1.06	2.08	1.83	1.73	2.15	3.25	4.78	4.29	3.77	1.68	1.19	0.98	0.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.52 M (A.D), AT 9.00 HOURS, ON NOV 12, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.12 M (A.D)
LEFT BANK ELEVATION 6.45 M (A.D)
RIGHT BANK ELEVATION 6.27 M (A.D), DRAINAGE AREA 493 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	10.93	10.61	1.63	7.62	10.75	27.10	16.46	20.12	7.70	1.30	0.49	
2	0.44	10.30	9.94	1.53	7.46	11.31	21.55	15.30	17.40	7.06	1.25	0.48	
3	0.43	9.81	8.64	1.70	6.10	14.90	18.25	14.26	15.14	6.50	1.16	0.47	
4	0.42	8.95	7.62	4.28	5.75	20.80	17.50	13.88	13.88	6.10	1.14	0.44	
5	0.41	8.22	6.58	8.14	5.54	26.80	19.50	11.69	11.58	5.82	1.08	0.42	
6	0.50	6.30	5.64	9.63	5.40	26.00	23.60	10.71	10.39	5.54	1.02	0.41	
7	0.77	4.35	5.30	8.77	4.60	24.25	22.80	11.15	9.72	5.16	1.00	0.40	
8	2.08	3.76	4.77	7.94	4.03	23.20	19.25	13.88	9.40	4.91	0.94	0.39	
9	2.18	3.67	3.91	6.66	3.79	20.00	18.62	18.12	9.18	4.56	0.92	0.39	
10	1.48	3.70	3.58	5.16	4.21	17.50	15.78	59.00	9.81	4.21	0.90	0.38	
11	0.73	3.16	4.77	5.51	4.46	14.74	14.74	45.60	10.84	3.91	0.90	0.38	
12	0.54	2.44	7.78	5.86	4.56	12.00	14.42	102.80	10.93	3.70	0.88	0.39	
13	0.47	2.77	10.07	5.71	4.67	10.52	13.94	75.00	9.90	3.58	0.88	0.43	
14	0.41	2.65	11.75	4.67	3.91	9.27	13.75	52.00	8.64	3.34	0.84	0.47	
15	0.36	2.53	11.42	3.94	3.52	8.10	13.86	40.75	11.80	3.16	0.82	0.40	
16	2.29	3.31	10.48	3.52	4.56	7.42	15.22	61.80	53.40	3.04	0.79	0.35	
17	2.53	4.14	9.76	4.35	6.90	6.78	19.12	40.10	63.20	2.83	0.76	0.32	
18	5.30	4.88	8.46	7.94	8.55	6.30	17.90	29.85	36.60	2.68	0.71	0.31	
19	7.06	8.46	6.70	38.15	8.26	6.74	17.20	23.60	33.00	2.53	0.70	0.28	
20	7.94	15.30	5.05	93.00	7.66	8.34	16.55	22.00	25.75	2.35	0.68	0.28	
21	12.76	34.80	3.97	54.80	7.46	9.63	20.00	29.20	21.70	2.23	0.66	0.58	
22	13.82	36.15	3.40	44.00	5.78	9.49	18.12	30.20	18.75	2.15	0.66	0.92	
23	12.59	24.75	3.01	32.65	3.64	8.68	16.82	29.85	16.19	2.13	0.65	1.12	
24	11.90	20.80	2.80	24.75	2.65	7.90	16.19	29.85	14.34	2.00	0.62	0.71	
25	10.79	17.00	2.62	19.75	3.16	7.14	18.87	21.25	13.95	1.93	0.56	0.71	
26	10.07	14.02	2.44	16.10	9.35	12.93	19.75	18.62	11.75	1.83	0.52	0.53	
27	7.54	11.69	2.20	13.82	14.74	8.91	20.37	16.55	10.97	1.75	0.50	0.42	
28	5.71	9.99	2.05	11.53	17.70	10.07	21.55	23.80	10.52	1.65	0.49	0.38	
29	5.64	10.03	1.83	9.85	14.90	14.74	23.40	26.50	9.85	1.58		0.37	
30	8.42	10.79	1.78	8.34	11.90	22.80	20.95	25.50	9.13	1.53		0.48	
31		10.71		7.50	11.15		18.00		8.38	1.40		0.49	
TOTAL	136.05	320.36	178.93	471.18	213.98	398.01	574.67	929.27	536.21	108.86	23.33	14.59	3905.44 CMSDAY
MEAN	4.54	10.33	5.96	15.20	6.90	13.27	18.54	30.98	17.30	3.51	0.83	0.47	10.70 CMS
MAX	13.82	36.15	11.75	93.00	17.70	26.80	27.10	102.80	63.20	7.70	1.30	1.12	102.80 CMS
MIN	0.36	2.44	1.78	1.53	2.65	6.30	13.75	10.71	8.38	1.40	0.49	0.28	0.28 CMS
RUNOFF	11.755	27.679	15.460	40.710	18.488	34.388	49.651	80.289	46.329	9.406	2.016	1.261	337.430 MCM

MOMENTARY PEAK 102.80 CMS, AT 6.52 M (A.D), AT 9.00 HOURS, ON NOV 12, 1982

RUNOFF YIELD 21.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 208.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

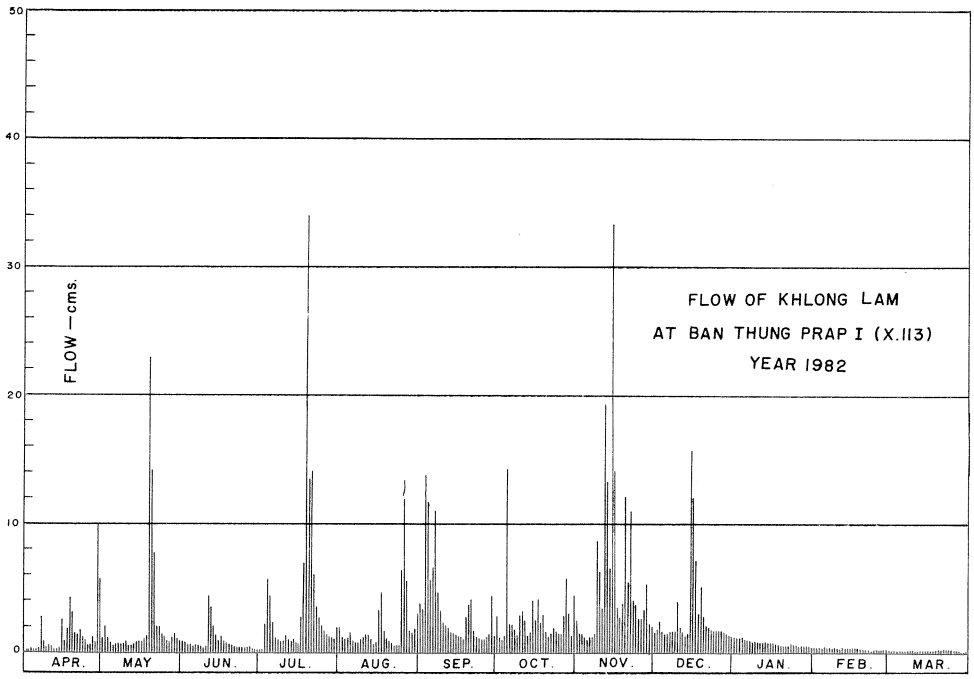
KHLONG LAM AT BAN THUNG PRAP (1), SONGKHLA (X.113)

LOCATION	LAT. 6°-37'-59" N., LONG. 100°-23'-46" E., ON RIGHT BANK AT BAN THUNG PRAP (I), AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	129 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE GAGE OBSERVER'S HOUSE.
ELEVATION	+7.140 M.(A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.32	1.62	1.59	1.26	2.10	2.74	2.47	2.29	2.10	1.79	1.38	1.24	
2	1.24	2.14	1.62	1.26	1.81	2.59	1.85	1.98	2.02	1.76	1.37	1.23	
3	1.16	1.68	1.52	1.85	1.73	4.14	1.72	1.87	2.33	1.74	1.37	1.23	
4	1.13	1.50	1.49	3.14	1.73	3.99	1.97	1.88	2.11	1.72	1.36	1.22	
5	1.27	1.44	1.45	2.70	2.02	3.07	4.17	1.79	1.98	1.70	1.35	1.22	
6	1.23	1.50	1.54	2.23	1.69	3.43	2.21	1.80	1.92	1.68	1.35	1.21	
7	2.38	1.53	1.48	1.90	1.64	3.89	2.26	1.83	1.91	1.66	1.34	1.21	
8	1.44	1.56	1.42	1.68	1.63	3.01	2.00	1.85	1.95	1.65	1.34	1.20	
9	1.34	1.50	1.40	1.63	1.79	2.48	1.90	3.65	2.03	1.62	1.33	1.20	
10	1.52	1.60	1.42	1.67	1.82	2.28	2.49	2.88	2.77	1.61	1.33	1.20	
11	1.34	1.42	2.87	1.93	1.87	2.18	2.63	2.66	2.08	1.60	1.32	1.19	
12	1.28	1.39	2.41	1.83	1.94	2.10	2.24	4.52	1.91	1.60	1.32	1.19	
13	1.23	1.43	2.05	1.61	1.69	2.02	1.90	4.03	1.81	1.59	1.31	1.22	
14	1.18	1.43	1.75	1.76	1.59	1.95	2.12	3.31	2.03	1.57	1.31	1.20	
15	2.39	1.60	1.64	1.57	1.56	1.90	2.80	5.11	4.29	1.56	1.30	1.19	
16	1.50	1.54	1.93	1.55	2.71	1.88	2.33	3.60	3.96	1.54	1.30	1.19	
17	1.88	1.62	1.60	2.59	2.91	1.86	2.84	2.69	3.35	1.53	1.29	1.18	
18	2.84	1.81	1.53	3.50	1.83	2.13	2.27	2.40	2.45	1.52	1.29	1.18	
19	2.74	4.72	1.47	5.13	1.68	2.54	2.49	2.81	3.01	1.50	1.29	1.18	
20	1.85	4.24	1.44	4.11	1.60	2.73	2.05	4.00	2.36	1.49	1.31	1.23	
21	1.90	3.20	1.41	4.17	1.57	2.58	1.86	3.14	2.18	1.48	1.29	1.28	
22	2.07	2.19	1.39	3.21	1.54	2.00	2.00	3.90	2.12	1.47	1.29	1.22	
23	1.74	2.15	1.47	2.53	1.52	1.86	2.13	2.74	2.09	1.46	1.28	1.25	
24	1.60	1.90	1.42	2.26	1.50	1.76	2.02	2.72	2.05	1.45	1.27	1.21	
25	1.50	1.76	1.37	2.11	3.52	1.75	1.90	2.35	1.99	1.44	1.27	1.20	
26	1.39	1.67	1.33	2.01	4.11	1.80	2.01	2.33	1.95	1.43	1.26	1.19	
27	1.76	1.65	1.31	1.94	2.71	1.80	2.79	2.48	2.04	1.42	1.25	1.18	
28	1.49	1.79	1.29	1.87	1.98	1.95	3.19	3.09	1.95	1.41	1.25	1.18	
29	3.77	2.02	1.29	1.82	2.02	2.89	2.15	2.31	1.89	1.41		1.17	
30	2.22	1.74	1.28	1.80	2.16	1.90	1.92	2.15	1.86	1.40		1.17	
31		1.60		2.18	2.49		2.89		1.83	1.39		1.20	
MEAN	1.72	1.90	1.57	2.28	2.01	2.44	2.31	2.81	2.27	1.55	1.31	1.21	
MAX	3.77	4.72	2.87	5.13	4.11	4.14	4.17	5.11	4.29	1.79	1.38	1.28	5.13
MIN	1.13	1.39	1.28	1.26	1.50	1.75	1.72	1.79	1.81	1.39	1.25	1.17	1.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.46 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.50 M (A.D)
LEFT BANK ELEVATION 8.40 M (A.D)
RIGHT BANK ELEVATION 8.45 M (A.D), DRAINAGE AREA 129 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.84	0.78	0.16	1.90	3.96	3.01	2.47	1.90	1.18	0.36	0.14	
2	0.14	2.02	0.84	0.16	1.22	3.41	1.30	1.56	1.66	1.12	0.34	0.13	
3	0.08	0.96	0.64	1.30	1.06	13.82	1.04	1.34	2.59	1.08	0.34	0.13	
4	0.06	0.60	0.58	5.70	1.06	12.09	1.54	1.36	1.93	1.04	0.32	0.12	
5	0.17	0.48	0.50	3.80	1.66	5.37	14.21	1.18	1.56	1.00	0.30	0.12	
6	0.13	0.60	0.68	2.29	0.98	7.28	2.23	1.20	1.44	0.96	0.30	0.11	
7	2.74	0.66	0.56	1.40	0.88	11.00	2.38	1.26	1.42	0.92	0.28	0.11	
8	0.48	0.72	0.44	0.96	0.86	5.09	1.60	1.30	1.50	0.90	0.28	0.10	
9	0.28	0.60	0.40	0.86	1.18	3.04	1.40	8.80	1.69	0.84	0.26	0.10	
10	0.64	0.80	0.44	0.94	1.24	2.44	3.07	4.52	4.08	0.82	0.26	0.10	
11	0.28	0.44	4.48	1.46	1.34	2.14	3.56	3.66	1.84	0.80	0.24	0.10	
12	0.18	0.38	2.83	1.26	1.48	1.90	2.32	19.36	1.42	0.80	0.24	0.10	
13	0.13	0.46	1.75	0.82	0.98	1.66	1.40	12.53	1.22	0.78	0.22	0.12	
14	0.09	0.46	1.10	1.12	0.78	1.50	1.96	6.56	1.69	0.74	0.22	0.10	
15	2.77	0.80	0.88	0.74	0.72	1.40	4.20	33.36	15.77	0.72	0.20	0.10	
16	0.60	0.68	1.46	0.70	3.84	1.36	2.59	8.40	11.76	0.68	0.20	0.10	
17	1.36	0.84	0.80	3.41	4.65	1.32	4.36	3.77	6.80	0.66	0.19	0.09	
18	4.36	1.22	0.66	7.70	1.26	1.99	2.41	2.80	2.95	0.64	0.19	0.09	
19	3.96	23.12	0.54	34.08	0.96	3.24	3.07	4.24	5.09	0.60	0.19	0.09	
20	1.30	15.12	0.48	13.43	0.80	3.92	1.75	12.20	2.68	0.58	0.22	0.13	
21	1.40	6.00	0.42	14.21	0.74	3.38	1.32	5.70	2.14	0.56	0.19	0.18	
22	1.81	2.17	0.38	6.05	0.68	1.60	1.60	11.10	1.96	0.54	0.19	0.12	
23	1.08	2.05	0.54	3.20	0.64	1.32	1.99	3.96	1.87	0.52	0.18	0.15	
24	0.80	1.40	0.44	2.38	0.60	1.12	1.66	3.88	1.75	0.50	0.17	0.11	
25	0.60	1.12	0.34	1.93	7.84	1.10	1.40	2.65	1.58	0.48	0.17	0.10	
26	0.38	0.94	0.26	1.63	13.43	1.20	1.63	2.59	1.50	0.46	0.16	0.10	
27	1.12	0.90	0.22	1.48	3.84	1.20	4.16	3.04	1.72	0.44	0.15	0.09	
28	0.58	1.18	0.19	1.34	1.56	1.50	5.95	5.46	1.50	0.42	0.15	0.09	
29	9.83	1.66	0.19	1.24	1.66	4.56	2.05	2.53	1.38	0.42		0.08	
30	2.26	1.08	0.18	1.20	2.08	1.40	1.44	2.05	1.32	0.40		0.08	
31		0.80		2.14	3.07		4.56		1.26	0.38		0.10	
TOTAL	39.85	71.10	24.00	119.09	64.99	106.31	87.16	174.83	88.97	21.98	6.51	3.38	808.17 CMSDAY
MEAN	1.33	2.29	0.80	3.84	2.10	3.54	2.81	5.83	2.87	0.71	0.23	0.11	2.21 CMS
MAX	9.83	23.12	4.48	34.08	13.43	13.82	14.21	33.36	15.77	1.18	0.36	0.18	34.08 CMS
MIN	0.06	0.38	0.18	0.16	0.60	1.10	1.04	1.18	1.22	0.38	0.15	0.08	0.06 CMS
RUNOFF	3.443	6.143	2.074	10.289	5.615	9.185	7.531	15.105	7.687	1.899	0.562	0.292	69.826 MCM

MOMENTARY PEAK 49.68 CMS, AT 5.46 M (A.D), AT 6.00 HOURS, ON JUL 19, 1982
RUNOFF YIELD 17.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 385.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

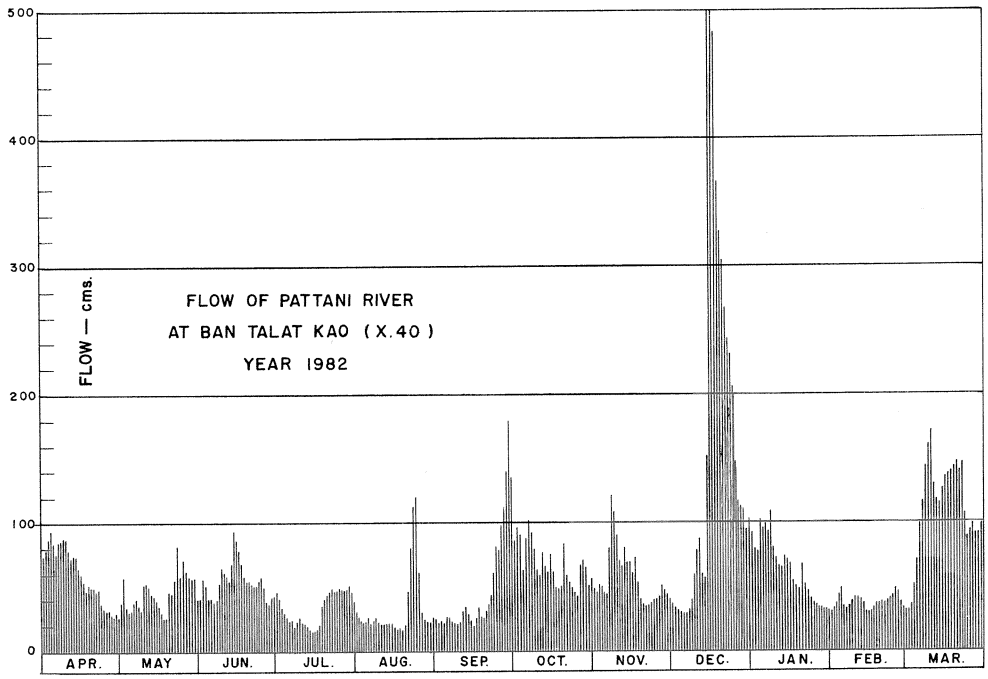
PATTANI RIVER AT BAN TALAT KAO, YALA (X.40)

LOCATION	LAT. 6°-34'-03" N., LONG. 101°-17'-40" E., ON RIGHT BANK ABOUT 500 METERS DOWNSTREAM FROM RAILWAY BRIDGE, AMPHOE MUANG, YALA.
DRAINAGE AREA	3,295 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+9.60 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 5 METERS UPSTREAM FROM THE TOP OF STAFF GAGE.
ELEVATION	+16.134 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1964 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1964-1975
RATED BY FLOAT	-
RATED BY CURRENT METER	1964-1975
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 2,198 DISCHARGE MEASUREMENTS MADE DURING 1966-1975.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.54	10.82	10.94	11.09	10.76	10.66	11.68	11.10	10.92	11.75	10.80	10.78	
2	11.59	11.25	11.22	10.90	10.63	10.57	11.77	11.08	10.87	11.59	10.80	10.78	
3	11.69	10.87	11.20	10.74	10.63	10.63	11.73	11.15	10.81	11.56	10.93	10.91	
4	11.76	10.75	10.96	10.70	10.58	10.59	11.34	11.13	10.78	11.86	10.88	11.22	
5	11.63	10.72	10.96	10.63	10.66	10.69	11.63	11.07	10.74	11.78	11.10	11.57	
6	11.52	10.84	10.96	10.57	10.58	10.66	11.76	11.03	10.71	11.82	10.93	11.84	
7	11.64	10.96	10.87	10.51	10.61	10.63	11.84	11.65	10.71	11.74	10.80	12.04	
8	11.65	10.90	10.93	10.60	10.66	10.57	11.66	12.07	10.91	11.94	10.89	12.29	
9	11.69	10.79	11.37	10.68	10.61	10.57	11.57	11.84	10.96	11.61	10.98	12.48	
10	11.60	11.14	11.14	10.61	10.53	10.61	11.36	11.64	11.47	11.56	10.98	12.58	
11	11.53	11.18	11.27	10.59	10.55	10.80	11.28	11.46	11.67	11.48	10.98	12.34	
12	11.45	11.14	11.21	10.55	10.58	10.84	11.55	11.40	11.47	11.38	10.95	12.12	
13	11.52	11.00	11.38	10.50	10.55	10.75	11.45	11.61	11.26	11.49	10.95	12.01	
14	11.50	10.98	11.77	10.47	10.55	10.63	11.31	11.45	11.22	11.51	10.75	11.99	
15	11.34	10.96	11.68	10.46	10.55	10.56	11.54	11.45	13.14	11.44	10.74	12.09	
16	11.26	10.85	11.59	10.45	10.57	10.60	10.72	11.29	15.25	11.40	10.81	12.21	
17	11.21	10.71	11.37	10.48	10.48	10.84	11.12	11.51	15.40	11.17	10.88	12.24	
18	11.06	10.65	11.25	10.84	10.48	10.74	11.10	11.14	14.83	11.11	10.90	12.27	
19	11.16	10.66	11.19	10.94	10.47	10.64	11.12	10.99	14.20	11.13	10.92	12.28	
20	11.07	11.07	11.21	11.03	10.91	10.78	11.63	10.93	13.98	11.44	10.93	12.33	
21	11.11	11.03	11.15	11.08	11.15	10.85	11.29	10.87	13.72	11.19	10.86	12.27	
22	11.02	11.29	11.12	11.09	11.61	11.03	11.21	10.85	13.36	11.16	10.93	12.32	
23	11.11	11.60	11.17	11.08	11.99	11.25	11.13	10.91	13.21	11.00	10.94	11.98	
24	10.86	11.25	11.24	11.08	12.03	11.60	11.04	10.94	13.12	10.96	11.02	11.84	
25	10.78	11.44	11.29	11.13	11.48	11.58	11.03	10.97	12.85	10.87	11.09	11.68	
26	10.78	11.48	11.03	11.09	10.81	11.79	11.17	11.01	12.14	10.84	11.17	11.74	
27	10.78	11.26	10.87	11.07	10.64	12.00	11.45	11.16	11.99	10.82	10.98	11.78	
28	10.68	11.21	10.93	11.11	10.61	12.17	11.48	11.08	11.96	10.81	10.86	11.71	
29	10.73	11.21	11.03	11.19	10.64	12.65	11.33	11.05	11.96	10.81		11.72	
30	10.68	11.28	11.03	11.02	10.60	12.36	11.12	10.95	11.75	10.80		11.82	
31		10.95		10.91	10.67		11.25		11.86	10.76		11.85	
MEAN	11.26	11.04	11.18	10.81	10.78	11.02	11.38	11.23	12.23	11.32	10.92	11.91	
MAX	11.76	11.60	11.77	11.19	12.03	12.65	11.84	12.07	15.40	11.94	11.17	12.58	15.40
MIN	10.68	10.65	10.87	10.45	10.47	10.56	10.72	10.85	10.71	10.76	10.74	10.78	10.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.60 M (MSL), AT 22.00 HOURS, ON DEC 16, 1982
ZERO GAGE AT BOTTOM ELEVATION 9.60 M (MSL), RIVER BED 9.23 M (MSL)
LEFT BANK ELEVATION 16.14 M (MSL)
RIGHT BANK ELEVATION 15.78 M (MSL), DRAINAGE AREA 3295 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	77.20	34.00	40.00	48.40	31.00	26.00	88.40	49.00	39.00	94.50	33.00	32.00	
2	81.20	58.00	56.20	38.00	24.50	21.80	96.30	47.80	36.50	81.20	33.00	32.00	
3	89.20	36.50	55.00	30.00	24.50	24.50	92.70	52.00	33.50	78.80	39.50	38.50	
4	95.40	30.50	41.00	28.00	22.20	22.60	63.40	50.80	32.00	104.40	37.00	56.20	
5	84.40	29.00	41.00	24.50	26.00	27.50	84.40	47.20	30.00	97.20	49.00	79.60	
6	75.60	35.00	41.00	21.80	22.20	26.00	95.40	44.80	28.50	100.80	39.50	102.60	
7	85.20	41.00	36.50	19.40	23.50	24.50	102.60	86.00	28.50	93.60	33.00	120.60	
8	86.00	38.00	39.50	23.00	26.00	21.80	86.80	123.30	38.50	111.60	37.50	143.10	
9	89.20	32.50	65.20	27.00	23.50	21.80	79.60	102.60	41.00	82.80	42.00	160.20	
10	82.00	51.40	51.40	23.50	20.20	23.50	64.60	85.20	71.90	78.80	42.00	170.00	
11	76.40	53.80	59.20	22.60	21.00	33.00	59.80	71.20	87.60	72.60	42.00	147.60	
12	70.50	51.40	55.60	21.00	22.20	35.00	78.00	67.00	71.90	65.80	40.50	127.80	
13	75.60	43.00	65.80	19.00	21.00	30.50	70.50	82.80	58.60	73.30	40.50	117.90	
14	74.00	42.00	96.30	17.80	21.00	24.50	61.60	70.50	56.20	74.80	30.50	116.10	
15	63.40	41.00	88.40	17.40	21.00	21.40	77.20	70.50	227.40	69.80	30.00	125.10	
16	58.60	35.50	81.20	17.00	21.80	23.00	29.00	60.40	586.00	67.00	33.50	135.90	
17	55.60	28.50	65.20	18.20	18.20	35.00	50.20	74.80	633.00	53.20	37.00	138.60	
18	46.60	25.50	58.00	35.00	18.20	30.00	49.00	51.40	481.30	49.60	38.00	141.30	
19	52.60	26.00	54.40	40.00	17.80	25.00	50.20	42.50	366.00	50.80	39.00	142.20	
20	47.20	47.20	55.60	44.80	38.50	32.00	84.40	39.50	332.20	69.80	39.50	146.70	
21	49.60	44.80	52.00	47.80	52.00	35.50	60.40	36.50	296.60	54.40	36.00	141.30	
22	44.20	60.40	50.20	48.40	82.80	44.80	55.60	35.50	253.20	52.60	39.50	145.80	
23	49.60	82.00	53.20	47.80	116.10	58.00	50.80	38.50	235.20	43.00	40.00	115.20	
24	36.00	58.00	57.40	47.80	119.70	82.00	45.40	40.00	225.20	41.00	44.20	102.60	
25	32.00	69.80	60.40	50.80	72.60	80.40	44.80	41.50	197.00	36.50	48.40	88.40	
26	32.00	72.60	44.80	48.40	33.50	98.10	53.20	43.60	129.60	35.00	53.20	93.60	
27	32.00	58.60	36.50	47.20	25.00	117.00	70.50	52.60	116.10	34.00	42.00	97.20	
28	27.00	55.60	39.50	49.60	23.50	132.30	72.60	47.80	113.40	33.50	36.00	90.90	
29	29.50	55.60	44.80	54.40	25.00	177.00	62.80	46.00	113.40	33.50		91.80	
30	27.00	59.80	44.80	44.20	23.00	149.40	50.20	40.50	94.50	33.00		100.80	
31		40.50		38.50	26.50		58.00		104.40	31.00		103.50	
TOTAL	1824.80	1437.50	1630.10	1061.30	1064.00	1503.90	2088.40	1741.80	5158.20	1997.90	1095.30	3445.10	24048.30 CMSDAY
MEAN	60.83	46.37	54.34	34.24	34.32	50.13	67.37	58.06	166.39	64.45	39.12	111.13	65.89 CMS
MAX	95.40	82.00	96.30	54.40	119.70	177.00	102.60	123.30	633.00	111.60	53.20	170.00	633.00 CMS
MIN	27.00	25.50	36.50	17.00	17.80	21.40	29.00	35.50	28.50	31.00	30.00	32.00	17.00 CMS
RUNOFF	157.663	124.200	140.841	91.696	91.930	129.937	180.438	150.492	445.669	172.619	94.634	297.657	2077.773 MCM

MOMENTARY PEAK 704.00 CMS, AT 15.60 M (MSL), AT 22.00 HOURS, ON DEC 16, 1982

RUNOFF YIELD 20.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 213.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

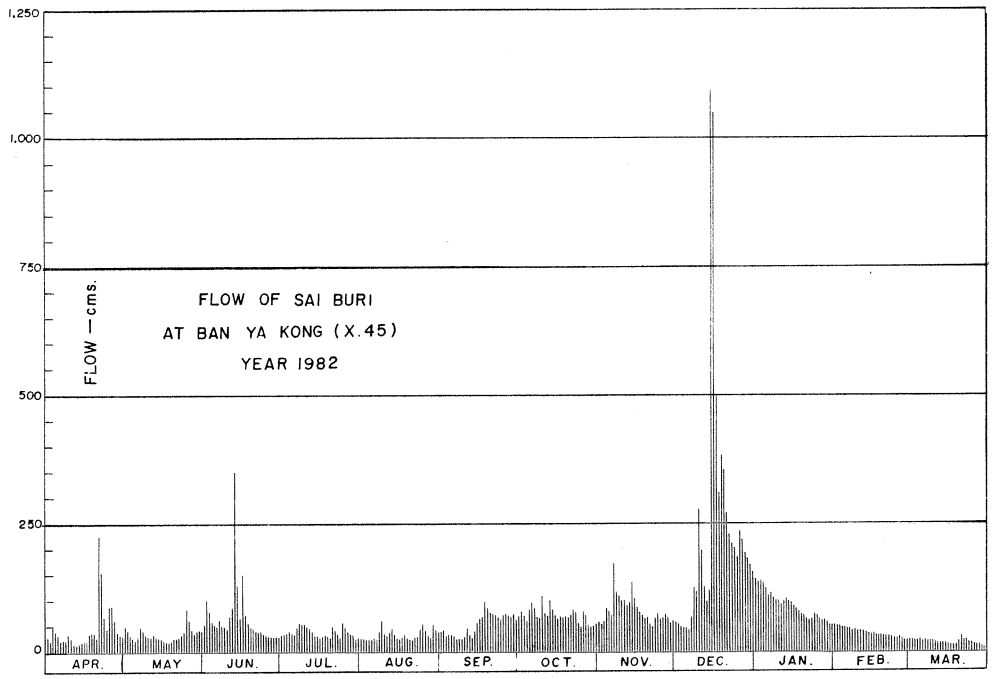
SAI BURI RIVER AT BAN YAKONG, NARATHIWAT (X.45)

LOCATION	LAT. 6°-19′-25″ N., LONG. 100°-30′-31″ E., ON RIGHT BANK ABOUT 7 KILOMETERS FROM AMPHOE RUSO, NARATHIWAT.
DRAINAGE AREA	1,483. SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE AUTOMATIC GAGE BUILDING.
ELEVATION	+8.486 M.(A.D.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1970 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1982 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1982 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 130 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.94	1.23	1.39	1.01	0.92	1.10	1.48	1.34	1.28	2.17	1.23	0.91	
2	0.85	1.05	1.74	1.06	0.93	1.09	1.58	1.28	1.27	2.09	1.22	0.90	
3	1.18	0.95	1.43	1.13	0.92	1.06	1.47	1.38	1.25	2.13	1.20	0.89	
4	1.16	0.92	1.41	1.10	0.89	1.04	1.34	1.61	1.18	2.09	1.18	0.88	
5	0.96	0.87	1.31	1.05	0.91	0.99	1.61	1.55	1.15	1.95	1.16	0.87	
6	0.86	1.08	1.25	1.07	1.04	0.94	1.72	1.49	1.12	1.87	1.15	0.86	
7	0.92	1.16	1.35	1.30	1.03	0.94	1.51	2.36	1.49	1.92	1.13	0.85	
8	0.90	1.03	1.25	1.35	1.28	0.92	1.41	1.89	1.96	1.81	1.11	0.85	
9	1.04	1.00	1.22	1.30	1.33	0.91	1.39	1.86	1.94	1.76	1.10	0.85	
10	0.90	1.00	1.21	1.30	1.13	1.10	1.89	1.69	3.15	1.74	1.09	0.87	
11	0.79	1.02	1.56	1.24	1.00	1.26	1.43	1.72	2.63	1.67	1.08	0.85	
12	0.77	1.05	1.64	1.09	1.14	1.07	1.43	1.64	1.99	1.75	1.06	0.83	
13	0.80	1.01	3.57	1.03	1.09	1.02	1.76	1.80	1.74	1.78	1.05	0.82	
14	0.85	0.92	1.73	1.00	0.98	1.20	1.56	2.08	2.05	1.69	1.05	0.81	
15	0.84	0.89	1.43	0.97	0.94	1.33	1.41	1.68	6.51	1.64	1.04	0.80	
16	0.78	0.86	2.22	0.95	0.93	1.30	1.39	1.53	6.37	1.67	1.04	0.79	
17	1.04	0.84	1.51	1.06	1.01	1.44	1.44	1.52	4.34	1.57	1.02	0.78	
18	1.10	0.81	1.33	1.05	1.06	1.78	1.38	1.44	3.33	1.49	1.01	0.79	
19	1.06	0.85	1.23	0.98	0.95	1.63	1.47	1.39	3.76	1.46	1.00	0.81	
20	0.96	0.92	1.15	1.01	0.92	1.53	1.40	1.38	3.56	1.45	1.01	0.83	
21	2.76	0.96	1.13	1.25	0.92	1.44	1.51	1.32	3.02	1.41	0.99	0.83	
22	1.76	1.02	1.12	1.14	0.99	1.46	1.57	1.30	2.77	1.37	0.98	1.00	
23	1.32	1.03	1.10	1.03	1.10	1.41	1.50	1.47	2.70	1.40	0.96	0.94	
24	1.18	1.15	1.07	1.03	1.24	1.42	1.29	1.51	2.64	1.51	0.94	0.84	
25	1.68	1.62	1.03	1.35	1.31	1.52	1.23	1.38	2.54	1.46	0.94	0.80	
26	1.62	1.21	0.99	1.18	1.12	1.51	1.53	1.44	2.47	1.40	0.94	0.78	
27	1.22	1.11	0.99	1.09	0.99	1.41	1.43	1.50	2.84	1.37	0.93	0.77	
28	1.03	1.07	0.97	1.03	1.03	1.31	1.25	1.47	2.62	1.34	0.92	0.75	
29	1.02	1.14	1.00	0.99	1.36	1.49	1.23	1.37	2.57	1.31		0.74	
30	1.00	1.12	1.02	0.94	1.17	1.32	1.25	1.35	2.50	1.27		0.73	
31		1.11		0.92	1.14		1.33		2.31	1.25		0.73	
MEAN	1.11	1.03	1.38	1.10	1.06	1.26	1.46	1.56	2.61	1.64	1.05	0.83	
MAX	2.76	1.62	3.57	1.35	1.36	1.78	1.89	2.36	6.51	2.17	1.23	1.00	6.51
MIN	0.77	0.81	0.97	0.92	0.89	0.91	1.23	1.28	1.12	1.25	0.92	0.73	0.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.49 M (A.D), AT 18.00 HOURS, ON DEC 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -3.78 M (A.D)
LEFT BANK ELEVATION 7.89 M (A.D)
RIGHT BANK ELEVATION 7.89 M (A.D), DRAINAGE AREA 1483 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	26.20	49.40	64.00	31.80	24.60	39.00	73.00	59.00	53.40	146.25	49.40	23.80	
2	19.00	35.00	99.00	35.80	25.40	38.20	83.00	53.40	52.60	136.25	48.60	23.00	
3	45.40	27.00	68.00	41.40	24.60	35.80	72.00	63.00	51.00	141.25	47.00	22.20	
4	43.80	24.60	66.00	39.00	22.20	34.20	59.00	86.00	45.40	136.25	45.40	21.40	
5	27.80	20.60	56.00	35.00	23.80	30.20	86.00	80.00	43.00	120.00	43.80	20.60	
6	19.80	37.40	51.00	36.60	34.20	26.20	97.00	74.00	40.60	112.00	43.00	19.80	
7	24.60	43.80	60.00	55.00	33.40	26.20	76.00	170.00	74.00	117.00	41.40	19.00	
8	23.00	33.40	51.00	60.00	53.40	24.60	66.00	114.00	121.00	106.00	39.80	19.00	
9	34.20	31.00	48.60	55.00	58.00	23.80	64.00	111.00	119.00	101.00	39.00	19.00	
10	23.00	31.00	47.80	55.00	41.40	39.00	114.00	94.00	282.50	99.00	38.20	20.60	
11	14.20	32.60	81.00	50.20	31.00	51.80	68.00	97.00	204.50	92.00	37.40	19.00	
12	12.60	35.00	89.00	38.20	42.20	36.60	68.00	89.00	124.00	100.00	35.80	17.40	
13	15.00	31.80	349.00	33.40	38.20	32.60	101.00	105.00	99.00	103.00	35.00	16.60	
14	19.00	24.60	98.00	31.00	29.40	47.00	81.00	135.00	131.25	94.00	35.00	15.80	
15	18.20	22.20	68.00	28.60	26.20	58.00	66.00	93.00	1094.00	89.00	34.20	15.00	
16	13.40	19.80	152.50	27.00	25.40	55.00	64.00	78.00	1044.50	92.00	34.20	14.20	
17	34.20	18.20	76.00	35.80	31.80	69.00	69.00	77.00	503.00	82.00	32.60	13.40	
18	39.00	15.80	58.00	35.00	35.80	103.00	63.00	69.00	309.50	74.00	31.80	14.20	
19	35.80	19.00	49.40	29.40	27.00	88.00	72.00	64.00	387.00	71.00	31.00	15.80	
20	27.80	24.60	43.00	31.80	24.60	78.00	65.00	63.00	347.00	70.00	31.80	17.40	
21	224.00	27.80	41.40	51.00	24.60	69.00	76.00	57.00	263.00	66.00	30.20	17.40	
22	101.00	32.60	40.60	42.20	30.20	71.00	82.00	55.00	225.50	62.00	29.40	31.00	
23	57.00	33.40	39.00	33.40	39.00	66.00	75.00	72.00	215.00	65.00	27.80	26.20	
24	45.40	43.00	36.60	33.40	50.20	67.00	54.20	76.00	206.00	76.00	26.20	18.20	
25	93.00	87.00	33.40	60.00	56.00	77.00	49.40	63.00	192.50	71.00	26.20	15.00	
26	87.00	47.80	30.20	45.40	40.60	76.00	78.00	69.00	183.75	65.00	26.20	13.40	
27	48.60	39.80	30.20	38.20	30.20	66.00	68.00	75.00	236.00	62.00	25.40	12.60	
28	33.40	36.60	28.60	33.40	33.40	56.00	51.00	72.00	203.00	59.00	24.60	11.00	
29	32.60	42.20	31.00	30.20	61.00	74.00	49.40	62.00	196.25	56.00		10.20	
30	31.00	40.60	32.60	26.20	44.60	57.00	51.00	60.00	187.50	52.60		9.40	
31		39.80		24.60	42.20		58.00		163.75	51.00		9.40	
TOTAL	1269.00	1047.40	2018.90	1203.00	1104.60	1615.20	2199.00	2435.40	7398.50	2767.60	990.40	541.00	24590.00 CMSDAY
MEAN	42.30	33.79	67.30	38.81	35.63	53.84	70.94	81.18	238.66	89.28	35.37	17.45	67.37 CMS
MAX	224.00	87.00	349.00	60.00	61.00	103.00	114.00	170.00	1094.00	146.25	49.40	31.00	1094.00 CMS
MIN	12.60	15.80	28.60	24.60	22.20	23.80	49.40	53.40	40.60	51.00	24.60	9.40	9.40 CMS
RUNOFF	109.642	90.495	174.433	103.939	95.437	139.553	189.994	210.419	639.230	239.121	85.571	46.742	2124.576 MCM

MOMENTARY PEAK 1549.50 CMS, AT 7.49 M (A.D), AT 18.00 HOURS, ON DEC 15, 1982

RUNOFF YIELD 45.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1044.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

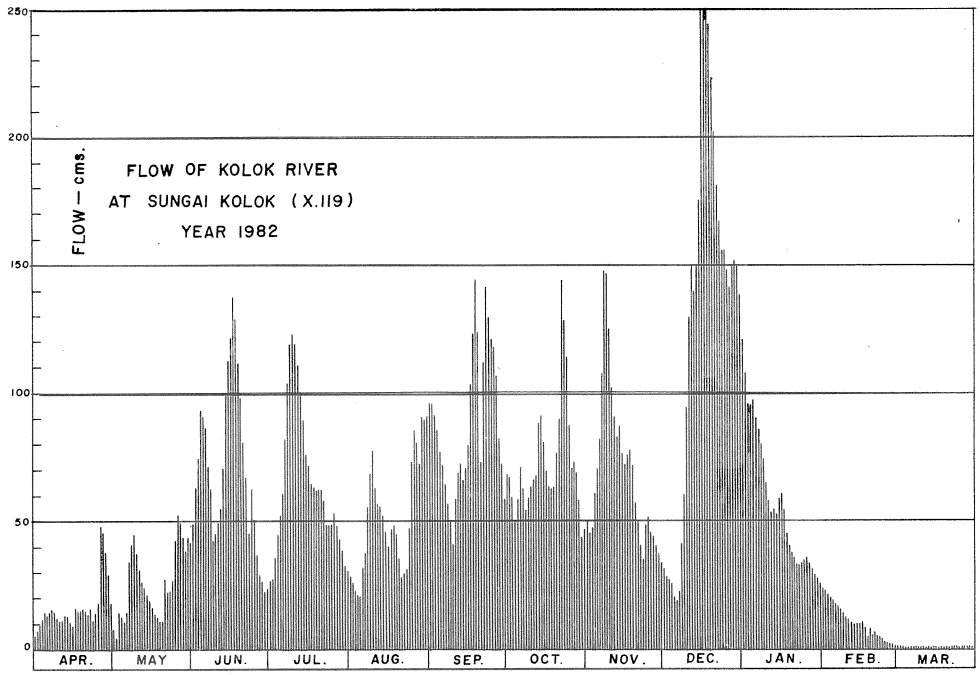
KOLOK RIVER AT SUNGAI KOLOK, NARATHIWAT (X.119)

LOCATION	LAT. 6°-04'-09" N., LONG. 102°-02'-22" E., ON LEFT BANK NEAR THE MUNO SCHOOL, TAMBON MUNO, AMPHOE SUNGAI KOLOK, NARATHIWAT.
DRAINAGE AREA	1,600 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+5.533 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1980 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1981 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE BY SOME SCOURING.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +5.51 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 99 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.14	1.14	2.32	1.76	1.83	3.23	2.69	2.32	1.88	3.61	1.66	0.94	
2	1.23	1.06	2.81	1.80	1.75	3.22	2.66	2.20	1.81	3.28	1.62	0.89	
3	1.31	1.41	2.87	2.08	1.63	3.15	2.48	2.25	1.76	3.20	1.59	0.82	
4	1.41	1.36	3.15	2.28	1.56	3.02	2.33	2.65	1.70	3.21	1.55	0.85	
5	1.37	1.30	3.10	2.40	1.76	2.85	2.53	2.77	1.61	3.24	1.52	0.83	
6	1.39	1.42	2.99	2.58	1.85	2.70	2.74	3.00	1.55	3.11	1.47	0.85	
7	1.42	2.08	2.69	3.08	2.07	2.58	2.56	3.44	1.78	3.05	1.44	0.86	
8	1.36	2.14	2.56	3.52	2.52	2.45	2.41	4.14	2.34	3.01	1.40	0.83	
9	1.32	2.18	2.16	3.71	2.86	2.29	2.52	4.13	2.81	2.76	1.35	0.81	
10	1.29	2.02	2.24	3.72	2.87	2.11	2.62	3.61	3.41	2.59	1.34	0.78	
11	1.33	1.82	2.34	3.59	2.56	2.51	2.66	3.22	4.07	2.47	1.32	0.77	
12	1.37	1.70	2.52	3.47	2.42	2.76	2.68	3.15	4.16	2.39	1.28	0.75	
13	1.31	1.68	3.15	3.28	2.43	2.76	3.12	2.98	3.99	2.43	1.27	0.73	
14	1.25	1.59	3.52	3.07	2.30	2.65	3.13	3.06	3.62	2.39	1.27	0.73	
15	1.22	1.50	3.53	2.85	2.20	2.77	2.86	2.85	4.72	2.52	1.24	0.71	
16	1.44	1.45	3.85	2.71	2.10	3.09	2.71	2.76	5.63	2.55	1.25	0.68	
17	1.40	1.39	3.96	2.61	2.27	3.55	2.58	2.89	5.71	2.45	1.20	0.67	
18	1.43	1.34	3.64	2.59	2.28	3.89	2.58	2.88	5.57	2.23	1.07	0.73	
19	1.45	1.31	3.31	2.55	2.17	4.07	2.61	2.72	5.41	2.12	1.20	0.80	
20	1.40	1.34	3.05	2.56	1.92	3.73	2.92	2.47	5.20	2.03	1.08	0.80	
21	1.39	1.79	2.85	2.56	1.81	2.78	3.11	2.32	4.92	1.98	1.17	0.76	
22	1.45	1.62	2.64	2.51	1.87	3.54	4.07	2.07	4.65	1.92	1.07	0.78	
23	1.32	1.69	2.20	2.28	1.87	4.03	3.97	2.01	4.34	1.92	1.05	0.78	
24	1.44	1.83	2.58	2.28	2.35	3.79	3.46	2.35	4.25	1.95	1.02	0.74	
25	1.52	2.26	2.35	2.33	2.92	3.65	2.98	2.35	4.26	1.98	0.99	0.70	
26	2.27	2.38	2.02	2.38	3.03	3.60	2.74	2.22	4.06	1.96	0.99	0.66	
27	2.21	2.31	1.79	2.25	2.88	3.39	2.79	2.18	4.02	1.91	0.96	0.63	
28	1.92	2.16	1.74	2.15	2.76	2.95	2.66	2.11	4.19	1.86	0.95	0.62	
29	1.74	2.06	1.62	2.04	3.12	2.76	2.37	2.02	4.19	1.82		0.62	
30	1.23	2.18	1.71	1.90	3.10	2.51	2.19	1.93	4.15	1.78		0.61	
31		2.14		1.85	3.19		2.23		3.94	1.71		0.59	
MEAN	1.44	1.73	2.71	2.60	2.33	3.08	2.77	2.70	3.73	2.43	1.26	0.75	
MAX	2.27	2.38	3.96	3.72	3.19	4.07	4.07	4.14	5.71	3.61	1.66	0.94	5.71
MIN	1.14	1.06	1.62	1.76	1.56	2.11	2.19	1.93	1.55	1.71	0.95	0.59	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.73 M (A.D), AT 6.00 HOURS, ON DEC 17, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.87 M (A.D)
LEFT BANK ELEVATION 5.50 M (A.D)
RIGHT BANK ELEVATION 5.74 M (A.D), DRAINAGE AREA 1600 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.50	8.50	50.40	27.10	29.70	96.65	68.50	50.40	31.70	117.55	23.60	4.60	
2	10.75	6.70	74.50	28.50	26.75	96.10	67.00	45.00	28.90	99.40	22.20	3.85	
3	12.75	15.30	77.50	39.70	22.55	92.25	58.00	47.25	27.10	95.00	21.15	2.80	
4	15.30	14.00	92.25	48.60	20.10	85.10	50.85	66.50	25.00	95.55	19.75	3.25	
5	14.25	12.50	89.50	54.00	27.10	76.50	60.50	72.50	21.85	97.20	18.70	2.95	
6	14.75	15.60	83.50	63.00	30.50	69.00	71.00	84.00	19.75	90.05	17.10	3.25	
7	15.60	39.70	68.50	88.40	39.30	63.00	62.00	108.20	27.80	86.75	16.20	3.40	
8	14.00	42.30	62.00	112.60	60.00	56.50	54.50	148.40	51.30	84.55	15.00	2.95	
9	13.00	44.10	43.20	123.05	77.00	49.05	60.00	147.80	74.50	72.00	13.75	2.65	
10	12.25	37.30	46.80	123.60	77.50	40.95	65.00	117.55	106.55	63.50	13.50	2.30	
11	13.25	29.30	51.30	116.45	62.00	59.50	67.00	96.10	144.20	57.50	13.00	2.20	
12	14.25	25.00	60.00	109.85	55.00	72.00	68.00	92.25	149.60	53.55	12.00	2.00	
13	12.75	24.30	92.25	99.40	55.50	72.00	90.60	83.00	139.40	55.50	11.75	1.80	
14	11.25	21.15	112.60	87.85	49.50	66.50	91.15	87.30	118.10	53.55	11.75	1.80	
15	10.50	18.00	113.15	76.50	45.00	72.50	77.00	76.50	187.50	60.00	11.00	1.60	
16	16.20	16.50	131.00	69.50	40.50	88.95	69.50	72.00	260.05	61.50	11.25	1.40	
17	15.00	14.75	137.60	64.50	48.15	114.25	63.00	78.50	266.85	56.50	10.00	1.35	
18	15.90	13.50	119.20	63.50	48.60	133.40	63.00	78.00	254.95	46.35	6.90	1.80	
19	16.50	12.75	101.05	61.50	43.65	144.20	64.50	70.00	241.35	41.40	10.00	2.50	
20	15.00	13.50	86.75	62.00	33.30	124.15	80.00	57.50	224.00	37.70	7.10	2.50	
21	14.75	28.15	76.50	62.00	28.90	73.00	90.05	50.40	202.50	35.70	9.25	2.10	
22	16.50	22.20	66.00	59.50	31.30	113.70	144.20	39.30	182.50	33.30	6.90	2.30	
23	13.00	24.65	45.00	48.60	31.30	141.80	138.20	36.90	161.10	33.30	6.50	2.30	
24	16.20	29.70	63.00	48.60	51.75	127.45	109.30	51.75	155.25	34.50	5.90	1.90	
25	18.70	47.70	51.75	50.85	80.00	119.75	83.00	51.75	155.90	35.70	5.35	1.50	
26	48.15	53.10	37.30	53.10	85.65	117.00	71.00	45.90	143.60	34.90	5.35	1.30	
27	45.45	49.95	28.15	47.25	78.00	105.45	73.50	44.10	141.20	32.90	4.90	1.15	
28	33.30	43.20	26.40	42.75	72.00	81.50	67.00	40.95	151.40	30.90	4.75	1.10	
29	26.40	38.90	22.20	38.10	90.60	72.00	52.65	37.30	151.40	29.30		1.10	
30	10.75	44.10	25.35	32.50	89.50	59.50	44.55	33.70	149.00	27.80		1.05	
31		42.30		30.50	94.45		46.35		136.40	25.35		0.95	
TOTAL	514.95	848.70	2134.70	2033.35	1625.15	2683.70	2270.90	2110.80	4130.70	1778.75	334.60	67.70	20534.00 CMSDAY
MEAN	17.17	27.38	71.16	65.59	52.42	89.46	73.25	70.36	133.25	57.38	11.95	2.18	56.26 CMS
MAX	48.15	53.10	137.60	123.60	94.45	144.20	144.20	148.40	266.85	117.55	23.60	4.60	266.85 CMS
MIN	8.50	6.70	22.20	27.10	20.10	40.95	44.55	33.70	19.75	25.35	4.75	0.95	0.95 CMS
RUNOFF	44.492	73.328	184.438	175.681	140.413	231.872	196.206	182.373	356.893	153.684	28.909	5.849	1774.138 MCM

MOMENTARY PEAK 268.55 CMS, AT 5.73 M (A.D), AT 6.00 HOURS, ON DEC 17, 1982

RUNOFF YIELD 35.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 167.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA EAST COAST

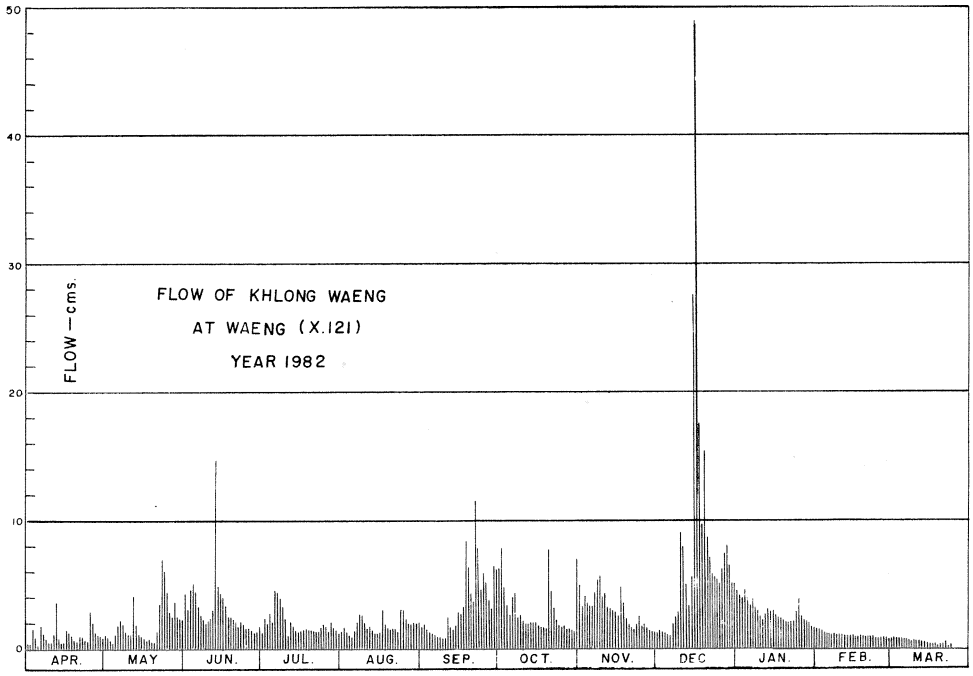
KHLONG WAENG AT WAENG, NARATHIWAT (X.121)

LOCATION	LAT. 5°-55'-26" N., LONG. 101°-53'-14" E., ON RIGHT BANK AT THE BRIDGE OF SUNGAI KOLOK -MALASIA HIGHWAY, AMPHOE WAENG, NARATHIWAT.
DRAINAGE AREA	43 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M-H.D.
LOCATION	ON RIGHT BANK ABOUT 3 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+4.468 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1981 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1981 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE WITH VAIRABLE SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.51	1.59	1.99	1.61	1.62	1.66	2.20	1.98	1.62	2.02	1.67	1.54	
2	1.50	1.55	1.85	1.78	1.69	1.71	2.34	1.86	1.65	1.96	1.66	1.53	
3	1.65	1.53	2.01	1.70	1.62	1.65	2.03	1.96	1.63	1.96	1.65	1.53	
4	1.53	1.54	2.07	1.84	1.59	1.63	1.90	1.92	1.60	2.03	1.64	1.52	
5	1.58	1.64	2.02	1.71	1.58	1.61	1.80	1.88	1.60	1.93	1.63	1.52	
6	1.69	1.72	1.85	2.03	1.68	1.59	2.02	1.88	1.56	1.86	1.62	1.52	
7	1.59	1.75	1.78	1.97	1.75	1.58	1.98	3.46	1.73	1.92	1.62	1.54	
8	1.54	1.67	1.74	1.94	1.83	1.57	1.76	2.23	1.79	1.85	1.60	1.53	
9	1.52	1.61	1.71	1.87	1.80	1.56	1.79	2.03	1.83	1.81	1.60	1.53	
10	1.53	1.58	1.75	1.80	1.71	1.65	1.74	1.94	2.47	1.80	1.59	1.53	
11	1.63	1.59	1.78	1.73	1.67	1.78	1.70	1.99	2.26	1.73	1.58	1.53	
12	1.90	1.96	1.98	1.76	1.70	1.68	1.71	1.86	1.98	1.82	1.58	1.52	
13	1.52	1.62	2.90	1.67	1.64	1.68	1.85	1.85	1.83	1.86	1.57	1.52	
14	1.52	1.59	2.07	1.66	1.62	1.77	1.73	1.84	2.17	1.81	1.58	1.52	
15	1.58	1.58	1.98	1.64	1.62	1.82	1.74	1.82	4.32	1.82	1.58	1.48	
16	1.67	1.55	1.94	1.63	1.63	1.80	1.69	1.79	3.56	1.82	1.57	1.47	
17	1.64	1.54	1.85	1.67	1.85	1.90	1.68	2.03	2.87	1.78	1.57	1.46	
18	1.90	1.53	1.79	1.66	1.68	2.40	1.68	1.85	2.50	1.77	1.56	1.48	
19	1.55	1.55	1.76	1.66	1.66	2.11	1.67	1.73	2.95	1.74	1.57	1.49	
20	1.55	1.64	1.72	1.65	1.67	1.93	2.35	1.71	2.46	1.72	1.57	1.48	
21	1.60	1.63	1.70	1.64	1.66	1.93	1.98	1.67	2.37	1.73	1.56	1.46	
22	1.59	1.62	1.68	1.63	1.67	2.68	1.81	1.66	2.14	1.73	1.57	1.52	
23	1.54	1.96	1.73	1.63	1.63	2.13	1.74	1.71	2.13	1.74	1.57	1.47	
24	1.53	2.25	1.67	1.64	1.87	2.00	1.68	1.78	2.13	1.82	1.56	1.46	
25	1.83	2.18	1.66	1.72	1.86	2.26	1.65	1.68	2.10	1.94	1.56	1.45	
26	1.76	1.97	1.64	1.67	1.74	2.00	1.67	1.71	2.08	1.76	1.56	1.45	
27	1.62	1.84	1.63	1.63	1.70	1.90	1.65	1.67	2.23	1.74	1.56	1.43	
28	1.59	1.78	1.61	1.74	1.69	1.83	1.63	1.64	2.34	1.74	1.54	1.43	
29	1.58	1.92	1.61	1.65	1.72	2.22	1.64	1.63	2.42	1.71		1.43	
30	1.56	1.78	1.69	1.62	1.72	2.20	1.63	1.62	2.18	1.69		1.43	
31		1.75		1.61	1.70		2.26		2.09	1.67		1.43	
MEAN	1.61	1.71	1.84	1.71	1.70	1.87	1.83	1.88	2.21	1.82	1.59	1.49	
MAX	1.90	2.25	2.90	2.03	1.87	2.68	2.35	3.46	4.32	2.03	1.67	1.54	4.32
MIN	1.50	1.53	1.61	1.61	1.58	1.56	1.63	1.62	1.56	1.67	1.54	1.43	1.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.65 M (A.D), AT 20.00 HOURS, ON DEC 15, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.11 M (A.D)
LEFT BANK ELEVATION 5.58 M (A.D)
RIGHT BANK ELEVATION 6.00 M (A.D), DRAINAGE AREA 43 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	1.08	4.41	1.22	1.30	1.60	6.40	4.32	1.30	4.68	1.67	0.70	
2	0.40	0.77	3.18	2.58	1.83	1.98	7.80	3.26	1.52	4.14	1.60	0.62	
3	1.52	0.62	4.59	1.90	1.30	1.52	4.77	4.14	1.37	4.14	1.52	0.62	
4	0.62	0.70	5.13	3.09	1.08	1.37	3.60	3.78	1.15	4.77	1.45	0.55	
5	1.00	1.45	4.68	1.98	1.00	1.22	2.75	3.43	1.15	3.87	1.37	0.55	
6	1.83	2.07	3.18	4.77	1.75	1.08	4.68	3.43	0.85	3.26	1.30	0.55	
7	1.08	2.32	2.58	4.23	2.32	1.00	4.32	25.28	2.15	3.78	1.30	0.70	
8	0.70	1.67	2.24	3.96	3.01	0.93	2.41	6.70	2.66	3.18	1.15	0.62	
9	0.55	1.22	1.98	3.35	2.75	0.85	2.66	4.77	3.01	2.83	1.15	0.62	
10	0.62	1.00	2.32	2.75	1.98	1.52	2.24	3.96	9.17	2.75	1.08	0.62	
11	1.37	1.08	2.58	2.15	1.67	2.58	1.90	4.41	7.00	2.15	1.00	0.62	
12	3.60	4.14	4.32	2.41	1.90	1.75	1.98	3.26	4.32	2.92	1.00	0.55	
13	0.55	1.30	14.70	1.67	1.45	1.75	3.18	3.18	3.01	3.26	0.93	0.55	
14	0.55	1.08	5.13	1.60	1.30	2.49	2.15	3.09	6.10	2.83	1.00	0.55	
15	1.00	1.00	4.32	1.45	1.30	2.92	2.24	2.92	49.16	2.92	1.00	0.24	
16	1.67	0.77	3.96	1.37	1.37	2.75	1.83	2.66	27.64	2.92	0.93	0.16	
17	1.45	0.70	3.18	1.67	3.18	3.60	1.75	4.77	14.25	2.58	0.93	0.08	
18	3.60	0.62	2.66	1.60	1.75	8.40	1.75	3.18	9.50	2.49	0.85	0.24	
19	0.77	0.77	2.41	1.60	1.60	5.50	1.67	2.15	15.55	2.24	0.93	0.32	
20	0.77	1.45	2.07	1.52	1.67	3.87	7.90	1.98	9.06	2.07	0.93	0.24	
21	1.15	1.37	1.90	1.45	1.60	3.87	4.32	1.67	8.10	2.15	0.85	0.08	
22	1.08	1.30	1.75	1.37	1.67	11.66	2.83	1.60	5.80	2.15	0.93	0.55	
23	0.70	4.14	2.15	1.37	1.37	5.70	2.24	1.98	5.70	2.24	0.93	0.16	
24	0.62	6.90	1.67	1.45	3.35	4.50	1.75	2.58	5.70	2.92	0.85	0.08	
25	3.01	6.20	1.60	2.07	3.26	7.00	1.52	1.75	5.40	3.96	0.85	0.00	
26	2.41	4.23	1.45	1.67	2.24	4.50	1.67	1.98	5.22	2.41	0.85	0.00	
27	1.30	3.09	1.37	1.37	1.90	3.60	1.52	1.67	6.70	2.24	0.85	0.00	
28	1.08	2.58	1.22	2.24	1.83	3.01	1.37	1.45	7.80	2.24	0.70	0.00	
29	1.00	3.78	1.22	1.52	2.07	6.60	1.45	1.37	8.62	1.98		0.00	
30	0.85	2.58	1.83	1.30	2.07	6.40	1.37	1.30	6.20	1.83		0.00	
31		2.32		1.22	1.90		7.00		5.31	1.67		0.00	
TOTAL	37.32	64.30	95.78	63.90	58.77	105.52	95.02	112.02	240.47	89.57	29.90	10.57	1003.14 CMSDAY
MEAN	1.24	2.07	3.19	2.06	1.90	3.52	3.07	3.73	7.76	2.89	1.07	0.34	2.75 CMS
MAX	3.60	6.90	14.70	4.77	3.35	11.66	7.90	25.28	49.16	4.77	1.67	0.70	49.16 CMS
MIN	0.40	0.62	1.22	1.22	1.00	0.85	1.37	1.30	0.85	1.67	0.70	0.00	0.00 CMS
RUNOFF	3.224	5.556	8.275	5.521	5.078	9.117	8.210	9.679	20.777	7.739	2.583	0.913	86.671 MCM

MOMENTARY PEAK 60.45 CMS, AT 4.65 M (A.D), AT 20.00 HOURS, ON DEC 15, 1982

RUNOFF YIELD 63.91 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1405.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA WEST COAST

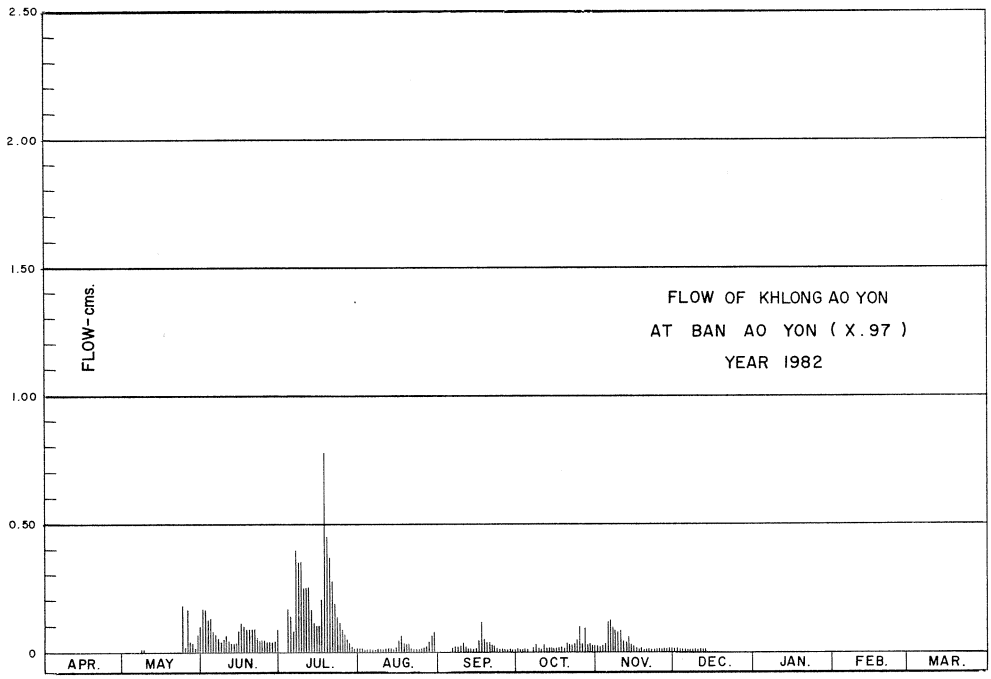
KHLONG AO YON AT BAN AO YON, PHUKET (X.97)

LOCATION	LAT. 7°-49'-07" N., LONG. 98°-23'-44" E., ON LEFT BANK NEAR TANK PROJECT OF SONGKHLA NAKHARIN UNIVERSITY, AMPHOE MUANG, PHUKET.
DRAINAGE AREA	2 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM	+0.810 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+3.505 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1974, 1976 - 1982.
RATING OPERATION	
PERIOD OF RATING	1974, 1976 - 1982.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974, 1976 - 1982.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENT MADE IN 1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.81	1.23	1.07	1.09	1.06	1.08	1.11	1.10	0.81	0.81	0.81	
2	0.81	0.81	1.22	1.03	1.09	1.06	1.08	1.11	1.10	0.81	0.81	0.81	
3	0.81	0.81	1.20	1.06	1.09	1.06	1.08	1.11	1.10	0.81	0.81	0.81	
4	0.81	0.81	1.19	1.23	1.09	1.06	1.08	1.12	1.10	0.81	0.81	0.81	
5	0.81	0.81	1.16	1.21	1.10	1.07	1.11	1.20	1.10	0.81	0.81	0.81	
6	0.81	0.81	1.15	1.16	1.10	1.11	1.03	1.20	1.10	0.81	0.81	0.81	
7	0.81	0.81	1.14	1.34	1.10	1.11	1.11	1.17	1.09	0.81	0.81	0.81	
8	0.81	1.10	1.13	1.32	1.10	1.11	1.12	1.16	1.09	0.81	0.81	0.81	
9	0.81	1.08	1.13	1.32	1.10	1.11	1.08	1.15	1.10	0.81	0.81	0.81	
10	0.81	1.00	1.15	1.28	1.10	1.12	1.09	1.16	1.09	0.81	0.81	0.81	
11	0.81	1.00	1.13	1.27	1.08	1.11	1.12	1.13	1.08	0.81	0.81	0.81	
12	0.81	1.00	1.12	1.27	1.08	1.09	1.10	1.13	1.08	0.81	0.81	0.81	
13	0.81	1.00	1.12	1.23	1.10	1.09	1.10	1.15	1.08	0.81	0.81	0.81	
14	0.81	0.99	1.12	1.20	1.10	1.10	1.10	1.12	1.07	0.81	0.81	0.81	
15	0.81	0.99	1.16	1.18	1.10	1.08	1.10	1.11	1.06	0.81	0.81	0.81	
16	0.81	0.99	1.19	1.18	1.13	1.08	1.10	1.11	1.06	0.81	0.81	0.81	
17	0.81	0.98	1.18	1.25	1.15	1.20	1.10	1.10	1.06	0.81	0.81	0.81	
18	0.81	0.98	1.17	1.47	1.12	1.14	1.10	1.10	1.06	0.81	0.81	0.81	
19	0.81	0.98	1.17	1.36	1.12	1.13	1.11	1.10	1.06	0.81	0.81	0.81	
20	0.81	0.98	1.17	1.34	1.12	1.13	1.12	1.10	1.06	0.81	0.81	0.81	
21	0.81	0.99	1.17	1.30	1.10	1.12	1.12	1.10	1.06	0.81	0.81	0.81	
22	0.81	0.99	1.14	1.26	1.09	1.12	1.11	1.10	1.06	0.81	0.81	0.81	
23	0.81	0.99	1.13	1.21	1.09	1.09	1.12	1.10	1.06	0.81	0.81	0.81	
24	0.81	1.11	1.13	1.19	1.10	1.09	1.13	1.10	1.06	0.81	0.81	0.81	
25	0.81	1.22	1.13	1.17	1.10	1.09	1.14	1.10	1.05	0.81	0.81	0.81	
26	0.81	1.13	1.13	1.15	1.10	1.10	1.12	1.10	1.05	0.81	0.81	0.81	
27	0.81	1.12	1.13	1.12	1.12	1.08	1.17	1.10	1.06	0.81	0.81	0.81	
28	0.81	1.09	1.13	1.12	1.14	1.08	1.13	1.10	1.06	0.81	0.81	0.81	
29	0.81	1.09	1.13	1.11	1.16	1.08	1.12	1.10	1.05	0.81		0.81	
30	0.81	1.14	1.17	1.10	1.15	1.09	1.11	1.10	1.05	0.81		0.81	
31		1.19		1.10	1.06		1.10		1.05	0.81		0.81	
MEAN	0.81	0.99	1.15	1.21	1.11	1.10	1.11	1.12	1.07	0.81	0.81	0.81	
MAX	0.81	1.22	1.23	1.47	1.16	1.20	1.17	1.20	1.10	0.81	0.81	0.81	1.47
MIN	0.81	0.81	1.12	1.03	1.06	1.06	1.03	1.10	1.05	0.81	0.81	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.82 M (MSL), AT 10.00 HOURS, ON JUL 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.81 M (MSL), RIVER BED 0.81 M (MSL)
LEFT BANK ELEVATION 3.18 M (MSL)
RIGHT BANK ELEVATION 2.98 M (MSL), DRAINAGE AREA 2 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.17	0.00	0.01	0.00	0.01	0.02	0.01	0.00	0.00	0.00	
2	0.00	0.00	0.16	0.00	0.01	0.00	0.01	0.02	0.01	0.00	0.00	0.00	
3	0.00	0.00	0.12	0.00	0.01	0.00	0.01	0.02	0.01	0.00	0.00	0.00	
4	0.00	0.00	0.11	0.17	0.01	0.00	0.01	0.03	0.01	0.00	0.00	0.00	
5	0.00	0.00	0.08	0.14	0.01	0.00	0.02	0.12	0.01	0.00	0.00	0.00	
6	0.00	0.00	0.06	0.08	0.01	0.02	0.00	0.12	0.01	0.00	0.00	0.00	
7	0.00	0.00	0.05	0.40	0.01	0.02	0.02	0.09	0.01	0.00	0.00	0.00	
8	0.00	0.01	0.04	0.35	0.01	0.02	0.03	0.08	0.01	0.00	0.00	0.00	
9	0.00	0.01	0.04	0.35	0.01	0.02	0.01	0.06	0.01	0.00	0.00	0.00	
10	0.00	0.00	0.06	0.26	0.01	0.03	0.01	0.08	0.01	0.00	0.00	0.00	
11	0.00	0.00	0.04	0.25	0.01	0.02	0.03	0.04	0.01	0.00	0.00	0.00	
12	0.00	0.00	0.03	0.25	0.01	0.01	0.01	0.04	0.01	0.00	0.00	0.00	
13	0.00	0.00	0.03	0.17	0.01	0.01	0.01	0.06	0.01	0.00	0.00	0.00	
14	0.00	0.00	0.03	0.12	0.01	0.01	0.01	0.03	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.08	0.10	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.11	0.10	0.04	0.01	0.01	0.02	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.10	0.21	0.06	0.12	0.01	0.01	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.09	0.77	0.03	0.05	0.01	0.01	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.09	0.45	0.03	0.04	0.02	0.01	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.09	0.40	0.03	0.04	0.03	0.01	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.09	0.30	0.01	0.03	0.03	0.01	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.05	0.23	0.01	0.03	0.02	0.01	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.04	0.14	0.01	0.01	0.03	0.01	0.00	0.00	0.00	0.00	
24	0.00	0.02	0.04	0.11	0.01	0.01	0.04	0.01	0.00	0.00	0.00	0.00	
25	0.00	0.16	0.04	0.09	0.01	0.01	0.05	0.01	0.00	0.00	0.00	0.00	
26	0.00	0.04	0.04	0.06	0.01	0.01	0.03	0.01	0.00	0.00	0.00	0.00	
27	0.00	0.03	0.04	0.03	0.03	0.01	0.09	0.01	0.00	0.00	0.00	0.00	
28	0.00	0.01	0.04	0.03	0.05	0.01	0.04	0.01	0.00	0.00	0.00	0.00	
29	0.00	0.01	0.04	0.02	0.08	0.01	0.03	0.01	0.00	0.00		0.00	
30	0.00	0.05	0.09	0.01	0.06	0.01	0.02	0.01	0.00	0.00		0.00	
31		0.11		0.01	0.00		0.01		0.00	0.00		0.00	
TOTAL	0.00	0.45	2.09	5.60	0.62	0.57	0.67	0.99	0.13	0.00	0.00	0.00	11.12 CMSDAY
MEAN	0.00	0.01	0.07	0.18	0.02	0.02	0.02	0.03	0.00	0.00	0.00	0.00	0.03 CMS
MAX	0.00	0.16	0.17	0.77	0.08	0.12	0.09	0.12	0.01	0.00	0.00	0.00	0.77 CMS
MIN	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.039	0.181	0.484	0.054	0.049	0.058	0.086	0.011	0.000	0.000	0.000	0.961 MCM

MOMENTARY PEAK 2.27 CMS, AT 1.82 M (MSL), AT 10.00 HOURS, ON JUL 18, 1982

RUNOFF YIELD 15.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1136.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA WEST COAST

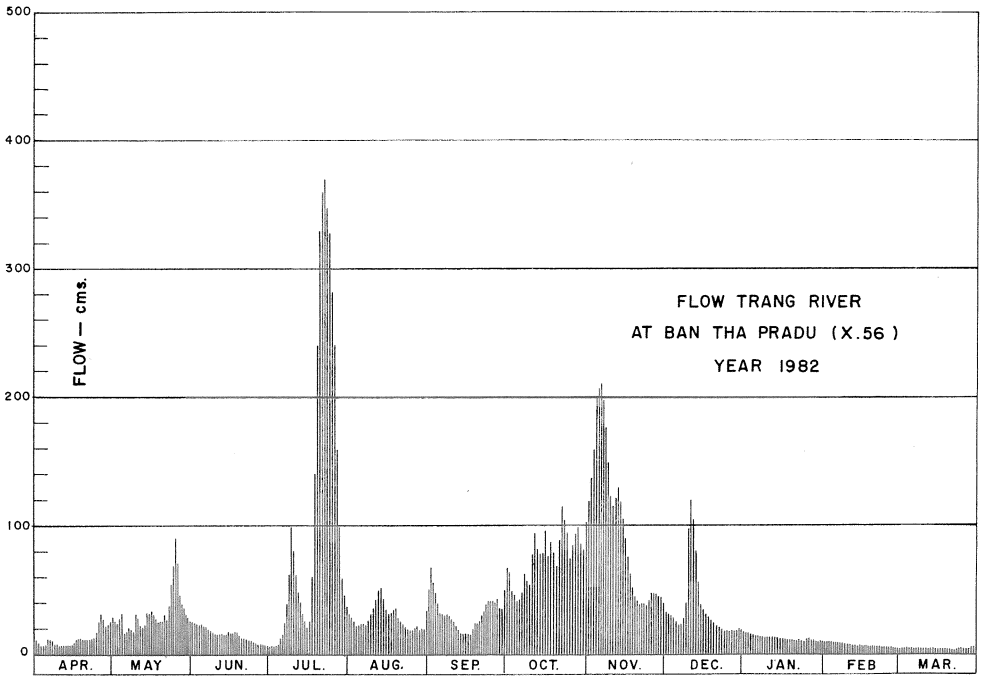
TRANG RIVER AT BAN THA PRADU, TRANG (X.56)

LOCATION	LAT. 7°-46'-01" N., LONG. 99°-32'-25" E., ON LEFT BANK ABOUT 200 METERS FROM HUAI YOT-KRABI HIGHWAY, AND ABOUT 16 KILOMETERS FROM AMPHOE HUAI YOT, TRANG.
DRAINAGE AREA	1,801 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+7.690 M. (A.D.)
GAGE READING FREQUENCY	13-TIME DAILY READINGS AT 06.00-18.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 13 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966-1969, 1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1966-1969, 1978 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 139 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.72	2.75	2.55	1.48	2.86	4.29	4.25	5.52	2.98	2.11	1.62	1.30	
2	1.47	2.53	2.46	1.46	2.67	4.11	4.16	5.74	2.89	2.04	1.60	1.30	
3	1.43	2.83	2.48	1.45	2.52	3.74	3.71	6.16	2.90	2.01	1.58	1.29	
4	1.43	2.93	2.60	1.48	2.40	3.22	3.45	6.81	2.87	2.03	1.56	1.28	
5	1.80	2.09	2.48	1.71	2.56	3.05	3.32	7.10	2.66	2.04	1.53	1.27	
6	1.81	2.26	2.36	1.99	2.53	3.06	3.53	7.17	2.55	1.98	1.52	1.26	
7	1.62	2.38	2.30	2.74	2.50	3.06	4.00	7.08	2.48	1.93	1.50	1.26	
8	1.52	2.17	2.17	4.54	2.67	3.03	4.20	6.79	2.75	1.89	1.49	1.26	
9	1.48	2.20	2.06	5.13	2.99	2.80	3.86	6.22	3.35	1.87	1.47	1.25	
10	1.43	2.97	2.13	4.65	3.15	2.60	4.21	5.71	5.07	1.84	1.46	1.24	
11	1.43	2.82	2.05	3.93	3.52	2.40	5.08	5.49	5.66	1.81	1.46	1.23	
12	1.47	2.42	2.05	3.48	3.77	2.24	4.91	5.72	5.13	1.79	1.45	1.22	
13	1.46	2.33	2.03	3.31	3.80	2.12	4.63	5.85	4.28	1.78	1.43	1.22	
14	1.41	2.97	2.09	2.86	3.42	2.07	4.64	5.52	3.63	1.76	1.43	1.22	
15	1.39	3.00	2.25	2.50	3.08	2.11	5.09	5.02	3.26	1.79	1.41	1.23	
16	1.44	2.90	2.08	2.29	2.94	2.10	4.72	4.89	3.04	1.87	1.40	1.22	
17	1.72	3.08	2.13	2.84	3.08	2.23	4.55	4.42	2.96	1.92	1.39	1.21	
18	1.88	2.78	2.22	6.39	3.19	2.47	4.89	3.86	2.79	1.85	1.39	1.20	
19	1.79	2.62	1.94	7.78	2.88	2.59	4.61	3.52	2.64	1.80	1.38	1.18	
20	1.80	2.66	1.86	8.15	2.64	2.57	4.32	3.39	2.53	1.76	1.37	1.17	
21	1.77	2.93	1.80	8.32	2.49	2.70	4.70	3.31	2.45	1.73	1.36	1.17	
22	1.79	2.63	1.73	8.35	2.41	3.00	5.57	3.28	2.38	1.70	1.36	1.19	
23	1.84	3.45	1.71	8.27	2.34	3.37	5.40	3.29	2.32	1.68	1.35	1.21	
24	2.03	4.34	1.66	8.13	2.22	3.37	5.09	3.23	2.27	1.68	1.34	1.20	
25	2.50	4.94	1.61	7.87	2.22	3.37	4.54	3.48	2.23	1.78	1.33	1.20	
26	2.91	4.51	1.56	7.29	2.45	3.29	4.84	3.66	2.19	1.79	1.33	1.21	
27	2.67	3.49	1.54	6.35	2.44	3.38	5.17	3.65	2.14	1.72	1.32	1.22	
28	2.39	3.18	1.50	5.20	2.36	3.12	4.89	3.55	2.15	1.70	1.31	1.27	
29	2.51	3.09	1.49	4.16	2.26	3.09	4.70	3.33	2.25	1.69		1.43	
30	2.62	2.74	1.49	3.51	2.29	3.82	4.81	3.52	2.31	1.67		1.31	
31		2.60		3.13	3.26		5.12		2.18	1.64		1.24	
MEAN	1.82	2.92	2.01	4.54	2.77	2.95	4.55	4.88	2.94	1.83	1.43	1.24	
MAX	2.91	4.94	2.60	8.35	3.80	4.29	5.57	7.17	5.66	2.11	1.62	1.43	8.35
MIN	1.39	2.09	1.49	1.45	2.22	2.07	3.32	3.23	2.14	1.64	1.31	1.17	1.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.38 M (A.D), AT 24.00 HOURS, ON JUL 21, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 12.78 M (A.D)
RIGHT BANK ELEVATION 12.76 M (A.D), DRAINAGE AREA 1801 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.30	28.50	24.50	7.70	30.70	67.20	66.00	114.90	33.10	17.15	9.80	5.00	
2	7.55	24.10	22.70	7.40	26.90	61.80	63.30	125.00	31.30	16.10	9.50	5.00	
3	6.95	30.10	23.10	7.25	23.90	51.50	50.75	146.00	31.50	15.65	9.20	4.90	
4	6.95	32.10	25.50	7.70	21.50	38.50	44.25	184.70	30.90	15.95	8.90	4.80	
5	12.50	16.85	23.10	11.15	24.70	34.50	41.00	205.50	26.70	16.10	8.45	4.70	
6	12.65	19.40	20.90	15.35	24.10	34.70	46.25	210.75	24.50	15.20	8.30	4.60	
7	9.80	21.20	20.00	28.30	23.50	34.70	58.50	204.00	23.10	14.45	8.00	4.60	
8	8.30	18.05	18.05	75.90	26.90	34.10	64.50	183.30	28.50	13.85	7.85	4.60	
9	7.70	18.50	16.40	98.70	33.30	29.50	54.50	149.10	41.75	13.55	7.55	4.50	
10	6.95	32.90	17.45	79.75	36.75	25.50	64.80	123.50	96.30	13.10	7.40	4.40	
11	6.95	29.90	16.25	56.40	46.00	21.50	96.70	113.55	121.20	12.65	7.40	4.30	
12	7.55	21.90	16.25	45.00	52.25	19.10	89.90	124.00	98.70	12.35	7.25	4.20	
13	7.40	20.45	15.95	40.75	53.00	17.30	79.05	130.50	66.90	12.20	6.95	4.20	
14	6.65	32.90	16.85	30.70	43.50	16.55	79.40	114.90	48.75	11.90	6.95	4.20	
15	6.35	33.50	19.25	23.50	35.10	17.15	97.10	94.30	39.50	12.35	6.65	4.30	
16	7.10	31.50	16.70	19.85	32.30	17.00	82.30	89.10	34.30	13.55	6.50	4.20	
17	11.30	35.10	17.45	30.30	35.10	18.95	76.25	71.70	32.70	14.30	6.35	4.10	
18	13.70	29.10	18.80	158.45	37.75	22.90	89.10	54.50	29.30	13.25	6.35	4.00	
19	12.35	25.90	14.60	271.60	31.10	25.30	78.35	46.00	26.30	12.50	6.20	3.80	
20	12.50	26.70	13.40	329.00	26.30	24.90	68.20	42.75	24.10	11.90	6.05	3.70	
21	12.05	32.10	12.50	362.80	23.30	27.50	81.50	40.75	22.50	11.45	5.90	3.70	
22	12.35	26.10	11.45	370.00	21.70	33.50	117.15	40.00	21.20	11.00	5.90	3.90	
23	13.10	44.25	11.15	352.00	20.60	42.25	109.50	40.25	20.30	10.70	5.75	4.10	
24	15.95	68.90	10.40	325.40	18.80	42.25	97.10	38.75	19.55	10.70	5.60	4.00	
25	23.50	91.10	9.65	282.40	18.80	42.25	75.90	45.00	18.95	12.20	5.45	4.00	
26	31.70	74.85	8.90	220.20	22.50	40.25	87.10	49.50	18.35	12.35	5.45	4.10	
27	26.90	45.25	8.60	156.25	22.30	42.50	100.30	49.25	17.60	11.30	5.30	4.20	
28	21.35	37.50	8.00	101.50	20.90	36.00	89.10	46.75	17.75	11.00	5.15	4.70	
29	23.70	35.30	7.85	63.30	19.40	35.30	81.50	41.25	19.25	10.85		6.95	
30	25.90	28.30	7.85	45.75	19.85	53.50	85.90	46.00	20.15	10.55		5.15	
31		25.50		36.25	39.50		98.30		18.20	10.10		4.40	
TOTAL	389.00	1037.80	473.55	3660.60	912.30	1007.95	2413.55	2965.55	1103.20	400.25	196.10	137.30	14697.15 CMSDAY
MEAN	12.97	33.48	15.79	118.08	29.43	33.60	77.86	98.85	35.59	12.91	7.00	4.43	40.27 CMS
MAX	31.70	91.10	25.50	370.00	53.00	67.20	117.15	210.75	121.20	17.15	9.80	6.95	370.00 CMS
MIN	6.35	16.85	7.85	7.25	18.80	16.55	41.00	38.75	17.60	10.10	5.15	3.70	3.70 CMS
RUNOFF	33.610	89.666	40.915	316.276	78.823	87.087	208.531	256.224	95.316	34.582	16.943	11.863	1269.834 MCM

MOMENTARY PEAK 377.20 CMS, AT 8.38 M (A.D), AT 24.00 HOURS, ON JUL 21, 1982

RUNOFF YIELD 22.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 209.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA WEST COAST

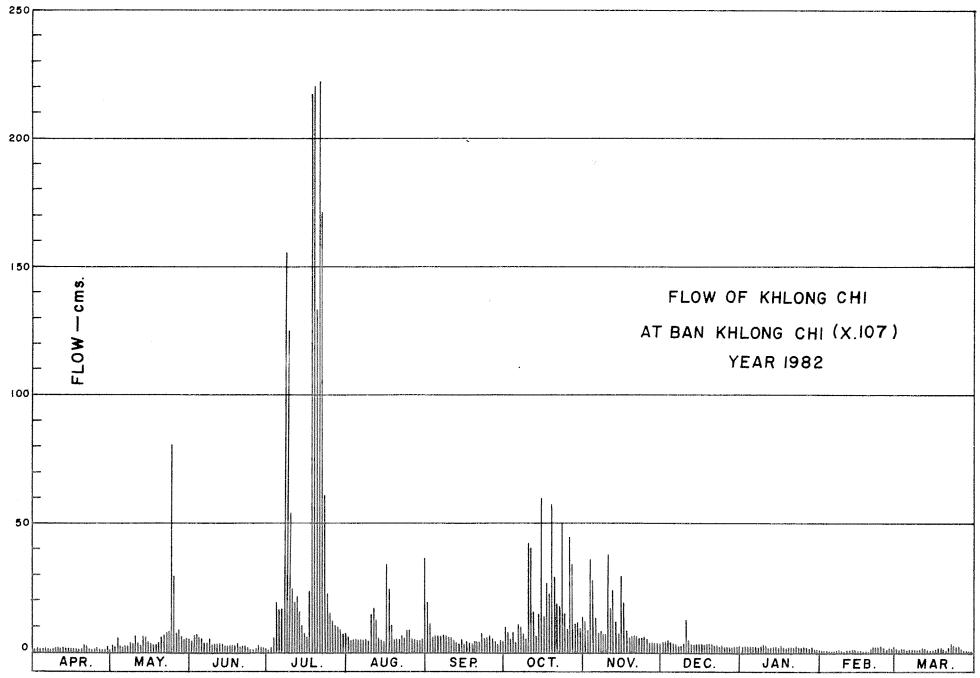
KHLONG CHI AT BAN KHLONG CHI, TRANG (X.107)

LOCATION	LAT. 7°-44'-08" N., LONG. 99°-24'-42" E., ON RIGHT BANK DOWNSTREAM FROM THE BRIDGE OF KRABI-TRANG HIGHWAY, BAN KHLONG CHI, AMPHOE SIKAO, TRANG.
DRAINAGE AREA	248 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 2.5 METERS FROM THE TOP OF STAFF GAGE.
ELEVATION	+8.020 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1978 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1978 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1978 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE WITH VARIABLE WATER SURFACE SLOPE.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.72 M. (A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.69	0.93	0.41	1.05	1.72	1.45	1.53	0.80	0.52	0.37	0.31	
2	0.34	0.46	1.16	0.39	1.03	1.36	1.09	1.34	0.77	0.51	0.37	0.31	
3	0.33	1.00	1.13	1.21	1.02	1.17	0.99	2.70	0.95	0.51	0.37	0.31	
4	0.45	0.50	1.00	2.02	1.03	1.09	1.30	1.98	0.77	0.50	0.36	0.32	
5	0.35	0.39	0.88	1.84	1.21	1.15	0.95	1.51	0.72	0.50	0.36	0.32	
6	0.52	0.49	0.88	1.92	1.04	1.11	1.50	1.33	0.70	0.48	0.35	0.32	
7	0.37	0.47	0.84	2.97	1.00	1.15	1.43	1.30	0.71	0.47	0.35	0.32	
8	0.40	0.80	0.79	5.72	1.03	1.12	1.02	1.25	0.76	0.47	0.35	0.32	
9	0.58	0.52	0.73	4.23	0.95	1.07	1.18	1.22	0.86	0.46	0.35	0.32	
10	0.35	1.16	0.72	2.05	1.86	0.98	2.98	2.79	1.67	0.46	0.35	0.32	
11	0.34	0.61	0.70	1.99	1.89	0.90	2.87	1.86	0.87	0.46	0.35	0.32	
12	0.31	0.47	0.67	2.11	1.46	0.85	1.35	2.24	0.74	0.46	0.35	0.32	
13	0.30	0.47	0.60	1.55	1.08	0.84	1.15	1.43	0.74	0.46	0.35	0.32	
14	0.28	0.94	0.60	1.30	1.04	1.00	2.01	1.28	0.71	0.45	0.34	0.32	
15	0.28	0.71	0.69	1.18	0.94	0.88	3.47	2.42	0.68	0.48	0.34	0.32	
16	0.27	0.73	0.73	1.09	2.59	0.91	1.67	1.52	0.68	0.51	0.34	0.32	
17	0.26	0.58	0.80	3.05	1.97	0.89	2.37	1.39	0.67	0.49	0.34	0.32	
18	0.26	0.44	0.65	6.84	1.25	0.91	2.10	1.15	0.65	0.45	0.33	0.32	
19	0.27	0.81	0.58	6.87	1.08	0.89	3.45	1.10	0.63	0.45	0.32	0.32	
20	0.55	1.04	0.57	5.27	1.05	0.93	2.18	1.11	0.61	0.45	0.32	0.32	
21	0.42	1.09	0.54	6.90	0.97	0.96	1.93	1.14	0.61	0.45	0.32	0.34	
22	0.38	1.17	0.50	5.02	1.19	1.30	1.91	1.06	0.59	0.44	0.31	0.76	
23	0.63	1.17	0.49	2.55	0.96	1.19	3.15	1.14	0.58	0.41	0.31	0.41	
24	0.35	4.10	0.45	1.97	0.83	1.11	1.56	1.00	0.57	0.41	0.31	0.39	
25	0.32	1.98	0.43	1.71	1.38	1.09	1.34	0.94	0.55	0.41	0.31	0.30	
26	0.37	1.18	0.41	1.52	1.31	0.93	3.01	0.87	0.55	0.40	0.31	0.30	
27	0.34	1.30	0.40	1.44	1.06	0.84	2.30	0.89	0.54	0.40	0.31	0.30	
28	0.30	1.01	0.40	1.30	1.08	0.82	1.54	0.83	0.54	0.41	0.31	0.30	
29	0.46	0.98	0.40	1.24	0.97	1.07	1.58	0.82	0.59	0.38		0.30	
30	0.34	0.99	0.40	1.17	1.03	0.98	1.39	0.83	0.54	0.37		0.30	
31		0.91		1.14	2.73		1.74		0.52	0.37		0.30	
MEAN	0.37	0.94	0.67	2.58	1.26	1.04	1.87	1.40	0.71	0.45	0.34	0.33	
MAX	0.63	4.10	1.16	6.90	2.73	1.72	3.47	2.79	1.67	0.52	0.37	0.76	6.90
MIN	0.26	0.39	0.40	0.39	0.83	0.82	0.95	0.82	0.52	0.37	0.31	0.30	0.26

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.07 M (A.D), AT 18.00 HOURS, ON JUL 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)
LEFT BANK ELEVATION 6.71 M (A.D)
RIGHT BANK ELEVATION 7.96 M (A.D), DRAINAGE AREA 248 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.25	2.45	4.34	1.05	5.50	14.40	10.25	11.45	3.25	1.60	0.85	0.55	
2	0.70	1.30	6.60	0.95	5.30	8.90	5.90	8.60	3.02	1.55	0.85	0.55	
3	0.65	5.00	6.30	7.10	5.20	6.70	4.91	36.00	4.53	1.55	0.85	0.55	
4	1.25	1.50	5.00	20.40	5.30	5.90	8.00	19.60	3.02	1.50	0.80	0.60	
5	0.75	0.95	3.89	16.80	7.10	6.50	4.53	11.15	2.65	1.50	0.80	0.60	
6	1.60	1.45	3.89	18.40	5.40	6.10	11.00	8.45	2.50	1.40	0.75	0.60	
7	0.85	1.35	3.57	43.60	5.00	6.50	9.95	8.00	2.57	1.35	0.75	0.60	
8	1.00	3.25	3.18	155.50	5.30	6.20	5.20	7.50	2.95	1.35	0.75	0.60	
9	1.90	1.60	2.73	85.70	4.53	5.70	6.80	7.20	3.73	1.30	0.75	0.60	
10	0.75	6.60	2.65	21.00	17.20	4.81	43.90	38.25	13.55	1.30	0.75	0.60	
11	0.70	2.05	2.50	19.80	17.80	4.05	40.60	17.20	3.81	1.30	0.75	0.60	
12	0.55	1.35	2.35	22.20	10.40	3.65	8.75	24.80	2.80	1.30	0.75	0.60	
13	0.50	1.35	2.00	11.75	5.80	3.57	6.50	9.95	2.80	1.30	0.75	0.60	
14	0.45	4.43	2.00	8.00	5.40	5.00	20.20	7.80	2.57	1.25	0.70	0.60	
15	0.45	2.57	2.45	6.80	4.43	3.89	58.60	29.00	2.40	1.40	0.70	0.60	
16	0.43	2.73	2.73	5.90	33.25	4.15	13.55	11.30	2.40	1.55	0.70	0.60	
17	0.40	1.90	3.25	46.00	19.40	3.97	27.75	9.35	2.35	1.45	0.70	0.60	
18	0.40	1.20	2.25	218.40	7.50	4.15	22.00	6.50	2.25	1.25	0.65	0.60	
19	0.43	3.33	1.90	220.20	5.80	3.97	58.00	6.00	2.15	1.25	0.60	0.60	
20	1.75	5.40	1.85	133.00	5.50	4.34	23.60	6.10	2.05	1.25	0.60	0.60	
21	1.10	5.90	1.70	222.00	4.72	4.62	18.60	6.40	2.05	1.25	0.60	0.70	
22	0.90	6.70	1.50	120.50	6.90	8.00	18.20	5.60	1.95	1.20	0.55	2.95	
23	2.15	6.70	1.45	32.25	4.62	6.90	49.00	6.40	1.90	1.05	0.55	1.05	
24	0.75	80.50	1.25	19.40	3.49	6.10	11.90	5.00	1.85	1.05	0.55	0.95	
25	0.60	19.60	1.15	14.20	9.20	5.90	8.60	4.43	1.75	1.05	0.55	0.50	
26	0.85	6.80	1.05	11.30	8.15	4.34	44.80	3.81	1.75	1.00	0.55	0.50	
27	0.70	8.00	1.00	10.10	5.60	3.57	26.00	3.97	1.70	1.00	0.55	0.50	
28	0.50	5.10	1.00	8.00	5.80	3.41	11.60	3.49	1.70	1.05	0.55	0.50	
29	1.30	4.81	1.00	7.40	4.72	5.70	12.20	3.41	1.95	0.90		0.50	
30	0.70	4.91	1.00	6.70	5.30	4.81	9.35	3.49	1.70	0.85		0.50	
31		4.15		6.40	36.75		14.80		1.60	0.85		0.50	
TOTAL	26.31	204.93	77.53	1520.80	276.36	165.80	615.04	330.20	87.25	38.95	19.25	21.00	3383.42 CMSDAY
MEAN	0.88	6.61	2.58	49.06	8.91	5.53	19.84	11.01	2.81	1.26	0.69	0.68	9.27 CMS
MAX	2.15	80.50	6.60	222.00	36.75	14.40	58.60	38.25	13.55	1.60	0.85	2.95	222.00 CMS
MIN	0.40	0.95	1.00	0.95	3.49	3.41	4.53	3.41	1.60	0.85	0.55	0.50	0.40 CMS
RUNOFF	2.273	17.706	6.699	131.397	23.878	14.325	53.139	28.529	7.538	3.365	1.663	1.814	292.328 MCM

MOMENTARY PEAK 232.20 CMS, AT 7.07 M (A.D), AT 18.00 HOURS, ON JUL 18, 1982
RUNOFF YIELD 37.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 936.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA WEST COAST

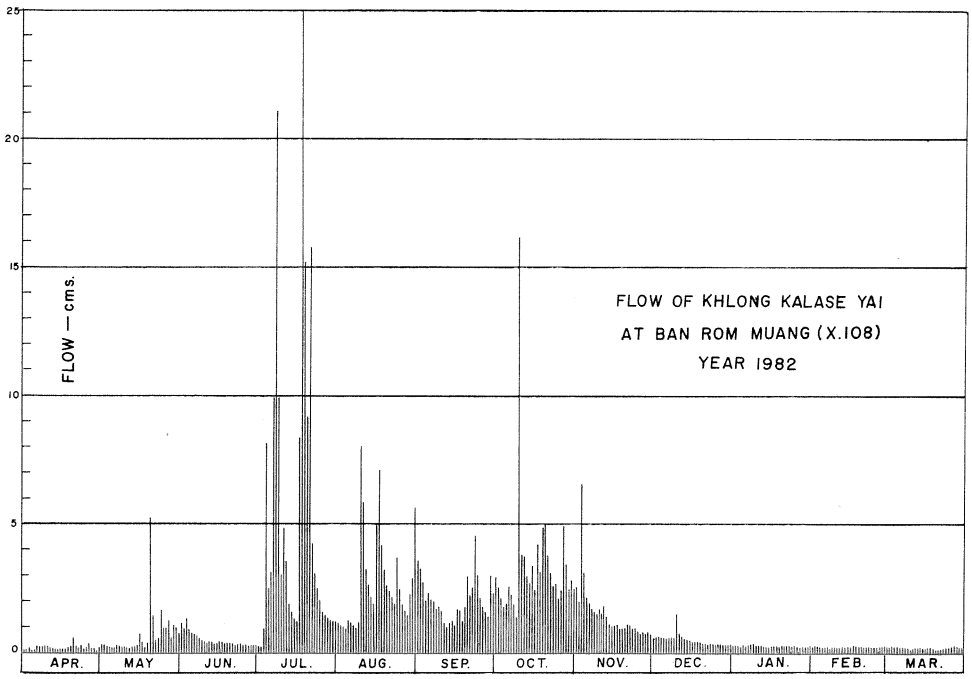
KHLONG KALASE YAI AT BAN ROM MUANG, TRANG (X.108)

LOCATION	LAT. 7°-44'-03" N., LONG. 99°-20'-00" E., ON RIGHT BANG AT BAN ROM MUANG, AMPHOE SIKAO, TANG.
DRAINAGE AREA	57 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF OBSERVER'S HOUSE.
ELEVATION	+4.771 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.95	1.36	0.88	1.35	2.19	1.98	1.86	1.10	0.90	0.77	0.75	
2	0.64	0.78	1.29	0.85	1.29	2.12	1.90	1.72	1.10	0.89	0.76	0.75	
3	0.64	0.79	1.45	1.34	1.25	1.91	1.73	2.73	1.18	0.88	0.76	0.75	
4	0.63	0.72	1.22	2.92	1.25	1.73	1.61	1.93	1.10	0.87	0.76	0.75	
5	0.64	0.69	1.19	1.89	1.42	1.80	1.73	1.76	1.09	0.87	0.76	0.75	
6	0.82	0.71	1.16	2.17	1.39	1.73	1.91	1.67	1.07	0.86	0.76	0.74	
7	0.72	0.78	1.12	3.49	1.31	1.73	1.81	1.59	1.07	0.86	0.75	0.74	
8	1.26	0.73	1.04	3.98	1.33	1.58	1.56	1.56	1.10	0.86	0.75	0.74	
9	0.73	0.72	0.99	2.60	1.46	1.62	1.49	1.52	1.10	0.85	0.75	0.74	
10	0.69	0.70	0.98	2.01	2.87	1.47	3.64	1.55	1.53	0.85	0.75	0.74	
11	0.70	0.68	0.99	2.45	2.66	1.37	2.23	1.53	1.13	0.84	0.75	0.74	
12	0.66	0.68	0.95	1.97	2.12	1.33	2.23	1.64	1.07	0.84	0.75	0.73	
13	0.65	0.75	0.93	1.67	1.92	1.39	1.98	1.43	1.05	0.83	0.75	0.73	
14	0.64	0.87	0.98	1.53	1.71	1.43	1.95	1.37	1.03	0.82	0.75	0.73	
15	0.64	0.96	1.04	1.44	1.59	1.31	2.13	1.34	1.02	0.85	0.75	0.73	
16	0.65	1.15	0.96	1.39	3.90	1.59	1.87	1.30	1.02	0.84	0.75	0.73	
17	0.64	0.83	0.95	3.23	2.79	1.55	2.30	1.32	1.01	0.83	0.75	0.73	
18	0.64	0.86	0.97	4.40	2.26	1.41	2.07	1.27	1.00	0.82	0.75	0.73	
19	0.69	1.78	0.91	3.28	2.05	1.71	2.49	1.27	1.00	0.81	0.75	0.73	
20	1.14	2.54	0.90	3.03	1.92	2.00	2.47	1.38	0.98	0.81	0.75	0.73	
21	0.76	1.33	0.88	3.60	1.83	1.80	2.06	1.38	0.97	0.81	0.74	0.75	
22	0.82	1.05	0.87	2.33	1.77	1.95	1.94	1.26	0.96	0.80	0.74	0.75	
23	0.77	1.11	0.80	2.04	1.69	2.38	1.95	1.22	0.95	0.80	0.74	0.75	
24	0.69	1.59	0.85	1.82	1.69	1.99	1.73	1.20	0.95	0.79	0.74	0.74	
25	0.72	1.25	0.84	1.69	2.18	1.78	1.83	1.19	0.95	0.79	0.75	0.74	
26	0.93	1.31	0.83	1.60	1.81	1.62	2.49	1.16	0.93	0.79	0.75	0.73	
27	0.74	1.45	0.83	1.48	1.63	1.54	1.95	1.20	0.93	0.78	0.75	0.73	
28	0.69	1.10	0.86	1.47	1.54	1.46	1.85	1.15	0.96	0.78	0.75	0.73	
29	0.67	1.32	0.84	1.45	1.50	2.02	1.96	1.14	0.94	0.78		0.73	
30	0.70	1.26	0.83	1.42	1.81	1.81	1.75	1.13	0.92	0.77		0.73	
31		1.15		1.42	2.61		1.86		0.91	0.77		0.73	
MEAN	0.73	1.05	0.99	2.16	1.87	1.71	2.01	1.46	1.04	0.83	0.75	0.74	
MAX	1.26	2.54	1.45	4.40	3.90	2.38	3.64	2.73	1.53	0.90	0.77	0.75	4.40
MIN	0.63	0.68	0.80	0.85	1.25	1.31	1.49	1.13	0.91	0.77	0.74	0.73	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.76 M (A.D), AT 18.00 HOURS, ON JUL 17, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.43 M (A.D)
LEFT BANK ELEVATION 6.63 M (A.D)
RIGHT BANK ELEVATION 6.59 M (A.D), DRAINAGE AREA 57 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.35	1.15	0.28	1.13	3.66	2.88	2.48	0.60	0.30	0.18	0.16	
2	0.08	0.18	0.98	0.25	0.98	3.38	2.60	2.06	0.60	0.29	0.17	0.16	
3	0.08	0.19	1.38	1.10	0.90	2.64	2.09	6.64	0.76	0.28	0.17	0.16	
4	0.07	0.14	0.84	8.28	0.90	2.09	1.78	2.71	0.60	0.27	0.17	0.16	
5	0.08	0.11	0.78	2.57	1.30	2.30	2.09	2.18	0.58	0.27	0.17	0.16	
6	0.22	0.13	0.72	3.58	1.23	2.09	2.64	1.92	0.54	0.26	0.17	0.15	
7	0.14	0.18	0.64	14.28	1.02	2.09	2.33	1.73	0.54	0.26	0.16	0.15	
8	0.92	0.14	0.48	21.08	1.08	1.70	1.65	1.65	0.60	0.26	0.16	0.15	
9	0.14	0.14	0.39	5.70	1.40	1.80	1.48	1.55	0.60	0.25	0.16	0.15	
10	0.11	0.12	0.38	2.99	7.83	1.43	16.16	1.62	1.57	0.25	0.16	0.15	
11	0.12	0.11	0.39	4.85	6.12	1.18	3.82	1.57	0.66	0.24	0.16	0.15	
12	0.09	0.11	0.35	2.85	3.38	1.08	3.82	1.85	0.54	0.24	0.16	0.14	
13	0.08	0.16	0.33	1.92	2.67	1.23	2.88	1.32	0.50	0.23	0.16	0.14	
14	0.08	0.27	0.38	1.57	2.03	1.32	2.78	1.18	0.46	0.22	0.16	0.14	
15	0.08	0.36	0.48	1.35	1.73	1.02	3.42	1.10	0.44	0.25	0.16	0.14	
16	0.08	0.70	0.36	1.23	19.80	1.73	2.51	1.00	0.44	0.24	0.16	0.14	
17	0.08	0.23	0.35	11.27	7.12	1.62	4.10	1.05	0.42	0.23	0.16	0.14	
18	0.08	0.26	0.37	28.30	3.94	1.27	3.20	0.94	0.40	0.22	0.16	0.14	
19	0.11	2.24	0.31	11.79	3.13	2.03	5.05	0.94	0.40	0.21	0.16	0.14	
20	0.68	5.34	0.30	9.27	2.67	2.95	4.95	1.20	0.38	0.21	0.16	0.14	
21	0.17	1.08	0.28	15.60	2.39	2.30	3.16	1.20	0.37	0.21	0.15	0.16	
22	0.22	0.50	0.27	4.25	2.21	2.78	2.74	0.92	0.36	0.20	0.15	0.16	
23	0.18	0.62	0.20	3.09	1.98	4.50	2.78	0.84	0.35	0.20	0.15	0.16	
24	0.11	1.73	0.25	2.36	1.98	2.92	2.09	0.80	0.35	0.19	0.15	0.15	
25	0.14	0.90	0.24	1.98	3.62	2.24	2.39	0.78	0.35	0.19	0.16	0.15	
26	0.33	1.02	0.23	1.75	2.33	1.80	5.05	0.72	0.33	0.19	0.16	0.14	
27	0.15	1.38	0.23	1.45	1.82	1.60	2.78	0.80	0.33	0.18	0.16	0.14	
28	0.11	0.60	0.26	1.43	1.60	1.40	2.45	0.70	0.36	0.18	0.16	0.14	
29	0.10	1.05	0.24	1.38	1.50	3.02	2.81	0.68	0.34	0.18		0.14	
30	0.12	0.92	0.23	1.30	2.33	2.33	2.15	0.66	0.32	0.18		0.14	
31		0.70		1.30	5.77		2.48		0.31	0.18		0.14	
TOTAL	5.03	21.96	13.79	170.40	97.89	63.50	103.11	44.79	15.40	7.06	4.51	4.58	552.02 CMSDAY
MEAN	0.17	0.71	0.46	5.50	3.16	2.12	3.33	1.49	0.50	0.23	0.16	0.15	1.51 CMS
MAX	0.92	5.34	1.38	28.30	19.80	4.50	16.16	6.64	1.57	0.30	0.18	0.16	28.30 CMS
MIN	0.07	0.11	0.20	0.25	0.90	1.02	1.48	0.66	0.31	0.18	0.15	0.14	0.07 CMS
RUNOFF	0.435	1.897	1.191	14.723	8.458	5.486	8.909	3.870	1.331	0.610	0.390	0.396	47.695 MCM

MOMENTARY PEAK 35.05 CMS, AT 4.76 M (A.D), AT 18.00 HOURS, ON JUL 17, 1982

RUNOFF YIELD 26.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 614.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1982

SOUTHERN PENINSULA WEST COAST

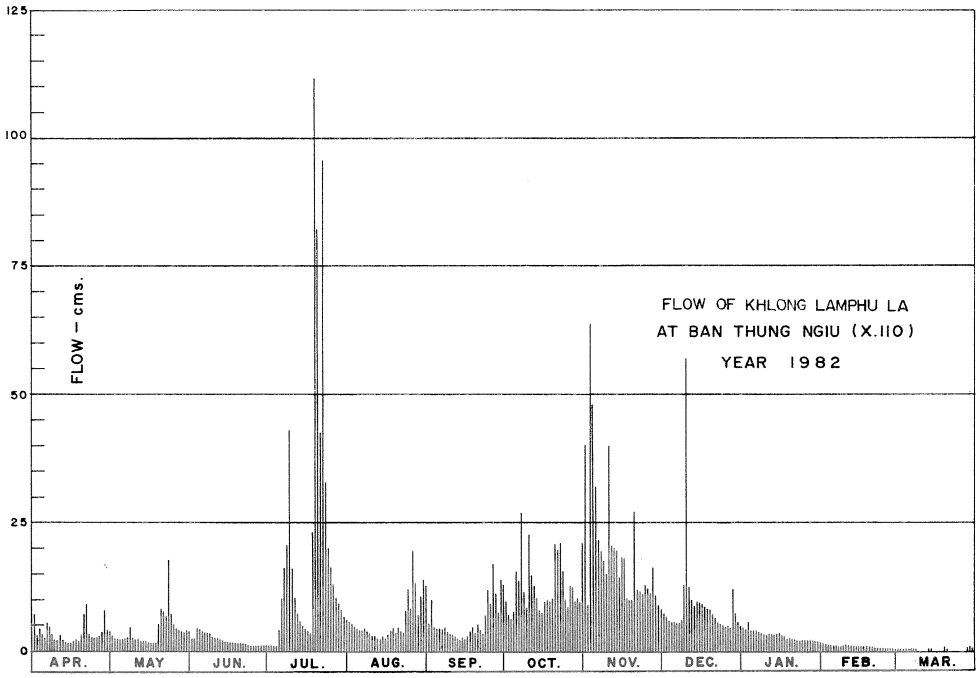
KHLONG LAMPHU LA AT BAN THUNG NGIU, TRANG (X.110)

LOCATION	LAT. 7°-40'-24" N., LONG. 99°-35'-05" E., ON RIGHT BANK AT BAN THUNG NGIU, AMPHOE HUAI YOT, TRANG.
DRAINAGE AREA	229 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK NEAR THE GAGE SITE.
ELEVATION	+5.612 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 MEAN OF 5 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1979 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1979 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1979 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.37	1.00	0.97	0.76	1.25	1.23	1.53	3.21	1.40	1.16	0.83	0.62	
2	1.02	0.95	0.92	0.76	1.21	1.56	1.36	1.48	1.35	1.13	0.82	0.62	
3	1.15	0.91	1.13	0.76	1.17	1.18	1.30	3.90	1.34	1.24	0.84	0.62	
4	0.93	0.88	1.17	1.17	1.13	1.13	1.40	3.37	1.27	1.12	0.80	0.62	
5	0.88	0.88	1.08	1.63	1.15	1.15	1.93	3.00	1.25	1.11	0.80	0.62	
6	1.26	0.93	1.04	1.94	1.13	1.10	1.81	2.33	1.26	1.10	0,79	0.62	
7	1.20	0.90	1.04	1.96	1.12	1.13	2.57	2.18	1.22	1.08	0.78	0.61	
8	1.00	1.13	1.04	3.27	1.14	1.08	1.71	2.02	1.35	1.04	0.78	0.61	
9	0.92	0.95	0.96	2.14	1.13	1.03	1.48	1.93	1.75	1.03	0.77	0.60	
10	0.90	0.93	0.93	1.67	1.46	1.04	2.41	3.16	3.71	1.02	0.77	0.60	
11	1.00	0.94	0.93	1.42	1.70	1.00	1.92	2.43	1.86	1.03	0.76	0.58	
12	0.88	0.89	0.92	1.31	1.48	0.97	1.75	2.20	1.60	1.01	0.76	0.58	
13	0.86	0.89	0.90	1.24	1.27	0.94	1.60	2.15	1.48	1.02	0.75	0.63	
14	0.86	0.92	0.90	1.14	1.16	0.98	1.45	1.86	1.52	1.00	0.75	0.61	
15	0.85	0.88	0.89	1.11	1.12	0.94	1.40	2.11	1.54	1.04	0.74	0.60	
16	0.97	0.88	0.88	1.06	1.20	1.00	1.55	2.12	1.53	1.00	0.73	0.59	
17	0.90	0.87	0.88	1.54	1.29	1.09	1.58	1.68	1.48	0.98	0.72	0.58	
18	0.87	0.86	0.87	4.93	1.17	1.15	1.55	1.58	1.45	0.96	0.72	0.56	
19	0.98	1.05	0.86	4.28	1.11	1.05	1.59	1.57	1.43	0.95	0.72	0.82	
20	1.34	1.46	0.86	3.27	1.11	1.21	2.23	2.59	1.35	0.93	0.72	0.64	
21	1.51	1.42	0.85	4.63	1.06	1.08	2.17	1.72	1.30	0.92	0.72	0.60	
22	1.11	1.35	0.85	3.03	1.05	1.05	2.25	1.66	1.27	0.91	0.71	0.59	
23	0.97	2.05	0.85	2.43	1.02	1.45	1.98	1.65	1.25	0.91	0.71	0.58	
24	0.95	1.40	0.82	2.10	1.01	1.69	1.60	1.76	1.23	0.93	0.69	0.57	
25	0.92	1.20	0.81	1.86	1.07	1.49	1.46	1.70	1.20	0.92	0.69	0.56	
26	0.93	1.14	0.80	1.69	1.14	2.16	1.76	1.67	1.19	0.91	0.69	0.56	
27	1.08	1.10	0.79	1.54	1.05	1.73	1.73	1.96	1.15	0.89	0.68	0.55	
28	1.45	1.08	0.79	1.44	1.00	1.37	1.55	1.63	1.68	0.88	0.68	0.71	
29	1.13	1.03	0.77	1.36	1.02	1.84	1.59	1.51	1.41	0.87		0.74	
30	1.08	1.11	0.76	1.32	1.02	1.76	1.55	1.46	1.25	0.86		0.66	
31		1.10		1.28	1.04		2.20		1.21	0.84		0.60	
MEAN	1.04	1.07	0.91	1.94	1.16	1.25	1.74	2.12	1.46	0.99	0.75	0.61	
MAX	1.51	2.05	1.17	4.93	1.70	2.16	2.57	3.90	3.71	1.24	0.84	0.82	4.93
MIN	0.85	0.86	0.76	0.76	1.00	0.94	1.30	1.46	1.15	0.84	0.68	0.55	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.25 M (A.D), AT 18.00 HOURS, ON JUL 18, 1982
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.18 M (A.D)
LEFT BANK ELEVATION 8.34 M (A.D)
RIGHT BANK ELEVATION 7.97 M (A.D), DRAINAGE AREA 229 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.05	3.00	2.70	0.80	5.50	5.30	9.45	41.30	7.50	4.60	1.30	0.10	
2	3.20	2.50	2.20	0.80	5.10	9.90	6.90	8.70	6.75	4.30	1.20	0.10	
3	4.50	2.10	4.30	0.80	4.70	4.80	6.00	64.00	6.60	5.40	1.40	0.10	
4	2.30	1.80	4.70	4.70	4.30	4.30	7.50	46.10	5.70	4.20	1.00	0.10	
5	1.80	1.80	3.80	10.95	4.50	4.50	15.52	36.00	5.50	4.10	1.00	0.10	
6	5.60	2.30	3.40	15.70	4.30	4.00	13.65	22.52	5.60	4.00	0.95	0.10	
7	5.00	2.00	3.40	16.05	4.20	4.30	26.90	19.90	5.20	3.80	0.90	0.05	
8	3.00	4.30	3.40	43.10	4.40	3.80	12.15	17.10	6.75	3.40	0.90	0.05	
9	2.20	2.50	2.60	19.20	4.30	3.30	8.70	15.52	12.75	3.30	0.85	0.00	
10	2.00	2.30	2.30	11.55	8.40	3.40	23.93	40.00	56.85	3.20	0.85	0.00	
11	3.00	2.40	2.30	7.80	12.00	3.00	15.35	24.28	14.40	3.30	0.80	0.00	
12	1.80	1.90	2.20	6.15	8.70	2.70	12.75	20.25	10.50	3.10	0.80	0.00	
13	1.60	1.90	2.00	5.40	5.70	2.40	10.50	19.38	8.70	3.20	0.75	0.15	
14	1.60	2.20	2.00	4.40	4.60	2.80	8.25	14.40	9.30	3.00	0.75	0.05	
15	1.50	1.80	1.90	4.10	4.20	2.40	7.50	18.67	9.60	3.40	0.70	0.00	
16	2.70	1.80	1.80	3.60	5.00	3.00	9.75	18.85	9.45	3.00	0.65	0.00	
17	2.00	1.70	1.80	9.60	5.90	3.90	10.20	11.70	8.70	2.80	0.60	0.00	
18	1.70	1.60	1.70	111.30	4.70	4.50	9.75	10.20	8.25	2.60	0.60	0.00	
19	2.80	3.50	1.60	79.60	4.10	3.50	10.35	10.05	7.95	2.50	0.60	1.20	
20	6.60	8.40	1.60	43.10	4.10	5.10	20.78	27.30	6.75	2.30	0.60	0.20	
21	9.15	7.80	1.50	95.50	3.60	3.80	19.73	12.30	6.00	2.20	0.60	0.00	
22	4.10	6.75	1.50	36.75	3.50	3.50	21.12	11.40	5.70	2.10	0.55	0.00	
23	2.70	17.62	1.50	24.28	3.20	8.25	16.40	11.25	5.50	2.10	0.55	0.00	
24	2.50	7.50	1.20	18.50	3.10	11.85	10.50	12.90	5.30	2.30	0.45	0.00	
25	2.20	5.00	1.10	14.40	3.70	8.85	8.40	12.00	5.00	2.20	0.45	0.00	
26	2.30	4.40	1.00	11.85	4.40	19.55	12.90	11.55	4.90	2.10	0.45	0.00	
27	3.80	4.00	0.95	9.60	3.50	12.45	12.45	16.05	4.50	1.90	0.40	0.00	
28	8.25	3.80	0.95	8.10	3.00	7.05	9.75	10.95	11.70	1.80	0.40	0.55	
29	4.30	3.30	0.85	6.90	3.20	14.10	10.35	9.15	7.65	1.70		0.70	
30	3.80	4.10	0.80	6.30	3.20	12.90	9.75	8.40	5.50	1.60		0.30	
31		4.00		5.80	3.40		20.25		5.10	1.40		0.00	
TOTAL	105.05	120.07	63.05	636.68	146.50	183.20	397.48	602.17	279.65	90.90	21.05	3.85	2649.65 CMSDAY
MEAN	3.50	3.87	2.10	20.54	4.73	6.11	12.82	20.07	9.02	2.93	0.75	0.12	7.26 CMS
MAX	9.15	17.62	4.70	111.30	12.00	19.55	26.90	64.00	56.85	5.40	1.40	1.20	111.30 CMS
MIN	1.50	1.60	0.80	0.80	3.00	2.40	6.00	8.40	4.50	1.40	0.40	0.00	0.00 CMS
RUNOFF	9.076	10.374	5.448	55.009	12.658	15.828	34.342	52.028	24.162	7.854	1.819	0.333	228.930 MCM

MOMENTARY PEAK 131.25 CMS, AT 5.25 M (A.D), AT 18.00 HOURS, ON JUL 18, 1982

RUNOFF YIELD 31.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 573.14 LITERS/SECOND/SQUARE KM

SUSPENDED SEDIMENT STATION

1. Ping River at Ban Tha Sala, Chiang Mai (P. 19A)
2. Nam Mae Kuang at Ban Pha Taek, Chiang Mai (P. 34)
3. Yom River at Ban Don Rabiang, Sukhothai (Y. 14)
4. Nam Pat at Ban Wang Bang, Uttaradit (N. 33)
5. Chao Phraya River at Nakhon Sawan, Nakhon Sawan (C. 2)
6. Pa Sak River at Ban Muang Nua, Saraburi (S. 9)
7. Chi River at Ban Nong O, Chaiyaphum (E. 32A)
8. Lam Dom Yai at Det Udom, Ubon Ratchathani (M. 80)
9. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt. 3)
10. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10)
11. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt. 12)
12. Huai Yang at Ban Thung Faek, Prachin Buri (Kgt. 14)
13. Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B. 6)

WATER YEAR 1982

PING RIVER BASIN

PING RIVER AT BAN THA SALA, CHIANGMAI (P.19A)

LOCATION	LAT. 18-25-29 N., LONG. 98-42-17 E., ON LEFT BANK ABOUT 300 METERS DOWNSTREAM FROM CONFLUENCE WITH LI RIVER, AMPHOE CHOM THONG, CHIANG MAI.
DRAINAGE AREA	14,023 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.D-49
PERIOD OF AVAILABLE RECORDS	1958 TO DATE.
ACTUAL MEASUREMENT	1966-1968,1970-1972,1974-1978.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.	18.	1070.	39.	155.	430.	10274.	1049.	453.	100.	19.	2.	
2	1.	16.	2641.	42.	163.	384.	10274.	989.	430.	88.	16.	2.	
3	1.	12.	2092.	42.	163.	430.	10763.	930.	407.	62.	15.	1.	
4	1.	11.	1442.	39.	148.	508.	9714.	811.	395.	44.	12.	1.	
5	0.	15.	1009.	39.	120.	508.	7526.	811.	372.	34.	12.	1.	
6	0.	22.	795.	39.	113.	747.	5570.	861.	350.	31.	10.	1.	
7	0.	66.	795.	39.	113.	1237.	4263.	844.	307.	24.	8.	1.	
8	0.	83.	1346.	42.	120.	1258.	3472.	861.	297.	22.	7.	1.	
9	0.	94.	2061.	79.	113.	2217.	2742.	811.	297.	21.	6.	1.	
10	0.	75.	2345.	163.	100.	5781.	2607.	795.	276.	19.	6.	1.	
11	3.	58.	1908.	407.	94.	9051.	2742.	844.	266.	18.	6.	1.	
12	5.	47.	1442.	508.	88.	9051.	2818.	877.	287.	18.	6.	1.	
13	178.	31.	1301.	418.	94.	7258.	4457.	844.	266.	18.	6.	1.	
14	171.	24.	1301.	329.	113.	5004.	5207.	811.	256.	18.	6.	1.	
15	163.	21.	1194.	246.	178.	3074.	4654.	811.	220.	18.	5.	1.	
16	120.	19.	970.	178.	372.	1908.	3562.	779.	194.	16.	5.	1.	
17	88.	19.	639.	141.	551.	1614.	2674.	747.	163.	15.	5.	1.	
18	83.	21.	430.	120.	763.	3427.	2061.	716.	134.	22.	5.	1.	
19	113.	39.	339.	88.	1173.	5310.	1715.	685.	120.	22.	5.	1.	
20	113.	75.	287.	75.	1418.	5728.	1442.	685.	113.	22.	4.	1.	
21	134.	148.	256.	70.	1301.	5728.	1215.	654.	106.	24.	4.	1.	
22	134.	127.	256.	83.	989.	5994.	1029.	609.	113.	31.	4.	1.	
23	100.	120.	211.	120.	811.	7258.	911.	565.	120.	36.	4.	1.	
24	100.	120.	148.	134.	700.	8486.	844.	551.	106.	36.	4.	1.	
25	83.	178.	106.	106.	624.	9483.	795.	580.	100.	29.	4.	1.	
26	66.	361.	83.	94.	716.	10194.	1029.	763.	106.	27.	4.	1.	
27	42.	624.	70.	88.	700.	9873.	1394.	716.	94.	24.	4.	1.	
28	22.	685.	54.	113.	670.	9338.	1614.	639.	83.	21.	3.	1.	
29	18.	594.	47.	113.	670.	9266.	1540.	580.	79.	21.		1.	
30	16.	494.	42.	141.	609.	9793.	1346.	494.	75.	22.		1.	
31		522.		141.	522.		1215.		75.	22.		1.	
TOTAL	1756.	4739.	26680.	4276.	14464.	150338.	111469.	22712.	6660.	925.	195.	33.	344247. TONDAY
MEAN	58.	152.	889.	137.	466.	5011.	3595.	757.	214.	29.	6.	1.	
MAX	178.	685.	2641.	508.	1418.	10194.	10763.	1049.	453.	100.	19.	2.	10763.
MIN	0.	11.	42.	39.	88.	384.	795.	494.	75.	15.	3.	1.	0.

WATER YEAR 1982

PING RIVER BASIN

NAM MAE KUANG AT BAN PHA TAEK, CHIANG MAI (P.34)

LOCATION	LAT. 18-56-22 N., LONG. 99-07-25 E., ON LEFT BANK AT BAN PHA TAEK, AMPHOE DOI SAKET, CHIANG MAI.
DRAINAGE AREA	566 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.D-49
PERIOD OF AVAILABLE RECORDS	1974 TO DATE.
ACTUAL MEASUREMENT	1975-1978.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	1.41	6.24	7.19	12.63	11.06	348.30	23.70	5.35	3.91	5.35	2.22	
2	0.72	1.41	9.59	12.63	16.07	8.22	206.33	2.75	11.06	3.69	5.35	3.69	
3	0.64	0.99	3.76	0.99	8.22	42.00	159.55	2.60	11.06	3.69	4.60	3.48	
4	0.57	0.99	19.91	1.41	3.76	66.69	138.33	2.75	11.06	3.91	4.60	3.48	
5	0.81	4.52	8.22	12.63	2.45	138.33	118.57	2.30	9.87	4.60	4.60	3.69	
6	0.99	19.91	6.24	16.07	3.76	83.47	118.57	2.03	9.87	6.42	4.37	6.15	
7	2.45	11.06	3.07	0.99	14.30	83.47	100.28	1.89	9.30	6.15	4.13	2.94	
8	0.99	7.19	2.45	16.07	8.22	47.97	100.28	1.77	9.87	5.87	3.91	2.82	
9	1.89	6.24	60.35	39.16	6.24	231.88	36.96	2.03	10.46	5.87	2.00	2.82	
10	8.22	5.35	16.07	1036.57	7.19	692.18	40.29	2.45	10.46	5.61	2.00	2.82	
11	21.97	4.52	8.22	60.35	5.35	348.30	118.57	2.60	14.30	5.61	2.69	2.82	
12	44.94	0.81	8.22	118.57	51.09	159.55	206.33	2.03	14.30	5.61	4.84	2.82	
13	19.91	0.64	3.76	12.63	28.76	118.57	138.33	3.24	13.62	5.61	4.84	2.82	
14	8.22	0.57	16.07	2.45	16.07	73.34	182.22	22.83	13.62	4.60	4.84	4.60	
15	5.35	0.50	7.19	3.07	11.06	60.35	100.28	14.30	12.31	3.69	4.60	6.15	
16	4.52	3.07	5.35	0.57	16.07	47.97	83.47	9.87	11.67	3.69	4.60	6.15	
17	4.52	3.07	1.89	0.57	39.16	206.33	58.98	8.22	11.67	3.48	4.60	5.61	
18	3.76	1.89	0.81	0.31	39.16	231.88	49.21	10.46	11.06	3.27	4.60	5.61	
19	2.45	0.72	0.64	0.31	24.14	1447.08	36.96	9.87	10.46	3.48	4.60	5.35	
20	2.45	6.24	0.50	1.89	17.94	317.07	40.29	9.87	7.70	5.87	3.27	5.35	
21	3.76	7.19	0.99	1.89	12.63	380.94	38.60	9.30	4.52	5.87	3.27	5.35	
22	2.45	3.76	0.57	39.16	8.22	159.55	42.00	8.75	5.78	5.87	3.27	5.35	
23	0.81	2.45	0.43	28.76	5.35	231.88	49.21	8.22	17.18	5.87	3.07	5.35	
24	0.50	1.89	0.37	14.30	33.77	380.94	40.29	7.70	17.18	5.87	3.07	5.35	
25	0.43	6.24	0.31	0.99	36.42	565.09	49.21	12.95	19.51	5.87	2.94	5.35	
26	0.31	7.19	0.72	1.89	31.21	450.42	100.28	9.30	5.09	5.87	4.37	5.35	
27	0.21	11.06	4.52	39.16	36.42	1036.57	38.60	7.70	4.84	5.87	1.15	5.09	
28	0.64	9.59	3.76	28.76	17.94	487.26	35.34	6.71	4.37	5.87	2.22	4.84	
29	11.06	8.22	3.76	16.07	14.30	737.30	32.22	5.78	4.37	5.61		2.82	
30	3.07	9.59	3.76	1.41	16.07	414.98	71.83	5.35	4.37	5.61		2.69	
31		9.59		0.99	26.40		27.80		4.13	5.61		2.69	
TOTAL	159.42	157.87	207.74	1517.81	570.37	9260.63	2907.47	219.32	310.41	158.42	107.75	131.62	15708.82 TONDA'
MEAN	5.31	5.09	6.92	48.96	18.40	308.69	93.79	7.31	10.01	5.11	3.85	4.25	
MAX	44.94	19.91	60.35	1036.57	51.09	1447.08	348.30	23.70	19.51	6.42	5.35	6.15	1447.08
MIN	0.21	0.50	0.31	0.31	2.45	8.22	27.80	1.77	4.13	3.27	1.15	2.22	0.21

WATER YEAR 1982

YOM RIVER BASIN

MAE YOM RIVER AT BAN DON RABIANG, SUKHOTHAI (Y.14)

LOCATION LAT. 17-35-42 N., LONG. 99-43-08 E., ON LEFT BANK ABOUT 50 METERS FROM HIGHWAY NO.101 (SI SATCHANALAI-DEN CHAI) AT KILOMETER MARKER 44., AMPHOE SI SATCHANALAI, SUKHOTHAI.

DRAINAGE AREA 12,131 SQ.KM.

METHOD OF SAMPLING DEPTH INTEGRATING.

INSTRUMENT USED US.D-49

PERIOD OF AVAILABLE RECORDS 1964 TO DATE.

ACTUAL MEASUREMENT 1969-1971,1973 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	8.	66.	63.	29.	139.	728.	31681.	608.	178.	32.	14.	3.		
2	9.	59.	52.	27.	126.	560.	21674.	529.	171.	32.	16.	3.		
3	10.	56.	46.	27.	109.	483.	14939.	468.	151.	29.	16.	3.		
4	8.	49.	43.	27.	94.	659.	17647.	401.	139.	29.	16.	3.		
5	8.	43.	43.	27.	98.	576.	18847.	378.	132.	29.	14.	3.		
6	10.	59.	56.	27.	109.	576.	9007.	344.	126.	32.	14.	3.		
7	17.	126.	115.	25.	94.	746.	5509.	312.	115.	29.	13.	2.		
8	17.	132.	199.	29.	74.	2099.	3885.	303.	103.	29.	11.	2.		
9	11.	126.	214.	40.	85.	15078.	3144.	295.	94.	29.	10.	2.		
10	10.	90.	178.	40.	98.	99294.	2707.	286.	85.	27.	9.	2.		
11	8.	70.	151.	43.	94.	50699.	2957.	278.	78.	25.	9.	2.		
12	8.	56.	261.	367.	85.	22462.	8218.	278.	78.	25.	8.	2.		
13	8.	49.	498.	468.	90.	16077.	8311.	269.	70.	24.	8.	2.		
14	13.	46.	513.	278.	85.	8405.	4874.	278.	66.	24.	8.	2.		
15	27.	56.	390.	199.	74.	4414.	3771.	261.	63.	22.	8.	2.		
16	29.	74.	261.	145.	70.	2788.	2707.	303.	59.	20.	8.	2.		
17	25.	158.	171.	115.	98.	2320.	2357.	269.	59.	19.	7.	2.		
18	746.	151.	132.	94.	303.	2064.	1923.	253.	56.	17.	7.	2.		
19	2172.	94.	98.	81.	269.	1889.	1559.	253.	56.	17.	6.	2.		
20	2667.	74.	85.	74.	454.	2320.	1171.	253.	52.	17.	6.	2.		
21	5223.	56.	78.	66.	857.	2870.	934.	237.	52.	17.	5.	2.		
22	2064.	52.	70.	171.	980.	2788.	782.	229.	46.	17.	5.	2.		
23	838.	59.	59.	819.	1147.	2028.	676.	237.	43.	16.	5.	2.		
24	625.	56.	52.	454.	1026.	2028.	642.	237.	43.	16.	5.	2.		
25	295.	52.	43.	199.	1003.	4000.	592.	214.	40.	16.	5.	2.		
26	185.	52.	40.	269.	3144.	9642.	764.	192.	40.	16.	4.	1.		
27	192.	74.	40.	401.	3828.	22462.	1026.	192.	40.	16.	4.	1.		
28	192.	85.	34.	261.	1993.	19021.	857.	178.	37.	16.	5.	1.		
29	115.	74.	32.	207.	1687.	15078.	1050.	178.	37.	14.		1.		
30	81.	90.	29.	178.	1435.	18674.	957.	199.	34.	14.		1.		
31		85.		151.	1050.		728.		34.	14.		1.		
TOTAL	15621.	2369.	4046.	5338.	20798.	332828.	175896.	8712.	2377.	679.	246.	62.	568972.	TONDAY
MEAN	520.	76.	134.	172.	670.	11094.	5674.	290.	76.	21.	8.	2.		
MAX	5223.	158.	513.	819.	3828.	99294.	31681.	608.	178.	32.	16.	3.	99294.	
MIN	8.	43.	29.	25.	70.	483.	592.	178.	34.	14.	4.	1.	1.	

WATER YEAR 1982

NAN RIVER BASIN

NAM PAT AT BAN WANG BANG, UTTARADIT (N.33)

LOCATION	LAT. 17-43-05 N., LONG. 100-34-32 E., ON RIGHT BANK ABOUT 4.5 KILOMETERS UPSTREAM FROM CONFLUENCE WITH NAN RIVER AT BAN WANG BANG, TAMBON SAEN TO, AMPHOE NAM PAT, UTTARADIT.
DRAINAGE AREA	2,463 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.D-49
PERIOD OF AVAILABLE RECORDS	1967 TO DATE.
ACTUAL MEASUREMENT	1971 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.5	3.9	38.4	7.2	11.6	108.4	5656.0	122.7	17.3	3.9	1.2	0.3	
2	0.7	3.3	22.0	7.2	11.6	101.5	5911.3	108.4	17.3	3.9	1.2	0.3	
3	0.8	2.8	14.4	6.5	9.1	638.5	3628.7	90.4	17.3	3.3	1.2	0.2	
4	0.7	1.8	20.4	6.5	8.0	443.1	3628.7	69.7	17.3	3.3	1.2	0.2	
5	0.5	1.8	24.5	6.5	7.2	169.1	1596.1	64.8	15.8	3.3	1.1	0.2	
6	0.5	5.8	115.4	6.5	8.0	315.3	952.3	60.1	15.8	3.3	0.9	0.2	
7	0.5	90.4	443.1	6.5	7.2	977.4	878.3	51.0	14.4	3.3	0.9	0.2	
8	0.5	32.6	1200.2	6.5	7.2	5997.3	618.8	47.7	13.0	3.3	0.9	0.2	
9	0.5	15.8	3628.7	6.5	7.2	6715.5	544.4	44.5	9.1	3.3	0.8	0.2	
10	0.5	13.0	1200.2	7.2	7.2	5160.4	830.2	41.4	8.0	3.3	0.8	0.2	
11	0.5	10.4	368.8	11.6	8.0	3628.7	1596.1	41.4	8.0	2.8	0.8	0.2	
12	1.4	7.2	186.6	8.0	9.1	1668.1	854.1	38.4	7.2	2.8	0.7	0.2	
13	8.0	5.8	122.7	6.5	18.8	806.5	544.4	35.4	6.5	2.8	0.7	0.2	
14	5.8	4.5	69.7	8.0	47.7	492.8	396.7	38.4	5.8	2.8	0.7	0.2	
15	22.0	3.9	64.8	9.1	32.6	355.2	289.6	35.4	5.8	2.3	0.5	0.2	
16	69.7	32.6	60.1	9.1	29.8	245.5	225.3	41.4	5.1	2.3	0.4	0.2	
17	476.0	17.3	44.5	5.1	29.8	426.9	196.0	51.0	5.8	1.8	0.4	0.2	
18	145.2	6.5	29.8	3.9	38.4	1872.6	169.1	47.7	5.8	1.6	0.4	0.2	
19	1200.2	5.8	24.5	3.3	44.5	1229.7	145.2	44.5	5.1	1.6	0.3	0.2	
20	492.8	4.5	27.1	3.3	55.5	719.8	130.0	38.4	5.1	1.2	0.3	0.2	
21	108.4	8.0	130.0	18.8	115.4	544.4	137.5	32.6	4.5	1.1	0.4	0.2	
22	55.5	27.1	47.7	341.7	95.9	410.9	145.2	32.6	4.5	1.4	0.4	0.2	
23	29.8	79.8	44.5	562.1	115.4	527.0	101.5	29.8	3.9	1.4	0.3	0.2	
24	18.8	215.3	27.1	186.6	315.3	1708.3	245.5	27.1	4.5	1.4	0.3	0.2	
25	13.0	44.5	18.8	122.7	277.1	2442.6	266.4	27.1	4.5	1.4	0.3	0.2	
26	10.4	101.5	14.4	55.5	245.5	3186.9	618.8	24.5	3.9	1.4	0.3	0.1	
27	8.0	90.4	11.6	32.6	266.4	2592.1	459.4	22.0	3.9	1.6	0.3	0.1	
28	7.2	60.1	10.4	27.1	443.1	1596.1	509.8	20.4	3.9	1.6	0.3	0.1	
29	5.8	29.8	8.0	20.4	315.3	4923.9	355.2	18.8	3.9	1.6		0.1	
30	4.5	51.0	7.2	15.8	205.6	4692.3	215.3	18.8	3.3	1.4		0.1	
31		90.4		13.0	137.5		153.0		3.3	1.2		0.1	
TOTAL	2688.7	1067.6	8025.5	1531.3	2931.0	54696.7	31998.8	1366.4	249.6	71.7	18.0	5.8	104651.2 TONDAY
MEAN	89.6	34.4	267.5	49.4	94.5	1823.2	1032.2	45.5	8.0	2.3	0.6	0.1	
MAX	1200.2	215.3	3628.7	562.1	443.1	6715.5	5911.3	122.7	17.3	3.9	1.2	0.3	6715.5
MIN	0.5	1.8	7.2	3.3	7.2	101.5	101.5	18.8	3.3	1.1	0.3	0.1	0.1

WATER YEAR 1982

CHAO PHRAYA RIVER BASIN

CHAO PHRAYA RIVER AT NAKHON SAWAN, NAKHON SAWAN (C.2)

LOCATION	LAT. 15-40-15 N., LONG 100-06-45 E., ON LEFT BANK AT KHAI CHIRA PRAWAT ABOUT 3 KILOMETERS DOWNSTREAM FROM DECHATIWONG BRIDGE, AMPHOE MUANG, NAKHON SAWAN.
DRAINAGE AREA	110,569 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.P-61
PERIOD OF AVAILABLE RECORDS	1972 TO DATE.
ACTUAL MEASUREMENT	1972 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	8295.	7527.	6068.	4079.	7103.	16272.	37198.	38876.	13218.	2141.	5497.	7715.		
2	9480.	6792.	7715.	3760.	7661.	14492.	42978.	37587.	13427.	2021.	4907.	6068.		
3	9480.	6413.	5450.	3760.	8464.	15482.	47762.	35663.	13218.	2081.	3938.	6117.		
4	9660.	6239.	4306.	4645.	6068.	17432.	53228.	33574.	12908.	2111.	4645.	7103.		
5	10238.	6068.	6117.	5063.	4264.	19901.	57671.	32264.	11441.	2021.	5018.	7852.		
6	11119.	6117.	6741.	6741.	4264.	22561.	58484.	31388.	9993.	2051.	5614.	8295.		
7	9243.	6413.	5497.	7051.	7181.	23767.	59507.	31030.	9067.	2422.	6117.	8692.		
8	7446.	6068.	5221.	5289.	7852.	20870.	59713.	28922.	7989.	3643.	6538.	7906.		
9	6019.	5614.	6314.	4495.	8606.	19239.	59988.	27554.	7181.	4039.	5497.	6314.		
10	6844.	5063.	4797.	5335.	7989.	21169.	59713.	25699.	6538.	3585.	4863.	6314.		
11	9570.	4710.	4602.	6665.	6665.	29268.	58688.	23632.	6019.	3643.	5899.	7181.		
12	9750.	4645.	6792.	7051.	6239.	34104.	55662.	23317.	5450.	3139.	6792.	8606.		
13	10054.	5661.	8606.	8692.	7580.	37809.	53228.	22694.	5018.	2552.	6239.	9750.		
14	9993.	6792.	7715.	7313.	8922.	40127.	51035.	20488.	5018.	2422.	6190.	10054.		
15	9332.	6844.	6413.	5450.	8379.	40586.	49638.	18185.	4863.	2787.	6363.	9570.		
16	8295.	7715.	6239.	5335.	7852.	41454.	49134.	17432.	4453.	2926.	6488.	7989.		
17	6488.	7446.	5130.	6314.	9332.	41454.	47267.	16731.	4223.	2753.	7393.	7527.		
18	6614.	6190.	3721.	7313.	8464.	40127.	44768.	15370.	4410.	2856.	7797.	8155.		
19	7527.	5947.	3585.	7527.	7446.	38033.	42742.	15370.	5381.	2719.	6741.	8692.		
20	8835.	5732.	2996.	9009.	9243.	35663.	40127.	15818.	5543.	2619.	7797.	9009.		
21	8922.	6488.	2455.	7580.	11376.	32472.	37198.	15038.	5450.	3509.	8379.	8749.		
22	9332.	6921.	3396.	5732.	12365.	26691.	35230.	14928.	5018.	4710.	8155.	8606.		
23	9902.	7393.	4710.	5063.	13427.	21427.	34317.	13848.	4223.	4863.	6973.	7181.		
24	10146.	7715.	3643.	6538.	14492.	18185.	33574.	12738.	3211.	4951.	7181.	7393.		
25	10674.	8072.	3103.	7906.	12365.	17197.	33574.	12466.	2926.	5130.	7103.	6741.		
26	10486.	8295.	3547.	8155.	11538.	17826.	34477.	12636.	2753.	4347.	7797.	7797.		
27	9660.	6538.	3248.	9421.	12636.	20998.	34104.	13011.	2685.	3396.	8295.	8520.		
28	9421.	5947.	4079.	7797.	15370.	24587.	35446.	13427.	2685.	3898.	8379.	8606.		
29	8211.	5827.	4559.	5497.	16616.	28234.	38033.	13848.	2719.	4907.		8835.		
30	7852.	5381.	4559.	5497.	17945.	32109.	38650.	13427.	2652.	5450.		8922.		
31		4951.		6792.	19362.		38650.		2390.	5543.		7852.		
TOTAL	268888.	197524.	151324.	196865.	307066.	809536.	1421784.	646961.	192070.	105235.	182595.	248111.	4727960.	TONDAY
MEAN	8962.	6371.	5044.	6350.	9905.	26984.	45864.	21565.	6195.	3394.	6521.	8003.		
MAX	11119.	8295.	8606.	9421.	19362.	41454.	59988.	38876.	13427.	5543.	8379.	10054.	59988.	
MIN	6019.	4645.	2455.	3760.	4264.	14492.	33574.	12466.	2390.	2021.	3938.	6068.	2021.	

WATER YEAR 1982

PA SAK RIVER BASIN

PA SAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

LOCATION	LAT. 14-37-33 N., LONG. 101-01-00 E., ON LEFT BANK ABOUT 5 KILOMETERS UPSTREAM FROM S.2, BAN MUANG NUA, AMPHOE KAENG KHOI, SARABURI.
DRAINAGE AREA	14,374 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.DH-59
PERIOD OF AVAILABLE RECORDS	1975 TO DATE.
ACTUAL MEASUREMENT	1975 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.	27.	149.	61.	28.	1337.	30874.	6079.	452.	149.	45.	28.	
2	28.	27.	99.	56.	34.	1678.	31456.	5541.	693.	149.	45.	27.	
3	28.	32.	77.	56.	30.	1955.	32191.	5134.	574.	144.	45.	27.	
4	27.	34.	67.	56.	28.	2026.	34132.	4628.	462.	144.	42.	27.	
5	25.	34.	64.	56.	30.	2002.	36740.	4121.	406.	138.	42.	27.	
6	23.	34.	64.	56.	81.	2075.	40948.	3607.	371.	132.	40.	25.	
7	23.	32.	64.	51.	49.	2002.	44854.	3003.	354.	122.	40.	25.	
8	23.	30.	77.	47.	40.	1931.	47971.	2595.	329.	118.	40.	25.	
9	104.	28.	114.	45.	30.	2475.	50033.	2212.	329.	114.	38.	23.	
10	56.	27.	118.	45.	27.	4456.	51172.	1907.	345.	104.	36.	23.	
11	42.	27.	118.	40.	27.	16386.	51363.	1590.	380.	95.	36.	23.	
12	38.	25.	128.	40.	25.	30439.	48904.	1296.	397.	83.	36.	23.	
13	42.	25.	188.	38.	23.	32932.	45945.	1053.	397.	77.	36.	23.	
14	40.	27.	165.	36.	23.	40600.	42352.	870.	371.	73.	36.	25.	
15	36.	28.	188.	56.	21.	44133.	38198.	731.	345.	67.	34.	25.	
16	34.	32.	371.	49.	20.	51938.	33831.	644.	312.	71.	34.	25.	
17	38.	34.	597.	54.	20.	60547.	30008.	633.	296.	71.	34.	23.	
18	34.	28.	798.	45.	21.	65866.	26373.	682.	258.	71.	34.	23.	
19	118.	38.	885.	38.	25.	67223.	22802.	644.	245.	67.	34.	21.	
20	71.	56.	856.	36.	27.	65191.	19901.	644.	232.	64.	34.	21.	
21	49.	51.	742.	38.	30.	60984.	17163.	621.	212.	64.	32.	21.	
22	42.	337.	554.	114.	38.	55635.	14415.	554.	207.	64.	32.	20.	
23	40.	212.	397.	165.	47.	51746.	10612.	510.	201.	59.	30.	18.	
24	40.	296.	266.	83.	49.	52130.	7888.	490.	194.	56.	30.	18.	
25	34.	329.	183.	49.	81.	47971.	6804.	471.	183.	56.	30.	18.	
26	36.	597.	128.	40.	207.	42352.	8219.	471.	176.	49.	30.	18.	
27	32.	520.	99.	40.	354.	36740.	7306.	471.	165.	51.	30.	18.	
28	28.	510.	81.	40.	587.	33230.	8420.	471.	165.	49.	28.	18.	
29	28.	415.	67.	34.	756.	29436.	8286.	462.	160.	49.		18.	
30	27.	296.	67.	30.	975.	28728.	7243.	452.	160.	49.		17.	
31		207.		27.	1022.		6681.		160.	49.		17.	
TOTAL	1211.	4395.	7771.	1621.	4755.	936144.	863085.	52587.	9531.	2648.	1003.	690.	1885441. TON
MEAN	40.	141.	259.	52.	153.	31204.	27841.	1752.	307.	85.	35.	22.	
MAX	118.	597.	885.	165.	1022.	67223.	51363.	6079.	693.	149.	45.	28.	67223.
MIN	23.	25.	64.	27.	20.	1337.	6681.	452.	160.	49.	28.	17.	17.

WATER YEAR 1982

CHI RIVER BASIN

CHI RIVER AT BAN NONG O, CHAIYAPHUM (E.32A)

LOCATION	LAT. 15-54-40 N., LONG. 101-42-40 E., ON LEFT BANK ABOUT 500 METERS NORTH OF BAN NONG O, ABOUT 600 METERS UPSTREAM FROM E.32 GAGING STATION,AMPHOE BAN KHWAO, CHAIYAPHUM.
DRAINAGE AREA	2,906 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.DH-59
PERIOD OF AVAILABLE RECORDS	1968 TO DATE.
ACTUAL MEASUREMENT	1975 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	53.1	8.3	35.7	17.6	22.2	119.6	63523.9	1912.8	131.7	37.2	21.0	15.5		
2	40.4	8.3	34.2	15.5	76.8	127.6	48198.6	1392.2	131.7	37.2	21.0	15.5		
3	31.3	8.3	27.2	17.6	97.1	171.0	49385.2	1129.2	241.6	35.7	21.0	15.5		
4	18.7	6.8	23.4	24.6	58.6	127.6	51567.3	891.7	252.5	34.2	21.0	14.5		
5	13.5	4.3	22.2	18.7	35.7	225.5	18746.0	788.9	180.4	34.2	22.2	14.5		
6	10.7	4.9	93.6	16.5	27.2	776.5	6816.9	727.6	144.3	42.0	22.2	14.5		
7	9.9	4.3	252.5	15.5	24.6	1774.4	4680.2	634.3	123.6	45.3	22.2	13.5		
8	9.1	4.3	199.9	14.5	31.3	13227.4	3807.9	557.5	111.9	64.4	22.2	12.5		
9	9.9	3.2	2031.7	12.5	42.0	50382.0	2758.3	495.3	100.7	61.5	21.0	12.5		
10	11.6	4.9	2955.7	10.7	37.2	92193.0	3042.3	417.7	93.6	47.8	21.0	12.5		
11	9.1	4.3	852.5	11.6	31.3	95738.9	5447.7	390.2	90.1	42.0	18.7	12.5		
12	9.9	4.3	275.2	11.6	29.9	96820.3	9352.2	329.3	90.1	38.8	18.7	11.6		
13	12.5	4.3	166.4	10.7	27.2	53636.1	6935.3	298.7	86.7	35.7	18.7	11.6		
14	16.5	2.7	108.1	11.6	25.9	13399.2	4811.3	281.0	83.3	35.7	17.6	11.6		
15	50.4	3.7	76.8	18.7	25.9	4765.5	3523.2	281.0	73.6	35.7	16.5	9.9		
16	298.7	3.2	73.6	14.5	23.4	3189.1	2460.7	312.8	73.6	32.8	16.5	9.1		
17	115.7	2.7	53.1	11.6	64.4	2758.3	1729.4	329.3	73.6	29.9	16.5	9.1		
18	37.2	4.3	40.4	10.7	111.9	6779.9	1344.0	475.4	70.5	28.6	16.5	9.1		
19	27.2	5.5	34.2	9.1	161.9	17826.2	1144.0	455.8	64.4	28.6	16.5	9.1		
20	31.3	18.7	31.3	16.5	127.6	17305.7	1129.2	346.2	61.5	27.2	16.5	8.3		
21	37.2	8.3	28.6	19.8	108.1	8995.1	14368.3	269.4	61.5	25.9	16.5	8.3		
22	32.8	21.0	24.6	25.9	269.4	6832.1	12361.5	225.5	58.6	25.9	16.5	8.3		
23	24.6	15.5	21.0	31.3	399.3	8761.3	6171.7	210.0	58.6	24.6	15.5	8.3		
24	21.0	38.8	18.7	32.8	321.0	22012.1	7468.8	190.1	55.8	24.6	15.5	8.3		
25	15.5	50.4	17.6	22.2	1983.8	29043.9	6320.5	175.7	55.8	23.4	13.5	8.3		
26	12.5	70.5	15.5	19.8	2154.0	24498.5	7414.4	166.4	55.8	23.4	13.5	7.5		
27	11.6	119.6	16.5	17.6	515.7	45159.5	13227.4	153.0	53.1	23.4	13.5	5.5		
28	9.9	97.1	22.2	15.5	337.7	73415.4	12284.1	140.0	53.1	22.2	12.5	5.5		
29	9.1	111.9	25.9	19.8	247.0	68052.2	7962.4	131.7	47.8	22.2		6.1		
30	9.1	80.0	24.6	19.8	175.7	78260.0	4766.9	131.7	42.0	22.2		6.1		
31		42.0		17.6	140.0		2870.3		37.2	22.2		6.1		
TOTAL	1000.0	766.4	7602.8	532.4	7733.8	836373.5	385619.3	14240.3	2858.7	1034.5	504.5	321.2	1258586.5	TONDAY
MEAN	33.3	24.7	253.4	17.1	249.4	27879.1	12439.3	474.6	92.2	33.3	18.0	10.3		
MAX	298.7	119.6	2955.7	32.8	2154.0	96820.3	63523.9	1912.8	252.5	64.4	22.2	15.5	96820.3	
MIN	9.1	2.7	15.5	9.1	22.2	119.6	1129.2	131.7	37.2	22.2	12.5	5.5	2.7	

WATER YEAR 1982

MUN RIVER BASIN

LAM DOM YAI AT DET UDOM, UBON RATCHATHANI (M.80)

LOCATION	LAT. 14-53-53 N., LONG. 105-05-08 E., ON LEFT BANK ABOUT 20 METERS DOWNSTREAM SIDE OF THE BRIDGE OF BAN THARIK ROAD, AMPHOE DET UDOM, UBON RATCHATHANI.
DRAINAGE AREA	3,363 SQ.KM.
METHOD OF SAMPLING	DEPTH INTEGRATING.
INSTRUMENT USED	US.DH-59
PERIOD OF AVAILABLE RECORDS	1966 TO DATE.
ACTUAL MEASUREMENT	1967 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.6	9.4	7.6	232.8	95.6	857.5	3565.0	330.5	101.8	27.0	11.8	6.7	
2	7.1	8.0	6.7	175.7	84.8	717.0	3271.7	300.6	120.0	24.8	11.8	6.7	
3	6.7	6.7	6.7	122.1	77.4	1323.7	2893.3	268.0	124.2	24.3	11.8	6.7	
4	5.4	7.1	6.7	99.7	170.4	2171.2	2110.0	236.0	105.2	24.3	11.8	6.7	
5	5.4	6.7	6.7	95.6	340.5	2747.7	1848.4	251.9	95.6	23.2	11.3	6.7	
6	5.4	6.7	6.7	109.4	580.0	2985.1	1483.3	274.5	86.1	23.2	11.3	6.7	
7	5.4	6.7	6.7	88.1	398.4	4471.4	1334.1	229.7	79.4	23.2	10.9	6.7	
8	5.8	6.2	7.6	64.4	307.2	7376.8	1249.6	214.0	72.8	22.7	10.4	6.7	
9	6.7	5.4	12.3	51.2	281.0	9668.6	1074.3	196.2	70.9	21.0	10.4	6.7	
10	6.7	5.4	56.8	43.3	303.9	12525.1	977.9	242.3	67.6	20.0	9.9	6.7	
11	8.0	5.8	529.9	46.3	343.9	12208.9	987.9	357.4	64.4	20.0	10.4	6.7	
12	9.0	5.4	552.6	47.5	471.8	10516.3	1063 2	294.0	60.0	20.0	9.9	6.2	
13	9.0	5.8	232.8	44.5	497.6	8864.1	982.9	232.8	55.6	19.4	9.9	6.2	
14	9.0	6.2	130.7	46.3	347.3	7630.9	962.0	196.2	53.1	18.4	9.4	5.0	
15	9.0	5.8	74.2	261.5	232.8	6318.4	789.6	170.4	50.0	17.9	9.4	5.0	
16	11.8	5.8	54.3	426.1	381.2	4829.8	645.6	159.9	47.5	15.8	9.4	5.0	
17	11.8	6.2	43.3	515.5	1334.1	4032.2	548.0	165.1	43.3	15.8	9.4	5.0	
18	11.3	6.2	38.5	617.7	1975.2	3229.3	475.4	193.1	43.3	14.8	9.4	5.0	
19	15.8	6.2	30.4	1027.9	1109.9	2627.8	419.2	193.1	42.1	14.8	9.4	5.0	
20	29.3	6.2	61.9	1027.9	1068.3	2314.9	377.8	184.7	39.7	14.8	8.5	5.0	
21	79.4	6.2	43.3	838.0	702.8	1975.2	443.6	190.1	37.3	14.8	7.6	3.7	
22	54.3	4.1	53.1	1068.3	902.6	1729.7	702.8	187.0	31.6	14.8	7.1	3.7	
23	37.3	3.3	48.7	1271.5	1187.7	1414.2	902.6	170.4	29.3	14.3	7.1	3.7	
24	24.8	3.3	36.2	808.9	1445.0	1393.1	917.4	154.7	27.6	13.8	7.1	3.7	
25	17.4	3.3	27.0	561.7	1323.7	1612.2	857.5	140.1	27.0	13.3	7.1	3.7	
26	17.4	4.1	38.5	426.1	833.2	1948.4	774.3	144.5	28.7	13.3	7.1	3.7	
27	14.3	5.8	38.5	330.5	488.7	2225.8	589.1	144.5	30.4	13.3	7.1	3.7	
28	12.8	6.2	151.8	255.1	405.3	2893.3	484.2	130.7	29.3	13.3	6.7	3.7	
29	11.3	8.0	479.8	207.8	493.2	3574.8	497.6	122.1	29.3	13.3		3.7	
30	9.9	8.5	323.8	151.8	857.5	3732.9	419.2	109.4	28.7	12.8		3.7	
31		8.5		113.6	1213.4		357.4		27.0	11.8		3.7	
TOTAL	465.1	189.2	3113.8	11176.7	20254.3	129916.1	34004.8	6183.8	1748.8	554.2	263.4	161.8	208032.2 TONDA
MEAN	15.5	6.1	103.7	360.5	653.3	4330.5	1096.9	206.1	56.4	17.8	9.4	5.2	
MAX	79.4	9.4	552.6	1271.5	1975.2	12525.1	3565.0	357.4	124.2	27.0	11.8	6.7	12525.1
MIN	5.4	3.3	6.7	43.3	77.4	717.0	357.4	109.4	27.0	11.8	6.7	3.7	3.3

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

PRACHIN BURI RIVER AT KABIN BURI, PRACHIN BURI (KGT.3)

LOCATION	LAT. 13-59-05 N., LONG. 101-42-32 E., ON LEFT BANK INFRONT OF AMPHOE KABIN BURI OFFICE AND ABOUT 500 METERS DOWNSTREAM FROM THE CONFLUENCE OF LAM PRONG AND LAM HANUMAN, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	7,502 SQ.KM.
METHOD OF SAMPLING	POINT METHOD.
INSTRUMENT USED	SOUTH PACIFIC.
PERIOD OF AVAILABLE RECORDS	1964 TO DATE.
ACTUAL MEASUREMENT	1966-1968,1970-1972

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.0	7.8	52.8	365.4	616.9	3203.5	2790.1	694.4	171.5	36.2	7.8	5.1	
2	2.9	4.2	46.7	394.6	820.2	2921.3	2808.8	593.9	230.1	34.2	7.8	18.1	
3	1.2	2.0	46.7	448.3	739.7	2659.2	2833.8	519.4	205.6	31.8	6.9	36.2	
4	1.2	1.2	39.2	704.8	545.1	2347.2	2883.8	453.9	184.4	31.8	6.9	25.4	
5	4.2	0.8	29.8	806.2	568.0	2108.5	2659.2	403.0	169.9	29.8	8.7	16.2	
6	1.2	0.8	27.8	785.2	1084.3	2042.2	2136.2	363.1	161.8	29.8	6.9	11.0	
7	1.2	0.8	24.4	635.4	1611.4	2516.3	1689.1	347.5	153.7	27.8	6.9	7.8	
8	1.2	0.8	25.4	548.0	1563.0	3009.0	1394.0	318.5	144.1	26.4	6.0	6.0	
9	8.7	0.8	44.7	522.2	1500.1	3190.9	1188.5	305.1	131.3	26.4	6.0	4.2	
10	10.1	1.2	80.9	652.7	1321.9	3216.1	1184.3	287.4	121.8	25.4	5.1	2.9	
11	4.2	1.2	132.9	1355.5	1297.9	3423.9	1180.1	278.5	115.5	23.4	5.1	2.0	
12	1.2	2.0	208.8	1176.0	1538.8	3550.2	1146.8	282.9	110.7	22.5	4.2	1.2	
13	7.8	1.2	405.9	955.9	1524.2	3531.2	993.1	267.5	104.4	21.0	6.0	1.2	
14	8.7	1.2	422.8	993.1	1389.2	3524.9	951.8	247.7	93.4	20.1	6.0	1.2	
15	12.9	1.2	365.4	1013.8	1230.9	3455.4	901.2	227.9	87.2	19.1	4.2	1.2	
16	7.8	2.0	291.8	925.9	1088.5	3323.0	851.8	219.2	79.4	18.1	7.8	0.8	
17	6.0	2.0	225.8	855.4	1297.9	3203.5	753.7	219.2	73.2	17.2	11.0	0.8	
18	50.7	8.7	177.9	684.0	1723.2	3027.8	635.4	241.1	71.1	17.2	16.2	0.8	
19	99.7	30.8	134.5	616.9	1694.0	2865.0	556.6	267.5	68.1	16.2	13.9	0.8	
20	112.3	55.8	109.1	823.7	1630.8	2646.8	502.3	374.9	64.0	14.8	11.0	0.8	
21	91.8	56.8	120.2	711.8	2152.8	2341.6	585.3	405.9	58.8	14.8	8.7	0.8	
22	58.8	36.2	165.0	694.4	2921.3	2086.4	684.0	365.4	55.8	12.9	6.9	0.8	
23	45.7	36.2	163.4	795.7	3134.4	2020.1	559.4	300.7	53.8	11.0	6.0	0.8	
24	36.2	59.9	144.1	645.8	3285.3	2097.5	510.8	249.9	50.7	11.0	5.1	0.8	
25	30.8	72.2	125.0	510.8	3499.6	2141.7	530.8	221.4	48.7	11.0	4.2	0.8	
26	29.8	67.0	118.6	420.0	3626.0	2086.4	834.3	205.6	50.7	11.0	6.0	0.8	
27	24.4	91.8	136.1	372.1	3619.7	2163.9	915.3	192.5	49.7	10.1	5.1	0.8	
28	21.0	79.4	161.8	380.5	3556.5	2375.0	816.7	184.4	43.7	8.7	6.9	0.8	
29	17.2	69.1	189.3	389.0	3537.5	2572.2	816.7	176.3	40.7	8.7		0.8	
30	12.0	65.0	241.1	363.1	3505.9	2715.3	823.7	169.9	38.2	8.7		0.8	
31		56.8		356.4	3379.7		827.2		37.2	8.7		0.8	
TOTAL	712.9	816.9	4457.9	20902.5	61004.6	82365.9	37944.7	9384.5	3069.1	605.8	203.3	152.5	221620.8 TONDAY
MEAN	23.7	26.3	148.6	674.2	1967.8	2745.5	1224.0	312.8	99.0	19.5	7.2	4.9	
MAX	112.3	91.8	422.8	1355.5	3626.0	3550.2	2883.8	694.4	230.1	36.2	16.2	36.2	3626.0
MIN	1.2	0.8	24.4	356.4	545.1	2020.1	502.3	169.9	37.2	8.7	4.2	0.8	0.8

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

KHLONG PHRA SATHUNG AT BAN WANG KHIAN, PRACHIN BURI (KGT.10)

LOCATION	LAT. 13-48-29 N., LONG 102-03-35 E., ON LEFT BANK NEAR SAHA CHAROEN SAWMILL, BAN WANG KHIAN, AMPHOE SA KAEO, PRACHIN BURI.
DRAINAGE AREA	2,523 SQ.KM.
METHOD OF SAMPLING	POINT METHOD.
INSTRUMENT USED	SOUTH PACIFIC.
PERIOD OF AVAILABLE RECORDS	1967 TO DATE.
ACTUAL MEASUREMENT	1969-1970,1972 TO DATE

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.4	5.4	23.0	53.9	14.6	834.9	2638.6	163.9	23.0	7.8	4.1	2.1	
2	7.5	4.9	18.4	50.3	12.0	489.5	2542.7	122.0	22.0	8.1	3.9	1.8	
3	8.4	4.1	12.6	46.2	16.0	694.9	1797.6	94.1	21.5	7.8	3.9	1.8	
4	5.6	3.6	10.2	28.5	32.6	743.9	746.9	76.9	21.1	7.8	3.9	1.7	
5	5.1	4.9	10.2	20.6	30.8	717.8	362.8	64.5	20.6	7.5	3.6	1.7	
6	7.0	3.4	11.7	66.9	32.0	1090.0	278.6	63.8	20.6	7.5	3.6	1.5	
7	29.6	7.0	14.2	76.9	36.8	1517.7	248.0	52.5	20.1	7.8	3.4	1.5	
8	12.3	7.3	21.5	48.8	51.7	1623.4	229.0	46.2	19.2	7.8	3.4	1.5	
9	8.4	5.9	15.6	31.4	63.0	1367.2	377.7	44.2	18.0	7.5	3.4	1.5	
10	6.4	4.1	16.8	30.8	76.0	1522.4	454.5	46.8	17.6	7.3	3.4	1.4	
11	5.4	4.1	38.0	33.1	99.9	2155.3	201.8	60.7	16.8	6.7	3.4	1.4	
12	4.4	3.4	86.8	33.1	116.6	2638.6	152.7	43.6	15.6	6.4	3.2	1.3	
13	5.6	3.4	113.5	34.9	104.0	2787.4	145.4	119.8	15.2	5.9	3.2	1.3	
14	4.6	3.6	96.0	28.5	85.0	2127.4	147.8	114.5	14.9	5.9	3.6	1.5	
15	6.4	3.4	75.1	23.5	76.9	862.0	181.6	118.8	14.6	6.2	3.2	1.7	
16	64.5	14.6	51.0	19.2	82.3	566.0	141.8	70.0	13.6	5.9	3.0	1.5	
17	149.1	13.6	32.0	17.6	136.1	629.6	130.7	68.4	12.9	5.6	3.0	1.4	
18	182.8	17.6	20.1	16.4	154.0	1314.5	102.0	189.3	12.0	5.6	3.0	1.3	
19	104.0	22.0	17.2	16.4	218.9	1204.0	79.6	459.1	11.4	5.4	3.2	1.2	
20	48.1	12.9	22.0	28.5	487.1	758.6	68.4	320.9	11.1	5.4	2.9	1.2	
21	33.7	11.1	25.1	62.2	1136.8	1310.2	66.1	240.7	11.1	5.6	2.7	1.0	
22	24.5	9.3	21.1	64.5	1687.6	1389.3	57.7	115.6	10.5	5.6	2.7	1.3	
23	14.6	20.1	16.8	47.4	1901.8	1013.0	62.2	70.8	10.2	5.1	2.5	1.8	
24	23.5	14.9	13.3	38.0	1886.0	965.6	92.3	51.0	10.2	4.9	2.5	1.7	
25	14.9	76.0	11.7	33.1	2448.7	770.3	76.9	41.7	10.2	4.1	2.3	1.5	
26	13.3	81.4	10.8	26.2	2839.5	779.1	116.6	34.3	9.6	3.9	2.3	1.3	
27	11.4	44.2	10.2	19.6	3019.5	764.5	267.2	32.0	9.3	3.9	2.1	1.2	
28	9.3	44.9	10.5	18.0	2735.4	1005.7	348.1	29.0	9.0	3.9	2.1	1.0	
29	7.5	30.8	20.1	21.1	1972.3	1589.1	445.5	26.8	8.7	3.9		0.9	
30	6.4	34.9	45.5	20.1	1371.6	2330.6	405.9	24.0	8.7	3.9		0.8	
31		25.1		17.2	1188.1		213.1		7.8	3.9		0.7	
TOTAL	828.7	541.9	891.0	1072.9	24113.5	37562.4	13179.7	3005.9	447.1	184.6	87.5	43.5	81958.8 TOND
MEAN	27.6	17.4	29.7	34.6	777.8	1252.0	425.1	100.2	14.4	5.9	3.1	1.4	
MAX	182.8	81.4	113.5	76.9	3019.5	2787.4	2638.6	459.1	23.0	8.1	4.1	2.1	3019.5
MIN	4.4	3.4	10.2	16.4	12.0	489.5	57.7	24.0	7.8	3.9	2.1	0.7	0.7

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

KHLONG PHRA PRONG AT BAN KAENG, PRACHIN BURI (KGT.12)

LOCATION LAT. 13-56-02 N., LONG 101-58-41 E., ON LEFT BANK NEAR RAILWAY STATION AT BAN KAENG AND ABOUT 200 METERS UPSTREAM FROM THOT SAPHON SAWMILL, AMPHOE SA KAEO, PRACHIN BURI.

DRAINAGE AREA 1,540 SQ.KM.

METHOD OF SAMPLING POINT METHOD.

INSTRUMENT USED SOUTH PACIFIC.

PERIOD OF AVAILABLE RECORDS 1967 TO DATE.

ACTUAL MEASUREMENT 1969,1970,1972 TO DATE.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.2	4.9	6.2	32.6	33.2	654.4	543.5	126.3	35.3	7.9	4.1	30.0	
2	5.8	4.5	5.5	50.7	32.1	532.2	558.0	116.3	33.2	7.9	3.9	39.1	
3	4.9	3.9	4.9	66.7	30.0	403.2	508.1	108.5	31.6	8.3	4.3	23.9	
4	5.1	3.3	4.7	77.7	27.5	305.7	341.2	97.1	29.5	7.9	4.3	16.5	
5	4.7	2.9	4.3	102.0	30.5	242.1	221.2	86.2	28.7	7.7	5.3	12.3	
6	5.3	2.5	4.1	126.3	40.7	257.2	209.7	79.0	28.7	7.7	4.9	9.6	
7	4.9	2.3	4.9	122.6	75.7	337.0	201.7	73.8	27.1	7.0	4.1	8.8	
8	4.1	2.5	9.0	102.0	136.4	452.7	188.8	73.8	26.3	6.8	3.9	8.3	
9	4.1	3.3	9.6	82.3	160.6	553.2	176.5	72.5	25.5	6.8	4.1	7.9	
10	3.7	3.7	9.0	73.8	155.0	626.6	177.5	75.1	23.9	6.6	3.9	7.2	
11	3.5	3.7	12.3	67.9	143.8	701.6	173.7	77.7	22.7	6.6	3.9	6.2	
12	3.7	3.5	23.1	70.5	150.3	761.1	206.2	73.8	21.9	6.2	4.5	5.3	
13	3.9	3.1	26.3	79.0	180.3	821.3	222.4	67.3	19.6	6.2	4.5	4.7	
14	4.9	3.3	23.5	81.0	201.7	882.6	240.9	62.2	18.4	6.0	5.3	3.7	
15	6.6	3.3	21.5	75.7	190.7	892.1	240.9	57.7	17.6	5.8	8.1	4.1	
16	6.0	2.9	22.3	69.2	164.3	834.2	210.8	55.8	16.9	5.5	12.7	4.3	
17	18.4	2.7	19.2	60.9	155.0	550.0	171.8	55.8	16.1	5.5	14.2	4.1	
18	22.3	2.9	13.0	51.4	172.8	577.4	137.3	55.8	14.6	5.3	10.1	3.9	
19	18.4	3.7	10.1	42.6	176.5	466.1	128.1	55.1	13.0	4.9	9.2	3.9	
20	13.8	5.3	9.0	39.1	192.9	380.5	105.2	58.9	11.6	4.9	8.1	3.9	
21	12.3	6.8	7.9	42.0	300.3	320.4	88.8	57.7	11.2	4.3	7.0	3.7	
22	12.3	6.6	7.0	62.8	439.4	334.2	87.5	53.9	12.3	4.5	6.0	2.9	
23	10.1	7.0	7.2	69.9	553.2	301.7	104.4	51.4	11.6	4.3	6.4	2.5	
24	8.8	9.2	6.4	69.2	657.9	276.2	116.3	51.4	11.6	4.1	6.8	1.9	
25	7.9	9.2	5.8	66.0	719.3	337.0	123.6	50.7	10.8	4.1	7.0	1.9	
26	7.5	8.3	5.5	61.5	759.2	379.1	131.8	49.5	10.1	3.7	8.1	2.1	
27	6.8	8.3	5.8	55.1	801.2	381.9	159.6	46.3	9.9	3.5	7.7	1.9	
28	6.0	8.1	6.8	48.8	836.0	391.8	168.1	45.1	9.6	3.3	8.3	1.7	
29	5.8	7.9	9.0	43.8	848.8	434.9	166.2	42.0	9.2	4.3		1.9	
30	5.8	7.7	22.7	39.1	823.2	490.8	155.9	38.0	8.8	4.3		2.1	
31		8.1		34.2	750.2		137.3		8.3	4.3		1.0	
TOTAL	233.6	155.4	326.6	2066.4	9938.6	14879.1	6402.9	2014.7	575.6	176.2	180.7	231.3	37181.3 TONDAY
MEAN	7.7	5.0	10.8	66.6	320.6	495.9	206.5	67.1	18.5	5.6	6.4	7.4	
MAX	22.3	9.2	26.3	126.3	848.8	892.1	558.0	126.3	35.3	8.3	14.2	39.1	892.1
MIN	3.5	2.3	4.1	32.6	27.5	242.1	87.5	38.0	8.3	3.3	3.9	1.0	1.0

WATER YEAR 1982

PRACHIN BURI RIVER BASIN

HUAI YANG AT BAN THUNG FAEK, PRACHIN BURI (KGT.14)

LOCATION	LAT. 14-09-30 N., LONG. 101-52-52 E., ON LEFT BANK ABOUT 2 KILOMETERS LEFT OF KABIN BURI-NAKHON RATCHASIMA HIGHWAY, BAN THUNG FAEK, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	366 SQ.KM.
METHOD OF SAMPLING	POINT METHOD.
INSTRUMENT USED	SOUTH PACIFIC.
PERIOD OF AVAILABLE RECORDS	1967 TO DATE.
ACTUAL MEASUREMENT	1969-1981.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.51	0.21	1.15	21.63	274.13	35.83	383.09	17.83	4.47	0.93	0.45	0.33	
2	0.72	0.19	1.15	31.89	117.44	33.19	153.41	15.20	18.75	0.93	0.45	0.37	
3	0.49	0.17	1.15	105.50	62.00	91.91	541.57	13.62	6.18	0.93	0.45	0.33	
4	0.41	0.16	1.15	123.57	40.02	43.01	224.67	12.09	4.88	0.93	0.41	0.33	
5	0.37	0.16	0.93	68.20	56.01	102.58	105.50	12.09	3.56	0.93	0.41	0.33	
6	0.29	0.16	0.82	35.83	264.74	650.25	70.31	11.35	2.84	0.93	0.41	0.33	
7	0.37	0.19	0.72	17.83	126.68	874.30	56.01	9.92	2.61	0.93	0.41	0.37	
8	0.45	0.54	0.63	11.35	81.86	534.14	52.42	9.23	2.39	0.82	0.37	0.29	
9	0.41	0.45	4.47	34.50	47.64	293.23	89.36	8.06	2.39	0.82	0.37	0.22	
10	0.82	0.37	21.63	342.80	35.83	914.64	94.48	7.10	2.18	0.82	0.37	0.21	
11	0.82	0.37	12.85	255.46	56.01	1640.75	79.41	6.63	2.18	0.72	0.37	0.21	
12	0.54	0.29	59.98	114.42	70.31	283.63	59.98	6.18	1.97	0.63	0.37	0.21	
13	0.49	0.26	38.54	47.64	46.08	317.70	66.11	6.18	1.77	0.63	0.37	0.21	
14	0.41	0.22	15.20	54.05	33.19	388.97	84.34	6.18	1.77	0.58	0.37	0.22	
15	0.54	0.33	7.10	41.51	25.67	143.13	43.01	6.18	1.64	0.58	0.37	0.21	
16	1.26	0.93	3.08	47.64	21.63	97.07	31.89	5.73	1.51	0.58	0.41	0.21	
17	3.56	1.38	1.97	24.64	332.69	84.34	25.67	5.73	1.51	0.58	0.41	0.21	
18	2.39	1.04	1.26	25.67	317.70	129.81	22.62	5.73	1.38	0.54	0.37	0.21	
19	1.26	0.58	1.15	108.44	179.49	86.84	22.62	5.73	1.26	0.58	0.37	0.21	
20	1.04	0.72	0.93	47.64	278.87	62.00	25.67	5.30	1.26	0.63	0.33	0.19	
21	0.82	0.58	0.82	44.54	1812.35	54.05	34.50	5.30	1.26	0.58	0.33	0.19	
22	0.72	0.54	1.77	117.44	708.55	46.08	31.89	4.07	1.26	0.54	0.33	0.17	
23	0.54	0.54	1.97	46.08	400.81	171.65	54.05	3.56	1.26	0.54	0.33	0.17	
24	0.45	1.26	1.97	28.11	541.57	179.49	41.51	3.56	1.15	0.54	0.33	0.17	
25	0.41	4.07	1.97	20.66	383.09	74.59	84.34	3.32	1.15	0.58	0.29	0.17	
26	0.33	8.06	2.18	16.91	183.46	111.42	89.36	2.84	1.04	0.63	0.29	0.17	
27	0.33	3.32	5.73	16.91	105.50	337.73	41.51	2.61	1.04	0.72	0.29	0.16	
28	0.29	2.39	4.88	21.63	86.84	260.09	31.89	2.39	1.04	0.72	0.29	0.16	
29	0.26	1.77	5.30	17.83	94.48	139.76	26.88	2.39	1.04	0.58		0.14	
30	0.22	1.38	13.62	22.62	64.05	171.65	28.11	2.39	1.04	0.49		0.13	
31		1.15		260.09	46.08		22.62		1.04	0.49		0.13	
TOTAL	22.52	33.78	216.07	2173.03	6894.76	8353.82	2718.80	208.49	78.82	21.43	10.32	6.96	20738.78 TON
MEAN	0.75	1.09	7.20	70.10	222.41	278.46	87.70	6.95	2.54	0.69	0.37	0.22	
MAX	3.56	8.06	59.98	342.80	1812.35	1640.75	541.57	17.83	18.75	0.93	0.45	0.37	1812.35
MIN	0.22	0.16	0.63	11.35	21.63	33.19	22.62	2.39	1.04	0.49	0.29	0.13	0.13

WATER YEAR 1982

PHETCHABURI RIVER BASIN

HUAI MAE PRACHAN AT BAN SA YAI NON, PHETCHABURI (B.6)

LOCATION LAT. 12-55-56 N., LONG. 99-47-05 E., ON LEFT BANK ABOUT 250 METERS UPSTREAM FROM THE BRIDGE OF KHUAN PHET-KAENG KRACHAN RESERVOIR ROAD, AMPHOE THA YANG, PHETCHABURI.

DRAINAGE AREA 1,015 SQ.KM.

METHOD OF SAMPLING POINT METHOD.

INSTRUMENT USED SOUTH PACIFIC.

PERIOD OF AVAILABLE RECORDS 1966 TO DATE.

ACTUAL MEASUREMENT 1966-1978.

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1982 TO MARCH 31, 1983

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.51	0.51	7.77	0.82	3.12	0.82	1.71	8.25	2.86	0.04	0.01	0.00	
2	1.51	0.51	6.14	0.71	2.61	0.82	1.51	7.29	2.14	0.04	0.01	0.00	
3	1.31	0.51	5.15	0.61	2.61	0.61	1.18	6.83	1.92	0.04	0.01	0.00	
4	1.31	0.51	5.47	0.61	2.61	0.51	1.31	6.83	1.71	0.04	0.01	0.00	
5	1.06	0.51	5.47	0.51	2.61	0.42	1.31	6.14	3.94	0.04	0.01	0.00	
6	1.06	0.51	13.36	0.51	2.14	0.42	2.86	4.53	3.12	0.04	0.01	0.00	
7	1.06	0.51	11.95	0.42	1.71	0.42	3.12	3.66	2.37	0.04	0.01	0.00	
8	1.06	0.61	9.77	0.42	1.51	0.34	2.86	3.66	1.71	0.04	0.01	0.00	
9	1.06	0.51	11.39	1.18	1.31	0.42	2.37	3.66	1.31	0.04	0.01	0.00	
10	1.06	0.51	8.25	6.83	1.31	0.42	2.86	24.79	1.31	0.04	0.01	0.00	
11	1.06	0.51	6.83	17.16	1.31	0.42	2.61	502.34	1.18	0.04	0.01	0.00	
12	1.06	0.42	5.14	426.05	1.31	0.42	3.66	251.81	0.94	0.03	0.01	0.00	
13	1.06	0.42	6.14	169.01	1.06	0.34	20.61	123.73	0.71	0.02	0.01	0.00	
14	1.06	0.51	4.53	50.90	1.06	0.42	31.80	154.56	0.61	0.02	0.01	0.00	
15	1.18	0.51	3.66	31.80	0.61	0.71	45.10	1607.75	0.61	0.02	0.01	0.00	
16	1.51	0.51	3.12	20.61	0.61	1.31	28.12	974.74	0.61	0.02	0.01	0.00	
17	15.60	0.34	2.61	13.36	0.51	9.25	20.61	293.93	0.51	0.02	0.01	0.00	
18	14.84	0.34	2.14	8.75	0.42	26.99	17.16	145.20	0.42	0.02	0.01	0.00	
19	7.29	0.34	1.71	6.83	0.42	19.61	14.09	88.16	0.34	0.02	0.01	0.00	
20	3.66	1.31	1.51	5.80	0.42	9.25	7.77	63.32	1.18	0.02	0.01	0.00	
21	2.37	2.37	1.51	11.39	0.42	5.80	5.15	40.46	0.34	0.02	0.01	0.00	
22	1.92	1.06	1.51	6.14	0.42	4.53	3.94	29.27	0.34	0.02	0.01	0.00	
23	1.51	0.82	1.31	7.29	0.42	3.66	3.66	20.61	0.27	0.02	0.01	0.00	
24	1.18	0.71	1.31	7.77	0.51	3.66	7.29	15.60	0.24	0.01	0.01	0.00	
25	0.94	4.84	1.31	20.61	0.61	3.38	7.29	11.39	0.21	0.01	0.01	0.00	
26	0.94	3.66	1.18	16.37	0.61	2.86	6.83	8.75	0.21	0.01	0.01	0.00	
27	0.94	2.86	1.06	9.77	0.51	2.14	7.77	6.83	0.16	0.01	0.01	0.00	
28	0.94	2.37	0.82	6.83	0.51	1.71	7.29	5.47	0.16	0.01	0.00	0.00	
29	0.82	3.94	0.82	5.47	0.42	1.71	8.75	4.23	0.04	0.01		0.00	
30	0.61	6.14	0.82	4.53	0.42	1.71	8.75	3.66	0.04	0.01		0.00	
31		8.25		3.66	0.42		9.77		0.04	0.01		0.00	
TOTAL	72.49	47.43	134.76	862.72	34.54	105.08	289.11	4427.44	31.55	0.77	0.27	0.00	600[illegible].16 TONDAY
MEAN	2.42	1.53	4.49	27.83	1.11	3.50	9.33	147.58	1.02	0.02	0.01	0.00	
MAX	15.60	8.25	13.36	426.05	3.12	26.99	45.10	1607.75	3.94	0.04	0.01	0.00	16[illegible]7.75
MIN	0.61	0.34	0.82	0.42	0.42	0.34	1.18	3.66	0.04	0.01	0.00	0.00	0.00