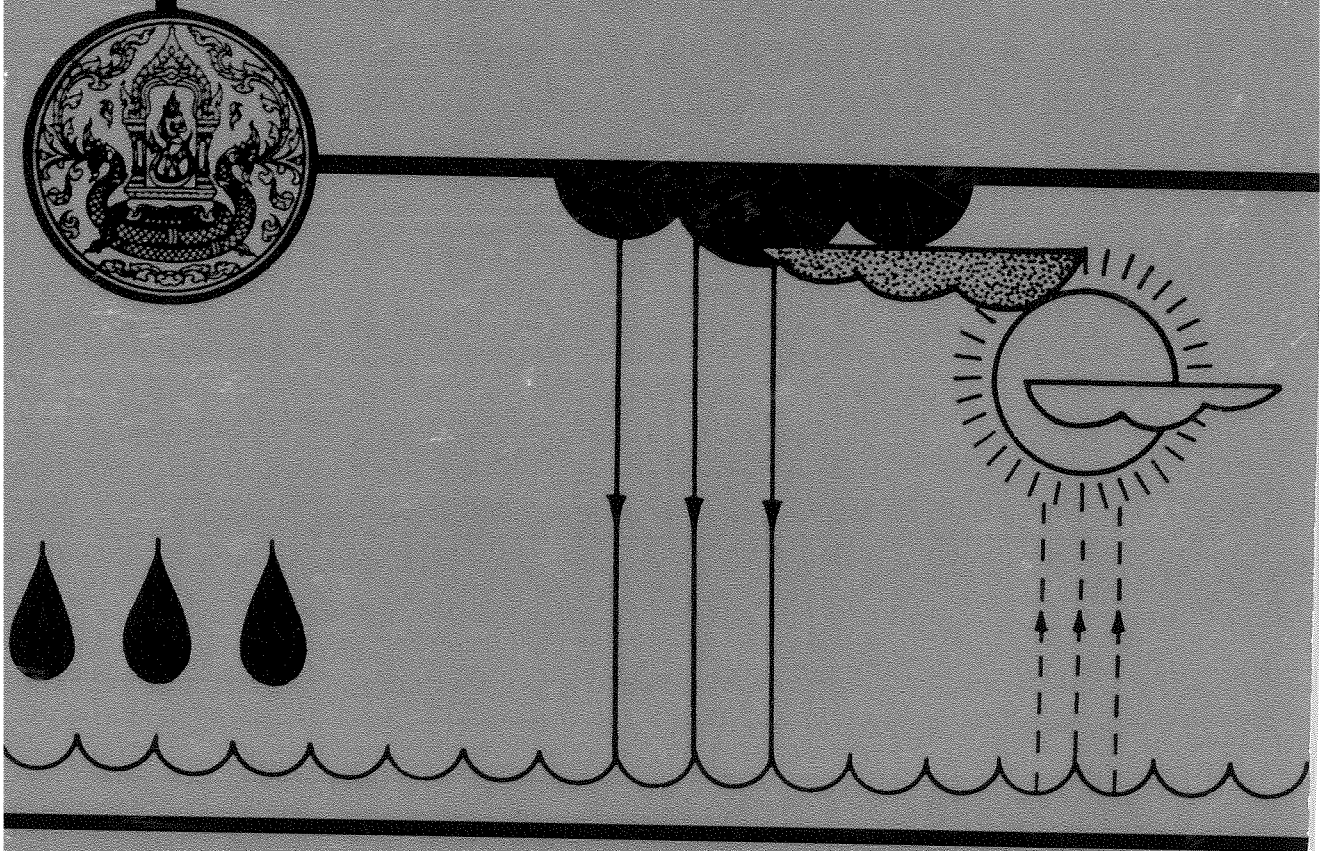
THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1981

VOLUME 24



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

275

THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1981
VOLUME 24

Hydrology No. 663/84

Thailand

Hydrological Yearbook

Water Year 1981

Volume 24

Royal Irrigation Department
Hydrology Division
Bangkok

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 processed 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 22 volumes of yearbooks presenting streamflow data as early as 1912 up to 1980 totalling 4,082 station-years of record had been published.

This Volume 24 which is the twenty-fourth issue of the series, was prepared by the Data Processing Section. It presents records, during the 1981 water year, of stage and discharge of 146 streams at 164 currently calibrating sites and at 49 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division
November 1983

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 in setting 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 Section, Program Coordination and Budget Division, and his efficient staff whose kind assistance and co-ordinated effort have contributed to the success of this Volume 24 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

Page

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

WANG RIVER BASIN

23. Wang River at Lampang, Lampang (W.1A) 46
24. Wang River at Ban Don Chai, Lampang (W.3A) 48
25. Wang River at Ban Wang Man, Tak (W.4A) 50
26. Wang River at Kiu Lom, Lampang (W.10A) 52
27. Nam Mae Tui at Ban Hong, Lampang (W.14A) 54
28. Nam Mae Chang at Ban Sop Po, Lampang (W.15A) 56
29. Wang River at Ban Hai, Lampang (W.16) 58
30. Nam Mae Sai at Ban Nong Now, Lampang (W.17) 60

YOM RIVER BASIN

31. Yom River at Ban Nam Khong, Phrae (Y.1C) 62
32. Yom River at Sawankhalok, Sukhothai (Y.3A) 64
33. Yom River at Ban Kaeng Luang, Sukhothai (Y.6) 66
34. Ngao River at Ngao, Lampang (Y.13) 68
35. Yom River at Ban Don Rabiang, Sukhothai (Y.14) 70
36. Yom River at Ban Ngao Sak, Phrae (Y.20) 72
37. Nam Pi at Ban Mang Phayao (Y.24) 74
38. Nam Mae Suat at Ban Pa Kha Noi, Nan (Y.25) 76
39. Nam Mae Mok at Ban Mae Phu, Lampang (Y.26) 78

NAN RIVER BASIN

40. Nan River at Nan, Nan (N.1) 80
41. Nan River at Uttaradit, Uttaradit (N.2B) 82
42. Nan River at Phichai, Uttaradit (N.4A) 84
43. Nan River at Phitsanulok, Phitsanulok (N.5A) 86
44. Nan River at Phichit, Phichit (N.7) 88
45. Nan River at Taphan Hin, Phichit (N.10A) 90
46. Nan River at Ban Hat Phai, Uttaradit (N.12A) 92

Page

47. Nan River at Ban Mon, Nan (N.17) 94
48. Khwae Noi at Ban Yang, Phitsanulok (N.22) 96
49. Khek River at Ban Wang Nok Aen, Phitsanulok (N.24) 98
50. Nan River at Tron, Uttaradit (N.26) 100
51. Nan River at Phrom Phiram, Phitsanulok (N.27A) 102
52. Khlong Tron at Ban Na Klam, Uttaradit (N.28B) 104
53. Nam Pat at Ban Wang Bang, Uttaradit (N.33) 106
54. Nan River at Kaeng Sarang, Nan (N.35) 108
55. Khwae Noi at Ban Nong Krathao, Phitsanulok (N.36) 110
56. Khwae Noi at Ban Nong Bon, Phitsanulok (N.40) 112
57. Nam Wa at Ban Hat Khao San, Nan (N.42) 114
58. Nam Hao at Ban Na Phuak, Nan (N.44) 116
59. Nam Yao at Ban Nam Yao, Nan (N.49) 118
60. Huai Nam Yao at Ban Wang Hit, Nan (N.51) 120
61. Khlong Butsabong at Ban Huai Tum, Phetchabun (N.53) 122

CHAO PHRAYA RIVER BASIN

62. Chao Phraya River at Nakhon Sawan, Nakhon Sawan (C.2). . . 124
63. Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A) 126
64. Chao Phraya River at Ban Re Rai, Chai Nat (C.13) 128

SAKAE KRANG RIVER BASIN

65. Nam Wang Ma at Ban SanChao Kai To, Nakhon Sawan (Ct.4) . . 130
66. Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A) . . 132
67. Khlong Pho at Ban Hang Rai, Nakhon Sawan (Ct.7) 134
68. Huai Thap Salao at Ban Bung Ai Chiam, Uthai Thani (Ct.9). . . 136

PASAK RIVER BASIN

69. Pa Sak River at Phetchabun, Phetchabun (S.4B) 138
70. Huai Muak Lek at Muak Lek, Saraburi (S.7) 140
71. Pa Sak River at Ban Muang Nua, Saraburi (S.9) 142
72. Nam Phung at Ban Nam Khop, Phechabun (S.10) 144
73. Lam Kong at Ban Wang Tha Di, Phetchabun (S.12) 146
74. Lam Sonthi at Ban Tha Yiam, Lop Buri (S.13) 148
75. Lam Sonthi at Ban Na Som, Lop Buri (S.14) 150
76. Huai Wang Chomphu at Ban Wang Chomphu, Phetchabun (S.15) . . 152
77. Huai Na at Ban Huai Na, Phetchabun (S.16) 154
78. Huai Nam Chun at Ban Fai Wang Bon, Phetchabun (S.17) 156
79. Huai Nam Duk at Ban Pak Chong, Phetchabun (S.18) 158

Page

SALAWIN RIVER BASIN

80. Huai Mae Lamao at Ban Ko Ko, Tak (Sw.1) 160
81. Huai Mae Lamao at Ban Mae Lamao, Tak (Sw.6) 162

MAE KHONG RIVER BASIN

82. Huai Mong at Ban Na Ang, Udon Thani (Kh.18) 164
83. Huai Nam Phung at Ban Tao Ngoi, Sakon Nakhon (Kh.21B) .. 166
84. Loei River at Ban Sai Khao, Loei (Kh.43) 168
85. Loei River near Ban Sai Khao, Loei (Kh.43A) 170
86. Huai Luang at Nong Wua So, Udon Thani (Kh.53) 172
87. Huai Nam Man at Ban Pong Bia, Loei (Kh.57) 174

CHI RIVER BASIN

88. Chi River at Kosum Phisai, Maha Sarakham (E.1) 176
89. Chi River at Yasothon, Yasothon (E.2) 178
90. Chi River at Ban Non Puai, Chaiyaphum (E.5) 180
91. Huai Tat Ton at Ban Tat Ton, Chaiyaphum (E.6C) 182
92. Chi River at Ban Tha Khon Yang, Maha Sarakham (E.8A) . .. 184
93. Chi River at Ban Tha Phra, Khon Kaen (E.16A) 186
94. Nam Phong at Ban Tha Hin, Khon Kaen (E.17) 188
95. Chi River at Ban Tha Sabaeng, Roi Et (E.18) 190
96. Chi River at Maha Chana Chai, Yasothon (E.20A) 192
97. Chi River at Ban Kaeng Ko, Chaiyaphum (E.21) 194
98. Chi River at Ban Khai, Chaiyaphum (E.23) 196
99. Lam Phan at Ban Hua Khua, Kalasin (E.26) 198
100. Lam Nam Phong at Ban Pha Nok Khao, Loei (E.29) 200
101. Chi River at Ban Nong O, Chaiyaphum (E.32A) 202
102. Nam Yang at Ban Nong Saeng Thung, Roi Et (E.33A) 204
103. Huai Prong Khin Phet at Ban Thap Nai, Chaiyaphum (E.35A) .. 206
104. Lam Kachuan at Ban Tha Bon, Chaiyaphum (E.36A) 208
105. Lam Nam Choen at Ban Don Han, Khon Kaen (E.38) 210
106. Lam Chi Long at Ban Kut Yang, Chaiyaphum (E.49) 212
107. Nam Yang at Ban Kaeng Yao, Kalasin (E.54) 214
108. Lam Khan Chu at Ban Kok Phangat, Chaiyaphum (E.60) 216

MUN RIVER BASIN

109. Mun River at Ban Ta Kut Khon, Nakhon Ratchasima (M.2). .. 218
110. Mun River at Rasi Salai, Si Sa Ket (M.5) 220
111. Mun River at Satuk, Buri Ram (M.6A) 222

Page

112. Mun River at Ubon Ratchathani, Ubon Ratchathani (M.7) . . 224
113. Huai Samran at Si Sa Ket, Si Sa Ket (M.9) 226
114. Lam Chi at Ban Lam Chi, Surin (M.26) 228
115. Lam Se Bai at Ban Nong Bua, Yasothon (M.32) 230
116. Lam Sieo Noi at Ban Yang Loeng, Roi-Et (M.35) 232
117. Lam Takhong at Ban Khlong Phai, Nakhon Ratchasima (M.38C) . 234
118. Lam Sieo Yai at Kaset Wisai, Roi Et (M.41) 236
119. Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42) . . 238
120. Lam Takhong at Ban Mu Si, Nakhon Ratchasima (M.43) 240
121. Mun River at Ban Chorakhe Hin, Nakhon Ratchasima (M.49) . . 242
122. Mun River at Ban Na, Nakhon Ratchasima (M.49B) 244
123. Lam Sae at Khon Buri, Nakhon Ratchasima (M.50) 246
124. Huai Khayung at Ban Nam Om, Si Sa Ket (M.66) 248
125. Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69) . . 250
126. Huai Kwang at Ban Kaeng Yang, Ubon Ratchathani (M.75) . . 252
127. Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80) 254
128. Lam Sae at Ban Map Krat, Nakhon Ratchasima (M.81) 256
129. Lam Chi at Ban Charok Yai, Buri Ram (M.85) 258
130. Lam Takhong at Pak Chong, Nakhon Ratchasima (M.89) 260
131. Huai Samran at Ban Tamuan, Si Sa Ket (M.91) 262
132. Lam Phang Chu at Ban Hua Saphan, Buri Ram (M.92) 264
133. Huai Seo at Ban Pan Ro, Buri Ram (M.93) 266
134. Huai Tha at Ban Alang, Si Sa Ket (M.98) 268
135. Huai Tako at Ban Khok Kacha, Buri Ram (M.99) 270
136. Huai Saneng at Ban Bu Chek, Surin (M.100) 272
137. Huai Thap Than at Ban Yaeng, Surin (M.101) 274
138. Huai Sen at Ban Phon Chai, Surin (M.102) 276
139. Lam Phang Chu at Ban Mek Dam, Maha Sarakham (M.107) . . 278
140. Lam Phang Chu at Ban Sa Khut, Surin (M.108) 280

TONLE SAP BASIN

141. Huai Phrom Hot at Ban Dan, Prachin Buri (TL.1) 282

PRACHIN BURI RIVER BASIN

142. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3) 284
143. Khlong Phra Sathung at Ban Khao Chakan, Prachin Buri (Kgt.9) . 286
144. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10) . 288
145. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12) 290
146. Khlong Phra Prong at Ban Nang Leng, Prachin Buri (Kgt.13) . . 292
147. Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14) 294
148. Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt.15A) . . 296

Page

149. Khlong Si Yat at BanTha Kloi, Chachoengsao (Kgt.18) 298
150. Khlong Luang at Ban Mai, Chon Buri (Kgt.19) 300
151. Prachantakham River at BanTakhro, Prachin Buri (Kgt.24) . .. 302
152. Khlong Rabom at Ban Cham Pa Ngam, Chachoengsao (Kgt.25) .. 304

EAST COAST - GULF BASIN

153. Khlong Nong Pla Lai at Ban Nong Mapring, Rayong (Z.4). .. 306
154. Khlong Prasae at Ban Yang Ngam, Rayong (Z.5) 308
155. Khlong Yai at BanSi Bua Thong, Trat (Z.10) 310
156. Chanthaburi River at Ban Puk, Chanthaburi (Z.13).. 312
157. Khlong Yai at Ban Pak Phraek, Rayong (Z.15) 314
158. Khlong Phlo at Ban Ra-Ok, Rayong (Z.16) 316

MAE KLONG RIVER BASIN

159. Khwae Noi at Ban Lum Sum, Kanchanaburi (K.10) 318
160. Mae Klong River at BanWang Khanai, Kanchanaburi (K.11) .. 320
161. Lam Phachi at Ban Bo, Ratchaburi (K.17) 322
162. Huai Mae Nam Noi at Tha Thung Na, Kanchanaburi (K.22A) .. 324
163. Khwae Yai at Ban Lat Ya, Kanchanaburi (K.26) 326
164. Lam Taphoen at Ban Wang Yai, Kanchanaburi (K.27) 328

PHETCHABURI RIVER BASIN

165. Phetchaburi River at Ban Tha Sik, Phetchaburi (B.2A) 330
166. Phetchaburi River at Ban Song Phi Nong, Phetchaburi (B.3) .. 332
167. Phetchaburi River at BanWang Won, Phetchaburi (B.5) 334
168. Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6) . .. 336
169. Huai Mae Prachan at Ban Nong Bua, Phetchaburi (B.7) 338
170. Huai Phak at Ban Kariang, Phetchaburi (B.8) 340

PRAN RIVER BASIN

171. Pran Buri River at Pran Buri Damsite, Prachuap Khiri Khan (Pr.3A) 342

WEST COAST - GULF BASIN

172. Khlong Kui at Ban Pong Kasang, Prachuap Khiri Khan (Ky.2) .. 344
173. Khlong Bung at Ban Wang Sai Ding, Prachuap Khiri Khan (Gt.5). 346
174. Huai Yang Khwang at Ban Rai Nai, Prachuap Khiri Khan (Gt.6). 348
175. Khlong Bang Saphan Yai at Ban Wang Yao, Prachuap Khiri Khan (Gt.7) 350

Page

176. Khlong Wa Thon at Ban Rai Khlong, Prachuap Khiri Khan (Gt.8) 352
177. Khlong Thap Sakae at Ban Klang, Prachuap Khiri Khan (Gt.9) . . 354
178. Khlong Krut at Ban Nong Ya Plong, Prachuap Khiri Khan (Gt.10) 356
179. Huai Yang at Ban Chang Laek, Prachuap Khiri Khan (Gt.11) . . 358

SOUTHERN PENINSULA EAST COAST

180. Khlong Rap Ro at Ban Hat Taeng, Chumphon (X.46A) 360
181. Khlong Chumphon at Ban Siap Yuan, Chumphon (X.53) 362
182. Khlong Tha Sae at Tha Sae, Chumphon (X.64) 364
183. Khlong Phum Duang at Ban Tha Tun, Surat Thani (X.6B) 366
184. Tapi River at Phrasaeng, Surat Thani (X.37A) 368
185. Khlong Phum Duang at Ban Ta Khun, Surat Thani (X.38A) 370
186. Khlong Saeng at Ban Khao Phang, Surat Thani (X.39) 372
187. Khlong Sok at Ban Lang Tham, Surat Thani (X.58) 374
188. Khlong Yan at Ban Nam Hak, Surat Thani (X.92) 376
189. Khlong Tan at Wiang Sa, Surat Thani (X.99) 378
190. Khlong Takhian at Ban Rim Khlong, Surat Thani (X.103) 380
191. Khlong Tha Krachai at Ban Samo Thong, Surat Thani (X.104) . . 382
192. Khlong Chaiya at Ban Muang, Surat Thani (X.106) 384
193. Khlong Tha Thon at Ban Nam Cha, Nakhon Si Thammarat (X.101) 386
194. Khlong Sang at Ban Thang Kham, Nakhon Si Thammarat (X.102A) 388
195. Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105) 390
196. Khlong Tha Khae at Ban Tha Khae, Phatthalung (X.68) 392
197. Khlong Bang Kaeo at Ban Khuan In No Mo, Phatthalung (X.109). 394
198. Khlong Na Thawi at Ban Pa Kan, Songkhla (X.42) 396
199. Khlong U Taphao at Ban Khok Samet Chum, Songkhla (X.44) . . 398
200. Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67) . . 400
201. Khlong Tham at Khuan Lang, Songkhla (X.71) 402
202. Khlong U Taphao at Ban Bang Sala, Songkhla (X.90) 404
203. Khlong Sadao at Ban Phrai, Songkhla (X.111) 406
204. Khlong Lam at Ban Prik (I), Songkhla (X.112) 408
205. Khlong Lam at Ban Thung Prap (I), Songkhla (X.113) 410
206. Pattani River at Yala, Yala (X.40) 412
207. Kolok River at Sungai Kolok, Narathiwat (X.119) 414
208. Khlong Waeng at Waeng, Narathiwat (X.121) 416

SOUTHERN PENINSULA WEST COAST

209. Khlong Ao Yon at Ban Ao Yon, Phuket (X.97) 418
210. Trang River at BanTha Pradu, Trang (X.56) 420
211. Khlong Chi at Ban Khlong Chi, Trang (X.107) 422
212. Khlong Kalase Yai at Ban Rom Muang, Trang (X.108) 424

Page

213. Khlong Lamphu La at Ban Thung Ngiu, Trang (X.110) 426

LOCATION MAP OF HYDROLOGIC OBSERVATION STATIONS IN 1981 WATER YEAR

SUSPENDED SEDIMENT STATION

1. Ping River at BanTha Sala, Chiang Mai (P.19A) 428
2. Nam Mae Kuang at Ban Pha Taek, Chiang Mai (P.34) 431
3. Yom River at Ban Don Rabiang, Sukhothai (Y.14) 434
4. Nam Pat at Ban Wang Bang, Uttaradit (N.33) 437
5. Chao Phraya River at Nakhon Sawan, Nakhon Sawan (C.2) . . 440
6. Pa Sak River at Ban Muang Nua, Saraburi (S.9) 443
7. Chi River at Ban Nong O, Chaiyaphum (E.32A) 446
8. Lam Dom Yai at Det Udom, Ubon Ratchathani (M.80) 449
9. Prachin Buri River at Kabin Buri, Prachin Buri (Kgt.3) . . . 452
10. Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10) . 455
11. Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12) . . . 458
12. Huai Yang at Ban Thung Faek, Prachin Buri (Kgt.14) 461
13. Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6) . . . 464

* *** * *** *

ILLUSSTRATION OF STREAM GAGING ACTIVITIES

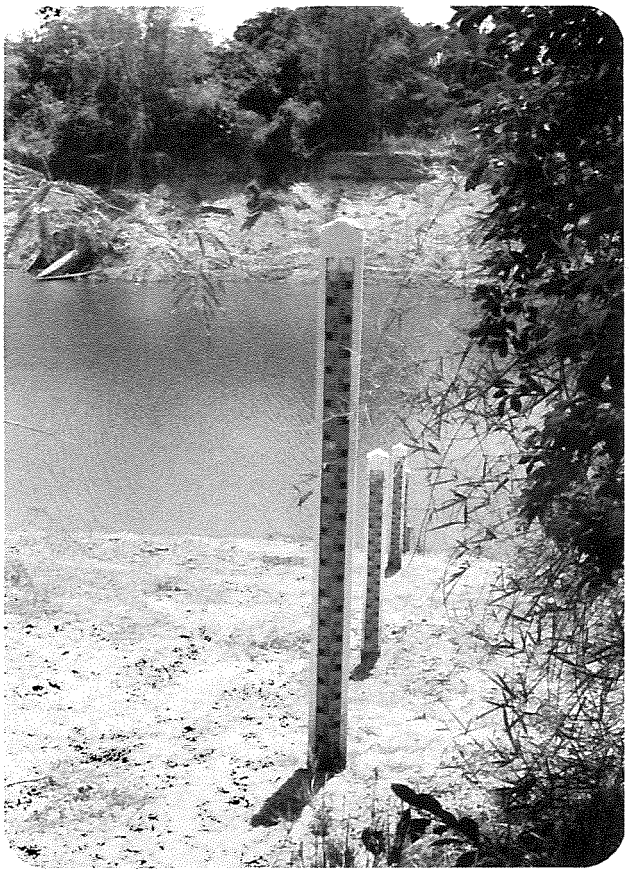


Fig. 1 Typical vertical staff gage

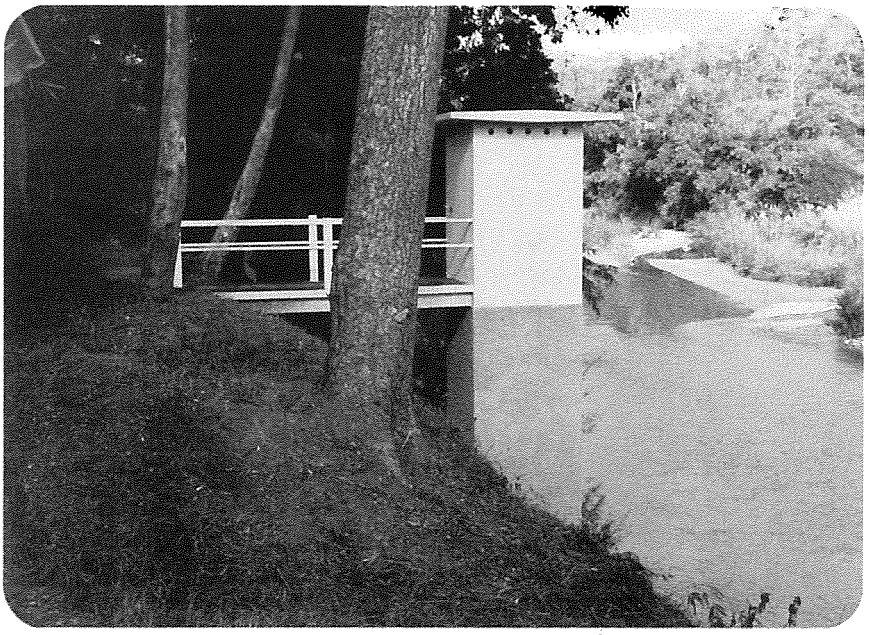


Fig. 2 Typical shelter for water level recorder (Float Type)





Fig. 3 Standard bench mark

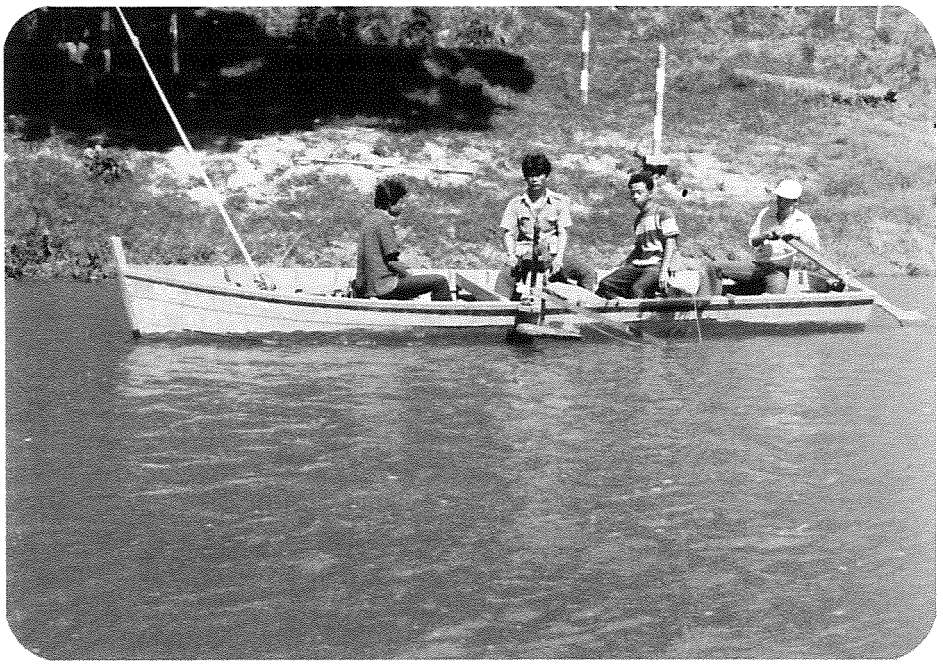


Fig. 4 Close-up of rating operation



Fig. 5 Standard hydrologic equipment

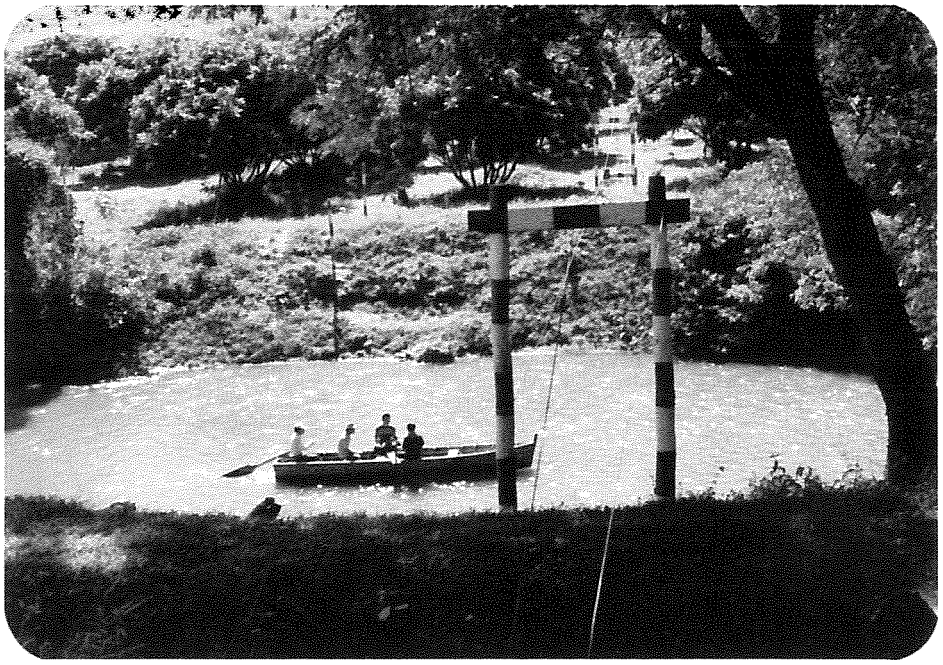


Fig. 6 Measuring line

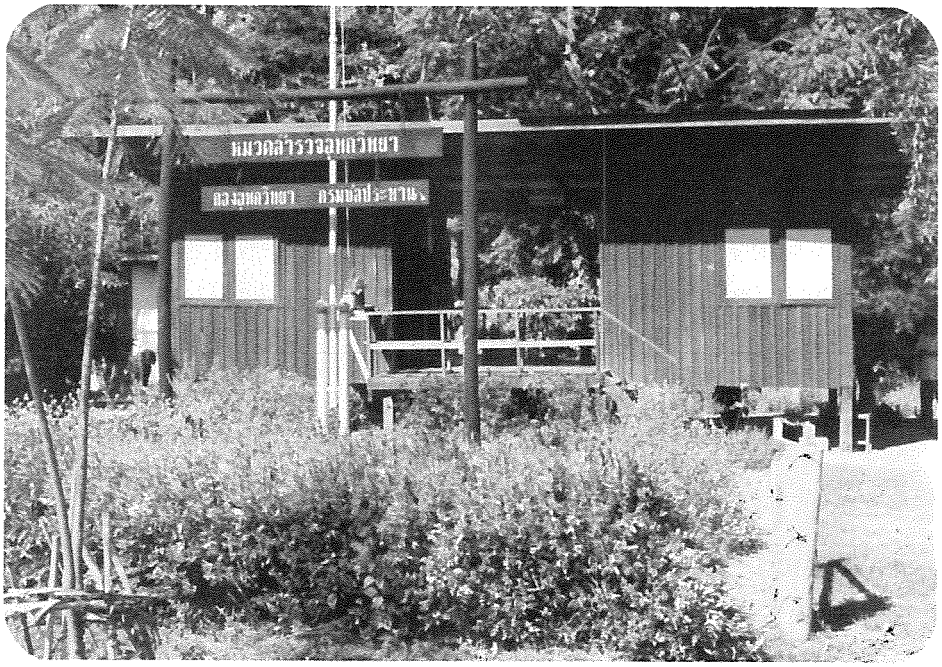


Fig. 7 Camp for hydrological station

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

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

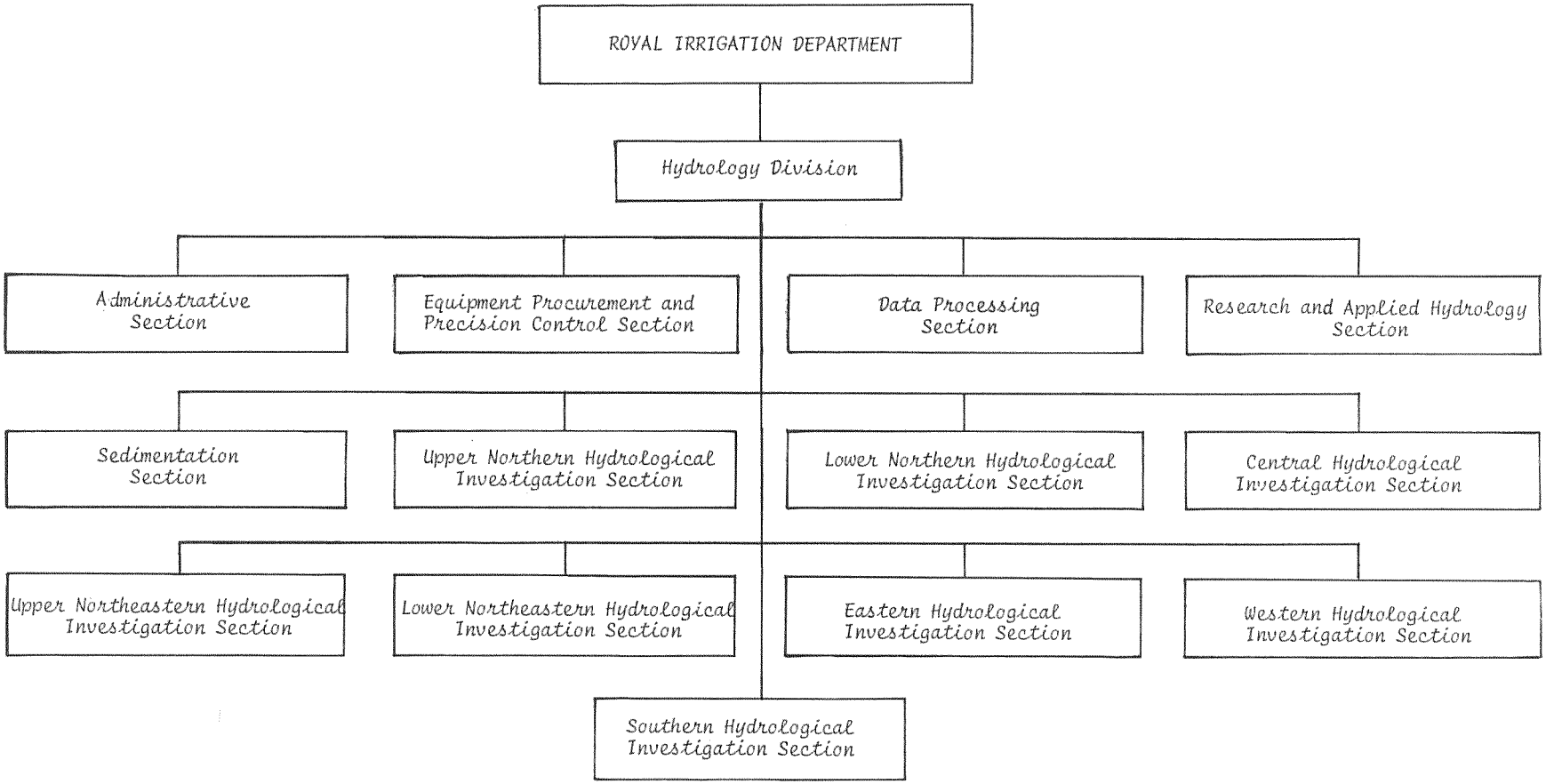
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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

* * * * * * * *

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 Oraanization, 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)

* * * * * * * *

Stream Gaging Data

Water Year 1981

WATER YEAR 1981

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 AT — +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 — 1917 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 35 DISCHARGE MEASUREMENTS MADE IN 1981. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 11,200 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

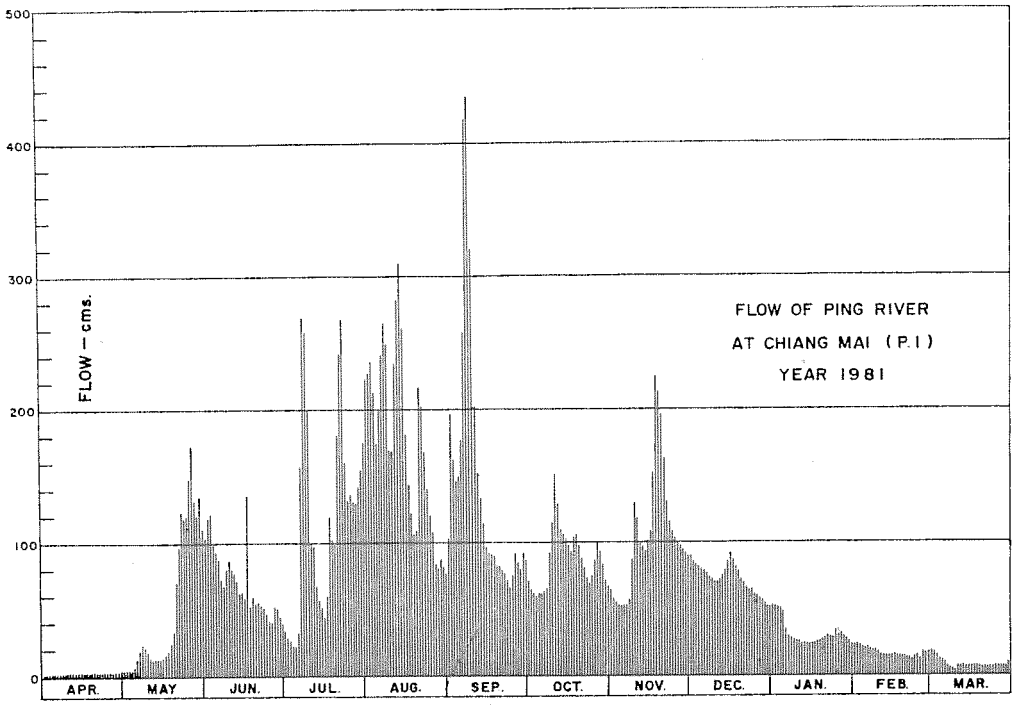
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	300.50	301.13	302.13	301.63	303.05	302.08	301.93	301.85	302.01	301.80	301.56	301.49	
2	300.50	301.15	302.26	301.59	303.08	302.87	301.88	301.82	301.99	301.79	301.56	301.47	
3	300.49	301.17	302.29	301.56	303.15	302.61	301.84	301.81	301.97	301.79	301.54	301.44	
4	300.49	301.18	302.13	301.55	302.97	302.48	301.83	301.80	301.96	301.77	301.53	301.35	
5	300.49	301.24	302.05	301.54	302.70	302.53	301.85	301.80	301.95	301.69	301.53	301.40	
6	300.48	301.45	302.00	301.65	302.81	302.82	301.85	301.80	301.94	301.63	301.51	301.35	
7	300.47	301.50	301.92	302.19	303.20	303.55	301.85	301.79	301.94	301.61	301.51	301.27	
8	300.46	301.57	301.88	303.38	303.35	304.35	301.88	301.82	301.92	301.59	301.51	301.22	
9	300.45	301.54	301.94	303.27	303.22	304.45	302.01	301.99	301.91	301.59	301.50	301.22	
10	300.96	301.48	302.00	302.29	302.65	303.73	302.34	302.36	301.90	301.58	301.48	301.25	
11	300.96	301.42	301.95	302.09	302.66	302.97	302.52	302.26	301.90	301.58	301.46	301.29	
12	300.95	301.43	301.93	302.07	303.29	302.57	302.35	302.11	301.91	301.57	301.45	301.28	
13	300.95	301.42	301.88	301.91	303.66	302.41	302.19	302.06	301.93	301.57	301.45	301.29	
14	300.94	301.40	301.85	301.81	303.27	302.26	302.14	302.03	301.95	301.57	301.44	301.28	
15	300.94	301.41	301.86	301.78	302.72	302.09	302.11	302.03	302.01	301.57	301.44	301.28	
16	300.97	301.43	301.81	301.73	302.48	302.04	302.08	302.19	302.03	301.56	301.46	301.28	
17	300.95	301.48	302.40	301.82	302.28	302.03	302.02	302.53	302.00	301.57	301.46	301.30	
18	300.94	301.52	301.80	302.25	302.16	302.03	302.13	303.06	301.96	301.58	301.44	301.27	
19	300.93	301.56	301.84	302.13	302.19	301.97	302.14	302.99	301.94	301.58	301.43	301.24	
20	300.93	301.65	301.80	302.09	302.63	301.97	302.09	302.85	301.92	301.60	301.43	301.22	
21	300.98	301.90	301.80	302.57	303.01	301.95	302.03	302.51	301.90	301.63	301.42	301.21	
22	301.00	301.91	301.81	303.19	302.88	301.94	301.97	302.33	301.87	301.63	301.42	301.21	
23	300.97	302.31	301.79	303.37	302.66	301.91	301.94	302.23	301.86	301.61	301.42	301.21	
24	300.95	302.25	301.77	302.58	302.44	301.88	301.90	302.16	301.87	301.60	301.42	301.23	
25	300.96	302.29	301.74	302.35	302.28	301.94	301.92	302.13	301.84	301.65	301.44	301.24	
26	300.96	302.50	301.70	302.41	302.17	302.03	301.98	302.10	301.83	301.66	301.39	301.26	
27	300.98	302.69	301.79	302.36	302.02	301.99	302.10	302.07	301.83	301.63	301.44	301.29	
28	301.01	302.38	301.78	302.36	301.96	301.95	302.05	302.05	301.82	301.61	301.48	301.32	
29	301.08	302.29	301.73	302.48	301.99	302.03	301.98	302.04	301.80	301.60		301.33	
30	301.15	302.39	301.69	302.54	301.97	302.00	301.92	302.02	301.79	301.57		301.38	
31		302.22		302.71	301.94		301.88		301.79	301.56		301.41	
MEAN	300.83	301.72	301.91	302.23	302.67	302.45	302.02	302.15	301.91	301.62	301.47	301.30	
MAX	301.15	302.69	302.40	303.38	303.66	304.45	302.52	303.06	302.03	301.80	301.56	301.49	304.45
MIN	300.45	301.13	301.69	301.54	301.94	301.88	301.83	301.79	301.79	301.56	301.39	301.21	300.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 304.58 M (MSL), AT 1.00 HOURS, ON SEP 9, 1981

ZERO GAGE AT BOTTOM ELEVATION 300.60 M (MSL), RIVER BED 299.47 M (MSL)

LEFT BANK ELEVATION 305.37 M (MSL)

RIGHT BANK ELEVATION 305.36 M (MSL), DRAINAGE AREA 6355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	3.39	102.95	30.60	221.99	97.20	74.69	61.00	89.14	52.99	23.40	17.35	
2	0.00	3.56	118.20	26.10	226.20	196.79	65.80	56.19	86.09	51.59	23.40	16.05	
3	0.00	3.74	121.79	23.40	236.00	162.29	59.40	54.59	82.30	51.59	21.59	14.10	
4	0.00	3.82	102.95	22.49	210.80	145.49	57.80	52.99	80.40	48.80	20.70	9.25	
5	0.00	5.20	93.74	21.59	173.99	151.90	61.00	52.99	78.49	37.80	20.70	11.50	
6	0.00	14.75	87.99	33.00	188.39	189.79	61.00	52.99	76.59	30.60	18.90	9.25	
7	0.00	18.00	72.79	109.85	243.00	294.49	61.00	51.59	76.59	28.19	18.90	6.10	
8	0.00	24.30	65.80	269.10	264.75	417.00	65.80	56.19	72.79	26.10	18.90	4.60	
9	0.00	21.59	76.59	253.15	245.90	433.00	89.14	86.09	70.90	26.10	18.00	4.60	
10	1.90	16.70	87.99	121.79	167.50	321.49	128.00	130.49	69.00	25.20	16.70	5.50	
11	1.90	12.80	78.49	98.35	168.80	210.80	150.59	118.20	69.00	25.20	15.40	6.70	
12	1.81	13.45	74.69	96.05	256.04	157.09	129.25	100.64	70.90	24.30	14.75	6.40	
13	1.81	12.80	65.80	70.90	311.00	136.75	109.85	94.89	74.69	24.30	14.75	6.70	
14	1.72	11.50	61.00	54.59	253.15	118.20	104.10	91.45	78.49	24.30	14.10	6.40	
15	1.72	12.15	62.59	50.20	176.60	98.35	100.64	91.45	89.14	24.30	14.10	6.40	
16	1.99	13.45	54.59	43.19	145.49	92.59	97.20	109.85	91.45	23.40	15.40	6.40	
17	1.81	16.70	135.50	56.19	120.60	91.45	90.30	151.90	87.99	24.30	15.40	7.00	
18	1.72	19.80	52.99	117.00	106.40	91.45	102.95	223.40	80.40	25.20	14.10	6.10	
19	1.64	23.40	59.40	102.95	109.85	82.30	104.10	213.59	76.59	25.20	13.45	5.20	
20	1.64	33.00	52.99	98.35	164.89	82.30	98.35	194.00	72.79	27.00	13.45	4.60	
21	2.07	69.00	52.99	157.09	216.40	78.49	91.45	149.29	69.00	30.60	12.80	4.30	
22	2.25	70.90	54.59	241.60	198.19	76.59	82.30	126.75	64.19	30.60	12.80	4.30	
23	1.99	124.24	51.59	267.65	168.80	70.90	76.59	114.59	62.59	28.19	12.80	4.30	
24	1.81	117.00	48.80	158.39	140.49	65.80	69.00	106.40	64.19	27.00	12.80	4.90	
25	1.90	121.79	44.59	129.25	120.60	76.59	72.79	102.95	59.40	33.00	14.10	5.20	
26	1.90	147.99	39.00	136.75	107.55	91.45	84.19	99.50	57.80	34.20	11.05	5.80	
27	2.07	172.69	51.59	130.49	90.30	86.09	99.50	96.05	57.80	30.60	14.10	6.70	
28	2.34	132.99	50.20	130.49	80.40	78.49	93.74	93.74	56.19	28.19	16.70	7.90	
29	2.95	121.79	43.19	145.49	86.09	91.45	84.19	92.59	52.99	27.00		8.35	
30	3.56	134.25	37.80	153.19	82.30	87.99	72.79	90.30	51.59	24.30		10.60	
31		113.40		175.30	76.59		65.80		51.59	23.40		12.15	
TOTAL	42.50	1610.14	2103.17	3524.53	5359.04	4374.55	2703.30	3116.64	2221.06	943.54	453.24	234.70	26686.39 CMSDAY
MEAN	1.42	51.94	70.11	113.69	172.87	145.82	87.20	103.89	71.65	30.44	16.19	7.57	73.11 CMS
MAX	3.56	172.69	135.50	269.10	311.00	433.00	150.59	223.40	91.45	52.99	23.40	17.35	433.00 CMS
MIN	0.00	3.39	37.80	21.59	76.59	65.80	57.80	51.59	51.59	23.40	11.05	4.30	0.00 CMS
RUNOFF	3.672	139.116	181.714	304.519	463.021	377.961	233.565	269.277	191.899	81.522	39.160	20.278	2305.704 MCM

MOMENTARY PEAK 453.80 CMS, AT 304.58 M (MSL), AT 1.00 HOURS, ON SEP 9, 1981

RUNOFF YIELD 11.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 71.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

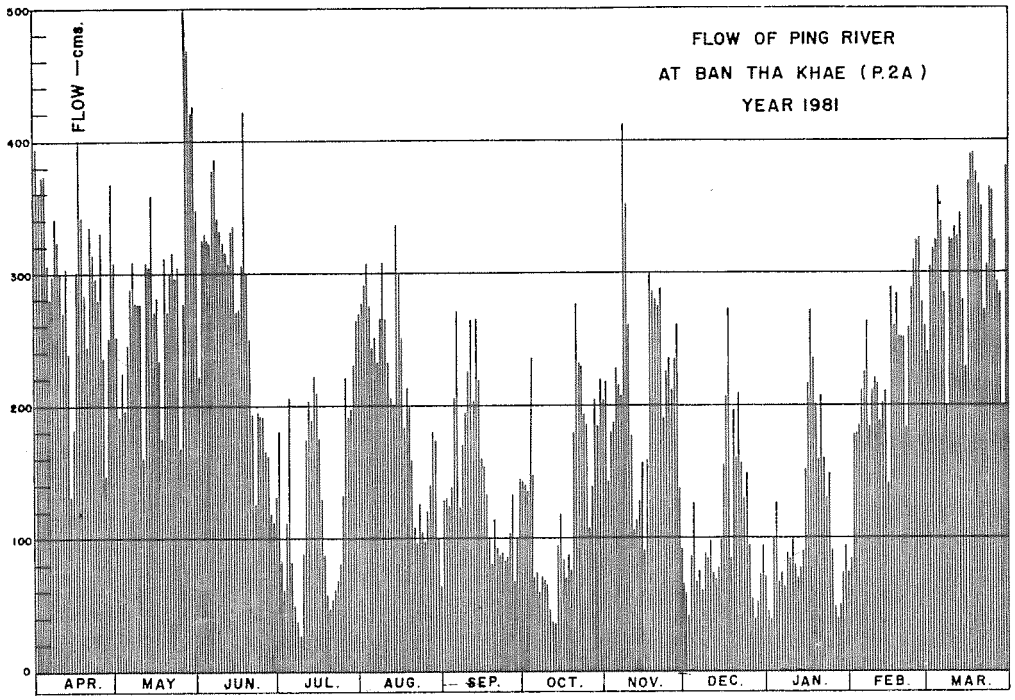
PING RIVER AT BAN THA KHAE, TAK (P.2A)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 60 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY PHUMIPHOL DAM RESERVOIR SINCE 1964. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 40,300 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	105.95	105.64	105.56	105.45	105.69	105.30	105.34	105.54	105.31	104.98	105.12	105.60	
2	105.88	105.48	105.81	105.12	105.73	105.30	105.33	105.34	105.20	104.95	105.45	105.78	
3	105.91	105.56	105.82	105.04	105.77	105.28	105.32	105.45	105.19	105.22	105.45	105.80	
4	105.91	105.49	105.81	105.29	105.72	105.37	105.59	105.47	105.17	105.29	105.47	105.81	
5	105.77	105.67	105.80	105.51	105.61	105.58	105.08	105.57	105.13	105.07	105.54	105.89	
6	105.70	105.74	105.91	105.13	105.63	105.68	105.10	105.53	104.97	105.10	105.56	105.83	
7	105.75	105.77	105.93	105.01	105.58	105.28	105.04	105.52	104.90	105.05	105.66	105.73	
8	105.84	105.69	105.84	104.94	105.69	105.45	105.09	105.98	104.99	105.16	105.46	105.50	
9	105.79	105.69	105.82	104.85	105.77	105.49	105.07	105.77	105.07	105.14	105.53	105.81	
10	105.75	105.69	105.81	105.15	105.66	105.60	105.06	105.54	105.10	105.20	105.55	105.81	
11	105.67	105.40	105.79	105.46	105.60	105.66	104.95	105.37	105.06	105.10	105.54	105.83	
12	105.76	105.77	105.77	105.51	105.51	105.50	104.93	105.22	105.26	105.08	105.47	105.82	
13	105.63	105.76	105.83	105.47	105.50	105.66	104.93	105.26	105.30	105.12	105.50	105.85	
14	105.31	105.88	105.83	105.56	105.85	105.52	105.20	105.33	105.07	105.17	105.53	105.70	
15	105.48	105.68	105.68	105.54	105.79	105.38	105.26	105.39	105.24	105.42	105.34	105.57	
16	105.84	105.70	105.67	105.48	105.63	105.38	105.13	105.15	105.21	105.61	105.72	105.90	
17	105.96	105.65	105.76	105.33	105.46	105.30	105.08	105.40	105.28	105.68	105.65	105.94	
18	105.91	105.44	106.00	105.15	105.53	105.19	105.15	105.75	105.33	105.15	105.71	105.94	
19	105.80	105.78	105.75	105.05	105.50	105.12	105.10	105.71	105.34	105.49	105.63	105.91	
20	105.61	105.68	105.65	104.99	105.39	105.25	105.51	105.70	105.21	105.40	105.63	105.90	
21	105.83	105.77	105.53	105.02	105.25	105.18	105.69	105.69	105.00	105.52	105.63	105.86	
22	105.80	105.79	105.29	105.05	105.18	105.15	105.58	105.72	105.19	105.38	105.46	105.68	
23	105.76	105.74	105.49	105.07	105.29	105.16	105.57	105.47	105.09	105.30	105.68	105.84	
24	105.70	105.76	105.48	105.12	105.20	105.13	105.48	105.58	104.97	105.36	105.77	105.89	
25	105.82	105.42	105.48	105.34	105.19	105.15	105.46	105.59	105.03	105.18	105.79	105.88	
26	105.66	105.77	105.41	105.55	105.31	105.23	105.23	105.53	104.96	105.01	105.81	105.81	
27	105.36	106.16	105.40	105.48	105.35	105.31	105.32	105.58	105.43	104.95	105.81	105.73	
28	105.70	106.10	105.25	105.50	105.45	105.07	105.51	105.65	105.03	105.01	105.71	105.71	
29	105.89	106.00	105.24	105.58	105.43	105.24	105.46	105.40	105.10	105.14		105.50	
30	105.73	106.01	105.34	105.66	105.24	105.35	105.55	105.13	105.12	105.18		105.92	
31		105.86		105.68	105.04		105.51		105.13	105.10		105.87	
MEAN	105.75	105.73	105.66	105.29	105.50	105.34	105.28	105.51	105.14	105.21	105.58	105.79	
MAX	105.96	106.16	106.00	105.68	105.85	105.68	105.69	105.98	105.43	105.68	105.81	105.94	106.16
MIN	105.31	105.40	105.24	104.85	105.04	105.07	104.93	105.13	104.90	104.95	105.12	105.50	104.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 106.40 M (MSL), AT 3.00 HOURS, ON MAY 28, 1981
ZERO GAGE AT BOTTOM ELEVATION 104.00 M (MSL), RIVER BED 103.80 M (MSL)
LEFT BANK ELEVATION 109.80 M (MSL)
RIGHT BANK ELEVATION 115.90 M (MSL), DRAINAGE AREA 38862. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	395.00	256.00	224.00	180.00	276.00	130.00	142.00	216.00	133.00	46.00	80.00	240.00	
2	360.00	192.00	325.00	80.00	292.00	130.00	139.00	142.00	100.00	40.00	180.00	312.00	
3	375.00	224.00	330.00	60.00	308.00	124.00	136.00	180.00	97.50	106.00	180.00	320.00	
4	375.00	196.00	325.00	127.00	288.00	151.00	236.00	188.00	92.50	127.00	188.00	325.00	
5	308.00	268.00	320.00	204.00	244.00	232.00	70.00	228.00	82.50	67.50	216.00	365.01	
6	280.00	296.00	375.00	82.50	252.00	272.00	75.00	212.00	44.00	75.00	224.00	335.00	
7	300.00	308.00	385.00	52.50	232.00	124.00	60.00	208.00	30.00	62.50	264.00	292.00	
8	340.00	276.00	340.00	38.00	276.00	180.00	72.50	410.00	48.00	90.00	184.00	200.00	
9	316.00	276.00	330.00	22.50	308.00	196.00	67.50	308.00	67.50	85.00	212.00	325.00	
10	300.00	276.00	325.00	87.50	264.00	240.00	65.00	216.00	75.00	100.00	220.00	325.00	
11	268.00	160.00	316.00	184.00	240.00	264.00	40.00	151.00	65.00	75.00	216.00	335.00	
12	304.00	308.00	308.00	204.00	204.00	200.00	36.00	106.00	118.00	70.00	188.00	330.00	
13	252.00	304.00	335.00	188.00	200.00	264.00	36.00	116.00	130.00	80.00	200.00	345.00	
14	133.00	360.00	336.00	224.00	345.00	208.00	100.00	139.00	67.50	92.50	212.00	280.00	
15	192.00	272.00	272.00	216.00	316.00	154.00	118.00	157.00	112.00	168.00	142.00	228.00	
16	340.00	280.00	268.00	192.00	252.00	154.00	82.50	87.50	103.00	244.00	288.00	370.00	
17	400.00	260.00	304.00	139.00	184.00	130.00	70.00	160.00	124.00	272.00	260.00	390.00	
18	375.00	176.00	420.01	87.50	212.00	97.50	87.50	300.00	139.00	87.50	284.00	390.00	
19	320.00	312.00	300.00	82.50	200.00	80.00	75.00	284.00	142.00	196.00	252.00	375.00	
20	244.00	272.00	260.00	48.00	157.00	115.00	204.00	280.00	103.00	160.00	252.00	370.00	
21	335.00	308.00	212.00	55.00	115.00	95.00	276.00	276.00	50.00	208.00	252.00	350.00	
22	320.00	316.00	127.00	62.50	95.00	87.50	232.00	288.00	97.50	154.00	184.00	272.00	
23	304.00	296.00	196.00	67.50	127.00	90.00	228.00	188.00	72.50	130.00	272.00	340.00	
24	280.00	304.00	192.00	80.00	100.00	82.50	192.00	232.00	44.00	148.00	308.00	365.01	
25	330.00	168.00	192.00	142.00	97.50	87.50	184.00	236.00	57.50	95.00	316.00	360.00	
26	264.00	308.00	164.00	220.00	133.00	109.00	109.00	212.00	42.00	52.50	325.00	325.00	
27	148.00	500.00	160.00	192.00	145.00	133.00	136.00	232.00	172.00	40.00	325.00	292.00	
28	280.00	470.00	115.00	200.00	180.00	67.50	204.00	260.00	57.50	52.50	284.00	284.00	
29	365.01	420.01	112.00	232.00	172.00	112.00	184.00	160.00	75.00	85.00		200.00	
30	292.00	425.00	142.00	264.00	112.00	145.00	220.00	82.50	80.00	95.00		380.01	
31		350.00		272.00	60.00		204.00		82.50	75.00		355.00	
TOTAL	9095.01	9137.01	8009.01	4266.00	6386.50	4454.50	4081.00	6257.00	2704.00	3379.00	6508.00	9975.03	74252.06 CMSDAY
MEAN	303.17	294.74	266.97	137.61	206.02	148.48	131.65	208.57	87.23	109.00	232.43	321.78	203.43 CMS
MAX	400.00	500.00	420.01	272.00	345.00	272.00	276.00	410.00	172.00	272.00	325.00	390.00	500.00 CMS
MIN	133.00	160.00	112.00	22.50	60.00	67.50	36.00	82.50	30.00	40.00	80.00	200.00	22.50 CMS
RUNOFF	785.809	789.438	691.978	368.582	551.794	384.869	352.598	540.605	233.626	291.946	562.291	861.842	6415.375 MCM

MOMENTARY PEAK 630.00 CMS, AT 106.40 M (MSL), AT 3.00 HOURS, ON MAY 28, 1981

RUNOFF YIELD 5.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.21 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1981. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 23,700 HECTARES AT MAE FAEK WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

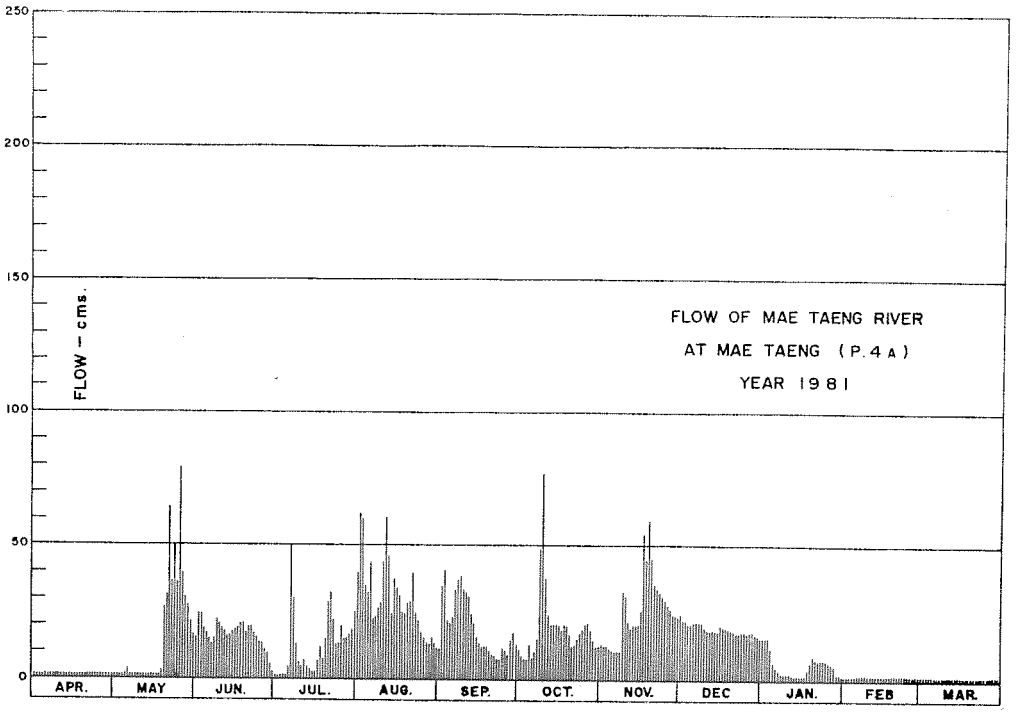
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	334.60	334.58	335.55	334.75	336.16	335.41	335.38	335.43	335.87	335.54	334.73	334.73	
2	334.59	334.58	335.88	334.72	336.68	336.13	335.25	335.43	335.79	335.54	334.78	334.73	
3	334.59	334.58	335.88	334.71	336.59	336.27	335.20	335.42	335.79	335.54	334.78	334.71	
4	334.59	334.59	335.69	334.71	336.16	335.82	335.24	335.37	335.79	335.44	334.78	334.72	
5	334.60	334.64	335.61	334.72	336.09	335.75	335.49	335.39	335.79	335.18	334.77	334.71	
6	334.60	334.93	335.51	334.72	336.35	335.83	335.23	335.33	335.78	335.00	334.77	334.70	
7	334.60	334.91	335.42	336.46	335.82	336.13	335.31	335.33	335.78	334.94	334.77	334.69	
8	334.59	334.64	335.54	335.77	335.86	336.21	335.52	335.34	335.79	334.84	334.76	334.68	
9	334.60	334.61	335.82	335.36	335.94	336.22	336.19	336.11	335.79	334.84	334.76	334.69	
10	334.62	334.61	335.74	335.14	336.02	336.13	336.89	336.08	335.69	334.84	334.76	334.69	
11	334.61	334.60	335.73	335.05	336.41	336.10	336.30	335.74	335.69	334.84	334.76	334.69	
12	334.60	334.59	335.67	335.19	337.32	336.06	335.89	335.71	335.69	334.76	334.76	334.68	
13	334.59	334.60	335.57	334.94	337.09	335.88	335.76	335.74	335.69	334.75	334.76	334.68	
14	334.60	334.62	335.60	334.83	335.86	335.74	335.76	335.74	335.69	334.75	334.76	334.69	
15	334.60	334.60	335.68	334.82	336.20	335.53	335.74	335.74	335.69	334.75	334.76	334.69	
16	334.62	334.59	335.67	334.74	336.12	335.44	335.70	335.89	335.74	334.75	334.76	334.68	
17	334.60	334.58	335.72	335.23	335.97	335.42	335.69	336.54	335.70	334.75	334.76	334.68	
18	334.59	334.58	335.76	335.43	335.87	335.43	335.72	336.36	335.73	334.85	334.75	334.68	
19	334.59	334.79	335.76	335.17	335.89	335.42	335.71	336.62	335.69	335.07	334.74	334.68	
20	334.59	335.94	335.58	335.49	336.00	335.33	335.61	336.35	335.69	335.25	334.73	334.68	
21	334.59	336.07	335.70	336.01	336.03	335.31	335.43	336.19	335.64	335.24	334.73	334.68	
22	334.59	336.71	335.73	336.11	336.24	335.26	335.43	336.12	335.59	335.23	334.73	334.69	
23	334.58	336.19	335.62	335.78	335.96	335.18	335.50	336.09	335.64	335.23	334.73	334.69	
24	334.58	336.44	335.51	335.41	335.77	335.21	335.59	336.06	335.64	335.23	334.73	334.69	
25	334.58	336.19	335.49	335.46	335.62	335.41	335.67	336.05	335.64	335.22	334.73	334.68	
26	334.58	336.92	335.46	335.72	335.52	335.37	335.75	336.01	335.64	335.18	334.73	334.69	
27	334.59	336.25	335.39	335.52	335.46	335.25	335.74	335.90	335.64	335.13	334.73	334.70	
28	334.58	336.02	335.37	335.56	335.47	335.52	335.61	335.84	335.64	334.98	334.73	334.71	
29	334.58	335.98	335.11	335.63	335.54	335.63	335.52	335.84	335.59	334.75		334.70	
30	334.58	335.74	334.78	335.68	335.46	335.51	335.43	335.84	335.59	334.74		334.70	
31		335.62		335.96	335.39		335.43		335.54	334.73		334.71	
MEAN	334.59	335.23	335.58	335.32	336.03	335.66	335.63	335.85	335.70	335.03	334.75	334.69	
MAX	334.62	336.92	335.88	336.46	337.32	336.27	336.89	336.62	335.87	335.54	334.78	334.73	337.32
MIN	334.58	334.58	334.78	334.71	335.39	335.18	335.20	335.33	335.54	334.73	334.73	334.68	334.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 337.54 M (MSL), AT 6.00 HOURS, ON AUG 12, 1981

ZERO GAGE AT BOTTOM ELEVATION 333.74 M (MSL), RIVER BED 334.78 M (MSL)

LEFT BANK ELEVATION 340.06 M (MSL)

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



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.86	0.83	15.25	1.50	35.20	11.75	11.00	12.25	24.10	15.00	1.30	1.30	
2	0.84	0.83	24.40	1.20	62.80	33.85	8.00	12.25	21.70	15.00	1.80	1.30	
3	0.84	0.83	24.40	1.10	57.40	40.50	7.00	12.00	21.70	15.00	1.80	1.10	
4	0.84	0.84	18.75	1.10	35.20	22.60	7.80	10.75	21.70	12.50	1.80	1.20	
5	0.86	0.91	16.75	1.20	32.10	20.50	13.75	11.25	21.70	6.70	1.70	1.10	
6	0.86	3.30	14.25	1.20	44.50	22.90	7.60	9.75	21.40	4.00	1.70	1.00	
7	0.86	3.10	12.00	50.00	22.60	33.85	9.25	9.75	21.40	3.40	1.70	0.99	
8	0.84	0.91	15.00	21.10	23.80	37.50	14.50	10.00	21.70	2.40	1.60	0.97	
9	0.86	0.87	22.60	10.50	26.40	38.00	36.55	32.95	21.70	2.40	1.60	0.99	
10	0.89	0.87	20.20	6.10	29.30	33.85	77.30	31.70	18.75	2.40	1.60	0.99	
11	0.87	0.86	19.90	4.75	47.50	32.50	42.00	20.20	18.75	2.40	1.60	0.99	
12	0.86	0.84	18.25	6.85	110.80	30.90	24.70	19.30	18.75	1.60	1.60	0.97	
13	0.84	0.86	15.75	3.40	91.30	24.40	20.80	20.20	18.75	1.50	1.60	0.97	
14	0.86	0.89	16.50	2.30	23.80	20.20	20.80	20.20	18.75	1.50	1.60	0.99	
15	0.86	0.86	18.50	2.20	37.00	14.75	20.20	20.20	18.75	1.50	1.60	0.99	
16	0.89	0.84	18.25	1.40	33.40	12.50	19.00	24.70	20.20	1.50	1.60	0.97	
17	0.86	0.83	19.60	7.60	27.45	12.00	18.75	54.40	19.00	1.50	1.60	0.97	
18	0.84	0.83	20.80	12.25	24.10	12.25	19.60	45.00	19.90	2.50	1.50	0.97	
19	0.84	1.90	20.80	6.55	24.70	12.00	19.30	59.20	18.75	5.05	1.40	0.97	
20	0.84	26.40	16.00	13.75	28.50	9.75	16.75	44.50	18.75	8.00	1.30	0.97	
21	0.84	31.30	19.00	28.90	29.70	9.25	12.25	36.55	17.50	7.80	1.30	0.97	
22	0.84	64.70	19.90	32.95	39.00	8.20	12.25	33.40	16.25	7.60	1.30	0.99	
23	0.83	36.55	17.00	21.40	27.10	6.70	14.00	32.10	17.50	7.60	1.30	0.99	
24	0.83	49.00	14.25	11.75	21.10	7.20	16.25	30.90	17.50	7.60	1.30	0.99	
25	0.83	36.55	13.75	13.00	17.00	11.75	18.25	30.50	17.50	7.40	1.30	0.97	
26	0.83	79.40	13.00	19.60	14.50	10.75	20.50	28.90	17.50	6.70	1.30	0.99	
27	0.84	39.50	11.25	14.50	13.00	8.00	20.20	25.00	17.50	5.95	1.30	1.00	
28	0.83	29.30	10.75	15.50	13.25	14.50	16.75	23.20	17.50	3.80	1.30	1.10	
29	0.83	27.80	5.65	17.25	15.00	17.25	14.50	23.20	16.25	1.50		1.00	
30	0.83	20.20	1.80	18.50	13.00	14.25	12.25	23.20	16.25	1.40		1.00	
31		17.00		27.10	11.25		12.25		15.00	1.30		1.10	
TOTAL	25.44	479.70	494.30	376.50	1031.75	584.40	584.10	767.50	592.45	164.50	42.40	31.60	5174.83 CMSDAY
MEAN	0.85	15.47	16.48	12.15	33.28	19.48	18.84	25.58	19.11	5.31	1.51	1.03	14.18 CMS
MAX	0.89	79.40	24.40	50.00	110.80	40.50	77.30	59.20	24.10	15.00	1.80	1.30	110.80 CMS
MIN	0.83	0.83	1.80	1.10	11.25	6.70	7.00	9.75	15.00	1.30	1.30	0.97	0.83 CMS
RUNOFF	2.198	41.446	42.708	32.530	89.143	50.492	50.466	66.312	51.188	14.213	3.663	2.748	447.106 MCM

MOMENTARY PEAK 131.00 CMS, AT 337.54 M (MSL), AT 6.00 HOURS, ON AUG 12, 1981

RUNOFF YIELD 7.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — 1952 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTA

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCH. MEASUREMENTS MADE IN 1981. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 9,600 HECTARES AT MAE KUANG WEIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

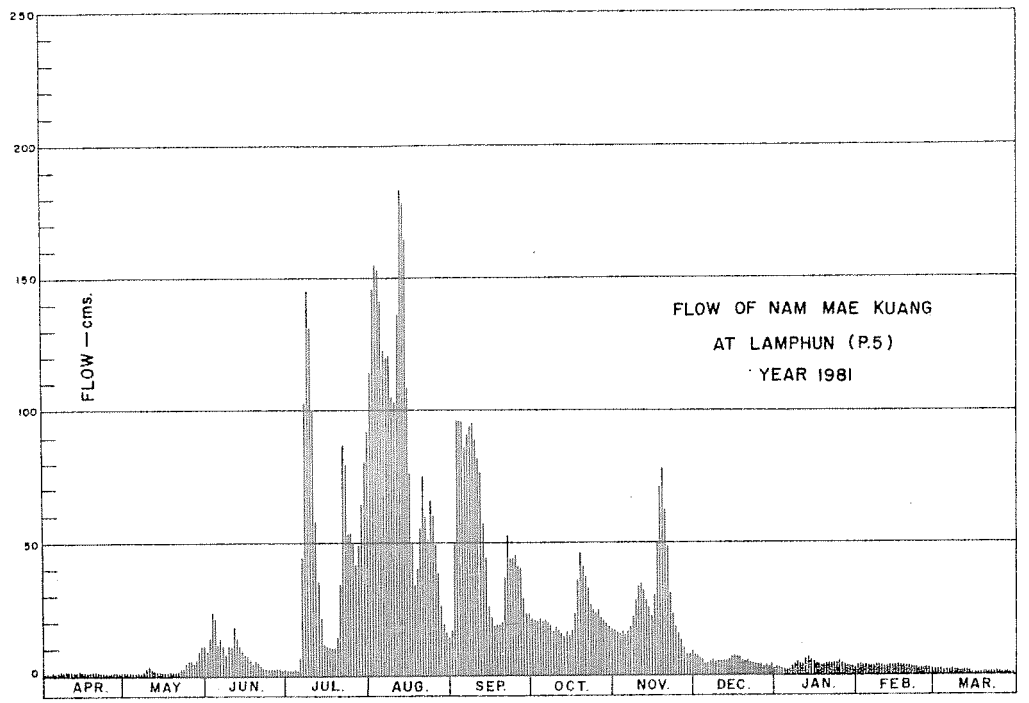
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	289.11	289.08	289.82	289.38	292.78	290.09	290.30	290.10	289.71	289.43	289.47	289.28	
2	289.10	289.08	290.16	289.35	293.30	291.30	290.26	290.12	289.67	289.40	289.47	289.25	
3	289.09	289.09	290.41	289.35	293.51	292.32	290.26	290.12	289.66	289.37	289.48	289.24	
4	289.09	289.11	290.31	289.33	293.47	292.32	290.33	290.12	289.64	289.36	289.51	289.27	
5	289.09	289.13	289.93	289.33	293.21	292.32	290.28	290.06	289.52	289.34	289.46	289.24	
6	289.09	289.12	290.03	289.78	292.90	292.10	290.32	290.14	289.52	289.28	289.46	289.22	
7	289.09	289.13	289.88	291.73	292.79	292.26	290.21	290.20	289.54	289.46	289.45	289.23	
8	289.09	289.14	289.69	292.94	292.81	292.27	290.15	290.35	289.61	289.51	289.45	289.25	
9	289.08	289.36	289.89	293.30	292.69	292.30	290.11	290.56	289.58	289.54	289.45	289.23	
10	289.08	289.40	289.85	292.99	292.34	292.19	290.18	290.75	289.54	289.52	289.45	289.24	
11	289.07	289.32	290.25	291.88	292.76	292.01	290.07	290.76	289.56	289.51	289.43	289.22	
12	289.07	289.27	290.01	291.22	293.51	291.84	290.05	290.63	289.57	289.62	289.43	289.20	
13	289.07	289.26	289.85	290.61	294.00	291.30	290.08	290.58	289.56	289.60	289.40	289.20	
14	289.07	289.25	289.79	290.21	293.90	290.90	290.13	290.47	289.63	289.54	289.42	289.18	
15	289.07	289.23	289.72	289.94	293.44	290.44	290.02	290.34	289.67	289.50	289.41	289.16	
16	289.07	289.22	289.66	289.84	292.24	290.32	290.11	290.56	289.71	289.50	289.42	289.19	
17	289.06	289.22	289.57	289.83	291.31	290.18	290.27	291.17	289.65	289.48	289.44	289.20	
18	289.06	289.20	289.50	289.85	290.76	290.24	290.88	291.82	289.63	289.46	289.44	289.16	
19	289.10	289.27	289.56	289.95	290.93	290.24	291.09	291.91	289.58	289.49	289.43	289.14	
20	289.09	289.28	289.52	290.13	291.57	290.27	291.03	291.57	289.55	289.53	289.41	289.12	
21	289.09	289.28	289.43	290.92	291.84	291.01	290.87	291.10	289.56	289.50	289.41	289.05	
22	289.09	289.31	289.38	292.13	291.49	291.28	290.69	290.68	289.53	289.50	289.36	289.03	
23	289.08	289.36	289.37	291.94	291.22	291.03	290.53	290.32	289.51	289.47	289.38	289.14	
24	289.09	289.57	289.33	291.28	291.62	291.07	290.43	290.18	289.51	289.51	289.39	289.16	
25	289.09	289.56	289.35	291.29	291.52	291.06	290.37	290.11	289.47	289.55	289.38	289.14	
26	289.09	289.54	289.36	291.25	291.11	290.95	290.44	289.96	289.47	289.53	289.35	289.13	
27	289.09	289.52	289.35	290.96	290.74	290.95	290.33	289.86	289.45	289.49	289.31	289.15	
28	289.09	289.72	289.34	291.20	290.50	290.57	290.27	289.77	289.47	289.46	289.30	289.12	
29	289.08	289.86	289.36	291.70	290.31	290.37	290.22	289.77	289.46	289.42		289.15	
30	289.08	289.91	289.38	291.93	290.10	290.38	290.22	289.81	289.47	289.40		289.14	
31		289.91		292.31	290.03		290.14		289.46	289.39		289.15	
MEAN	289.08	289.34	289.70	290.90	292.09	291.20	290.34	290.46	289.56	289.47	289.42	289.18	
MAX	289.11	289.91	290.41	293.30	294.00	292.32	291.09	291.91	289.71	289.62	289.51	289.28	294.00
MIN	289.06	289.08	289.33	289.33	290.03	290.09	290.02	289.77	289.45	289.28	289.30	289.03	289.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 294.02 M (MSL), AT 18.00 HOURS, ON AUG 13, 1981

ZERO GAGE AT BOTTOM ELEVATION 288.50 M (MSL), RIVER BED 288.52 M (MSL)

LEFT BANK ELEVATION 295.78 M (MSL)

RIGHT BANK ELEVATION 295.79 M (MSL), DRAINAGE AREA 1569 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.40	9.90	2.80	119.00	15.75	21.00	16.00	7.70	3.45	4.05	1.80	
2	0.50	0.40	17.50	2.50	145.00	54.00	20.00	16.50	7.05	3.00	4.05	1.50	
3	0.45	0.45	24.30	2.50	155.50	96.40	20.00	16.50	6.90	2.70	4.20	1.40	
4	0.45	0.55	21.30	2.30	153.50	96.40	21.90	16.50	6.60	2.60	4.65	1.70	
5	0.45	0.65	12.10	2.30	140.50	96.40	20.50	15.00	4.80	2.40	3.90	1.40	
6	0.45	0.60	14.25	9.10	125.00	86.50	21.60	17.00	4.80	1.80	3.90	1.20	
7	0.45	0.65	11.10	71.20	119.50	93.70	18.75	18.50	5.10	3.90	3.75	1.30	
8	0.45	0.70	7.35	127.00	120.50	94.15	17.25	22.50	6.15	4.65	3.75	1.50	
9	0.40	2.60	11.30	145.00	114.50	95.50	16.25	28.80	5.70	5.10	3.75	1.30	
10	0.40	3.00	10.50	129.50	97.30	90.55	18.00	34.50	5.10	4.80	3.75	1.40	
11	0.35	2.20	19.75	77.20	118.00	82.45	15.25	34.80	5.40	4.65	3.45	1.20	
12	0.35	1.70	13.75	50.80	155.50	75.60	14.75	30.90	5.55	6.30	3.45	1.00	
13	0.35	1.60	10.50	30.30	182.00	54.00	15.50	29.40	5.40	6.00	3.00	1.00	
14	0.35	1.50	9.30	18.75	176.50	39.00	16.75	26.10	6.45	5.10	3.30	0.90	
15	0.35	1.30	7.90	12.30	152.00	25.20	14.00	22.20	7.05	4.50	3.15	0.80	
16	0.35	1.20	6.90	10.30	92.80	21.60	16.25	28.80	7.70	4.50	3.30	0.95	
17	0.30	1.20	5.55	10.10	54.40	18.00	20.25	48.80	6.75	4.20	3.60	1.00	
18	0.30	1.00	4.50	10.50	34.80	19.50	38.40	74.80	6.45	3.90	3.60	0.80	
19	0.50	1.70	5.40	12.50	40.05	19.50	45.65	78.40	5.70	4.35	3.45	0.70	
20	0.45	1.80	4.80	16.75	64.80	20.25	43.55	64.80	5.25	4.95	3.15	0.60	
21	0.45	1.80	3.45	39.70	75.60	42.85	38.10	46.00	5.40	4.50	3.15	0.25	
22	0.45	2.10	2.80	87.85	61.60	53.20	32.70	32.40	4.95	4.50	2.60	0.15	
23	0.40	2.60	2.70	79.60	50.80	43.55	27.90	21.60	4.65	4.05	2.80	0.70	
24	0.45	5.55	2.30	53.20	66.80	44.95	24.90	18.00	4.65	4.65	2.90	0.80	
25	0.45	5.40	2.50	53.60	62.80	44.60	23.10	16.25	4.05	5.25	2.80	0.70	
26	0.45	5.10	2.60	52.00	46.40	40.75	25.20	12.70	4.05	4.95	2.50	0.65	
27	0.45	4.80	2.50	41.10	34.20	40.75	21.90	10.70	3.75	4.35	2.10	0.75	
28	0.45	7.90	2.40	50.00	27.00	29.10	20.25	8.90	4.05	3.90	2.00	0.60	
29	0.40	10.70	2.60	70.00	21.30	23.10	19.00	8.90	3.90	3.30		0.75	
30	0.40	11.70	2.80	79.20	16.00	23.40	19.00	9.70	4.05	3.00		0.70	
31		11.70		95.95	14.25		17.00		3.90	2.90		0.75	
TOTAL	12.55	94.55	254.60	1445.90	2837.90	1580.70	704.65	825.95	169.00	128.20	94.05	30.25	8178.29 CMSDAY
MEAN	0.42	3.05	8.49	46.64	91.55	52.69	22.73	27.53	5.45	4.14	3.36	0.98	22.41 CMS
MAX	0.55	11.70	24.30	145.00	182.00	96.40	45.65	78.40	7.70	6.30	4.65	1.80	182.00 CMS
MIN	0.30	0.40	2.30	2.30	14.25	15.75	14.00	8.90	3.75	1.80	2.00	0.15	0.15 CMS
RUNOFF	1.084	8.169	21.997	124.926	245.194	136.572	60.882	71.362	14.602	11.076	8.126	2.614	706.604 MCM

MOMENTARY PEAK 183.10 CMS, AT 294.02 M (MSL), AT 18.00 HOURS, ON AUG 13, 1981

RUNOFF YIELD 14.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 116.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 KAMPHAENG PHET BRIDGE, BAN NAKHON CHUM, AMPHOE MUANG, KAMPHAENG PHET.

DRAINAGE AREA — 42,700 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +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 WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

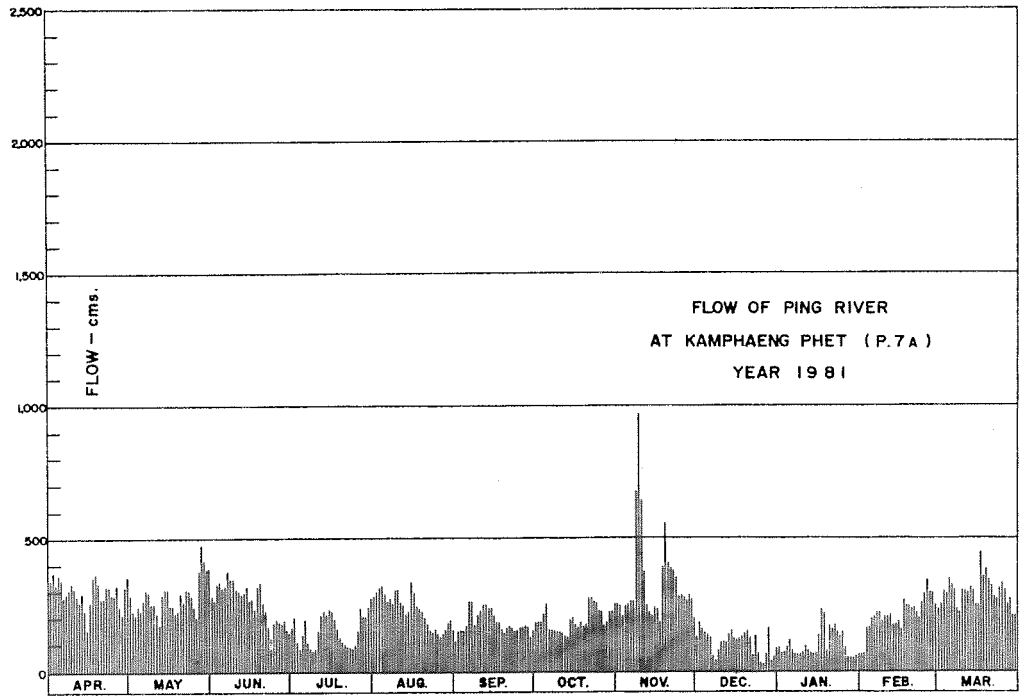
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +76.194 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW COMPLETELY REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION OF ABOUT 40,300 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	74.30	74.12	74.11	73.74	74.11	73.92	73.78	74.01	73.62	73.40	73.33	73.97	
2	74.39	73.95	74.08	73.85	74.17	73.67	73.80	73.99	73.79	73.34	73.33	74.07	
3	74.22	73.88	74.24	73.49	74.21	73.69	73.79	73.84	73.68	73.31	73.73	74.18	
4	74.35	74.00	74.27	73.38	74.23	73.70	73.91	73.99	73.66	73.44	73.76	74.16	
5	74.30	73.94	74.20	73.63	74.12	73.79	74.02	74.03	73.63	73.52	73.82	74.32	
6	74.11	74.07	74.22	73.82	74.04	74.07	73.68	74.08	73.58	73.36	73.86	74.28	
7	74.14	74.19	74.39	73.50	74.10	74.05	73.68	74.04	73.25	73.31	73.92	74.18	
8	74.18	74.16	74.31	73.40	74.02	73.76	73.65	75.15	73.19	73.30	73.95	73.97	
9	74.26	73.99	74.30	73.38	74.19	73.89	73.64	75.86	73.35	73.32	73.81	73.95	
10	74.21	74.04	74.19	73.39	74.18	73.94	73.64	74.89	73.48	73.36	73.88	74.18	
11	74.14	73.91	74.19	73.62	74.04	74.04	73.64	74.38	73.51	73.43	73.87	74.18	
12	74.08	73.77	74.13	73.88	73.99	74.05	73.56	74.14	73.47	73.35	73.89	74.17	
13	74.15	74.12	74.15	73.92	73.87	73.98	73.56	73.91	73.62	73.30	73.76	74.20	
14	73.96	74.19	74.22	73.86	73.95	74.04	73.83	73.82	73.67	73.30	73.80	74.16	
15	73.67	74.20	74.08	73.94	74.28	73.93	73.85	73.97	73.47	73.34	73.78	74.00	
16	74.00	73.99	74.09	73.91	74.16	73.78	73.77	73.97	73.56	73.61	73.69	74.03	
17	74.31	73.99	73.96	73.85	74.01	73.78	73.72	73.80	73.56	73.96	74.09	74.58	
18	74.37	73.90	74.22	73.70	74.04	73.72	73.79	74.34	73.59	73.89	73.99	74.32	
19	74.27	73.92	74.26	73.56	73.93	73.64	73.73	74.89	73.63	73.35	74.00	74.42	
20	74.10	74.18	74.07	73.48	73.90	73.62	73.70	74.53	73.65	73.77	73.98	74.29	
21	74.09	74.03	73.94	73.45	73.80	73.77	74.11	74.40	73.51	73.70	73.97	74.24	
22	74.21	74.19	73.81	73.44	73.70	73.72	74.11	74.39	73.26	73.76	73.92	74.13	
23	74.24	74.18	73.56	73.44	73.65	73.66	74.05	74.27	73.57	73.64	73.84	74.08	
24	74.12	74.13	73.78	73.41	73.68	73.70	74.03	74.09	73.30	73.59	74.02	74.18	
25	74.11	73.98	73.83	73.43	73.62	73.72	73.94	74.14	73.12	73.67	74.19	74.28	
26	74.24	73.85	73.81	73.70	73.58	73.71	73.92	74.10	73.07	73.45	74.29	74.20	
27	74.01	74.31	73.77	73.97	73.64	73.73	73.72	74.06	73.22	73.23	74.16	74.03	
28	73.87	74.66	73.80	73.86	73.69	73.77	73.79	74.14	73.71	73.21	74.16	74.11	
29	74.19	74.51	73.67	73.87	73.81	73.58	73.94	74.06	73.18	73.23		73.88	
30	74.34	74.40	73.62	73.99	73.82	73.66	73.92	73.85	73.28	73.28		73.91	
31		74.44		74.09	73.66		74.03		73.42	73.34		74.23	
MEAN	74.16	74.10	74.04	73.68	73.94	73.79	73.82	74.24	73.47	73.45	73.88	74.16	
MAX	74.39	74.66	74.39	74.09	74.28	74.07	74.11	75.86	73.79	73.96	74.29	74.58	75.86
MIN	73.67	73.77	73.56	73.38	73.58	73.52	73.56	73.80	73.07	73.21	73.33	73.88	73.07

ANNUAL MAX MOMENTARY GAGE HEIGHT 76.74 M (MSL), AT 24.00 HOURS, ON NOV 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 72.00 M (MSL), RIVER BED 71.92 M (MSL)
LEFT BANK ELEVATION 76.40 M (MSL)
RIGHT BANK ELEVATION 76.50 M (MSL), DRAINAGE AREA 42700 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	344.00	282.80	279.40	169.20	279.40	112.80	180.40	247.20	137.20	84.00	67.20	235.00	
2	376.40	229.00	269.60	200.00	299.80	150.20	186.00	241.00	183.20	69.60	67.20	266.40	
3	316.80	208.40	323.60	105.60	313.40	155.40	183.20	197.20	152.80	62.40	166.40	303.20	
4	362.00	244.00	333.80	79.20	320.20	158.00	217.00	241.00	147.60	93.60	174.80	296.40	
5	344.00	226.00	310.00	139.80	282.80	183.20	250.40	253.60	139.80	112.80	191.60	351.20	
6	279.40	266.40	316.80	191.60	256.80	266.40	152.80	269.60	127.20	74.40	202.80	337.20	
7	289.60	306.60	376.40	108.00	276.00	260.00	152.80	256.80	50.00	62.40	220.00	303.20	
8	303.20	296.40	347.60	84.00	250.40	174.80	145.00	660.00	38.00	60.00	229.00	235.00	
9	330.40	241.00	344.00	79.20	306.60	211.20	142.40	962.40	72.00	64.80	188.80	229.00	
10	313.40	256.80	306.60	81.60	303.20	226.00	142.40	556.40	103.20	74.40	208.40	303.20	
11	289.60	217.00	306.60	137.20	256.80	256.80	142.40	372.80	110.40	91.20	205.60	303.20	
12	269.60	177.60	286.20	208.40	241.00	260.00	122.40	289.60	100.80	72.00	211.20	299.80	
13	293.00	282.80	293.00	220.00	205.60	238.00	122.40	217.00	137.20	60.00	174.80	310.00	
14	232.00	306.60	316.80	202.80	229.00	256.80	194.40	208.40	150.20	60.00	186.00	296.40	
15	150.20	310.00	269.60	226.00	337.20	223.00	200.00	235.00	100.80	69.60	180.40	244.00	
16	244.00	241.00	272.80	217.00	296.40	180.40	177.60	235.00	122.40	134.60	155.40	253.60	
17	347.60	241.00	232.00	200.00	247.20	180.40	163.60	186.00	122.40	232.00	272.80	444.80	
18	369.20	214.00	316.80	158.00	538.40	163.60	183.20	358.40	129.60	211.20	241.00	351.20	
19	333.80	220.00	330.40	122.40	223.00	142.40	166.40	556.40	139.80	72.00	244.00	387.20	
20	276.00	303.20	266.40	103.20	214.00	137.20	158.00	426.80	145.00	177.60	238.00	340.60	
21	272.80	253.60	226.00	96.00	186.00	177.60	279.40	380.00	110.40	158.00	235.00	323.60	
22	313.40	306.60	188.80	93.60	158.00	163.60	279.40	376.40	52.00	174.80	220.00	286.20	
23	323.60	303.20	122.40	93.60	145.00	147.60	260.00	333.80	124.80	142.40	197.20	269.60	
24	282.80	286.20	180.40	86.40	152.80	158.00	253.60	272.80	60.00	129.60	250.40	303.20	
25	279.40	238.00	194.40	91.20	137.20	163.60	226.00	289.60	24.00	150.20	293.00	337.20	
26	323.60	200.00	188.80	158.00	127.20	160.80	220.00	276.00	14.00	96.00	340.60	310.00	
27	247.20	347.60	177.60	235.00	142.40	166.40	163.60	263.20	44.00	46.00	296.40	253.60	
28	203.60	473.60	186.00	202.80	155.40	177.60	183.20	289.60	160.80	42.00	296.40	279.40	
29	306.60	419.60	150.20	205.60	188.80	127.20	226.00	263.20	36.00	46.00		208.40	
30	358.40	380.00	137.20	241.00	191.60	147.60	220.00	200.00	56.00	56.00		217.00	
31		394.40		272.80	147.60		253.60		88.80	69.60		320.20	
TOTAL	8977.59	8673.39	7850.19	4809.20	7409.19	5526.59	5947.60	9915.19	3180.40	3049.20	5954.40	9198.99	80491.90 CMSDAY
MEAN	299.25	279.79	261.67	155.14	239.01	184.22	191.86	330.51	102.59	98.36	212.66	296.74	220.53 CMS
MAX	376.40	473.60	376.40	272.80	538.40	266.40	279.40	962.40	183.20	232.00	340.60	444.80	962.40 CMS
MIN	150.20	177.60	122.40	79.20	127.20	112.80	122.40	186.00	14.00	42.00	67.20	208.40	14.00 CMS
RUNOFF	775.664	749.381	678.256	415.515	640.154	477.498	513.872	856.673	274.786	263.451	514.460	794.792	6954.499 MCM

MOMENTARY PEAK 1397.00 CMS, AT 76.74 M (MSL), AT 24.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 5.16 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 32.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

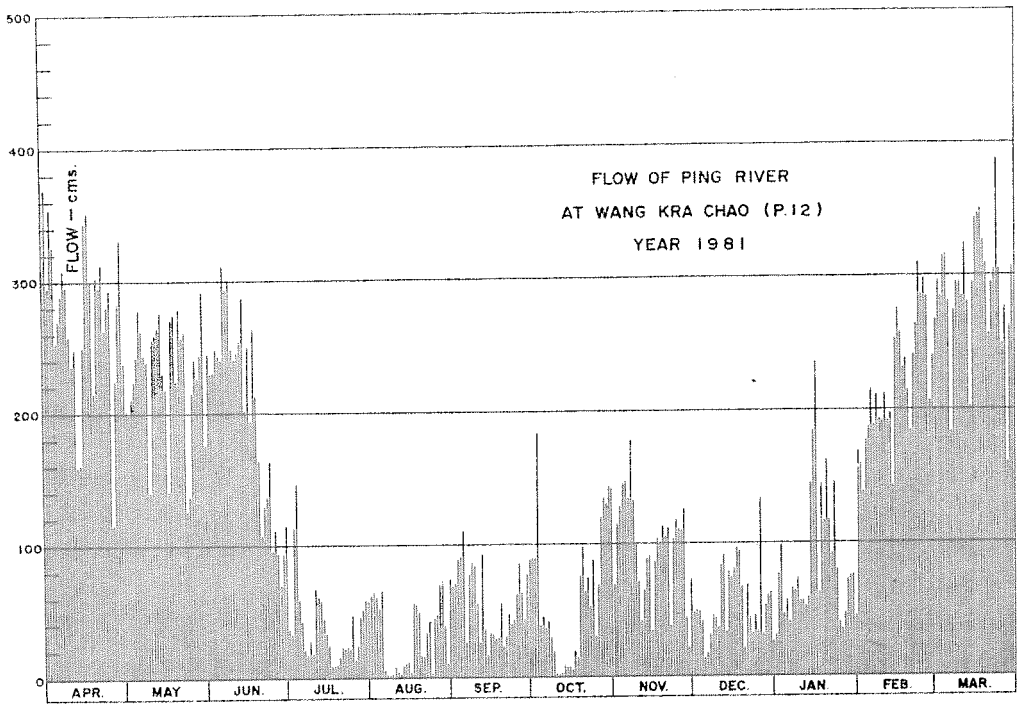
PING RIVER AT WANG KRA CHAO, TAK (P.12)

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 AT	+133.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 25 METERS NORTH OF THE GAGE SITE.
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY PHUMIPHOL DAM RESERVIOR AND DIVERTED FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	135.63	134.76	135.00	133.38	133.67	133.74	133.95	133.76	133.53	133.28	134.55	135.12	
2	135.26	134.74	134.92	133.33	133.70	133.77	133.94	134.16	133.55	133.81	134.52	135.27	
3	135.55	134.81	134.93	134.14	133.65	133.95	134.64	134.27	133.53	134.02	134.33	135.21	
4	135.37	134.87	135.02	134.40	133.58	133.96	133.40	134.38	133.43	133.50	134.60	135.36	
5	135.05	134.99	134.98	133.60	133.71	134.13	133.51	134.40	133.01	133.62	134.62	135.37	
6	135.14	135.18	134.97	133.41	132.81	133.22	133.36	134.30	133.07	133.44	134.84	135.20	
7	135.24	135.10	135.34	133.17	132.57	133.83	133.46	134.60	133.32	133.71	134.68	134.64	
8	135.32	135.00	135.25	133.08	132.57	133.91	133.30	134.15	133.51	133.70	134.81	135.14	
9	135.22	134.97	135.29	133.26	132.58	133.89	133.13	134.03	133.47	133.79	134.72	135.26	
10	135.02	134.36	135.02	133.11	132.86	133.66	132.69	133.73	133.38	133.62	134.70	135.27	
11	134.95	135.07	134.98	133.72	132.75	133.23	132.55	133.45	133.89	133.63	134.82	135.21	
12	135.02	135.09	135.01	133.66	132.57	133.97	132.68	133.70	133.96	133.56	134.69	135.41	
13	134.48	135.13	135.05	133.64	132.90	133.36	132.91	133.93	133.32	133.65	134.73	135.19	
14	134.50	135.07	135.22	133.52	132.93	133.07	132.85	133.97	133.85	134.12	134.37	134.76	
15	134.93	134.92	134.76	133.45	132.95	133.34	132.88	133.31	133.81	134.60	134.99	135.26	
16	135.51	134.85	135.03	133.21	132.51	133.31	132.75	133.91	133.86	134.95	135.17	135.50	
17	135.54	134.36	134.71	132.88	133.62	133.26	133.11	134.08	134.01	133.68	135.08	135.52	
18	135.28	135.14	135.10	132.89	133.59	133.28	132.82	134.04	133.99	134.38	134.93	135.54	
19	134.84	135.16	134.76	132.88	133.54	133.60	133.84	134.14	133.73	134.17	134.97	135.42	
20	135.30	134.89	134.46	133.04	133.05	133.19	134.02	134.08	133.16	134.51	134.84	135.34	
21	135.26	135.18	134.10	133.19	133.05	133.28	133.70	134.13	133.75	134.11	134.65	135.07	
22	135.35	135.07	134.27	133.17	133.35	133.52	133.80	133.40	133.45	133.98	134.97	135.26	
23	135.10	135.09	134.33	133.19	133.45	133.42	133.58	134.04	133.33	134.39	135.11	135.31	
24	135.19	134.25	134.50	133.16	132.73	133.46	133.93	134.18	133.49	133.87	135.34	135.71	
25	135.25	134.36	134.01	133.51	133.49	133.68	133.31	134.12	133.33	133.43	135.22	135.31	
26	134.46	134.84	134.13	133.02	133.53	133.90	133.74	134.12	134.30	133.36	135.28	135.03	
27	134.89	134.98	133.99	133.21	133.75	133.09	134.19	134.25	133.29	133.52	135.21	135.17	
28	135.20	134.90	133.76	133.50	133.79	133.45	134.31	133.86	133.56	133.78	134.79	134.49	
29	135.44	135.00	133.99	133.62	133.42	133.83	134.28	133.15	133.68	133.82		135.08	
30	134.94	135.24	134.16	133.65	132.94	133.93	134.38	133.76	133.69	133.83		135.32	
31		134.60		133.63	133.80		134.36		133.23	133.50		135.21	
MEAN	135.14	134.90	134.70	133.37	133.21	133.57	133.53	133.98	133.56	133.85	134.84	135.22	
MAX	135.63	135.24	135.34	134.40	133.80	134.13	134.64	134.60	134.30	134.95	135.34	135.71	135.71
MIN	134.46	134.25	133.76	132.88	132.51	133.07	132.55	133.15	133.01	133.28	134.33	134.49	132.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 136.04 M (MSL), AT 17.00 HOURS, ON APR 1, 1981
ZERO GAGE AT BOTTOM ELEVATION 133.00 M (MSL), RIVER BED 131.51 M (MSL)
LEFT BANK ELEVATION 149.09 M (MSL)
RIGHT BANK ELEVATION 150.72 M (MSL), DRAINAGE AREA 26396 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	368.60	202.20	244.00	35.60	60.30	67.00	89.50	69.00	47.70	28.60	168.50	266.00	
2	294.00	198.80	229.60	32.10	63.00	70.00	88.40	114.80	49.50	74.10	164.00	296.00	
3	352.00	210.70	231.40	112.20	58.50	89.50	182.40	129.10	47.70	97.40	136.90	284.00	
4	316.00	220.90	247.60	146.00	52.20	90.60	37.00	143.40	39.40	45.00	176.00	314.00	
5	253.00	242.20	240.40	54.00	64.00	110.90	45.90	146.00	12.50	55.80	179.20	316.00	
6	270.00	278.00	238.60	37.80	4.40	24.40	34.20	133.00	15.50	40.20	215.80	282.00	
7	290.00	262.00	310.00	21.20	0.00	76.30	41.80	176.00	31.40	64.00	188.80	182.40	
8	306.00	244.00	292.00	16.00	0.00	85.10	30.00	113.50	45.90	63.00	210.70	270.00	
9	286.00	238.60	300.00	27.20	0.00	82.90	18.80	98.60	42.60	72.00	195.40	294.00	
10	247.60	140.80	247.60	17.60	6.40	59.40	1.80	66.00	35.60	55.80	192.00	296.00	
11	235.00	256.60	240.40	65.00	3.00	25.10	0.00	41.00	82.90	56.70	212.40	284.00	
12	247.60	260.20	245.80	59.40	0.00	91.70	1.60	63.00	90.60	50.40	190.40	324.00	
13	158.00	268.00	253.00	57.60	8.00	34.20	8.40	87.30	31.40	58.50	197.10	280.00	
14	161.00	256.60	266.00	46.80	9.20	15.50	6.00	91.70	78.50	109.60	142.10	202.20	
15	231.40	229.60	202.20	41.00	10.00	32.80	7.20	30.70	74.10	176.00	242.20	294.00	
16	344.00	217.50	249.40	23.70	0.00	30.70	3.00	85.10	79.60	235.00	276.00	342.00	
17	350.00	140.80	193.70	7.20	55.80	27.20	17.60	104.60	96.20	61.20	258.40	346.00	
18	298.00	270.00	262.00	7.20	53.10	28.60	4.80	99.80	93.90	143.40	231.40	350.00	
19	215.80	274.00	202.20	7.20	48.60	54.00	77.40	112.20	66.00	116.10	238.60	326.00	
20	302.00	224.30	155.00	14.00	14.50	22.40	97.40	104.60	20.60	162.50	215.80	310.00	
21	294.00	278.00	107.00	22.40	14.50	28.60	63.00	110.90	68.00	108.30	184.00	256.60	
22	312.00	256.60	129.10	21.20	33.50	46.80	73.00	37.00	41.00	92.80	238.60	294.00	
23	262.00	260.20	136.90	22.40	41.00	38.60	52.20	99.80	32.10	144.70	264.00	304.00	
24	280.00	126.50	161.00	20.60	2.60	41.80	87.30	117.40	44.20	80.70	310.00	386.20	
25	292.00	140.80	96.20	45.90	44.20	61.20	30.70	109.60	32.10	39.40	286.00	304.00	
26	155.00	215.80	110.90	13.00	47.70	84.00	67.00	109.60	133.00	34.20	298.00	249.40	
27	224.30	240.40	93.90	23.70	68.00	16.50	118.70	126.50	29.30	46.80	284.00	276.00	
28	282.00	226.00	69.00	45.00	72.00	41.00	134.30	79.60	50.40	71.00	207.30	159.50	
29	330.00	244.00	93.90	55.80	38.60	76.30	130.40	20.00	61.20	75.20		258.40	
30	233.20	290.00	114.80	58.50	9.60	87.30	143.40	69.00	62.10	76.30		306.00	
31		176.00		56.70	73.00		140.80		25.10	45.00		284.00	
TOTAL	8190.50	7090.10	5983.59	1214.00	955.70	1640.40	1834.00	2888.80	1660.10	2579.70	6103.60	8936.70	49077.15 CMSDAY
MEAN	273.02	228.71	199.45	39.16	30.83	54.68	59.16	96.29	53.55	83.22	217.99	288.28	134.46 CMS
MAX	368.60	290.00	310.00	146.00	73.00	110.90	182.40	176.00	133.00	235.00	310.00	386.20	386.20 CMS
MIN	155.00	126.50	69.00	7.20	0.00	15.50	0.00	20.00	12.50	28.60	136.90	159.50	0.00 CMS
RUNOFF	707.659	612.584	516.983	104.889	82.572	141.730	158.457	249.592	143.432	222.886	527.351	772.131	4240.265 MCM

MOMENTARY PEAK 458.80 CMS, AT 136.04 M (MSL), AT 17.00 HOURS, ON APR 1, 1981

RUNOFF YIELD 5.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

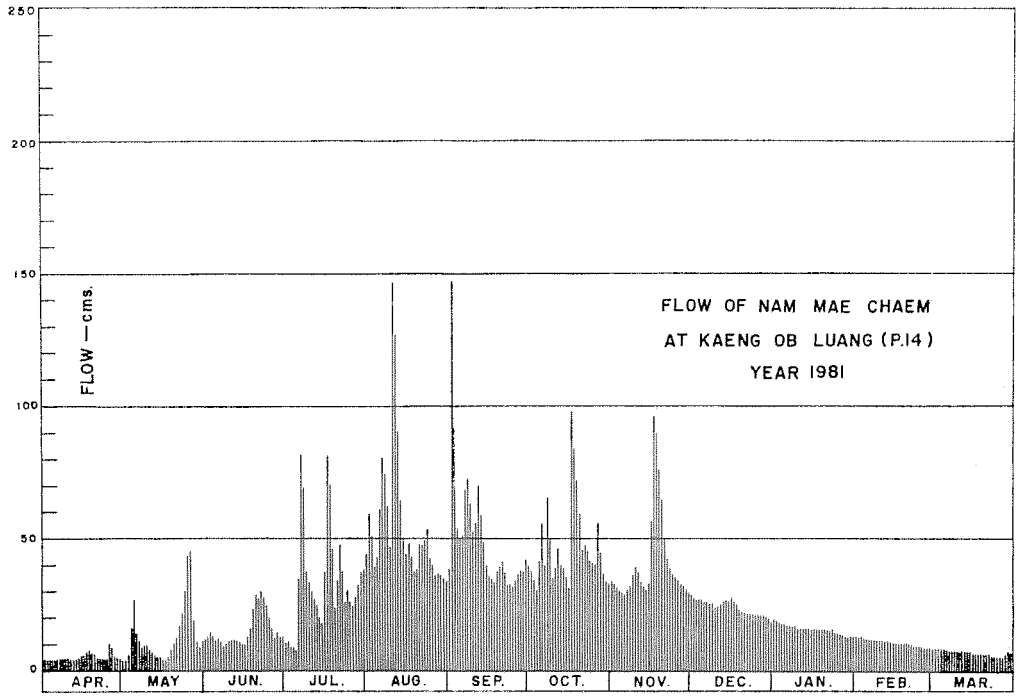
NAM MAE CHAEM AT KAENG OB LUANG, CHIANG MAI (P.14)

LOCATION	LAT. 18°-13'-49" N., LONG. 98°-33'-35" E., ON RIGHT BANK NEAR THE BRIDGE OF HOT-MAE SARIANG HIGHWAY AT KILOMETER MARKER 7+500, AMPHOE HOT, CHIANG MAI.
DRAINAGE AREA	3,853 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+275.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D. NO. 13
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	276.70	276.70	276.94	276.92	277.47	277.39	277.38	277.32	277.23	277.07	276.95	276.83	
2	276.70	276.69	276.99	276.90	277.62	278.39	277.38	277.28	277.21	277.07	276.95	276.83	
3	276.71	276.74	277.00	276.87	277.50	277.71	277.31	277.26	277.20	277.05	276.95	276.83	
4	276.70	277.06	276.94	276.85	277.39	277.56	277.26	277.25	277.20	277.05	276.94	276.83	
5	276.70	277.22	276.90	276.84	277.45	277.51	277.43	277.25	277.20	277.04	276.94	276.83	
6	276.70	276.99	276.94	277.24	277.75	277.54	277.57	277.24	277.19	277.04	276.93	276.83	
7	276.70	276.90	276.90	277.84	277.82	277.72	277.39	277.26	277.19	277.04	276.92	276.82	
8	276.70	276.85	276.87	277.72	277.76	277.75	277.67	277.29	277.18	277.04	276.92	276.81	
9	276.70	276.89	276.91	277.37	277.59	277.64	277.47	277.36	277.17	277.04	276.91	276.81	
10	276.70	276.88	276.91	277.29	277.47	277.53	277.32	277.39	277.16	277.03	276.91	276.81	
11	276.70	276.82	276.94	277.26	278.39	277.58	277.38	277.36	277.17	277.03	276.91	276.80	
12	276.69	276.81	276.93	277.23	278.19	277.72	277.46	277.31	277.19	277.02	276.91	276.80	
13	276.69	276.77	276.91	277.17	277.79	277.62	277.39	277.28	277.20	277.02	276.90	276.80	
14	276.75	276.75	276.91	276.85	277.61	277.50	277.38	277.27	277.20	277.02	276.90	276.80	
15	276.76	276.74	276.89	276.84	277.52	277.39	277.33	277.31	277.19	277.01	276.89	276.80	
16	276.78	276.73	276.91	277.24	277.45	277.33	277.27	277.61	277.22	277.01	276.89	276.79	
17	276.81	276.73	276.97	277.84	277.48	277.30	277.99	277.97	277.19	277.00	276.88	276.79	
18	276.80	276.74	277.04	277.72	277.43	277.31	277.84	277.92	277.15	277.01	276.88	276.79	
19	276.79	276.80	277.18	277.37	277.37	277.36	277.74	277.78	277.13	277.01	276.88	276.79	
20	276.76	276.91	277.24	277.15	277.38	277.39	277.57	277.65	277.12	277.01	276.88	276.78	
21	276.75	276.93	277.21	277.43	277.48	277.40	277.46	277.50	277.12	277.02	276.88	276.78	
22	276.73	277.06	277.26	277.47	277.48	277.36	277.48	277.42	277.11	277.01	276.87	276.77	
23	276.72	277.13	277.24	277.31	277.50	277.28	277.44	277.38	277.11	277.00	276.86	276.76	
24	276.71	277.27	277.16	277.19	277.55	277.29	277.40	277.34	277.10	276.99	276.86	276.76	
25	276.72	277.44	277.11	277.27	277.43	277.28	277.41	277.32	277.10	276.98	276.86	276.76	
26	276.92	277.45	277.01	277.19	277.38	277.34	277.40	277.30	277.10	276.98	276.85	276.76	
27	276.86	277.15	276.97	277.18	277.34	277.36	277.57	277.28	277.10	276.96	276.84	276.76	
28	276.77	276.97	277.00	277.27	277.35	277.37	277.40	277.27	277.10	276.96	276.84	276.79	
29	276.74	276.89	276.97	277.30	277.33	277.37	277.35	277.26	277.09	276.96		276.80	
30	276.72	276.86	276.96	277.37	277.31	277.42	277.31	277.25	277.08	276.96		276.80	
31		276.94		277.39	277.29		277.29		277.08	276.96		276.79	
MEAN	276.74	276.93	277.00	277.25	277.54	277.49	277.45	277.39	277.15	277.01	276.90	276.80	
MAX	276.92	277.45	277.26	277.84	278.39	278.39	277.99	277.97	277.23	277.07	276.95	276.83	278.39
MIN	276.69	276.69	276.87	276.84	277.29	277.28	277.26	277.24	277.08	276.96	276.84	276.76	276.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 279.02 M (MSL), AT 12.00 HOURS, ON AUG 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 275.80 M (MSL), RIVER BED 275.98 M (MSL)
LEFT BANK ELEVATION 285.33 M (MSL)
RIGHT BANK ELEVATION 282.98 M (MSL), DRAINAGE AREA 3853 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.00	4.00	12.60	11.80	47.30	40.30	39.60	35.40	29.10	19.20	13.00	8.20	
2	4.00	3.80	14.60	11.00	60.80	146.80	39.60	32.60	27.70	19.20	13.00	8.20	
3	4.30	5.20	15.00	9.80	50.00	69.00	34.70	31.20	27.00	18.00	13.00	8.20	
4	4.00	18.60	12.60	9.00	40.30	55.40	31.20	30.50	27.00	18.00	12.60	8.20	
5	4.00	28.40	11.00	8.60	45.50	50.90	43.70	30.50	27.00	17.40	12.60	8.20	
6	4.00	14.60	12.60	29.80	73.00	53.60	56.30	29.80	26.40	17.40	12.20	8.20	
7	4.00	11.00	11.00	82.00	80.00	70.00	40.30	31.20	26.40	17.40	11.80	7.80	
8	4.00	9.00	9.80	70.00	74.00	73.00	65.30	33.30	25.80	17.40	11.80	7.40	
9	4.00	10.60	11.40	38.90	58.10	62.60	47.30	38.20	25.20	17.40	11.40	7.40	
10	4.00	10.20	11.40	33.30	47.30	52.70	35.40	40.30	24.60	16.80	11.40	7.40	
11	4.00	7.80	12.60	31.20	146.80	57.20	39.60	38.20	25.20	16.80	11.40	7.00	
12	3.80	7.40	12.20	29.10	122.80	70.00	46.40	34.70	26.40	16.20	11.40	7.00	
13	3.80	6.10	11.40	25.20	77.00	60.80	40.30	32.60	27.00	16.20	11.00	7.00	
14	5.50	5.50	11.40	9.00	59.90	50.00	39.60	31.90	27.00	16.20	11.00	7.00	
15	5.80	5.20	10.60	8.60	51.80	40.30	36.10	34.70	26.40	15.60	10.60	7.00	
16	6.40	4.90	11.40	29.80	45.50	36.10	31.90	59.90	28.40	15.60	10.60	6.70	
17	7.40	4.90	13.80	82.00	48.20	34.00	98.80	96.40	26.40	15.00	10.20	6.70	
18	7.00	5.20	17.40	70.00	43.70	34.70	82.00	90.40	24.00	15.60	10.20	6.70	
19	6.70	7.00	25.80	38.90	38.90	38.20	72.00	76.00	22.80	15.60	10.20	6.70	
20	5.80	11.40	29.80	24.00	39.60	40.30	56.30	63.50	22.20	15.60	10.20	6.40	
21	5.50	12.20	27.70	43.70	48.20	41.00	46.40	50.00	22.20	16.20	10.20	6.40	
22	4.90	18.60	31.20	47.30	48.20	38.20	48.20	42.80	21.60	15.60	9.80	6.10	
23	4.60	22.80	29.80	34.70	50.00	32.60	44.60	39.60	21.60	15.00	9.40	5.80	
24	4.30	31.90	24.60	26.40	54.50	33.30	41.00	36.80	21.00	14.60	9.40	5.80	
25	4.60	44.60	21.60	31.90	43.70	32.60	41.90	35.40	21.00	14.20	9.40	5.80	
26	11.80	45.50	15.60	26.40	39.60	36.80	41.00	34.00	21.00	14.20	9.00	5.80	
27	9.40	24.00	13.80	25.80	36.80	38.20	56.30	32.60	21.00	13.40	8.60	5.80	
28	6.10	13.80	15.00	31.90	37.50	38.90	41.00	31.90	21.00	13.40	8.60	6.70	
29	5.20	10.60	13.80	34.00	36.10	38.90	37.50	31.20	20.40	13.40		7.00	
30	4.60	9.40	13.40	38.90	34.70	42.80	34.70	30.50	19.80	13.40		7.00	
31		12.60		40.30	33.80		33.30		19.80	13.40		6.70	
TOTAL	157.50	426.80	484.90	1033.30	1713.10	1509.20	1442.30	1256.10	752.40	493.40	304.00	216.30	9789.28 CMSDAY
MEAN	5.25	13.77	16.16	33.33	55.26	50.31	46.53	41.87	24.27	15.92	10.86	6.98	26.82 CMS
MAX	11.80	45.50	31.20	82.00	146.80	146.80	98.80	96.40	29.10	19.20	13.00	8.20	146.80 CMS
MIN	3.80	3.80	9.80	8.60	33.30	32.60	31.20	29.80	19.80	13.40	8.60	5.80	3.80 CMS
RUNOFF	13.608	36.875	41.895	89.277	148.012	130.395	124.615	108.527	65.007	42.630	26.266	18.688	845.794 MCM

MOMENTARY PEAK 241.20 CMS, AT 279.02 M (MSL), AT 12.00 HOURS, ON AUG 11, 1981
RUNOFF YIELD 6.96 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +271.351 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 11 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

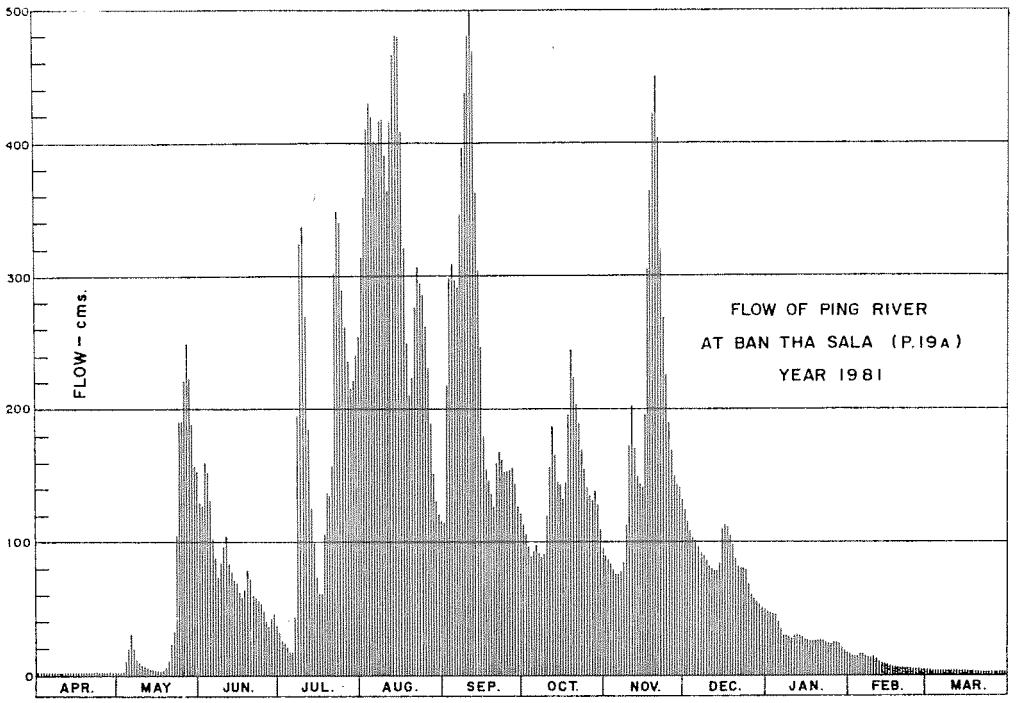
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 111 DISCHARGE MEASUREMENTS MADE IN 1981. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 28,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	271.98	271.93	273.38	272.56	274.33	273.27	273.28	273.08	273.36	272.73	272.37	272.09	
2	271.98	271.92	273.35	272.50	274.60	273.65	273.20	273.06	273.30	272.71	272.36	272.09	
3	271.97	271.92	273.56	272.48	274.82	274.29	273.14	273.04	273.23	272.71	272.36	272.09	
4	271.97	271.93	273.51	272.43	274.91	274.35	273.08	273.01	273.19	272.71	272.36	272.08	
5	271.97	272.38	273.35	272.38	274.88	274.31	273.10	272.97	273.17	272.66	272.38	272.08	
6	271.97	272.54	273.20	272.41	274.78	274.27	273.16	272.97	273.14	272.59	272.37	272.08	
7	271.96	272.45	273.08	272.80	274.78	274.40	273.12	272.99	273.10	272.54	272.36	272.07	
8	271.95	272.32	272.94	273.82	274.86	274.70	273.07	273.04	273.09	272.54	272.33	272.07	
9	271.94	272.27	273.00	274.43	274.86	274.91	273.10	273.26	273.05	272.54	272.33	272.07	
10	271.93	272.24	273.12	274.50	274.76	275.09	273.22	273.61	273.02	272.53	272.34	272.06	
11	271.93	272.20	273.20	274.13	274.62	275.19	273.50	273.81	273.01	272.54	272.33	272.06	
12	271.92	272.17	273.09	273.76	274.86	275.07	273.73	273.68	273.00	272.55	272.30	272.05	
13	271.93	272.13	273.02	273.49	275.03	274.77	273.59	273.53	273.00	272.55	272.26	272.05	
14	271.94	272.09	272.94	273.20	275.11	274.44	273.47	273.46	273.05	272.53	272.25	272.05	
15	271.94	272.08	272.91	272.98	275.11	274.09	273.46	273.45	273.24	272.51	272.24	272.05	
16	271.96	272.07	272.89	272.85	274.90	273.82	273.39	273.64	273.26	272.50	272.23	272.06	
17	271.97	272.07	272.82	272.85	274.51	273.58	273.47	274.25	273.24	272.49	272.21	272.06	
18	271.99	272.09	272.82	273.11	274.10	273.48	273.74	274.60	273.16	272.49	272.20	272.04	
19	271.98	272.15	272.99	273.42	273.85	273.40	274.03	274.87	273.10	272.50	272.20	272.03	
20	271.98	272.27	272.95	273.37	273.93	273.36	273.98	274.99	273.05	272.50	272.20	272.03	
21	271.95	272.43	272.84	273.52	274.17	273.56	273.85	274.76	273.03	272.50	272.18	272.04	
22	271.95	272.55	272.82	274.24	274.34	273.61	273.75	274.43	273.02	272.50	272.17	272.04	
23	271.95	273.02	272.81	274.55	274.30	273.57	273.61	274.15	273.01	272.49	272.15	272.02	
24	271.95	273.75	272.80	274.51	274.24	273.51	273.52	273.93	273.00	272.47	272.14	272.02	
25	271.95	273.76	272.75	274.27	274.14	273.52	273.46	273.76	272.92	272.46	272.12	272.01	
26	271.96	273.93	272.65	274.11	273.96	273.53	273.43	273.62	272.84	272.48	272.11	272.02	
27	271.98	274.06	272.60	274.01	273.71	273.54	273.38	273.50	272.82	272.48	272.10	272.01	
28	271.96	273.89	272.67	273.88	273.51	273.45	273.42	273.46	272.80	272.45	272.09	271.99	
29	271.95	273.73	272.69	273.92	273.39	273.35	273.35	273.45	272.79	272.42		271.99	
30	271.93	273.58	272.63	274.01	273.35	273.35	273.27	273.40	272.75	272.40		271.99	
31		273.53		274.10	273.29		273.14		272.74	272.39		271.99	
MEAN	271.96	272.63	272.98	273.50	274.39	273.98	273.42	273.66	273.05	272.53	272.25	272.04	
MAX	271.99	274.06	273.56	274.55	275.11	275.19	274.03	274.99	273.36	272.73	272.38	272.09	275.19
MIN	271.92	271.92	272.60	272.38	273.29	273.27	273.07	272.97	272.74	272.39	272.09	271.99	271.92

ANNUAL MAX MOMENTARY GAGE HEIGHT 275.20 M (MSL), AT 12.00 HOURS, ON SEP 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 271.35 M (MSL), RIVER BED 271.13 M (MSL)
LEFT BANK ELEVATION 276.84 M (MSL)
RIGHT BANK ELEVATION 276.12 M (MSL), DRAINAGE AREA 14023 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.40	3.90	128.19	37.80	295.99	113.10	114.40	89.60	125.39	53.00	24.20	9.60	
2	5.40	3.60	124.00	33.00	353.00	168.00	104.00	87.19	116.99	51.00	23.60	9.60	
3	5.10	3.60	153.99	31.59	405.19	287.99	96.80	84.79	107.89	51.00	23.60	9.60	
4	5.10	3.90	146.49	28.10	428.60	300.00	89.60	81.19	102.80	51.00	23.60	9.20	
5	5.10	24.80	124.00	24.80	420.79	291.99	92.00	77.00	100.40	46.40	24.80	9.20	
6	5.10	36.19	104.00	26.70	395.20	283.99	99.20	77.00	96.80	40.20	24.20	9.20	
7	4.80	29.50	89.60	60.00	395.20	309.99	94.40	78.99	92.00	36.19	23.60	8.80	
8	4.50	21.20	74.00	196.40	415.58	376.00	88.40	84.79	90.80	36.19	21.80	8.80	
9	4.20	18.20	79.99	315.99	415.58	428.60	92.00	111.80	85.99	36.19	21.80	8.80	
10	3.90	16.40	94.40	329.99	390.39	475.40	106.60	161.59	82.40	35.40	22.40	8.40	
11	3.90	14.00	104.00	255.99	357.59	501.40	144.99	194.70	81.19	36.19	21.80	8.40	
12	3.60	12.80	90.80	186.20	415.58	470.20	181.09	172.80	79.99	37.00	20.00	8.00	
13	3.90	11.20	82.40	143.59	459.80	392.80	158.50	149.50	79.99	37.00	17.60	8.00	
14	4.20	9.60	74.00	104.00	480.59	317.99	140.80	139.39	85.99	35.40	17.00	8.00	
15	4.20	9.20	71.00	77.99	480.59	248.00	139.39	137.99	109.20	33.80	16.40	8.00	
16	4.80	8.80	69.00	65.00	426.00	196.40	129.59	166.40	111.80	33.00	15.80	8.40	
17	5.10	8.80	62.00	65.00	332.29	157.00	140.80	279.99	109.20	32.30	14.60	8.40	
18	5.70	9.60	62.00	93.19	250.00	142.19	182.80	353.00	99.20	32.30	14.00	7.60	
19	5.40	12.00	78.99	133.79	201.50	131.00	236.00	418.19	92.00	33.00	14.00	7.20	
20	5.40	18.20	75.00	126.79	215.99	125.39	225.99	449.39	85.99	33.00	14.00	7.20	
21	4.50	28.10	64.00	147.99	263.99	153.99	201.50	390.39	83.60	33.00	13.20	7.60	
22	4.50	37.00	62.00	277.99	298.00	161.59	184.50	315.99	82.40	33.00	12.80	7.60	
23	4.50	82.40	61.00	341.49	289.99	155.49	161.59	260.00	81.19	32.30	12.00	6.80	
24	4.50	184.50	60.00	332.29	277.99	146.49	147.99	215.99	79.99	30.90	11.60	6.80	
25	4.50	186.20	55.00	283.99	258.00	147.99	139.39	186.20	71.99	30.20	10.80	6.40	
26	4.80	215.99	45.50	251.99	222.00	149.50	135.19	163.19	64.00	31.59	10.40	6.80	
27	5.40	241.99	41.00	232.00	177.70	150.99	128.19	144.99	62.00	31.59	10.00	6.40	
28	4.80	208.30	47.30	206.60	146.49	137.99	133.79	139.39	60.00	29.50	9.60	5.70	
29	4.50	181.09	49.10	213.99	129.59	124.00	124.00	137.99	59.00	27.40		5.70	
30	3.90	157.00	43.70	232.00	124.00	124.00	113.10	131.00	55.00	26.00		5.70	
31		149.50		250.00	115.69		96.80		54.00	25.40		5.70	
TOTAL	140.70	1947.56	2416.45	5106.24	9838.88	7169.45	4223.39	5480.41	2689.18	1110.44	489.20	241.60	40853.46 CMSDAY
MEAN	4.69	62.82	80.55	164.72	317.38	238.98	136.24	182.68	86.75	35.82	17.47	7.79	111.93 CMS
MAX	5.70	241.99	153.99	341.49	480.59	501.40	236.00	449.39	125.39	53.00	24.80	9.60	501.40 CMS
MIN	3.60	3.60	41.00	24.80	115.69	113.10	88.40	77.00	54.00	25.40	9.60	5.70	3.60 CMS
RUNOFF	12.156	168.269	208.781	441.179	850.079	619.441	364.901	473.508	232.345	95.942	42.267	20.874	3529.739 MCM

MOMENTARY PEAK 504.00 CMS, AT 275.20 M (MSL), AT 12.00 HOURS, ON SEP 11, 1981

RUNOFF YIELD 7.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

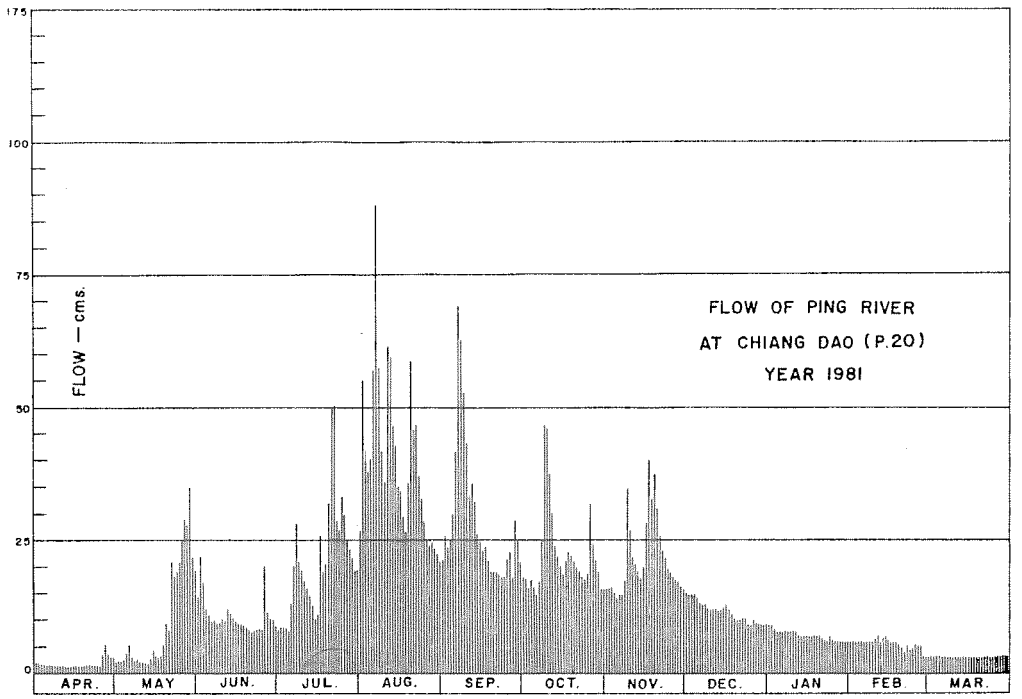
PING RIVER AT CHIANG DAO, CHIANG MAI (P.20)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	0.63	0.94	0.81	1.19	1.08	1.00	0.97	0.96	0.83	0.75	0.72	
2	0.61	0.63	1.08	0.82	1.50	1.13	1.00	0.98	0.96	0.83	0.75	0.73	
3	0.61	0.63	0.96	0.81	1.37	1.11	0.98	0.97	0.96	0.82	0.76	0.72	
4	0.61	0.63	0.91	0.80	1.30	1.15	1.00	0.96	0.95	0.82	0.76	0.74	
5	0.61	0.70	0.88	0.81	1.37	1.22	0.97	0.94	0.94	0.81	0.77	0.74	
6	0.61	0.73	0.84	0.99	1.65	1.39	0.96	0.95	0.93	0.81	0.75	0.74	
7	0.61	0.65	0.85	1.06	1.84	1.65	0.97	0.96	0.93	0.80	0.75	0.74	
8	0.61	0.63	0.83	1.16	1.50	1.56	1.10	1.02	0.92	0.82	0.75	0.69	
9	0.61	0.64	0.84	1.04	1.36	1.43	1.42	1.27	0.91	0.81	0.76	0.68	
10	0.60	0.63	0.85	1.04	1.28	1.34	1.41	1.14	0.91	0.81	0.77	0.67	
11	0.58	0.62	0.85	0.99	1.58	1.25	1.25	1.08	0.91	0.81	0.77	0.67	
12	0.58	0.62	0.90	0.96	1.56	1.28	1.16	1.04	0.91	0.79	0.77	0.67	
13	0.58	0.61	0.88	0.96	1.42	1.19	1.11	1.02	0.90	0.79	0.77	0.67	
14	0.59	0.62	0.86	0.92	1.34	1.14	1.07	1.01	0.90	0.79	0.77	0.67	
15	0.59	0.70	0.84	0.87	1.26	1.12	1.04	1.04	0.93	0.78	0.78	0.67	
16	0.60	0.66	0.83	0.86	1.27	1.09	1.02	1.14	0.92	0.78	0.78	0.67	
17	0.63	0.66	0.83	1.13	1.19	1.10	1.09	1.33	0.90	0.78	0.77	0.67	
18	0.63	0.67	0.82	1.02	1.15	1.06	1.09	1.24	0.89	0.78	0.78	0.67	
19	0.63	0.69	0.80	1.06	1.33	1.03	1.08	1.29	0.87	0.79	0.78	0.66	
20	0.61	0.83	0.80	1.27	1.55	1.02	1.05	1.22	0.86	0.79	0.77	0.66	
21	0.61	0.78	0.79	1.45	1.40	1.02	1.04	1.15	0.85	0.77	0.77	0.66	
22	0.60	1.05	0.80	1.45	1.42	1.02	1.04	1.11	0.85	0.77	0.76	0.67	
23	0.59	1.00	0.82	1.18	1.29	1.01	1.01	1.07	0.85	0.77	0.76	0.66	
24	0.59	1.03	0.81	1.15	1.23	1.03	1.00	1.04	0.84	0.78	0.77	0.66	
25	0.60	1.06	0.80	1.23	1.18	1.08	1.03	1.02	0.84	0.77	0.77	0.66	
26	0.70	1.14	1.04	1.17	1.14	1.09	1.22	1.01	0.85	0.77	0.76	0.66	
27	0.73	1.18	0.90	1.12	1.11	1.01	1.10	1.00	0.84	0.76	0.76	0.66	
28	0.67	1.16	0.87	1.10	1.12	1.18	1.06	0.99	0.84	0.75	0.74	0.66	
29	0.66	1.26	0.86	1.06	1.09	1.11	1.01	0.98	0.83	0.75		0.66	
30	0.63	1.08	0.83	1.02	1.09	1.03	0.98	0.97	0.84	0.75		0.66	
31		1.02		1.04	1.06		0.97		0.84	0.75		0.66	
MEAN	0.62	0.80	0.86	1.04	1.33	1.16	1.07	1.06	0.89	0.79	0.76	0.68	
MAX	0.73	1.26	1.08	1.45	1.84	1.65	1.42	1.33	0.96	0.83	0.78	0.74	1.84
MIN	0.58	0.61	0.79	0.80	1.06	1.01	0.96	0.94	0.83	0.75	0.74	0.66	0.58

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.96 M (A.D), AT 10.00 HOURS, ON AUG 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.78 M (A.D)
LEFT BANK ELEVATION 5.96 M (A.D)
RIGHT BANK ELEVATION 7.07 M (A.D), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.00	2.25	14.40	8.40	30.30	22.80	18.00	16.20	15.60	9.20	6.00	4.80	
2	1.75	2.25	22.80	8.80	55.00	26.10	18.00	16.80	15.60	9.20	6.00	5.20	
3	1.75	2.25	15.60	8.40	43.60	24.70	16.80	16.20	15.60	8.80	6.40	4.80	
4	1.75	2.25	12.60	8.00	38.00	27.50	18.00	15.60	15.00	8.80	6.40	5.60	
5	1.75	4.00	11.20	8.40	43.60	32.40	16.20	14.40	14.40	8.40	6.80	5.60	
6	1.75	5.20	9.60	17.40	69.00	45.20	15.60	15.00	13.80	8.40	6.00	5.60	
7	1.75	2.75	10.00	21.60	88.80	69.00	16.20	15.60	13.80	8.00	6.00	5.60	
8	1.75	2.25	9.20	28.20	55.00	60.40	24.00	19.20	13.20	8.80	6.00	3.75	
9	1.75	2.50	9.60	20.40	42.80	48.70	47.80	35.90	12.60	8.40	6.40	3.50	
10	1.50	2.25	10.00	20.40	36.60	41.20	46.90	26.80	12.60	8.40	6.80	3.25	
11	1.20	2.00	10.00	17.40	62.20	34.50	34.50	22.80	12.60	8.40	6.80	3.25	
12	1.20	2.00	12.00	15.60	60.40	36.60	28.20	20.40	12.60	7.60	6.80	3.25	
13	1.20	1.75	11.20	15.60	47.80	30.30	24.70	19.20	12.00	7.60	6.80	3.25	
14	1.35	2.00	10.40	13.20	41.20	26.80	22.20	18.60	12.00	7.60	6.80	3.25	
15	1.35	4.00	9.60	10.80	35.20	25.40	20.40	20.40	13.80	7.20	7.20	3.25	
16	1.50	3.00	9.20	10.40	35.90	23.40	19.20	26.80	13.20	7.20	7.20	3.25	
17	2.25	3.00	9.20	26.10	30.30	24.00	23.40	40.40	12.00	7.20	6.80	3.25	
18	2.25	3.25	8.80	19.20	27.50	21.60	23.40	33.80	11.60	7.20	7.20	3.25	
19	2.25	3.75	8.00	21.60	40.40	19.80	22.80	37.30	10.80	7.60	7.20	3.00	
20	1.75	9.20	8.00	35.90	59.50	19.20	21.00	32.40	10.40	7.60	6.80	3.00	
21	1.75	7.20	7.60	50.50	46.00	19.20	20.40	27.50	10.00	6.80	6.80	3.00	
22	1.50	21.00	8.00	50.50	47.80	19.20	20.40	24.70	10.00	6.80	6.40	3.25	
23	1.35	18.00	8.80	29.60	37.30	18.60	18.60	22.20	10.00	6.80	6.40	3.00	
24	1.35	19.80	8.40	27.50	33.10	19.80	18.00	20.40	9.60	7.20	6.80	3.00	
25	1.50	21.60	8.00	33.10	29.60	22.80	19.80	19.20	9.60	6.80	6.80	3.00	
26	4.00	26.80	20.40	28.90	26.80	23.40	32.40	18.60	10.00	6.80	6.40	3.00	
27	5.20	29.60	12.00	25.40	24.70	18.60	24.00	18.00	9.60	6.40	6.40	3.00	
28	3.25	28.20	10.80	24.00	25.40	29.60	21.60	17.40	9.60	6.00	5.60	3.00	
29	3.00	35.20	10.40	21.60	23.40	24.70	18.60	16.80	9.20	6.00		3.00	
30	2.25	22.80	9.20	19.20	23.40	19.80	16.80	16.20	9.60	6.00		3.00	
31		19.20		20.40	21.60		16.20		9.60	6.00		3.00	
TOTAL	58.95	311.30	325.00	666.50	1282.20	875.30	704.10	664.80	370.00	233.20	184.00	112.95	5788.29 CMSDAY
MEAN	1.96	10.04	10.83	21.50	41.36	29.18	22.71	22.16	11.94	7.52	6.57	3.64	15.86 CMS
MAX	5.20	35.20	22.80	50.50	88.80	69.00	47.80	40.40	15.60	9.20	7.20	5.60	88.80 CMS
MIN	1.20	1.75	7.60	8.00	21.60	18.60	15.60	14.40	9.20	6.00	5.60	3.00	1.20 CMS
RUNOFF	5.093	26.896	28.080	57.586	110.782	75.626	60.834	57.439	31.968	20.148	15.898	9.759	500.108 MCM

MOMENTARY PEAK 103.20 CMS, AT 1.96 M (A.D), AT 10.00 HOURS, ON AUG 7, 1981

RUNOFF YIELD 11.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 76.16 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +319.70 M.(M.S.L.)

BENCH MARK — B.M.-H.D. NO. 4

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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

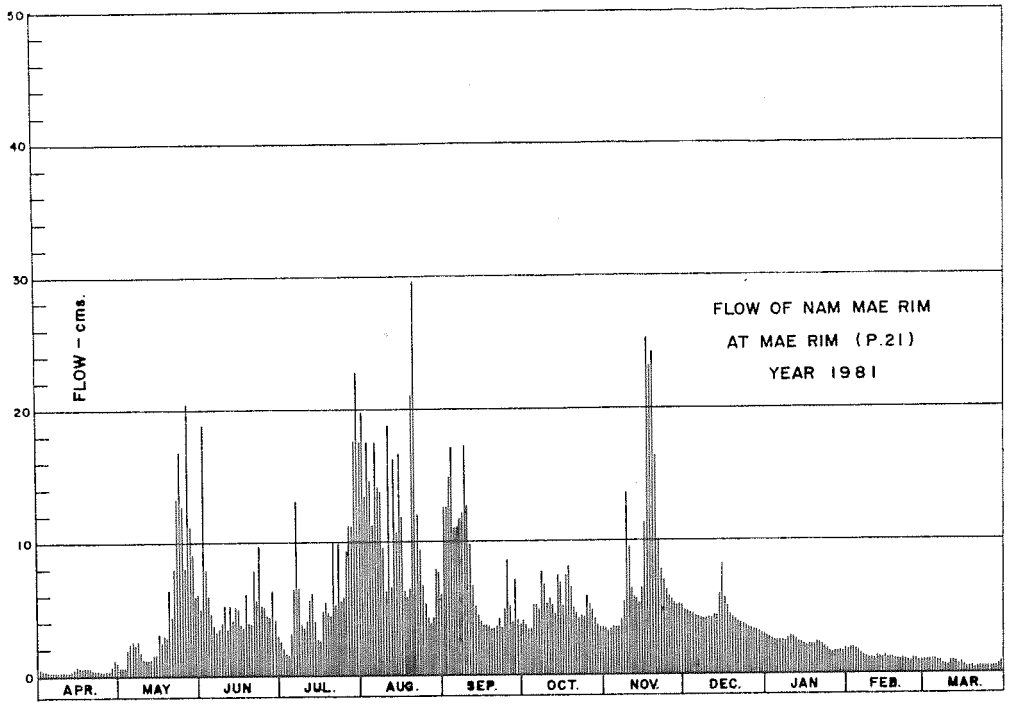
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	320.15	320.26	320.81	320.56	321.72	321.35	320.72	320.66	320.79	320.59	320.47	320.28	
2	320.12	320.24	321.68	320.46	321.40	321.35	320.68	320.63	320.77	320.57	320.47	320.33	
3	320.13	320.23	321.16	320.42	321.62	321.48	320.63	320.64	320.77	320.56	320.47	320.30	
4	320.12	320.46	320.88	320.41	321.46	321.59	320.66	320.65	320.76	320.52	320.46	320.32	
5	320.10	320.51	320.83	320.41	321.26	321.26	320.82	320.67	320.75	320.52	320.43	320.29	
6	320.08	320.56	320.70	320.86	321.62	321.26	320.83	320.65	320.74	320.54	320.40	320.29	
7	320.08	320.36	320.63	321.38	321.44	321.30	320.78	320.70	320.74	320.54	320.38	320.29	
8	320.07	320.28	320.64	320.99	321.42	321.09	321.04	320.84	320.73	320.55	320.34	320.26	
9	320.07	320.37	320.69	320.76	321.13	321.60	320.94	321.41	320.72	320.59	320.34	320.25	
10	320.10	320.36	320.81	320.66	320.91	321.45	320.81	321.33	320.70	320.59	320.35	320.29	
11	320.09	320.33	320.65	320.71	321.68	321.18	320.87	320.96	320.72	320.57	320.34	320.29	
12	320.09	320.33	320.82	320.85	320.92	320.95	320.84	320.88	320.74	320.55	320.39	320.29	
13	320.10	320.32	320.70	320.91	321.55	320.84	320.76	320.87	320.75	320.50	320.37	320.25	
14	320.22	320.40	320.83	320.72	321.25	320.75	321.02	320.84	320.85	320.51	320.37	320.25	
15	320.25	320.38	320.80	320.55	321.57	320.71	320.97	320.92	321.07	320.49	320.38	320.26	
16	320.23	320.61	320.69	320.52	321.24	320.68	320.82	321.37	320.88	320.47	320.39	320.23	
17	320.17	320.53	320.65	320.79	320.93	320.69	321.00	321.94	320.80	320.49	320.37	320.17	
18	320.21	320.60	320.90	320.85	320.87	320.68	321.07	321.86	320.76	320.50	320.36	320.19	
19	320.21	320.60	320.71	320.76	320.94	320.65	320.97	321.90	320.73	320.50	320.34	320.21	
20	320.15	320.93	320.69	320.74	321.55	320.67	320.84	321.58	320.72	320.52	320.32	320.18	
21	320.14	320.75	321.04	321.19	322.08	320.68	320.79	321.19	320.71	320.53	320.31	320.21	
22	320.15	321.10	320.87	320.84	321.42	320.72	320.74	321.06	320.71	320.51	320.32	320.20	
23	320.11	321.48	321.18	321.18	321.18	320.66	320.75	320.99	320.69	320.45	320.30	320.20	
24	320.13	321.58	320.83	320.85	321.00	320.65	320.74	320.93	320.67	320.44	320.31	320.22	
25	320.12	321.39	320.82	320.88	320.88	321.10	320.88	320.89	320.66	320.42	320.29	320.19	
26	320.11	321.07	320.75	321.14	320.75	320.84	320.83	320.85	320.66	320.42	320.32	320.19	
27	320.15	321.75	320.74	321.27	320.70	320.71	320.78	320.83	320.64	320.41	320.30	320.21	
28	320.26	321.29	320.92	321.27	320.76	320.99	320.72	320.81	320.63	320.43	320.30	320.23	
29	320.34	321.13	320.72	321.64	321.05	320.74	320.67	320.82	320.61	320.43		320.24	
30	320.22	320.89	320.65	321.84	321.04	320.69	320.66	320.81	320.60	320.45		320.30	
31		320.91		321.62	320.91		320.66		320.60	320.45		320.32	
MEAN	320.15	320.71	320.83	320.90	321.23	320.98	320.82	321.02	320.73	320.50	320.36	320.25	
MAX	320.34	321.75	321.68	321.84	322.08	321.60	321.07	321.94	321.07	320.59	320.47	320.33	322.08
MIN	320.07	320.23	320.63	320.41	320.70	320.65	320.63	320.63	320.60	320.41	320.29	320.17	320.07

ANNUAL MAX MOMENTARY GAGE HEIGHT 322.60 M (MSL), AT 18.00 HOURS, ON SEP 1, 1981
ZERO GAGE AT BOTTOM ELEVATION 319.70 M (MSL), RIVER BED 119.10 M (MSL)
LEFT BANK ELEVATION 322.99 M (MSL)
RIGHT BANK ELEVATION 323.11 M (MSL), DRAINAGE AREA 515 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	NNUAL
1	0.30	0.72	5.01	2.63	19.78	12.55	4.06	3.49	4.79	2.87	1.94	0.81	
2	0.21	0.63	18.86	1.87	13.40	12.55	3.67	3.22	4.58	2.71	1.94	1.06	
3	0.24	0.58	9.47	1.59	17.54	14.84	3.22	3.31	4.58	2.63	1.94	0.90	
4	0.21	1.87	5.78	1.52	14.48	16.91	3.49	3.40	4.48	2.31	1.87	1.01	
5	0.15	2.23	5.23	1.52	11.04	11.04	5.12	3.58	4.37	2.31	1.66	0.85	
6	0.12	2.63	3.85	5.56	17.54	11.04	5.23	3.40	4.27	2.47	1.45	0.85	
7	0.12	1.23	3.22	13.06	14.12	11.70	4.69	3.85	4.27	2.47	1.34	0.85	
8	0.10	0.81	3.31	7.08	13.76	8.46	7.76	5.34	4.16	2.55	1.12	0.72	
9	0.10	1.28	3.76	4.48	9.03	17.10	6.48	13.58	4.06	2.87	1.12	0.67	
10	0.15	1.23	5.01	3.49	6.12	14.30	5.01	12.21	3.85	2.87	1.17	0.85	
11	0.13	1.06	3.40	3.95	18.86	9.76	5.67	6.72	4.06	2.71	1.12	0.85	
12	0.13	1.06	5.12	5.45	6.24	6.60	5.34	5.78	4.27	2.55	1.34	0.85	
13	0.15	1.01	3.85	6.12	16.15	5.34	4.48	5.67	4.37	2.15	1.28	0.67	
14	0.54	1.45	5.23	4.06	10.87	4.37	7.48	5.34	5.45	2.23	1.28	0.67	
15	0.67	1.34	4.90	2.55	16.53	3.95	6.84	6.24	8.18	2.08	1.34	0.72	
16	0.58	3.04	3.76	2.31	10.71	3.67	5.12	12.89	5.78	1.94	1.39	0.58	
17	0.36	2.39	3.40	4.79	6.36	3.76	7.20	25.32	4.90	2.08	1.28	0.36	
18	0.49	2.95	6.00	5.45	5.67	3.67	8.18	23.20	4.48	2.15	1.23	0.42	
19	0.49	2.95	3.95	4.48	6.48	3.40	6.84	24.20	4.16	2.15	1.12	0.49	
20	0.30	6.36	3.76	4.27	16.15	3.58	5.34	16.72	4.06	2.31	1.01	0.39	
21	0.27	4.37	7.76	9.90	29.60	3.67	4.79	9.90	3.95	2.39	0.95	0.49	
22	0.30	8.60	5.67	5.34	13.76	4.06	4.27	8.04	3.95	2.23	1.01	0.45	
23	0.18	14.84	9.76	9.76	9.76	3.49	4.37	7.08	3.76	1.80	0.90	0.45	
24	0.24	16.72	5.23	5.45	7.20	3.40	4.27	6.36	3.58	1.73	0.95	0.54	
25	0.21	13.23	5.12	5.78	5.78	8.60	5.78	5.89	3.49	1.59	0.85	0.42	
26	0.18	8.18	4.37	9.18	4.37	5.34	5.23	5.45	3.49	1.59	1.01	0.42	
27	0.30	20.50	4.27	11.20	3.85	3.95	4.69	5.23	3.31	1.52	0.90	0.49	
28	0.72	11.53	6.24	11.20	4.48	7.08	4.06	5.01	3.22	1.66	0.90	0.58	
29	1.12	9.03	4.06	17.98	7.90	4.27	3.58	5.12	3.04	1.66		0.63	
30	0.54	5.89	3.40	22.70	7.76	3.76	3.49	5.01	2.95	1.80		0.90	
31		6.12		17.54	6.12		3.49		2.95	1.80		1.01	
TOTAL	9.60	155.83	162.75	212.26	351.41	226.21	159.24	250.55	130.81	68.18	35.41	20.95	1783.20 CMSDAY
MEAN	0.32	5.03	5.42	6.85	11.34	7.54	5.14	8.35	4.22	2.20	1.26	0.68	4.89 CMS
MAX	1.12	20.50	18.86	22.70	29.60	17.10	8.18	25.32	8.18	2.87	1.94	1.06	29.60 CMS
MIN	0.10	0.58	3.22	1.52	3.85	3.40	3.22	3.22	2.95	1.52	0.85	0.36	0.10 CMS
RUNOFF	0.829	13.464	14.062	18.339	30.362	19.545	13.758	21.647	11.302	5.891	3.059	1.810	154.068 MCM

MOMENTARY PEAK 46.50 CMS, AT 322.60 M (MSL), AT 18.00 HOURS, ON SEP 1, 1981
RUNOFF YIELD 9.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 90.29 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

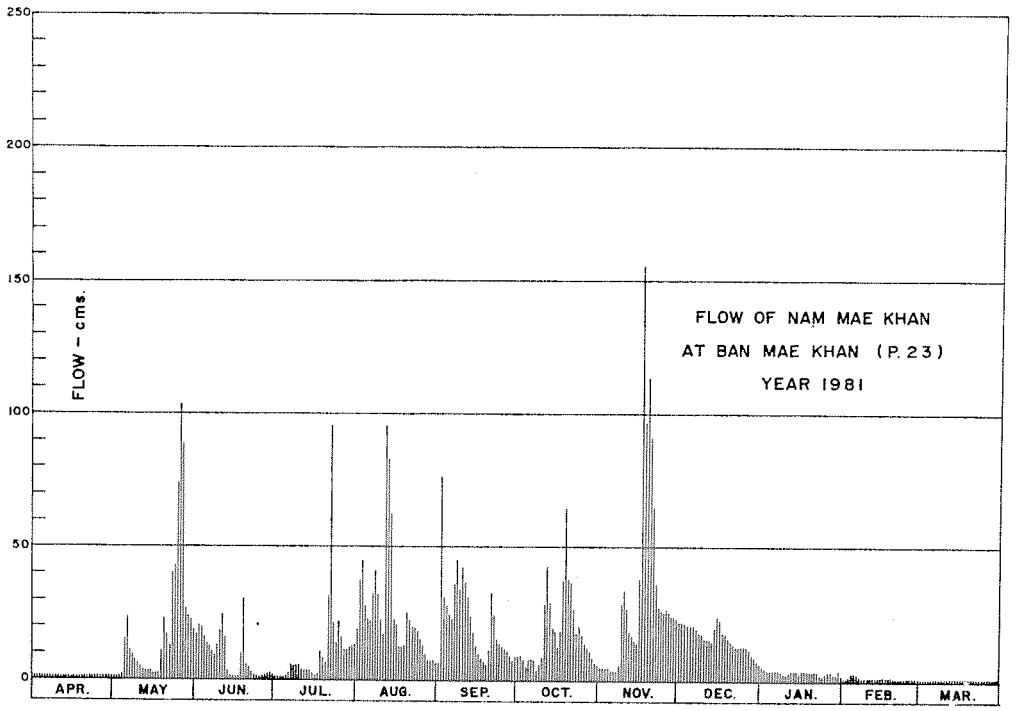
NAM MAE KHAN AT BAN MAE KHAN, CHIANG MAI (P.23)

LOCATION	LAT. 18°-31'-37" N., LONG. 98°-51'-42" E., ON LEFT BANK DOWNSTREAM SIDE OF MAE KHAN BRIDGE, AMPHOE SAN PA TONG, CHIANG MAI.
DRAINAGE AREA	1,777 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+285.622 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 10 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	286.77	286.75	287.48	286.64	287.53	287.20	287.32	287.15	287.60	287.17	286.69	286.63	
2	286.78	286.75	287.58	286.58	287.82	286.28	287.32	287.12	287.59	287.13	286.75	286.62	
3	286.79	286.76	287.56	286.51	287.94	287.75	287.26	287.11	287.59	287.12	286.87	286.62	
4	286.77	286.80	287.49	286.68	287.65	287.71	287.00	287.10	287.58	287.04	287.06	286.62	
5	286.77	287.42	287.45	286.83	287.62	287.66	287.25	287.09	287.57	287.03	287.02	286.61	
6	286.71	287.64	287.41	286.97	287.62	287.62	287.25	287.09	287.57	287.02	286.96	286.59	
7	286.68	287.37	287.35	287.18	287.78	287.84	287.15	287.08	287.55	287.01	286.84	286.59	
8	286.62	287.30	287.29	287.19	287.89	287.94	287.05	287.16	287.52	287.00	286.85	286.58	
9	286.63	287.22	287.44	287.18	287.75	287.78	287.21	287.71	287.50	287.00	286.80	286.56	
10	286.64	287.20	287.49	287.15	287.69	287.91	287.31	287.78	287.47	286.98	286.86	286.52	
11	286.64	287.17	287.65	287.03	287.50	287.81	287.75	287.61	287.47	286.98	286.87	286.52	
12	286.64	287.06	287.47	287.00	288.47	287.76	287.91	287.54	287.46	287.08	286.88	286.52	
13	286.63	287.05	287.01	287.02	288.30	287.61	287.66	287.49	287.45	287.02	286.84	286.52	
14	286.60	287.04	286.89	287.01	288.15	287.50	287.56	287.43	287.58	287.00	286.78	286.55	
15	286.57	287.00	286.79	286.98	287.61	287.41	287.54	287.44	287.63	286.98	286.78	286.57	
16	286.67	286.94	286.72	286.85	287.57	287.31	287.40	287.90	287.61	287.02	286.77	286.56	
17	286.65	286.90	286.68	286.90	287.41	287.25	287.56	288.94	287.52	287.02	286.76	286.56	
18	286.46	286.96	286.78	287.34	287.40	287.22	287.89	288.49	287.51	287.03	286.74	286.54	
19	286.60	287.33	287.74	287.24	287.42	287.19	288.16	288.62	287.45	287.09	286.75	286.54	
20	286.69	287.63	287.22	287.22	287.67	287.40	287.86	288.57	287.44	287.06	286.72	286.53	
21	286.71	287.49	287.11	287.38	287.62	287.77	287.83	288.11	287.42	287.01	286.70	286.53	
22	286.70	287.39	286.93	288.47	287.56	287.55	287.69	287.83	287.41	287.04	286.68	286.53	
23	286.68	287.87	286.87	287.58	287.56	287.44	287.50	287.70	287.41	286.97	286.66	286.53	
24	286.67	287.92	286.74	287.43	287.52	287.43	287.56	287.66	287.41	286.89	286.66	286.54	
25	286.67	288.21	286.68	287.62	287.45	287.39	287.46	287.67	287.40	286.98	286.65	286.52	
26	286.70	288.54	286.68	287.50	287.36	287.37	287.43	287.68	287.39	287.00	286.66	286.52	
27	286.76	288.40	286.73	287.37	287.26	287.37	287.37	287.66	287.36	287.07	286.65	286.52	
28	286.78	287.69	286.97	287.37	287.25	287.31	287.32	287.63	287.33	286.96	286.65	286.53	
29	286.76	287.64	286.96	287.39	287.24	287.26	287.24	287.63	287.29	286.92		286.53	
30	286.75	287.61	286.86	287.40	287.24	287.28	287.20	287.61	287.22	287.02		286.53	
31		287.55		287.43	287.22		287.18		287.20	286.89		286.53	
MEAN	286.68	287.37	287.13	287.18	287.61	287.54	287.46	287.65	287.47	287.02	286.78	286.55	
MAX	286.79	288.54	287.74	288.47	288.47	288.28	288.16	288.94	287.63	287.17	287.06	286.63	288.94
MIN	286.46	286.75	286.68	286.51	287.22	287.19	287.00	287.08	287.20	286.89	286.65	286.52	286.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 289.02 M (MSL), AT 7.00 HOURS, ON NOV 17, 1981
ZERO GAGE AT BOTTOM ELEVATION 285.62 M (MSL), RIVER BED 285.99 M (MSL)
LEFT BANK ELEVATION 291.87 M (MSL)
RIGHT BANK ELEVATION 291.98 M (MSL), DRAINAGE AREA 1777 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.18	1.10	16.10	0.66	18.35	6.00	9.70	5.00	21.50	5.40	0.86	0.62	
2	1.22	1.10	20.60	0.44	35.90	76.00	9.70	4.40	21.05	4.60	1.10	0.58	
3	1.26	1.14	19.70	0.23	44.50	31.00	7.80	4.20	21.05	4.40	1.79	0.58	
4	1.18	1.30	16.55	0.82	24.50	28.20	3.00	4.00	20.60	3.40	3.60	0.58	
5	1.18	13.40	14.75	1.51	22.70	25.10	7.50	3.90	20.15	3.30	3.20	0.54	
6	0.94	23.90	12.95	2.70	22.70	22.70	7.50	3.90	20.15	3.20	2.60	0.47	
7	0.82	11.45	10.75	5.60	33.10	37.30	5.00	3.80	19.25	3.10	1.58	0.47	
8	0.58	9.00	8.70	5.80	40.80	44.50	3.50	5.20	17.90	3.00	1.65	0.44	
9	0.62	6.60	14.30	5.60	31.00	33.10	6.30	28.20	17.00	3.00	1.30	0.38	
10	0.66	6.00	16.55	5.00	26.90	42.25	9.35	33.10	15.65	2.80	1.72	0.26	
11	0.66	5.40	24.50	3.30	17.00	35.20	31.00	22.10	15.65	2.80	1.79	0.26	
12	0.66	3.60	15.65	3.00	95.85	31.70	42.25	18.80	15.20	3.80	1.86	0.26	
13	0.62	3.50	3.10	3.20	78.00	22.10	25.10	16.55	14.75	3.20	1.58	0.26	
14	0.50	3.40	1.93	3.10	63.00	17.00	19.70	13.85	20.60	3.00	1.22	0.35	
15	0.41	3.00	1.26	2.80	22.10	12.95	18.80	14.30	23.30	2.80	1.22	0.41	
16	0.78	2.40	0.98	1.65	20.15	9.35	12.50	41.50	22.10	3.20	1.18	0.38	
17	0.70	2.00	0.82	2.00	12.95	7.50	19.70	155.29	17.90	3.20	1.14	0.38	
18	0.12	2.60	1.22	10.40	12.50	6.60	40.80	97.95	17.45	3.30	1.06	0.32	
19	0.50	10.05	30.30	7.20	13.40	5.80	64.00	113.40	14.75	3.90	1.10	0.32	
20	0.86	23.30	6.60	6.60	25.70	12.50	38.70	107.40	14.30	3.60	0.98	0.29	
21	0.94	16.55	4.20	11.80	22.70	32.40	36.60	59.00	13.40	3.10	0.90	0.29	
22	0.90	12.15	2.30	95.85	19.70	19.25	26.90	36.60	12.95	3.40	0.82	0.29	
23	0.82	39.40	1.79	20.60	19.70	14.30	17.00	27.50	12.95	2.70	0.74	0.29	
24	0.78	43.00	1.06	13.85	17.90	13.85	19.70	25.10	12.95	1.93	0.74	0.32	
25	0.78	69.00	0.82	22.70	14.75	12.15	15.20	25.70	12.50	2.80	0.70	0.26	
26	0.90	103.80	0.82	17.00	11.10	11.45	13.85	26.30	12.15	3.00	0.74	0.26	
27	1.14	88.50	1.02	11.45	7.80	11.45	11.45	25.10	11.10	3.70	0.70	0.26	
28	1.22	26.90	2.70	11.45	7.50	9.35	9.70	23.30	10.05	2.60	0.70	0.29	
29	1.14	23.90	2.60	12.15	7.20	7.80	7.20	23.30	8.70	2.20		0.29	
30	1.10	22.10	1.72	12.50	7.20	8.40	6.00	22.10	6.60	3.20		0.29	
31		19.25		13.85	6.60		5.60		6.00	1.93		0.29	
TOTAL	25.17	598.79	256.34	314.81	803.25	647.25	551.10	990.84	489.65	99.56	38.57	11.28	4826.60 CMSDAY
MEAN	0.84	19.32	8.54	10.16	25.91	21.57	17.78	33.03	15.80	3.21	1.38	0.36	13.22 CMS
MAX	1.26	103.80	30.30	95.85	95.85	76.00	64.00	155.29	23.30	5.40	3.60	0.62	155.29 CMS
MIN	0.12	1.10	0.82	0.23	6.60	5.80	3.00	3.80	6.00	1.93	0.70	0.26	0.12 CMS
RUNOFF	2.175	51.735	22.148	27.200	69.401	55.922	47.615	85.608	42.306	8.602	3.332	0.975	417.018 MCM

MOMENTARY PEAK 166.99 CMS. AT 289.02 M (MSL), AT 7.00 HOURS, ON NOV 17, 1981

RUNOFF YIELD 7.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 93.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 ABUTMENT OF PRACHA UTHIT BRIDGE.

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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 97 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

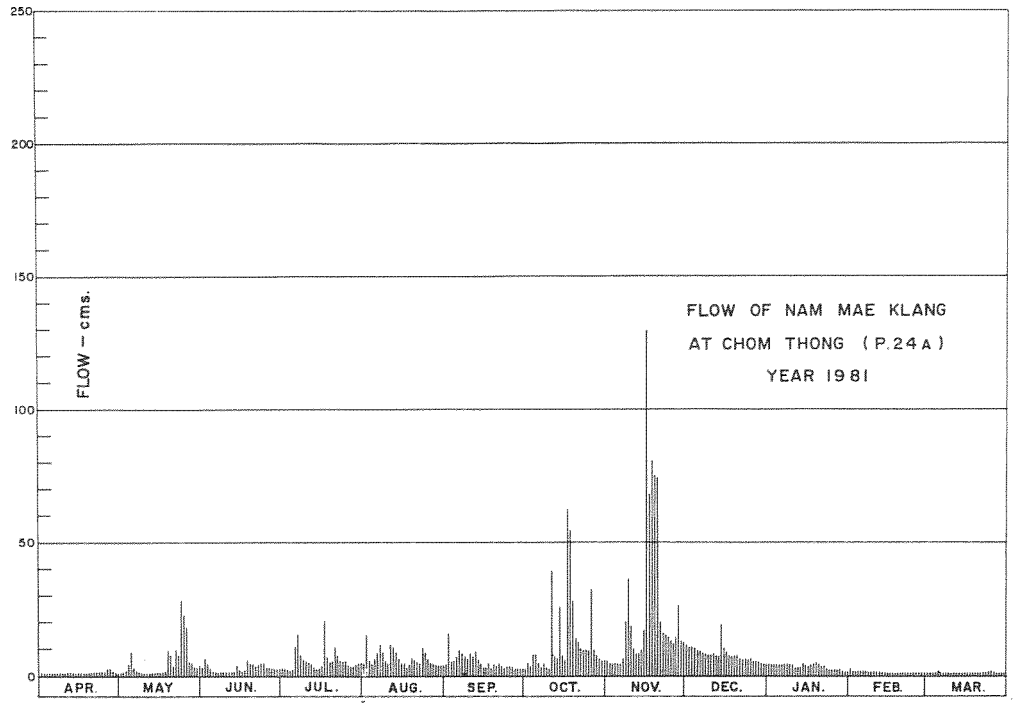
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	275.32	275.43	275.62	275.62	275.74	275.72	275.64	275.80	276.09	275.77	275.60	275.47	
2	275.33	275.40	275.89	275.64	276.22	276.28	275.74	275.79	276.07	275.76	275.59	275.47	
3	275.32	275.41	275.76	275.60	275.89	275.82	275.69	275.79	276.05	275.76	275.59	275.47	
4	275.33	275.74	275.64	275.53	275.78	275.80	275.92	275.78	276.04	275.76	275.59	275.47	
5	275.34	275.95	275.58	275.51	275.88	275.92	275.92	275.79	276.01	275.77	275.57	275.47	
6	275.34	275.59	275.53	276.10	275.96	276.00	275.71	275.77	276.00	275.76	275.53	275.46	
7	275.34	275.54	275.49	276.25	276.11	275.97	275.68	275.88	275.99	275.76	275.52	275.46	
8	275.34	275.46	275.54	275.90	275.93	275.91	275.76	276.19	275.98	275.74	275.52	275.46	
9	275.34	275.45	275.58	275.82	275.83	275.85	275.70	276.90	275.96	275.74	275.51	275.46	
10	275.34	275.44	275.54	275.81	275.78	275.96	275.66	276.27	275.91	275.74	275.51	275.45	
11	275.31	275.43	275.55	275.77	276.10	275.91	276.98	276.06	275.97	275.72	275.51	275.45	
12	275.31	275.44	275.56	275.75	276.07	275.96	275.94	275.99	275.94	275.71	275.50	275.46	
13	275.31	275.42	275.57	275.68	275.92	275.83	275.89	275.99	275.91	275.72	275.49	275.47	
14	275.34	275.42	275.68	275.62	275.85	275.74	276.59	276.00	276.38	275.74	275.50	275.47	
15	275.34	275.41	275.65	275.65	275.78	275.67	275.92	276.27	276.09	275.73	275.50	275.46	
16	275.41	275.41	275.56	275.73	275.77	275.67	275.84	278.62	275.97	275.72	275.49	275.46	
17	275.43	275.43	275.54	276.41	275.73	275.75	277.50	277.62	275.94	275.74	275.50	275.46	
18	275.41	275.42	275.81	275.86	275.71	275.64	277.33	277.84	275.93	275.75	275.49	275.46	
19	275.41	276.00	275.75	275.79	275.88	275.75	276.55	277.76	275.92	275.75	275.48	275.46	
20	275.39	275.91	275.74	275.80	275.83	275.70	276.20	277.73	275.91	275.74	275.48	275.46	
21	275.39	275.61	275.73	276.04	275.79	275.76	276.15	276.44	275.89	275.67	275.48	275.45	
22	275.38	276.00	275.74	275.92	275.75	275.67	276.07	276.29	275.88	275.67	275.47	275.45	
23	275.36	275.88	275.70	275.78	276.06	275.61	276.00	276.24	275.87	275.64	275.47	275.48	
24	275.36	276.65	275.67	275.81	275.99	275.71	276.03	276.20	275.86	275.63	275.48	275.45	
25	275.36	276.54	275.64	275.82	275.83	275.67	276.03	276.16	275.85	275.64	275.48	275.46	
26	275.36	276.30	275.64	275.71	275.77	275.68	276.80	276.14	275.84	275.63	275.48	275.45	
27	275.62	275.79	275.61	275.68	275.74	275.63	275.99	276.11	275.81	275.62	275.48	275.51	
28	275.47	275.76	275.63	275.71	275.72	275.60	275.90	276.61	275.80	275.60	275.47	275.48	
29	275.44	275.67	275.61	275.76	275.69	275.60	275.88	276.17	275.79	275.58		275.48	
30	275.40	275.62	275.60	275.70	275.68	275.62	275.84	276.12	275.78	275.59		275.48	
31		275.71		275.79	275.67		275.81		275.77	275.59		275.48	
MEAN	275.37	275.68	275.64	275.79	275.85	275.78	276.09	276.41	275.94	275.70	275.51	275.46	
MAX	275.62	276.65	275.89	276.41	276.22	276.28	277.50	278.62	276.38	275.77	275.60	275.51	278.62
MIN	275.31	275.40	275.49	275.51	275.67	275.60	275.64	275.77	275.77	275.58	275.47	275.45	275.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 279.12 M (MSL), AT 8.00 HOURS, ON NOV 16, 1981

ZERO GAGE AT BOTTOM ELEVATION 274.69 M (MSL), RIVER BED 275.17 M (MSL)

LEFT BANK ELEVATION 280.43 M (MSL)

RIGHT BANK ELEVATION 280.39 M (MSL), DRAINAGE AREA 460 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.26	0.65	2.30	2.30	4.10	3.80	2.60	5.00	11.40	4.55	2.00	0.85	
2	0.29	0.50	6.80	2.60	14.86	16.46	4.10	4.85	10.86	4.40	1.90	0.85	
3	0.26	0.55	4.40	2.00	6.80	5.40	3.35	4.85	10.33	4.40	1.90	0.85	
4	0.29	4.10	2.60	1.30	4.70	5.00	7.40	4.70	10.06	4.40	1.90	0.85	
5	0.32	8.00	1.80	1.10	6.60	7.40	7.40	4.85	9.26	4.55	1.70	0.85	
6	0.32	1.90	1.30	11.66	8.20	9.00	3.65	4.55	9.00	4.40	1.30	0.80	
7	0.32	1.40	0.95	15.67	11.93	8.40	3.20	6.60	8.80	4.40	1.20	0.80	
8	0.32	0.80	1.40	7.00	7.60	7.20	4.40	14.07	8.60	4.10	1.20	0.80	
9	0.32	0.75	1.80	5.40	5.60	6.00	3.50	36.33	8.20	4.10	1.10	0.80	
10	0.32	0.70	1.40	5.20	4.70	8.20	2.90	16.20	7.20	4.10	1.10	0.75	
11	0.23	0.65	1.50	4.55	11.66	7.20	39.26	10.60	8.40	3.80	1.10	0.75	
12	0.23	0.70	1.60	4.25	10.86	8.20	7.80	8.80	7.80	3.65	1.00	0.80	
13	0.23	0.60	1.70	3.20	7.40	5.60	6.80	8.80	7.20	3.80	0.95	0.85	
14	0.32	0.60	3.20	2.30	6.00	4.10	25.70	9.00	19.40	4.10	1.00	0.85	
15	0.32	0.55	2.75	2.75	4.70	3.05	7.40	16.20	11.40	3.95	1.00	0.80	
16	0.55	0.55	1.60	3.95	4.55	3.05	5.80	129.40	8.40	3.80	0.95	0.80	
17	0.65	0.65	1.40	20.30	3.95	4.25	62.50	68.50	7.80	4.10	1.00	0.80	
18	0.55	0.60	5.20	6.20	3.65	2.60	54.85	80.40	7.60	4.25	0.95	0.80	
19	0.55	9.00	4.25	4.85	6.60	4.25	24.50	75.80	7.40	4.25	0.90	0.80	
20	0.47	7.20	4.10	5.00	5.60	3.50	14.33	74.15	7.20	4.10	0.90	0.80	
21	0.47	2.15	3.95	10.06	4.85	4.40	13.00	21.20	6.80	3.05	0.90	0.75	
22	0.44	9.00	4.10	7.40	4.25	3.05	10.86	16.73	6.60	3.05	0.85	0.75	
23	0.38	6.60	3.50	4.70	10.60	2.15	9.00	15.40	6.40	2.60	0.85	0.90	
24	0.38	27.50	3.05	5.20	8.80	3.65	9.80	14.33	6.20	2.45	0.90	0.75	
25	0.38	24.20	2.60	5.40	5.60	3.05	9.80	13.26	6.00	2.60	0.90	0.80	
26	0.38	17.00	2.60	3.65	4.55	3.20	32.67	12.73	5.80	2.45	0.90	0.75	
27	2.30	4.85	2.15	3.20	4.10	2.45	8.80	11.93	5.20	2.30	0.90	1.10	
28	0.85	4.40	2.45	3.65	3.80	2.00	7.00	26.30	5.00	2.00	0.85	0.90	
29	0.70	3.05	2.15	4.40	3.35	2.00	6.60	13.53	4.85	1.80		0.90	
30	0.50	2.30	2.00	3.50	3.20	2.30	5.80	12.20	4.70	1.90		0.90	
31		3.65		4.85	3.05		5.20		4.55	1.90		0.90	
TOTAL	13.90	145.15	80.60	167.59	196.21	150.91	409.97	741.26	248.41	109.30	32.10	25.65	2321.05 CMSDAY
MEAN	0.46	4.68	2.69	5.41	6.33	5.03	13.22	24.71	8.01	3.53	1.15	0.83	6.36 CMS
MAX	2.30	27.50	6.80	20.30	14.86	16.46	62.50	129.40	19.40	4.55	2.00	1.10	129.40 CMS
MIN	0.23	0.50	0.95	1.10	3.05	2.00	2.60	4.55	4.55	1.80	0.85	0.75	0.23 CMS
RUNOFF	1.201	12.541	6.964	14.480	16.953	13.039	35.421	64.045	21.463	9.444	2.773	2.216	200.538 MCM

MOMENTARY PEAK 164.60 CMS, AT 279.12 M (MSL), AT 8.00 HOURS, ON NOV 16, 1981
RUNOFF YIELD 13.82 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 357.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

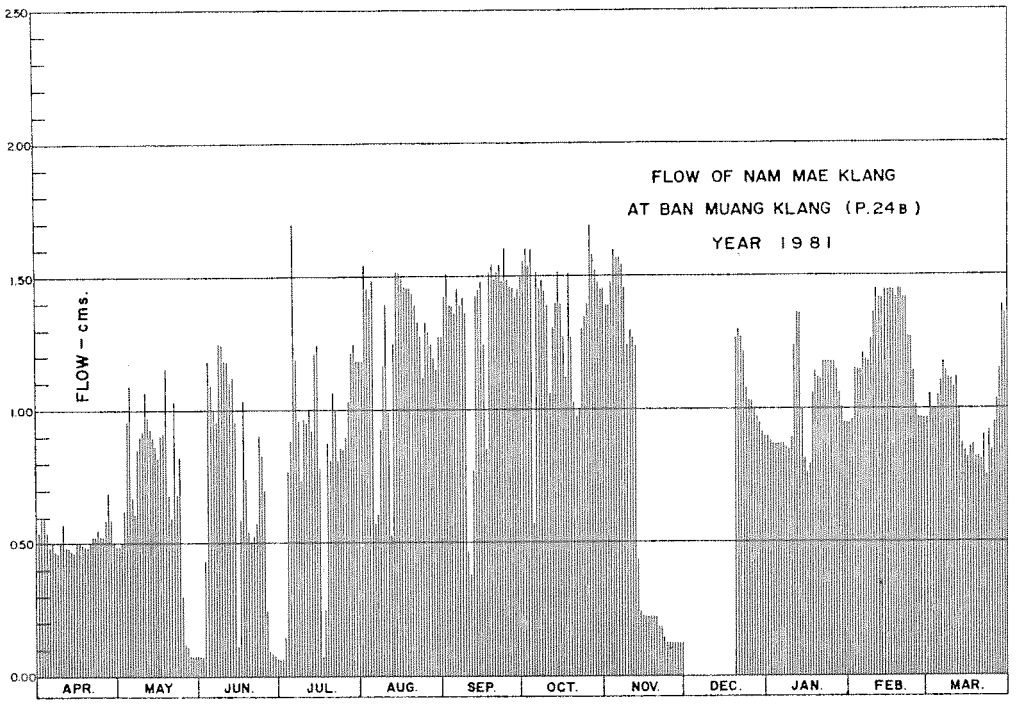
NAM MAE KLANG AT BAN MUANG KLANG, CHIANG MAI (P.24B)

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 AT	+291.600 M.(M.S.L.)
BENCH MARK	B.M.=H.D.
LOCATION	NEAR THE BARRAGE OF IRRIGATION CANAL.
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 70 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.01	291.98	291.76	291.75	292.26	292.34	292.39	292.33	*******	292.16	292.18	292.19	
2	292.03	291.99	291.76	291.75	292.38	292.37	292.40	292.33	*******	292.15	292.19	292.22	
3	292.03	292.05	291.97	291.81	292.35	292.33	292.38	292.36	*******	292.15	292.25	292.20	
4	292.01	292.18	292.26	292.10	292.34	292.33	292.40	292.40	*******	292.15	292.25	292.20	
5	291.98	292.23	292.23	292.15	292.36	292.32	292.02	292.39	*******	292.15	292.25	292.22	
6	291.99	292.06	292.20	292.43	292.02	292.35	292.37	292.39	*******	292.15	292.27	292.23	
7	291.97	292.04	292.18	292.26	292.04	292.33	292.35	292.38	*******	292.15	292.26	292.26	
8	291.97	292.14	292.28	292.00	292.22	292.34	292.36	292.35	*******	292.14	292.26	292.25	
9	292.01	292.16	292.28	292.09	292.27	292.32	292.35	292.28	*******	292.14	292.28	292.24	
10	292.02	292.17	292.26	292.19	292.33	291.97	292.33	292.30	*******	292.16	292.33	292.24	
11	291.98	292.22	292.26	292.18	292.17	291.93	292.22	292.29	*******	292.28	292.35	292.23	
12	291.98	292.18	292.23	292.20	292.00	292.11	292.30	292.28	*******	292.32	292.34	292.24	
13	291.97	292.17	292.24	292.17	292.30	292.34	292.32	291.97	*******	292.32	292.34	292.18	
14	291.97	292.16	292.14	292.27	292.37	292.35	292.37	291.86	*******	292.20	292.35	292.15	
15	291.99	292.15	291.79	292.28	292.37	292.36	292.34	291.85	*******	292.13	292.35	292.14	
16	291.99	292.13	292.09	292.15	292.36	292.28	292.28	291.85	*******	292.11	292.35	292.13	
17	291.98	292.16	292.21	291.76	292.35	292.14	292.24	291.85	*******	292.12	292.35	292.14	
18	291.98	292.17	292.07	291.85	292.35	292.37	292.37	291.85	*******	292.22	292.34	292.15	
19	291.98	292.25	292.01	292.15	292.35	292.38	292.26	291.85	*******	292.25	292.35	292.13	
20	291.99	292.07	291.99	292.12	292.34	292.36	292.21	291.85	292.29	292.24	292.35	292.13	
21	292.00	292.03	292.00	292.22	292.33	292.37	292.19	291.83	292.30	292.24	292.34	292.12	
22	292.00	292.21	292.02	292.20	292.31	292.38	292.20	291.83	292.29	292.26	292.34	292.16	
23	292.01	292.07	292.16	292.12	292.30	292.36	292.30	291.80	292.27	292.26	292.29	292.10	
24	292.00	292.13	292.13	292.14	292.24	292.40	292.32	291.80	292.22	292.26	292.29	292.17	
25	292.00	291.89	292.07	292.14	292.31	292.36	292.33	291.80	292.21	292.26	292.26	292.14	
26	292.03	291.79	291.82	292.16	292.29	292.35	292.43	291.80	292.21	292.26	292.20	292.18	
27	292.07	291.78	291.77	292.21	292.28	292.35	292.39	291.80	292.20	292.25	292.19	292.20	
28	292.01	291.76	291.77	292.27	292.26	292.34	292.37	291.80	292.19	292.22	292.19	292.25	
29	291.99	291.76	291.75	292.28	292.25	292.35	292.36	291.80	292.18	292.20		292.33	
30	291.98	291.76	291.75	292.26	292.29	292.36	292.35	291.80	292.17	292.18		292.32	
31		291.76		292.26	292.29		292.35		292.16	292.18		292.21	
MEAN	292.00	292.05	292.05	292.13	292.28	292.31	292.32	292.04	*******	292.20	292.29	292.19	
MAX	292.07	292.25	292.28	292.43	292.38	292.40	292.43	292.40	292.30	292.32	292.35	292.33	292.43
MIN	291.97	291.76	291.75	291.75	292.00	291.93	292.02	291.80	*******	292.11	292.18	292.10	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 292.47 M (MSL), AT 6.00 HOURS, ON OCT 26, 1981
ZERO GAGE AT BOTTOM ELEVATION 291.60 M (MSL), RIVER BED 291.40 M (MSL)
LEFT BANK ELEVATION 293.35 M (MSL)
RIGHT BANK ELEVATION 293.38 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.48	0.07	0.06	1.18	1.42	1.57	1.39	*******	0.90	0.95	0.97	
2	0.59	0.50	0.07	0.06	1.54	1.51	1.60	1.39	*******	0.87	0.97	1.06	
3	0.59	0.63	0.46	0.14	1.45	1.39	1.54	1.48	*******	0.87	1.15	1.00	
4	0.54	0.95	1.18	0.75	1.42	1.39	1.60	1.60	*******	0.87	1.15	1.00	
5	0.48	1.09	1.09	0.87	1.48	1.36	0.57	1.57	*******	0.87	1.15	1.06	
6	0.50	0.66	1.00	1.69	0.57	1.45	1.51	1.57	*******	0.87	1.21	1.09	
7	0.46	0.61	0.95	1.18	0.61	1.39	1.45	1.54	*******	0.87	1.18	1.18	
8	0.46	0.85	1.24	0.52	1.06	1.42	1.48	1.45	*******	0.85	1.18	1.15	
9	0.54	0.90	1.24	0.73	1.21	1.36	1.45	1.24	*******	0.85	1.24	1.12	
10	0.57	0.92	1.18	0.97	1.39	0.46	1.39	1.30	*******	0.90	1.39	1.12	
11	0.48	1.06	1.18	0.95	0.92	0.38	1.06	1.27	*******	1.24	1.45	1.09	
12	0.48	0.95	1.09	1.00	0.52	0.77	1.30	1.24	*******	1.36	1.42	1.12	
13	0.46	0.92	1.12	0.92	1.30	1.42	1.36	0.46	*******	1.36	1.42	0.95	
14	0.46	0.90	0.85	1.21	1.51	1.45	1.51	0.24	*******	1.00	1.45	0.87	
15	0.50	0.87	0.11	1.24	1.51	1.48	1.42	0.22	*******	0.82	1.45	0.85	
16	0.50	0.82	0.73	0.87	1.48	1.24	1.24	0.22	*******	0.77	1.45	0.82	
17	0.48	0.90	1.03	0.07	1.45	0.85	1.12	0.22	*******	0.80	1.45	0.85	
18	0.48	0.92	0.68	0.22	1.45	1.51	1.51	0.22	*******	1.06	1.42	0.87	
19	0.48	1.15	0.54	0.87	1.45	1.54	1.18	0.22	*******	1.15	1.45	0.82	
20	0.50	0.68	0.50	0.80	1.42	1.48	1.03	0.22	1.27	1.12	1.45	0.82	
21	0.52	0.59	0.52	1.06	1.39	1.51	0.97	0.18	1.30	1.12	1.42	0.80	
22	0.52	1.03	0.57	1.00	1.33	1.54	1.00	0.18	1.27	1.18	1.42	0.90	
23	0.54	0.68	0.90	0.80	1.30	1.48	1.30	0.12	1.21	1.18	1.27	0.75	
24	0.52	0.82	0.82	0.85	1.12	1.60	1.36	0.12	1.06	1.18	1.27	0.92	
25	0.52	0.30	0.68	0.85	1.33	1.48	1.39	0.12	1.03	1.18	1.18	0.85	
26	0.59	0.11	0.16	0.90	1.27	1.45	1.69	0.12	1.03	1.18	1.00	0.95	
27	0.68	0.10	0.08	1.03	1.24	1.45	1.57	0.12	1.00	1.15	0.97	1.00	
28	0.54	0.07	0.08	1.21	1.18	1.42	1.51	0.12	0.97	1.06	0.97	1.15	
29	0.50	0.07	0.06	1.24	1.15	1.45	1.48	0.12	0.95	1.00		1.39	
30	0.48	0.07	0.06	1.18	1.27	1.48	1.45	0.12	0.92	0.95		1.36	
31		0.07		1.18	1.27		1.45		0.90	0.95		1.03	
TOTAL	15.50	20.67	20.24	26.42	38.77	40.13	42.06	20.38	*******	31.53	35.48	30.91	******** CMSDAY
MEAN	0.52	0.67	0.67	0.85	1.25	1.34	1.36	0.68	*******	1.02	1.27	1.00	******* CMS
MAX	0.68	1.15	1.24	1.69	1.54	1.60	1.69	1.60	1.30	1.36	1.45	1.39	1.69 CMS
MIN	0.46	0.07	0.06	0.06	0.52	0.38	0.57	0.12	*******	0.77	0.95	0.75	******* CMS
RUNOFF	1.339	1.786	1.749	2.283	3.350	3.467	3.634	1.761	*******	2.724	3.065	2.671	******** MCM

MOMENTARY PEAK 1.81 CMS, AT 292.47 M (MSL), AT 6.00 HOURS, ON OCT 26, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1810.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 5.15 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC GAGE BUILDING.

ELEVATION — +0.144 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 — 1972-1975, 1980 TO DATE

RATED BY FLOAT — -

RATED BY CURRENT METER — 1972-1975, 1980 TO DATE

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 36 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY THA KRADAN WEIR BUILT BY THE LOCAL RESIDENTS.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

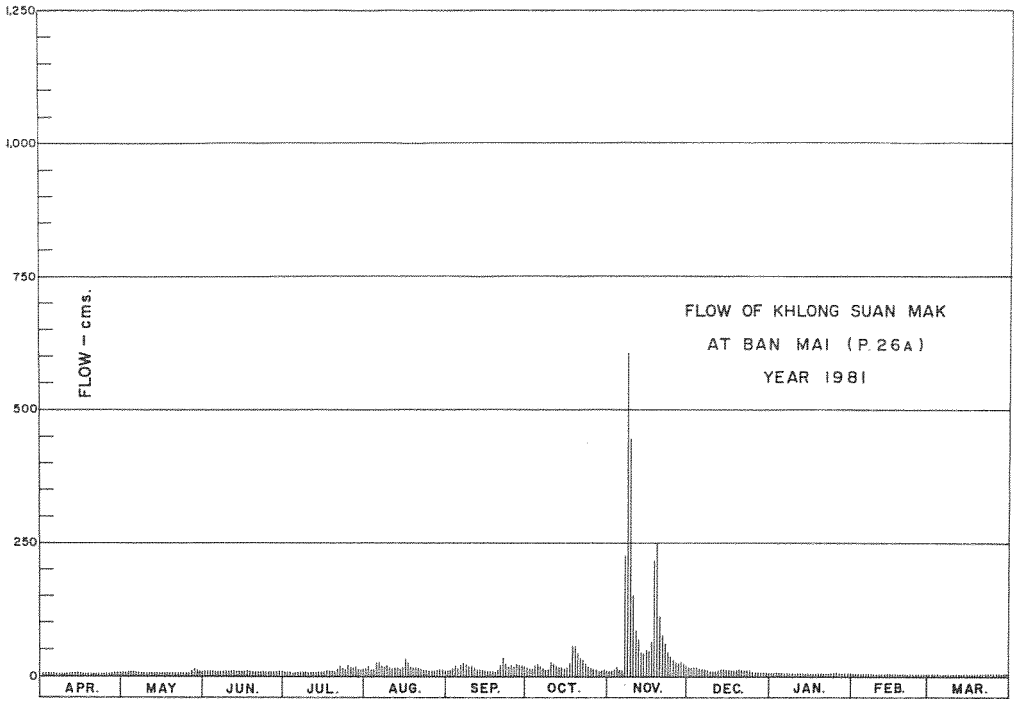
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.42	0.48	0.41	0.67	0.45	0.76	0.55	0.77	0.39	0.21	0.09	
2	0.19	0.40	0.48	0.41	0.77	0.50	0.71	0.52	0.74	0.39	0.20	0.09	
3	0.20	0.45	0.52	0.40	0.62	0.65	0.70	0.60	0.72	0.39	0.20	0.08	
4	0.20	0.42	0.47	0.37	0.58	0.79	0.82	0.79	0.71	0.39	0.20	0.08	
5	0.20	0.42	0.46	0.36	0.93	0.66	0.87	0.65	0.68	0.38	0.19	0.07	
6	0.18	0.44	0.45	0.46	0.92	0.85	0.80	0.59	0.65	0.37	0.19	0.06	
7	0.18	0.40	0.47	0.43	0.81	0.93	0.71	0.90	0.62	0.37	0.18	0.05	
8	0.18	0.37	0.50	0.56	0.79	0.84	0.67	4.56	0.60	0.36	0.18	0.03	
9	0.18	0.36	0.52	0.58	0.86	0.79	0.66	3.82	0.59	0.35	0.18	0.02	
10	0.18	0.39	0.51	0.58	0.72	0.80	0.93	2.19	0.57	0.35	0.17	0.01	
11	0.19	0.39	0.49	0.52	0.63	0.72	0.86	1.69	0.57	0.34	0.16	0.01	
12	0.21	0.39	0.46	0.50	0.66	0.60	0.72	1.43	0.57	0.33	0.15	-0.02	
13	0.24	0.38	0.46	0.47	0.68	0.54	0.73	1.26	0.55	0.33	0.15	-0.03	
14	0.32	0.35	0.46	0.44	0.65	0.50	0.77	1.17	0.54	0.33	0.15	-0.04	
15	0.41	0.33	0.49	0.44	0.73	0.48	0.75	1.27	0.53	0.32	0.15	-0.04	
16	0.38	0.30	0.46	0.46	1.00	0.46	0.69	1.27	0.52	0.31	0.15	-0.05	
17	0.37	0.30	0.46	0.51	0.79	0.43	0.81	1.47	0.51	0.31	0.15	-0.05	
18	0.36	0.30	0.45	0.61	0.71	0.44	1.41	2.68	0.51	0.30	0.15	-0.04	
19	0.33	0.34	0.45	0.53	0.77	0.43	1.38	2.86	0.51	0.29	0.14	-0.04	
20	0.32	0.35	0.45	0.48	0.71	0.47	1.21	1.92	0.49	0.29	0.14	-0.03	
21	0.30	0.36	0.44	0.46	0.65	0.75	1.08	1.57	0.48	0.29	0.13	-0.03	
22	0.31	0.36	0.43	0.79	0.53	1.08	0.97	1.36	0.47	0.27	0.13	-0.02	
23	0.30	0.36	0.42	0.65	0.61	0.81	0.86	1.22	0.47	0.27	0.12	-0.02	
24	0.28	0.39	0.41	0.60	0.57	0.78	0.77	1.12	0.46	0.25	0.12	0.01	
25	0.27	0.39	0.40	0.84	0.52	0.85	0.71	1.04	0.44	0.24	0.11	0.01	
26	0.25	0.38	0.44	0.71	0.49	0.79	0.66	0.97	0.41	0.23	0.11	-0.02	
27	0.28	0.48	0.47	0.70	0.47	0.89	0.63	0.93	0.41	0.22	0.10	-0.03	
28	0.44	0.64	0.55	0.78	0.58	0.82	0.59	0.93	0.40	0.21	0.10	-0.02	
29	0.43	0.61	0.49	0.68	0.59	0.81	0.58	0.87	0.40	0.21		-0.02	
30	0.41	0.54	0.42	0.59	0.53	0.81	0.63	0.82	0.39	0.21		0.01	
31		0.49		0.68	0.48		0.60		0.39	0.21		-0.02	
MEAN	0.28	0.40	0.47	0.55	0.68	0.69	0.81	1.43	0.54	0.31	0.15	0.00	
MAX	0.44	0.64	0.55	0.84	1.00	1.08	1.41	4.56	0.77	0.39	0.21	0.09	4.56
MIN	0.18	0.30	0.40	0.36	0.47	0.43	0.58	0.52	0.39	0.21	0.10	-0.05	-0.05

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.06 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — -0.48 M (A.D)

LEFT BANK ELEVATION — 5.11 M (A.D)

RIGHT BANK ELEVATION — 5.84 M (A.D), DRAINAGE AREA — 969 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	5.40	6.60	5.20	11.45	6.00	14.60	8.00	14.95	4.80	1.20	0.46	
2	0.95	5.00	6.60	5.20	14.95	7.00	12.85	7.40	13.90	4.80	1.00	0.46	
3	1.00	6.00	7.40	5.00	9.70	10.75	12.50	9.00	13.20	4.80	1.00	0.42	
4	1.00	5.40	6.40	4.40	8.60	15.65	17.00	15.65	12.85	4.80	1.00	0.42	
5	1.00	5.40	6.20	4.20	22.65	11.10	19.50	10.75	11.80	4.60	0.95	0.38	
6	0.90	5.80	6.00	6.20	22.10	18.50	16.00	8.80	10.75	4.40	0.95	0.34	
7	0.90	5.00	6.40	5.60	16.50	22.65	12.85	21.00	9.70	4.40	0.90	0.30	
8	0.90	4.40	7.00	8.20	15.65	18.00	11.45	604.80	9.00	4.20	0.90	0.22	
9	0.90	4.20	7.40	8.60	19.00	15.65	11.10	436.40	8.80	4.00	0.90	0.18	
10	0.90	4.80	7.20	8.60	13.20	16.00	22.65	141.70	8.40	4.00	0.85	0.14	
11	0.95	4.80	6.80	7.40	10.05	13.20	19.00	83.00	8.40	3.80	0.80	0.14	
12	1.20	4.80	6.20	7.00	11.10	9.00	13.20	57.70	8.40	3.60	0.75	0.08	
13	1.80	4.60	6.20	6.40	11.80	7.80	13.55	43.80	8.00	3.60	0.75	0.07	
14	3.40	4.00	6.20	5.80	10.75	7.00	14.95	37.05	7.80	3.60	0.75	0.06	
15	5.20	3.60	6.80	5.80	13.55	6.60	14.25	44.60	7.60	3.40	0.75	0.06	
16	4.60	3.00	6.20	6.20	26.50	6.20	12.15	44.60	7.40	3.20	0.75	0.05	
17	4.40	3.00	6.20	7.20	15.65	5.60	16.50	61.30	7.20	3.20	0.75	0.05	
18	4.20	3.00	6.00	9.35	12.85	5.80	55.90	215.20	7.20	3.00	0.75	0.06	
19	3.60	3.80	6.00	7.60	14.95	5.60	53.40	245.80	7.20	2.80	0.70	0.06	
20	3.40	4.00	6.00	6.60	12.85	6.40	39.80	108.40	6.80	2.80	0.70	0.07	
21	3.00	4.20	5.80	6.20	10.75	14.25	31.30	71.00	6.60	2.80	0.65	0.07	
22	3.20	4.20	5.60	15.65	10.05	31.30	24.85	51.80	6.40	2.40	0.65	0.08	
23	3.00	4.20	5.40	10.75	9.35	16.50	19.00	40.60	6.40	2.40	0.60	0.08	
24	2.60	4.80	5.20	9.00	8.40	15.30	14.95	33.80	6.20	2.00	0.60	0.14	
25	2.40	4.80	5.00	18.00	7.40	18.50	12.85	28.90	5.80	1.80	0.55	0.14	
26	2.40	4.60	5.80	12.85	6.80	15.65	11.10	24.85	5.20	1.60	0.55	0.08	
27	2.60	6.60	6.40	12.50	6.40	20.50	10.05	22.65	5.20	1.40	0.50	0.07	
28	5.80	10.40	8.00	15.30	8.60	17.00	8.80	22.65	5.00	1.20	0.50	0.08	
29	5.60	9.35	6.80	11.80	8.80	16.50	8.60	19.50	5.00	1.20		0.08	
30	5.20	7.80	5.40	8.80	7.60	16.50	10.05	17.00	4.80	1.20		0.14	
31		6.80		11.80	6.60		9.00		4.80	1.20		0.08	
TOTAL	77.50	157.75	189.20	263.20	384.60	396.50	563.75	2537.70	250.75	97.00	21.70	5.06	4944.70 CMSDAY
MEAN	2.58	5.09	6.31	8.49	12.41	13.22	18.19	84.59	8.09	3.13	0.77	0.16	13.55 CMS
MAX	5.80	10.40	8.00	18.00	26.50	31.30	55.90	604.80	14.95	4.80	1.20	0.46	604.80 CMS
MIN	0.90	3.00	5.00	4.20	6.40	5.60	8.60	7.40	4.80	1.20	0.50	0.05	0.05 CMS
RUNOFF	6.696	13.630	16.347	22.740	33.229	34.258	48.708	219.257	21.665	8.381	1.875	0.437	427.222 MCM

MOMENTARY PEAK ******** CMS, AT 6.06 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 13.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ******** LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 BY SOME SILTING, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

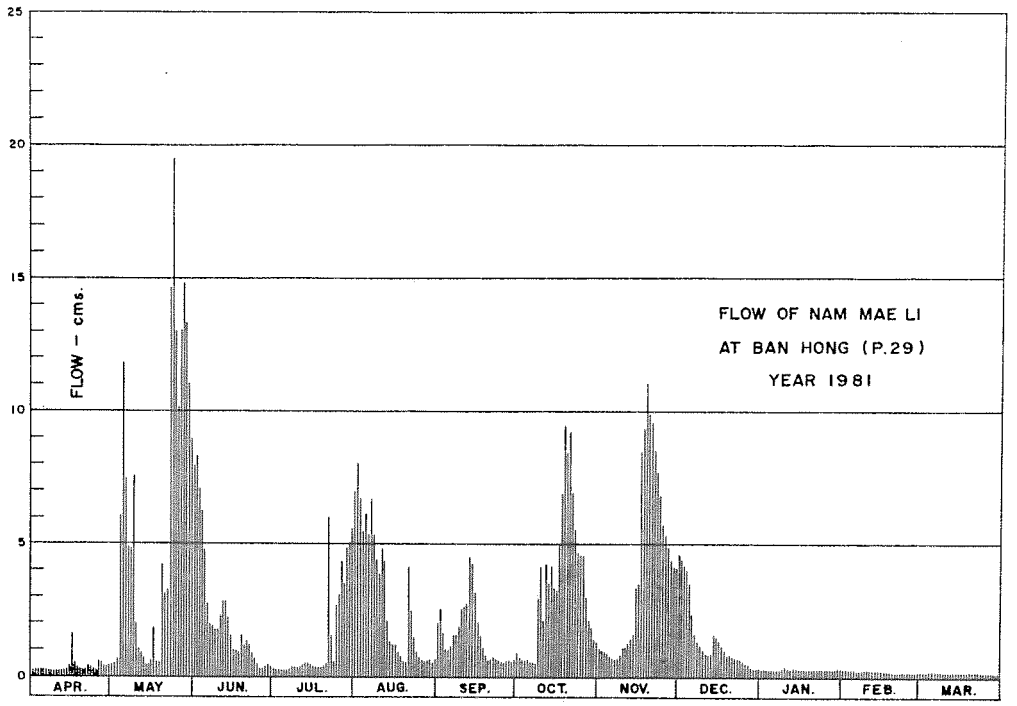
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.27	1.05	0.22	0.97	0.49	0.36	0.39	0.79	0.20	0.20	0.18	
2	0.21	0.28	1.08	0.21	1.05	0.57	0.33	0.38	0.77	0.22	0.20	0.17	
3	0.20	0.32	0.97	0.21	0.95	0.48	0.32	0.37	0.75	0.21	0.20	0.17	
4	0.20	0.93	0.91	0.21	0.86	0.40	0.31	0.35	0.72	0.21	0.20	0.17	
5	0.19	1.30	0.80	0.21	0.91	0.38	0.32	0.34	0.67	0.22	0.20	0.18	
6	0.19	1.01	0.60	0.21	0.85	0.41	0.31	0.32	0.56	0.22	0.19	0.18	
7	0.19	0.81	0.52	0.23	0.96	0.47	0.30	0.32	0.47	0.22	0.20	0.19	
8	0.18	0.81	0.51	0.25	0.85	0.47	0.29	0.33	0.42	0.22	0.21	0.20	
9	0.18	1.02	0.49	0.25	0.77	0.51	0.53	0.34	0.41	0.23	0.21	0.19	
10	0.18	0.54	0.50	0.25	0.71	0.58	0.74	0.40	0.37	0.24	0.21	0.18	
11	0.18	0.40	0.55	0.26	0.81	0.59	0.54	0.40	0.35	0.23	0.22	0.18	
12	0.19	0.36	0.61	0.27	0.76	0.60	0.75	0.42	0.35	0.23	0.22	0.17	
13	0.20	0.33	0.61	0.30	0.53	0.78	0.66	0.45	0.35	0.24	0.20	0.17	
14	0.21	0.26	0.54	0.29	0.43	0.75	0.74	0.47	0.47	0.22	0.20	0.18	
15	0.21	0.27	0.45	0.28	0.42	0.65	0.66	0.46	0.46	0.22	0.20	0.18	
16	0.48	0.32	0.38	0.26	0.42	0.56	0.65	0.68	0.44	0.23	0.19	0.19	
17	0.28	0.50	0.37	0.25	0.38	0.49	0.82	1.09	0.41	0.23	0.19	0.18	
18	0.24	0.30	0.36	0.24	0.34	0.39	1.03	1.14	0.37	0.22	0.19	0.19	
19	0.22	0.29	0.46	0.25	0.31	0.35	1.15	1.25	0.34	0.21	0.19	0.19	
20	0.23	0.75	0.41	0.26	0.28	0.32	1.09	1.18	0.35	0.21	0.18	0.18	
21	0.22	0.64	0.43	0.27	0.74	0.33	1.14	1.16	0.34	0.22	0.18	0.18	
22	0.25	0.65	0.41	0.90	0.59	0.34	0.98	1.09	0.33	0.23	0.18	0.18	
23	0.26	1.47	0.36	0.47	0.45	0.33	0.88	1.03	0.32	0.21	0.18	0.18	
24	0.23	1.72	0.32	0.30	0.37	0.31	0.79	0.96	0.32	0.21	0.18	0.19	
25	0.20	1.37	0.27	0.60	0.34	0.30	0.78	0.93	0.30	0.20	0.19	0.19	
26	0.31	1.32	0.21	0.63	0.33	0.30	0.78	0.93	0.29	0.20	0.18	0.19	
27	0.31	1.37	0.21	0.76	0.31	0.31	0.69	0.89	0.28	0.21	0.18	0.18	
28	0.26	1.48	0.24	0.68	0.31	0.32	0.54	0.85	0.24	0.20	0.18	0.18	
29	0.25	1.39	0.29	0.81	0.32	0.30	0.51	0.83	0.22	0.20		0.18	
30	0.26	1.25	0.26	0.83	0.30	0.32	0.44	0.83	0.20	0.20		0.18	
31		1.12		0.89	0.31		0.44		0.21	0.20		0.18	
MEAN	0.23	0.80	0.51	0.39	0.58	0.45	0.64	0.69	0.42	0.22	0.19	0.18	
MAX	0.48	1.72	1.08	0.90	1.05	0.78	1.15	1.25	0.79	0.24	0.22	0.20	1.72
MIN	0.18	0.26	0.21	0.21	0.28	0.30	0.29	0.32	0.20	0.20	0.18	0.17	0.17

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.76 M (A.D), AT 12.00 HOURS, ON MAY 23, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED +1.16 M (A.D)

LEFT BANK ELEVATION — 5.34 M (A.D)

RIGHT BANK ELEVATION — 5.35 M (A.D), DRAINAGE AREA 1970 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.41	7.95	0.26	6.91	1.73	0.86	1.04	4.60	0.20	0.20	0.16	
2	0.23	0.44	8.34	0.23	7.95	2.43	0.68	0.98	4.40	0.26	0.20	0.14	
3	0.20	0.62	6.91	0.23	6.65	1.66	0.62	0.92	4.20	0.23	0.20	0.14	
4	0.20	6.39	6.13	0.23	5.48	1.10	0.56	0.80	3.90	0.23	0.20	0.14	
5	0.18	11.80	4.70	0.23	6.13	0.98	0.62	0.74	3.40	0.26	0.20	0.16	
6	0.18	7.43	2.70	0.23	5.35	1.17	0.86	0.62	2.24	0.26	0.18	0.16	
7	0.18	4.83	1.98	0.29	6.78	1.59	0.50	0.62	1.59	0.26	0.20	0.18	
8	0.16	4.83	1.89	0.35	5.35	1.59	0.47	0.68	1.24	0.26	0.23	0.20	
9	0.16	7.56	1.73	0.35	4.40	1.89	2.07	0.74	1.17	0.29	0.23	0.18	
10	0.16	2.16	1.80	0.35	3.80	2.52	4.10	1.10	0.92	0.32	0.23	0.16	
11	0.16	1.10	2.25	0.38	4.83	2.61	2.16	1.10	0.80	0.29	0.26	0.16	
12	0.18	0.86	2.80	0.41	4.30	2.70	4.20	1.24	0.80	0.29	0.26	0.14	
13	0.20	0.68	2.80	0.50	2.07	4.50	3.30	1.45	0.80	0.32	0.20	0.14	
14	0.23	0.38	2.16	0.47	1.31	4.20	4.10	1.59	1.59	0.26	0.20	0.16	
15	0.23	0.41	1.45	0.44	1.24	3.20	3.30	3.30	1.52	0.26	0.20	0.16	
16	1.66	0.62	0.98	0.38	1.24	2.34	3.20	3.50	1.38	0.29	0.18	0.18	
17	0.44	1.80	0.92	0.35	0.98	1.73	4.96	8.47	1.17	0.29	0.18	0.16	
18	0.32	0.50	0.86	0.32	0.74	1.04	7.69	9.24	0.92	0.26	0.18	0.18	
19	0.26	0.47	1.52	0.35	0.56	0.80	9.40	11.00	0.74	0.23	0.18	0.18	
20	0.29	4.20	1.17	0.38	0.44	0.62	8.47	9.88	0.80	0.23	0.16	0.16	
21	0.26	3.10	1.31	0.41	4.10	0.68	9.24	9.56	0.74	0.26	0.16	0.16	
22	0.35	3.20	1.17	6.00	2.61	0.74	7.04	8.47	0.68	0.29	0.16	0.16	
23	0.38	14.69	0.86	1.59	1.45	0.68	5.74	7.69	0.62	0.23	0.16	0.16	
24	0.29	19.40	0.62	0.50	0.92	0.56	4.60	6.78	0.62	0.23	0.16	0.18	
25	0.20	12.99	0.41	2.70	0.74	0.50	4.50	6.39	0.50	0.20	0.18	0.18	
26	0.56	12.14	0.23	3.00	0.68	0.50	4.50	6.39	0.47	0.20	0.16	0.18	
27	0.56	12.99	0.23	4.30	0.56	0.56	3.60	5.87	0.44	0.23	0.16	0.16	
28	0.38	14.86	0.32	3.50	0.56	0.62	2.16	5.35	0.32	0.20	0.16	0.16	
29	0.35	13.33	0.47	4.83	0.62	0.50	1.89	5.09	0.26	0.20		0.16	
30	0.38	11.00	0.38	5.09	0.50	0.62	1.38	5.09	0.20	0.20		0.16	
31		8.92		5.87	0.56		1.38		0.23	0.20		0.16	
TOTAL	9.51	184.11	67.04	44.52	89.81	46.36	107.85	125.69	43.36	7.73	5.37	5.06	736.41 CMSDAY
MEAN	0.32	5.94	2.23	1.44	2.90	1.55	3.48	4.19	1.40	0.25	0.19	0.16	2.02 CMS
MAX	1.66	19.40	8.34	6.00	7.95	4.50	9.40	11.00	4.60	0.32	0.26	0.20	19.40 CMS
MIN	0.16	0.38	0.23	0.23	0.44	0.50	0.47	0.62	0.20	0.20	0.16	0.14	0.14 CMS
RUNOFF	0.822	15.907	5.792	3.847	7.760	4.005	9.318	10.860	3.746	0.668	0.464	0.437	63.626 MCM

MOMENTARY PEAK 20.20 CMS, AT 1.76 M (A.D), AT 12.00 HOURS, ON MAY 23, 1981

RUNOFF YIELD 1.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 10.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

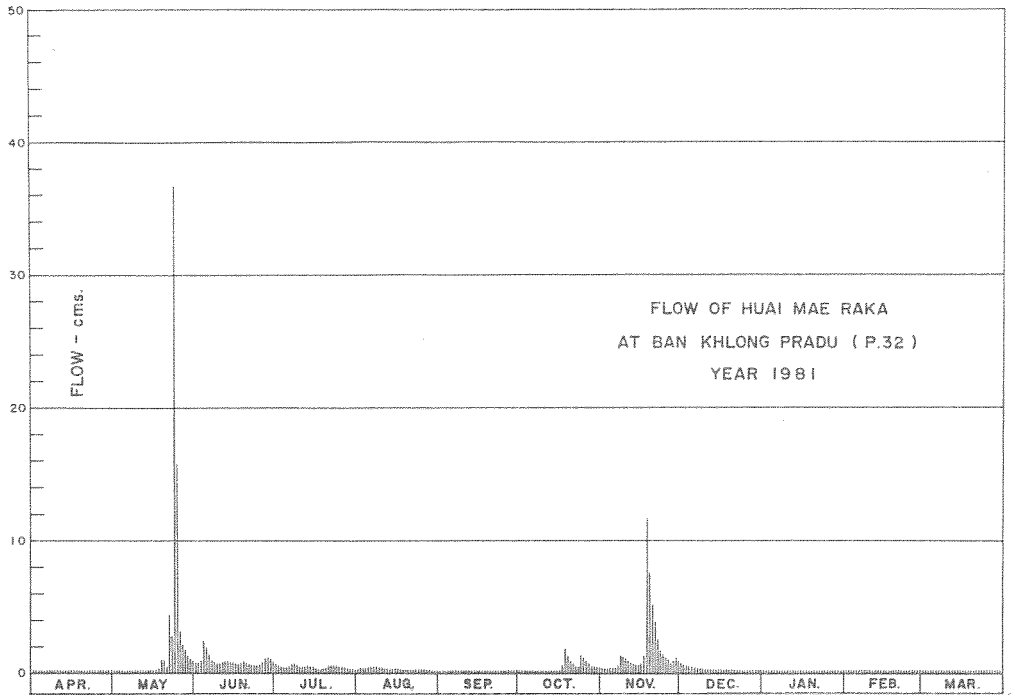
HUAI MAE RAKA AT BAN KHLONG PRADU, TAK (P.32)

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 AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-M.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 WITH VARIABLE WATER SURFACE SLOPE AND SOME SCOURING NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1981

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.15	-0.15	0.16	0.13	0.06	-0.15	-0.15	0.06	0.13	-0.15	-0.15	-0.15	
2	-0.15	-0.15	0.15	0.11	0.07	-0.15	-0.15	0.05	0.11	-0.15	-0.15	-0.15	
3	-0.15	-0.15	0.17	0.09	0.06	-0.15	-0.15	0.05	0.09	-0.15	-0.15	-0.15	
4	-0.15	-0.15	0.39	0.09	0.05	-0.15	-0.15	0.08	0.07	-0.15	-0.15	-0.15	
5	-0.15	-0.15	0.34	0.09	0.06	-0.15	-0.15	0.08	0.04	-0.15	-0.15	-0.15	
6	-0.15	-0.15	0.24	0.11	0.07	-0.15	-0.15	0.06	0.02	-0.15	-0.15	-0.15	
7	-0.15	-0.15	0.19	0.15	0.08	-0.15	-0.15	0.07	0.01	-0.15	-0.15	-0.15	
8	-0.15	-0.15	0.16	0.14	0.09	-0.15	-0.15	0.26	0.02	-0.15	-0.15	-0.15	
9	-0.15	-0.15	0.15	0.12	0.07	-0.15	-0.15	0.25	0.02	-0.15	-0.15	-0.15	
10	-0.15	-0.15	0.15	0.08	0.05	-0.15	-0.15	0.20	0.02	-0.15	-0.15	-0.15	
11	-0.15	-0.15	0.17	0.08	0.05	-0.15	-0.15	0.18	0.01	-0.15	-0.15	-0.15	
12	-0.15	-0.15	0.18	0.07	0.05	-0.15	-0.15	0.13	0.01	-0.15	-0.15	-0.15	
13	-0.15	-0.15	0.17	0.07	0.05	-0.15	-0.15	0.12	0.01	-0.15	-0.15	-0.15	
14	-0.15	-0.15	0.16	0.07	0.05	-0.15	-0.15	0.12	0.01	-0.15	-0.15	-0.15	
15	-0.15	-0.15	0.15	0.07	0.05	-0.15	-0.15	0.12	0.01	-0.15	-0.15	-0.15	
16	-0.15	-0.15	0.15	0.05	0.04	-0.15	-0.15	0.12	0.01	-0.15	-0.15	-0.15	
17	-0.15	-0.15	0.15	0.04	0.03	-0.15	-0.05	0.22	0.01	-0.15	-0.15	-0.15	
18	-0.15	-0.15	0.16	0.03	0.02	-0.15	0.33	1.10	-0.15	-0.15	-0.15	-0.15	
19	-0.15	0.22	0.17	0.02	0.02	-0.15	0.25	0.93	-0.15	-0.15	-0.15	-0.15	
20	-0.15	0.21	0.14	0.07	0.02	-0.15	0.16	0.68	-0.15	-0.15	-0.15	-0.15	
21	-0.15	0.10	0.13	0.11	0.01	-0.15	0.12	0.51	-0.15	-0.15	-0.15	-0.15	
22	-0.15	0.58	0.13	0.09	0.01	-0.15	0.08	0.39	-0.15	-0.15	-0.15	-0.15	
23	-0.15	0.34	0.13	0.09	0.01	-0.15	0.08	0.32	-0.15	-0.15	-0.15	-0.15	
24	-0.15	2.17	0.12	0.08	0.01	-0.15	0.27	0.25	-0.15	-0.15	-0.15	-0.15	
25	-0.15	0.81	0.12	0.08	0.00	-0.15	0.20	0.21	-0.15	-0.15	-0.15	-0.15	
26	-0.15	0.45	0.20	0.08	0.00	-0.15	0.14	0.18	-0.15	-0.15	-0.15	-0.15	
27	-0.15	0.36	0.22	0.08	0.00	-0.15	0.10	0.14	-0.15	-0.15	-0.15	-0.15	
28	-0.15	0.30	0.23	0.06	0.00	-0.15	0.09	0.19	-0.15	-0.15	-0.15	-0.15	
29	-0.15	0.24	0.20	0.06	0.00	-0.15	0.09	0.23	-0.15	-0.15		-0.15	
30	-0.15	0.20	0.14	0.06	0.00	-0.15	0.08	0.16	-0.15	-0.15		-0.15	
31		0.17		0.06	0.00		0.07		-0.15	-0.15		-0.15	
MEAN	-0.15	0.11	0.18	0.08	0.03	-0.15	-0.01	0.25	-0.05	-0.15	-0.15	-0.15	
MAX	-0.15	2.17	0.39	0.15	0.09	-0.15	0.33	1.10	0.13	-0.15	-0.15	-0.15	2.17
MIN	-0.15	-0.15	0.12	0.02	0.00	-0.15	-0.15	0.05	-0.15	-0.15	-0.15	-0.15	-0.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.68 M (A.D.), AT 6.00 HOURS, ON MAY 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED -0.18 M (A.D.)
LEFT BANK ELEVATION 3.10 M (A.D.)
RIGHT BANK ELEVATION 3.31 M (A.D.), DRAINAGE AREA 342 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.80	0.65	0.38	0.00	0.00	0.38	0.65	0.00	0.00	0.00	
2	0.00	0.00	0.75	0.55	0.41	0.00	0.00	0.35	0.55	0.00	0.00	0.00	
3	0.00	0.00	0.85	0.47	0.38	0.00	0.00	0.35	0.47	0.00	0.00	0.00	
4	0.00	0.00	2.44	0.47	0.35	0.00	0.00	0.44	0.41	0.00	0.00	0.00	
5	0.00	0.00	1.92	0.47	0.38	0.00	0.00	0.44	0.32	0.00	0.00	0.00	
6	0.00	0.00	1.20	0.55	0.41	0.00	0.00	0.38	0.26	0.00	0.00	0.00	
7	0.00	0.00	0.95	0.75	0.44	0.00	0.00	0.41	0.23	0.00	0.00	0.00	
8	0.00	0.00	0.80	0.70	0.47	0.00	0.00	1.30	0.26	0.00	0.00	0.00	
9	0.00	0.00	0.75	0.60	0.41	0.00	0.00	1.25	0.26	0.00	0.00	0.00	
10	0.00	0.00	0.75	0.44	0.35	0.00	0.00	1.00	0.26	0.00	0.00	0.00	
11	0.00	0.00	0.85	0.44	0.35	0.00	0.00	0.90	0.23	0.00	0.00	0.00	
12	0.00	0.00	0.90	0.41	0.35	0.00	0.00	0.65	0.23	0.00	0.00	0.00	
13	0.00	0.00	0.85	0.41	0.35	0.00	0.00	0.60	0.23	0.00	0.00	0.00	
14	0.00	0.00	0.80	0.41	0.35	0.00	0.00	0.60	0.23	0.00	0.00	0.00	
15	0.00	0.00	0.75	0.41	0.35	0.00	0.00	0.60	0.23	0.00	0.00	0.00	
16	0.00	0.00	0.75	0.35	0.32	0.00	0.00	0.60	0.23	0.00	0.00	0.00	
17	0.00	0.00	0.75	0.32	0.29	0.00	0.10	1.10	0.23	0.00	0.00	0.00	
18	0.00	0.00	0.80	0.29	0.26	0.00	1.82	11.50	0.00	0.00	0.00	0.00	
19	0.00	1.10	0.85	0.26	0.26	0.00	1.25	8.95	0.00	0.00	0.00	0.00	
20	0.00	1.05	0.70	0.41	0.26	0.00	0.80	5.49	0.00	0.00	0.00	0.00	
21	0.00	0.50	0.65	0.55	0.23	0.00	0.60	3.71	0.00	0.00	0.00	0.00	
22	0.00	4.44	0.65	0.47	0.23	0.00	0.44	2.44	0.00	0.00	0.00	0.00	
23	0.00	1.92	0.65	0.47	0.23	0.00	0.44	1.71	0.00	0.00	0.00	0.00	
24	0.00	36.60	0.60	0.44	0.23	0.00	1.35	1.25	0.00	0.00	0.00	0.00	
25	0.00	7.15	0.60	0.44	0.20	0.00	1.00	1.05	0.00	0.00	0.00	0.00	
26	0.00	3.07	1.00	0.44	0.20	0.00	0.70	0.90	0.00	0.00	0.00	0.00	
27	0.00	2.13	1.10	0.44	0.20	0.00	0.50	0.70	0.00	0.00	0.00	0.00	
28	0.00	1.50	1.15	0.38	0.20	0.00	0.47	0.95	0.00	0.00	0.00	0.00	
29	0.00	1.20	1.00	0.38	0.20	0.00	0.47	1.15	0.00	0.00		0.00	
30	0.00	1.00	0.70	0.38	0.20	0.00	0.44	0.80	0.00	0.00		0.00	
31		0.85		0.38	0.20		0.41		0.00	0.00		0.00	
TOTAL	0.00	62.51	27.31	14.13	9.44	0.00	10.79	51.95	5.28	0.00	0.00	0.00	181.41 CMSDAY
MEAN	0.00	2.02	0.91	0.46	0.30	0.00	0.35	1.73	0.17	0.00	0.00	0.00	0.50 CMS
MAX	0.00	36.60	2.44	0.75	0.47	0.00	1.82	11.50	0.65	0.00	0.00	0.00	36.60 CMS
MIN	0.00	0.00	0.60	0.26	0.20	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	5.401	2.360	1.221	0.816	0.000	0.932	4.488	0.456	0.000	0.000	0.000	15.674 MCM

MOMENTARY PEAK 53.30 CMS, AT 2.68 M (A.D), AT 6.00 HOURS, ON MAY 24, 1981

RUNOFF YIELD 1.45 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

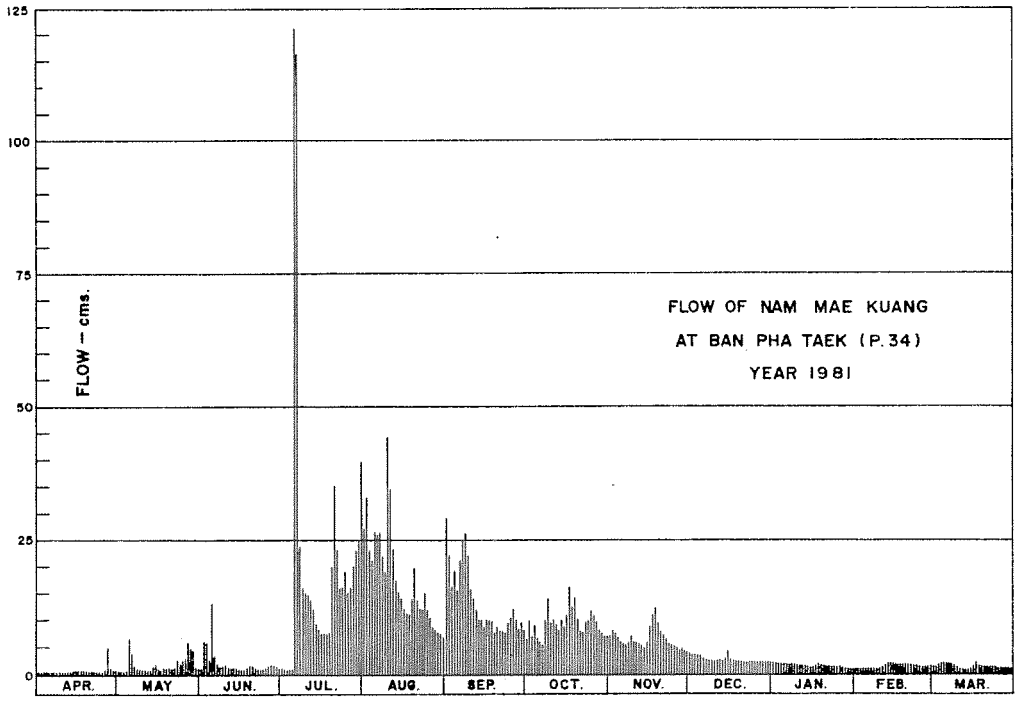
NAM MAE KUANG AT BAN PHA TAEK, CHIANG MAI (P.34)

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 AT	+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	FAIRLY STABLE, NO SHIFTING ADJUSTMENT BUT PERIODIC CURVES ARE USED FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +342.36 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 191 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	339.92	339.96	340.03	340.07	340.82	340.86	340.31	340.32	340.23	340.16	340.10	340.12	
2	339.93	339.95	340.30	340.04	340.94	340.71	340.41	340.36	340.22	340.15	340.10	340.12	
3	339.93	339.93	340.30	340.01	340.73	340.54	340.31	340.34	340.22	340.15	340.10	340.13	
4	339.95	339.97	340.17	340.03	340.67	340.66	340.38	340.32	340.21	340.15	340.10	340.15	
5	339.94	340.32	340.48	340.04	340.81	340.53	340.32	340.30	340.21	340.15	340.10	340.15	
6	339.92	340.22	340.21	342.11	340.79	340.69	340.29	340.29	340.19	340.15	340.10	340.15	
7	339.91	340.12	340.14	342.04	340.80	340.78	340.27	340.28	340.18	340.14	340.10	340.14	
8	339.91	340.07	340.11	340.76	340.72	340.81	340.40	340.29	340.18	340.14	340.10	340.14	
9	339.94	340.04	340.12	340.56	340.63	340.69	340.51	340.32	340.17	340.14	340.10	340.13	
10	339.91	340.02	340.12	340.52	341.09	340.56	340.39	340.30	340.17	340.13	340.10	340.10	
11	339.89	340.01	340.12	340.52	341.58	340.51	340.40	340.30	340.17	340.13	340.10	340.08	
12	339.88	340.00	340.08	340.50	340.74	340.45	340.37	340.29	340.18	340.12	340.13	340.08	
13	339.86	339.99	340.05	340.44	340.59	340.41	340.34	340.27	340.17	340.12	340.15	340.08	
14	339.93	340.11	340.06	340.38	340.53	340.40	340.41	340.26	340.18	340.11	340.15	340.08	
15	339.99	340.13	340.04	340.36	340.49	340.37	340.37	340.30	340.24	340.11	340.15	340.08	
16	339.99	340.03	340.02	340.33	340.44	340.40	340.32	340.35	340.19	340.11	340.14	340.12	
17	340.00	340.00	340.01	340.34	340.42	340.40	340.54	340.42	340.17	340.13	340.14	340.15	
18	340.01	340.07	340.10	340.33	340.42	340.40	340.45	340.46	340.17	340.14	340.14	340.12	
19	339.99	340.07	340.12	340.34	340.50	340.35	340.50	340.39	340.17	340.13	340.14	340.12	
20	339.98	340.12	340.12	340.65	340.65	340.37	340.39	340.35	340.16	340.13	340.14	340.11	
21	339.95	340.07	340.07	340.96	340.49	340.35	340.35	340.33	340.16	340.12	340.13	340.11	
22	339.94	340.06	340.05	340.73	340.44	340.35	340.34	340.32	340.16	340.12	340.13	340.11	
23	339.92	340.17	340.02	340.55	340.45	340.34	340.39	340.29	340.16	340.12	340.13	340.11	
24	339.91	340.13	340.03	340.55	340.53	340.39	340.40	340.28	340.16	340.12	340.13	340.11	
25	339.88	340.17	340.07	340.62	340.45	340.40	340.44	340.27	340.16	340.12	340.12	340.10	
26	340.00	340.19	340.12	340.52	340.40	340.44	340.42	340.26	340.16	340.12	340.12	340.10	
27	340.26	340.29	340.13	340.55	340.36	340.40	340.39	340.25	340.16	340.11	340.12	340.10	
28	340.07	340.25	340.13	340.64	340.35	340.36	340.36	340.26	340.16	340.10	340.12	340.10	
29	340.00	340.17	340.12	340.73	340.34	340.39	340.34	340.25	340.16	340.10		340.10	
30	339.98	340.10	340.09	340.78	340.33	340.35	340.33	340.24	340.16	340.10		340.09	
31		340.06		341.04	340.32		340.32		340.16	340.10		340.09	
MEAN	339.96	340.09	340.12	340.58	340.61	340.49	340.38	340.31	340.18	340.13	340.12	340.11	
MAX	340.26	340.32	340.48	342.11	341.58	340.86	340.54	340.46	340.24	340.16	340.15	340.15	342.11
MIN	339.86	339.93	340.01	340.01	340.32	340.34	340.27	340.24	340.16	340.10	340.10	340.08	339.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 343.19 M (MSL), AT 22.00 HOURS, ON JUL 6, 1981
ZERO GAGE AT BOTTOM ELEVATION 339.35 M (MSL), RIVER BED 339.14 M (MSL)
LEFT BANK ELEVATION 342.36 M (MSL)
RIGHT BANK ELEVATION 345.70 M (MSL), DRAINAGE AREA 566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.30	0.65	0.85	27.00	29.00	6.40	6.80	3.90	2.20	1.00	1.40	
2	0.15	0.25	6.00	0.70	33.40	22.40	10.40	8.40	3.60	2.00	1.00	1.40	
3	0.15	0.15	6.00	0.55	23.20	15.60	6.40	7.60	3.60	2.00	1.00	1.60	
4	0.25	0.35	2.40	0.65	20.80	20.40	9.20	6.80	3.30	2.00	1.00	2.00	
5	0.20	6.80	13.20	0.70	26.50	15.20	6.80	6.00	3.30	2.00	1.00	2.00	
6	0.10	3.60	3.30	120.99	25.60	21.60	5.70	5.70	2.80	2.00	1.00	2.00	
7	0.05	1.40	1.80	113.99	26.00	25.20	5.10	5.40	2.60	1.80	1.00	1.80	
8	0.05	0.85	1.20	24.40	22.80	26.50	10.00	5.70	2.60	1.80	1.00	1.80	
9	0.20	0.70	1.40	16.40	19.20	21.60	14.40	6.80	2.40	1.80	1.00	1.60	
10	0.05	0.60	1.40	14.80	42.40	16.40	9.60	6.00	2.40	1.60	1.00	1.00	
11	0.00	0.55	1.40	14.00	76.40	14.40	10.00	6.00	2.40	1.60	1.00	0.90	
12	0.00	0.50	0.90	14.00	23.60	12.00	8.80	5.70	2.60	1.40	1.60	0.90	
13	0.00	0.45	0.75	11.60	17.60	10.40	7.60	5.10	2.40	1.40	2.00	0.90	
14	0.15	1.20	0.80	9.20	15.20	10.00	10.40	4.80	2.60	1.20	2.00	0.90	
15	0.45	1.60	0.70	8.40	13.60	8.80	8.80	6.00	4.20	1.20	2.00	0.90	
16	0.45	0.65	0.60	7.20	11.60	10.00	6.80	8.00	2.80	1.20	1.80	1.40	
17	0.50	0.50	0.55	7.60	10.80	10.00	15.60	10.80	2.40	1.60	1.80	2.00	
18	0.55	0.85	1.00	7.20	10.80	10.00	12.00	12.40	2.40	1.80	1.80	1.40	
19	0.45	0.85	1.40	7.60	14.00	8.00	14.00	9.60	2.40	1.60	1.80	1.40	
20	0.40	1.40	1.40	20.00	20.00	8.80	9.60	8.00	2.20	1.60	1.80	1.20	
21	0.25	0.85	0.85	34.60	13.60	8.00	8.00	7.20	2.20	1.40	1.60	1.20	
22	0.20	0.80	0.75	23.20	11.60	8.00	7.60	6.80	2.20	1.40	1.60	1.20	
23	0.10	2.40	0.60	16.00	12.00	7.60	9.60	5.70	2.20	1.40	1.60	1.20	
24	0.05	1.60	0.65	16.00	15.20	9.60	10.00	5.40	2.20	1.40	1.60	1.20	
25	0.00	2.40	0.85	18.80	12.00	10.00	11.60	5.10	2.20	1.40	1.40	1.00	
26	0.50	2.80	1.40	14.80	10.00	11.60	10.80	4.80	2.20	1.40	1.40	1.00	
27	4.80	5.70	1.60	16.00	8.40	10.00	9.60	4.50	2.20	1.20	1.40	1.00	
28	0.85	4.50	1.60	19.60	8.00	8.40	8.40	4.80	2.20	1.00	1.40	1.00	
29	0.50	2.40	1.40	23.20	7.60	9.60	7.60	4.50	2.20	1.00		1.00	
30	0.40	1.00	0.95	25.20	7.20	8.00	7.20	4.20	2.20	1.00		0.95	
31		0.80		39.40	6.80		6.80		2.20	1.00		0.95	
TOTAL	11.90	48.80	57.50	648.43	592.90	407.10	284.80	194.60	81.10	47.40	39.60	40.20	2454.33 CMSDAY
MEAN	0.40	1.57	1.92	20.92	19.13	13.57	9.19	6.49	2.62	1.53	1.41	1.30	6.72 CMS
MAX	4.80	6.80	13.20	120.99	76.40	29.00	15.60	12.40	4.20	2.20	2.00	2.00	120.99 CMS
MIN	0.00	0.15	0.55	0.55	6.80	7.60	5.10	4.20	2.20	1.00	1.00	0.90	0.00 CMS
RUNOFF	1.028	4.216	4.968	56.024	51.226	35.173	24.607	16.813	7.007	4.095	3.421	3.473	212.054 MCM

MOMENTARY PEAK 234.80 CMS, AT 343.19 M (MSL), AT 22.00 HOURS, ON JUL 6, 1981

RUNOFF YIELD 11.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 414.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

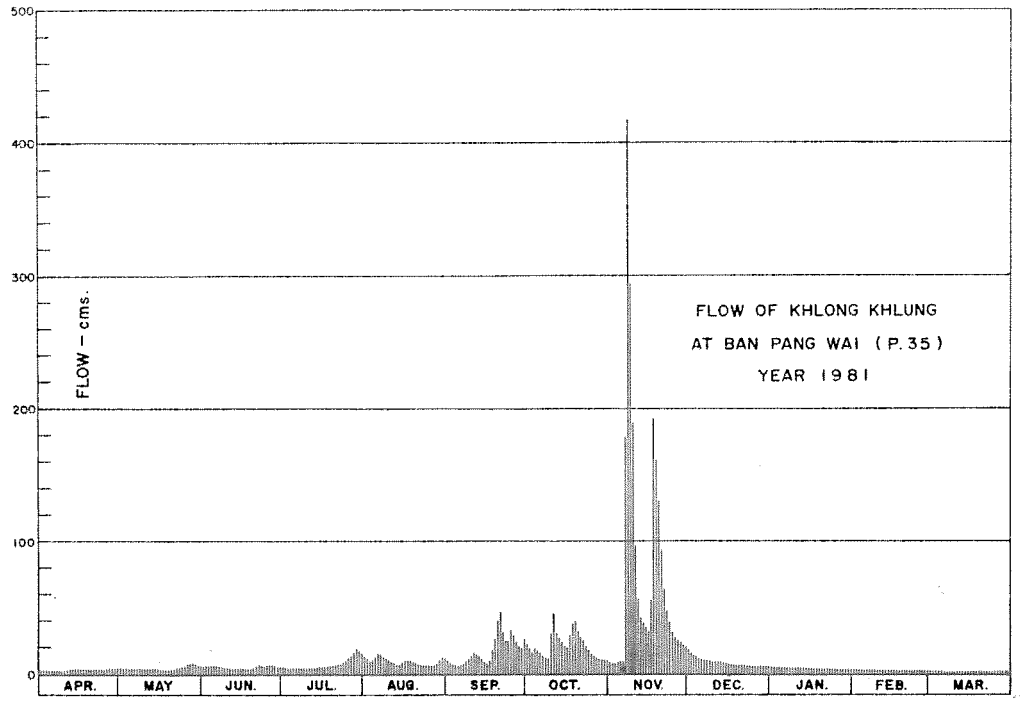
KHLONG KHLUNG AT BAN PANG WAI, KAMPHAENG PHET (P.35)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 149 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.45	0.61	0.56	1.03	0.93	1.36	0.86	1.23	0.59	0.39	0.31	
2	0.37	0.45	0.62	0.51	0.95	0.85	1.23	0.85	1.15	0.58	0.39	0.30	
3	0.36	0.43	0.68	0.50	0.89	0.78	1.14	0.82	1.09	0.58	0.39	0.30	
4	0.35	0.41	0.72	0.47	0.88	0.73	1.24	0.85	1.05	0.57	0.37	0.29	
5	0.35	0.46	0.73	0.45	1.02	0.69	1.17	0.90	1.01	0.56	0.38	0.29	
6	0.34	0.51	0.70	0.47	1.09	0.73	1.12	0.94	0.98	0.56	0.37	0.28	
7	0.33	0.49	0.65	0.54	1.09	0.76	1.08	1.52	0.96	0.55	0.37	0.27	
8	0.33	0.46	0.59	0.56	1.03	0.82	1.03	5.35	0.93	0.54	0.38	0.27	
9	0.34	0.43	0.53	0.56	0.94	0.93	1.03	4.25	0.90	0.53	0.36	0.28	
10	0.33	0.43	0.50	0.56	0.86	1.00	1.49	3.28	0.88	0.53	0.34	0.28	
11	0.34	0.43	0.48	0.58	0.80	1.06	1.91	2.56	0.87	0.52	0.33	0.27	
12	0.35	0.41	0.47	0.59	0.75	1.10	1.60	2.12	0.86	0.51	0.34	0.26	
13	0.40	0.40	0.46	0.55	0.72	1.05	1.48	1.84	0.85	0.50	0.34	0.26	
14	0.44	0.39	0.45	0.53	0.73	0.94	1.42	1.73	0.83	0.50	0.33	0.26	
15	0.43	0.38	0.45	0.55	0.77	0.82	1.31	1.70	0.81	0.49	0.33	0.26	
16	0.44	0.37	0.44	0.59	0.82	0.74	1.27	1.65	0.78	0.47	0.34	0.25	
17	0.45	0.36	0.44	0.60	0.90	0.89	1.54	2.04	0.77	0.42	0.33	0.24	
18	0.42	0.35	0.44	0.64	0.88	1.19	1.75	3.69	0.75	0.43	0.33	0.26	
19	0.41	0.36	0.47	0.65	0.83	1.31	1.77	3.39	0.73	0.44	0.33	0.27	
20	0.41	0.39	0.48	0.65	0.76	1.81	1.61	2.95	0.72	0.42	0.33	0.26	
21	0.40	0.41	0.57	0.71	0.72	1.92	1.57	2.50	0.70	0.43	0.33	0.27	
22	0.41	0.47	0.71	0.74	0.72	1.62	1.48	2.16	0.69	0.41	0.33	0.27	
23	0.40	0.50	0.61	0.74	0.71	1.44	1.35	1.94	0.68	0.39	0.32	0.27	
24	0.39	0.53	0.54	0.76	0.69	1.42	1.25	1.75	0.67	0.42	0.32	0.27	
25	0.37	0.59	0.64	0.89	0.68	1.66	1.15	1.60	0.66	0.43	0.31	0.26	
26	0.37	0.70	0.68	0.91	0.65	1.58	1.09	1.50	0.65	0.43	0.31	0.26	
27	0.46	0.81	0.69	1.05	0.69	1.44	1.02	1.45	0.64	0.41	0.31	0.26	
28	0.45	0.76	0.68	1.09	0.73	1.29	0.96	1.42	0.63	0.40	0.31	0.25	
29	0.41	0.75	0.65	1.25	0.92	1.26	0.94	1.34	0.62	0.40		0.26	
30	0.42	0.69	0.61	1.19	1.03	1.47	0.92	1.29	0.61	0.39		0.26	
31		0.67		1.11	0.98		0.90		0.60	0.38		0.27	
MEAN	0.39	0.49	0.58	0.70	0.85	1.14	1.30	2.01	0.82	0.48	0.34	0.27	
MAX	0.46	0.81	0.73	1.25	1.09	1.92	1.91	5.35	1.23	0.59	0.39	0.31	5.35
MIN	0.33	0.35	0.44	0.45	0.65	0.69	0.90	0.82	0.60	0.38	0.31	0.24	0.24

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.42 M (A.D), AT 9.00 HOURS, ON NOV 8, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.50	3.50	5.15	4.60	12.90	10.60	22.80	9.20	18.90	4.90	2.90	2.10	
2	2.70	3.50	5.30	4.10	11.00	9.00	18.90	9.00	16.50	4.80	2.90	2.00	
3	2.60	3.30	6.20	4.00	9.80	7.70	16.20	8.40	14.70	4.80	2.90	2.00	
4	2.50	3.10	6.80	3.70	9.60	6.95	19.20	9.00	13.50	4.70	2.70	1.90	
5	2.50	3.60	6.95	3.50	12.60	6.35	17.10	10.00	12.30	4.60	2.80	1.90	
6	2.40	4.10	6.50	3.70	14.70	6.95	15.60	10.80	11.60	4.60	2.70	1.80	
7	2.30	3.90	5.75	4.40	14.70	7.40	14.40	27.60	11.20	4.50	2.70	1.70	
8	2.30	3.60	4.90	4.60	12.90	8.40	12.90	416.00	10.60	4.40	2.80	1.70	
9	2.40	3.30	4.30	4.60	10.80	10.60	12.90	256.00	10.00	4.30	2.60	1.80	
10	2.30	3.30	4.00	4.60	9.20	12.00	26.70	150.00	9.60	4.30	2.40	1.80	
11	2.40	3.30	3.80	4.80	8.00	13.80	45.50	89.20	9.40	4.20	2.30	1.70	
12	2.50	3.10	3.70	4.90	7.25	15.00	30.00	58.40	9.20	4.10	2.40	1.60	
13	3.00	3.00	3.60	4.50	6.80	13.50	26.40	42.00	9.00	4.00	2.40	1.60	
14	3.40	2.90	3.50	4.30	6.95	10.80	24.60	37.50	8.60	4.00	2.30	1.60	
15	3.30	2.80	3.50	4.50	7.55	8.40	21.30	35.00	8.20	3.90	2.30	1.60	
16	3.40	2.70	3.40	4.90	8.40	7.10	20.10	32.50	7.70	3.70	2.40	1.50	
17	3.50	2.60	3.40	5.00	10.00	9.80	28.20	52.80	7.55	3.20	2.30	1.40	
18	3.20	2.50	3.40	5.60	9.60	17.70	37.50	191.00	7.25	3.30	2.30	1.60	
19	3.10	2.60	3.70	5.75	8.60	21.30	38.50	161.00	6.95	3.40	2.30	1.70	
20	3.10	2.90	3.80	5.75	7.40	40.50	30.50	120.00	6.80	3.20	2.30	1.60	
21	3.00	3.10	4.70	6.65	6.80	46.00	29.10	85.00	6.50	3.30	2.30	1.70	
22	3.10	3.70	6.65	7.10	6.80	31.00	26.40	61.20	6.35	3.10	2.30	1.70	
23	3.00	4.00	5.15	7.10	6.65	25.20	22.50	47.00	6.20	2.90	2.20	1.70	
24	2.90	4.30	4.40	7.40	6.35	24.60	19.50	37.50	6.05	3.20	2.20	1.70	
25	2.70	4.90	5.60	9.80	6.20	33.00	16.50	30.00	5.90	3.30	2.10	1.60	
26	2.70	6.50	6.20	10.20	5.75	29.40	14.70	27.00	5.75	3.30	2.10	1.60	
27	3.60	8.20	6.35	13.50	6.35	25.20	12.60	25.50	5.60	3.10	2.10	1.60	
28	3.50	7.40	6.20	14.70	6.95	20.70	11.20	24.60	5.45	3.00	2.10	1.50	
29	3.10	7.25	5.75	19.50	10.40	19.80	10.80	22.20	5.30	3.00		1.60	
30	3.20	6.35	5.15	17.70	12.90	26.10	10.40	20.70	5.15	2.90		1.60	
31		6.05		15.30	11.60		10.00		5.00	2.80		1.70	
TOTAL	86.20	125.35	147.80	220.75	285.50	524.85	663.00	2106.10	272.80	116.80	68.10	52.60	4669.84 CMSDAY
MEAN	2.87	4.04	4.93	7.12	9.21	17.49	21.39	70.20	8.80	3.77	2.43	1.70	12.79 CMS
MAX	3.60	8.20	6.95	19.50	14.70	46.00	45.50	416.00	18.90	4.90	2.90	2.10	416.00 CMS
MIN	2.30	2.50	3.40	3.50	5.75	6.35	10.00	8.40	5.00	2.80	2.10	1.40	1.40 CMS
RUNOFF	7.448	10.830	12.770	19.073	24.667	45.347	57.283	181.967	23.570	10.092	5.884	4.545	403.474 MCM

MOMENTARY PEAK 610.00 CMS, AT 6.42 M (A.D), AT 9.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 17.53 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 835.62 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

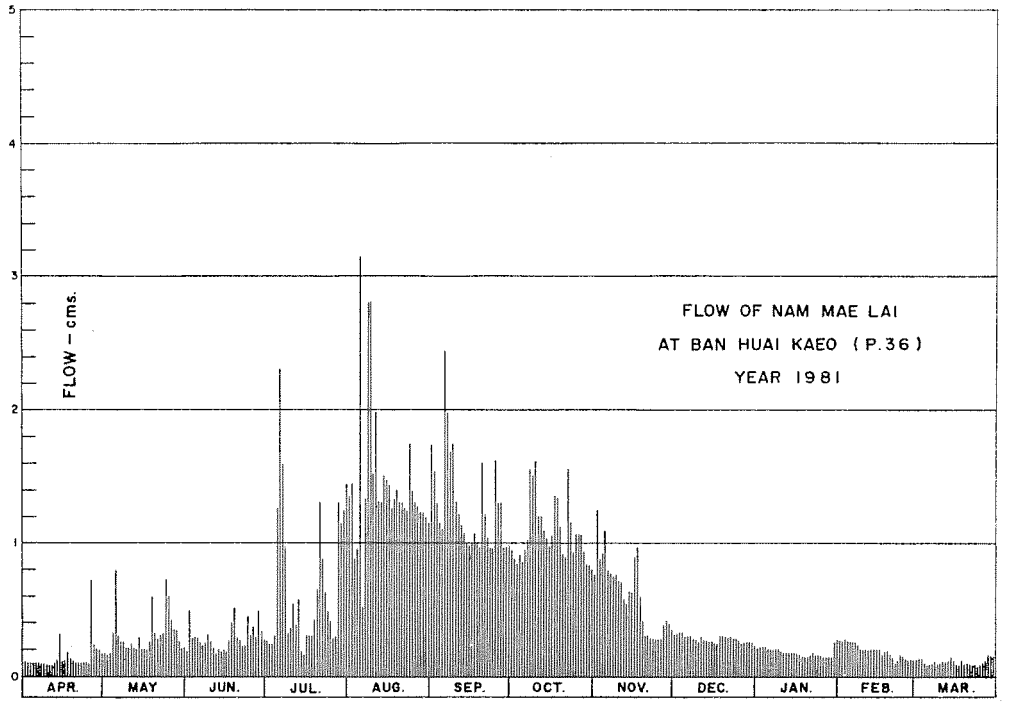
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 115 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	559.20	559.23	559.24	559.28	559.57	559.64	559.48	559.44	559.31	559.26	559.29	559.22	
2	559.20	559.23	559.36	559.27	559.59	559.61	559.47	559.55	559.31	559.26	559.29	559.22	
3	559.20	559.23	559.29	559.27	559.47	559.56	559.46	559.47	559.31	559.26	559.29	559.21	
4	559.19	559.30	559.31	559.30	559.49	559.53	559.48	559.48	559.31	559.25	559.28	559.18	
5	559.19	559.45	559.29	559.54	559.85	559.52	559.46	559.52	559.30	559.25	559.28	559.18	
6	559.20	559.30	559.28	559.73	559.37	559.75	559.48	559.45	559.30	559.25	559.28	559.19	
7	559.19	559.28	559.26	559.57	559.53	559.69	559.50	559.44	559.30	559.25	559.27	559.21	
8	559.19	559.28	559.28	559.39	559.80	559.63	559.61	559.44	559.29	559.25	559.26	559.20	
9	559.18	559.25	559.30	559.30	559.80	559.64	559.60	559.44	559.28	559.25	559.25	559.19	
10	559.18	559.25	559.29	559.32	559.60	559.57	559.62	559.43	559.28	559.24	559.25	559.19	
11	559.18	559.27	559.24	559.38	559.68	559.55	559.54	559.42	559.30	559.24	559.25	559.21	
12	559.19	559.25	559.23	559.33	559.56	559.53	559.54	559.40	559.28	559.24	559.25	559.21	
13	559.20	559.25	559.25	559.39	559.56	559.51	559.52	559.38	559.28	559.24	559.25	559.21	
14	559.30	559.29	559.24	559.24	559.60	559.50	559.51	559.41	559.28	559.24	559.25	559.22	
15	559.19	559.25	559.25	559.22	559.59	559.49	559.49	559.40	559.28	559.23	559.25	559.21	
16	559.21	559.25	559.24	559.30	559.58	559.50	559.51	559.47	559.27	559.23	559.25	559.18	
17	559.24	559.25	559.28	559.30	559.55	559.51	559.57	559.49	559.27	559.23	559.23	559.18	
18	559.22	559.28	559.33	559.29	559.57	559.50	559.57	559.41	559.30	559.22	559.25	559.20	
19	559.20	559.40	559.37	559.33	559.58	559.49	559.52	559.36	559.30	559.22	559.25	559.19	
20	559.20	559.30	559.30	559.43	559.56	559.62	559.48	559.31	559.30	559.22	559.23	559.18	
21	559.20	559.28	559.27	559.56	559.56	559.53	559.47	559.30	559.29	559.23	559.22	559.18	
22	559.20	559.30	559.27	559.46	559.55	559.51	559.61	559.29	559.29	559.24	559.19	559.19	
23	559.20	559.31	559.27	559.41	559.55	559.49	559.52	559.29	559.29	559.23	559.20	559.17	
24	559.20	559.43	559.35	559.36	559.64	559.49	559.48	559.29	559.29	559.23	559.23	559.16	
25	559.19	559.40	559.30	559.34	559.58	559.62	559.51	559.29	559.28	559.23	559.22	559.20	
26	559.43	559.34	559.32	559.29	559.56	559.56	559.51	559.29	559.28	559.22	559.21	559.21	
27	559.27	559.31	559.30	559.30	559.55	559.56	559.51	559.33	559.28	559.22	559.21	559.23	
28	559.25	559.31	559.36	559.56	559.55	559.49	559.49	559.34	559.28	559.22	559.21	559.23	
29	559.24	559.27	559.31	559.53	559.54	559.49	559.46	559.33	559.28	559.22		559.23	
30	559.23	559.25	559.29	559.56	559.53	559.50	559.45	559.33	559.27	559.28		559.22	
31		559.26		559.59	559.53		559.45		559.26	559.29		559.22	
MEAN	559.21	559.29	559.29	559.39	559.58	559.55	559.51	559.39	559.29	559.24	559.25	559.20	
MAX	559.43	559.45	559.37	559.73	559.85	559.75	559.62	559.55	559.31	559.29	559.29	559.23	559.85
MIN	559.18	559.23	559.23	559.22	559.37	559.49	559.45	559.29	559.26	559.22	559.19	559.16	559.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 560.75 M (MSL), AT 1.00 HOURS, ON AUG 5, 1981
ZERO GAGE AT BOTTOM ELEVATION 558.80 M (MSL), RIVER BED 558.93 M (MSL)
LEFT BANK ELEVATION 564.45 M (MSL)
RIGHT BANK ELEVATION 564.86 M (MSL), DRAINAGE AREA 35 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.16	0.18	0.26	1.35	1.74	0.92	0.76	0.33	0.22	0.28	0.14	
2	0.10	0.16	0.48	0.24	1.45	1.56	0.88	1.25	0.33	0.22	0.28	0.14	
3	0.10	0.16	0.28	0.24	0.88	1.30	0.84	0.88	0.33	0.22	0.28	0.12	
4	0.09	0.30	0.33	0.30	0.96	1.15	0.92	0.92	0.33	0.20	0.26	0.08	
5	0.09	0.80	0.28	1.20	3.15	1.10	0.84	1.10	0.30	0.20	0.26	0.08	
6	0.10	0.30	0.26	2.31	0.51	2.45	0.92	0.80	0.30	0.20	0.26	0.09	
7	0.09	0.26	0.22	1.35	1.15	2.04	1.00	0.76	0.30	0.20	0.24	0.12	
8	0.09	0.26	0.26	0.57	2.80	1.68	1.56	0.76	0.28	0.20	0.22	0.10	
9	0.08	0.20	0.30	0.30	2.80	1.74	1.50	0.76	0.26	0.20	0.20	0.09	
10	0.08	0.20	0.28	0.36	1.50	1.35	1.62	0.72	0.26	0.18	0.20	0.09	
11	0.08	0.24	0.18	0.54	1.98	1.25	1.20	0.68	0.30	0.18	0.20	0.12	
12	0.09	0.20	0.16	0.39	1.30	1.15	1.20	0.60	0.26	0.18	0.20	0.12	
13	0.10	0.20	0.20	0.57	1.30	1.05	1.10	0.54	0.26	0.18	0.20	0.12	
14	0.30	0.28	0.18	0.18	1.50	1.00	1.05	0.64	0.26	0.18	0.20	0.14	
15	0.09	0.20	0.20	0.14	1.45	0.96	0.96	0.60	0.26	0.16	0.20	0.12	
16	0.12	0.20	0.18	0.30	1.40	1.00	1.05	0.88	0.24	0.16	0.20	0.08	
17	0.18	0.20	0.26	0.30	1.25	1.05	1.35	0.96	0.24	0.16	0.16	0.08	
18	0.14	0.26	0.39	0.28	1.35	1.00	1.35	0.64	0.30	0.14	0.20	0.10	
19	0.10	0.60	0.51	0.39	1.40	0.96	1.10	0.48	0.30	0.14	0.20	0.09	
20	0.10	0.30	0.30	0.72	1.30	1.62	0.92	0.33	0.30	0.14	0.16	0.08	
21	0.10	0.26	0.24	1.30	1.30	1.15	0.88	0.30	0.28	0.16	0.14	0.08	
22	0.10	0.30	0.24	0.84	1.25	1.05	1.56	0.28	0.28	0.18	0.09	0.09	
23	0.10	0.33	0.24	0.64	1.25	0.96	1.10	0.28	0.28	0.16	0.10	0.07	
24	0.10	0.72	0.45	0.48	1.74	0.96	0.92	0.28	0.28	0.16	0.16	0.06	
25	0.09	0.60	0.30	0.42	1.40	1.62	1.05	0.28	0.26	0.16	0.14	0.10	
26	0.72	0.42	0.36	0.28	1.30	1.30	1.05	0.28	0.26	0.14	0.12	0.12	
27	0.24	0.33	0.30	0.30	1.25	1.30	1.05	0.39	0.26	0.14	0.12	0.16	
28	0.20	0.33	0.48	1.30	1.25	0.96	0.96	0.42	0.26	0.14	0.12	0.16	
29	0.18	0.24	0.33	1.15	1.20	0.96	0.84	0.39	0.26	0.14		0.16	
30	0.16	0.20	0.28	1.30	1.15	1.00	0.80	0.39	0.24	0.26		0.14	
31		0.22		1.45	1.15		0.80		0.22	0.28		0.14	
TOTAL	4.21	9.43	8.65	20.40	45.02	38.41	33.29	18.35	8.62	5.58	5.39	3.38	200.73 CMSDAY
MEAN	0.14	0.30	0.29	0.66	1.45	1.28	1.07	0.61	0.28	0.18	0.19	0.11	0.55 CMS
MAX	0.72	0.80	0.51	2.31	3.15	2.45	1.62	1.25	0.33	0.28	0.28	0.16	3.15 CMS
MIN	0.08	0.16	0.16	0.14	0.51	0.96	0.80	0.28	0.22	0.14	0.09	0.06	0.06 CMS
RUNOFF	0.364	0.815	0.747	1.763	3.890	3.319	2.876	1.585	0.745	0.482	0.466	0.292	17.343 MCM

MOMENTARY PEAK 14.70 CMS, AT 560.75 M (MSL), AT 1.00 HOURS, ON AUG 5, 1981
RUNOFF YIELD 15.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 419.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

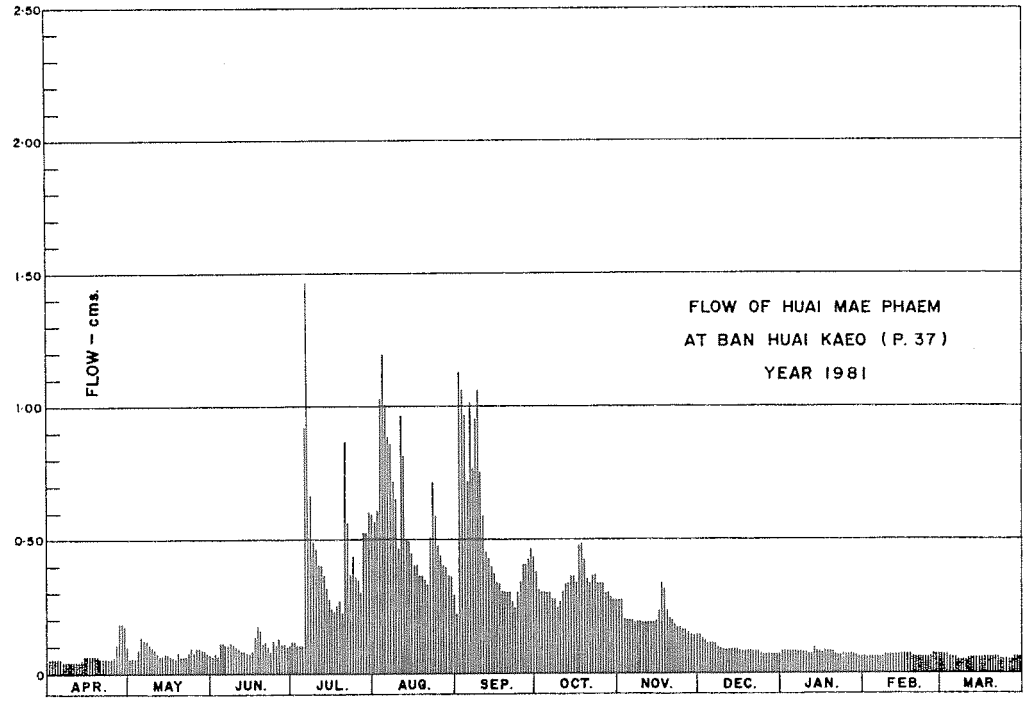
HUAI MAE PHAEM AT BAN HUAI KAEO, CHIANG MAI (P.37)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 83 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	527.71	527.71	527.72	527.78	528.10	527.99	528.04	528.01	527.94	527.90	527.88	527.89	
2	527.71	527.71	527.73	527.78	528.11	528.21	528.02	528.01	527.93	527.90	527.88	527.89	
3	527.71	527.71	527.72	527.76	528.17	528.20	528.02	527.98	527.93	527.90	527.88	527.88	
4	527.71	527.73	527.77	527.77	528.22	528.18	528.02	527.98	527.92	527.90	527.88	527.88	
5	527.71	527.79	527.77	527.76	528.19	528.13	528.02	527.98	527.92	527.90	527.88	527.88	
6	527.70	527.78	527.76	528.26	528.17	528.19	528.02	527.98	527.92	527.90	527.88	527.87	
7	527.70	527.78	527.76	528.20	528.16	528.14	528.01	527.97	527.92	527.90	527.88	527.87	
8	527.70	527.76	527.77	528.12	528.13	528.18	528.01	527.97	527.91	527.90	527.88	527.87	
9	527.70	527.75	527.76	528.08	528.12	528.20	528.00	527.97	527.91	527.90	527.89	527.87	
10	527.70	527.75	527.76	528.07	528.07	528.13	528.01	527.97	527.91	527.90	527.89	527.87	
11	527.70	527.73	527.75	528.05	528.18	528.11	528.02	527.97	527.91	527.89	527.89	527.88	
12	527.70	527.72	527.74	528.05	528.15	528.07	528.03	527.97	527.91	527.89	527.89	527.88	
13	527.70	527.72	527.74	528.04	528.08	528.06	528.03	527.97	527.91	527.91	527.89	527.88	
14	527.72	527.73	527.73	528.02	528.08	528.05	528.04	527.97	527.91	527.90	527.89	527.88	
15	527.72	527.73	527.73	528.01	528.07	528.04	528.04	527.97	527.91	527.90	527.89	527.88	
16	527.72	527.72	527.73	528.00	528.05	528.03	528.03	527.99	527.90	527.89	527.89	527.88	
17	527.72	527.72	527.77	527.99	528.05	528.03	528.07	528.03	527.90	527.90	527.89	527.88	
18	527.72	527.71	527.82	528.00	528.04	528.02	528.08	528.02	527.90	527.90	527.89	527.88	
19	527.72	527.73	527.82	528.01	528.04	528.02	528.06	527.99	527.90	527.90	527.88	527.88	
20	527.71	527.73	527.78	527.99	528.04	528.02	528.04	527.98	527.90	527.90	527.88	527.88	
21	527.71	527.72	527.76	528.16	528.03	528.02	528.03	527.97	527.90	527.89	527.88	527.88	
22	527.71	527.72	527.74	528.08	528.08	528.01	528.04	527.96	527.90	527.88	527.88	527.88	
23	527.71	527.73	527.73	528.04	528.13	528.00	528.04	527.96	527.90	527.88	527.88	527.87	
24	527.71	527.75	527.78	528.06	528.11	528.02	528.03	527.96	527.89	527.89	527.88	527.87	
25	527.71	527.73	527.76	528.04	528.08	528.03	528.03	527.95	527.89	527.89	527.88	527.87	
26	527.75	527.75	527.79	528.03	528.06	528.05	528.03	527.95	527.89	527.89	527.88	527.87	
27	527.83	527.75	527.76	528.02	528.05	528.05	528.02	527.94	527.89	527.89	527.89	527.87	
28	527.83	527.74	527.77	528.09	528.05	528.06	528.02	527.94	527.89	527.89	527.89	527.88	
29	527.82	527.74	527.76	528.09	528.04	528.07	528.01	527.94	527.89	527.88		527.88	
30	527.81	527.73	527.75	528.11	528.04	528.06	528.01	527.94	527.89	527.88		527.88	
31		527.73		528.11	528.04		528.01		527.89	527.88		527.88	
MEAN	527.72	527.73	527.76	528.02	528.09	528.08	528.03	527.97	527.90	527.89	527.88	527.88	
MAX	527.83	527.79	527.82	528.26	528.22	528.21	528.08	528.03	527.94	527.91	527.89	527.89	528.26
MIN	527.70	527.71	527.72	527.76	528.03	527.99	528.00	527.94	527.89	527.88	527.88	527.87	527.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 528.31 M (MSL), AT 12.00 HOURS, ON JUL 6, 1981
ZERO GAGE AT BOTTOM ELEVATION 527.23 M (MSL); RIVER BED 527.72 M (MSL)
LEFT BANK ELEVATION 532.13 M (MSL)
RIGHT BANK ELEVATION 531.98 M (MSL), DRAINAGE AREA 14 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.050	0.050	0.060	0.120	0.560	0.224	0.368	0.272	0.144	0.080	0.064	0.072	
2	0.050	0.050	0.070	0.120	0.609	1.126	0.304	0.272	0.128	0.080	0.064	0.072	
3	0.050	0.050	0.060	0.100	0.910	1.060	0.304	0.208	0.128	0.080	0.064	0.064	
4	0.050	0.070	0.110	0.110	1.192	0.960	0.304	0.208	0.112	0.080	0.064	0.064	
5	0.050	0.130	0.110	0.100	1.010	0.710	0.304	0.208	0.112	0.080	0.064	0.064	
6	0.040	0.120	0.100	1.456	0.910	1.010	0.304	0.208	0.112	0.080	0.064	0.056	
7	0.040	0.120	0.100	1.060	0.860	0.760	0.272	0.192	0.112	0.080	0.064	0.056	
8	0.040	0.100	0.110	0.660	0.710	0.960	0.272	0.192	0.096	0.080	0.064	0.056	
9	0.040	0.090	0.100	0.496	0.660	1.060	0.240	0.192	0.096	0.080	0.072	0.056	
10	0.040	0.090	0.100	0.464	0.464	0.710	0.272	0.192	0.096	0.080	0.072	0.056	
11	0.040	0.070	0.090	0.400	0.960	0.609	0.304	0.192	0.096	0.072	0.072	0.064	
12	0.040	0.060	0.080	0.400	0.810	0.464	0.336	0.192	0.096	0.072	0.072	0.064	
13	0.040	0.060	0.080	0.368	0.496	0.432	0.336	0.192	0.096	0.096	0.072	0.064	
14	0.060	0.070	0.070	0.304	0.496	0.400	0.368	0.192	0.096	0.080	0.072	0.064	
15	0.060	0.070	0.070	0.272	0.464	0.368	0.368	0.192	0.096	0.080	0.072	0.064	
16	0.060	0.060	0.070	0.240	0.400	0.336	0.336	0.224	0.080	0.072	0.072	0.064	
17	0.060	0.060	0.110	0.224	0.400	0.336	0.464	0.336	0.080	0.080	0.072	0.064	
18	0.060	0.050	0.172	0.240	0.368	0.304	0.496	0.304	0.080	0.080	0.072	0.064	
19	0.060	0.070	0.172	0.272	0.368	0.304	0.432	0.224	0.080	0.080	0.064	0.064	
20	0.050	0.070	0.120	0.224	0.368	0.304	0.368	0.208	0.080	0.080	0.064	0.064	
21	0.050	0.060	0.100	0.860	0.336	0.304	0.336	0.192	0.080	0.072	0.064	0.064	
22	0.050	0.060	0.080	0.496	0.496	0.272	0.368	0.176	0.080	0.064	0.064	0.064	
23	0.050	0.070	0.070	0.368	0.710	0.240	0.368	0.176	0.080	0.064	0.064	0.056	
24	0.050	0.090	0.120	0.432	0.609	0.304	0.336	0.176	0.072	0.072	0.064	0.056	
25	0.050	0.070	0.100	0.368	0.496	0.336	0.336	0.160	0.072	0.072	0.064	0.056	
26	0.090	0.090	0.130	0.336	0.432	0.400	0.336	0.160	0.072	0.072	0.064	0.056	
27	0.188	0.090	0.100	0.304	0.400	0.400	0.304	0.144	0.072	0.072	0.072	0.056	
28	0.188	0.080	0.110	0.528	0.400	0.432	0.304	0.144	0.072	0.072	0.072	0.064	
29	0.172	0.080	0.100	0.528	0.368	0.464	0.272	0.144	0.072	0.064		0.064	
30	0.156	0.070	0.090	0.609	0.368	0.432	0.272	0.144	0.072	0.064		0.064	
31		0.070		0.609	0.368		0.272		0.072	0.064		0.064	
TOTAL	2.024	2.340	2.954	13.068	17.998	16.021	10.256	6.016	2.832	2.344	1.888	1.920	79.661 CMSDAY
MEAN	0.067	0.075	0.098	0.422	0.581	0.534	0.331	0.201	0.091	0.076	0.067	0.062	0.218 CMS
MAX	0.188	0.130	0.172	1.456	1.192	1.126	0.496	0.336	0.144	0.096	0.072	0.072	1.456 CMS
MIN	0.040	0.050	0.060	0.100	0.336	0.224	0.240	0.144	0.072	0.064	0.064	0.056	0.040 CMS
RUNOFF	0.175	0.202	0.255	1.129	1.555	1.384	0.886	0.520	0.245	0.203	0.163	0.166	6.883 MCM

MOMENTARY PEAK 1.81 CMS, AT 528.31 M (MSL), AT 12.00 HOURS, ON JUL 6, 1981
RUNOFF YIELD 15.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 129.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

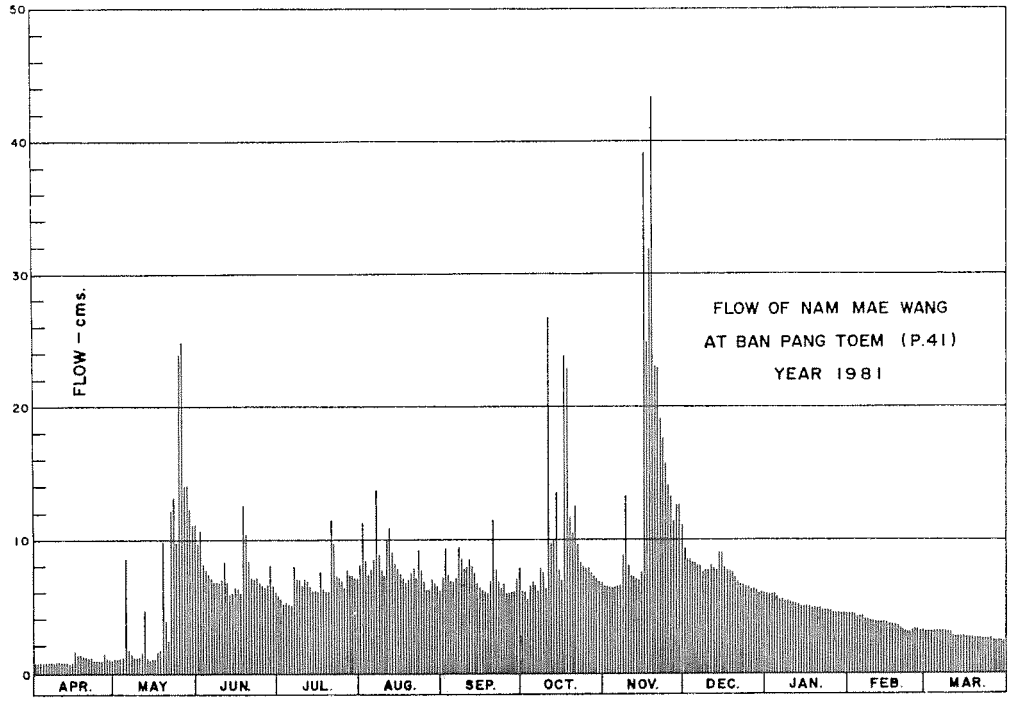
NAM MAE WANG AT BAN PANG TOEM, CHIANG MAI (P.41)

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 AT	+322.20 M. (M.S.L.)
BENCH MARK	B.M.-M.D. NO. 23
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 137 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	322.65	322.69	323.23	323.03	323.17	323.06	323.05	323.07	323.20	323.04	322.96	322.87	
2	322.65	322.68	323.28	323.02	323.32	323.21	323.05	323.07	323.17	323.04	322.96	322.87	
3	322.65	322.68	323.19	323.00	323.18	323.11	323.02	323.07	323.17	323.04	322.96	322.87	
4	322.65	322.71	323.13	323.00	323.12	323.09	323.07	323.07	323.16	323.04	322.95	322.87	
5	322.65	323.18	323.12	323.00	323.14	323.09	323.09	323.07	323.15	323.03	322.95	322.87	
6	322.65	322.77	323.11	323.00	323.18	323.10	323.07	323.07	323.15	323.02	322.95	322.87	
7	322.65	322.72	323.09	323.15	323.43	323.22	323.05	323.06	323.14	323.02	322.94	322.87	
8	322.65	322.71	323.09	323.09	323.21	323.18	323.14	323.16	323.14	323.02	322.93	322.87	
9	322.65	322.71	323.08	323.09	323.15	323.13	323.11	323.41	323.13	323.02	322.93	322.87	
10	322.65	322.70	323.10	323.06	323.10	323.14	323.05	323.15	323.13	323.01	322.93	322.87	
11	322.65	322.76	323.16	323.09	323.23	323.18	323.91	323.11	323.15	323.01	322.92	322.86	
12	322.65	322.97	323.08	323.09	323.29	323.15	323.23	323.10	323.14	323.01	322.92	322.85	
13	322.65	322.70	323.04	323.05	323.21	323.11	323.25	323.09	323.13	323.00	322.92	322.85	
14	322.65	322.70	323.05	323.05	323.15	323.08	323.42	323.08	323.20	323.00	322.92	322.85	
15	322.65	322.68	323.07	323.05	323.13	323.06	323.13	323.12	323.20	323.00	322.92	322.85	
16	322.76	322.70	323.06	323.05	323.12	323.05	323.10	324.33	323.14	323.00	322.91	322.85	
17	322.74	322.75	323.05	323.12	323.10	323.04	323.81	323.85	323.13	322.99	322.91	322.85	
18	322.73	322.75	323.38	323.06	323.07	323.03	323.75	323.98	323.13	322.99	322.90	322.84	
19	322.72	323.24	323.27	323.05	323.09	323.09	323.37	324.45	323.12	322.99	322.90	322.84	
20	322.71	322.99	323.18	323.05	323.12	323.32	323.28	323.79	323.09	322.99	322.89	322.84	
21	322.70	322.82	323.10	323.32	323.14	323.13	323.37	323.75	323.08	322.99	322.88	322.84	
22	322.70	323.35	323.10	323.20	323.10	323.10	323.22	323.67	323.08	322.98	322.87	322.84	
23	322.68	323.41	323.10	323.11	323.21	323.05	323.16	323.60	323.08	322.98	322.87	322.84	
24	322.66	323.24	323.08	323.10	323.13	323.08	323.14	323.53	323.07	322.98	322.87	322.84	
25	322.66	323.82	323.07	323.09	323.09	323.05	323.14	323.46	323.07	322.98	322.89	322.84	
26	322.66	323.85	323.06	323.06	323.05	323.04	323.14	323.42	323.06	322.96	322.89	322.83	
27	322.73	323.44	323.07	323.13	323.06	323.04	323.12	323.31	323.06	322.96	322.88	322.83	
28	322.69	323.44	323.15	323.11	323.10	323.05	323.11	323.37	323.05	322.96	322.88	322.83	
29	322.68	323.38	323.06	323.11	323.09	323.10	323.09	323.38	323.05	322.96		322.83	
30	322.67	323.30	323.04	323.09	323.08	323.14	323.09	323.35	323.05	322.96		322.83	
31		323.31		323.10	323.06		323.08		323.04	322.96		322.83	
MEAN	322.67	323.00	323.12	323.08	323.15	323.11	323.21	323.40	323.12	323.00	322.91	322.85	
MAX	322.76	323.85	323.38	323.32	323.43	323.32	323.91	324.45	323.20	323.04	322.96	322.87	324.45
MIN	322.65	322.68	323.04	323.00	323.05	323.03	323.02	323.06	323.04	322.96	322.87	322.83	322.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 326.48 M (MSL), AT 1.00 HOURS, ON NOV 16, 1981
ZERO GAGE AT BOTTOM ELEVATION 322.20 M (MSL), RIVER BED 322.62 M (MSL)
LEFT BANK ELEVATION 327.55 M (MSL)
RIGHT BANK ELEVATION 326.54 M (MSL), DRAINAGE AREA 426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.75	0.95	9.60	5.60	8.40	6.20	6.00	6.40	9.00	5.80	4.40	3.05	
2	0.75	0.90	10.60	5.40	11.40	9.20	6.00	6.40	8.40	5.80	4.40	3.05	
3	0.75	0.90	8.80	5.00	8.60	7.20	5.40	6.40	8.40	5.80	4.40	3.05	
4	0.75	1.10	7.60	5.00	7.40	6.80	6.40	6.40	8.20	5.80	4.25	3.05	
5	0.75	8.60	7.40	5.00	7.80	6.80	6.80	6.40	8.00	5.60	4.25	3.05	
6	0.75	1.70	7.20	5.00	8.60	7.00	6.40	6.40	8.00	5.40	4.25	3.05	
7	0.75	1.20	6.80	8.00	13.75	9.40	6.00	6.20	7.80	5.40	4.10	3.05	
8	0.75	1.10	6.80	6.80	9.20	8.60	7.80	8.20	7.80	5.40	3.95	3.05	
9	0.75	1.10	6.60	6.80	8.00	7.60	7.20	13.25	7.60	5.40	3.95	3.05	
10	0.75	1.00	7.00	6.20	7.00	7.80	6.00	8.00	7.60	5.20	3.95	3.05	
11	0.75	1.60	8.20	6.80	9.60	8.60	26.62	7.20	8.00	5.20	3.80	2.90	
12	0.75	4.55	6.60	6.80	10.80	8.00	9.60	7.00	7.80	5.20	3.80	2.75	
13	0.75	1.00	5.80	6.00	9.20	7.20	10.00	6.80	7.60	5.00	3.80	2.75	
14	0.75	1.00	6.00	6.00	8.00	6.60	13.50	6.60	9.00	5.00	3.80	2.75	
15	0.75	0.90	6.40	6.00	7.60	6.20	7.60	7.40	9.00	5.00	3.80	2.75	
16	1.60	1.00	6.20	6.00	7.40	6.00	7.00	39.05	7.80	5.00	3.65	2.75	
17	1.40	1.50	6.00	7.40	7.00	5.80	23.71	24.87	7.60	4.85	3.65	2.75	
18	1.30	1.50	12.60	6.20	6.40	5.60	21.96	28.67	7.60	4.85	3.50	2.60	
19	1.20	9.80	10.40	6.00	6.80	6.80	12.40	43.25	7.40	4.85	3.50	2.60	
20	1.10	4.85	8.60	6.00	7.40	11.40	10.60	23.12	6.80	4.85	3.35	2.60	
21	1.00	2.30	7.00	11.40	7.80	7.60	12.40	21.96	6.60	4.85	3.20	2.60	
22	1.00	12.00	7.00	9.00	7.00	7.00	9.40	19.75	6.60	4.70	3.05	2.60	
23	0.90	13.25	7.00	7.20	9.20	6.00	8.20	18.00	6.60	4.70	3.05	2.60	
24	0.80	9.80	6.60	7.00	7.60	6.60	7.80	16.25	6.40	4.70	3.05	2.60	
25	0.80	24.00	6.40	6.80	6.80	6.00	7.80	14.50	6.40	4.70	3.35	2.60	
26	0.80	24.87	6.20	6.20	6.00	5.80	7.80	13.50	6.20	4.40	3.35	2.45	
27	1.30	14.00	6.40	7.60	6.20	5.80	7.40	11.20	6.20	4.40	3.20	2.45	
28	0.95	14.00	8.00	7.20	7.00	6.00	7.20	12.40	6.00	4.40	3.20	2.45	
29	0.90	12.60	6.20	7.20	6.80	7.00	6.80	12.60	6.00	4.40		2.45	
30	0.85	11.00	5.80	6.80	6.60	7.80	6.80	12.00	6.00	4.40		2.45	
31		11.20		7.00	6.20		6.60		5.80	4.40		2.45	
TOTAL	27.15	195.27	221.80	205.40	247.55	214.40	295.19	420.17	228.20	155.45	104.00	85.40	2399.98 CMSDAY
MEAN	0.90	6.30	7.39	6.63	7.99	7.15	9.52	14.01	7.36	5.01	3.71	2.75	6.58 CMS
MAX	1.60	24.87	12.60	11.40	13.75	11.40	26.62	43.25	9.00	5.80	4.40	3.05	43.25 CMS
MIN	0.75	0.90	5.80	5.00	6.00	5.60	5.40	6.20	5.80	4.40	3.05	2.45	0.75 CMS
RUNOFF	2.346	16.871	19.164	17.747	21.388	18.524	25.504	36.303	19.716	13.431	8.986	7.379	207.358 MCM

MOMENTARY PEAK 129.00 CMS, AT 326.48 M (MSL), AT 1.00 HOURS, ON NOV 16, 1981

RUNOFF YIELD 15.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 302.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PING RIVER BASIN

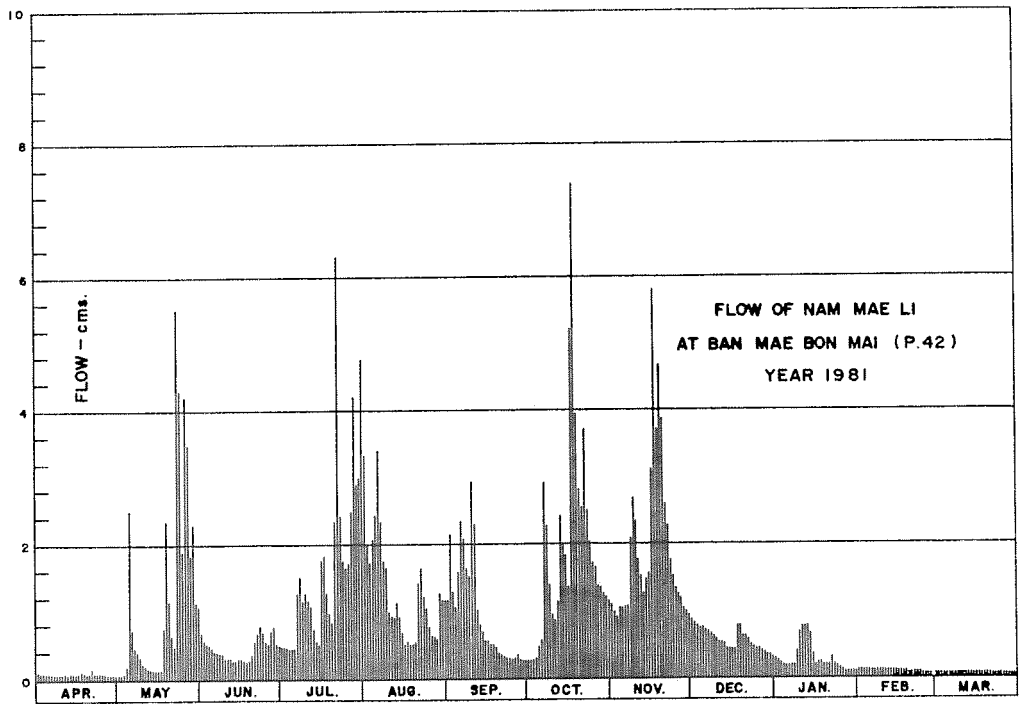
NAM MAE LI AT BAN MAE BON MAI, LAMPHUN (P.42)

LOCATION	LAT. 17°-53'-16" N., LONG. 99°-05'-20" E., ON RIGHT BANK AT BAN MAE BON MAI, AMPHOE LI, LAMPHUN.
DRAINAGE AREA	315 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+500.10 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ALONG STAFF GAGE LINE.
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 132 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.34	500.32	500.54	500.49	500.96	500.65	500.42	500.64	500.59	500.43	500.36	500.33	
2	500.33	500.32	500.51	500.49	500.80	500.82	500.42	500.62	500.58	500.42	500.36	500.33	
3	500.33	500.32	500.50	500.49	500.75	500.67	500.42	500.60	500.57	500.41	500.36	500.33	
4	500.33	500.39	500.49	500.48	500.81	500.63	500.43	500.63	500.56	500.39	500.36	500.33	
5	500.33	500.87	500.48	500.48	500.86	500.73	500.49	500.63	500.56	500.39	500.36	500.33	
6	500.33	500.55	500.46	500.48	501.00	500.85	500.52	500.63	500.55	500.39	500.36	500.33	
7	500.33	500.48	500.46	500.63	500.85	500.81	500.93	500.63	500.55	500.40	500.36	500.33	
8	500.33	500.46	500.45	500.72	500.76	500.74	500.84	500.81	500.54	500.40	500.36	500.33	
9	500.33	500.44	500.45	500.65	500.74	500.72	500.70	500.90	500.53	500.47	500.36	500.33	
10	500.33	500.41	500.43	500.67	500.62	500.93	500.61	500.85	500.52	500.55	500.36	500.33	
11	500.33	500.39	500.43	500.65	500.60	500.84	500.59	500.76	500.51	500.57	500.36	500.33	
12	500.32	500.37	500.43	500.63	500.60	500.62	500.65	500.72	500.51	500.57	500.36	500.33	
13	500.33	500.37	500.42	500.56	500.64	500.57	500.86	500.67	500.50	500.57	500.35	500.33	
14	500.33	500.36	500.42	500.51	500.60	500.55	500.80	500.71	500.48	500.54	500.35	500.33	
15	500.33	500.36	500.43	500.50	500.54	500.51	500.77	500.73	500.48	500.45	500.35	500.33	
16	500.33	500.36	500.43	500.76	500.50	500.51	500.69	501.03	500.48	500.40	500.35	500.33	
17	500.35	500.36	500.42	500.77	500.51	500.50	501.23	501.28	500.48	500.41	500.35	500.33	
18	500.34	500.56	500.41	500.67	500.50	500.50	501.44	501.04	500.57	500.41	500.35	500.33	
19	500.33	500.85	500.42	500.61	500.50	500.49	501.07	501.16	500.57	500.40	500.35	500.33	
20	500.33	500.65	500.45	500.58	500.51	500.46	500.92	501.06	500.53	500.40	500.34	500.33	
21	500.37	500.53	500.51	500.85	500.70	500.45	500.88	500.89	500.53	500.40	500.34	500.33	
22	500.33	500.49	500.53	501.33	500.74	500.44	501.04	500.84	500.52	500.44	500.34	500.32	
23	500.33	501.25	500.57	500.88	500.66	500.43	500.87	500.76	500.50	500.40	500.34	500.32	
24	500.33	501.11	500.55	500.76	500.63	500.43	500.80	500.72	500.49	500.39	500.34	500.32	
25	500.33	500.78	500.51	500.74	500.56	500.43	500.75	500.69	500.48	500.38	500.33	500.32	
26	500.33	501.10	500.50	500.75	500.53	500.43	500.74	500.67	500.48	500.36	500.33	500.32	
27	500.32	501.01	500.54	500.87	500.53	500.45	500.69	500.66	500.47	500.35	500.33	500.32	
28	500.32	500.77	500.57	501.10	500.52	500.43	500.69	500.63	500.46	500.35	500.33	500.32	
29	500.32	500.84	500.50	500.93	500.67	500.42	500.67	500.62	500.45	500.35		500.32	
30	500.32	500.66	500.50	500.94	500.65	500.42	500.66	500.61	500.45	500.35		500.32	
31		500.63		501.17	500.65		500.65		500.44	500.35		500.32	
MEAN	500.33	500.59	500.48	500.71	500.66	500.58	500.75	500.77	500.51	500.42	500.35	500.33	
MAX	500.37	501.25	500.57	501.33	501.00	500.93	501.44	501.28	500.59	500.57	500.36	500.33	501.44
MIN	500.32	500.32	500.41	500.48	500.50	500.42	500.42	500.60	500.44	500.35	500.33	500.32	500.32

ANNUAL MAX MOMENTARY GAGE HEIGHT 501.62 M (MSL), AT 24.00 HOURS, ON OCT 18, 1981
ZERO GAGE AT BOTTOM ELEVATION 500.10 M (MSL), RIVER BED 500.23 M (MSL)
LEFT BANK ELEVATION 502.68 M (MSL)
RIGHT BANK ELEVATION 505.37 M (MSL), DRAINAGE AREA 315 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.04	0.66	0.47	3.12	1.15	0.26	1.10	0.86	0.29	0.12	0.06	
2	0.06	0.04	0.54	0.47	2.00	2.14	0.26	1.00	0.82	0.26	0.12	0.06	
3	0.06	0.04	0.50	0.47	1.70	1.25	0.26	0.90	0.78	0.23	0.12	0.06	
4	0.06	0.18	0.47	0.44	2.07	1.05	0.29	1.05	0.74	0.18	0.12	0.06	
5	0.06	2.49	0.44	0.44	2.42	1.58	0.47	1.05	0.74	0.18	0.12	0.06	
6	0.06	0.70	0.38	0.44	3.40	2.35	0.58	1.05	0.70	0.18	0.12	0.06	
7	0.06	0.44	0.38	1.05	2.35	2.07	2.91	1.05	0.70	0.20	0.12	0.06	
8	0.06	0.38	0.35	1.52	1.76	1.64	2.28	2.07	0.66	0.20	0.12	0.06	
9	0.06	0.32	0.35	1.15	1.64	1.52	1.40	2.70	0.62	0.41	0.12	0.06	
10	0.06	0.23	0.29	1.25	1.00	2.91	0.95	2.35	0.58	0.70	0.12	0.06	
11	0.06	0.18	0.29	1.15	0.90	2.28	0.86	1.76	0.54	0.78	0.12	0.06	
12	0.04	0.14	0.29	1.05	0.90	1.00	1.15	1.52	0.54	0.78	0.12	0.06	
13	0.06	0.14	0.26	0.74	1.10	0.78	2.42	1.25	0.50	0.78	0.10	0.06	
14	0.06	0.12	0.26	0.54	0.90	0.70	2.00	1.46	0.44	0.66	0.10	0.06	
15	0.06	0.12	0.29	0.50	0.66	0.54	1.82	1.58	0.44	0.35	0.10	0.06	
16	0.06	0.12	0.29	1.76	0.50	0.54	1.35	3.64	0.44	0.20	0.10	0.06	
17	0.10	0.12	0.26	1.82	0.54	0.50	5.30	5.80	0.44	0.23	0.10	0.06	
18	0.08	0.74	0.23	1.25	0.50	0.50	7.40	3.72	0.78	0.23	0.10	0.06	
19	0.06	2.35	0.26	0.95	0.50	0.47	3.96	4.68	0.78	0.20	0.10	0.06	
20	0.06	1.15	0.35	0.82	0.54	0.38	2.84	3.88	0.62	0.20	0.08	0.06	
21	0.14	0.62	0.54	2.35	1.40	0.35	2.56	2.63	0.62	0.20	0.08	0.06	
22	0.06	0.47	0.62	6.30	1.64	0.32	3.72	2.28	0.58	0.32	0.08	0.04	
23	0.06	5.50	0.78	2.56	1.20	0.29	2.49	1.76	0.50	0.20	0.08	0.04	
24	0.06	4.28	0.70	1.76	1.05	0.29	2.00	1.52	0.47	0.18	0.08	0.04	
25	0.06	1.88	0.54	1.64	0.74	0.29	1.70	1.35	0.44	0.16	0.06	0.04	
26	0.06	4.20	0.50	1.70	0.62	0.29	1.64	1.25	0.44	0.12	0.06	0.04	
27	0.04	3.48	0.66	2.49	0.62	0.35	1.35	1.20	0.41	0.10	0.06	0.04	
28	0.04	1.82	0.78	4.20	0.58	0.29	1.35	1.05	0.38	0.10	0.06	0.04	
29	0.04	2.28	0.50	2.91	1.25	0.26	1.25	1.00	0.35	0.10		0.04	
30	0.04	1.20	0.50	2.98	1.15	0.26	1.20	0.95	0.35	0.10		0.04	
31		1.05		4.76	1.15		1.15		0.32	0.10		0.04	
TOTAL	1.86	36.82	13.26	51.93	39.90	28.34	59.17	58.60	17.58	8.92	2.78	1.66	320.82 CMSDAY
MEAN	0.06	1.19	0.44	1.68	1.29	0.94	1.91	1.95	0.57	0.29	0.10	0.05	0.88 CMS
MAX	0.14	5.50	0.78	6.30	3.40	2.91	7.40	5.80	0.86	0.78	0.12	0.06	7.40 CMS
MIN	0.04	0.04	0.23	0.44	0.50	0.26	0.26	0.90	0.32	0.10	0.06	0.04	0.04 CMS
RUNOFF	0.161	3.181	1.146	4.487	3.447	2.449	5.112	5.063	1.519	0.771	0.240	0.143	27.719 MCM

MOMENTARY PEAK 9.32 CMS, AT 501.62 M (MSL), AT 24.00 HOURS, ON OCT 18, 1981

RUNOFF YIELD 2.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

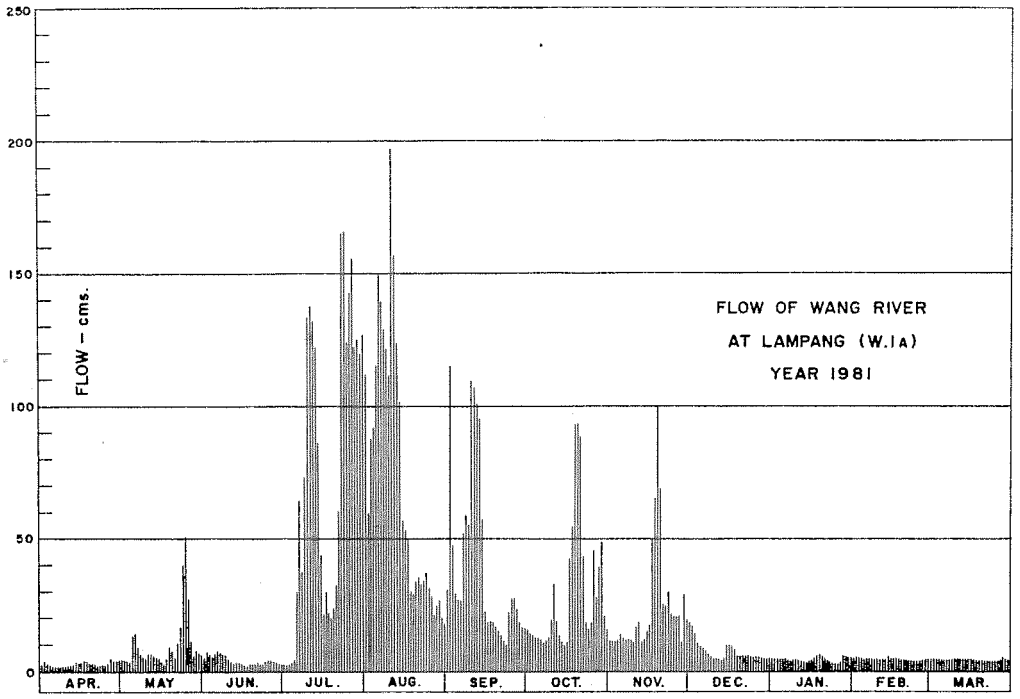
WANG RIVER AT LAMPANG, LAMPANG (W.1A)

LOCATION	LAT. 18-17-24" N., LONG. 99-29-40" E., ON LEFT BANK ABOUT 300 METERS UPSTREAM FROM KITTIKHACHON II BRIDGE, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	3,481 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+227.80 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 48 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	228.03	228.08	228.12	228.00	230.11	228.88	228.50	228.39	228.58	228.00	228.03	228.02	
2	228.07	228.08	228.22	228.00	229.40	230.14	228.46	228.38	228.55	227.99	228.05	228.04	
3	228.03	228.05	228.18	228.03	229.81	229.15	228.46	228.37	228.47	227.99	228.05	228.03	
4	228.00	228.04	228.15	228.08	229.89	228.84	228.42	228.40	228.35	227.99	228.03	228.02	
5	227.98	228.39	228.20	228.13	230.21	228.78	228.43	228.45	228.32	227.98	228.03	228.01	
6	227.97	228.45	228.23	228.71	230.53	228.78	228.41	228.41	228.28	228.00	228.04	228.01	
7	227.97	228.26	228.21	229.47	230.37	229.26	228.37	228.38	228.25	228.00	228.04	228.01	
8	227.96	228.17	228.19	229.00	230.29	229.39	228.39	228.38	228.19	227.97	228.00	228.02	
9	227.98	228.13	228.18	229.86	230.20	229.34	228.42	228.38	228.15	227.98	228.01	228.03	
10	227.99	228.12	228.08	230.35	230.11	230.08	228.61	228.36	228.12	228.01	228.00	228.02	
11	227.99	228.19	228.05	230.41	231.02	230.05	228.91	228.53	228.11	227.99	228.00	228.01	
12	227.99	228.16	228.03	230.34	230.57	229.99	228.59	228.58	228.11	227.97	228.02	228.00	
13	228.03	228.15	228.06	230.17	230.10	229.90	228.46	228.35	228.10	227.96	228.02	228.01	
14	228.06	228.13	228.05	229.43	229.90	229.43	228.36	228.40	228.28	227.96	228.06	228.03	
15	228.04	228.12	228.01	229.03	229.39	228.75	228.33	228.48	228.32	227.97	228.03	228.03	
16	228.05	228.04	227.99	228.66	229.31	228.60	228.40	228.53	228.32	227.99	228.03	228.02	
17	228.09	228.01	227.97	228.86	229.24	228.61	229.12	229.21	228.28	228.05	228.03	228.00	
18	228.06	228.12	228.00	228.67	228.85	228.59	229.37	229.49	228.25	228.10	228.01	227.98	
19	228.01	228.28	228.00	228.63	228.83	228.54	229.88	229.97	228.06	228.11	228.00	227.98	
20	228.01	228.24	228.00	228.78	228.93	228.51	229.89	229.51	228.05	228.08	227.99	227.98	
21	228.01	228.13	228.05	228.96	228.97	228.42	229.83	228.75	228.09	228.06	227.98	227.98	
22	227.98	228.34	228.00	229.62	228.92	228.34	228.94	228.75	228.07	228.04	227.98	227.97	
23	228.01	228.52	228.01	230.70	228.95	228.32	228.57	228.86	228.09	227.99	227.98	227.96	
24	228.01	228.97	228.07	230.71	229.01	228.67	228.52	228.67	228.06	227.97	227.97	227.96	
25	227.99	229.25	228.07	230.26	228.90	228.80	228.60	228.64	228.05	227.96	227.97	227.95	
26	228.04	228.78	228.07	230.46	228.82	228.81	229.17	228.64	228.06	227.97	227.98	227.95	
27	228.12	228.35	228.06	230.60	228.63	228.67	228.80	228.65	228.05	227.97	228.00	227.99	
28	228.08	228.15	228.04	230.23	228.74	228.56	229.07	228.38	228.03	228.08	228.01	228.05	
29	228.07	228.25	228.03	230.26	228.78	228.53	229.23	228.82	228.01	228.05		228.03	
30	228.09	228.19	228.01	230.20	228.63	228.52	228.75	228.62	227.98	228.03		228.02	
31		228.17		230.28	228.57		228.54		227.99	228.01		228.02	
MEAN	228.02	228.27	228.08	229.45	229.48	228.97	228.77	228.66	228.18	228.01	228.01	228.00	
MAX	228.12	229.25	228.23	230.71	231.02	230.14	229.89	229.97	228.58	228.11	228.06	228.05	231.02
MIN	227.96	228.01	227.97	228.00	228.57	228.32	228.33	228.35	227.98	227.96	227.97	227.95	227.95

ANNUAL MAX MOMENTARY GAGE HEIGHT 231.32 M (MSL), AT 15.00 HOURS, ON AUG 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 227.80 M (MSL), RIVER BED 226.99 M (MSL)
LEFT BANK ELEVATION 232.98 M (MSL)
RIGHT BANK ELEVATION 232.37 M (MSL), DRAINAGE AREA 3480 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.64	3.54	4.40	2.10	111.62	30.78	15.20	11.51	18.08	4.30	4.78	4.62	
2	3.36	3.54	6.90	2.10	59.00	114.25	13.84	11.22	17.00	4.17	5.10	4.94	
3	2.64	3.00	5.90	2.64	86.80	44.37	13.84	10.93	14.18	4.17	5.10	4.78	
4	2.10	2.82	5.15	3.54	93.20	28.94	12.48	11.80	10.35	4.17	4.78	4.62	
5	1.88	11.51	6.40	4.65	120.37	26.24	12.82	13.50	9.48	4.04	4.78	4.46	
6	1.77	13.50	7.15	23.23	148.85	26.24	12.14	12.14	8.40	4.30	4.94	4.46	
7	1.77	7.90	6.65	63.55	134.37	50.70	10.93	11.22	7.65	4.30	4.94	4.46	
8	1.66	5.65	6.15	36.50	127.37	58.40	11.51	11.22	6.15	3.91	4.30	4.62	
9	1.88	4.65	5.90	90.80	119.50	55.40	12.48	11.22	5.15	4.04	4.46	4.78	
10	1.99	4.40	3.54	132.62	111.62	109.00	19.20	10.64	4.40	4.46	4.30	4.62	
11	1.99	6.15	3.00	137.90	196.65	106.37	32.18	16.28	4.15	4.17	4.30	4.46	
12	1.99	5.40	2.64	131.75	152.65	101.20	18.44	18.08	4.15	3.91	4.62	4.30	
13	2.64	5.15	3.18	116.87	110.75	94.00	13.84	10.35	3.90	3.78	4.62	4.46	
14	3.18	4.65	3.00	60.95	94.00	60.95	10.64	11.80	8.40	3.78	5.26	4.78	
15	2.82	4.40	2.28	38.00	58.40	24.95	9.77	14.52	9.90	3.91	4.78	4.78	
16	3.00	2.82	1.99	21.20	53.60	18.80	11.80	16.28	9.90	4.17	4.78	4.62	
17	3.72	2.28	1.77	29.86	49.55	19.20	42.65	47.82	9.10	5.10	4.78	4.30	
18	3.18	4.40	2.10	21.60	29.40	18.44	57.20	64.85	8.50	5.90	4.46	4.04	
19	2.28	8.40	2.10	20.00	28.48	16.64	92.40	99.60	5.26	6.06	4.30	4.04	
20	2.28	7.40	2.10	26.24	33.14	15.56	93.20	66.15	5.10	5.58	4.17	4.04	
21	2.28	4.65	3.00	34.58	35.06	12.48	88.40	24.95	5.74	5.26	4.04	4.04	
22	1.88	10.06	2.10	73.40	32.66	10.06	33.62	24.95	5.42	4.94	4.04	3.91	
23	2.28	15.92	2.28	165.00	34.10	9.48	17.72	29.86	5.74	4.17	4.04	3.78	
24	2.28	35.06	3.36	165.97	37.00	21.60	15.92	21.60	5.26	3.91	3.91	3.78	
25	1.99	50.12	3.36	124.75	31.70	27.10	18.80	20.40	5.10	3.78	3.91	3.65	
26	2.82	26.24	3.36	142.40	28.02	27.56	45.53	20.40	5.26	3.91	4.04	3.65	
27	4.40	10.35	3.18	155.50	20.00	21.60	27.10	20.80	5.10	3.91	4.30	4.17	
28	3.54	5.15	2.82	122.12	24.52	17.36	40.00	11.22	4.78	5.58	4.46	5.10	
29	3.36	7.65	2.64	124.75	26.24	16.28	48.97	28.02	4.46	5.10		4.78	
30	3.72	6.15	2.28	119.50	20.00	15.92	24.95	19.60	4.04	4.78		4.62	
31		5.65		126.50	17.72		16.64		4.17	4.46		4.62	
TOTAL	77.32	288.56	110.68	2320.57	2226.34	1199.87	894.21	702.93	224.27	138.02	126.29	136.28	8445.33 CMSDAY
MEAN	2.58	9.31	3.69	74.86	71.82	40.00	28.85	23.43	7.23	4.45	4.51	4.40	23.14 CMS
MAX	4.40	50.12	7.15	165.97	196.65	114.25	93.20	99.60	18.08	6.06	5.26	5.10	196.65 CMS
MIN	1.66	2.28	1.77	2.10	17.72	9.48	9.77	10.35	3.90	3.78	3.91	3.65	1.66 CMS
RUNOFF	6.680	24.932	9.563	200.497	192.355	103.669	77.260	60.733	19.377	11.925	10.911	11.775	729.676 MCM

MOMENTARY PEAK 227.90 CMS, AT 231.32 M (MSL), AT 15.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 6.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 65.49 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

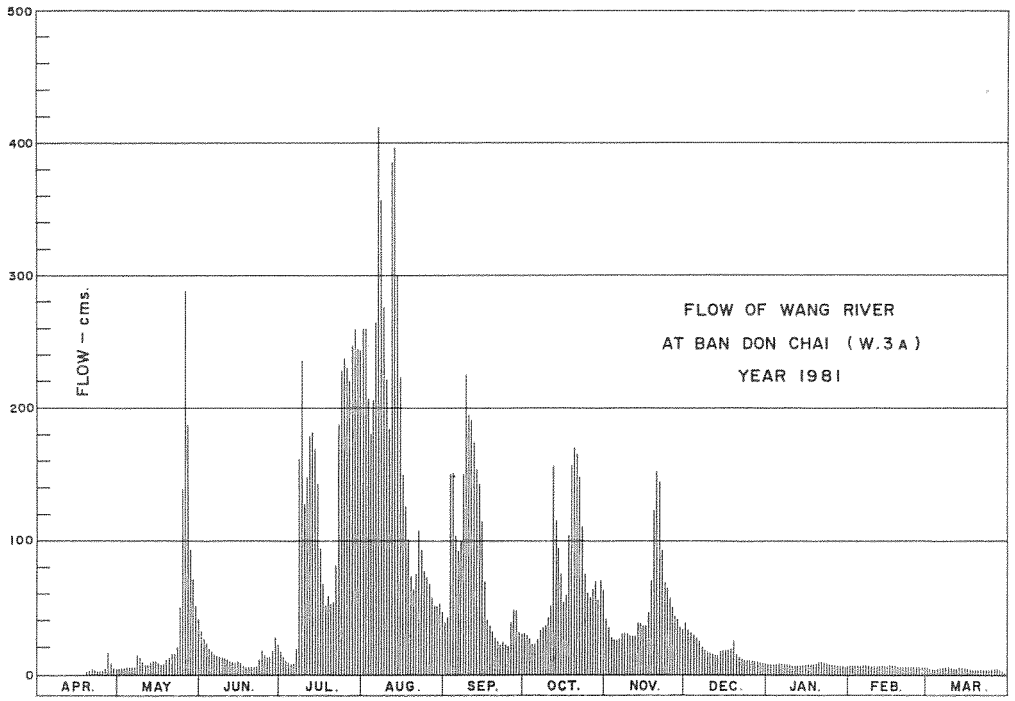
WANG RIVER AT BAN DON CHAI, LAMPANG (W.3A)

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 AT	+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 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 22 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	161.62	162.15	161.95	164.00	162.25	162.15	162.19	162.14	161.61	161.60	161.55	
2	*******	161.62	162.06	161.84	164.00	162.30	162.13	162.06	162.06	161.60	161.59	161.52	
3	*******	161.64	162.00	161.77	163.64	163.29	162.11	161.97	162.02	161.60	161.59	161.53	
4	*******	161.67	161.97	161.72	163.52	163.31	162.01	161.95	162.00	161.62	161.59	161.52	
5	*******	161.69	161.91	161.71	163.77	162.94	162.01	161.94	161.97	161.62	161.59	161.53	
6	*******	161.68	161.86	161.73	164.07	162.82	162.06	161.95	161.91	161.62	161.60	161.55	
7	*******	161.67	161.84	161.79	164.83	162.89	162.14	162.02	161.86	161.61	161.59	161.55	
8	*******	161.86	161.83	163.34	164.33	163.33	162.20	162.02	161.82	161.58	161.59	161.55	
9	*******	161.80	161.81	163.86	163.95	163.80	162.20	162.02	161.80	161.58	161.58	161.56	
10	*******	161.73	161.80	163.14	163.76	163.60	162.28	162.00	161.78	161.57	161.57	161.55	
11	*******	161.71	161.80	163.29	163.54	163.57	162.30	162.00	161.77	161.57	161.56	161.53	
12	*******	161.72	161.76	163.50	164.68	163.46	163.25	162.00	161.76	161.59	161.56	161.53	
13	*******	161.76	161.75	163.51	164.75	163.33	162.94	162.13	161.75	161.59	161.56	161.54	
14	*******	161.78	161.76	163.41	164.05	163.24	162.70	162.14	161.80	161.59	161.58	161.54	
15	*******	161.76	161.76	163.09	163.70	163.01	162.47	162.10	161.81	161.60	161.57	161.53	
16	*******	161.74	161.72	162.80	163.31	162.58	162.32	162.10	161.81	161.60	161.58	161.52	
17	*******	161.72	161.69	162.56	163.03	162.29	162.40	162.20	161.82	161.60	161.58	161.52	
18	*******	161.74	161.68	162.42	162.87	162.21	162.86	162.50	161.82	161.60	161.57	161.52	
19	161.57	161.80	161.66	162.48	162.63	162.15	163.25	163.01	161.94	161.61	161.56	161.52	
20	161.58	161.82	161.67	162.42	162.53	162.08	163.35	163.22	161.77	161.64	161.56	161.54	
21	161.59	161.88	161.67	162.44	162.70	162.05	163.30	163.16	161.70	161.64	161.56	161.52	
22	161.60	161.88	161.68	162.75	162.96	162.02	163.20	162.69	161.68	161.63	161.56	161.50	
23	161.58	161.99	161.80	163.55	162.86	162.03	162.87	162.46	161.68	161.61	161.57	161.51	
24	161.57	162.48	161.93	163.81	162.68	162.00	162.51	162.43	161.68	161.61	161.57	161.51	
25	161.57	163.90	161.85	163.87	162.64	161.99	162.39	162.31	161.68	161.60	161.57	161.52	
26	161.62	164.17	161.84	163.82	162.58	162.24	162.35	162.23	161.67	161.59	161.57	161.52	
27	161.90	163.32	161.85	163.75	162.46	162.38	162.44	162.19	161.65	161.58	161.57	161.53	
28	161.70	162.78	161.93	163.93	162.40	162.37	162.48	162.16	161.64	161.57	161.57	161.52	
29	161.61	162.62	162.09	164.00	162.40	162.17	162.34	162.10	161.63	161.58		161.51	
30	161.63	162.40	162.01	163.91	162.43	162.14	162.49	162.04	161.63	161.57		161.46	
31		162.27		163.91	162.34		162.42		161.62	161.59		161.43	
MEAN	*******	162.07	161.84	162.97	163.34	162.66	162.51	162.24	161.80	161.60	161.58	161.52	
MAX	161.90	164.17	162.15	164.00	164.83	163.80	163.35	163.22	162.14	161.64	161.60	161.56	164.83
MIN	*******	161.62	161.66	161.71	162.34	161.99	162.01	161.94	161.62	161.57	161.56	161.43	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 165.28 M (MSL), AT 23.00 HOURS, ON AUG 12, 1981
ZERO GAGE AT BOTTOM ELEVATION 161.00 M (MSL), RIVER BED 160.58 M (MSL)
LEFT BANK ELEVATION 171.25 M (MSL)
RIGHT BANK ELEVATION 171.21 M (MSL), DRAINAGE AREA 8985 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	3.1	31.5	18.5	259.0	38.8	31.5	43.7	39.7	7.5	7.0	5.0	
2	*******	3.1	25.4	12.5	259.0	42.5	30.1	33.7	33.7	7.0	6.6	3.8	
3	*******	3.8	21.5	9.2	199.9	149.1	28.7	27.5	30.9	7.0	6.6	4.2	
4	*******	4.9	19.7	6.9	181.5	151.9	22.1	26.2	29.5	7.9	6.6	3.8	
5	*******	5.6	16.1	6.5	220.7	105.3	22.1	25.6	27.5	7.9	6.6	4.2	
6	*******	5.3	13.5	7.3	270.9	92.1	25.4	26.2	23.6	7.9	7.0	5.0	
7	*******	4.9	12.5	10.0	411.0	99.4	30.8	30.9	20.6	7.5	6.6	5.0	
8	*******	13.5	12.0	155.9	316.4	154.5	35.0	30.9	18.2	6.2	6.6	5.0	
9	*******	10.5	11.0	235.4	250.5	225.5	35.0	30.9	17.0	6.2	6.2	5.4	
10	*******	7.3	10.5	129.5	219.1	193.5	41.0	29.5	15.9	5.8	5.8	5.0	
11	*******	6.5	10.5	149.1	184.5	189.0	42.5	29.5	15.4	5.8	5.4	4.2	
12	*******	6.9	8.7	178.5	382.2	172.7	156.5	29.5	14.8	6.6	5.4	4.2	
13	*******	8.7	8.3	180.0	395.5	154.5	117.8	38.9	14.3	6.6	5.4	4.6	
14	*******	9.6	8.7	165.4	267.5	142.4	91.0	39.7	17.0	6.6	6.2	4.6	
15	*******	8.7	8.7	123.3	209.5	113.7	68.1	36.5	17.6	7.0	5.8	4.2	
16	*******	7.8	6.9	90.0	151.9	67.7	54.7	36.5	17.6	7.0	6.2	3.8	
17	*******	6.9	5.6	65.8	116.1	41.7	61.5	44.5	18.2	7.0	6.2	3.8	
18	*******	7.8	5.3	52.8	97.4	35.8	108.6	71.0	18.2	7.0	5.8	3.8	
19	1.7	10.5	4.6	58.4	72.3	31.5	156.5	126.2	25.6	7.5	5.4	3.8	
20	1.9	11.5	4.9	52.8	63.0	26.7	170.0	152.6	15.4	8.8	5.4	4.6	
21	2.2	14.5	4.9	54.7	79.0	24.7	163.0	144.8	11.5	8.8	5.4	3.8	
22	2.4	14.5	5.3	84.5	107.7	22.8	150.0	90.0	10.6	8.3	5.4	3.0	
23	1.9	20.9	10.5	186.0	96.3	23.5	109.7	67.2	10.6	7.5	5.8	3.4	
24	1.7	58.4	17.3	227.2	77.1	21.5	72.0	64.3	10.6	7.5	5.8	3.4	
25	1.7	242.0	13.0	237.1	73.3	20.9	60.6	53.9	10.6	7.0	5.8	3.8	
26	3.1	287.9	12.5	228.8	67.7	38.0	57.2	47.0	10.2	6.6	5.8	3.8	
27	15.5	153.2	13.0	217.5	56.6	49.3	65.3	43.7	9.3	6.2	5.8	4.2	
28	6.0	87.8	17.3	247.1	51.0	48.5	69.1	41.3	8.8	5.8	5.8	3.8	
29	2.8	71.4	27.4	259.0	51.0	32.9	56.4	36.5	8.3	6.2		3.4	
30	3.5	51.0	22.1	243.7	53.8	30.8	70.0	32.3	8.3	5.8		1.8	
31		40.3		243.7	45.9		63.4		7.9	6.6		0.9	
TOTAL	*******	1188.8	389.2	3937.1	5287.3	2541.2	2265.6	1531.0	537.4	217.1	168.4	123.3	******** CMSDAY
MEAN	*******	38.3	13.0	127.0	170.6	84.7	73.1	51.0	17.3	7.0	6.0	4.0	******* CMS
MAX	15.5	287.9	31.5	259.0	411.0	225.5	170.0	152.6	39.7	8.8	7.0	5.4	411.0 CMS
MIN	*******	3.1	4.6	6.5	45.9	20.9	27.1	25.6	7.9	5.8	5.4	0.9	******* CMS
RUNOFF	*******	102.71	33.63	340.17	456.82	219.56	195.75	132.28	46.43	18.76	14.55	10.65	******** MCM

MOMENTARY PEAK 501.50 CMS, AT 165.28 M (MSL), AT 23.00 HOURS, ON AUG 12, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 55.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

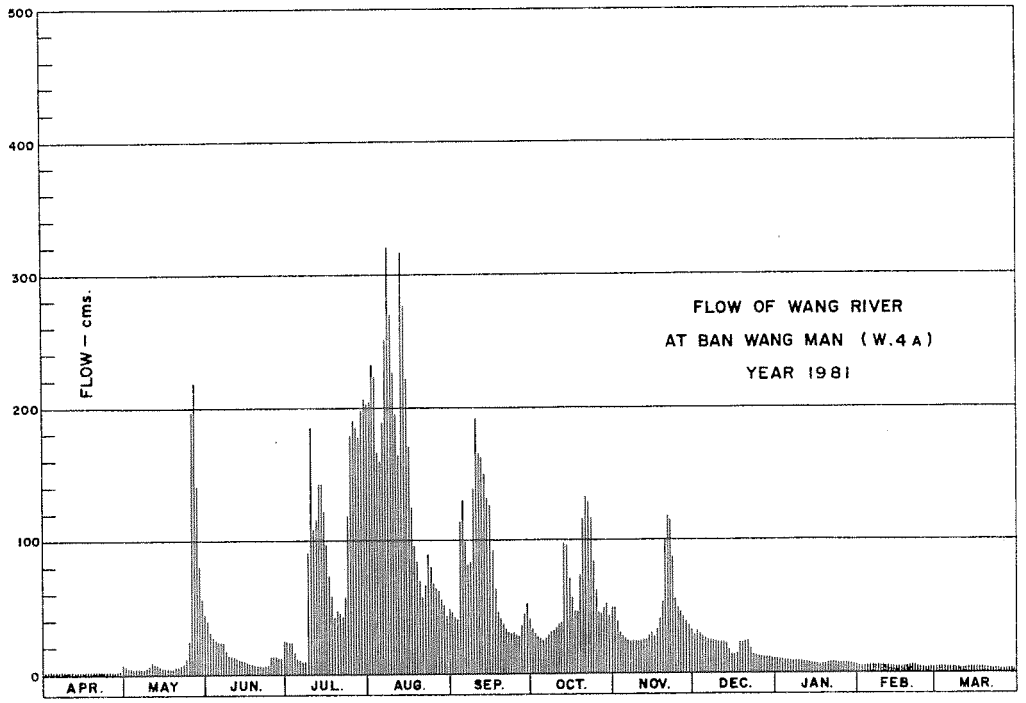
WANG RIVER AT BAN WANG MAN, TAK (W.4A)

LOCATION	LAT. 17°-12'-22" N., LONG. 99°-06'-08" E., ON RIGHT BANK ABOUT 200 METERS UPSTREAM FROM WANG MAN BRIDGE, AMPHOE SAM NGAO, TAK.
DRAINAGE AREA	10,507 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1981. UPSTREAM STATE DIVERSIONS FOR IRRIGATION OF ABOUT 12,320 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	130.75	130.85	132.05	131.59	134.48	132.28	131.94	132.33	131.82	131.20	131.03	130.94	
2	130.78	130.84	131.88	131.53	134.73	132.15	131.83	132.04	131.93	131.19	131.03	130.94	
3	130.77	130.80	131.75	131.42	134.63	132.13	131.79	131.91	131.85	131.17	131.03	130.94	
4	130.77	130.81	131.64	131.31	134.10	133.39	131.75	131.83	131.80	131.16	131.03	130.95	
5	130.77	130.84	131.56	131.22	134.02	133.66	131.72	131.75	131.75	131.16	131.03	130.95	
6	130.77	130.84	131.50	131.18	134.39	133.15	131.76	131.71	131.71	131.15	131.03	130.96	
7	130.76	130.84	131.42	131.16	134.91	132.96	131.85	131.65	131.64	131.15	131.03	130.96	
8	130.75	130.88	131.38	131.16	135.49	133.01	131.91	131.69	131.57	131.15	131.04	130.96	
9	130.73	130.89	131.33	132.84	135.00	133.65	131.93	131.70	131.51	131.14	131.04	130.94	
10	130.73	131.07	131.32	134.28	134.59	134.35	131.96	131.69	131.47	131.12	131.03	130.93	
11	130.73	131.11	131.28	133.40	134.32	134.11	132.08	131.73	131.44	131.11	131.03	130.92	
12	130.72	131.04	131.25	133.49	134.05	134.02	132.07	131.75	131.43	131.09	131.01	130.92	
13	130.77	130.99	131.22	133.82	135.45	133.91	133.23	131.74	131.41	131.09	131.00	130.92	
14	130.76	130.94	131.19	133.83	135.34	133.72	133.19	131.80	131.38	131.09	131.00	130.92	
15	130.77	130.91	131.18	133.64	134.63	133.59	132.75	131.86	131.37	131.10	130.98	130.93	
16	130.76	130.91	131.17	133.23	134.14	133.21	132.44	131.78	131.37	131.08	130.97	130.93	
17	130.75	130.90	131.12	132.79	133.57	132.70	132.25	131.92	131.39	131.07	130.98	130.93	
18	130.74	130.90	131.10	132.45	133.18	132.28	132.29	132.14	131.45	131.05	130.99	130.93	
19	130.74	130.92	131.09	132.21	132.95	132.11	132.82	132.43	131.45	131.06	131.00	130.93	
20	130.73	130.93	131.07	132.28	132.67	132.04	133.48	133.15	131.52	131.07	131.00	130.94	
21	130.73	130.97	131.04	132.19	132.49	131.95	133.69	133.52	131.54	131.08	131.01	130.93	
22	130.71	131.00	131.03	132.20	132.66	131.90	133.63	133.48	131.38	131.10	131.01	130.93	
23	130.71	131.09	131.05	132.53	133.06	131.86	133.49	132.88	131.32	131.10	130.99	130.90	
24	130.71	131.30	131.05	133.74	133.00	131.87	133.06	132.48	131.30	131.09	130.99	130.88	
25	130.71	131.78	131.31	134.22	132.71	131.85	132.54	132.37	131.29	131.08	130.97	130.89	
26	130.72	134.10	131.34	134.33	132.64	131.79	132.30	132.27	131.28	131.08	130.95	130.88	
27	130.75	134.60	131.30	134.29	132.61	132.00	132.21	132.15	131.27	131.08	130.95	130.87	
28	130.77	133.59	131.30	134.21	132.47	132.25	132.27	132.08	131.25	131.07	130.94	130.87	
29	131.04	132.86	131.33	134.46	132.31	132.38	132.40	132.02	131.25	131.05		130.88	
30	130.96	132.56	131.53	134.50	132.18	132.11	132.19	131.94	131.24	131.04		130.88	
31		132.23		134.46	132.34		132.34		131.22	131.03		130.88	
MEAN	130.76	131.43	131.33	132.90	133.71	132.75	132.42	132.13	131.47	131.10	131.00	130.92	
MAX	131.04	134.60	132.05	134.50	135.49	134.35	133.69	133.52	131.93	131.20	131.04	130.96	135.49
MIN	130.71	130.80	131.03	131.16	132.18	131.79	131.72	131.65	131.22	131.03	130.94	130.87	130.71

ANNUAL MAX MOMENTARY GAGE HEIGHT 135.71 M (MSL), AT 18.00 HOURS, ON AUG 13, 1981
ZERO GAGE AT BOTTOM ELEVATION 130.00 M (MSL), RIVER BED 130.00 M (MSL)
LEFT BANK ELEVATION 136.01 M (MSL)
RIGHT BANK ELEVATION 135.90 M (MSL) DRAINAGE AREA 10507 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.6	2.8	37.3	24.0	204.4	46.9	33.0	49.1	28.5	9.6	5.9	4.2	
2	1.9	2.7	30.7	23.8	230.8	41.5	28.8	36.9	32.6	9.4	5.9	4.2	
3	1.8	2.1	26.0	23.5	220.1	40.6	27.4	31.9	29.6	8.9	5.9	4.2	
4	1.8	2.2	24.1	12.5	166.5	108.8	26.0	28.8	27.7	8.7	5.9	4.4	
5	1.8	2.7	23.9	10.1	159.3	128.8	25.0	26.0	26.0	8.7	5.9	4.4	
6	1.8	2.7	23.7	9.1	195.0	92.8	26.3	24.6	24.6	8.5	5.9	4.6	
7	1.7	2.7	23.5	8.7	251.1	81.2	29.6	24.2	24.1	8.5	5.9	4.6	
8	1.6	3.2	14.3	8.7	319.8	84.1	31.9	24.3	23.9	8.5	6.1	4.6	
9	1.4	3.4	13.0	74.6	261.5	128.0	32.6	24.3	23.7	8.2	6.1	4.2	
10	1.4	6.7	12.7	184.0	216.0	191.0	33.8	24.3	23.6	7.8	5.9	4.0	
11	1.4	7.5	11.7	109.5	188.0	167.5	37.8	25.3	23.5	7.5	5.9	3.9	
12	1.3	6.1	10.9	115.8	162.0	159.3	38.2	26.0	23.5	7.1	5.5	3.9	
13	1.8	5.1	10.1	141.7	315.0	149.4	97.9	25.7	23.4	7.1	5.3	3.9	
14	1.7	4.2	9.4	142.5	301.8	133.6	95.3	27.7	14.3	7.1	5.3	3.9	
15	1.8	3.7	9.1	127.2	220.1	123.3	69.7	30.0	14.0	7.3	4.9	4.0	
16	1.7	3.7	8.9	97.9	170.3	96.7	54.2	27.0	14.0	6.9	4.8	4.0	
17	1.6	3.5	7.8	71.9	121.7	67.0	45.6	32.3	14.5	6.7	4.9	4.0	
18	1.5	3.5	7.3	54.6	94.7	46.9	47.3	41.0	23.6	6.3	5.1	4.0	
19	1.5	3.9	7.1	43.9	80.6	39.8	73.5	53.7	23.6	6.5	5.3	4.0	
20	1.4	4.0	6.7	46.9	65.5	36.9	115.1	92.8	23.8	6.7	5.3	4.2	
21	1.4	4.8	6.1	43.1	56.5	33.4	131.2	118.0	23.8	6.9	5.5	4.0	
22	1.2	5.3	5.9	43.5	65.0	31.5	126.4	115.1	14.3	7.3	5.5	4.0	
23	1.2	7.1	6.3	58.5	87.1	30.0	115.8	76.7	12.7	7.3	5.1	3.5	
24	1.2	12.2	6.3	135.2	83.5	30.4	87.1	56.1	12.2	7.1	5.1	3.2	
25	1.2	27.0	12.5	178.0	67.5	29.6	59.0	50.9	11.9	6.9	4.8	3.4	
26	1.3	166.5	13.2	189.0	63.9	27.4	47.7	46.4	11.7	6.9	4.4	3.2	
27	1.6	217.0	12.2	185.0	62.4	35.3	43.9	41.5	11.4	6.9	4.4	3.1	
28	1.8	123.3	12.2	177.0	55.6	45.0	46.4	38.6	10.9	6.7	4.2	3.1	
29	6.1	75.6	13.0	202.3	48.2	51.4	52.3	36.1	10.9	6.3		3.2	
30	4.6	59.9	23.8	206.5	42.7	39.8	43.1	33.0	10.6	6.1		3.2	
31		44.8		202.3	49.5		49.5		10.1	5.9		3.2	
TOTAL	54.1	819.9	429.7	2951.3	4626.1	2318.5	1771.4	1288.3	603.0	230.3	150.7	120.3	15363.6 CMSDAY
MEAN	1.8	26.4	14.3	95.2	149.2	77.3	57.1	42.9	19.5	7.4	5.4	3.9	42.1 CMS
MAX	6.1	217.0	37.3	206.5	319.8	191.0	131.2	118.0	32.6	9.6	6.1	4.6	319.8 CMS
MIN	1.2	2.1	5.9	8.7	42.7	27.4	25.0	24.2	10.1	5.9	4.2	3.1	1.2 CMS
RUNOFF	4.67	70.84	37.13	254.99	399.69	200.32	153.05	111.31	52.10	19.90	13.02	10.39	1327.41 MCM

MOMENTARY PEAK 346.80 CMS, AT 135.71 M (MSL), AT 18.00 HOURS, ON AUG 13, 1981

RUNOFF YIELD 4.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 33.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

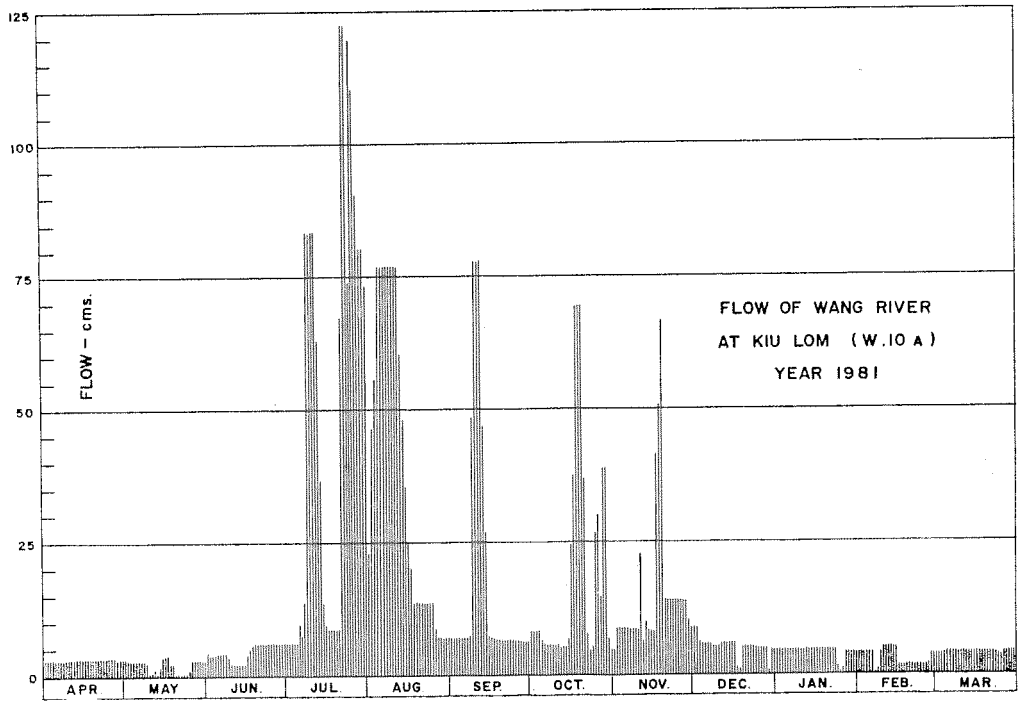
WANG RIVER AT KIU LOM, LAMPANG (W.10A)

LOCATION	LAT. 18-31-16 N., LONG. 99-37-52 E., ON LEFT BANK ABOUT 800 METERS DOWNSTREAM FROM KIU LOM DAMSITE, AMPHOE MUANG, LAMPANG.
DRAINAGE AREA	2,798 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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 TO 1980
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO 1980
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY KIU LOM DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	258.97	258.96	259.00	259.05	260.16	259.08	259.11	259.01	259.13	259.01	259.00	258.98	
2	258.97	258.96	258.99	259.05	259.48	259.08	259.11	259.13	259.13	259.01	259.00	258.98	
3	258.97	258.95	258.99	259.05	259.75	259.08	259.11	259.13	259.07	259.01	259.00	258.98	
4	258.97	258.95	258.99	259.05	260.06	259.08	259.11	259.13	259.04	259.01	259.00	258.98	
5	258.97	258.95	259.00	259.05	260.06	259.08	259.06	259.13	259.04	259.01	259.00	259.00	
6	258.97	258.95	259.00	259.14	260.36	259.08	259.04	259.13	259.04	259.01	259.00	259.00	
7	258.97	258.95	259.00	259.09	260.36	259.08	259.04	259.13	259.04	259.01	258.81	259.00	
8	258.97	258.95	259.00	259.27	260.36	259.08	259.04	259.13	259.03	259.01	258.81	259.00	
9	258.97	258.95	258.97	260.44	260.36	259.94	259.04	259.13	259.03	259.01	259.00	259.00	
10	258.97	258.78	258.94	260.44	260.36	260.37	259.04	259.13	259.03	259.01	259.03	259.00	
11	258.97	258.77	258.94	260.44	260.36	260.37	259.04	259.47	259.03	259.01	259.03	259.00	
12	258.97	258.90	258.94	260.44	260.36	260.37	259.03	259.06	259.05	259.01	259.03	259.00	
13	258.97	258.78	258.94	259.99	260.13	259.86	259.03	259.15	259.05	259.01	259.03	259.00	
14	258.97	258.78	258.94	259.56	259.89	259.54	259.03	259.11	259.04	259.01	259.03	259.00	
15	258.97	258.98	258.94	259.24	259.66	259.07	259.08	259.11	259.05	259.01	259.03	259.00	
16	258.97	258.98	258.99	259.13	259.53	259.07	259.48	259.11	259.05	259.01	258.92	259.00	
17	258.97	258.98	259.02	259.13	259.39	259.07	259.67	259.83	258.85	259.01	258.92	259.00	
18	258.97	258.93	259.04	259.13	259.26	259.06	260.26	259.95	258.75	259.01	258.92	259.00	
19	258.97	258.93	259.05	259.13	259.26	259.06	260.26	260.22	259.03	259.01	258.92	259.00	
20	258.97	258.78	259.05	259.13	259.26	259.06	260.26	259.27	259.03	259.01	258.92	259.00	
21	258.97	258.78	259.05	259.13	259.26	259.06	259.61	259.27	259.03	259.01	258.92	259.00	
22	258.97	258.77	259.05	260.11	259.26	259.06	259.10	259.27	259.03	259.01	258.92	259.00	
23	258.97	258.77	259.05	260.88	259.26	259.06	259.01	259.27	259.03	259.01	258.92	258.99	
24	258.97	258.77	259.05	260.88	259.26	259.06	259.03	259.27	259.02	258.93	258.92	258.99	
25	258.97	258.77	259.05	260.32	259.26	259.06	259.55	259.27	259.02	258.77	258.92	258.98	
26	258.97	258.96	259.05	260.85	259.14	259.06	259.62	259.27	259.02	258.77	258.92	259.00	
27	258.97	258.96	259.05	260.55	259.08	259.06	259.29	259.26	259.02	259.00	258.92	259.00	
28	258.96	258.96	259.05	260.40	259.08	259.06	259.79	259.26	259.02	259.00	258.98	259.00	
29	258.96	258.96	259.05	260.40	259.08	259.06	259.79	259.17	259.07	259.00		259.00	
30	258.96	258.96	259.05	260.40	259.08	259.06	259.07	259.13	259.01	259.00		259.00	
31		258.96		260.40	259.08		259.01		259.01	259.00		259.00	
MEAN	258.97	258.90	259.01	259.78	259.65	259.27	259.31	259.26	259.02	259.99	258.96	259.00	
MAX	258.97	258.98	259.05	260.88	260.36	260.37	260.26	260.22	259.13	259.01	259.03	259.00	260.88
MIN	258.96	258.77	258.94	259.05	259.08	259.06	259.01	259.01	258.75	258.77	258.81	258.98	258.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 260.88 M (MSL), AT 15.00 HOURS, ON JUL 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 258.96 M (MSL), RIVER BED 258.01 M (MSL)
LEFT BANK ELEVATION 270.32 M (MSL)
RIGHT BANK ELEVATION 270.27 M (MSL), DRAINAGE AREA 2798 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.34	3.03	4.30	6.05	62.40	7.10	8.15	4.65	8.85	4.65	4.30	3.66	
2	3.34	3.03	3.98	6.05	23.04	7.10	8.15	8.85	8.85	4.65	4.30	3.66	
3	3.34	2.71	3.98	6.05	36.75	7.10	8.15	8.85	6.75	4.65	4.30	3.66	
4	3.34	2.71	3.98	6.05	55.90	7.10	8.15	8.85	5.70	4.65	4.30	3.66	
5	3.34	2.71	4.30	6.05	55.90	7.10	6.40	8.85	5.70	4.65	4.30	4.30	
6	3.34	2.71	4.30	9.20	76.79	7.10	5.70	8.85	5.70	4.65	4.30	4.30	
7	3.34	2.71	4.30	7.45	76.79	7.10	5.70	8.85	5.70	4.65	0.26	4.30	
8	3.34	2.71	4.30	13.96	76.79	7.10	5.70	8.85	5.35	4.65	0.26	4.30	
9	3.34	2.71	3.34	83.20	76.79	48.10	5.70	8.85	5.35	4.65	4.30	4.30	
10	3.34	0.13	2.39	83.20	76.79	77.60	5.70	8.85	5.35	4.65	5.35	4.30	
11	3.34	0.11	2.39	83.20	76.79	77.60	5.70	22.56	5.35	4.65	5.35	4.30	
12	3.34	1.12	2.39	83.20	76.79	77.60	5.35	6.40	6.05	4.65	5.35	4.30	
13	3.34	0.13	2.39	51.35	60.45	43.10	5.35	9.55	6.05	4.65	5.35	4.30	
14	3.34	0.13	2.39	27.00	44.90	26.00	5.35	8.15	6.05	4.65	5.35	4.30	
15	3.34	3.66	2.39	12.82	32.00	6.75	7.10	8.15	6.05	4.65	5.35	4.30	
16	3.34	3.66	3.98	8.85	25.50	6.75	23.04	8.15	6.05	4.65	1.75	4.30	
17	3.34	3.66	5.00	8.85	18.79	6.75	32.50	41.30	0.64	4.65	1.75	4.30	
18	3.34	2.07	5.70	8.85	13.58	6.40	69.20	48.75	0.08	4.65	1.75	4.30	
19	3.34	2.07	6.05	8.85	13.58	6.40	69.20	66.40	5.35	4.65	1.75	4.30	
20	3.34	0.13	6.05	8.85	13.58	6.40	69.20	13.96	5.35	4.65	1.75	4.30	
21	3.34	0.13	6.05	8.85	13.58	6.40	29.50	13.96	5.35	4.65	1.75	4.30	
22	3.34	0.11	6.05	59.15	13.58	6.40	7.80	13.96	5.35	4.65	1.75	4.30	
23	3.34	0.11	6.05	122.10	13.58	6.40	4.65	13.96	5.35	4.65	1.75	3.98	
24	3.34	0.11	6.05	122.10	13.58	6.40	5.35	13.96	5.00	2.07	1.75	3.98	
25	3.34	0.11	6.05	73.60	13.58	6.40	26.50	13.96	5.00	0.11	1.75	3.66	
26	3.34	3.03	6.05	119.25	9.20	6.40	30.00	13.96	5.00	0.11	1.75	4.30	
27	3.34	3.03	6.05	92.24	7.10	6.40	14.72	13.58	5.00	4.30	1.75	4.30	
28	3.03	3.03	6.05	79.99	7.10	6.40	38.95	13.58	5.00	4.30	3.66	4.30	
29	3.03	3.03	6.05	79.99	7.10	6.40	38.95	10.25	0.83	4.30		4.30	
30	3.03	3.03	6.05	79.99	7.10	6.40	6.75	8.85	4.65	4.30		4.30	
31		3.03		79.99	7.10		4.65		4.65	4.30		4.30	
TOTAL	99.27	60.65	138.40	1446.33	1106.50	510.25	567.31	447.69	161.50	130.74	87.38	129.46	4885.47 CMSDAY
MEAN	3.31	1.96	4.61	46.66	35.69	17.01	18.30	14.92	5.21	4.22	3.12	4.18	13.38 CMS
MAX	3.34	3.66	6.05	122.10	76.79	77.60	69.20	66.40	8.85	4.65	5.35	4.30	122.10 CMS
MIN	3.03	0.11	2.39	6.05	7.10	6.40	4.65	4.65	0.08	0.11	0.26	3.66	0.08 CMS
RUNOFF	8.577	5.240	11.958	124.963	95.601	44.086	49.016	38.680	13.954	11.296	7.550	11.185	422.105 MCM

MOMENTARY PEAK 122.10 CMS, AT 260.88 M (MSL), AT 15.00 HOURS, ON JUL 22, 1981

RUNOFF YIELD 4.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

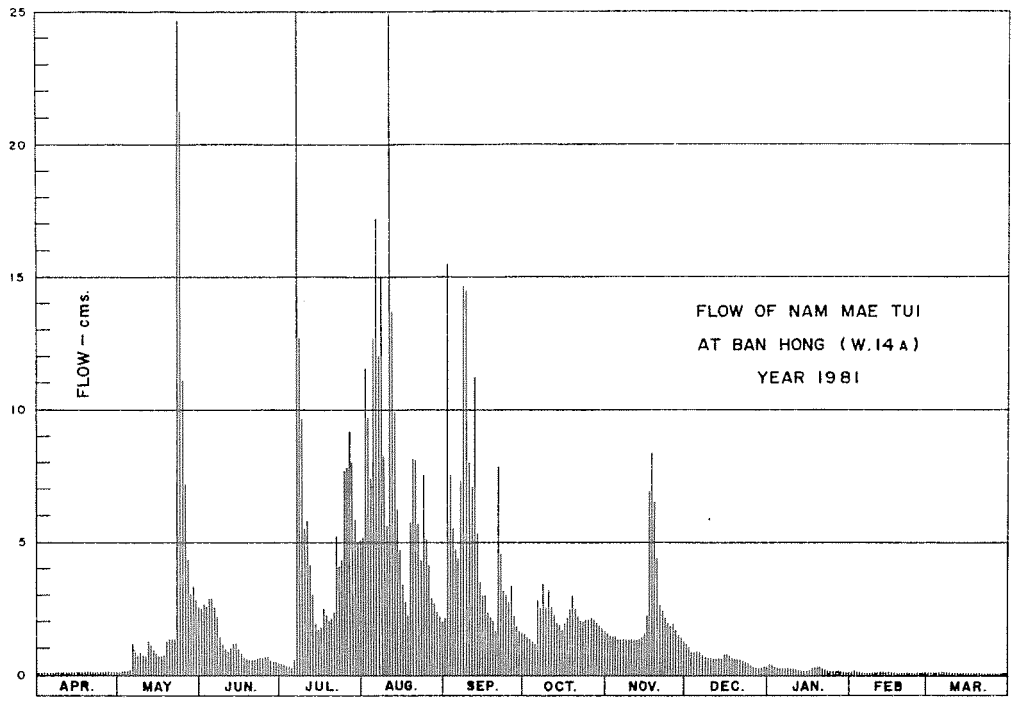
MAE TUI AT BAN HONG, LAMPANG (W.14A)

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 AT	+257.670 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ABOUT 7.00 METERS FROM THE TOP 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	257.70	257.71	258.17	257.83	258.42	258.13	258.05	258.05	257.99	257.82	257.73	257.72	
2	257.70	257.73	258.19	257.82	258.86	259.07	258.04	258.04	257.95	257.81	257.74	257.72	
3	257.70	257.72	258.18	257.82	258.75	258.60	258.03	258.03	257.93	257.80	257.74	257.72	
4	257.70	257.71	258.21	257.81	258.60	258.46	258.01	258.03	257.93	257.79	257.73	257.72	
5	257.70	257.74	258.21	257.81	258.91	258.39	257.99	258.02	257.94	257.79	257.72	257.72	
6	257.70	257.99	258.18	257.85	259.39	258.36	258.21	258.01	257.93	257.78	257.71	257.72	
7	257.70	257.94	258.13	259.88	258.89	258.58	258.18	258.02	257.92	257.78	257.71	257.72	
8	257.70	257.91	258.03	258.92	259.05	259.03	258.27	258.02	257.90	257.78	257.71	257.72	
9	257.69	257.93	258.01	258.71	258.64	259.02	258.18	258.02	257.90	257.78	257.71	257.71	
10	257.69	257.91	257.96	258.46	258.47	258.65	258.26	258.02	257.89	257.78	257.71	257.71	
11	257.69	257.91	257.94	258.48	259.51	258.58	258.19	258.02	257.89	257.77	257.71	257.71	
12	257.70	258.01	257.96	258.37	258.94	258.84	258.16	258.02	257.89	257.76	257.72	257.71	
13	257.70	257.98	257.99	258.21	258.65	258.49	258.11	258.02	257.89	257.75	257.72	257.71	
14	257.70	257.95	257.99	258.11	258.45	258.31	258.10	258.03	257.89	257.74	257.72	257.71	
15	257.70	257.92	257.96	258.07	258.38	258.20	258.07	258.05	257.92	257.74	257.72	257.72	
16	257.70	257.91	257.93	258.09	258.26	258.23	258.11	258.12	257.92	257.76	257.72	257.72	
17	257.73	257.91	257.89	258.17	258.19	258.16	258.13	258.53	257.91	257.79	257.72	257.72	
18	257.71	257.92	257.88	258.14	258.14	258.13	258.16	258.67	257.89	257.79	257.72	257.72	
19	257.72	258.00	257.88	258.12	258.53	258.12	258.22	258.49	257.89	257.79	257.72	257.72	
20	257.72	258.02	257.87	258.12	258.65	258.06	258.19	258.33	257.89	257.79	257.72	257.72	
21	257.72	258.02	257.88	258.14	258.65	258.63	258.14	258.19	257.88	257.78	257.71	257.72	
22	257.70	258.02	257.89	258.43	258.44	258.36	258.12	258.16	257.87	257.77	257.71	257.72	
23	257.70	258.61	257.90	258.33	258.36	258.25	258.11	258.13	257.86	257.77	257.71	257.72	
24	257.70	259.50	257.90	258.36	258.61	258.22	258.12	258.11	257.84	257.76	257.72	257.72	
25	257.70	258.86	257.90	258.62	258.43	258.20	258.12	258.09	257.82	257.76	257.72	257.72	
26	257.71	258.61	257.91	258.63	258.31	258.25	258.13	258.10	257.80	257.75	257.72	257.72	
27	257.71	258.39	257.89	258.72	258.21	258.15	258.12	258.07	257.79	257.74	257.72	257.72	
28	257.70	258.23	257.86	258.62	258.19	258.10	258.10	258.04	257.78	257.74	257.72	257.72	
29	257.72	258.26	257.86	258.49	258.15	258.07	258.09	258.02	257.78	257.73		257.72	
30	257.72	258.22	257.84	258.41	258.13	258.05	258.06	258.01	257.81	257.73		257.72	
31		258.18		258.42	258.11		258.06		257.81	257.73		257.72	
MEAN	257.70	258.09	257.98	258.32	258.56	258.39	258.12	258.11	257.88	257.77	257.72	257.72	
MAX	257.73	259.50	258.21	259.88	259.51	259.07	258.27	258.67	257.99	257.82	257.74	257.72	259.88
MIN	257.69	257.71	257.84	257.81	258.11	258.05	257.99	258.01	257.78	257.73	257.71	257.71	257.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 259.91 M (MSL), AT 9.00 HOURS ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 257.67 M (MSL), RIVER BED 257.65 M (MSL)
LEFT BANK ELEVATION 262.24 M (MSL)
RIGHT BANK ELEVATION 262.28 M (MSL), DRAINAGE AREA 649 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.04	2.48	0.37	5.06	2.14	1.54	1.54	1.14	0.34	0.09	0.07	
2	0.02	0.09	2.65	0.34	11.55	15.46	1.48	1.48	0.92	0.30	0.12	0.07	
3	0.02	0.07	2.56	0.34	9.67	7.35	1.41	1.41	0.81	0.26	0.12	0.07	
4	0.02	0.04	2.83	0.30	7.35	5.54	1.27	1.41	0.81	0.24	0.09	0.07	
5	0.02	0.12	2.83	0.30	12.44	4.71	1.14	1.34	0.86	0.24	0.07	0.07	
6	0.02	1.14	2.56	0.45	22.13	4.37	2.83	1.27	0.81	0.21	0.04	0.07	
7	0.02	0.86	2.14	33.45	12.07	7.08	2.56	1.34	0.75	0.21	0.04	0.07	
8	0.02	0.70	1.41	12.62	15.07	14.68	3.41	1.34	0.64	0.21	0.04	0.07	
9	0.02	0.81	1.27	9.02	7.95	14.49	2.56	1.34	0.64	0.21	0.04	0.04	
10	0.02	0.70	0.98	5.54	5.66	8.10	3.31	1.34	0.60	0.21	0.04	0.04	
11	0.02	0.70	0.86	5.78	24.83	7.08	2.65	1.34	0.60	0.19	0.04	0.04	
12	0.02	1.27	0.98	4.48	12.99	11.20	2.39	1.34	0.60	0.16	0.07	0.04	
13	0.02	1.09	1.14	2.83	8.10	5.90	1.97	1.34	0.60	0.14	0.07	0.04	
14	0.02	0.92	1.14	1.97	5.42	3.81	1.89	1.41	0.60	0.12	0.07	0.04	
15	0.02	0.75	0.98	1.68	4.60	2.73	1.68	1.54	0.75	0.12	0.07	0.07	
16	0.02	0.70	0.81	1.82	3.31	3.02	1.97	2.06	0.75	0.16	0.07	0.07	
17	0.09	0.70	0.60	2.48	2.65	2.39	2.14	6.42	0.70	0.24	0.07	0.07	
18	0.04	0.75	0.56	2.23	2.23	2.14	2.39	8.40	0.60	0.24	0.07	0.07	
19	0.07	1.20	0.56	2.06	6.42	2.06	2.92	5.90	0.60	0.24	0.07	0.07	
20	0.07	1.34	0.53	2.06	8.10	1.61	2.65	4.04	0.60	0.24	0.07	0.07	
21	0.07	1.34	0.56	2.23	8.10	7.80	2.23	2.65	0.56	0.21	0.04	0.07	
22	0.02	1.34	0.60	5.18	5.30	4.37	2.06	2.39	0.53	0.19	0.04	0.07	
23	0.02	7.50	0.64	4.04	4.37	3.21	1.97	2.14	0.49	0.19	0.04	0.07	
24	0.02	24.60	0.64	4.37	7.50	2.92	2.06	1.97	0.41	0.16	0.07	0.07	
25	0.02	11.55	0.64	7.65	5.18	2.73	2.06	1.82	0.34	0.16	0.07	0.07	
26	0.04	7.50	0.70	7.80	3.81	3.21	2.14	1.89	0.26	0.14	0.07	0.07	
27	0.04	4.71	0.60	9.18	2.83	2.31	2.06	1.68	0.24	0.12	0.07	0.07	
28	0.02	3.02	0.49	7.65	2.65	1.89	1.89	1.48	0.21	0.12	0.07	0.07	
29	0.07	3.31	0.49	5.90	2.31	1.68	1.82	1.34	0.21	0.09		0.07	
30	0.07	2.92	0.41	4.94	2.14	1.54	1.61	1.27	0.30	0.09		0.07	
31		2.56		5.06	1.97		1.61		0.30	0.09		0.07	
TOTAL	0.98	84.34	35.64	154.12	233.76	157.52	65.67	66.23	18.23	5.84	1.83	1.99	826.15 CMSDAY
MEAN	0.03	2.72	1.19	4.97	7.54	5.25	2.12	2.21	0.59	0.19	0.07	0.06	2.26 CMS
MAX	0.09	24.60	2.83	33.45	24.83	15.46	3.41	8.40	1.14	0.34	0.12	0.07	33.45 CMS
MIN	0.02	0.04	0.41	0.30	1.97	1.54	1.14	1.27	0.21	0.09	0.04	0.04	0.02 CMS
RUNOFF	0.085	7.287	3.079	13.316	20.197	13.610	5.674	5.722	1.575	0.505	0.158	0.172	71.379 MCM

MOMENTARY PEAK 34.17 CMS, AT 259.91 M (MSL), AT 9.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 3.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 UPSTREAM FROM BAN SOP PO, AMPHOE MAE THA, LAMPANG.

DRAINAGE AREA — 1,119 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +240.120 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE CAMP OF W.15 STATION.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

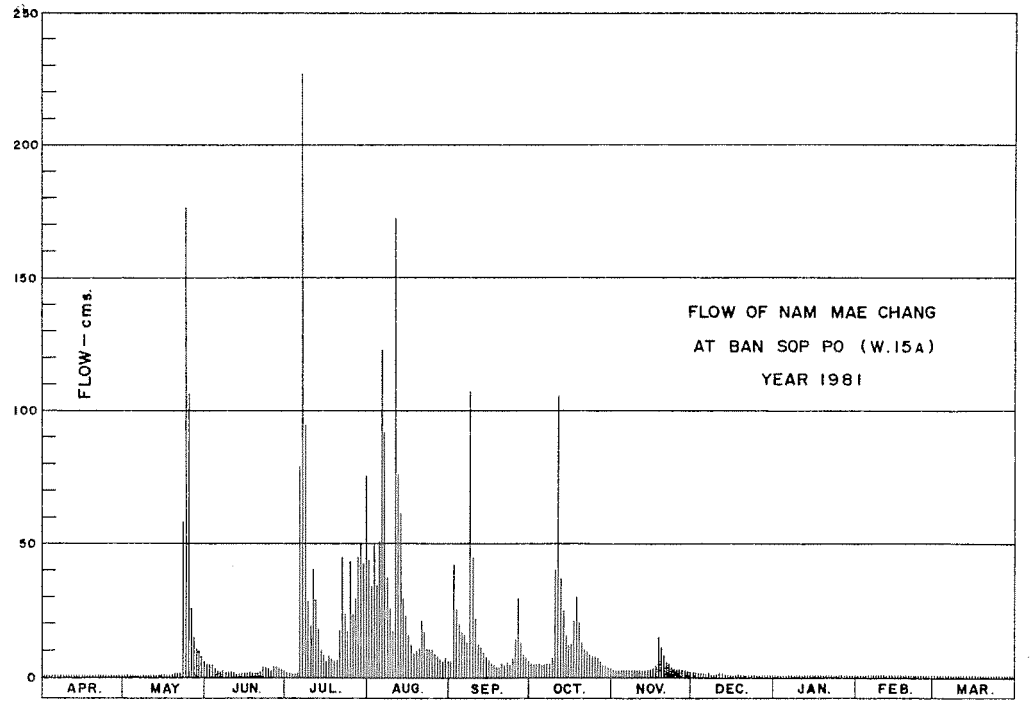
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 130 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	240.50	240.50	241.22	240.90	242.47	241.25	241.22	241.09	240.97	240.71	240.62	240.56	
2	240.50	240.50	241.20	240.87	242.22	242.40	241.17	241.05	240.93	240.71	240.64	240.59	
3	240.50	240.50	241.21	240.83	242.56	241.99	241.20	241.05	240.92	240.71	240.60	240.59	
4	240.50	240.50	241.08	240.80	242.23	241.81	241.27	241.05	240.90	240.71	240.62	240.61	
5	240.50	240.50	241.01	240.78	242.61	241.72	241.19	241.05	240.88	240.71	240.61	240.58	
6	240.50	240.50	240.97	241.85	243.67	241.70	241.21	241.05	240.87	240.71	240.62	240.59	
7	240.50	240.50	241.03	244.73	242.54	241.59	241.24	241.04	240.87	240.70	240.65	240.59	
8	240.50	240.50	240.95	243.35	242.21	243.48	241.21	241.04	240.87	240.70	240.62	240.59	
9	240.50	240.50	240.98	242.05	241.95	242.35	241.30	241.04	240.82	240.70	240.61	240.57	
10	240.50	240.50	240.92	241.78	241.72	241.93	241.47	241.02	240.83	240.69	240.62	240.55	
11	240.50	240.50	240.87	242.37	244.21	241.56	243.46	241.04	240.86	240.68	240.60	240.56	
12	240.50	240.50	240.84	241.97	243.02	241.52	242.37	241.02	240.85	240.67	240.60	240.56	
13	240.50	240.50	240.83	241.72	242.68	241.44	241.97	240.99	240.84	240.67	240.60	240.56	
14	240.50	240.50	240.94	241.48	242.07	241.35	241.70	241.01	240.83	240.67	240.60	240.56	
15	240.50	240.50	240.89	241.36	241.87	241.29	241.55	241.01	240.83	240.67	240.59	240.57	
16	240.50	240.50	240.86	241.28	241.65	241.23	241.54	241.05	240.80	240.65	240.59	240.60	
17	240.50	240.62	240.97	241.38	241.54	241.19	241.82	241.15	240.78	240.65	240.60	240.58	
18	240.50	240.71	240.93	241.30	241.41	241.15	242.13	241.64	240.78	240.67	240.61	240.56	
19	240.50	240.81	240.90	241.28	241.46	241.14	241.82	241.52	240.80	240.67	240.65	240.56	
20	240.50	240.94	240.87	241.32	241.49	241.24	241.59	241.37	240.79	240.64	240.57	240.54	
21	240.50	240.87	240.97	241.68	241.84	241.19	241.50	241.27	240.80	240.65	240.58	240.55	
22	240.50	240.81	241.12	242.47	241.67	241.25	241.46	241.19	240.79	240.67	240.57	240.55	
23	240.50	241.94	241.11	241.97	241.51	241.19	241.41	241.12	240.78	240.66	240.56	240.54	
24	240.50	244.25	241.08	241.68	241.50	241.30	241.37	241.08	240.77	240.63	240.57	240.53	
25	240.50	243.07	241.05	242.45	241.50	241.52	241.38	241.07	240.76	240.62	240.57	240.57	
26	240.50	241.87	241.16	241.94	241.42	242.11	241.36	241.08	240.78	240.63	240.58	240.55	
27	240.50	241.62	241.11	242.14	241.35	241.59	241.27	241.04	240.79	240.63	240.58	240.54	
28	240.50	241.45	241.11	242.47	241.29	241.37	241.21	241.02	240.79	240.63	240.57	240.54	
29	240.50	241.47	241.06	242.58	241.25	241.36	241.15	241.00	240.76	240.63		240.54	
30	240.50	241.32	240.97	242.42	241.34	241.27	241.13	240.99	240.74	240.62		240.58	
31		241.31		243.03	241.25		241.11		240.73	240.64		240.56	
MEAN	240.50	241.00	241.01	241.88	241.98	241.58	241.51	241.10	240.82	240.67	240.60	240.56	
MAX	240.50	244.25	241.22	244.73	244.21	243.48	243.46	241.64	240.97	240.71	240.65	240.61	244.73
MIN	240.50	240.50	240.83	240.78	241.25	241.14	241.11	240.99	240.73	240.62	240.56	240.53	240.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 245.05 M (MSL), AT 16.00 HOURS, ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 240.12 M (MSL), RIVER BED 239.82 M (MSL)
LEFT BANK ELEVATION 251.55 M (MSL)
RIGHT BANK ELEVATION 251.33 M (MSL), DRAINAGE AREA 1119 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	4.92	1.30	44.65	5.40	4.92	2.91	1.86	0.35	0.14	0.06	
2	0.00	0.00	4.60	1.15	33.80	41.50	4.12	2.55	1.54	0.35	0.18	0.09	
3	0.00	0.00	4.76	0.95	49.00	25.26	4.60	2.55	1.46	0.35	0.10	0.09	
4	0.00	0.00	2.82	0.80	34.20	19.32	5.72	2.55	1.30	0.35	0.14	0.12	
5	0.00	0.00	2.19	0.70	51.50	16.44	4.44	2.55	1.20	0.35	0.12	0.08	
6	0.00	0.00	1.86	20.60	122.10	15.80	4.76	2.55	1.15	0.35	0.14	0.09	
7	0.00	0.00	2.37	226.58	48.00	12.94	5.24	2.46	1.15	0.30	0.20	0.09	
8	0.00	0.00	1.70	96.75	33.40	106.90	4.76	2.46	1.15	0.30	0.14	0.09	
9	0.00	0.00	1.94	27.45	23.90	39.25	6.20	2.46	0.90	0.30	0.12	0.07	
10	0.00	0.00	1.46	18.36	16.44	23.22	9.94	2.28	0.95	0.28	0.14	0.05	
11	0.00	0.00	1.15	40.15	172.00	12.16	105.30	2.46	1.10	0.26	0.10	0.06	
12	0.00	0.00	1.00	24.58	74.70	11.12	40.15	2.28	1.05	0.24	0.10	0.06	
13	0.00	0.00	0.95	16.44	55.00	9.28	24.58	2.02	1.00	0.24	0.10	0.06	
14	0.00	0.00	1.62	10.16	28.19	7.30	15.80	2.19	0.95	0.24	0.10	0.06	
15	0.00	0.00	1.25	7.52	21.24	6.04	11.90	2.19	0.95	0.24	0.09	0.07	
16	0.00	0.00	1.10	5.88	14.50	5.08	11.64	2.55	0.80	0.20	0.09	0.10	
17	0.00	0.14	1.86	7.96	11.64	4.44	19.64	3.80	0.70	0.20	0.10	0.08	
18	0.00	0.35	1.54	6.20	8.62	3.80	30.41	14.24	0.70	0.24	0.12	0.06	
19	0.00	0.85	1.30	5.88	9.72	3.64	19.64	11.12	0.80	0.24	0.20	0.06	
20	0.00	1.62	1.15	6.64	10.38	5.24	12.94	7.74	0.75	0.18	0.07	0.04	
21	0.00	1.15	1.86	15.28	20.28	4.44	10.60	5.72	0.80	0.20	0.08	0.05	
22	0.00	0.85	3.32	44.65	15.02	5.40	9.72	4.44	0.75	0.24	0.07	0.05	
23	0.00	20.28	3.16	24.58	10.86	4.44	8.62	3.32	0.70	0.22	0.06	0.04	
24	0.00	176.00	2.82	15.28	10.60	6.20	7.74	2.82	0.65	0.16	0.07	0.03	
25	0.00	77.70	2.55	43.75	10.60	11.12	7.96	2.73	0.60	0.14	0.07	0.07	
26	0.00	24.58	3.96	23.56	8.84	29.67	7.52	2.82	0.70	0.16	0.08	0.05	
27	0.00	13.72	3.16	30.78	7.30	12.94	5.72	2.46	0.75	0.16	0.08	0.04	
28	0.00	9.50	3.16	44.65	6.04	7.74	4.76	2.28	0.75	0.16	0.07	0.04	
29	0.00	9.94	2.54	50.00	5.40	7.52	3.80	2.10	0.60	0.16		0.04	
30	0.00	6.64	1.86	42.40	7.08	5.72	3.48	2.02	0.50	0.14		0.08	
31		5.42		75.30	5.40		3.16		0.45	0.18		0.06	
TOTAL	0.00	349.74	70.03	936.28	970.40	469.32	419.78	106.62	28.71	7.48	3.07	2.03	3363.45 CMSDAY
MEAN	0.00	11.28	2.33	30.20	31.30	15.64	13.54	3.55	0.93	0.24	0.11	0.07	9.21 CMS
MAX	0.00	176.00	4.92	226.58	172.00	106.90	105.30	14.24	1.86	0.35	0.20	0.12	226.58 CMS
MIN	0.00	0.00	0.95	0.70	5.40	3.64	3.16	2.02	0.45	0.14	0.06	0.03	0.00 CMS
RUNOFF	0.000	30.218	6.051	80.894	83.842	40.549	36.269	9.212	2.481	0.646	0.265	0.175	290.602 MCM

MOMENTARY PEAK 262.75 CMS, AT 245.05 M (MSL), AT 16.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 8.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 234.81 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

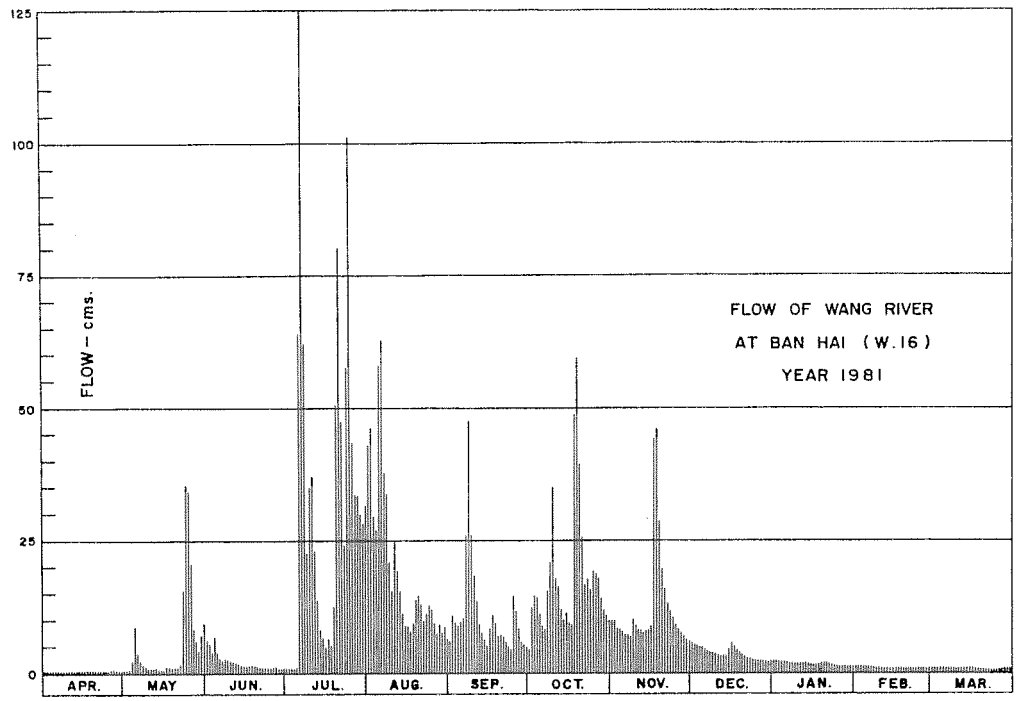
WANG RIVER AT BAN HAI, LAMPANG (W.16)

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 AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 184 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.24	0.30	0.94	0.43	1.92	0.92	0.83	1.10	0.92	0.65	0.50	0.44	
2	0.24	0.29	0.90	0.41	2.00	1.14	1.18	1.09	0.90	0.65	0.50	0.43	
3	0.23	0.29	0.80	0.42	1.67	1.08	1.26	1.03	0.88	0.65	0.51	0.42	
4	0.22	0.52	0.96	0.42	1.61	1.07	1.21	1.03	0.87	0.64	0.50	0.42	
5	0.22	1.05	0.80	0.44	2.17	1.08	1.12	1.02	0.86	0.64	0.50	0.42	
6	0.22	0.80	0.71	2.39	2.29	1.13	1.04	0.99	0.84	0.63	0.50	0.42	
7	0.22	0.61	0.68	3.51	1.84	1.45	1.04	0.99	0.82	0.61	0.50	0.42	
8	0.23	0.55	0.70	1.99	1.73	2.02	1.30	0.98	0.80	0.60	0.50	0.42	
9	0.22	0.49	0.69	1.50	1.44	1.67	1.39	1.10	0.80	0.60	0.48	0.42	
10	0.22	0.46	0.68	1.78	1.30	1.42	1.78	1.05	0.78	0.59	0.48	0.42	
11	0.23	0.44	0.64	1.92	1.55	1.27	1.37	1.03	0.77	0.59	0.48	0.41	
12	0.24	0.45	0.60	1.48	1.42	1.13	1.32	1.01	0.77	0.59	0.48	0.41	
13	0.22	0.42	0.58	1.24	1.29	1.01	1.17	0.99	0.77	0.58	0.48	0.41	
14	0.23	0.40	0.56	1.05	1.16	0.94	1.12	1.01	0.76	0.58	0.47	0.41	
15	0.32	0.39	0.55	0.94	1.06	0.89	1.15	1.01	0.84	0.57	0.47	0.41	
16	0.30	0.39	0.53	0.88	1.06	1.04	1.09	1.09	0.91	0.56	0.47	0.40	
17	0.32	0.52	0.52	0.96	0.99	1.13	1.08	1.95	0.86	0.56	0.47	0.40	
18	0.31	0.47	0.55	0.92	1.09	1.08	2.03	1.99	0.83	0.57	0.46	0.40	
19	0.28	0.45	0.54	1.22	1.23	0.97	2.31	1.61	0.80	0.57	0.46	0.40	
20	0.27	0.45	0.50	1.92	1.26	0.99	1.65	1.43	0.77	0.57	0.46	0.40	
21	0.25	0.44	0.47	2.55	1.20	0.97	1.44	1.29	0.74	0.57	0.46	0.40	
22	0.24	0.56	0.45	1.92	1.10	0.94	1.33	1.20	0.73	0.57	0.46	0.40	
23	0.23	1.08	0.44	1.53	1.13	0.87	1.36	1.14	0.71	0.56	0.45	0.40	
24	0.22	1.79	0.44	2.18	1.36	0.83	1.31	1.10	0.70	0.55	0.45	0.40	
25	0.22	1.75	0.43	2.82	1.18	1.27	1.40	1.07	0.68	0.54	0.45	0.40	
26	0.27	1.32	0.43	1.96	1.08	1.14	1.40	1.03	0.66	0.54	0.45	0.40	
27	0.37	1.03	0.51	1.75	1.00	1.02	1.36	1.00	0.66	0.53	0.44	0.40	
28	0.35	0.89	0.47	1.74	1.07	0.93	1.24	0.98	0.65	0.52	0.44	0.41	
29	0.34	0.82	0.46	1.66	1.01	0.90	1.17	0.95	0.65	0.51		0.42	
30	0.31	1.00	0.45	1.63	1.04	0.87	1.13	0.93	0.65	0.50		0.41	
31		1.09		1.71	0.93		1.11		0.65	0.50		0.40	
MEAN	0.26	0.69	0.60	1.52	1.36	1.11	1.31	1.14	0.78	0.58	0.47	0.41	
MAX	0.37	1.79	0.96	3.51	2.29	2.02	2.31	1.99	0.92	0.65	0.51	0.44	3.51
MIN	0.22	0.29	0.43	0.41	0.93	0.83	0.83	0.93	0.65	0.50	0.44	0.40	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.18 M (A.D), AT 3.00 HOURS, ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 14.33 M (A.D)
RIGHT BANK ELEVATION 7.55 M (A.D), DRAINAGE AREA 1284 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.25	6.10	0.68	42.06	5.70	4.11	9.70	5.70	2.10	1.10	0.74	
2	0.10	0.22	5.30	0.56	46.30	10.82	11.94	9.46	5.30	2.10	1.10	0.68	
3	0.07	0.22	3.60	0.62	29.92	9.22	14.30	8.02	4.96	2.10	1.16	0.62	
4	0.05	1.22	6.50	0.62	27.16	8.98	12.80	8.02	4.79	2.02	1.10	0.62	
5	0.05	8.50	3.60	0.74	55.76	9.22	10.26	7.78	4.62	2.02	1.10	0.62	
6	0.05	3.60	2.61	69.35	62.90	10.54	8.26	7.10	4.28	1.94	1.10	0.62	
7	0.05	1.78	2.34	163.06	37.94	20.85	8.26	7.10	3.94	1.78	1.10	0.62	
8	0.07	1.40	2.50	45.77	32.68	47.38	15.50	6.90	3.60	1.70	1.10	0.62	
9	0.05	1.04	2.42	22.70	20.48	29.92	18.65	9.70	3.60	1.70	0.98	0.62	
10	0.05	0.86	2.34	34.98	15.50	19.74	34.98	8.50	3.38	1.64	0.98	0.62	
11	0.07	0.74	2.02	42.06	24.70	14.60	17.95	8.02	3.27	1.64	0.98	0.56	
12	0.10	0.80	1.70	21.96	19.74	10.54	16.20	7.54	3.27	1.64	0.98	0.56	
13	0.05	0.62	1.58	13.70	15.20	7.54	11.66	7.10	3.27	1.58	0.98	0.56	
14	0.07	0.50	1.46	8.50	11.38	6.10	10.26	7.54	3.16	1.58	0.92	0.56	
15	0.30	0.47	1.40	6.10	8.74	5.13	11.10	7.54	4.28	1.52	0.92	0.56	
16	0.25	0.47	1.28	4.96	8.74	8.26	9.46	9.46	5.50	1.46	0.92	0.50	
17	0.30	1.22	1.22	6.50	7.10	10.54	9.22	43.65	4.62	1.46	0.92	0.50	
18	0.27	0.92	1.40	5.70	9.46	9.22	47.92	45.77	4.11	1.52	0.86	0.50	
19	0.20	0.80	1.34	13.10	13.40	6.70	64.15	27.16	3.60	1.52	0.86	0.50	
20	0.18	0.80	1.10	42.06	14.30	7.10	29.00	20.11	3.27	1.52	0.86	0.50	
21	0.13	0.74	0.92	80.00	12.50	6.70	20.48	15.20	2.94	1.52	0.86	0.50	
22	0.10	1.46	0.80	42.06	9.70	6.10	16.55	12.50	2.83	1.52	0.86	0.50	
23	0.07	9.22	0.74	23.90	10.54	4.79	17.60	10.82	2.61	1.46	0.80	0.50	
24	0.05	35.44	0.74	56.34	17.60	4.11	15.85	9.70	2.50	1.40	0.80	0.50	
25	0.05	33.60	0.68	100.65	11.94	14.60	19.00	8.98	2.34	1.34	0.80	0.50	
26	0.18	16.20	0.68	44.18	9.22	10.82	19.00	8.02	2.18	1.34	0.80	0.50	
27	0.42	8.02	1.16	33.60	7.30	7.78	17.60	7.30	2.18	1.28	0.74	0.50	
28	0.37	5.13	0.92	33.14	8.98	5.90	13.70	6.90	2.10	1.22	0.74	0.56	
29	0.35	3.94	0.86	29.46	7.54	5.30	11.66	6.30	2.10	1.16		0.62	
30	0.27	7.30	0.80	28.08	8.26	4.79	10.54	5.90	2.10	1.10		0.56	
31		9.46		31.76	5.90		9.98		2.10	1.10		0.50	
TOTAL	4.42	156.94	60.11	1006.89	612.94	328.99	537.94	357.79	108.50	48.98	26.42	17.42	3267.33 CMSDAY
MEAN	0.15	5.06	2.00	32.48	19.77	10.97	17.35	11.93	3.50	1.58	0.94	0.56	8.95 CMS
MAX	0.42	35.44	6.50	163.06	62.90	47.38	64.15	45.77	5.70	2.10	1.16	0.74	163.06 CMS
MIN	0.05	0.22	0.68	0.56	5.90	4.11	4.11	5.90	2.10	1.10	0.74	0.50	0.05 CMS
RUNOFF	0.382	13.560	5.193	86.995	52.958	28.425	46.478	30.913	9.374	4.232	2.283	1.505	282.298 MCM

MOMENTARY PEAK 237.10 CMS, AT 4.18 M (A.D), AT 3.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 6.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 184.66 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WANG RIVER BASIN

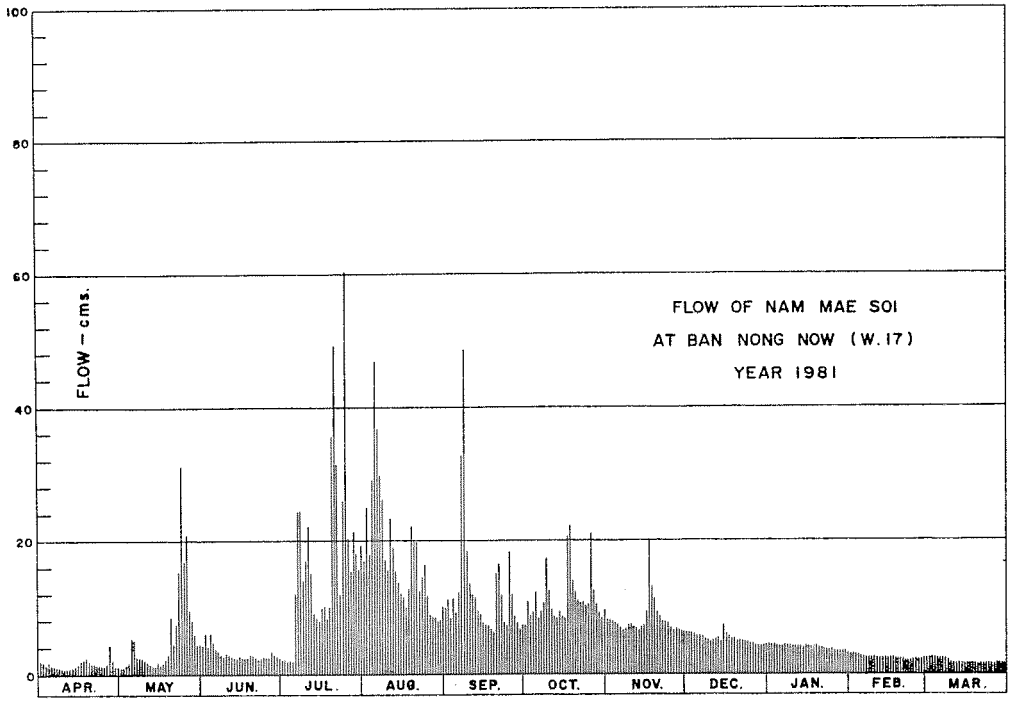
NAM MAE SOI AT BAN NONG NOW, LAMPANG (W.17)

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 AT	+292.00 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 20 METERS FROM THE TOP 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	292.55	292.48	292.68	292.57	293.06	292.84	292.74	292.77	292.69	292.61	292.53	292.49	
2	292.54	292.49	292.76	292.57	293.26	292.87	292.85	292.77	292.69	292.60	292.53	292.49	
3	292.50	292.51	292.69	292.55	293.09	292.78	292.78	292.76	292.69	292.60	292.52	292.49	
4	292.52	292.53	292.76	292.55	293.18	292.88	292.81	292.75	292.68	292.60	292.51	292.49	
5	292.50	292.74	292.71	292.55	293.69	292.82	292.91	292.74	292.66	292.60	292.51	292.49	
6	292.49	292.72	292.65	293.81	293.50	292.92	292.78	292.72	292.66	292.59	292.50	292.49	
7	292.48	292.59	292.64	294.14	293.38	293.05	292.81	292.71	292.66	292.60	292.50	292.49	
8	292.48	292.59	292.61	293.25	293.29	293.72	292.86	292.71	292.64	292.60	292.49	292.48	
9	292.47	292.57	292.60	292.97	293.06	293.10	293.06	292.73	292.64	292.59	292.49	292.45	
10	292.47	292.55	292.63	293.09	293.02	292.95	292.90	292.73	292.63	292.59	292.50	292.43	
11	292.46	292.54	292.61	293.19	293.22	292.90	292.82	292.73	292.63	292.58	292.50	292.43	
12	292.45	292.53	292.60	292.96	293.15	292.91	292.78	292.72	292.64	292.58	292.49	292.43	
13	292.48	292.50	292.57	292.82	293.02	292.84	292.78	292.71	292.65	292.58	292.49	292.43	
14	292.48	292.49	292.57	292.78	292.97	292.80	292.81	292.73	292.63	292.59	292.49	292.43	
15	292.54	292.53	292.61	292.76	292.90	292.74	292.78	292.74	292.73	292.60	292.49	292.43	
16	292.57	292.51	292.59	292.83	292.89	292.73	292.76	292.82	292.68	292.59	292.49	292.42	
17	292.59	292.54	292.58	292.84	292.84	292.73	293.15	293.14	292.65	292.58	292.49	292.42	
18	292.59	292.56	292.57	292.78	292.93	292.71	293.19	292.94	292.65	292.58	292.49	292.42	
19	292.55	292.62	292.61	292.84	293.19	292.70	292.99	292.87	292.64	292.59	292.48	292.42	
20	292.52	292.86	292.61	293.47	293.15	293.00	292.93	292.81	292.63	292.58	292.48	292.41	
21	292.53	292.70	292.59	293.73	293.13	293.04	292.87	292.79	292.63	292.58	292.48	292.42	
22	292.51	292.86	292.56	293.15	292.92	292.88	292.86	292.75	292.63	292.57	292.47	292.42	
23	292.51	293.05	292.57	292.91	292.96	292.76	292.87	292.75	292.62	292.56	292.47	292.42	
24	292.50	293.51	292.60	293.25	293.04	292.73	292.84	292.74	292.61	292.56	292.46	292.42	
25	292.49	293.15	292.59	293.90	292.86	293.09	292.85	292.70	292.61	292.56	292.47	292.42	
26	292.52	293.26	292.59	293.12	292.80	292.91	293.16	292.71	292.61	292.55	292.47	292.42	
27	292.64	292.88	292.64	293.01	292.78	292.79	292.94	292.71	292.60	292.55	292.47	292.41	
28	292.56	292.83	292.62	293.17	292.78	292.75	292.85	292.71	292.60	292.55	292.48	292.44	
29	292.50	292.76	292.60	293.09	292.76	292.71	292.80	292.71	292.60	292.55		292.43	
30	292.49	292.70	292.58	293.02	292.77	292.73	292.78	292.70	292.60	292.55		292.43	
31		292.70		293.12	292.84		292.81		292.60	292.54		292.42	
MEAN	292.52	292.70	292.62	293.06	293.05	292.88	292.87	292.76	292.64	292.58	292.49	292.44	
MAX	292.64	293.51	292.76	294.14	293.69	293.72	293.19	293.14	292.73	292.61	292.53	292.49	294.14
MIN	292.45	292.48	292.56	292.55	292.76	292.70	292.74	292.70	292.60	292.54	292.46	292.41	292.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 294.35 M (MSL), AT 6.00 HOURS, ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 292.00 M (MSL), RIVER BED 291.61 M (MSL)
LEFT BANK ELEVATION 296.70 M (MSL)
RIGHT BANK ELEVATION 296.70 M (MSL), DRAINAGE AREA 619 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.9	1.0	4.0	2.2	17.0	10.0	7.4	8.1	6.1	4.5	3.0	2.4	
2	1.8	1.1	5.8	2.2	24.8	10.8	10.3	8.1	6.1	4.2	3.0	2.4	
3	1.2	1.3	4.2	1.9	18.0	8.3	8.3	7.8	6.1	4.2	2.8	2.4	
4	1.5	1.6	5.8	1.9	21.5	11.1	9.1	7.6	5.9	4.2	2.7	2.4	
5	1.2	5.3	4.6	1.9	46.7	9.4	12.0	7.4	5.5	4.2	2.7	2.4	
6	1.1	4.9	3.5	54.2	36.2	12.3	8.3	6.9	5.5	4.1	2.5	2.4	
7	1.0	2.5	3.3	76.4	30.3	16.6	9.1	6.6	5.5	4.2	2.5	2.4	
8	1.0	2.5	2.8	24.4	26.1	48.5	10.6	6.6	5.1	4.2	2.4	2.2	
9	0.9	2.2	2.6	13.9	17.0	18.4	17.0	7.1	5.1	4.1	2.4	1.8	
10	0.9	1.9	3.1	18.0	15.5	13.2	11.7	7.1	4.9	4.1	2.5	1.5	
11	0.8	1.8	2.8	21.9	23.1	11.7	9.4	7.1	4.9	3.9	2.5	1.5	
12	0.7	1.6	2.6	13.6	20.3	12.0	8.3	6.9	5.1	3.9	2.4	1.5	
13	1.0	1.2	2.2	9.4	15.5	10.0	8.3	6.6	5.3	3.9	2.4	1.5	
14	1.0	1.1	2.2	8.3	13.9	8.8	9.1	7.1	4.9	4.1	2.4	1.5	
15	1.8	1.6	2.8	7.8	11.7	7.4	8.3	7.4	7.1	4.2	2.4	1.5	
16	2.2	1.3	2.5	9.7	11.4	7.1	7.8	9.4	5.9	4.1	2.4	1.4	
17	2.5	1.8	2.3	10.0	10.0	7.1	20.3	19.9	5.3	3.9	2.4	1.4	
18	2.5	2.0	2.2	8.3	12.6	6.6	21.9	12.9	5.3	3.9	2.4	1.4	
19	1.9	3.0	2.8	10.0	21.9	6.3	14.5	10.8	5.1	4.1	2.2	1.4	
20	1.5	8.2	2.8	34.7	20.3	14.8	12.6	9.1	4.9	3.9	2.2	1.2	
21	1.6	4.4	2.5	49.1	19.6	16.2	10.8	8.6	4.9	3.9	2.2	1.4	
22	1.3	8.2	2.0	20.3	12.3	11.1	10.6	7.6	4.9	3.7	2.1	1.4	
23	1.3	13.6	2.2	12.0	13.6	7.8	10.8	7.6	4.7	3.6	2.1	1.4	
24	1.2	31.2	2.6	24.4	16.2	7.1	10.0	7.4	4.5	3.6	1.9	1.4	
25	1.1	16.9	2.5	60.0	10.6	18.0	10.3	6.3	4.5	3.6	2.1	1.4	
26	1.5	20.8	2.5	19.2	8.8	12.0	20.7	6.6	4.5	3.4	2.1	1.4	
27	3.3	8.7	3.3	15.2	8.3	8.6	12.9	6.6	4.2	3.4	2.1	1.2	
28	2.0	7.4	3.0	21.1	8.3	7.6	10.3	6.6	4.2	3.4	2.2	1.7	
29	1.2	5.8	2.6	18.0	7.8	6.6	8.8	6.6	4.2	3.4		1.5	
30	1.1	4.4	2.3	15.5	8.1	7.1	8.3	6.3	4.2	3.4		1.5	
31		4.4		19.2	10.0		9.1		4.2	3.2		1.4	
TOTAL	44.0	173.7	90.4	604.7	537.4	352.5	346.9	240.7	158.6	120.5	67.0	52.3	2788.7 CMSDAY
MEAN	1.5	5.6	3.0	19.5	17.3	11.7	11.2	8.0	5.1	3.9	2.4	1.7	7.6 CMS
MAX	3.3	31.2	5.8	76.4	46.7	48.5	21.9	19.9	7.1	4.5	3.0	2.4	76.4 CMS
MIN	0.7	1.0	2.0	1.9	7.8	6.3	7.4	6.3	4.2	3.2	1.9	1.2	0.7 CMS
RUNOFF	3.80	15.01	7.81	52.25	46.43	30.46	29.97	20.80	13.70	10.41	5.79	4.52	240.94 MCM

MOMENTARY PEAK 91.50 CMS, AT 294.35 M (MSL), AT 6.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 12.34 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 147.82 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

YOM RIVER BASIN

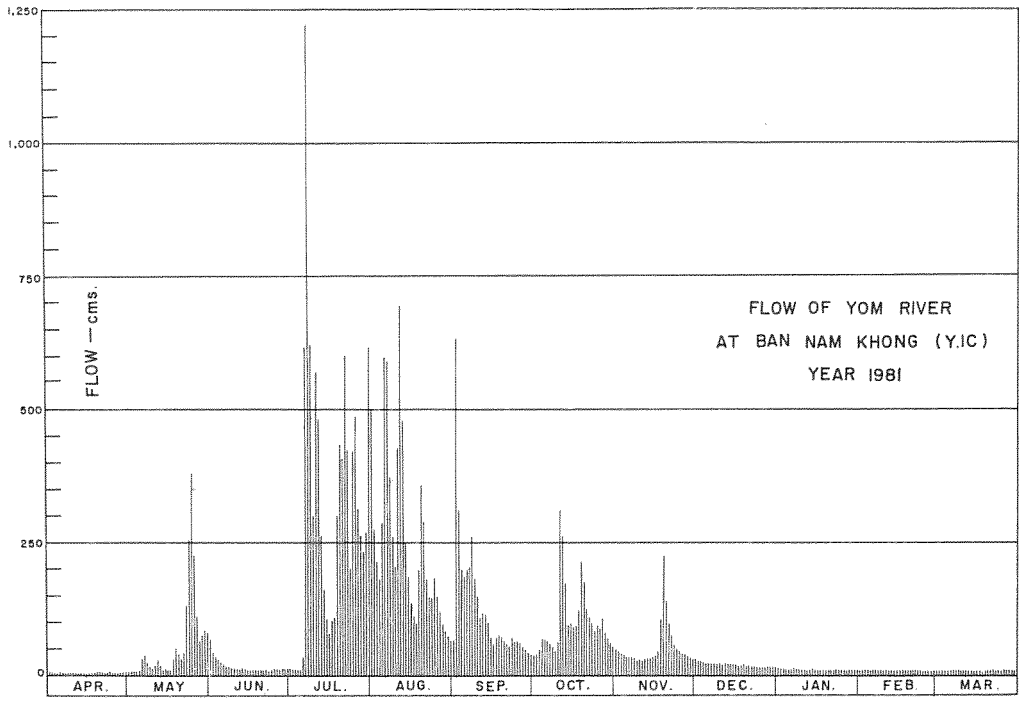
YOM RIVER AT BAN NAM KHONG, PHRAE (Y.1C)

LOCATION	LAT. 18-07-59 N., LONG. 100-07-39 E., ON RIGHT BANK ABOUT 5 METERS DOWNSTREAM FROM PHATHANA PHAK NUA 8 TH. BRIDGE AT TAMBON PA MAT, AMPHOE MUANG, PHRAE.
DRAINAGE AREA	7,624 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+143.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF GAGE OBSERVER'S HOUSE.
ELEVATION	+153.908 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	FAIRLY STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 136 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	144.22	144.23	145.48	144.43	148.38	145.37	145.03	145.16	144.87	144.54	144.39	144.42	
2	144.23	144.22	145.18	144.39	147.08	149.29	145.05	145.10	144.83	144.51	144.38	144.43	
3	144.24	144.21	144.94	144.35	146.70	147.19	145.08	145.04	144.81	144.52	144.38	144.42	
4	144.25	144.21	144.84	144.35	146.54	146.66	145.46	144.99	144.78	144.48	144.38	144.42	
5	144.24	144.35	144.73	144.34	147.88	146.59	145.45	144.99	144.78	144.46	144.37	144.42	
6	144.24	144.97	144.68	145.76	149.10	146.69	145.38	144.96	144.77	144.46	144.37	144.42	
7	144.24	145.06	144.60	151.48	149.07	146.73	145.30	144.93	144.75	144.46	144.37	144.42	
8	144.22	144.69	144.52	152.06	147.72	147.11	145.26	144.91	144.74	144.47	144.36	144.41	
9	144.21	144.56	144.51	147.82	147.08	146.56	145.17	144.87	144.74	144.48	144.37	144.41	
10	144.21	144.51	144.47	147.40	146.76	146.16	145.40	144.86	144.74	144.49	144.38	144.40	
11	144.20	144.59	144.44	148.97	149.05	145.92	147.46	144.83	144.72	144.49	144.38	144.41	
12	144.20	144.84	144.44	148.20	149.61	145.95	146.80	144.87	144.69	144.49	144.38	144.41	
13	144.21	144.56	144.49	146.86	147.69	145.93	146.04	144.87	144.68	144.49	144.39	144.39	
14	144.21	144.36	144.44	146.18	146.87	145.76	145.75	144.90	144.67	144.49	144.37	144.38	
15	144.21	144.31	144.40	145.80	146.45	145.47	145.80	144.95	144.66	144.49	144.35	144.37	
16	144.21	144.29	144.40	145.59	146.08	145.33	145.72	145.02	144.66	144.48	144.35	144.37	
17	144.21	144.30	144.40	145.91	145.92	145.54	145.75	145.04	144.66	144.48	144.37	144.36	
18	144.21	144.97	144.40	145.90	145.82	145.54	146.17	146.52	144.65	144.47	144.37	144.36	
19	144.21	145.24	144.40	147.77	147.19	145.47	146.77	146.85	144.64	144.46	144.36	144.35	
20	144.21	145.03	144.40	148.23	147.74	145.40	146.43	146.13	144.62	144.46	144.35	144.35	
21	144.22	144.87	144.40	148.08	147.22	145.30	146.04	145.72	144.62	144.45	144.35	144.34	
22	144.24	145.03	144.40	149.14	146.48	145.29	145.82	145.46	144.59	144.43	144.35	144.34	
23	144.22	146.37	144.40	147.72	146.23	145.47	145.78	145.27	144.58	144.44	144.35	144.33	
24	144.22	147.27	144.43	146.75	146.24	145.36	145.65	145.18	144.58	144.43	144.35	144.33	
25	144.22	147.90	144.50	148.33	146.54	145.40	145.75	145.12	144.57	144.44	144.36	144.36	
26	144.23	146.57	144.50	148.50	146.11	145.35	145.68	145.07	144.57	144.43	144.37	144.37	
27	144.23	145.86	144.47	147.25	145.85	145.21	145.84	145.03	144.57	144.42	144.38	144.36	
28	144.23	145.38	144.50	147.13	145.69	145.12	145.58	144.96	144.56	144.41	144.38	144.36	
29	144.24	145.56	144.50	146.96	145.62	145.06	145.41	144.92	144.56	144.41		144.36	
30	144.25	145.64	144.50	147.50	145.44	145.04	145.30	144.90	144.55	144.41		144.36	
31		145.62		149.21	145.38		145.21		144.55	144.41		144.36	
MEAN	144.22	145.08	144.56	147.17	146.95	145.91	145.72	145.18	144.67	144.46	144.37	144.38	
MAX	144.25	147.90	145.48	152.06	149.61	149.29	147.46	146.85	144.87	144.54	144.39	144.43	152.06
MIN	144.20	144.21	144.40	144.34	145.38	145.04	145.03	144.83	144.55	144.41	144.35	144.33	144.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 152.72 M (MSL), AT 5.00 HOURS, ON JUL 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 143.50 M (MSL), RIVER BED 143.43 M (MSL)
LEFT BANK ELEVATION 152.89 M (MSL)
RIGHT BANK ELEVATION 153.87 M (MSL), DRAINAGE AREA 7624 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.40	4.60	69.40	8.90	461.40	60.60	36.80	45.20	27.50	12.60	7.80	8.60	
2	4.60	4.40	46.60	7.80	251.84	629.10	38.00	41.00	25.50	11.40	7.60	8.90	
3	4.80	4.20	31.40	7.00	200.00	268.12	39.80	37.40	24.50	11.80	7.60	8.60	
4	5.00	4.20	26.00	7.00	179.80	194.80	67.80	34.40	23.00	10.40	7.60	8.60	
5	4.80	7.00	20.50	6.80	374.80	185.80	67.00	34.40	23.00	9.80	7.40	8.60	
6	4.80	33.20	18.20	93.00	593.00	198.70	61.40	32.60	22.50	9.80	7.40	8.60	
7	4.80	38.60	15.00	1088.60	587.30	203.90	55.00	30.80	21.50	9.80	7.40	8.60	
8	4.40	18.60	11.80	1219.80	349.20	256.28	52.20	29.60	21.00	10.10	7.20	8.30	
9	4.20	13.40	11.40	365.20	251.84	162.20	45.90	27.50	21.00	10.40	7.40	8.30	
10	4.20	11.40	10.10	299.20	207.80	134.20	63.00	27.00	21.00	10.70	7.60	8.00	
11	4.00	14.60	9.20	568.30	583.50	109.00	308.08	25.50	20.00	10.70	7.60	8.30	
12	4.00	26.00	9.20	429.00	692.00	112.00	213.00	27.50	18.60	10.70	7.60	8.30	
13	4.20	13.40	10.70	220.80	344.40	110.00	121.00	27.50	18.20	10.70	7.80	7.80	
14	4.20	7.20	9.20	136.60	222.10	93.00	92.00	29.00	17.80	10.70	7.40	7.60	
15	4.20	6.20	8.00	97.00	169.00	68.60	97.00	32.00	17.40	10.70	7.00	7.40	
16	4.20	5.80	8.00	78.20	125.00	57.40	89.00	36.20	17.40	10.40	7.00	7.40	
17	4.20	6.00	8.00	108.00	109.00	74.20	92.00	37.40	17.40	10.40	7.40	7.20	
18	4.20	33.20	8.00	107.00	99.00	74.20	135.40	177.40	17.00	10.10	7.40	7.20	
19	4.20	50.80	8.00	357.20	268.12	68.60	209.10	219.50	16.60	9.80	7.20	7.00	
20	4.20	36.80	8.00	434.40	352.40	63.00	166.60	130.60	15.80	9.80	7.00	7.00	
21	4.40	27.50	8.00	408.60	272.56	55.00	121.00	89.00	15.80	9.50	7.00	6.80	
22	4.80	36.80	8.00	600.60	172.60	54.30	99.00	67.80	14.60	8.90	7.00	6.80	
23	4.40	159.40	8.00	349.20	142.60	68.60	95.00	52.90	14.20	9.20	7.00	6.60	
24	4.40	279.96	8.90	206.50	143.80	59.80	83.00	46.60	14.20	8.90	7.00	6.60	
25	4.40	378.00	11.00	452.40	179.80	63.00	92.00	42.40	13.80	9.20	7.20	7.20	
26	4.60	183.40	11.00	483.00	128.20	59.00	85.40	39.20	13.80	8.90	7.40	7.40	
27	4.60	103.00	10.10	277.00	102.00	48.70	101.00	36.80	13.80	8.60	7.60	7.20	
28	4.60	61.40	11.00	259.24	86.20	42.40	77.40	32.60	13.40	8.30	7.60	7.20	
29	4.80	75.80	11.00	234.40	80.60	38.60	63.80	30.20	13.40	8.30		7.20	
30	5.00	82.20	11.00	314.00	66.20	37.40	55.00	29.00	13.00	8.30		7.20	
31		80.60		613.90	61.40		48.70		13.00	8.30		7.20	
TOTAL	133.60	1807.66	444.70	9838.63	7857.45	3670.50	2971.38	1549.00	559.70	307.20	206.20	237.70	29583.70 CMSDAY
MEAN	4.45	58.31	14.82	317.38	253.47	122.35	95.85	51.63	18.05	9.91	7.36	7.67	81.05 CMS
MAX	5.00	378.00	69.40	1219.80	692.00	629.10	308.08	219.50	27.50	12.60	7.80	8.90	1219.80 CMS
MIN	4.00	4.20	8.00	6.80	61.40	37.40	36.80	25.50	13.00	8.30	7.00	6.60	4.00 CMS
RUNOFF	11.543	156.182	38.422	850.057	678.884	317.131	256.727	133.833	48.358	26.542	17.816	20.537	2556.031 MCM

MOMENTARY PEAK 1371.60 CMS, AT 152.72 M (MSL), AT 5.00 HOURS, ON JUL 8, 1981

RUNOFF YIELD 10.63 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 179.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

YOM RIVER BASIN

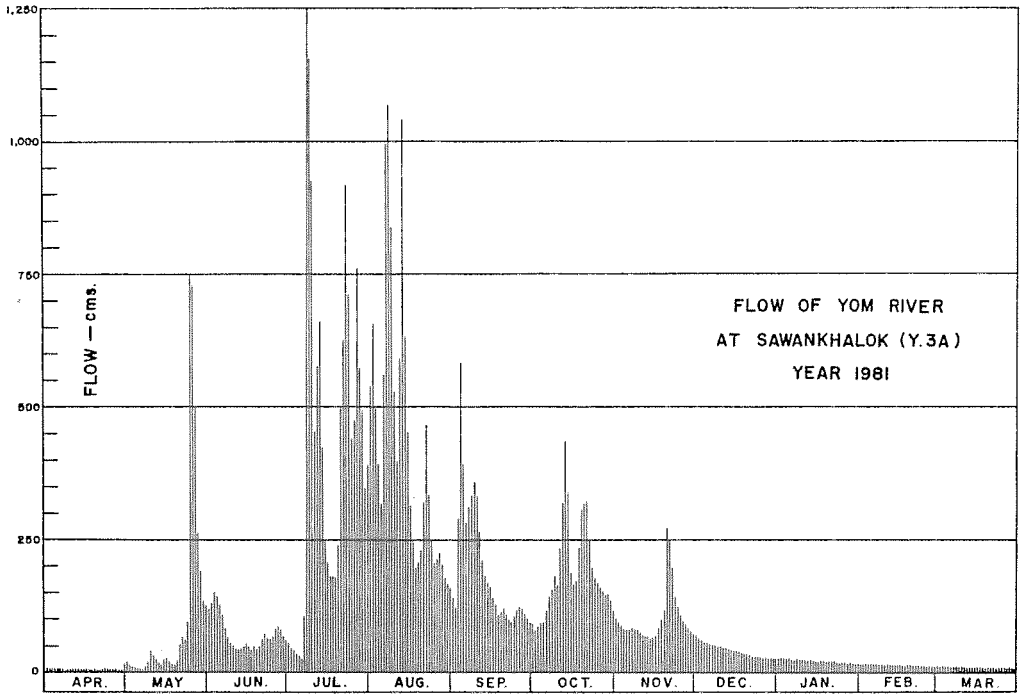
YOM RIVER AT SAWANKHALOK, SUKHOTHAI (Y.3A)

LOCATION	LAT. 17°-18'-29" N., LONG. 99°-49'-43" E., ON RIGHT BANK ABOUT 100 METERS DOWNSTREAM FROM SAWANKHALOK BRIDGE, AMPHOE SAWANKHALOK, SUKHOTHAI.
DRAINAGE AREA	13,583 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+51.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT SIDE 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +60.72 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 48 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.37	51.89	53.45	52.58	57.08	53.60	53.00	53.18	52.75	52.00	51.76	51.57	
2	51.37	51.72	53.58	52.47	57.47	53.48	52.98	53.08	52.70	52.00	51.76	51.57	
3	51.37	51.62	53.79	52.33	56.51	55.72	53.08	53.02	52.66	52.00	51.74	51.56	
4	51.37	51.55	53.63	52.18	55.69	57.05	53.14	52.98	52.61	52.00	51.73	51.56	
5	51.37	51.51	53.47	52.08	55.32	55.66	53.15	52.92	52.59	51.99	51.72	51.55	
6	51.37	51.49	53.20	52.06	56.95	55.06	53.50	53.01	52.55	51.99	51.71	51.54	
7	51.37	51.47	52.92	53.60	59.33	55.30	53.75	52.99	52.52	51.98	51.70	51.54	
8	51.37	51.60	52.75	59.77	59.69	55.37	53.83	52.94	52.50	51.95	51.70	51.54	
9	51.37	51.80	52.61	60.90	58.01	55.56	54.10	52.89	52.47	51.94	51.70	51.53	
10	51.37	52.32	52.48	59.50	56.47	55.34	53.93	52.86	52.44	51.92	51.70	51.52	
11	51.37	52.08	52.35	56.23	55.84	54.69	54.87	52.82	52.41	51.92	51.69	51.52	
12	51.38	51.89	52.38	57.11	57.40	54.29	55.59	52.80	52.38	51.91	51.69	51.52	
13	51.40	51.85	52.40	57.50	59.56	54.04	56.09	52.75	52.35	51.90	51.68	51.51	
14	51.40	51.77	52.45	55.83	57.59	53.96	55.01	52.71	52.33	51.90	51.67	51.51	
15	51.40	51.99	52.57	54.73	56.05	53.87	54.20	52.75	52.31	51.89	51.67	51.50	
16	51.40	51.96	52.48	54.17	55.22	53.61	53.93	52.79	52.28	51.89	51.68	51.50	
17	51.39	51.79	52.36	54.08	54.66	53.41	54.00	52.93	52.26	51.88	51.69	51.49	
18	51.38	51.68	52.46	54.08	54.27	53.30	54.76	53.28	52.23	51.87	51.69	51.49	
19	51.38	51.69	52.39	54.11	54.37	53.36	55.26	53.49	52.20	51.86	51.65	51.48	
20	51.38	52.04	52.44	54.74	54.71	53.36	55.28	54.92	52.18	51.86	51.62	51.48	
21	51.38	52.64	52.76	57.02	55.46	53.29	55.30	54.75	52.15	51.85	51.61	51.48	
22	51.39	52.76	52.88	57.41	56.31	53.19	54.71	54.05	52.13	51.85	51.61	51.48	
23	51.40	52.71	52.71	58.93	55.28	53.15	54.26	53.64	52.10	51.83	51.60	51.49	
24	51.40	53.38	52.70	57.80	54.67	53.34	54.00	53.49	52.08	51.82	51.60	51.49	
25	51.38	58.05	52.70	56.12	54.32	53.48	53.96	53.23	52.07	51.82	51.60	51.49	
26	51.38	57.85	53.02	56.38	54.48	53.43	53.80	53.10	52.07	51.81	51.59	51.48	
27	51.36	55.93	53.09	58.06	54.53	53.42	53.78	53.01	52.05	51.81	51.58	51.48	
28	51.37	54.59	52.95	56.95	54.27	53.34	53.69	52.94	52.03	51.79	51.58	51.48	
29	51.37	53.89	52.78	56.33	54.04	53.19	53.72	52.87	52.01	51.78		51.48	
30	51.71	53.60	52.61	55.52	53.92	53.10	53.52	52.80	52.00	51.78		51.48	
31		53.49		55.90	53.85		53.32		52.00	51.77		51.49	
MEAN	51.39	52.73	52.81	55.69	55.91	54.10	54.11	53.17	52.30	51.89	51.67	51.51	
MAX	51.71	58.05	53.79	60.90	59.69	57.05	56.09	54.92	52.75	52.00	51.76	51.57	60.90
MIN	51.37	51.47	52.35	52.06	53.85	53.10	52.98	52.71	52.00	51.77	51.58	51.48	51.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 60.92 M (MSL), AT 8.00 HOURS, ON JUL 9, 1981
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 60.71 M (MSL), DRAINAGE AREA 13583 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.4	18.6	119.5	53.8	588.8	133.0	82.0	96.4	64.5	23.0	13.8	8.1	
2	3.4	12.6	131.2	47.2	653.9	122.2	80.6	88.4	61.0	23.0	13.8	8.1	
3	3.4	9.6	150.1	38.8	497.6	377.8	88.4	83.6	58.6	23.0	13.2	7.8	
4	3.4	7.5	135.7	31.0	373.6	584.0	93.2	80.6	55.6	23.0	12.9	7.8	
5	3.4	6.3	121.3	26.2	322.6	369.4	94.0	76.4	54.4	22.6	12.6	7.5	
6	3.4	5.8	98.0	25.4	568.0	288.8	124.0	82.8	52.0	22.6	12.3	7.2	
7	3.4	5.4	76.4	133.0	993.0	320.0	146.5	81.3	50.2	22.2	12.0	7.2	
8	3.4	9.0	64.5	1083.7	1066.9	329.1	153.7	77.8	49.0	21.0	12.0	7.2	
9	3.4	15.0	55.6	1334.0	745.7	355.4	180.0	74.3	47.2	20.6	12.0	6.9	
10	3.4	38.2	47.8	1027.0	491.2	325.2	163.0	72.2	45.4	19.8	12.0	6.6	
11	3.4	26.2	40.0	453.5	395.0	243.8	265.4	69.4	43.6	19.8	11.7	6.6	
12	3.6	18.6	41.8	593.6	642.0	199.0	359.6	68.0	41.8	19.4	11.7	6.6	
13	4.0	17.0	43.0	659.0	1039.6	174.0	432.5	64.5	40.0	19.0	11.4	6.3	
14	4.0	14.1	46.0	393.5	674.3	166.0	282.3	61.7	38.8	19.0	11.1	6.3	
15	4.0	22.6	53.2	248.6	426.5	157.3	190.0	64.5	37.6	18.6	11.1	6.0	
16	4.0	21.4	47.8	187.0	309.6	133.9	163.0	67.3	36.0	18.6	11.4	6.0	
17	3.8	14.7	40.6	178.0	240.2	115.9	170.0	77.1	35.0	18.2	11.7	5.8	
18	3.6	11.4	46.6	178.0	197.0	106.0	252.2	104.4	33.5	17.8	11.7	5.8	
19	3.6	11.7	42.4	181.0	207.7	111.4	314.8	123.1	32.0	17.4	10.5	5.6	
20	3.6	24.6	45.4	249.8	246.2	111.4	317.4	271.4	31.0	17.4	9.6	5.6	
21	3.6	57.4	65.2	579.2	341.4	105.2	320.0	251.0	29.5	17.0	9.3	5.6	
22	3.8	65.2	73.6	643.7	465.6	97.2	246.2	175.0	28.5	17.0	9.3	5.6	
23	4.0	61.7	61.7	915.7	317.4	94.0	196.0	136.6	27.0	16.2	9.0	5.8	
24	4.0	113.2	61.0	710.0	241.4	109.6	170.0	123.1	26.2	15.8	9.0	5.8	
25	3.6	752.5	61.0	437.0	202.2	122.2	166.0	100.4	25.8	15.8	9.0	5.8	
26	3.6	720.2	83.6	476.8	219.8	117.7	151.0	90.0	25.8	15.4	8.7	5.6	
27	3.6	408.5	89.2	757.6	225.3	116.8	149.2	82.8	25.0	15.4	8.4	5.6	
28	3.4	231.9	78.5	568.0	197.0	109.6	141.1	77.8	24.2	14.7	8.4	5.6	
29	3.4	159.1	66.6	468.8	174.0	97.2	143.8	72.9	23.4	14.4		5.6	
30	12.3	133.0	55.6	349.8	162.0	90.0	125.8	68.0	23.0	14.4		5.6	
31		123.1		404.0	155.5		107.8		23.0	14.1		5.8	
TOTAL	116.9	3136.1	2142.9	13432.7	13381.0	5783.1	5869.5	2962.8	1188.6	576.2	309.6	197.4	49096.7 CMSDAY
MEAN	3.9	101.2	71.4	433.3	431.6	192.8	189.3	98.8	38.3	18.6	11.1	6.4	134.5 CMS
MAX	12.3	752.5	150.1	1334.0	1066.9	584.0	432.5	271.4	64.5	23.0	13.8	8.1	1334.0 CMS
MIN	3.4	5.4	40.0	25.4	155.5	90.0	80.6	61.7	23.0	14.1	8.4	5.6	3.4 CMS
RUNOFF	10.10	270.96	185.15	1160.58	1156.12	499.66	507.12	255.99	102.69	49.78	26.75	17.06	4241.96 MCM

MOMENTARY PEAK 1338.80 CMS, AT 60.92 M (MSL), AT 8.00 HOURS, ON JUL 9, 1981
RUNOFF YIELD 9.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 98.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

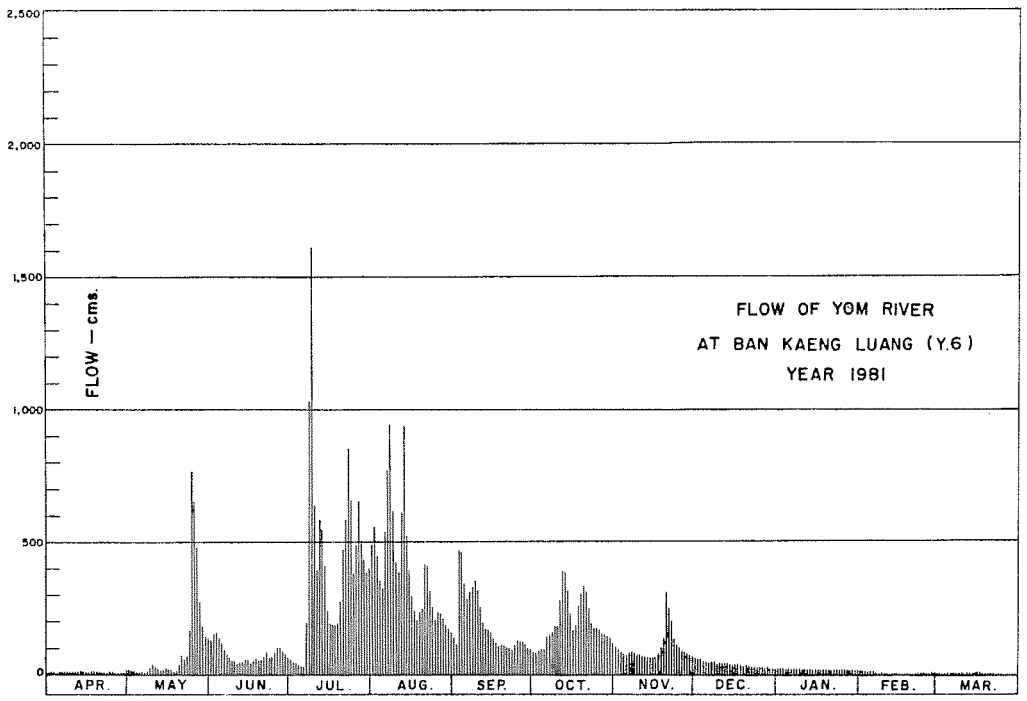
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 114 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW DIVERTED FOR IRRIGATION OF ABOUT 24,000 HECTARES AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	59.44	59.94	61.42	60.73	63.65	61.45	60.97	61.11	60.76	60.11	59.82	59.62	
2	59.44	59.81	61.60	60.61	63.65	61.36	60.97	61.03	60.71	60.11	59.81	59.62	
3	59.45	59.73	61.65	60.48	63.12	63.29	61.06	60.99	60.67	60.10	59.80	59.61	
4	59.43	59.66	61.51	60.37	62.80	63.27	61.10	60.94	60.64	60.09	59.79	59.60	
5	59.43	59.63	61.40	60.28	62.63	62.70	61.12	60.93	60.61	60.07	59.77	59.60	
6	59.46	59.61	61.15	60.28	63.87	62.45	61.51	61.00	60.58	60.06	59.76	59.60	
7	59.46	59.67	60.97	62.28	64.62	62.65	61.57	60.99	60.55	60.05	59.76	59.60	
8	59.44	59.77	60.82	65.68	64.86	62.66	61.71	60.93	60.53	60.03	59.76	59.60	
9	59.43	60.26	60.69	66.57	63.76	62.79	61.84	60.89	60.50	60.02	59.76	59.59	
10	59.46	60.40	60.57	64.63	63.11	62.56	61.82	60.87	60.48	60.01	59.76	59.58	
11	59.46	60.16	60.48	63.00	62.95	62.16	62.43	60.83	60.48	59.99	59.74	59.58	
12	59.45	60.04	60.55	63.73	64.08	61.89	62.98	60.82	60.45	59.98	59.74	59.58	
13	59.46	59.97	60.57	63.59	64.84	61.75	62.94	60.78	60.43	59.98	59.73	59.57	
14	59.45	59.96	60.65	62.73	63.52	61.72	62.33	60.77	60.41	59.98	59.73	59.56	
15	59.43	60.20	60.70	62.18	62.92	61.62	61.92	60.79	60.40	59.97	59.73	59.55	
16	59.45	60.05	60.61	61.87	62.54	61.42	61.68	60.82	60.38	59.96	59.72	59.54	
17	59.47	59.89	60.51	61.86	62.21	61.27	61.85	60.99	60.36	59.95	59.74	59.54	
18	59.45	59.81	60.63	61.87	61.95	61.19	62.46	61.32	60.33	59.93	59.71	59.54	
19	59.44	59.87	60.60	61.89	62.19	61.27	62.58	61.49	60.31	59.93	59.68	59.53	
20	59.45	60.48	60.71	62.59	62.23	61.27	62.66	62.56	60.30	59.93	59.67	59.53	
21	59.52	60.87	60.94	63.61	63.07	61.20	62.57	62.20	60.28	59.92	59.67	59.53	
22	59.50	60.73	60.97	63.82	63.06	61.14	62.19	61.76	60.25	59.91	59.66	59.53	
23	59.47	60.68	60.84	64.59	62.50	61.13	61.90	61.45	60.21	59.90	59.65	59.52	
24	59.48	61.96	60.81	63.64	62.17	61.30	61.75	61.26	60.20	59.89	59.65	59.52	
25	59.48	64.33	60.88	62.95	61.95	61.39	61.70	61.14	60.19	59.89	59.65	59.52	
26	59.46	63.72	61.16	63.44	62.15	61.33	61.60	61.05	60.18	59.88	59.64	59.52	
27	59.44	62.76	61.14	63.97	62.10	61.33	61.59	60.98	60.16	59.88	59.63	59.52	
28	59.43	62.10	61.03	63.33	61.92	61.24	61.52	60.93	60.14	59.86	59.62	59.51	
29	59.46	61.67	60.87	63.14	61.79	61.12	61.55	60.87	60.13	59.85		59.51	
30	60.11	61.50	60.77	62.93	61.71	61.05	61.41	60.81	60.12	59.84		59.51	
31		61.43		63.04	61.63		61.26		60.11	59.83		59.52	
MEAN	59.48	60.67	60.91	62.76	62.89	61.77	61.82	61.11	60.38	59.96	59.72	59.56	
MAX	60.11	64.33	61.65	66.57	64.86	63.29	62.98	62.56	60.76	60.11	59.82	59.62	66.57
MIN	59.43	59.61	60.48	60.28	61.63	61.05	60.97	60.77	60.11	59.83	59.62	59.51	59.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 66.68 M (MSL), AT 18.00 HOURS, ON JUL 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 59.00 M (MSL), RIVER BED 57.80 M (MSL)
LEFT BANK ELEVATION 68.95 M (MSL)
RIGHT BANK ELEVATION 69.17 M (MSL), DRAINAGE AREA 12658 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.4	12.6	129.6	58.7	558.0	133.5	80.3	94.1	61.4	19.5	8.6	3.4	
2	0.4	8.3	153.0	48.8	558.0	122.2	80.3	86.0	56.9	19.5	8.3	3.4	
3	0.5	5.9	159.5	39.8	423.4	462.6	89.0	82.1	53.6	19.0	8.0	3.2	
4	0.3	4.2	141.3	33.2	355.0	457.8	93.0	77.6	51.2	18.6	7.7	3.0	
5	0.3	3.6	127.0	28.0	321.0	335.0	95.2	76.7	48.8	17.8	7.1	3.0	
6	0.6	3.2	98.5	28.0	621.0	287.0	141.3	83.0	46.6	17.4	6.8	3.0	
7	0.6	4.4	80.3	256.4	860.8	325.0	149.1	82.1	44.5	17.0	6.8	3.0	
8	0.4	7.1	66.8	1244.4	942.4	327.0	167.4	76.7	43.1	16.2	6.8	3.0	
9	0.3	27.0	55.2	1607.4	588.8	353.0	186.0	73.1	41.0	15.8	6.8	2.8	
10	0.6	35.0	45.9	864.2	421.2	307.4	183.0	71.3	39.8	15.4	6.8	2.6	
11	0.6	22.0	39.8	397.0	386.0	235.2	283.4	67.7	39.8	14.6	6.2	2.6	
12	0.5	16.6	44.5	580.4	684.0	193.5	392.6	66.8	38.0	14.2	6.2	2.6	
13	0.6	13.8	45.9	541.2	935.6	173.0	383.8	63.2	36.8	14.2	5.9	2.4	
14	0.5	14.2	52.0	341.0	521.6	168.8	265.4	62.3	35.6	14.2	5.9	2.2	
15	0.3	24.0	56.0	238.6	379.4	155.6	198.0	64.1	35.0	13.8	5.9	2.0	
16	0.5	17.0	48.8	190.5	303.6	129.6	163.4	66.8	33.8	13.4	5.6	1.8	
17	0.7	10.7	41.7	189.0	243.8	111.7	187.5	82.1	32.6	13.0	6.2	1.8	
18	0.5	8.3	50.4	190.5	202.5	102.9	288.8	117.4	30.8	12.2	5.3	1.8	
19	0.4	10.1	48.0	193.5	240.3	111.7	311.2	138.7	29.6	12.2	4.6	1.6	
20	0.5	39.8	56.9	313.1	247.4	111.7	327.0	307.4	29.0	12.2	4.4	1.6	
21	1.4	71.3	77.6	546.8	412.4	104.0	309.3	242.0	28.0	11.8	4.4	1.6	
22	1.0	58.7	80.3	606.0	410.2	97.4	240.3	174.4	26.5	11.4	4.2	1.6	
23	0.7	72.2	68.6	850.6	296.0	96.3	195.0	133.5	24.5	11.0	4.0	1.4	
24	0.8	204.0	65.9	555.2	236.9	115.0	173.0	110.6	24.0	10.7	4.0	1.4	
25	0.8	763.6	72.2	386.0	202.5	125.8	166.0	97.4	23.5	10.7	4.0	1.4	
26	0.6	577.6	99.6	500.4	233.5	118.6	153.0	88.0	23.0	10.4	3.8	1.4	
27	0.4	347.0	97.4	651.0	225.0	118.6	151.7	81.2	22.0	10.4	3.6	1.4	
28	0.3	225.0	86.0	472.5	198.0	108.4	142.6	76.7	21.0	9.8	3.4	1.2	
29	0.6	162.1	71.3	427.8	178.6	95.2	146.5	71.3	20.5	9.5		1.2	
30	19.5	140.0	62.3	381.6	167.4	88.0	128.3	65.9	20.0	9.2		1.2	
31		130.9		405.6	156.9		110.6		19.5	8.9		1.4	
TOTAL	35.6	3040.2	2322.3	13167.4	12511.2	5671.5	5982.0	2980.2	1080.4	424.0	161.3	66.0	47442.0 CMSDAY
MEAN	1.2	98.1	77.4	424.8	403.6	189.0	193.0	99.3	34.9	13.7	5.8	2.1	130.0 CMS
MAX	19.5	763.6	159.5	1607.4	942.4	462.6	392.6	307.4	61.4	19.5	8.6	3.4	1607.4 CMS
MIN	0.3	3.2	39.8	28.0	156.9	88.0	80.3	62.3	19.5	8.9	3.4	1.2	0.3 CMS
RUNOFF	3.08	262.67	200.65	1137.66	1080.97	490.02	516.84	257.49	93.35	36.63	13.94	5.70	4098.99 MCM

MOMENTARY PEAK 1653.60 CMS, AT 66.68 M (MSL), AT 18.00 HOURS, ON JUL 9, 1981

RUNOFF YIELD 10.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 130.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

YOM RIVER BASIN

NGAO RIVER AT NGAO, LAMPANG (Y.13)

LOCATION — LAT. 18-45-06 N., LONG. 99-58-53 E., ON LEFT BANK AT DOWNSTREAM SIDE OF NGAO BRIDGE, AMPHOE NGAO, LAMPANG.

DRAINAGE AREA — 382 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

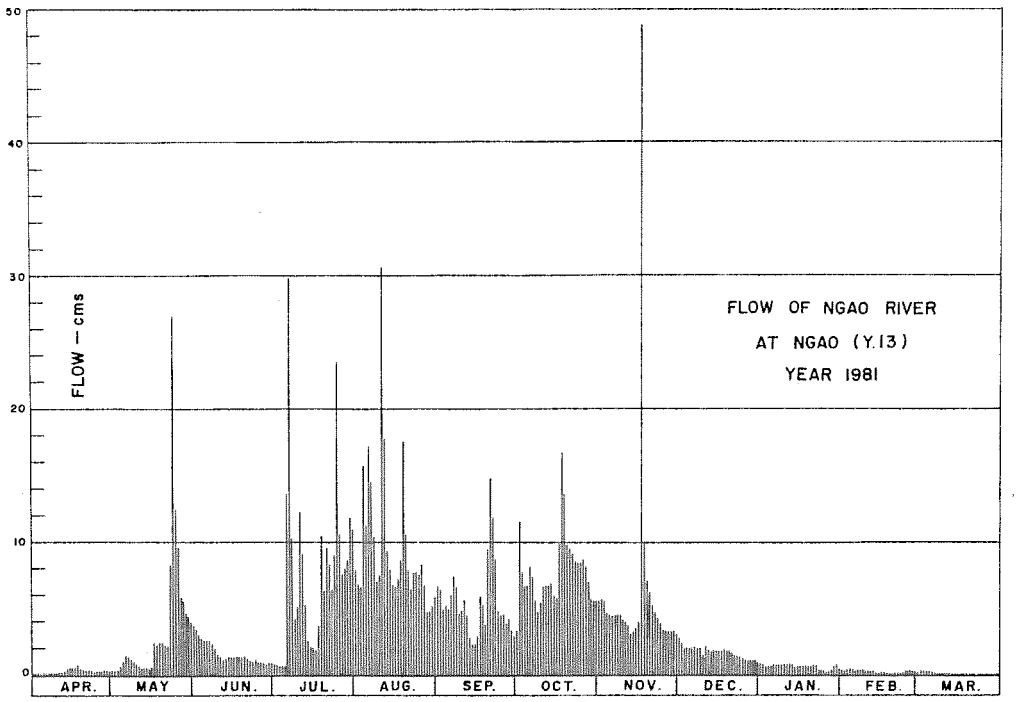
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	266.42	266.47	266.76	266.55	266.92	266.90	266.76	266.85	266.69	266.54	266.48	266.46	
2	266.42	266.46	266.74	266.54	266.90	266.89	267.06	266.85	266.67	266.53	266.48	266.46	
3	266.42	266.47	266.72	266.54	266.90	266.82	266.90	266.83	266.65	266.53	266.49	266.46	
4	266.42	266.53	266.70	266.54	267.16	266.84	266.90	266.80	266.66	266.53	266.50	266.46	
5	266.42	266.58	266.70	266.54	267.05	266.83	266.91	266.80	266.66	266.54	266.50	266.46	
6	266.42	266.62	266.70	267.22	267.19	266.88	266.95	266.80	266.66	266.54	266.49	266.45	
7	266.42	266.59	266.70	267.39	267.14	266.93	266.89	266.80	266.66	266.54	266.46	266.44	
8	266.42	266.58	266.69	266.91	267.01	266.90	266.84	266.80	266.66	266.54	266.46	266.44	
9	266.42	266.55	266.64	266.79	266.92	266.81	266.81	266.80	266.65	266.54	266.46	266.44	
10	266.42	266.54	266.62	266.90	266.94	266.83	266.86	266.78	266.60	266.54	266.46	266.44	
11	266.43	266.53	266.60	267.08	267.40	266.85	266.90	266.78	266.67	266.54	266.46	266.44	
12	266.45	266.51	266.58	266.94	267.14	266.80	266.90	266.75	266.64	266.54	266.46	266.44	
13	266.48	266.50	266.59	266.83	266.99	266.71	266.90	266.73	266.64	266.54	266.45	266.44	
14	266.50	266.50	266.60	266.70	266.93	266.68	266.90	266.74	266.64	266.53	266.43	266.44	
15	266.52	266.51	266.60	266.66	266.90	266.68	266.87	266.76	266.64	266.52	266.43	266.44	
16	266.52	266.53	266.60	266.66	266.90	266.73	266.86	266.76	266.64	266.52	266.43	266.43	
17	266.53	266.59	266.60	266.64	266.92	266.87	267.10	267.60	266.64	266.52	266.43	266.43	
18	266.51	266.68	266.60	266.79	266.99	266.82	267.18	267.06	266.64	266.52	266.43	266.42	
19	266.49	266.68	266.60	267.03	267.20	266.77	267.02	266.91	266.64	266.52	266.43	266.42	
20	266.47	266.69	266.60	266.89	267.01	267.09	267.00	266.87	266.63	266.52	266.43	266.42	
21	266.48	266.66	266.58	267.00	266.94	267.14	267.00	266.83	266.62	266.52	266.43	266.42	
22	266.48	266.68	266.56	266.96	266.89	267.04	266.99	266.80	266.61	266.52	266.43	266.42	
23	266.48	267.02	266.56	266.90	266.94	266.88	266.96	266.78	266.60	266.49	266.43	266.42	
24	266.46	267.35	266.58	267.05	266.94	266.80	266.96	266.77	266.60	266.46	266.43	266.42	
25	266.46	267.06	266.55	267.30	266.93	266.80	266.96	266.74	266.59	266.46	266.44	266.42	
26	266.46	267.00	266.55	266.98	266.96	266.80	266.97	266.74	266.58	266.46	266.45	266.42	
27	266.46	266.85	266.55	266.94	266.88	266.77	266.95	266.74	266.58	266.47	266.46	266.42	
28	266.48	266.85	266.55	266.96	266.81	266.78	266.89	266.74	266.58	266.51	266.46	266.42	
29	266.47	266.80	266.55	266.98	266.81	266.72	266.85	266.74	266.58	266.52		266.42	
30	266.48	266.80	266.55	267.07	266.85	266.72	266.85	266.73	266.57	266.52		266.42	
31		266.77		267.05	266.88		266.85		266.54	266.49		266.42	
MEAN	266.46	266.58	266.62	266.88	266.98	266.84	266.93	266.82	266.63	266.52	266.45	266.43	
MAX	266.53	267.35	266.76	267.39	267.40	267.14	267.18	267.60	266.69	266.54	266.50	266.46	267.60
MIN	266.42	266.46	266.55	266.54	266.81	266.68	266.76	266.73	266.54	266.46	266.43	266.42	266.42

ANNUAL MAX MOMENTARY GAGE HEIGHT 267.70 M (MSL), AT 9.00 HOURS, ON NOV 17, 1981

ZERO GAGE AT BOTTOM ELEVATION 266.30 M (MSL), RIVER BED 266.13 M (MSL)

LEFT BANK ELEVATION 274.55 M (MSL)

RIGHT BANK ELEVATION 273.86 M (MSL). DRAINAGE AREA 382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.28	3.68	0.85	7.16	6.60	3.68	5.50	2.47	0.76	0.32	0.24	
2	0.08	0.24	3.32	0.76	6.60	6.38	11.50	5.50	2.21	0.67	0.32	0.24	
3	0.08	0.28	2.96	0.76	6.60	4.84	6.60	5.06	1.95	0.67	0.36	0.24	
4	0.08	0.67	2.60	0.76	15.72	5.28	6.60	4.40	2.08	0.67	0.40	0.24	
5	0.08	1.12	2.60	0.76	11.15	5.06	6.88	4.40	2.08	0.76	0.40	0.24	
6	0.08	1.56	2.60	18.76	17.13	6.16	8.00	4.40	2.08	0.76	0.36	0.20	
7	0.08	1.21	2.60	29.70	14.78	7.44	6.38	4.40	2.08	0.76	0.24	0.16	
8	0.08	1.12	2.47	6.88	9.75	6.60	5.28	4.40	2.08	0.76	0.24	0.16	
9	0.08	0.85	1.82	4.22	7.16	4.62	4.62	4.40	1.95	0.76	0.24	0.16	
10	0.08	0.76	1.56	6.60	7.72	5.06	5.72	4.04	1.30	0.76	0.24	0.16	
11	0.12	0.67	1.30	12.20	30.40	5.50	6.60	4.04	2.21	0.76	0.24	0.16	
12	0.20	0.49	1.12	7.72	14.78	4.40	6.60	3.50	1.82	0.76	0.24	0.16	
13	0.32	0.40	1.21	5.06	9.12	2.78	6.60	3.14	1.82	0.76	0.20	0.16	
14	0.40	0.40	1.30	2.60	7.44	2.34	6.60	3.32	1.82	0.67	0.12	0.16	
15	0.58	0.49	1.30	2.08	6.60	2.34	5.94	3.68	1.82	0.58	0.12	0.16	
16	0.58	0.67	1.30	2.08	6.60	3.14	5.72	3.68	1.82	0.58	0.12	0.12	
17	0.67	2.47	1.30	1.82	7.16	5.94	12.90	48.60	1.82	0.58	0.12	0.12	
18	0.49	2.34	1.30	4.22	9.12	4.84	16.66	11.50	1.82	0.58	0.12	0.08	
19	0.36	2.34	1.30	10.45	17.60	3.86	10.10	6.88	1.82	0.58	0.12	0.08	
20	0.28	2.47	1.30	6.38	9.75	12.55	9.40	5.94	1.69	0.58	0.12	0.08	
21	0.32	2.08	1.12	9.40	7.72	14.78	9.40	5.06	1.56	0.58	0.12	0.08	
22	0.32	2.34	0.94	8.28	6.38	10.80	9.12	4.40	1.43	0.58	0.12	0.08	
23	0.32	10.10	0.94	6.60	7.72	6.16	8.28	4.04	1.30	0.36	0.12	0.08	
24	0.24	26.90	1.12	11.15	7.72	4.40	8.28	3.86	1.30	0.24	0.12	0.08	
25	0.24	11.50	0.85	23.40	7.44	4.40	8.28	3.32	1.21	0.24	0.16	0.08	
26	0.24	9.40	0.85	8.84	8.28	4.40	8.56	3.32	1.12	0.24	0.20	0.08	
27	0.24	5.50	0.85	7.72	6.16	3.86	8.00	3.32	1.12	0.28	0.24	0.08	
28	0.32	5.50	0.85	8.28	4.62	4.04	6.38	3.32	1.12	0.49	0.24	0.08	
29	0.28	4.40	0.85	8.84	4.62	2.96	5.50	3.32	1.12	0.58		0.08	
30	0.32	4.40	0.85	11.85	5.50	2.96	5.50	3.14	1.03	0.58		0.08	
31		3.86		11.15	6.16		5.50		0.76	0.36		0.08	
TOTAL	7.64	106.81	48.16	240.17	294.66	164.49	235.18	177.88	51.81	18.29	5.96	4.20	1355.25 CMSDAY
MEAN	0.25	3.45	1.61	7.75	9.51	5.48	7.59	5.93	1.67	0.59	0.21	0.14	3.71 CMS
MAX	0.67	26.90	3.68	29.70	30.40	14.78	16.66	48.60	2.47	0.76	0.40	0.24	48.60 CMS
MIN	0.08	0.24	0.85	0.76	4.62	2.34	3.68	3.14	0.76	0.24	0.12	0.08	0.08 CMS
RUNOFF	0.660	9.228	4.161	20.751	25.459	14.212	20.320	15.369	4.476	1.580	0.515	0.363	117.093 MCM

MOMENTARY PEAK 61.00 CMS, AT 267.70 M (MSL), AT 9.00 HOURS, ON NOV 17, 1981

RUNOFF YIELD 9.72 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 159.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

YOM RIVER BASIN

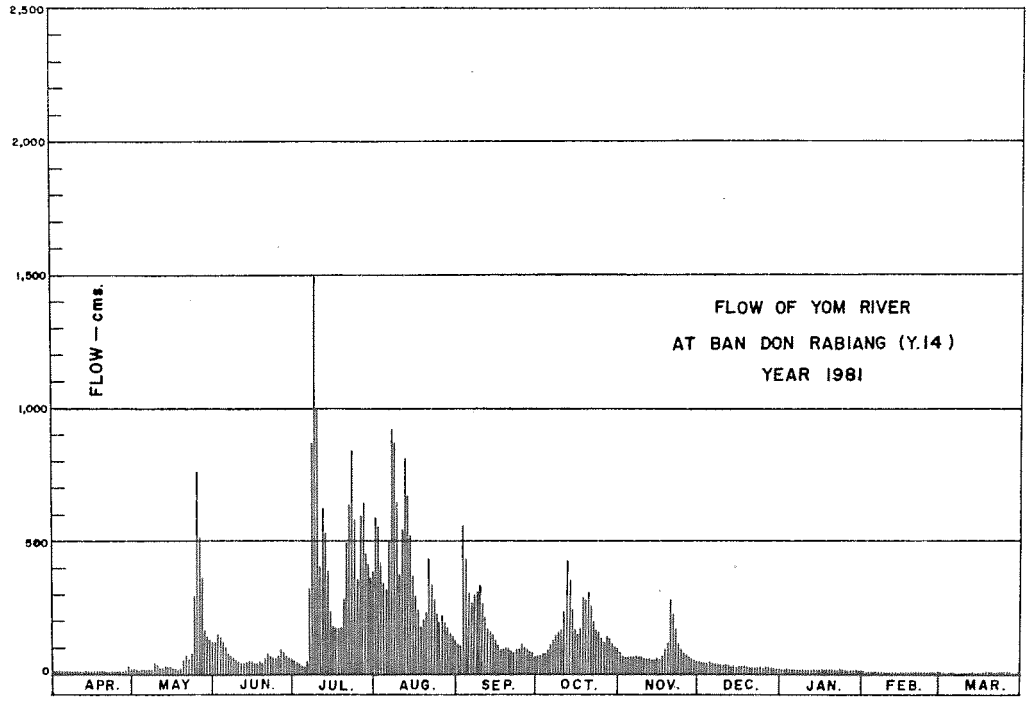
YOM RIVER AT BAN DON RABIANG, SUKHOTHAI (Y.14)

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 KILOMETER MARKER 44 TH., AMPHOE SI SATCHANALAI, SUKHOTHAI.
DRAINAGE AREA	12,131 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	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	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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 53 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	65.80	66.09	67.47	66.70	70.28	67.38	66.92	67.04	66.69	66.19	65.98	65.84	
2	65.79	66.01	67.72	66.58	70.11	67.43	66.96	66.97	66.66	66.19	65.98	65.84	
3	65.79	65.95	67.66	66.47	69.36	70.13	67.06	66.93	66.62	66.18	65.97	65.83	
4	65.79	65.91	67.49	66.38	68.96	69.38	67.06	66.87	66.59	66.17	65.96	65.83	
5	65.80	65.89	67.30	66.33	68.87	68.72	67.15	66.89	66.57	66.16	65.95	65.83	
6	65.80	65.90	67.05	66.38	70.82	68.58	67.59	66.94	66.54	66.16	65.95	65.83	
7	65.79	66.02	66.89	69.43	71.67	68.78	67.57	66.92	66.53	66.15	65.95	65.82	
8	65.81	66.01	66.77	73.03	71.44	68.80	67.80	66.86	66.50	66.13	65.94	65.82	
9	65.83	66.57	66.66	73.75	70.03	68.98	67.78	66.83	66.49	66.13	65.94	65.81	
10	65.82	66.41	66.55	70.78	69.25	68.58	67.97	66.80	66.47	66.12	65.94	65.81	
11	65.80	66.23	66.48	69.39	70.11	68.16	68.54	66.78	66.46	66.11	65.94	65.81	
12	65.79	66.20	66.52	70.44	71.25	67.90	69.45	66.77	66.43	66.11	65.93	65.80	
13	65.79	66.13	66.56	69.93	70.63	67.77	69.00	66.72	66.42	66.11	65.93	65.79	
14	65.79	66.26	66.68	68.85	69.79	67.73	68.29	66.75	66.41	66.10	65.93	65.79	
15	65.80	66.29	66.66	68.24	69.03	67.59	67.86	66.78	66.39	66.10	65.95	65.78	
16	65.81	66.15	66.55	67.95	68.60	67.36	67.68	66.82	66.38	66.09	65.94	65.78	
17	65.80	66.04	66.55	67.90	68.27	67.23	67.94	67.00	66.36	66.09	65.92	65.78	
18	65.79	66.02	66.62	67.92	68.03	67.20	68.70	67.32	66.34	66.08	65.89	65.77	
19	65.81	66.19	66.53	67.95	68.28	67.26	68.66	67.31	66.33	66.08	65.88	65.77	
20	65.86	66.67	66.82	69.09	68.43	67.23	68.85	68.64	66.32	66.07	65.88	65.77	
21	65.83	66.92	66.99	70.11	69.52	67.15	68.62	68.14	66.31	66.06	65.87	65.76	
22	65.82	66.74	66.93	70.59	69.21	67.08	68.19	67.63	66.28	66.05	65.87	65.76	
23	65.82	67.03	66.85	71.35	68.55	67.11	67.86	67.35	66.25	66.05	65.87	65.76	
24	65.81	68.89	66.79	69.96	68.22	67.27	67.76	67.17	66.25	66.04	65.85	65.76	
25	65.80	71.02	66.95	69.13	68.06	67.33	67.67	67.05	66.24	66.04	65.85	65.76	
26	65.78	70.07	67.20	70.21	68.29	67.26	67.58	66.95	66.24	66.03	65.85	65.76	
27	65.79	68.84	67.08	70.52	68.12	67.28	67.67	66.89	66.22	66.03	65.85	65.76	
28	65.80	68.09	66.96	69.62	67.91	67.17	67.53	66.84	66.20	66.02	65.84	65.75	
29	66.42	67.65	66.80	69.45	67.75	67.06	67.39	66.79	66.20	66.01		65.75	
30	66.15	67.52	66.75	69.16	67.72	66.97	67.28	66.73	66.19	66.00		65.75	
31		67.47		69.48	67.56		67.14		66.19	65.99		65.75	
MEAN	65.84	66.88	66.89	69.13	69.17	67.80	67.86	67.05	66.39	66.09	65.91	65.79	
MAX	66.42	71.02	67.72	73.75	71.67	70.13	69.45	68.64	66.69	66.19	65.98	65.84	73.75
MIN	65.78	65.89	66.48	66.33	67.56	66.97	66.92	66.72	66.19	65.99	65.84	65.75	65.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 73.88 M (MSL), AT 11.00 HOURS, ON JUL 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 65.10 M (MSL), RIVER BED 63.90 M (MSL)
LEFT BANK ELEVATION 78.36 M (MSL)
RIGHT BANK ELEVATION 77.14 M (MSL), DRAINAGE AREA 12131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.0	14.6	117.0	47.0	587.8	108.0	64.6	74.6	46.3	18.6	10.3	6.0	
2	4.7	11.4	147.6	38.8	552.1	113.0	67.8	68.6	44.2	18.6	10.3	6.0	
3	4.7	9.2	139.8	32.2	399.4	556.3	76.4	65.4	41.4	18.2	9.9	5.7	
4	4.7	7.8	119.0	27.0	329.2	403.2	76.4	60.6	39.4	17.8	9.6	5.7	
5	5.0	7.2	100.0	24.5	313.9	289.2	85.0	62.2	38.2	17.4	9.2	5.7	
6	5.0	7.5	75.5	27.0	711.6	267.0	130.8	66.2	36.4	17.4	9.2	5.7	
7	4.7	11.8	62.2	412.7	915.5	298.8	128.4	64.6	35.8	17.0	9.2	5.5	
8	5.2	11.4	52.6	1274.9	858.0	302.0	158.0	59.8	34.0	16.2	8.9	5.5	
9	5.7	38.2	44.2	1485.0	535.3	332.6	155.4	57.4	33.4	16.2	8.9	5.2	
10	5.5	28.6	37.0	702.4	379.0	267.0	180.1	55.0	32.2	15.8	8.9	5.2	
11	5.0	20.2	32.8	405.1	552.1	206.4	261.0	53.4	31.6	15.4	8.9	5.2	
12	4.7	19.0	35.2	624.2	812.0	171.0	416.5	52.6	29.8	15.4	8.5	5.0	
13	4.7	16.2	37.6	514.3	667.9	154.1	336.0	48.6	29.2	15.4	8.5	4.7	
14	4.7	21.4	45.6	310.5	484.9	148.9	224.6	51.0	28.6	15.0	8.5	4.7	
15	5.0	22.6	44.2	217.6	341.1	130.8	165.8	53.4	27.5	15.0	9.2	4.5	
16	5.2	17.0	37.0	177.5	270.0	106.0	142.4	56.6	27.0	14.6	8.9	4.5	
17	5.0	12.6	37.0	171.0	221.8	93.0	176.2	71.0	26.0	14.6	8.2	4.5	
18	4.7	11.8	41.4	173.6	188.2	90.0	286.0	102.0	25.0	14.2	7.2	4.2	
19	5.2	18.6	35.8	177.5	223.2	96.0	279.6	101.0	24.5	14.2	7.0	4.2	
20	6.5	44.9	56.6	351.3	244.5	93.0	310.5	276.4	24.0	13.8	7.0	4.2	
21	5.7	64.6	70.2	552.1	430.0	85.0	273.2	203.6	23.5	13.4	6.7	4.0	
22	5.5	50.2	65.4	658.7	371.8	78.2	210.6	135.9	22.2	13.0	6.7	4.0	
23	5.5	73.7	59.0	836.0	262.5	81.0	165.8	105.0	21.0	13.0	6.7	4.0	
24	5.2	317.3	54.2	520.6	214.8	97.0	152.8	87.0	21.0	12.6	6.2	4.0	
25	5.0	757.6	67.0	358.1	192.4	103.0	141.1	75.5	20.6	12.6	6.2	4.0	
26	4.5	543.7	90.0	573.1	224.6	96.0	129.6	67.0	20.6	12.2	6.2	4.0	
27	4.7	308.8	78.2	642.6	200.8	98.0	141.1	62.2	19.8	12.2	6.2	4.0	
28	5.0	196.6	67.8	450.0	172.3	87.0	123.6	58.2	19.0	11.8	6.0	3.7	
29	29.2	138.5	55.0	416.5	151.5	76.4	109.0	54.2	19.0	11.4		3.7	
30	17.0	122.4	51.0	363.2	147.6	68.6	98.0	49.4	18.6	11.0		3.7	
31		117.0		422.2	127.2		84.0		18.6	10.6		3.7	
TOTAL	188.2	3042.4	1955.9	12987.2	12083.0	5096.5	5350.3	2398.4	878.4	454.6	227.2	144.7	44806.7 CMSDAY
MEAN	6.3	98.1	65.2	418.9	389.8	169.9	172.6	79.9	28.3	14.7	8.1	4.7	122.8 CMS
MAX	29.2	757.6	147.6	1485.0	915.5	556.3	416.5	276.4	46.3	18.6	10.3	6.0	1485.0 CMS
MIN	4.5	7.2	32.8	24.5	127.2	68.6	64.6	48.6	18.6	10.6	6.0	3.7	3.7 CMS
RUNOFF	16.26	262.86	168.99	1122.09	1043.97	440.34	462.27	207.22	75.89	39.28	19.63	12.50	3871.30 MCM

MOMENTARY PEAK 1524.00 CMS, AT 73.88 M (MSL), AT 11.00 HOURS, ON JUL 9, 1981

RUNOFF YIELD 10.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 125.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

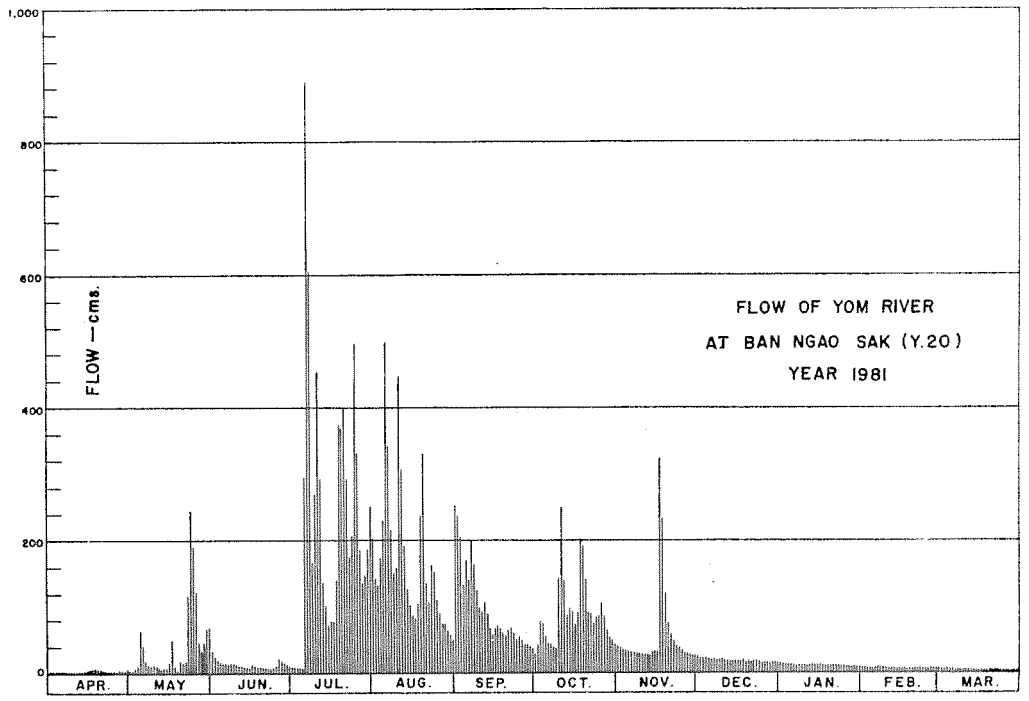
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 186 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	181.53	181.53	182.14	181.74	184.13	184.64	182.21	182.37	182.11	181.85	181.70	181.61	
2	181.52	181.52	182.12	181.72	183.69	184.54	182.39	182.34	182.09	181.84	181.70	181.61	
3	181.51	181.53	181.96	181.71	183.64	184.07	182.91	182.32	182.08	181.84	181.70	181.60	
4	181.50	181.82	181.94	181.70	184.30	183.63	182.90	182.28	182.06	181.83	181.70	181.60	
5	181.51	182.71	181.89	181.72	184.81	184.02	182.61	182.25	182.04	181.82	181.70	181.60	
6	181.50	182.21	181.86	185.78	186.07	183.75	182.51	182.24	182.03	181.82	181.69	181.60	
7	181.50	181.88	181.87	187.63	184.79	184.26	182.40	182.22	182.03	181.81	181.69	181.59	
8	181.49	181.79	181.86	185.14	184.24	183.99	182.37	182.22	182.02	181.81	181.68	181.59	
9	181.49	181.73	181.81	183.98	183.85	183.50	182.38	182.21	182.00	181.80	181.68	181.59	
10	181.48	181.76	181.80	185.21	183.98	183.19	184.19	182.21	181.99	181.80	181.67	181.59	
11	181.47	181.77	181.77	185.87	185.79	183.15	184.67	182.19	181.99	181.80	181.67	181.59	
12	181.47	181.69	181.75	184.49	184.55	183.36	183.55	182.16	181.99	181.79	181.66	181.58	
13	181.45	181.67	181.74	183.64	183.91	183.06	183.09	182.15	181.98	181.79	181.66	181.58	
14	181.54	181.65	181.72	183.19	183.50	182.82	183.24	182.26	181.98	181.78	181.66	181.58	
15	181.56	181.71	181.73	182.85	183.26	182.69	183.11	182.26	181.97	181.78	181.66	181.58	
16	181.57	181.83	181.82	182.98	183.07	182.91	182.85	182.29	181.97	181.77	181.65	181.57	
17	181.63	182.57	181.74	182.97	183.02	182.84	183.20	185.13	181.96	181.77	181.65	181.57	
18	181.70	181.60	181.72	183.89	183.42	182.79	184.30	184.37	181.95	181.77	181.65	181.56	
19	181.64	181.11	181.70	185.43	184.98	182.66	184.16	183.32	181.94	181.79	181.65	181.56	
20	181.63	181.94	181.70	185.42	185.18	182.65	183.59	182.86	181.92	181.79	181.64	181.56	
21	181.63	181.85	181.69	185.58	183.74	182.82	183.13	182.64	181.92	181.78	181.64	181.55	
22	181.58	181.97	181.68	184.98	183.34	182.87	183.16	182.48	181.91	181.77	181.64	181.55	
23	181.56	183.76	181.69	184.05	183.95	182.70	182.91	182.39	181.90	181.76	181.63	181.55	
24	181.56	184.64	181.70	184.61	183.83	182.58	183.08	182.33	181.90	181.75	181.63	181.55	
25	181.55	184.18	181.70	186.06	183.34	182.62	183.09	182.28	181.89	181.75	181.63	181.54	
26	181.54	183.13	182.02	184.70	183.10	182.55	183.33	182.23	181.88	181.74	181.62	181.54	
27	181.54	182.49	181.90	184.03	182.92	182.42	183.01	182.19	181.88	181.73	181.62	181.54	
28	181.54	182.27	181.83	183.68	182.94	182.42	182.71	182.18	181.87	181.73	181.61	181.55	
29	181.54	182.45	181.78	183.94	182.74	182.43	182.58	182.15	181.87	181.72		181.56	
30	181.54	182.84	181.75	184.38	182.62	182.33	182.50	182.12	181.86	181.71		181.56	
31		182.83		184.67	182.58		182.46		181.85	181.71		181.61	
MEAN	181.54	182.21	181.81	184.12	183.85	183.14	183.05	182.49	181.96	181.78	181.66	181.57	
MAX	181.70	184.64	182.14	187.63	186.07	184.64	184.67	185.13	182.11	181.85	181.70	181.61	187.63
MIN	181.45	181.11	181.68	181.70	182.58	182.33	182.21	182.12	181.85	181.71	181.61	181.54	181.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 188.85 M (MSL), AT 21.00 HOURS, ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 180.98 M (MSL), RIVER BED 180.55 M (MSL)
LEFT BANK ELEVATION 193.74 M (MSL)
RIGHT BANK ELEVATION 193.49 M (MSL), DRAINAGE AREA 5410 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.25	3.25	27.00	9.60	182.60	247.60	30.53	39.07	25.50	14.00	8.00	5.30	
2	3.00	3.00	26.00	8.80	137.10	234.20	40.13	37.47	24.50	13.60	8.00	5.30	
3	2.75	3.25	18.40	8.40	132.60	175.40	74.70	36.40	24.00	13.60	8.00	5.00	
4	2.50	12.80	17.60	8.00	203.00	131.70	74.00	34.27	23.00	13.20	8.00	5.00	
5	2.75	60.70	15.60	8.80	271.50	169.40	53.70	32.67	22.00	12.80	8.00	5.00	
6	2.50	30.53	14.40	440.00	498.35	142.50	46.70	32.13	21.50	12.80	7.70	5.00	
7	2.50	15.20	14.80	888.10	268.60	198.20	40.67	31.07	21.50	12.40	7.70	4.75	
8	2.25	11.60	14.40	323.40	195.80	166.00	39.07	31.07	21.00	12.40	7.40	4.75	
9	2.25	9.20	12.40	165.00	152.00	120.00	39.60	30.53	20.00	12.00	7.40	4.75	
10	2.00	10.40	12.00	334.70	165.00	94.30	189.60	30.53	19.60	12.00	7.10	4.75	
11	1.75	10.80	10.80	457.99	442.00	91.50	251.80	29.50	19.60	12.00	7.10	4.75	
12	1.75	7.70	10.00	227.70	235.50	107.80	124.50	28.00	19.60	11.60	6.80	4.50	
13	1.25	7.10	9.60	132.60	158.00	85.20	87.30	27.50	19.20	11.60	6.80	4.50	
14	3.50	6.50	8.80	94.30	120.00	68.40	98.20	33.20	19.20	11.20	6.80	4.50	
15	4.00	8.40	9.20	70.50	99.80	59.30	88.70	33.20	18.80	11.20	6.80	4.50	
16	4.25	13.20	12.80	79.60	85.90	74.70	70.50	34.80	18.80	10.80	6.50	4.25	
17	5.90	50.90	9.60	78.90	82.40	69.80	95.00	321.80	18.40	10.80	6.50	4.25	
18	8.00	5.00	8.80	156.00	112.80	66.30	203.00	212.10	18.00	10.80	6.50	4.00	
19	6.20	0.00	8.00	372.39	297.80	57.20	186.20	104.60	17.60	11.60	6.50	4.00	
20	5.90	17.60	8.00	370.59	329.80	56.50	128.10	71.20	16.80	11.60	6.20	4.00	
21	5.90	14.00	7.70	400.20	141.60	68.40	90.10	55.80	16.80	11.20	6.20	3.75	
22	4.50	18.80	7.40	297.80	106.20	71.90	92.20	44.93	16.40	10.80	6.20	3.75	
23	4.00	143.40	7.70	173.00	162.00	60.00	74.70	40.13	16.00	10.40	5.90	3.75	
24	4.00	247.60	8.00	243.40	150.00	51.60	86.60	36.93	16.00	10.00	5.90	3.75	
25	3.75	188.60	8.00	496.29	106.20	54.40	87.30	34.27	15.60	10.00	5.90	3.50	
26	3.50	90.10	21.00	256.00	88.00	49.50	105.40	31.60	15.20	9.60	5.60	3.50	
27	3.50	45.46	16.00	170.60	75.40	41.73	81.70	29.50	15.20	9.20	5.60	3.50	
28	3.50	33.73	13.20	136.20	76.80	41.73	60.70	29.00	14.80	9.20	5.30	3.75	
29	3.50	43.33	11.20	161.00	62.80	42.26	51.60	27.50	14.80	8.80		4.00	
30	3.50	69.80	10.00	213.40	54.40	36.93	46.00	26.00	14.40	8.40		4.00	
31		69.10		251.80	51.60		43.86		14.00	8.40		5.30	
TOTAL	107.90	1251.05	378.40	7035.05	5245.54	2934.45	2782.36	1586.77	577.80	348.00	190.40	135.40	22573.10 CMSDAY
MEAN	3.60	40.36	12.61	226.94	169.21	97.81	89.75	52.89	18.64	11.23	6.80	4.37	61.84 CMS
MAX	8.00	247.60	27.00	888.10	498.35	247.60	251.80	321.80	25.50	14.00	8.00	5.30	888.10 CMS
MIN	1.25	0.00	7.40	8.00	51.60	36.93	30.53	26.00	14.00	8.40	5.30	3.50	0.00 CMS
RUNOFF	9.323	108.091	32.694	607.828	453.215	253.536	240.396	137.097	49.922	30.067	16.451	11.699	1950.315 MCM

MOMENTARY PEAK 1244.00 CMS, AT 188.85 M (MSL), AT 21.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 11.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 229.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

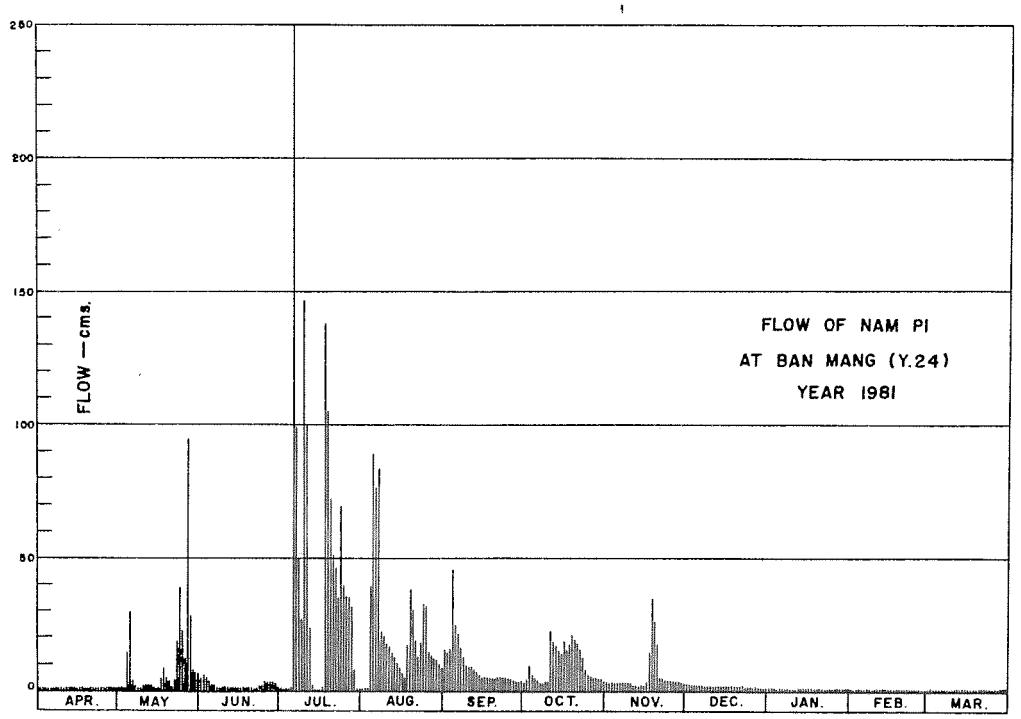
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	0.91	1.38	1.16	*******	1.78	1.26	1.31	1.25	1.16	1.09	1.07	
2	0.96	0.90	1.48	1.14	*******	1.76	1.26	1.31	1.25	1.16	1.09	1.07	
3	0.95	0.90	1.38	1.10	*******	1.81	1.57	1.30	1.24	1.15	1.09	1.06	
4	0.94	1.73	1.30	1.15	2.32	2.36	1.43	1.30	1.24	1.15	1.09	1.06	
5	0.93	2.07	1.23	1.17	2.95	1.97	1.35	1.30	1.23	1.15	1.10	1.06	
6	0.92	1.28	1.19	4.36	2.80	1.92	1.30	1.29	1.22	1.14	1.11	1.06	
7	0.91	1.14	1.16	3.02	2.90	1.81	1.28	1.27	1.22	1.14	1.11	1.05	
8	0.91	1.07	1.16	2.12	1.93	1.66	1.26	1.26	1.22	1.14	1.11	1.05	
9	0.90	1.03	1.15	2.04	1.88	1.60	1.31	1.26	1.21	1.13	1.11	1.05	
10	0.90	1.26	1.15	3.49	1.83	1.58	1.29	1.25	1.21	1.13	1.11	1.05	
11	0.90	1.22	1.14	2.44	1.79	1.57	1.96	1.24	1.21	1.13	1.10	1.04	
12	0.91	1.18	1.14	2.12	1.76	1.55	1.83	1.24	1.21	1.13	1.10	1.04	
13	0.91	1.14	1.13	*******	1.70	1.49	1.82	1.22	1.21	1.13	1.10	1.04	
14	0.92	1.10	1.13	*******	1.63	1.45	1.75	1.21	1.21	1.12	1.10	1.04	
15	0.92	1.09	1.12	*******	1.57	1.40	1.73	1.20	1.20	1.12	1.10	1.04	
16	0.93	1.09	1.11	*******	1.50	1.40	1.86	1.25	1.20	1.12	1.10	1.03	
17	0.95	2.82	1.10	*******	1.43	1.40	1.75	1.75	1.20	1.12	1.09	1.03	
18	1.00	1.57	1.10	3.41	1.87	1.40	1.84	2.20	1.19	1.12	1.09	1.03	
19	0.99	1.37	1.10	3.04	2.25	1.40	1.91	1.98	1.19	1.12	1.09	1.03	
20	0.98	1.32	1.09	2.61	2.09	1.40	1.87	1.80	1.19	1.11	1.09	1.03	
21	0.97	1.17	1.09	2.42	1.92	1.41	1.83	1.40	1.18	1.11	1.09	1.02	
22	0.97	1.41	1.11	2.37	1.70	1.40	1.77	1.38	1.18	1.11	1.09	1.02	
23	0.96	2.03	1.18	2.19	1.90	1.38	1.67	1.36	1.18	1.11	1.09	1.02	
24	0.96	2.26	1.21	2.71	2.16	1.36	1.50	1.34	1.18	1.10	1.08	1.02	
25	0.95	1.86	1.25	2.28	2.12	1.35	1.45	1.33	1.18	1.10	1.08	1.02	
26	0.94	1.69	1.29	2.20	1.75	1.32	1.42	1.32	1.17	1.10	1.08	1.02	
27	0.94	3.01	1.29	2.17	1.70	1.31	1.38	1.30	1.17	1.10	1.08	1.02	
28	0.93	1.79	1.26	2.10	1.67	1.29	1.36	1.29	1.17	1.09	1.08	1.01	
29	0.92	1.54	1.20	*******	1.65	1.29	1.34	1.28	1.17	1.09		1.01	
30	0.92	1.49	1.16	*******	1.60	1.28	1.32	1.27	1.17	1.09		1.01	
31		1.45		*******	1.57		1.31		1.17	1.08		1.01	
MEAN	0.94	1.48	1.19	*******	*******	1.54	1.55	1.37	1.20	1.12	1.09	1.04	
MAX	1.00	3.01	1.48	4.36	2.95	2.36	1.96	2.20	1.25	1.16	1.11	1.07	4.36
MIN	0.90	0.90	1.09	*******	*******	1.28	1.26	1.20	1.17	1.08	1.08	1.01	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.70 M (A.D), AT 10.00 HOURS, ON JUL 6, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -1.58 M (A.D)

LEFT BANK ELEVATION — 8.69 M (A.D)

RIGHT BANK ELEVATION — 9.18 M (A.D), DRAINAGE AREA 597 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.02	4.36	0.98	*******	15.30	2.32	3.17	2.15	0.98	0.47	0.42	
2	0.15	0.00	6.22	0.82	*******	14.60	2.32	3.17	2.15	0.98	0.47	0.42	
3	0.12	0.00	4.36	0.50	*******	16.40	8.63	3.00	1.98	0.90	0.47	0.40	
4	0.10	13.55	3.00	0.90	42.20	44.60	5.27	3.00	1.98	0.90	0.47	0.40	
5	0.07	28.00	1.81	1.06	89.00	23.15	3.85	3.00	1.81	0.90	0.50	0.40	
6	0.05	2.66	1.22	263.00	76.00	20.90	3.00	2.83	1.64	0.82	0.58	0.40	
7	0.02	0.82	0.98	96.00	84.00	16.40	2.66	2.49	1.64	0.82	0.58	0.37	
8	0.02	0.42	0.98	30.60	21.35	11.30	2.32	2.32	1.64	0.82	0.58	0.37	
9	0.00	0.33	0.90	26.50	19.20	9.50	3.17	2.32	1.47	0.74	0.58	0.37	
10	0.00	2.32	0.90	146.85	17.20	8.92	2.83	2.15	1.47	0.74	0.58	0.37	
11	0.00	1.64	0.82	49.60	15.65	8.63	22.70	1.98	1.47	0.74	0.50	0.35	
12	0.02	1.14	0.82	30.60	14.60	8.05	17.20	1.98	1.47	0.74	0.50	0.35	
13	0.02	0.82	0.74	*******	12.50	6.41	16.80	1.64	1.47	0.74	0.50	0.35	
14	0.05	0.50	0.74	*******	10.40	5.65	14.25	1.47	1.47	0.66	0.50	0.35	
15	0.05	0.47	0.66	*******	8.63	4.70	13.55	1.30	1.30	0.66	0.50	0.35	
16	0.07	0.47	0.58	*******	6.60	4.70	18.40	2.15	1.30	0.66	0.50	0.33	
17	0.12	77.60	0.50	*******	5.27	4.70	14.25	14.25	1.30	0.66	0.47	0.33	
18	0.25	8.63	0.50	137.65	18.80	4.70	17.60	35.00	1.22	0.66	0.47	0.33	
19	0.22	4.19	0.50	98.00	38.00	4.70	20.45	23.60	1.22	0.66	0.47	0.33	
20	0.20	3.34	0.47	61.75	29.00	4.70	18.80	16.00	1.22	0.58	0.47	0.33	
21	0.17	1.06	0.47	48.30	20.90	4.89	17.20	4.70	1.14	0.58	0.47	0.30	
22	0.17	4.89	0.58	45.20	12.50	4.70	14.95	4.36	1.14	0.58	0.47	0.30	
23	0.15	26.00	1.14	34.45	20.00	4.36	11.60	4.02	1.14	0.58	0.47	0.30	
24	0.15	38.60	1.47	69.25	32.80	4.02	6.60	3.68	1.14	0.50	0.45	0.30	
25	0.12	18.40	2.15	39.80	30.60	3.85	5.65	3.51	1.14	0.50	0.45	0.30	
26	0.10	12.20	2.83	35.00	14.25	3.34	5.08	3.34	1.06	0.50	0.45	0.30	
27	0.10	95.00	2.83	33.35	12.50	3.17	4.36	3.00	1.06	0.50	0.45	0.30	
28	0.07	15.65	2.32	29.50	11.60	2.83	4.02	2.83	1.06	0.47	0.45	0.28	
29	0.05	7.76	1.30	*******	11.00	2.83	3.68	2.66	1.06	0.47		0.28	
30	0.05	6.41	0.98	*******	9.50	2.66	3.34	2.49	1.06	0.47		0.28	
31		5.65		*******	8.63		3.17		1.06	0.45		0.28	
TOTAL	2.78	378.54	47.13	*******	*******	274.66	290.02	161.41	43.43	20.96	13.82	10.54	******** CMSDAY
MEAN	0.09	12.21	1.57	*******	*******	9.16	9.36	5.38	1.40	0.68	0.49	0.34	******* CMS
MAX	0.25	95.00	6.22	263.00	89.00	44.60	22.70	35.00	2.15	0.98	0.58	0.42	263.00 CMS
MIN	0.00	0.00	0.47	*******	*******	2.66	2.32	1.30	1.06	0.45	0.45	0.28	******* CMS
RUNOFF	0.240	32.706	4.072	*******	******	23.731	25.058	13.946	3.752	1.811	1.194	0.911	******** MCM

MOMENTARY PEAK 314.00 CMS, AT 4.70 M (A.D), AT 10.00 HOURS, ON JUL 6, 1981

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 525.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 6 KILOMETERS 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR, STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

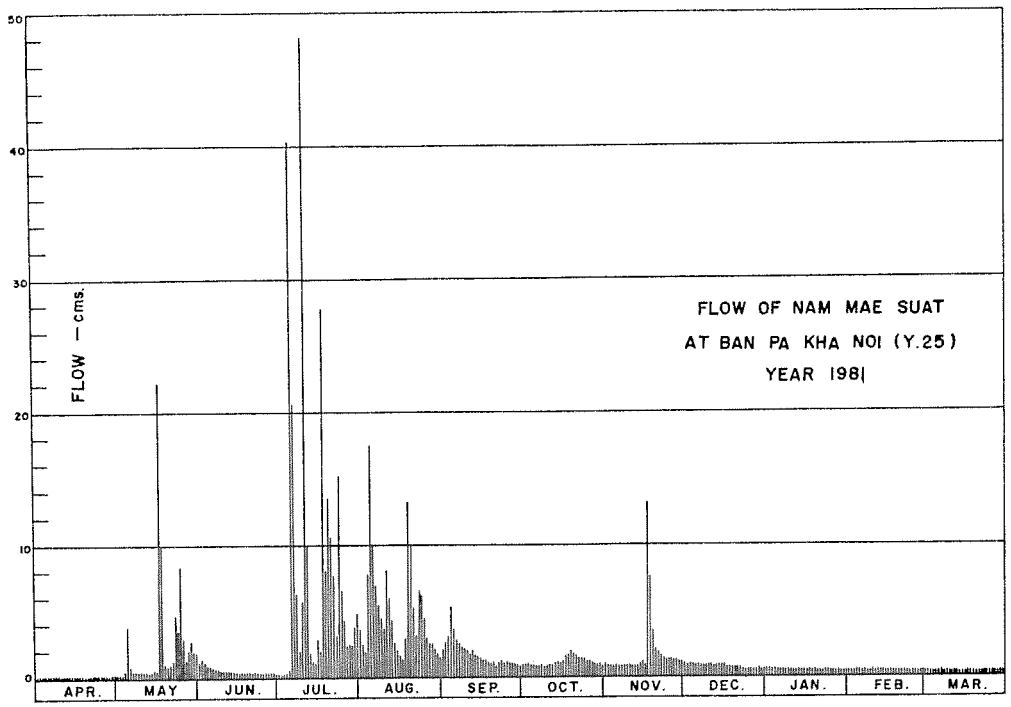
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.01	-0.01	0.21	-0.01	0.40	0.32	0.15	0.16	0.18	0.10	0.09	0.06	
2	-0.01	-0.01	0.23	0.00	0.34	0.35	0.15	0.15	0.18	0.10	0.08	0.06	
3	-0.01	-0.01	0.20	0.01	0.30	0.39	0.19	0.15	0.17	0.11	0.08	0.06	
4	-0.01	-0.01	0.17	-0.01	0.76	0.50	0.16	0.15	0.17	0.11	0.08	0.06	
5	-0.01	0.42	0.15	0.09	0.91	0.41	0.16	0.15	0.17	0.11	0.08	0.06	
6	-0.01	0.11	0.13	1.34	0.60	0.35	0.16	0.15	0.16	0.11	0.08	0.06	
7	-0.01	0.08	0.12	0.85	0.56	0.35	0.15	0.15	0.16	0.11	0.08	0.06	
8	-0.02	0.08	0.12	0.46	0.49	0.32	0.15	0.15	0.16	0.10	0.08	0.05	
9	-0.02	0.06	0.11	0.32	0.44	0.30	0.15	0.15	0.15	0.10	0.08	0.05	
10	-0.02	0.09	0.10	0.55	0.42	0.30	0.15	0.16	0.15	0.10	0.08	0.05	
11	-0.02	0.07	0.07	1.46	0.62	0.27	0.18	0.16	0.15	0.10	0.08	0.05	
12	-0.02	0.06	0.08	0.48	0.48	0.30	0.17	0.16	0.15	0.10	0.08	0.05	
13	-0.02	0.06	0.07	0.25	0.40	0.26	0.20	0.16	0.15	0.10	0.08	0.05	
14	-0.02	0.05	0.07	0.21	0.34	0.25	0.20	0.18	0.15	0.10	0.07	0.05	
15	0.03	0.10	0.06	0.19	0.30	0.23	0.19	0.20	0.15	0.10	0.07	0.05	
16	0.03	0.10	0.06	0.37	0.26	0.22	0.20	0.19	0.15	0.10	0.07	0.05	
17	0.02	1.02	0.06	0.29	0.25	0.21	0.26	0.79	0.13	0.10	0.07	0.05	
18	0.02	0.25	0.05	1.13	0.45	0.20	0.27	0.57	0.13	0.09	0.07	0.05	
19	0.01	0.19	0.05	0.62	0.80	0.20	0.30	0.36	0.13	0.09	0.07	0.05	
20	0.01	0.16	0.06	0.81	0.66	0.21	0.26	0.29	0.13	0.09	0.07	0.05	
21	0.00	0.17	0.06	0.69	0.46	0.18	0.24	0.27	0.13	0.09	0.07	0.05	
22	0.00	0.23	0.05	0.56	0.38	0.20	0.24	0.25	0.12	0.09	0.07	0.05	
23	0.00	0.48	0.05	0.39	0.56	0.22	0.23	0.24	0.11	0.09	0.07	0.05	
24	0.00	0.40	0.05	0.85	0.54	0.20	0.23	0.23	0.10	0.09	0.07	0.05	
25	-0.01	0.63	0.04	0.54	0.45	0.20	0.21	0.23	0.11	0.08	0.07	0.05	
26	-0.01	0.28	0.01	0.43	0.35	0.20	0.20	0.22	0.11	0.08	0.06	0.05	
27	-0.01	0.21	0.01	0.33	0.33	0.18	0.19	0.21	0.11	0.08	0.06	0.05	
28	-0.01	0.32	-0.01	0.34	0.34	0.17	0.18	0.21	0.11	0.08	0.06	0.05	
29	-0.01	0.35	-0.01	0.35	0.29	0.15	0.17	0.20	0.11	0.08		0.05	
30	-0.01	0.28	-0.01	0.44	0.27	0.15	0.16	0.21	0.11	0.08		0.05	
31		0.28		0.48	0.25		0.16		0.11	0.08		0.05	
MEAN	-0.00	0.21	0.08	0.48	0.45	0.26	0.19	0.23	0.14	0.09	0.07	0.05	
MAX	0.03	1.02	0.23	1.46	0.91	0.50	0.30	0.79	0.18	0.11	0.09	0.06	1.46
MIN	-0.02	-0.01	-0.01	-0.01	0.25	0.15	0.15	0.15	0.10	0.08	0.06	0.05	-0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.72 M (A.D), AT 5.00 HOURS, ON MAY 17, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D); RIVER BED -0.24 M (A.D)

LEFT BANK ELEVATION — 6.55 M (A.D)

RIGHT BANK ELEVATION — 6.54 M (A.D), DRAINAGE AREA 203 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.18	1.19	0.18	3.40	2.28	0.80	0.86	0.98	0.50	0.47	0.38	
2	0.18	0.18	1.37	0.20	2.56	2.70	0.80	0.80	0.98	0.50	0.44	0.38	
3	0.18	0.18	1.10	0.23	2.00	3.26	1.04	0.80	0.92	0.56	0.44	0.38	
4	0.18	0.18	0.92	0.18	12.06	5.20	0.86	0.80	0.92	0.56	0.44	0.38	
5	0.18	3.76	0.80	0.47	17.53	3.58	0.86	0.80	0.92	0.56	0.44	0.38	
6	0.18	0.56	0.68	40.22	7.50	2.70	0.86	0.80	0.86	0.56	0.44	0.38	
7	0.18	0.44	0.62	15.22	6.58	2.70	0.80	0.80	0.86	0.56	0.44	0.38	
8	0.16	0.44	0.62	4.48	5.02	2.28	0.80	0.80	0.86	0.50	0.44	0.35	
9	0.16	0.38	0.56	2.28	4.12	2.00	0.80	0.80	0.80	0.50	0.44	0.35	
10	0.16	0.47	0.50	6.35	3.76	2.00	0.80	0.86	0.80	0.50	0.44	0.35	
11	0.16	0.41	0.41	47.96	8.04	1.73	0.98	0.86	0.80	0.50	0.44	0.35	
12	0.16	0.38	0.44	4.84	4.84	2.00	0.92	0.86	0.80	0.50	0.44	0.35	
13	0.16	0.38	0.41	1.55	3.40	1.64	1.10	0.86	0.80	0.50	0.44	0.35	
14	0.26	0.35	0.41	1.19	2.56	1.55	1.10	0.98	0.80	0.50	0.41	0.35	
15	0.29	0.50	0.38	1.04	2.00	1.37	1.04	1.10	0.80	0.50	0.41	0.35	
16	0.29	0.50	0.38	2.98	1.64	1.28	1.10	1.04	0.80	0.50	0.41	0.35	
17	0.26	22.02	0.38	1.91	1.55	1.19	1.64	12.99	0.68	0.50	0.41	0.35	
18	0.26	1.55	0.35	27.78	4.30	1.10	1.73	6.81	0.68	0.47	0.41	0.35	
19	0.23	1.04	0.35	8.04	13.30	1.10	2.00	2.84	0.68	0.47	0.41	0.35	
20	0.23	0.86	0.38	13.68	9.12	1.19	1.64	1.91	0.68	0.47	0.41	0.35	
21	0.20	0.92	0.38	9.93	4.48	0.98	1.46	1.73	0.68	0.47	0.41	0.35	
22	0.20	1.37	0.35	6.58	3.12	1.10	1.46	1.55	0.62	0.47	0.41	0.35	
23	0.20	4.84	0.35	3.26	6.58	1.28	1.37	1.46	0.56	0.47	0.41	0.35	
24	0.20	3.40	0.35	15.22	6.12	1.10	1.37	1.37	0.50	0.47	0.41	0.35	
25	0.18	8.31	0.32	6.12	4.30	1.10	1.19	1.37	0.56	0.44	0.41	0.35	
26	0.18	1.82	0.23	3.94	2.70	1.10	1.10	1.28	0.56	0.44	0.38	0.35	
27	0.18	1.19	0.23	2.42	2.42	0.98	1.04	1.19	0.56	0.44	0.38	0.35	
28	0.18	2.28	0.18	2.56	2.56	0.92	0.98	1.19	0.56	0.44	0.38	0.35	
29	0.18	2.70	0.18	2.70	1.91	0.80	0.92	1.10	0.56	0.44		0.35	
30	0.18	1.82	0.18	4.12	1.73	0.80	0.86	1.19	0.56	0.44		0.35	
31		1.82		4.84	1.55		0.86		0.56	0.44		0.35	
TOTAL	5.92	65.23	15.00	242.47	152.75	53.01	34.28	51.80	22.70	15.17	11.81	11.06	681.20 CMSDAY
MEAN	0.20	2.10	0.50	7.82	4.93	1.77	1.11	1.73	0.73	0.49	0.42	0.36	1.87 CMS
MAX	0.29	22.02	1.37	47.96	17.53	5.20	2.00	12.99	0.98	0.56	0.47	0.38	47.96 CMS
MIN	0.16	0.18	0.18	0.18	1.55	0.80	0.80	0.80	0.50	0.44	0.38	0.35	0.16 CMS
RUNOFF	0.511	5.636	1.296	20.949	13.198	4.580	2.962	4.476	1.961	1.311	1.020	0.956	58.856 MCM

MOMENTARY PEAK 66.76 CMS, AT 1.72 M (A.D), AT 5.00 HOURS, ON MAY 17, 1981

RUNOFF YIELD 9.19 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 328.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

YOM RIVER BASIN

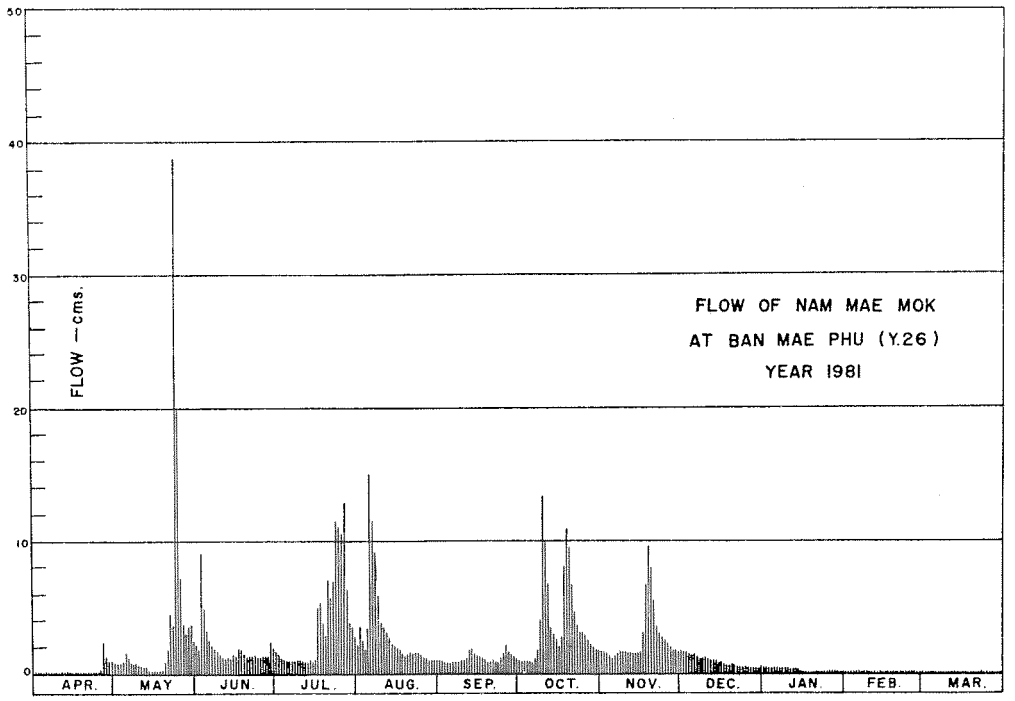
NAM MAE MOK AT BAN MAE PHU, LAMPANG (Y.26)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 92 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.55	0.85	1.02	0.95	1.02	0.88	0.87	0.95	0.95	0.78	0.74	0.69	
2	0.54	0.85	0.98	0.92	1.16	0.86	0.86	0.94	0.94	0.78	0.74	0.68	
3	0.54	0.85	1.51	0.89	1.03	0.86	0.87	0.92	0.94	0.79	0.74	0.67	
4	0.53	0.85	1.29	0.87	0.99	0.86	0.87	0.91	0.93	0.79	0.71	0.65	
5	0.53	0.85	1.13	0.86	1.31	0.86	0.86	0.91	0.92	0.79	0.71	0.64	
6	0.52	0.97	1.04	0.86	1.79	0.85	0.87	0.93	0.92	0.78	0.71	0.63	
7	0.52	0.89	0.99	0.86	1.57	0.87	0.91	0.94	0.91	0.79	0.73	0.61	
8	0.51	0.85	0.96	0.88	1.41	0.86	1.00	0.95	0.90	0.79	0.74	0.60	
9	0.51	0.84	0.94	0.88	1.27	0.88	1.23	0.96	0.89	0.78	0.73	0.59	
10	0.50	0.86	0.92	0.88	1.15	0.88	1.72	0.96	0.88	0.78	0.74	0.58	
11	0.50	0.83	0.90	0.87	1.14	0.89	1.54	0.95	0.88	0.78	0.73	0.58	
12	0.50	0.80	0.90	0.86	1.09	0.98	1.37	0.94	0.86	0.78	0.76	0.57	
13	0.50	0.80	0.91	0.87	1.05	0.99	1.14	0.93	0.87	0.78	0.74	0.56	
14	0.50	0.79	0.90	0.88	1.02	0.94	1.08	0.93	0.86	0.77	0.71	0.55	
15	0.50	0.76	0.92	0.87	1.00	0.92	1.05	0.94	0.85	0.77	0.70	0.54	
16	0.53	0.76	0.92	0.88	0.98	0.90	1.02	0.98	0.84	0.77	0.69	0.54	
17	0.51	0.76	0.98	1.29	0.96	0.88	1.08	1.16	0.83	0.77	0.69	0.53	
18	0.51	0.76	0.94	1.30	0.93	0.86	1.53	1.47	0.82	0.77	0.70	0.53	
19	0.51	0.76	0.93	1.16	0.92	0.86	1.61	1.54	0.82	0.76	0.70	0.52	
20	0.51	0.93	0.91	1.10	0.94	0.87	1.47	1.38	0.83	0.76	0.70	0.51	
21	0.51	0.96	0.92	1.41	0.94	0.88	1.35	1.23	0.82	0.75	0.70	0.50	
22	0.54	1.24	0.92	1.32	0.93	0.86	1.22	1.15	0.81	0.75	0.69	0.50	
23	0.63	1.16	0.91	1.46	0.94	0.86	1.14	1.09	0.81	0.74	0.71	0.48	
24	0.63	2.59	0.90	1.63	0.93	0.89	1.09	1.05	0.80	0.76	0.69	0.48	
25	0.63	1.63	0.90	1.62	0.92	0.93	1.11	1.04	0.80	0.75	0.68	0.48	
26	0.63	1.27	0.92	1.59	0.89	1.00	1.08	1.02	0.80	0.77	0.69	0.47	
27	0.76	1.13	0.90	1.69	0.89	0.96	1.04	0.99	0.81	0.75	0.69	0.47	
28	1.03	1.10	0.93	1.30	0.88	0.92	1.02	0.96	0.81	0.75	0.69	0.47	
29	0.90	1.16	1.04	1.17	0.86	0.90	0.99	0.97	0.81	0.75		0.45	
30	0.86	1.17	0.98	1.10	0.88	0.89	0.97	0.96	0.80	0.74		0.44	
31		1.06		1.06	0.88		0.95		0.79	0.74		0.43	
MEAN	0.58	1.00	0.98	1.11	1.05	0.89	1.13	1.04	0.85	0.77	0.71	0.55	
MAX	1.03	2.59	1.51	1.69	1.79	1.00	1.72	1.54	0.95	0.79	0.76	0.69	2.59
MIN	0.50	0.76	0.90	0.86	0.88	0.85	0.86	0.91	0.79	0.74	0.68	0.43	0.43

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.63 M (A.D), AT 8.00 HOURS, ON MAY 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.47 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.80	2.20	1.60	2.20	1.04	0.96	1.60	1.60	0.24	0.00	0.00	
2	0.00	0.80	1.84	1.36	3.60	0.88	0.88	1.52	1.52	0.24	0.00	0.00	
3	0.00	0.80	9.00	1.12	2.30	0.88	0.96	1.36	1.52	0.32	0.00	0.00	
4	0.00	0.80	5.26	0.96	1.92	0.88	0.96	1.28	1.44	0.32	0.00	0.00	
5	0.00	0.80	3.30	0.88	5.56	0.88	0.88	1.28	1.36	0.32	0.00	0.00	
6	0.00	1.76	2.40	0.88	14.97	0.80	0.96	1.44	1.36	0.24	0.00	0.00	
7	0.00	1.12	1.92	0.88	10.20	0.96	1.28	1.52	1.28	0.32	0.00	0.00	
8	0.00	0.80	1.68	1.04	7.18	0.88	2.00	1.60	1.20	0.32	0.00	0.00	
9	0.00	0.72	1.52	1.04	4.98	1.04	4.42	1.68	1.12	0.24	0.00	0.00	
10	0.00	0.88	1.36	1.04	3.50	1.04	13.36	1.68	1.04	0.24	0.00	0.00	
11	0.00	0.64	1.20	0.96	3.40	1.12	9.60	1.60	1.04	0.24	0.00	0.00	
12	0.00	0.40	1.20	0.88	2.90	1.84	6.52	1.52	0.88	0.24	0.08	0.00	
13	0.00	0.40	1.28	0.96	2.50	1.92	3.40	1.44	0.96	0.24	0.00	0.00	
14	0.00	0.32	1.20	1.04	2.20	1.52	2.80	1.44	0.88	0.16	0.00	0.00	
15	0.00	0.08	1.36	0.96	2.00	1.36	2.50	1.52	0.80	0.16	0.00	0.00	
16	0.00	0.08	1.36	1.04	1.84	1.20	2.20	1.84	0.72	0.16	0.00	0.00	
17	0.00	0.08	1.84	5.26	1.68	1.04	2.80	3.60	0.64	0.16	0.00	0.00	
18	0.00	0.08	1.52	5.40	1.44	0.88	9.40	8.26	0.56	0.16	0.00	0.00	
19	0.00	0.08	1.44	3.60	1.36	0.88	11.01	9.60	0.56	0.08	0.00	0.00	
20	0.00	1.44	1.28	3.00	1.52	0.96	8.26	6.68	0.64	0.08	0.00	0.00	
21	0.00	1.68	1.36	7.18	1.52	1.04	6.20	4.42	0.56	0.00	0.00	0.00	
22	0.00	4.56	1.36	5.72	1.44	0.88	4.28	3.50	0.48	0.00	0.00	0.00	
23	0.00	3.60	1.28	8.08	1.52	0.88	3.40	2.90	0.48	0.00	0.00	0.00	
24	0.00	38.64	1.20	11.43	1.44	1.12	2.90	2.60	0.40	0.08	0.00	0.00	
25	0.00	11.43	1.20	11.22	1.36	1.44	3.10	2.40	0.40	0.00	0.00	0.00	
26	0.00	4.98	1.36	10.60	1.12	2.00	2.80	2.20	0.40	0.16	0.00	0.00	
27	0.08	3.30	1.20	12.69	1.12	1.68	2.40	1.92	0.48	0.00	0.00	0.00	
28	2.30	3.00	1.44	5.40	1.04	1.36	2.20	1.68	0.48	0.00	0.00	0.00	
29	1.20	3.60	2.40	3.70	1.04	1.20	1.92	1.76	0.48	0.00		0.00	
30	0.88	3.70	1.84	3.00	1.04	1.12	1.76	1.68	0.40	0.00		0.00	
31		2.60		2.60	1.04		1.60		0.32	0.00		0.00	
TOTAL	4.46	93.97	58.80	115.52	90.93	34.72	117.71	77.52	26.00	4.72	0.08	0.00	624.43 CMSDAY
MEAN	0.15	3.03	1.96	3.73	2.93	1.16	3.80	2.58	0.84	0.15	0.00	0.00	1.71 CMS
MAX	2.30	38.64	9.00	12.69	14.97	2.00	13.36	9.60	1.60	0.32	0.08	0.00	38.64 CMS
MIN	0.00	0.08	1.20	0.88	1.04	0.80	0.88	1.28	0.32	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.385	8.119	5.080	9.981	7.856	3.000	10.170	6.698	2.246	0.408	0.007	0.000	53.951 MCM

MOMENTARY PEAK 86.30 CMS, AT 3.63 M (A.D), AT 8.00 HOURS, ON MAY 24, 1981

RUNOFF YIELD 2.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

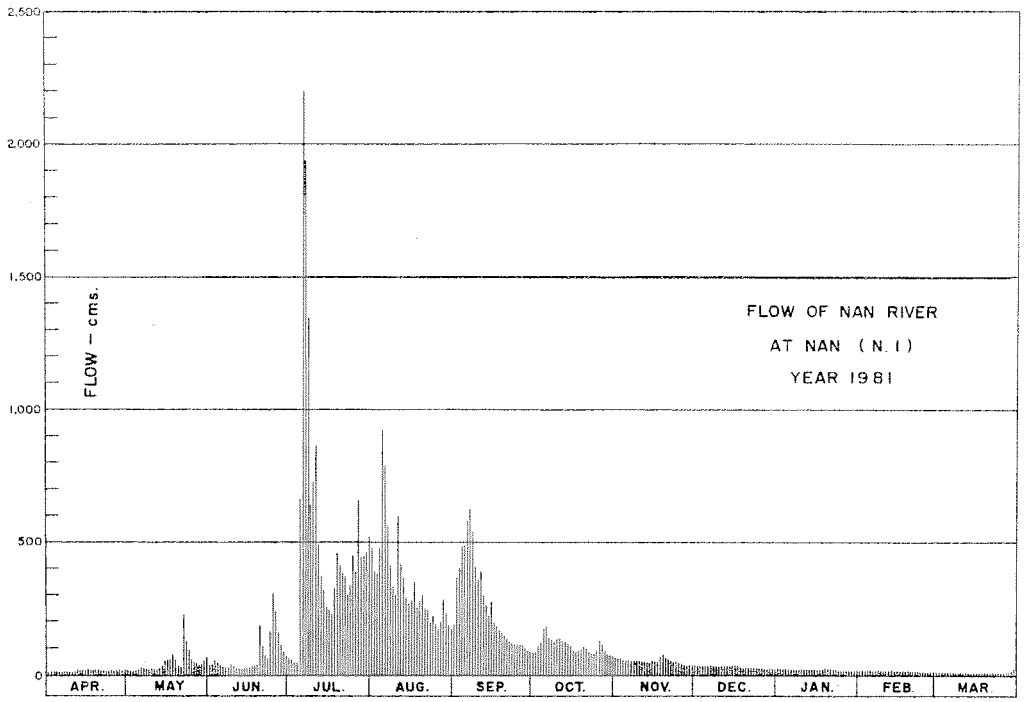
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +199.188 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	192.73	192.87	193.17	193.47	195.50	194.29	193.64	193.50	193.18	193.03	192.90	192.76	
2	192.73	192.84	193.20	193.39	195.20	195.03	193.66	193.47	193.17	193.02	192.90	192.76	
3	192.74	192.82	193.41	193.31	195.15	195.25	193.84	193.45	193.17	193.01	192.90	192.76	
4	192.75	192.91	193.27	193.30	195.51	195.56	193.91	193.43	193.17	193.00	192.89	192.76	
5	192.74	192.99	193.18	194.65	196.88	195.55	194.23	193.41	193.16	192.99	192.89	192.76	
6	192.74	193.03	193.13	199.15	196.11	195.91	194.30	193.39	193.16	192.98	192.89	192.75	
7	192.74	192.95	193.10	199.59	195.58	196.02	194.02	193.38	193.15	192.98	192.89	192.75	
8	192.74	192.91	193.12	198.17	195.27	195.69	193.98	193.39	193.14	192.98	192.88	192.75	
9	192.73	192.95	193.18	196.10	194.97	195.25	193.94	193.40	193.14	192.97	192.86	192.75	
10	192.73	192.96	193.13	196.39	194.86	195.05	193.99	193.39	193.14	192.96	192.85	192.75	
11	192.72	192.95	193.08	196.72	195.93	195.19	194.00	193.35	193.14	192.96	192.84	192.74	
12	192.79	192.92	193.07	195.63	195.32	194.82	193.96	193.33	193.14	192.96	192.84	192.73	
13	192.83	193.10	193.06	195.11	195.01	194.61	193.93	193.32	193.14	192.96	192.84	192.73	
14	192.83	193.16	193.05	194.88	194.78	194.48	193.87	193.32	193.14	192.96	192.84	192.73	
15	192.86	193.36	193.05	194.62	194.69	194.93	193.85	193.37	193.14	192.95	192.83	192.72	
16	192.93	193.35	193.06	194.61	194.71	194.37	193.69	193.35	193.14	192.95	192.83	192.72	
17	192.85	193.40	193.15	194.51	195.00	194.27	193.68	193.34	193.13	192.94	192.82	192.72	
18	192.82	193.58	193.15	195.02	194.62	194.19	193.70	193.53	193.11	192.95	192.81	192.71	
19	192.88	193.32	193.20	195.45	194.73	194.12	193.74	193.60	193.09	193.02	192.80	192.71	
20	192.86	193.18	194.24	195.30	194.84	194.08	193.82	193.46	193.07	193.00	192.79	192.70	
21	192.82	193.11	193.77	195.12	194.61	194.01	193.77	193.36	193.06	192.97	192.79	192.70	
22	192.80	194.49	193.54	195.09	194.58	193.92	193.67	193.34	193.05	192.95	192.79	192.70	
23	192.83	193.92	193.47	194.84	194.35	193.89	193.61	193.32	193.04	192.94	192.77	192.70	
24	192.81	193.73	194.27	195.00	194.48	193.87	193.62	193.31	193.04	192.93	192.77	192.70	
25	192.78	193.40	194.84	195.43	194.29	193.84	193.66	193.27	193.04	192.92	192.77	192.70	
26	192.79	193.28	194.45	195.21	194.20	193.79	193.98	193.26	193.04	192.92	192.77	192.70	
27	192.86	193.24	194.04	196.14	194.36	193.79	193.79	193.23	193.04	192.92	192.77	192.70	
28	192.91	193.21	193.82	195.38	194.73	193.75	193.66	193.18	193.04	192.92	192.77	192.70	
29	192.85	193.20	193.68	195.42	194.50	193.67	193.58	193.21	193.03	192.91		192.88	
30	192.87	193.33	193.53	195.50	194.27	193.64	193.55	193.20	193.03	192.91		192.97	
31		193.45		195.67	194.19		193.51		193.03	192.90		192.86	
MEAN	192.80	193.22	193.45	195.42	194.94	194.56	193.81	193.36	193.10	192.96	192.83	192.74	
MAX	192.93	194.49	194.84	199.59	196.88	196.02	194.30	193.60	193.18	193.03	192.90	192.97	199.59
MIN	192.72	192.82	193.05	193.30	194.19	193.64	193.51	193.18	193.03	192.90	192.77	192.70	192.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 199.82 M (MSL), AT 6.00 HOURS, ON JUL 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 192.17 M (MSL), RIVER BED 191.78 M (MSL)
LEFT BANK ELEVATION 199.19 M (MSL)
RIGHT BANK ELEVATION 199.45 M (MSL), DRAINAGE AREA 4609 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.5	15.5	33.6	62.7	468.0	187.1	82.8	66.0	34.4	23.8	17.0	10.0	
2	8.5	14.0	36.0	54.0	388.0	353.9	85.2	62.7	33.6	23.2	17.0	10.0	
3	9.0	13.0	56.1	46.0	380.5	401.0	110.4	60.5	33.6	22.6	17.0	10.0	
4	9.5	17.5	42.3	45.0	470.8	484.8	121.6	58.3	33.6	22.0	16.5	10.0	
5	9.0	21.5	34.4	258.0	922.0	482.0	176.0	56.1	32.8	21.5	16.5	10.0	
6	9.0	23.8	30.4	1964.0	649.2	587.1	189.0	54.0	32.8	21.0	16.5	9.5	
7	9.0	19.5	28.0	2197.6	490.4	621.2	139.2	53.0	32.0	21.0	16.5	9.5	
8	9.0	17.5	29.6	1480.9	406.2	522.1	132.8	54.0	31.2	21.0	16.0	9.5	
9	8.5	19.5	34.4	646.0	337.5	401.0	126.4	55.0	31.2	20.5	15.0	9.5	
10	8.5	20.0	30.4	741.6	307.4	359.3	134.4	54.0	31.2	20.0	14.5	9.5	
11	8.0	19.5	26.8	860.0	593.3	386.5	136.0	50.0	31.2	20.0	14.0	9.0	
12	11.5	18.0	26.2	504.7	419.4	296.5	129.6	48.0	31.2	20.0	14.0	8.5	
13	13.5	28.0	25.6	374.5	348.4	249.2	124.8	47.0	31.2	20.0	14.0	8.5	
14	13.5	32.8	25.0	312.9	286.6	222.3	115.2	47.0	31.2	20.0	14.0	8.5	
15	15.0	51.0	25.0	251.4	266.8	326.5	112.0	52.0	31.2	19.5	13.5	8.0	
16	18.5	50.0	25.6	249.2	271.2	201.9	88.8	50.0	31.2	19.5	13.5	8.0	
17	14.5	55.0	32.0	228.1	345.7	183.4	87.6	49.0	30.4	19.0	13.0	8.0	
18	13.0	75.6	32.0	351.1	251.4	168.6	90.0	69.6	28.8	19.5	12.5	7.5	
19	16.0	47.0	36.0	454.5	275.6	155.7	95.6	78.0	27.4	23.2	12.0	7.5	
20	15.0	34.4	177.9	414.0	301.9	148.8	107.2	61.6	26.2	22.0	11.5	7.0	
21	13.0	28.8	99.8	376.0	249.2	137.6	99.8	51.0	25.6	20.5	11.5	7.0	
22	12.0	224.1	70.8	370.3	242.8	123.2	86.4	49.0	25.0	19.5	11.5	7.0	
23	13.5	123.2	62.7	301.9	198.2	118.4	79.2	47.0	24.4	19.0	10.5	7.0	
24	12.5	94.2	183.4	345.7	222.3	115.2	80.4	46.0	24.4	18.5	10.5	7.0	
25	11.0	55.0	301.9	449.1	187.1	110.4	85.2	42.3	24.4	18.0	10.5	7.0	
26	11.5	43.2	216.7	390.6	170.5	102.6	132.8	41.4	24.4	18.0	10.5	7.0	
27	15.0	39.6	142.4	658.8	200.1	102.6	102.6	38.7	24.4	18.0	10.5	7.0	
28	17.5	36.9	107.2	435.6	275.6	97.0	85.2	34.4	24.4	18.0	10.5	7.0	
29	14.5	36.0	87.6	446.4	226.0	86.4	75.6	36.9	23.8	17.5		16.0	
30	15.5	48.0	69.6	468.0	183.4	82.8	72.0	36.0	23.8	17.5		20.5	
31		60.5		516.3	168.6		67.2		23.8	17.0		15.0	
TOTAL	363.0	1382.6	2129.4	16254.9	10504.1	7815.1	3351.0	1548.5	894.8	620.8	380.5	285.5	45530.1 CMSDAY
MEAN	12.1	44.6	71.0	524.4	338.8	260.5	108.1	51.6	28.9	20.0	13.6	9.2	124.7 CMS
MAX	18.5	224.1	301.9	2197.6	922.0	621.2	189.0	78.0	34.4	23.8	17.0	20.5	2197.6 CMS
MIN	8.0	13.0	25.0	45.0	168.6	82.8	67.2	34.4	23.8	17.0	10.5	7.0	7.0 CMS
RUNOFF	31.36	119.46	183.98	1404.42	907.55	675.22	289.53	133.79	77.31	53.64	32.88	24.67	3933.80 MCM

MOMENTARY PEAK 2321.79 CMS, AT 199.82 M (MSL), AT 6.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 27.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 503.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

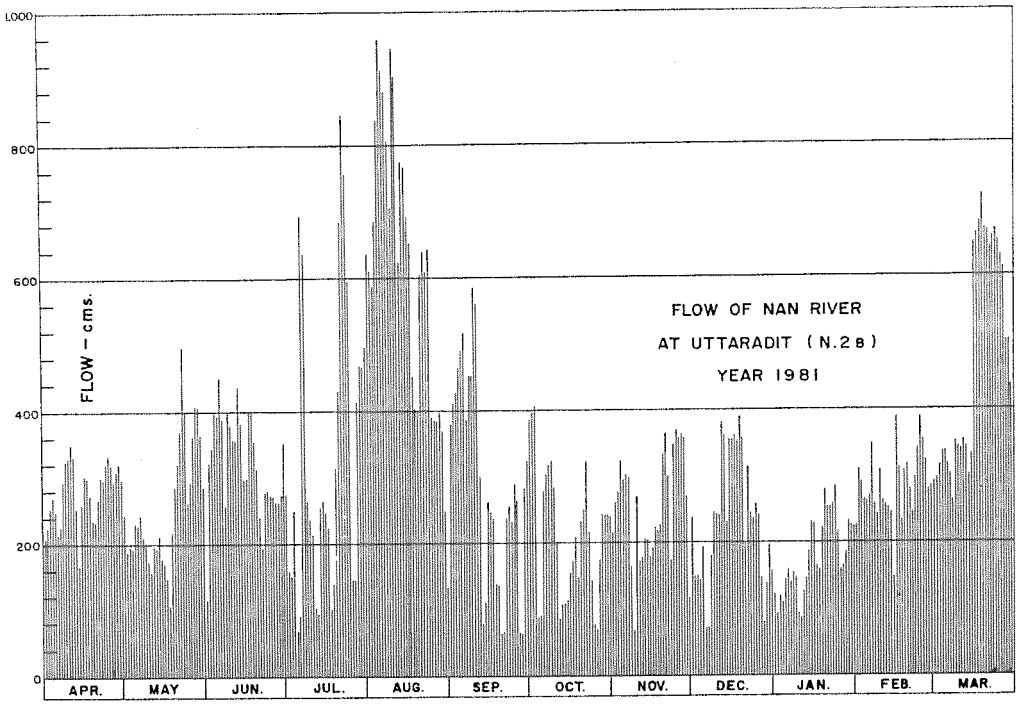
NAN RIVER AT UTTARADIT, UTTARADIT (N.2B)

LOCATION	LAT. 17°-36'-30" N., LONG. 100°-06'-08" E., ON RIGHT BANK ABOUT 700 METERS DOWNSTREAM FROM N.2A, AMPHOE MUANG, UTTARADIT.
DRAINAGE AREA	16,865 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+52.30 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	BEHIND THE AUTOMATIC GAGE BUILDING.
ELEVATION	+63.138 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	1970-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1970-1974
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 202 DISCHARGE MEASUREMENTS MADE DURING 1970-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	55.05	55.29	54.31	55.53	57.01	55.95	55.87	55.10	55.24	54.33	55.19	55.56	
2	55.19	54.91	55.70	54.69	56.92	56.12	55.94	55.38	54.62	54.12	55.64	55.59	
3	55.36	54.98	55.82	54.61	56.84	56.22	55.56	55.49	54.63	54.37	55.48	55.68	
4	55.46	54.95	56.09	55.32	57.24	56.36	54.00	55.72	54.59	54.27	55.40	55.78	
5	55.33	55.19	56.07	53.79	57.55	56.49	54.12	55.58	54.96	54.57	55.38	55.80	
6	55.10	55.18	56.30	54.11	57.91	56.57	55.47	55.62	53.87	54.71	55.47	55.71	
7	55.17	55.28	56.00	57.17	57.81	56.04	55.60	55.58	53.90	54.54	55.85	55.58	
8	55.57	55.06	55.37	56.93	57.65	56.30	55.70	54.11	54.82	54.68	55.35	55.40	
9	55.73	55.02	56.09	55.42	57.46	56.31	55.73	53.87	55.28	54.58	55.25	55.86	
10	55.76	54.85	55.98	55.22	57.21	56.82	55.48	55.43	55.31	54.16	55.64	55.82	
11	55.85	54.69	55.88	55.07	57.88	56.74	54.99	54.81	55.26	54.00	55.37	55.81	
12	55.76	54.99	55.89	54.21	57.76	55.66	54.04	54.87	56.00	54.42	55.36	55.87	
13	55.33	54.95	56.25	54.09	56.96	53.96	54.25	55.03	55.89	54.60	55.33	55.82	
14	54.78	55.08	56.03	55.34	57.41	54.34	54.25	55.04	55.21	54.93	55.26	55.61	
15	55.41	54.89	55.57	55.41	57.39	55.38	54.34	54.87	55.88	55.21	54.60	55.76	
16	55.61	54.79	55.59	55.30	57.23	55.32	54.67	54.96	55.89	55.19	56.04	57.05	
17	55.59	54.61	56.10	55.13	57.03	55.23	54.78	55.16	55.91	54.76	55.52	57.10	
18	55.44	54.25	56.10	54.19	56.27	54.54	55.04	55.10	55.87	54.70	55.23	57.15	
19	55.23	55.10	55.81	54.56	56.08	54.53	54.62	55.24	56.05	55.21	55.64	57.27	
20	55.23	55.51	55.68	55.98	56.11	53.78	55.19	55.77	55.77	55.48	55.69	57.12	
21	55.40	55.72	55.22	56.34	56.89	53.81	55.33	55.92	55.00	55.34	55.52	57.11	
22	55.60	55.96	54.97	57.39	57.01	55.29	55.51	55.41	55.67	55.35	55.30	57.04	
23	55.57	56.50	55.46	57.62	56.92	55.34	55.09	54.83	55.27	55.40	55.58	57.08	
24	55.69	56.06	55.47	57.26	57.02	55.21	54.55	55.84	55.23	55.49	55.80	57.11	
25	55.76	55.24	55.44	56.30	56.06	55.55	53.94	55.95	55.37	55.08	56.05	57.06	
26	55.69	55.84	55.44	54.58	56.04	55.35	53.85	55.89	55.26	54.70	55.87	56.99	
27	55.56	55.94	55.38	54.58	56.03	53.84	54.82	55.93	54.56	54.78	55.74	56.91	
28	55.66	56.13	55.39	56.16	56.08	53.81	55.28	55.89	53.99	54.98	55.49	56.52	
29	55.70	56.12	55.46	56.38	55.93	55.49	55.28	55.33	54.72	55.22		56.53	
30	55.59	55.87	55.86	56.38	55.59	55.78	55.28	54.34	54.98	55.18		55.99	
31		55.51		56.49	54.49		55.27		54.75	55.15		55.73	
MEAN	55.47	55.31	55.69	55.53	56.83	55.40	54.96	55.27	55.15	54.82	55.50	56.30	
MAX	55.85	56.50	56.30	57.62	57.91	56.82	55.94	55.95	56.05	55.49	56.05	57.27	57.91
MIN	54.78	54.25	54.31	53.79	54.49	53.78	53.85	53.87	53.87	54.00	54.60	55.40	53.78

ANNUAL MAX MOMENTARY GAGE HEIGHT 58.01 M (MSL), AT 15.00 HOURS, ON AUG 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 52.30 M (MSL), RIVER BED 51.91 M (MSL)
LEFT BANK ELEVATION 60.87 M (MSL)
RIGHT BANK ELEVATION 62.24 M (MSL), DRAINAGE AREA 16865 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	206.0	244.4	113.0	287.4	637.2	368.0	352.0	214.0	236.4	115.0	228.4	292.8	
2	228.4	185.4	318.0	156.8	610.0	404.8	366.0	260.4	148.4	94.0	307.2	298.2	
3	256.8	195.2	342.0	147.2	587.8	428.8	292.8	280.2	149.6	119.0	278.4	314.4	
4	274.8	191.0	397.8	249.6	713.6	462.4	82.0	322.0	144.8	109.0	264.0	334.0	
5	251.4	228.4	393.4	63.2	820.0	493.6	94.0	296.4	192.4	142.4	260.4	338.0	
6	214.0	226.8	448.0	93.0	958.0	514.9	276.6	303.6	69.6	159.2	276.6	320.0	
7	225.2	242.8	378.0	689.8	918.0	386.8	300.0	296.4	72.0	138.8	348.0	296.4	
8	294.6	207.6	258.6	613.0	856.0	448.0	318.0	93.0	172.8	155.6	255.0	264.0	
9	324.0	201.2	397.8	267.6	788.4	450.4	324.0	69.6	242.8	143.6	238.0	350.0	
10	330.0	177.0	374.0	233.2	703.4	582.4	278.4	269.4	247.8	98.0	307.2	342.0	
11	348.0	156.8	354.0	209.2	946.0	560.8	196.6	171.4	239.6	82.0	258.6	340.0	
12	330.0	196.6	356.0	103.0	898.0	310.8	86.0	179.8	378.0	124.4	256.8	352.0	
13	251.4	191.0	436.0	91.0	622.0	78.0	107.0	202.8	356.0	146.0	251.4	342.0	
14	167.6	210.8	384.6	253.2	771.4	116.0	107.0	204.4	231.6	188.2	239.6	301.8	
15	265.8	182.6	294.6	265.8	764.6	260.4	116.0	179.8	354.0	231.6	146.0	330.0	
16	301.8	168.8	298.2	246.0	710.2	249.6	154.4	192.4	356.0	228.4	386.8	650.0	
17	298.2	147.2	400.0	218.8	643.6	234.8	167.6	223.6	360.0	165.2	285.6	666.0	
18	271.2	107.0	400.0	101.0	440.8	138.8	204.4	214.0	352.0	158.0	234.8	683.0	
19	234.8	214.0	340.0	141.2	395.6	137.6	148.4	236.4	389.0	231.6	307.2	723.8	
20	234.8	283.8	314.4	374.0	402.4	62.4	228.4	332.0	332.0	278.4	316.2	672.8	
21	264.0	322.0	233.2	457.6	601.3	64.8	251.4	362.0	198.0	253.2	285.6	669.4	
22	300.0	370.0	193.8	764.6	637.2	244.4	283.8	265.8	312.6	255.0	246.0	646.8	
23	294.6	496.0	274.8	845.2	610.0	253.2	212.4	174.2	241.2	264.0	296.4	659.6	
24	316.2	391.2	276.6	720.4	640.4	231.6	140.0	346.0	234.8	280.2	338.0	669.4	
25	330.0	236.4	271.2	448.0	391.2	291.0	76.0	368.0	258.6	210.8	389.0	653.2	
26	316.2	346.0	271.2	143.6	386.8	255.0	68.0	356.0	239.6	158.0	352.0	631.0	
27	292.8	366.0	260.4	143.6	384.6	67.2	172.8	364.0	141.2	167.6	326.0	607.0	
28	310.8	407.2	262.2	414.4	395.6	64.8	242.8	356.0	81.0	195.2	280.2	501.4	
29	318.0	404.8	274.8	467.2	364.0	280.2	242.8	251.4	160.4	233.2		504.1	
30	298.2	352.0	350.0	467.2	298.2	334.0	242.8	116.0	195.2	226.8		376.0	
31		283.8		493.6	132.8		241.2		164.0	222.0		324.0	
TOTAL	8349.6	7933.8	9666.6	10169.4	19029.1	8775.5	6373.6	7501.0	7251.4	5574.4	7959.4	14453.1	113036.8 CMSDAY
MEAN	278.3	255.9	322.2	328.0	613.8	292.5	205.6	250.0	233.9	179.8	284.3	466.2	309.7 CMS
MAX	348.0	496.0	448.0	845.2	958.0	582.4	366.0	368.0	389.0	280.2	389.0	723.8	958.0 CMS
MIN	167.6	107.0	113.0	63.2	132.8	62.4	68.0	69.6	69.6	82.0	146.0	264.0	62.4 CMS
RUNOFF	721.40	685.48	835.19	878.64	1644.11	758.20	550.68	648.09	626.52	481.63	687.69	1248.75	9766.37 MCM

MOMENTARY PEAK 998.00 CMS, AT 58.01 M (MSL), AT 15.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 18.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 59.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — 1974

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

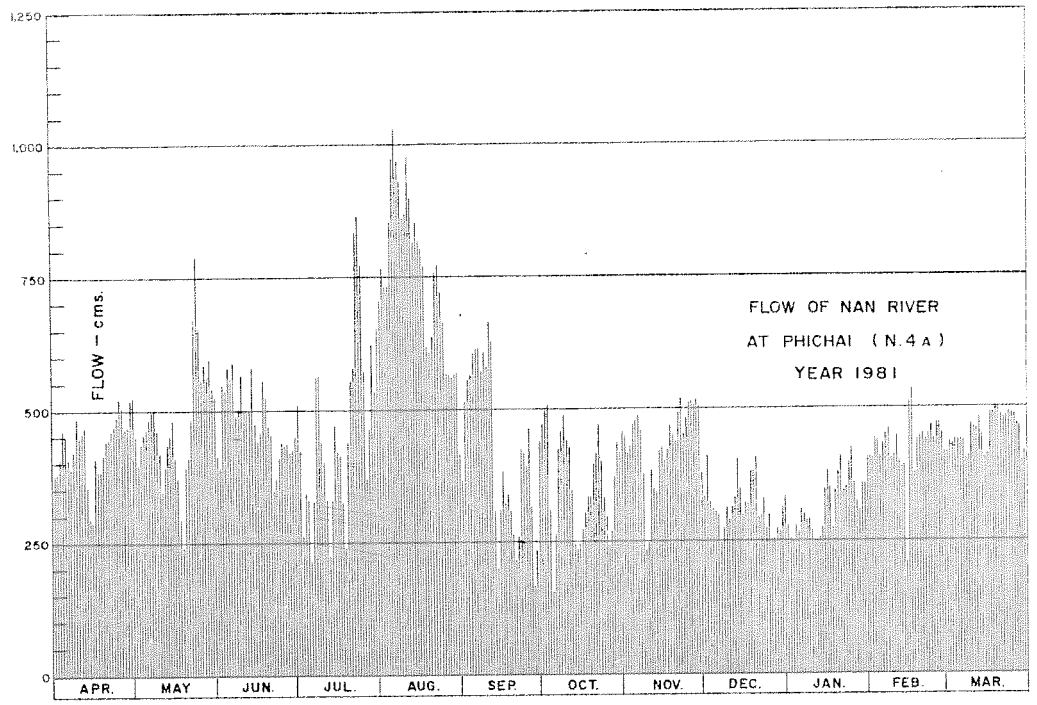
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	47.67	48.15	47.85	48.33	49.22	47.59	48.14	48.03	47.42	47.13	47.83	47.80	
2	47.69	47.77	47.73	47.75	49.54	48.37	48.27	47.85	47.83	46.97	47.83	47.97	
3	47.87	47.94	48.51	47.00	49.38	48.57	48.33	47.93	47.34	46.95	48.01	47.94	
4	48.11	48.07	48.47	47.48	49.38	48.58	47.52	48.13	47.27	47.10	47.98	48.00	
5	48.04	48.11	48.67	47.40	49.75	48.78	46.33	48.18	47.27	47.05	47.84	47.99	
6	47.82	48.19	48.59	46.70	50.34	48.84	47.11	48.22	47.24	47.30	47.98	48.00	
7	47.74	48.27	48.71	47.19	50.66	48.84	47.91	48.15	46.94	47.25	48.04	47.97	
8	47.96	48.30	48.21	48.59	50.45	48.63	48.09	47.56	47.07	47.18	48.10	47.80	
9	48.21	48.13	48.30	48.60	50.26	48.80	48.24	46.82	47.31	47.21	47.82	47.86	
10	48.02	48.08	48.60	48.03	49.95	48.68	48.01	46.98	47.17	47.08	47.87	48.13	
11	48.08	47.51	48.31	47.79	49.98	49.07	47.93	47.68	47.29	46.94	48.03	48.10	
12	48.12	47.78	48.26	47.45	50.43	48.89	47.51	47.50	47.44	46.94	47.82	48.11	
13	47.76	47.98	48.28	46.80	50.13	47.46	46.92	47.49	47.81	46.98	47.73	48.20	
14	47.24	48.03	48.68	47.28	49.76	46.50	46.85	47.88	47.41	47.11	47.75	48.06	
15	47.18	48.19	48.20	48.13	49.91	47.21	46.90	47.92	47.20	47.50	46.66	47.81	
16	47.83	47.78	48.00	47.90	49.78	47.67	47.13	47.83	47.35	47.69	48.32	47.87	
17	47.70	47.65	48.09	47.86	49.68	47.37	47.26	47.90	47.35	47.51	48.47	48.24	
18	47.70	47.26	48.56	47.45	49.40	47.45	47.44	48.12	47.68	47.10	47.67	48.24	
19	47.87	46.87	48.38	46.88	48.83	47.31	47.43	48.03	47.70	47.48	48.00	48.28	
20	48.00	47.74	48.15	47.75	48.81	47.10	47.75	47.99	47.81	47.67	48.03	48.32	
21	48.02	47.86	48.04	48.53	48.98	46.74	47.85	48.25	47.22	47.83	48.05	48.23	
22	48.11	48.20	47.52	48.67	49.49	46.97	48.14	48.37	47.23	47.49	48.00	48.19	
23	48.14	48.98	47.61	49.83	49.56	47.91	47.89	48.04	47.40	47.53	48.05	48.19	
24	48.22	49.64	47.79	49.97	49.26	47.87	47.57	48.19	47.12	47.73	48.14	48.24	
25	48.38	49.06	47.99	49.57	48.95	47.74	47.30	48.34	47.23	47.94	48.01	48.24	
26	48.32	48.56	47.96	48.40	48.60	48.10	46.92	48.36	46.97	47.56	48.15	48.22	
27	48.11	48.69	47.98	47.62	48.60	47.33	47.12	48.33	46.96	47.39	48.15	48.14	
28	48.13	48.58	47.89	47.85	48.58	46.40	47.67	48.37	47.09	47.30	48.01	48.12	
29	48.38	48.75	47.92	48.87	48.62	46.84	47.97	48.30	47.06	47.57		47.79	
30	48.42	48.52	48.04	48.45	48.62	48.00	47.87	47.72	47.32	47.56		47.87	
31		48.44		48.99	47.85		48.07		47.44	47.83		47.98	
MEAN	47.96	48.16	48.18	48.04	49.44	47.85	47.59	47.95	47.32	47.35	47.94	48.06	
MAX	48.42	49.64	48.71	49.97	50.66	49.07	48.33	48.37	47.83	47.94	48.47	48.32	50.66
MIN	47.18	46.87	47.52	46.70	47.85	46.40	46.33	46.82	46.94	46.94	46.66	47.79	46.33

ANNUAL MAX MOMENTARY GAGE HEIGHT 50.72 M (MSL), AT 6.00 HOURS, ON AUG 7, 1981

ZERO GAGE AT BOTTOM ELEVATION 44.00 M (MSL), RIVER BED 44.09 M (MSL)

LEFT BANK ELEVATION 52.74 M (MSL)

RIGHT BANK ELEVATION 54.10 M (MSL), DRAINAGE AREA 19383 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	377.3	471.0	411.5	507.0	695.4	362.1	469.0	447.0	330.6	280.1	407.7	402.0	
2	381.1	396.3	388.7	392.5	765.8	515.0	495.0	411.5	407.7	252.9	407.7	435.0	
3	415.3	429.0	544.1	258.0	730.6	556.7	507.0	427.0	316.2	249.5	443.0	429.0	
4	463.0	455.0	535.7	341.4	730.6	558.8	348.8	467.0	303.9	275.0	437.0	441.0	
5	449.0	463.0	577.7	327.0	812.5	600.8	155.2	477.0	303.9	266.5	409.6	439.0	
6	405.8	479.0	560.9	210.0	952.6	613.4	276.7	485.0	298.8	309.0	437.0	441.0	
7	390.6	495.0	586.1	290.3	1029.4	613.4	423.0	471.0	247.8	300.5	449.0	435.0	
8	433.0	501.0	483.0	560.9	979.0	569.3	459.0	356.4	269.9	288.6	461.0	402.0	
9	483.0	467.0	501.0	563.0	933.4	605.0	489.0	228.2	310.8	293.7	405.8	413.4	
10	445.0	457.0	563.0	447.0	859.0	579.8	443.0	254.6	286.9	271.6	415.3	467.0	
11	457.0	346.9	503.0	400.1	866.2	662.4	427.0	379.2	307.3	247.8	447.0	461.0	
12	465.0	398.2	493.0	336.0	974.2	623.9	346.9	345.0	334.2	247.8	405.8	463.0	
13	394.4	437.0	497.0	225.0	902.2	337.8	244.4	343.2	403.9	254.6	388.7	481.0	
14	298.8	447.0	579.8	305.6	814.8	180.0	233.0	417.2	328.8	276.7	392.5	453.0	
15	288.6	479.0	481.0	467.0	849.4	293.7	241.0	425.0	292.0	345.0	204.0	403.9	
16	407.7	398.2	441.0	421.0	819.4	377.3	280.1	407.7	318.0	381.1	505.0	415.3	
17	383.0	373.5	459.0	413.4	796.6	321.6	302.2	421.0	318.0	346.9	535.7	489.0	
18	383.0	302.2	554.6	336.0	735.0	336.0	334.2	465.0	379.2	275.0	377.3	469.0	
19	415.3	236.2	517.0	237.8	611.3	310.8	332.4	447.0	383.0	341.4	441.0	497.0	
20	441.0	390.6	471.0	392.5	607.1	275.0	392.5	439.0	403.9	377.3	447.0	505.0	
21	445.0	413.4	449.0	548.3	642.8	216.0	411.5	491.0	295.4	407.7	451.0	487.0	
22	463.0	481.0	348.8	577.7	754.8	252.9	469.0	515.0	297.1	343.2	441.0	479.0	
23	469.0	642.8	365.9	830.9	770.2	423.0	419.1	449.0	327.0	350.7	451.0	479.0	
24	485.0	787.8	400.1	863.8	704.2	415.3	358.3	479.0	278.4	388.7	469.0	489.0	
25	517.0	660.2	439.0	772.4	636.5	390.6	309.0	509.0	297.1	429.0	443.0	489.0	
26	505.0	554.6	433.0	521.0	563.0	461.0	244.4	513.0	252.9	356.4	471.0	495.0	
27	463.0	581.9	437.0	367.8	563.0	314.4	278.4	507.0	251.2	325.2	471.0	469.0	
28	467.0	556.8	419.1	411.5	556.8	165.0	377.3	515.0	273.3	309.0	443.0	465.0	
29	517.0	594.5	425.0	619.7	567.2	231.4	435.0	501.0	268.2	358.3		400.1	
30	525.2	546.2	449.0	531.5	567.2	441.0	415.3	386.8	312.6	356.4		415.3	
31		529.4		644.9	411.5		455.0		334.2	407.7		437.0	
TOTAL	13033.1	14772.7	14314.0	14121.0	23203.7	12603.4	11371.7	12979.8	9732.2	9913.3	12057.1	14056.0	162157.8 CMSDAY
MEAN	434.4	476.5	477.1	455.5	748.5	420.1	366.8	432.7	313.9	319.8	430.6	453.4	444.3 CMS
MAX	525.2	787.8	586.1	863.8	1029.4	662.4	507.0	515.0	407.7	429.0	535.7	505.0	1029.4 CMS
MIN	288.6	236.2	348.8	210.0	411.5	165.0	155.2	228.2	247.8	247.8	204.0	400.1	155.2 CMS
RUNOFF	1126.06	1276.36	1236.73	1220.05	2004.80	1088.93	982.51	1121.45	840.86	856.51	1041.73	1214.44	14010.43 MCM

MOMENTARY PEAK 1043.80 CMS, AT 50.72 M (MSL), AT 6.00 HOURS, ON AUG 7, 1981

RUNOFF YIELD 22.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.85 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

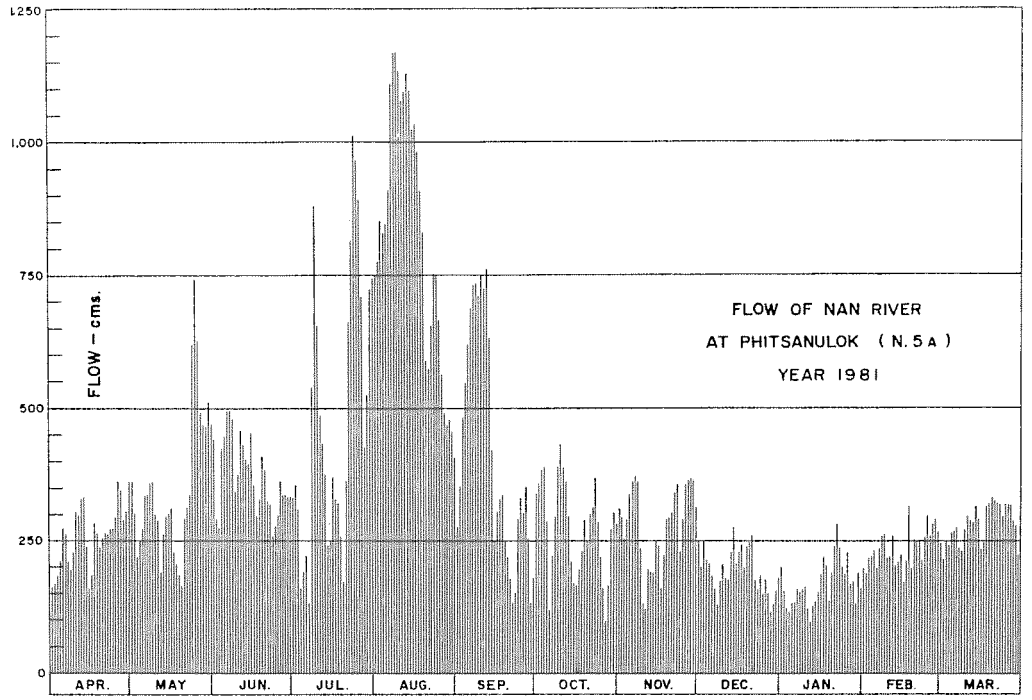
NAN RIVER AT PHITSANULOK, PHITSANULOK (N.5A)

LOCATION	LAT. 16°-49'-15" N., LONG. 100°-15'-49" E., ON LEFT BANK NEAR POST OFFICE AND ABOUT 1 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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 74 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	36.51	38.35	38.87	38.12	40.78	37.66	38.17	37.96	37.41	36.96	36.94	37.53	
2	36.62	37.82	37.78	38.31	40.96	38.36	38.36	37.84	36.94	36.44	36.86	37.09	
3	36.79	37.15	37.60	37.67	41.36	39.30	38.53	37.48	37.41	36.12	37.12	37.45	
4	37.07	37.36	38.78	36.50	41.24	39.96	38.57	37.80	37.10	36.01	37.17	37.38	
5	37.64	37.71	39.00	36.85	41.32	40.11	37.80	38.13	37.03	36.22	37.29	37.56	
6	37.52	38.15	39.27	37.17	41.81	40.47	36.05	38.35	36.87	36.20	36.95	37.59	
7	37.05	38.15	39.29	36.25	42.67	40.70	36.95	38.44	36.58	36.50	37.20	37.65	
8	36.90	38.34	39.15	39.23	42.98	40.71	38.13	38.36	36.19	36.45	37.53	37.31	
9	37.24	38.34	38.26	41.51	43.00	40.58	38.60	37.29	36.48	36.48	37.57	37.21	
10	37.91	37.86	38.46	40.44	42.85	40.79	38.86	36.20	37.02	36.55	37.13	37.50	
11	37.83	37.78	39.03	39.23	42.54	40.66	38.60	36.07	36.73	36.07	37.16	37.85	
12	38.11	36.90	38.84	38.87	42.62	40.89	38.36	36.90	36.73	35.73	37.52	37.77	
13	38.12	37.57	38.68	38.42	42.80	40.19	37.69	36.85	37.22	36.16	36.99	37.74	
14	37.53	37.83	38.57	37.33	42.54	38.51	37.05	36.87	37.65	36.30	37.04	37.98	
15	36.53	37.86	39.01	37.48	42.26	37.41	36.64	37.43	37.03	36.40	37.20	37.77	
16	36.72	37.96	38.37	38.40	42.32	37.89	36.56	37.33	37.22	36.87	36.63	37.29	
17	37.71	37.26	37.82	38.09	42.02	38.07	36.86	36.50	37.37	37.15	37.01	37.42	
18	37.57	36.97	38.11	38.02	41.62	38.15	37.31	37.32	36.96	37.00	37.99	37.98	
19	37.30	36.81	38.72	37.35	40.88	37.31	37.78	37.79	37.33	36.24	36.80	38.02	
20	37.47	36.56	38.48	36.63	39.90	37.08	37.44	37.80	37.36	36.84	37.44	38.12	
21	37.56	37.82	38.06	38.75	39.77	36.63	37.85	37.88	37.50	37.26	37.43	38.10	
22	37.54	38.01	38.01	40.49	40.31	36.21	37.96	38.21	36.76	37.70	37.43	38.01	
23	37.63	38.60	37.46	41.38	40.80	36.42	38.40	38.32	36.50	37.31	37.05	38.01	
24	37.64	40.15	37.65	42.21	40.79	37.79	37.77	37.22	36.83	36.97	37.26	37.85	
25	37.89	40.74	37.76	41.95	40.30	38.11	37.11	37.80	36.37	36.84	37.86	38.05	
26	38.38	39.80	38.35	41.51	39.60	37.90	36.56	38.32	36.72	37.22	37.57	38.00	
27	38.22	39.20	38.16	40.18	39.22	38.27	35.78	38.39	36.45	36.61	37.67	38.02	
28	37.77	39.09	38.16	38.84	39.09	37.34	36.48	38.41	36.00	36.67	37.78	37.81	
29	37.92	39.07	38.13	39.59	39.18	36.22	37.48	38.39	36.19	36.15		37.65	
30	38.35	39.39	38.15	40.62	39.03	36.79	37.93	38.04	36.41	36.87		37.19	
31		39.09		40.75	38.80		37.71		36.71	36.48		37.47	
MEAN	37.50	38.18	38.40	38.97	41.14	38.55	37.59	37.66	36.87	36.61	37.27	37.69	
MAX	38.38	40.74	39.29	42.21	43.00	40.89	38.86	38.44	37.65	37.70	37.99	38.12	43.00
MIN	36.51	36.56	37.46	36.25	38.80	36.21	35.78	36.07	36.00	35.73	36.63	37.09	35.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 43.02 M (MSL), AT 16.00 HOURS, ON AUG 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 34.50 M (MSL), RIVER BED 32.50 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	158.1	359.5	432.5	330.4	745.5	275.2	336.4	311.2	247.1	199.2	197.3	260.3	
2	167.6	294.4	289.6	354.3	777.0	360.8	360.8	296.8	197.3	152.0	189.7	212.4	
3	183.0	218.7	268.0	276.4	849.6	497.0	384.0	254.8	247.1	124.4	215.6	251.5	
4	210.4	241.6	419.1	157.2	827.4	603.5	389.5	292.0	213.5	114.9	220.9	243.8	
5	272.8	281.2	452.0	188.7	842.2	628.7	292.0	331.6	206.1	133.0	233.9	265.8	
6	259.2	334.0	492.5	220.9	933.9	691.2	118.3	359.5	190.6	131.3	198.2	266.9	
7	208.2	334.0	495.5	135.6	1101.0	731.5	198.2	371.5	164.1	157.2	224.0	274.0	
8	193.5	358.2	474.5	486.5	1163.0	733.2	331.6	360.8	130.4	152.9	260.3	236.1	
9	228.4	358.2	347.8	877.3	1167.0	710.5	393.7	233.9	155.5	155.5	264.7	225.1	
10	305.2	299.2	374.3	686.0	1137.0	747.2	431.0	131.3	205.1	161.5	216.6	257.0	
11	295.6	289.6	456.5	486.5	1075.3	724.5	393.7	120.0	177.3	120.0	219.8	298.0	
12	329.2	193.5	428.0	432.5	1091.0	764.7	360.8	193.5	177.3	95.1	259.2	288.4	
13	330.4	264.7	404.7	368.8	1127.0	642.3	278.8	188.7	226.2	127.8	202.0	284.8	
14	260.3	295.6	389.5	238.3	1075.3	381.2	208.2	190.6	274.0	139.9	207.2	313.6	
15	159.8	299.2	453.5	254.8	1020.7	247.1	169.3	249.3	206.1	148.6	224.0	288.4	
16	176.4	311.2	362.1	366.0	1032.4	302.8	162.4	238.3	226.2	190.6	168.4	233.9	
17	281.2	230.6	294.4	326.8	973.9	324.4	189.7	157.2	242.7	218.7	204.0	248.2	
18	264.7	200.1	329.2	318.4	897.8	334.0	236.1	237.2	199.2	203.0	314.8	313.6	
19	235.0	184.9	410.4	240.5	763.0	236.1	289.6	290.8	238.3	134.7	184.0	318.4	
20	253.7	162.4	377.1	168.4	593.7	211.4	250.4	292.0	241.6	187.8	250.4	330.4	
21	263.6	294.4	323.2	414.8	572.4	168.4	298.0	301.6	257.0	230.6	249.3	328.0	
22	261.4	317.2	317.2	694.7	663.2	132.1	311.2	341.3	180.2	280.0	249.3	317.2	
23	271.6	393.7	252.6	853.3	749.0	150.3	366.0	355.6	157.2	236.1	208.2	317.2	
24	272.8	635.5	274.0	1010.9	747.2	290.8	288.4	226.2	186.8	200.1	230.6	298.0	
25	302.8	738.5	287.2	960.5	661.5	329.2	214.5	292.0	146.0	187.8	299.2	322.0	
26	363.4	577.3	359.5	877.3	544.7	304.0	162.4	355.6	176.4	226.2	264.7	316.0	
27	342.6	482.0	335.2	640.6	485.0	349.1	98.6	364.7	152.9	166.7	276.4	318.4	
28	288.4	465.5	335.2	428.0	465.5	239.4	155.5	367.4	114.0	171.9	289.6	293.2	
29	306.4	462.5	331.6	543.0	479.0	133.0	254.8	364.7	130.4	127.0		274.0	
30	359.5	510.5	334.0	717.5	456.5	183.0	307.6	320.8	149.4	190.6		222.9	
31		465.5		740.3	422.0		281.2		175.5	155.5		253.7	
TOTAL	7805.2	10853.4	11100.9	14795.2	25439.7	12426.6	8512.7	8390.9	5991.5	5220.6	6522.3	8671.2	125730.1 CMSDAY
MEAN	260.2	350.1	370.0	477.3	820.6	414.2	274.6	279.7	193.3	168.4	232.9	279.7	344.5 CMS
MAX	363.4	738.5	495.5	1010.9	1167.0	764.7	431.0	371.5	274.0	280.0	314.8	330.4	1167.0 CMS
MIN	158.1	162.4	252.6	135.6	422.0	132.1	98.6	120.0	114.0	95.1	168.4	212.4	95.1 CMS
RUNOFF	674.37	937.73	959.12	1278.30	2197.99	1073.66	735.50	724.97	517.66	451.06	563.53	749.19	10863.08 MCM

MOMENTARY PEAK 1171.00 CMS, AT 43.02 M (MSL), AT 16.00 HOURS, ON AUG 9, 1981

RUNOFF YIELD 13.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

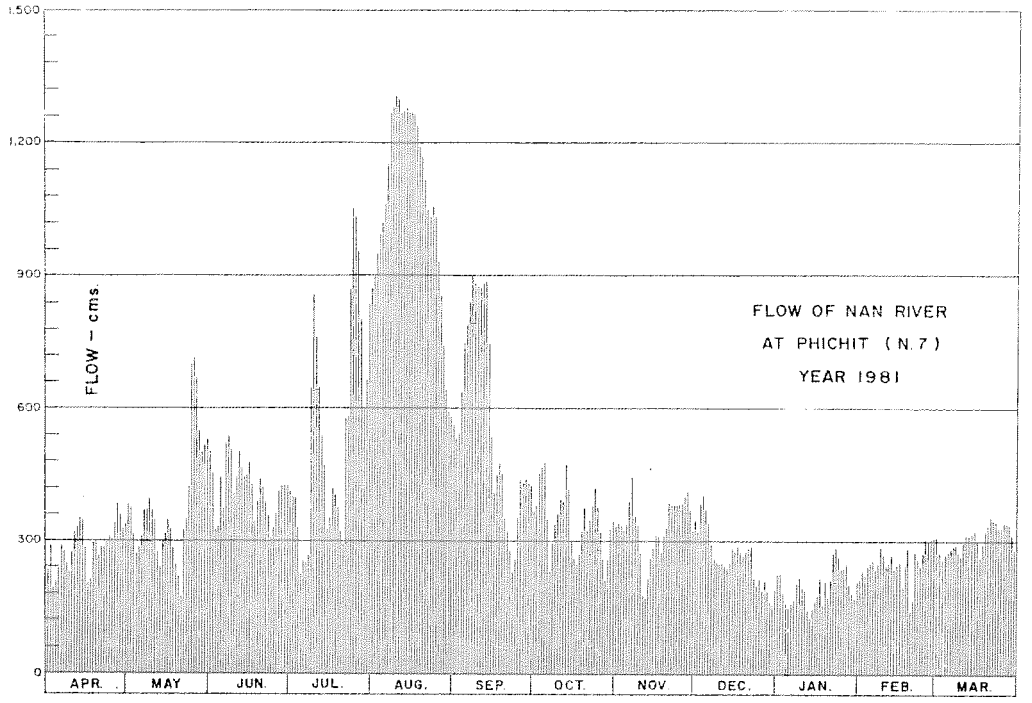
NAN RIVER AT PHICHIT, PHICHIT (N.7)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY SIRIKIT DAM SINCE JUNE 5, 1971.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	29.13	30.48	31.36	30.67	33.78	31.77	30.38	30.04	30.18	29.05	28.92	29.87	
2	29.62	30.42	30.98	30.61	33.91	31.57	30.52	30.14	29.97	29.07	29.10	29.58	
3	28.67	29.90	29.96	30.58	34.24	31.69	30.95	30.05	30.41	28.63	29.01	29.31	
4	28.88	29.44	30.09	29.88	34.49	32.24	31.10	29.97	30.66	28.29	29.25	29.50	
5	29.29	29.66	30.91	28.95	34.65	32.95	31.17	30.17	30.43	28.15	29.32	29.56	
6	29.66	29.97	30.43	29.32	34.90	33.27	29.96	30.54	30.07	28.30	29.35	29.65	
7	29.54	30.35	31.48	29.30	35.49	33.62	29.10	30.94	29.69	28.41	29.18	29.72	
8	29.18	30.38	31.58	29.45	35.96	33.88	29.78	30.43	29.38	28.78	29.32	29.72	
9	29.07	30.58	31.25	32.89	36.07	33.75	30.11	30.16	29.29	28.92	29.70	29.96	
10	29.56	30.39	30.67	33.63	36.18	33.77	30.31	29.60	29.27	28.70	29.58	29.36	
11	29.96	30.23	31.06	32.81	36.10	33.73	30.57	28.55	29.30	28.67	29.27	29.66	
12	30.06	29.58	31.36	31.94	35.95	33.80	30.56	28.42	29.24	28.19	29.41	29.94	
13	30.21	29.19	31.03	31.61	36.00	33.77	31.16	29.11	29.14	27.87	29.46	29.89	
14	30.17	29.78	30.92	30.91	36.02	32.86	30.70	29.45	29.33	28.11	29.15	29.92	
15	29.58	29.92	30.99	30.00	35.98	31.67	29.84	29.61	29.63	28.38	29.20	30.00	
16	28.79	30.19	31.19	30.26	35.97	30.69	29.42	29.92	29.52	28.53	29.28	29.80	
17	28.92	30.04	30.55	30.73	35.91	30.96	29.27	29.87	29.67	28.95	28.73	29.39	
18	29.77	29.59	30.17	30.60	35.74	31.16	29.56	29.50	29.53	28.25	29.22	29.66	
19	29.74	29.22	30.53	30.43	35.54	30.98	29.99	29.94	29.37	28.85	29.65	29.99	
20	29.46	28.96	30.88	29.85	35.40	30.15	30.41	30.10	29.55	28.47	28.06	30.04	
21	29.66	28.47	30.69	29.71	34.98	29.98	29.96	30.49	29.63	28.99	28.39	30.25	
22	29.67	29.97	30.40	31.84	34.76	29.52	30.21	30.48	29.64	29.46	29.52	30.19	
23	29.76	30.36	30.24	33.15	34.65	29.07	30.45	30.48	28.96	29.69	29.49	30.16	
24	29.85	31.27	29.85	34.19	34.78	29.36	30.74	30.48	28.81	29.43	29.22	30.04	
25	29.87	32.64	30.15	34.74	34.57	30.43	30.44	30.49	28.89	29.17	29.50	30.01	
26	30.15	32.74	30.35	34.58	34.00	30.87	29.83	30.50	28.67	29.16	29.83	30.14	
27	30.48	31.98	30.70	34.13	33.46	30.81	29.16	30.58	28.89	29.26	29.76	30.13	
28	30.32	31.43	30.79	32.69	32.73	30.89	28.89	30.69	28.60	28.73	29.84	30.12	
29	30.01	31.36	30.78	32.00	32.20	30.83	29.43	30.44	28.24	28.56		29.96	
30	30.14	31.48	30.76	32.39	31.97	30.78	29.93	29.97	28.26	28.38		29.75	
31		31.57		33.53	31.89		30.16		28.65	28.85		29.39	
MEAN	29.64	30.37	30.74	31.53	34.78	31.69	30.13	30.04	29.38	28.72	29.28	29.81	
MAX	30.48	32.74	31.58	34.74	36.18	33.88	31.17	30.94	30.66	29.69	29.84	30.25	36.18
MIN	28.67	28.47	29.85	28.95	31.89	29.07	28.89	28.42	28.24	27.87	26.06	29.31	27.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 36.19 M (MSL), AT 16.00 HOURS, ON AUG 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 26.00 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 29153 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	233.0	382.6	501.4	407.4	879.7	561.5	370.6	329.8	346.6	225.0	212.8	309.7	
2	282.2	375.4	449.3	399.3	901.7	531.5	387.6	341.8	321.4	227.0	230.0	278.0	
3	190.3	313.0	320.2	395.4	957.8	549.5	445.2	331.0	374.2	186.7	221.0	251.0	
4	209.2	264.0	335.8	310.8	1001.3	632.0	465.5	321.4	406.1	158.2	245.0	270.0	
5	249.0	286.6	439.9	215.5	1029.2	745.0	475.0	345.4	376.6	147.0	252.0	276.0	
6	286.6	321.4	376.6	252.0	1073.0	796.2	320.2	390.2	333.4	159.0	255.0	285.5	
7	274.0	367.0	518.2	250.0	1179.2	853.3	230.0	443.9	289.9	167.8	238.0	293.2	
8	238.0	370.6	533.0	265.0	1263.8	896.6	299.8	376.6	258.0	200.2	252.0	293.2	
9	227.0	395.4	486.0	735.4	1283.6	874.8	338.2	344.2	249.0	212.8	291.0	276.0	
10	276.0	371.8	407.4	855.0	1303.4	878.1	362.2	280.0	247.0	193.0	278.0	256.0	
11	320.2	352.6	460.1	722.6	1289.0	871.5	394.1	179.5	250.0	190.3	247.0	286.6	
12	332.2	278.0	501.4	587.0	1262.0	883.0	392.8	168.6	244.0	150.2	261.0	317.8	
13	350.2	239.0	456.1	537.5	1271.0	878.1	473.6	231.0	234.0	125.9	266.0	311.9	
14	345.4	299.8	441.2	439.9	1274.6	730.6	411.5	265.0	253.0	143.8	235.0	315.4	
15	278.0	315.4	450.7	325.0	1267.4	546.5	306.4	281.1	283.3	165.4	240.0	325.0	
16	201.1	347.8	477.7	356.2	1265.6	410.2	262.0	315.4	272.0	177.7	248.0	302.0	
17	212.8	329.8	391.5	415.6	1254.8	446.6	247.0	309.7	287.7	215.5	195.7	259.0	
18	298.7	279.0	345.4	398.0	1224.2	473.6	276.0	270.0	273.0	155.0	242.0	286.6	
19	295.4	242.0	388.9	376.6	1188.2	449.3	323.8	317.8	257.0	206.5	285.5	323.8	
20	266.0	216.4	435.8	307.5	1163.0	343.0	374.2	337.0	275.0	172.6	139.8	329.8	
21	286.6	172.6	410.2	292.1	1087.4	322.6	320.2	383.8	283.3	219.1	166.2	355.0	
22	287.7	321.4	373.0	572.0	1048.5	272.0	350.2	382.6	284.4	266.0	272.0	347.8	
23	297.6	368.2	353.8	777.0	1029.2	227.0	379.0	382.6	216.4	289.9	269.0	344.2	
24	307.5	488.8	307.5	949.3	1052.0	256.0	416.9	382.6	202.9	263.0	242.0	329.8	
25	309.7	695.4	343.0	1045.0	1015.3	376.6	377.8	383.8	210.1	237.0	270.0	326.2	
26	343.0	711.4	367.0	1017.0	917.0	434.5	305.3	385.0	190.3	238.0	305.3	341.8	
27	382.6	593.0	411.5	939.1	826.9	426.3	236.0	395.4	210.1	246.0	297.6	340.6	
28	363.4	511.2	423.6	703.4	709.8	437.2	210.1	410.2	184.0	195.7	306.4	339.4	
29	326.2	501.4	422.3	596.0	626.0	429.0	263.0	377.8	154.2	180.4		320.2	
30	341.8	518.2	419.6	655.4	591.5	422.3	316.6	321.4	155.8	165.4		296.5	
31		531.5		838.5	579.5		344.2		188.5	206.5		259.0	
TOTAL	8611.4	11760.7	12548.1	16936.5	32815.6	16954.4	10675.0	9984.6	8111.2	6086.6	6983.3	9447.0	150894.2 CMSDAY
MEAN	287.0	379.4	418.3	546.3	1058.6	565.1	344.4	332.8	261.7	196.3	248.7	304.7	413.4 CMS
MAX	382.6	711.4	533.0	1045.0	1303.4	896.6	475.0	443.9	406.1	289.9	306.4	355.0	1303.4 CMS
MIN	190.3	172.6	307.5	215.5	579.5	227.0	210.1	168.6	154.2	125.9	139.8	251.0	125.9 CMS
RUNOFF	744.02	1016.12	1084.15	1463.31	2835.27	1464.86	922.32	862.67	700.81	525.88	601.63	816.22	13037.26 MCM

MOMENTARY PEAK 1305.20 CMS, AT 36.19 M (MSL), AT 16.00 HOURS, ON AUG 10, 1981

RUNOFF YIELD 14.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 44.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 DOWNSTREAM 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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, 1981 TO MARCH 31, 1982

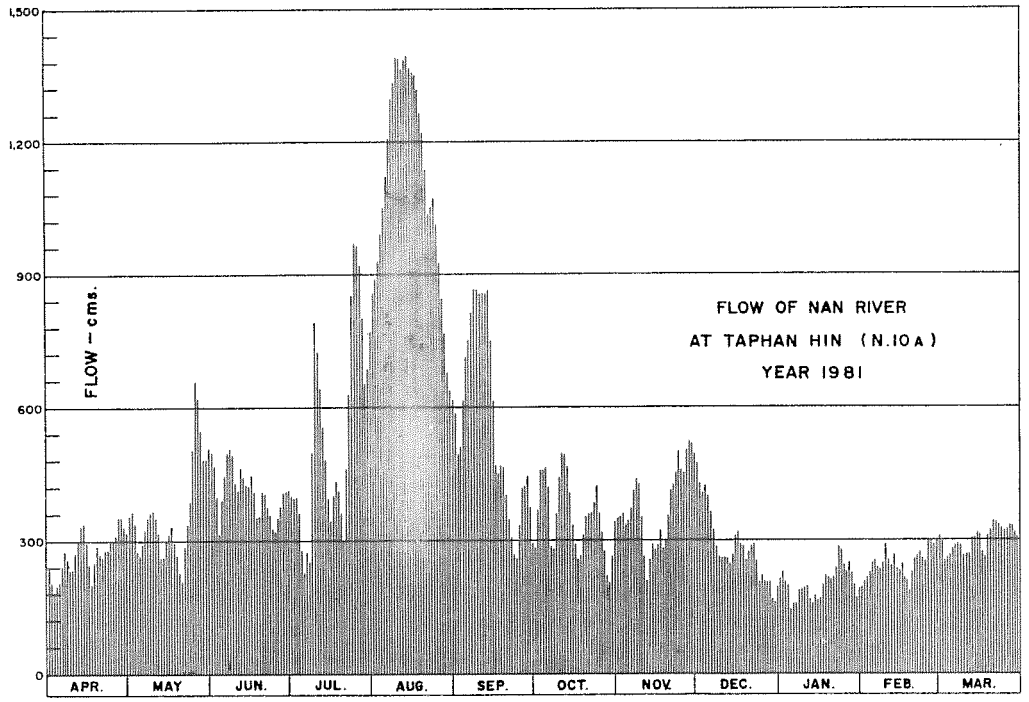
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	25.32	26.36	27.45	26.72	29.86	28.11	25.65	26.32	27.23	25.02	24.85	25.94	
2	24.90	26.45	27.18	26.68	30.05	27.48	26.56	26.38	26.91	25.17	25.03	25.81	
3	24.70	26.14	26.41	26.69	30.32	27.60	27.17	26.39	26.78	24.95	25.08	25.46	
4	24.91	25.59	25.99	26.30	30.68	28.38	27.17	26.16	26.88	24.89	25.19	25.54	
5	25.07	25.53	26.75	25.46	30.98	28.97	27.21	26.26	26.65	24.80	25.38	25.55	
6	25.53	25.83	27.18	25.20	31.19	29.30	26.75	26.61	26.28	24.40	25.43	25.71	
7	25.63	26.19	27.47	25.57	31.55	29.60	25.70	26.88	25.91	24.41	25.20	25.76	
8	25.36	26.34	27.53	25.37	31.92	29.90	25.65	27.02	25.60	24.72	25.26	25.82	
9	25.12	26.41	27.36	27.91	32.11	29.90	26.59	26.92	25.51	24.76	25.55	25.73	
10	25.24	26.45	26.85	29.46	32.21	29.87	27.16	26.27	25.50	24.79	25.75	25.54	
11	25.81	26.27	26.83	29.05	32.20	29.89	27.46	25.36	25.52	24.64	25.45	25.59	
12	25.90	26.03	27.20	28.28	32.14	29.87	27.44	25.01	25.45	24.54	25.33	25.92	
13	26.13	25.42	27.03	27.81	32.21	29.91	27.24	25.52	25.32	24.40	25.55	25.97	
14	26.19	25.55	26.90	27.29	32.23	29.36	26.76	25.74	25.55	24.59	25.26	25.91	
15	25.87	25.90	26.89	26.49	32.14	28.25	26.15	25.65	25.92	24.49	25.20	26.05	
16	25.22	25.99	27.08	26.25	32.13	27.25	25.71	25.93	26.02	24.56	25.35	25.97	
17	24.91	26.15	26.76	26.84	32.10	27.11	25.45	26.04	25.79	24.88	25.04	25.65	
18	25.49	25.73	26.30	26.96	31.99	27.24	25.55	25.68	25.72	25.11	24.99	25.55	
19	25.72	25.39	26.37	26.78	31.80	27.18	25.96	25.84	25.45	25.09	24.78	25.98	
20	25.55	25.14	26.78	26.40	31.46	25.70	26.35	26.41	25.67	24.81	25.43	26.12	
21	25.53	24.95	26.75	25.87	31.08	26.30	26.35	26.78	25.75	24.86	25.46	26.21	
22	25.67	25.76	26.46	27.22	30.82	25.97	26.43	26.94	25.78	25.28	25.58	26.25	
23	25.69	26.21	26.34	28.72	30.93	25.57	26.50	27.23	25.42	25.72	25.59	26.18	
24	25.81	26.72	26.05	29.87	31.00	25.48	26.87	27.50	24.97	25.67	25.41	26.16	
25	25.86	28.06	26.07	30.56	30.73	26.35	26.59	27.13	25.09	25.56	25.43	26.05	
26	25.98	28.61	26.30	30.48	30.34	26.83	26.06	27.14	24.92	25.20	25.84	26.14	
27	26.34	28.12	26.61	30.16	29.79	26.85	25.56	27.55	24.98	25.38	25.77	26.16	
28	26.37	27.61	26.79	29.29	29.23	27.04	25.04	27.67	24.91	25.08	25.80	26.16	
29	26.10	27.37	26.81	28.58	28.74	26.58	24.93	27.57	24.48	24.78		26.03	
30	26.02	27.36	26.81	28.81	28.55	25.77	25.68	27.45	24.45	24.54		25.91	
31		27.55		29.53	28.36		26.24		24.88	24.81		25.60	
MEAN	25.60	26.36	26.78	27.63	30.99	27.82	26.32	26.51	25.65	24.87	25.36	25.88	
MAX	26.37	28.61	27.53	30.56	32.23	29.91	27.46	27.67	27.23	25.72	25.84	26.25	32.23
MIN	24.70	24.95	25.99	25.20	28.36	25.48	24.93	25.01	24.45	24.80	24.78	25.46	24.30

ANNUAL MAX MOMENTARY GAGE HEIGHT — 31.40 M (MSL), AT 22.00 HOURS, ON SEP 12, 1981

ZERO GAGE AT BOTTOM ELEVATION — 22.28 M (MSL), RIVER BED — 21.13 M (MSL)

LEFT BANK ELEVATION — 33.19 M (MSL)

RIGHT BANK ELEVATION — 32.98 M (MSL), DRAINAGE AREA — 30765 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	243.0	356.2	494.0	400.5	855.2	583.4	277.0	351.4	465.4	213.0	197.5	308.4	
2	202.0	367.0	458.9	395.5	889.0	497.9	380.5	358.6	424.2	228.0	214.0	294.1	
3	184.0	330.4	362.2	396.7	938.2	514.0	457.6	359.8	408.0	206.5	219.0	257.0	
4	202.9	270.6	313.9	349.0	994.6	621.2	457.6	332.6	420.5	174.1	230.0	265.3	
5	218.0	264.2	404.2	257.0	1066.0	708.5	462.8	344.2	391.7	148.0	249.0	266.3	
6	264.2	296.3	458.9	231.0	1110.8	760.0	404.2	386.7	346.6	157.0	254.0	283.4	
7	274.9	335.9	496.6	268.5	1193.5	811.0	282.3	420.5	305.1	157.9	231.0	268.7	
8	247.0	353.8	504.5	248.0	1292.2	862.0	277.0	438.1	271.7	185.8	237.0	295.2	
9	223.0	362.2	482.3	555.8	1353.4	862.0	384.2	425.5	262.1	189.4	266.3	285.5	
10	235.0	367.0	416.7	787.2	1387.6	856.9	456.3	345.4	261.0	192.1	287.7	265.3	
11	294.1	345.4	414.2	720.5	1384.0	860.3	495.3	247.0	263.1	196.6	256.0	270.6	
12	304.0	318.3	461.5	607.2	1363.6	856.9	492.7	212.0	256.0	169.6	244.0	306.2	
13	329.3	253.0	439.4	542.3	1387.6	863.8	466.7	263.1	243.0	157.0	266.3	311.7	
14	335.9	266.3	423.0	473.2	1394.8	770.2	405.5	286.6	266.3	174.1	237.0	305.1	
15	300.7	304.0	421.7	371.8	1363.6	603.0	331.5	277.0	306.2	165.1	231.0	320.5	
16	233.0	313.9	445.9	343.0	1360.2	468.0	283.4	307.3	317.2	171.4	246.0	311.7	
17	202.9	331.5	405.5	415.5	1350.0	449.8	256.0	319.4	291.9	200.2	215.0	277.0	
18	260.0	285.5	349.0	430.5	1313.9	466.7	266.3	280.2	284.5	222.0	210.1	266.3	
19	284.5	250.0	357.4	408.0	1258.0	458.9	310.6	297.4	256.0	220.0	191.2	312.8	
20	266.3	225.0	408.0	361.0	1171.4	398.0	355.0	362.2	279.1	193.9	254.0	328.2	
21	264.2	206.5	404.2	300.7	1087.2	349.0	355.0	408.0	287.7	198.4	257.0	338.2	
22	279.1	288.7	368.2	464.1	1034.0	311.7	364.6	428.0	290.9	239.0	269.5	343.0	
23	281.3	338.2	353.8	671.0	1056.0	268.5	385.5	465.4	253.0	284.5	270.6	334.8	
24	294.1	400.5	320.5	856.9	1070.0	259.0	419.2	500.5	208.3	279.1	252.0	332.6	
25	299.6	576.4	322.7	967.4	1009.3	355.0	384.2	452.4	220.0	247.0	254.0	320.5	
26	312.8	654.5	349.0	960.2	941.9	414.2	321.6	453.7	203.8	231.0	297.4	330.4	
27	353.8	584.8	386.7	908.8	843.3	420.5	267.4	507.2	209.2	249.0	289.8	332.6	
28	357.4	515.3	409.2	758.4	748.8	440.7	215.0	523.4	202.9	219.0	293.0	332.6	
29	326.0	483.6	411.7	650.0	674.0	383.0	204.7	509.9	164.2	191.2		318.3	
30	317.2	482.3	411.7	684.5	645.5	289.8	280.2	494.0	161.5	169.6		305.1	
31		507.2		799.1	618.4		341.8		200.2	193.9		271.7	
TOTAL	8190.2	11234.5	12255.5	16583.3	34156.0	16763.9	11041.7	11357.5	8721.3	6223.4	6919.4	9379.1	152825.6 CMSDAY
MEAN	273.0	362.4	408.5	534.9	1101.8	558.8	356.2	378.6	281.3	200.8	247.1	302.6	418.7 CMS
MAX	357.4	654.5	504.5	967.4	1394.8	863.8	495.3	523.4	465.4	284.5	297.4	343.0	1394.8 CMS
MIN	184.0	206.5	313.9	231.0	618.4	259.0	204.7	212.0	161.5	148.0	191.2	257.0	148.0 CMS
RUNOFF	707.63	970.66	1058.87	1432.80	2951.08	1448.40	954.00	981.29	753.52	537.70	597.84	810.35	13204.13 MCM

MOMENTARY PEAK 1157.00 CMS, AT 31.40 M (MSL), AT 22.00 HOURS, ON SEP 12, 1981

RUNOFF YIELD 13.61 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 37.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 152 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

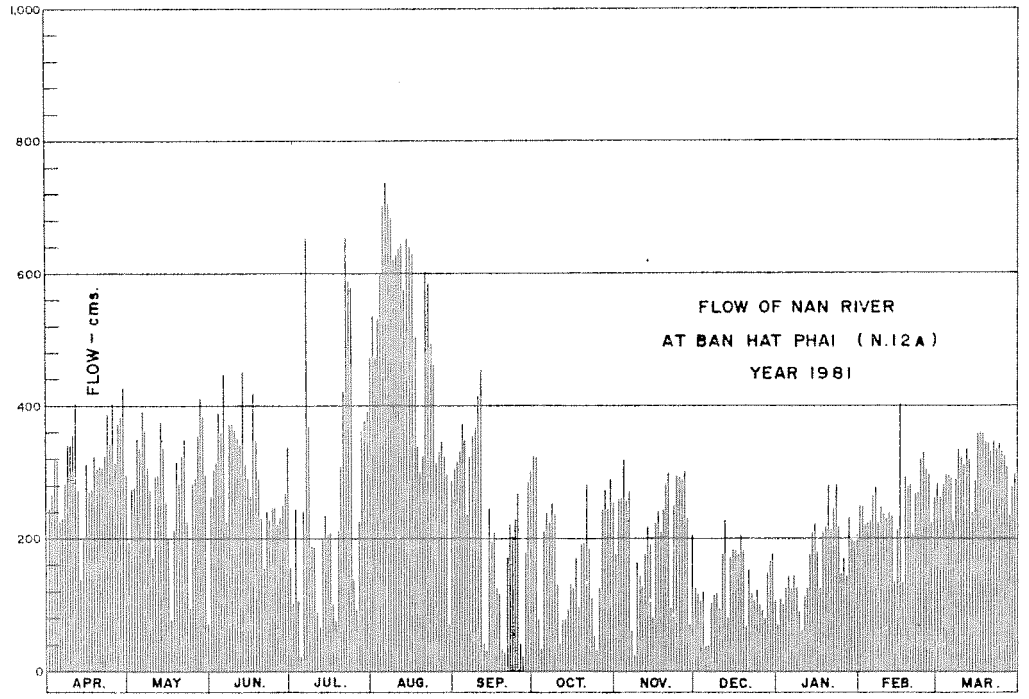
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	72.02	71.65	72.13	71.27	73.58	72.44	72.53	71.50	71.03	70.40	72.06	72.28	
2	72.21	72.23	72.41	70.79	73.31	72.49	72.54	72.11	70.93	70.88	72.06	72.15	
3	72.53	72.26	72.51	72.02	73.58	72.58	70.35	72.14	70.84	70.78	71.86	72.25	
4	72.49	72.70	72.90	70.02	73.89	72.83	69.91	72.50	70.97	71.09	71.90	72.36	
5	71.88	72.61	72.75	69.73	74.22	72.67	71.78	72.11	69.99	71.24	71.92	72.38	
6	71.93	72.91	73.19	71.88	74.31	71.95	71.99	72.20	70.03	71.04	72.17	72.35	
7	72.36	72.72	71.88	74.02	74.20	72.52	71.88	70.27	70.76	71.22	72.25	71.90	
8	72.64	72.38	72.81	72.26	74.11	72.73	72.09	69.81	70.92	71.07	71.88	72.35	
9	72.64	72.21	72.82	71.58	73.90	72.80	71.97	71.39	70.94	70.64	72.05	72.61	
10	72.75	71.45	72.74	71.58	73.94	73.67	71.38	71.19	70.73	70.27	71.98	72.53	
11	72.98	72.35	72.67	70.68	73.97	73.22	70.03	71.04	71.43	70.87	71.93	72.48	
12	71.99	72.37	72.64	70.32	73.99	70.09	70.48	71.46	71.91	71.04	72.00	72.61	
13	71.16	72.82	73.21	71.64	73.73	69.90	70.51	71.83	70.55	71.34	71.96	72.49	
14	71.60	72.64	72.40	71.96	74.02	72.04	70.66	71.60	71.42	71.76	71.13	72.00	
15	72.47	72.15	72.32	71.73	73.97	71.65	71.09	70.54	71.56	71.86	71.89	72.30	
16	72.19	71.52	72.16	71.74	73.94	71.77	71.03	71.86	71.56	71.46	72.97	72.73	
17	72.23	70.49	73.05	70.70	73.68	70.98	71.42	72.00	71.49	71.04	71.11	72.76	
18	72.53	71.48	72.67	70.49	72.52	70.93	70.71	71.77	71.75	71.78	72.35	72.75	
19	72.42	72.49	72.27	71.94	72.40	69.92	71.60	72.08	71.57	71.85	72.25	72.69	
20	72.47	72.27	71.94	72.53	72.55	69.76	71.63	72.30	70.37	72.26	72.29	72.68	
21	72.43	72.51	71.31	73.18	73.83	71.45	72.26	72.39	71.29	71.81	71.77	72.59	
22	72.59	72.68	72.00	74.02	73.77	71.85	71.64	70.69	70.96	72.03	72.18	72.68	
23	72.89	71.86	71.90	73.79	73.41	71.71	70.86	72.10	70.83	72.27	72.20	72.61	
24	72.67	70.69	72.02	73.74	73.15	71.87	70.15	72.37	71.01	71.82	72.50	72.67	
25	72.97	72.27	72.04	71.16	72.49	72.19	69.89	72.34	70.81	71.25	72.59	72.62	
26	72.48	72.37	71.85	70.65	72.59	70.04	71.18	72.32	70.68	71.45	72.42	72.55	
27	72.81	72.64	71.94	71.92	72.67	69.80	72.00	72.40	70.32	71.21	72.37	72.45	
28	72.86	73.00	72.04	72.74	72.55	71.63	72.22	71.96	71.21	71.94	71.87	71.97	
29	73.09	72.84	72.21	72.83	72.39	72.26	72.03	70.41	71.40	71.73		72.26	
30	72.42	72.33	72.62	72.91	70.41	72.42	72.34	71.73	71.51	71.66		72.38	
31		70.41		73.28	72.27		72.11		70.82	71.74		72.42	
MEAN	72.42	72.17	72.38	71.91	73.33	71.74	71.36	71.68	71.02	71.38	72.07	72.45	
MAX	73.09	73.00	73.21	74.02	74.31	73.67	72.54	72.50	71.91	72.27	72.97	72.76	74.31
MIN	71.16	70.41	71.31	69.73	70.41	69.76	69.89	69.81	69.99	70.27	71.11	71.90	69.73

ANNUAL MAX MOMENTARY GAGE HEIGHT — 74.65 M (MSL), AT 15.00 HOURS, ON AUG 5, 1981

ZERO GAGE AT BOTTOM ELEVATION — 69.00 M (MSL); RIVER BED 67.45 M (MSL)

LEFT BANK ELEVATION — 84.98 M (MSL)

RIGHT BANK ELEVATION — 83.73 M (MSL); DRAINAGE AREA 15718 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	243.0	194.5	259.5	150.7	535.2	306.8	322.1	176.0	125.1	70.0	249.0	282.0	
2	271.5	274.5	301.7	103.1	472.2	315.3	323.8	256.5	115.7	111.2	249.0	262.5	
3	322.1	279.0	318.7	243.0	535.2	330.6	66.0	261.0	107.6	102.2	221.8	277.5	
4	315.3	351.0	388.0	39.6	616.3	374.7	32.1	317.0	119.3	131.4	227.0	294.0	
5	224.4	335.7	360.0	20.5	708.0	345.9	211.4	256.5	37.3	147.4	229.6	297.0	
6	230.9	390.0	446.0	224.4	735.0	233.5	238.7	270.0	40.4	126.2	265.5	292.5	
7	294.0	354.6	224.4	651.6	702.0	320.4	224.4	59.6	100.4	145.2	277.5	227.0	
8	340.8	297.0	370.9	279.0	676.8	356.4	253.5	25.7	114.8	129.3	224.4	292.5	
9	340.8	271.5	372.8	185.6	619.0	369.0	236.1	163.9	116.6	89.6	247.5	335.7	
10	360.0	170.5	358.2	185.6	629.8	558.2	162.8	141.9	97.7	59.6	237.4	322.1	
11	404.0	292.5	345.9	93.2	637.9	452.4	40.4	126.2	168.3	110.3	230.9	313.6	
12	238.7	295.5	340.8	63.6	643.3	45.2	76.4	171.6	228.3	126.2	240.0	335.7	
13	138.8	372.8	450.2	193.2	573.8	31.5	78.8	217.9	82.0	158.4	234.8	315.3	
14	188.0	340.8	300.0	234.8	651.6	246.0	91.4	188.0	167.2	208.8	135.6	240.0	
15	311.9	262.5	288.0	204.9	637.9	194.5	131.4	81.2	183.2	221.8	225.7	295.0	
16	268.5	178.4	264.0	206.2	629.8	210.1	125.1	221.8	183.2	171.6	402.0	356.4	
17	274.5	77.2	418.0	95.0	560.8	120.2	167.2	240.0	174.9	126.2	133.5	361.8	
18	322.1	173.8	345.9	77.2	320.4	115.7	95.9	210.1	207.5	211.4	292.5	360.0	
19	303.4	315.3	280.5	232.2	300.0	32.8	188.0	252.0	184.4	220.5	277.5	349.3	
20	311.9	280.5	232.2	322.1	325.5	22.4	191.9	285.0	67.6	279.0	283.5	347.6	
21	305.1	318.7	155.1	444.0	600.1	170.5	279.0	298.5	152.9	215.3	210.1	332.3	
22	332.3	347.6	240.0	651.6	584.2	220.5	193.2	94.1	118.4	244.5	267.0	347.6	
23	386.1	221.8	227.0	589.4	494.4	202.3	109.4	255.0	106.7	280.5	270.0	335.7	
24	345.9	94.1	243.0	576.4	438.0	223.1	50.0	295.5	123.0	216.6	317.0	345.9	
25	402.0	280.5	246.0	138.8	315.3	268.5	30.9	291.0	104.9	148.5	332.3	337.4	
26	313.6	295.5	220.5	90.5	332.3	41.2	140.9	288.0	93.2	170.5	303.4	325.5	
27	370.9	340.8	232.2	229.6	345.9	25.0	240.0	300.0	63.6	144.1	295.5	308.5	
28	380.4	408.0	246.0	358.2	325.5	191.9	273.0	234.8	144.1	232.2	223.1	236.1	
29	426.0	376.6	271.5	374.7	298.5	279.0	244.5	70.8	165.0	204.9		279.0	
30	303.4	289.5	337.4	390.0	70.8	303.4	291.0	204.9	177.2	195.8		297.0	
31		70.8		465.6	280.5		256.5		105.8	206.2		303.4	
TOTAL	9270.3	8551.5	9084.4	8114.3	15596.0	6907.0	5365.8	6254.5	3976.3	5205.4	7103.1	9595.9	95024.4 CMSDAY
MEAN	309.0	275.9	302.8	261.8	503.1	230.2	173.1	208.5	128.3	167.9	253.7	309.5	260.3 CMS
MAX	426.0	408.0	450.2	651.6	735.0	558.2	323.8	317.0	228.3	280.5	402.0	361.8	735.0 CMS
MIN	138.8	70.8	155.1	20.5	70.8	22.4	30.9	25.7	37.3	59.6	133.5	227.0	20.5 CMS
RUNOFF	800.95	738.85	784.89	701.07	1347.49	596.76	463.60	540.39	343.55	449.75	613.71	829.08	8210.11 MCM

MOMENTARY PEAK 842.50 CMS, AT 74.65 M (MSL), AT 15.00 HOURS, ON AUG 5, 1981

RUNOFF YIELD 16.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 53.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 20 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 535 DISCHARGE MEASUREMENTS MADE DURING 1969-1971, 1973.

REMARKS — RECORDS POOR DURING NOV.25-DEC.12,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

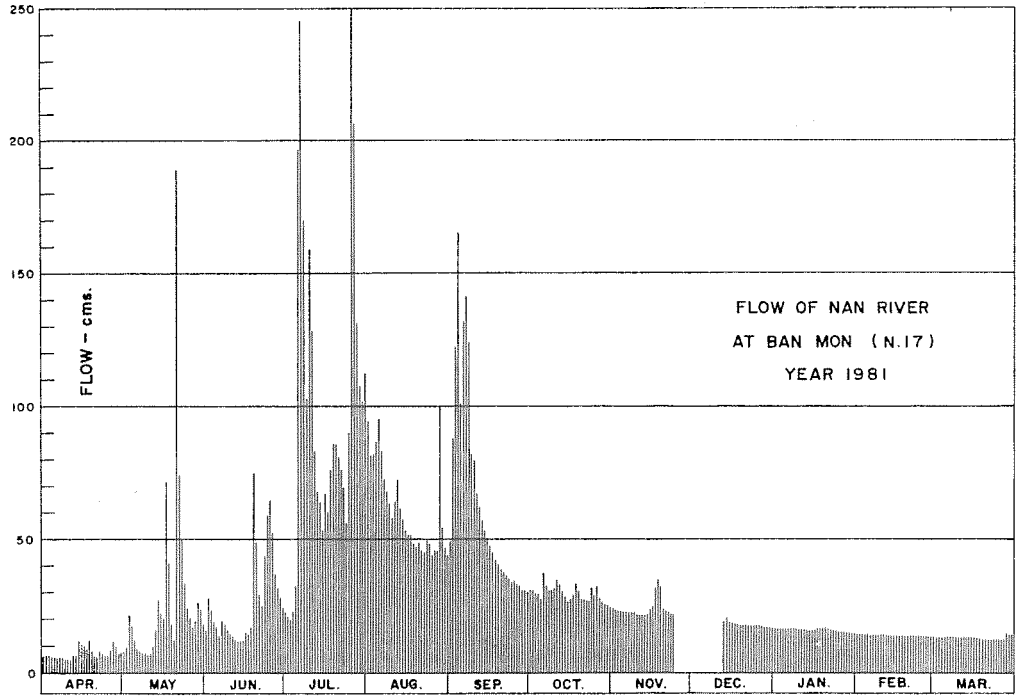
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.59	0.84	1.03	2.12	1.55	1.20	1.05	*******	0.88	0.82	0.77	
2	0.53	0.64	1.13	0.97	1.97	2.08	1.21	1.04	*******	0.88	0.81	0.77	
3	0.51	0.99	1.02	0.94	1.99	2.47	1.18	1.03	*******	0.87	0.81	0.77	
4	0.50	0.91	0.93	1.07	2.06	2.83	1.18	1.02	*******	0.87	0.81	0.78	
5	0.49	0.74	0.89	1.26	2.14	2.21	1.14	1.02	*******	0.87	0.81	0.79	
6	0.48	0.62	0.79	3.51	1.99	2.52	1.33	1.02	*******	0.87	0.81	0.79	
7	0.47	0.59	0.95	3.17	1.89	2.62	1.24	1.03	*******	0.87	0.81	0.78	
8	0.47	0.56	0.92	2.67	1.81	2.44	1.20	1.02	*******	0.86	0.81	0.78	
9	0.47	0.57	0.85	2.23	1.73	1.99	1.21	1.02	*******	0.86	0.81	0.78	
10	0.46	0.54	0.81	2.77	1.67	1.96	1.22	1.00	*******	0.86	0.80	0.78	
11	0.44	0.56	0.79	2.35	1.75	1.80	1.28	1.00	*******	0.85	0.80	0.77	
12	0.53	0.68	0.76	2.01	1.87	1.73	1.23	1.00	*******	0.85	0.80	0.77	
13	0.52	0.86	0.72	1.81	1.72	1.65	1.19	1.00	0.92	0.85	0.80	0.77	
14	0.72	1.12	0.73	1.75	1.66	1.60	1.14	1.01	0.97	0.85	0.79	0.77	
15	0.68	1.00	0.72	1.61	1.60	1.55	1.12	1.03	0.93	0.85	0.79	0.76	
16	0.64	0.87	0.85	1.80	1.57	1.50	1.13	1.06	0.92	0.84	0.79	0.76	
17	0.62	1.86	0.80	1.71	1.57	1.47	1.14	1.21	0.91	0.88	0.79	0.76	
18	0.73	1.39	0.87	1.92	1.53	1.42	1.25	1.28	0.90	0.87	0.79	0.76	
19	0.57	0.91	1.91	2.04	1.50	1.39	1.19	1.24	0.90	0.88	0.79	0.75	
20	0.52	0.75	1.58	2.03	1.53	1.36	1.13	1.04	0.90	0.87	0.79	0.75	
21	0.51	3.05	1.18	1.98	1.49	1.34	1.13	1.03	0.90	0.86	0.79	0.75	
22	0.60	1.86	1.08	1.92	1.45	1.31	1.12	1.01	0.90	0.85	0.79	0.75	
23	0.54	1.48	1.40	1.81	1.55	1.29	1.11	1.00	0.90	0.84	0.79	0.74	
24	0.51	1.19	1.69	1.65	1.53	1.26	1.22	1.00	0.89	0.84	0.78	0.74	
25	0.50	1.04	1.77	2.23	1.45	1.28	1.16	*******	0.90	0.83	0.78	0.74	
26	0.61	0.97	1.55	6.62	1.49	1.24	1.23	*******	0.90	0.83	0.78	0.74	
27	0.71	0.88	1.32	3.20	1.48	1.23	1.13	*******	0.90	0.82	0.78	0.73	
28	0.66	0.94	1.24	2.44	2.19	1.20	1.10	*******	0.89	0.83	0.78	0.82	
29	0.55	1.10	1.13	2.27	1.60	1.21	1.09	*******	0.88	0.83		0.79	
30	0.59	1.05	1.06	2.22	1.50	1.19	1.08	*******	0.88	0.82		0.81	
31		0.92		2.33	1.45		1.06		0.88	0.82		0.79	
MEAN	0.55	1.01	1.08	2.17	1.70	1.69	1.17	*******	*******	0.85	0.80	0.77	
MAX	0.73	3.05	1.91	6.62	2.19	2.83	1.33	1.28	0.97	0.88	0.82	0.82	6.62
MIN	0.44	0.54	0.72	0.94	1.45	1.19	1.06	*******	*******	0.82	0.78	0.73	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.80 M (A.D), AT 12.00 HOURS, ON JUL 26, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.56 M (A.D)

LEFT BANK ELEVATION — 13.72 M (A.D)

RIGHT BANK ELEVATION — 10.15 M (A.D), DRAINAGE AREA 1156 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.00	7.75	15.40	22.85	92.80	49.75	30.50	23.75	*******	16.80	14.70	13.10	
2	6.25	9.20	27.35	20.30	80.10	89.30	31.00	23.30	*******	16.80	14.35	13.10	
3	5.75	21.10	22.40	19.10	81.70	126.00	29.60	22.85	*******	16.45	14.35	13.10	
4	5.50	17.90	18.70	24.65	87.60	164.30	29.60	22.40	*******	16.45	14.35	13.40	
5	5.25	12.20	17.15	33.50	94.60	100.90	27.80	22.40	*******	16.45	14.35	13.70	
6	5.00	8.60	13.70	244.90	81.70	131.00	37.00	22.40	*******	16.45	14.35	13.70	
7	4.75	7.75	19.50	202.40	73.70	141.20	32.50	22.85	*******	16.45	14.35	13.40	
8	4.75	7.00	18.30	146.70	67.30	123.00	30.50	22.40	*******	16.10	14.35	13.40	
9	4.75	7.25	15.75	102.70	61.60	81.70	31.00	22.40	*******	16.10	14.35	13.40	
10	4.50	6.50	14.35	157.70	57.55	79.30	31.50	21.50	*******	16.10	14.00	13.40	
11	4.00	7.00	13.70	114.00	63.00	66.50	34.50	21.50	*******	15.75	14.00	13.10	
12	6.25	10.40	12.80	83.35	72.10	61.60	32.00	21.50	*******	15.75	14.00	13.10	
13	6.00	16.10	11.60	67.30	60.90	56.25	30.05	21.50	18.30	15.75	14.00	13.10	
14	11.60	26.90	11.90	63.00	56.90	53.00	27.80	21.95	20.30	15.75	13.70	13.10	
15	10.40	21.50	11.60	53.65	53.00	49.75	26.90	22.85	18.70	15.75	13.70	12.80	
16	9.20	16.45	15.75	66.50	51.05	46.50	27.35	24.20	18.30	15.40	13.70	12.80	
17	8.60	71.30	14.00	60.20	51.05	44.70	27.80	31.00	17.90	16.80	13.70	12.80	
18	11.90	40.00	16.45	76.10	48.45	41.70	33.00	34.50	17.50	16.45	13.70	12.80	
19	7.25	17.90	75.30	85.90	46.50	40.00	30.05	32.50	17.50	16.80	13.70	12.50	
20	6.00	12.50	51.70	85.05	48.45	38.50	27.35	23.30	17.50	16.45	13.70	12.50	
21	5.75	188.50	29.60	80.90	45.90	37.50	27.35	22.85	17.50	16.10	13.70	12.50	
22	8.00	71.30	25.10	76.10	43.50	36.00	26.90	21.95	17.50	15.75	13.70	12.50	
23	6.50	45.30	40.50	67.30	49.75	35.00	26.45	21.50	17.50	15.40	13.70	12.20	
24	5.75	30.05	58.85	56.25	48.45	33.50	31.50	21.50	17.15	15.40	13.40	12.20	
25	5.50	23.30	64.40	102.70	43.50	34.50	28.70	*******	17.50	15.05	13.40	12.20	
26	8.30	20.30	49.75	846.80	45.90	32.50	32.00	*******	17.50	15.05	13.40	12.20	
27	11.30	16.80	36.50	206.00	45.30	32.00	27.35	*******	17.50	14.70	13.40	11.90	
28	9.80	19.10	32.50	123.00	99.10	30.50	26.00	*******	17.15	15.05	13.40	14.70	
29	6.75	26.00	27.35	106.30	53.00	31.00	25.55	*******	16.80	15.05		13.70	
30	7.75	23.75	24.20	101.80	46.50	30.05	25.10	*******	16.80	14.70		14.35	
31		18.30		112.00	43.50		24.20		16.80	14.70		13.70	
TOTAL	209.10	828.00	806.15	3609.00	1894.45	1917.50	908.90	*******	*******	491.75	389.50	404.45	******** CMSDAY
MEAN	6.97	26.71	26.87	116.42	61.11	63.92	29.32	*******	*******	15.86	13.91	13.05	******* CMS
MAX	11.90	188.50	75.30	846.80	99.10	164.30	37.00	34.50	20.30	16.80	14.70	14.70	846.80 CMS
MIN	4.00	6.50	11.60	19.10	43.50	30.05	24.20	*******	*******	14.70	13.40	11.90	******* CMS
RUNOFF	18.066	71.539	69.651	311.817	163.680	165.672	78.529	*******	*******	42.487	33.653	34.944	******** MCM

MOMENTARY PEAK 1146.00 CMS, AT 7.80 M (A.D), AT 12.00 HOURS, ON JUL 26, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 991.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

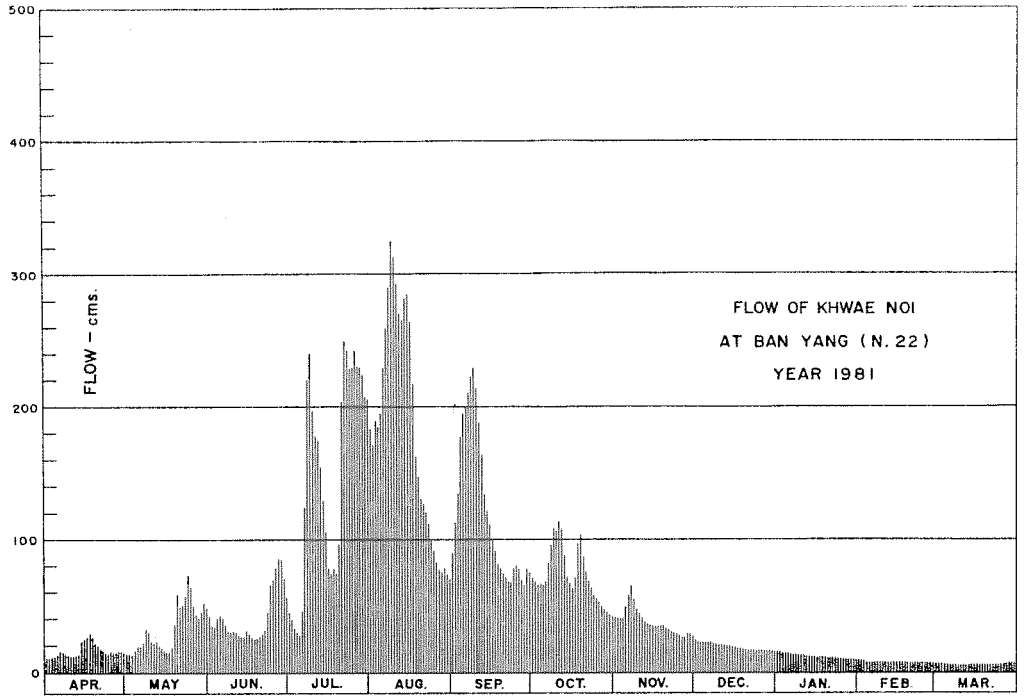
KHWAE NOI AT BAN YANG, PHITSANULOK (N.22)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	44.04	44.14	44.83	45.03	47.38	45.82	45.54	44.88	44.44	44.19	43.95	43.84	
2	44.06	44.12	44.70	44.83	47.16	46.22	45.45	44.86	44.40	44.18	43.96	43.84	
3	44.08	44.11	44.70	44.69	47.40	46.67	45.38	44.84	44.40	44.16	43.92	43.83	
4	44.09	44.23	44.85	44.59	47.36	47.20	45.45	44.87	44.40	44.15	43.89	43.81	
5	44.12	44.32	44.89	44.52	47.45	47.45	45.43	45.04	44.39	44.14	43.89	43.80	
6	44.19	44.28	44.85	44.64	47.90	47.53	45.47	45.21	44.38	44.13	43.89	43.80	
7	44.19	44.38	44.73	46.33	48.16	47.64	45.72	45.40	44.37	44.12	43.89	43.81	
8	44.14	44.66	44.62	47.76	48.49	47.82	45.95	45.23	44.35	44.11	43.89	43.80	
9	44.11	44.57	44.57	48.03	48.92	47.89	46.17	45.02	44.34	44.11	43.89	43.80	
10	44.10	44.40	44.61	47.54	48.80	47.70	46.14	44.91	44.33	44.10	43.89	43.80	
11	44.09	44.38	44.59	47.26	48.51	47.35	46.28	44.84	44.33	44.08	43.89	43.80	
12	44.08	44.41	44.53	47.20	48.36	47.10	46.15	44.78	44.31	44.07	43.89	43.80	
13	44.11	44.31	44.49	46.90	48.31	46.67	45.86	44.76	44.31	44.07	43.89	43.79	
14	44.36	44.24	44.50	46.56	48.49	46.40	45.59	44.74	44.31	44.06	43.89	43.79	
15	44.48	44.20	44.61	46.13	48.50	46.24	45.42	44.71	44.30	44.06	43.89	43.80	
16	44.50	44.18	44.59	45.69	48.20	46.07	45.32	44.70	44.29	44.06	43.89	43.80	
17	44.58	44.21	44.51	45.58	47.73	45.91	45.53	44.70	44.26	44.05	43.88	43.80	
18	44.50	44.29	44.44	45.62	47.15	45.74	45.97	44.72	44.25	44.04	43.88	43.80	
19	44.36	44.79	44.45	45.58	46.85	45.67	46.08	44.72	44.24	44.04	43.88	43.80	
20	44.28	45.24	44.50	46.01	46.57	45.61	45.89	44.70	44.24	44.02	43.88	43.80	
21	44.27	45.05	44.62	47.51	46.51	45.55	45.65	44.66	44.23	44.01	43.88	43.80	
22	44.20	45.11	44.66	48.13	46.39	45.45	45.48	44.62	44.22	44.01	43.88	43.81	
23	44.16	45.23	45.04	48.05	46.18	45.43	45.36	44.57	44.21	44.01	43.88	43.81	
24	44.14	45.57	45.36	47.89	46.03	45.66	45.27	44.56	44.20	44.01	43.88	43.81	
25	44.20	45.34	45.48	47.89	45.88	45.70	45.20	44.54	44.20	44.00	43.88	43.81	
26	44.17	45.10	45.68	48.04	45.75	45.66	45.14	44.52	44.21	44.00	43.87	43.82	
27	44.15	44.92	45.79	47.91	45.64	45.50	45.06	44.52	44.21	43.99	43.86	43.83	
28	44.20	44.85	45.78	47.90	45.60	45.40	45.00	44.55	44.21	43.99	43.85	43.85	
29	44.17	44.96	45.60	47.83	45.66	45.67	44.97	44.56	44.21	43.98		43.86	
30	44.15	45.13	45.31	47.66	45.56	45.61	44.93	44.54	44.20	43.97		43.86	
31		45.02		47.60	45.51		44.90		44.19	43.95		43.87	
MEAN	44.21	44.64	44.86	46.67	47.17	46.34	45.54	44.78	44.29	44.06	43.89	43.81	
MAX	44.58	45.57	45.79	48.13	48.92	47.89	46.28	45.40	44.44	44.19	43.96	43.87	48.92
MIN	44.04	44.11	44.44	44.52	45.51	45.40	44.90	44.52	44.19	43.95	43.85	43.79	43.79

ANNUAL MAX MOMENTARY GAGE HEIGHT 48.98 M (MSL), AT 24.00 HOURS, ON AUG 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 43.00 M (MSL), RIVER BED 43.42 M (MSL)
LEFT BANK ELEVATION 52.15 M (MSL)
RIGHT BANK ELEVATION 51.00 M (MSL), DRAINAGE AREA 4841 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.00	13.70	39.20	47.20	187.40	87.20	72.00	41.20	23.90	15.20	8.75	6.30	
2	11.50	13.10	34.00	39.20	171.20	111.20	67.50	40.40	22.50	14.90	9.00	6.30	
3	12.00	12.80	34.00	33.60	189.00	138.55	64.00	39.60	22.50	14.30	8.00	6.10	
4	12.25	16.55	40.00	29.60	185.80	174.00	67.50	40.80	22.50	14.00	7.30	5.70	
5	13.10	19.70	41.60	26.80	193.00	193.00	66.50	47.60	22.15	13.70	7.30	5.50	
6	15.20	18.30	40.00	31.60	229.00	199.40	68.50	55.50	21.80	13.40	7.30	5.50	
7	15.20	21.80	35.20	117.80	252.40	208.20	81.60	65.00	21.45	13.10	7.30	5.70	
8	13.70	32.40	30.80	217.80	282.10	222.60	95.00	56.50	20.75	12.80	7.30	5.50	
9	12.80	28.80	28.80	240.70	325.20	228.20	108.20	46.80	20.40	12.80	7.30	5.50	
10	12.50	22.50	30.40	200.20	312.00	213.00	106.40	42.40	20.05	12.50	7.30	5.50	
11	12.25	21.80	29.60	178.20	283.90	185.00	114.80	39.60	20.05	12.00	7.30	5.50	
12	12.00	22.85	27.20	174.00	270.40	167.00	107.00	37.20	19.35	11.75	7.30	5.50	
13	12.80	19.35	25.65	153.50	265.90	138.55	89.60	36.40	19.35	11.75	7.30	5.30	
14	21.10	16.90	26.00	131.60	282.10	122.00	74.50	35.60	19.35	11.50	7.30	5.30	
15	25.30	15.50	30.40	105.80	283.00	112.40	66.00	34.40	19.00	11.50	7.30	5.50	
16	26.00	14.90	29.60	79.95	256.00	102.20	61.00	34.00	18.65	11.50	7.30	5.50	
17	29.20	15.85	26.40	74.00	215.40	92.60	71.50	34.00	17.60	11.25	7.10	5.50	
18	26.00	18.65	23.90	76.10	170.50	82.70	96.20	34.80	17.25	11.00	7.10	5.50	
19	21.10	37.60	24.25	74.00	150.25	78.85	102.80	34.80	16.90	11.00	7.10	5.50	
20	18.30	57.00	26.00	98.60	132.20	75.55	91.40	34.00	16.90	10.50	7.10	5.50	
21	17.95	48.00	30.80	197.80	128.60	72.50	77.75	32.40	16.55	10.25	7.10	5.50	
22	15.50	50.50	32.40	249.70	121.40	67.50	69.00	30.80	16.20	10.25	7.10	5.70	
23	14.30	56.50	47.60	242.50	108.80	66.50	63.00	28.80	15.85	10.25	7.10	5.70	
24	13.70	73.50	63.00	228.20	99.80	78.30	58.50	28.40	15.50	10.25	7.10	5.70	
25	15.50	62.00	69.00	228.20	90.80	80.50	55.00	27.60	15.50	10.00	7.10	5.70	
26	14.60	50.00	79.40	241.60	83.25	78.30	52.00	26.80	15.85	10.00	6.90	5.90	
27	14.00	42.80	85.45	229.90	77.20	70.00	48.40	26.80	15.85	9.75	6.70	6.10	
28	15.50	40.00	84.90	229.00	75.00	65.00	46.00	28.00	15.85	9.75	6.50	6.50	
29	14.60	44.40	75.00	223.40	78.30	78.85	44.80	28.40	15.85	9.50		6.70	
30	14.00	51.50	60.50	209.80	73.00	75.55	43.20	27.60	15.50	9.25		6.70	
31		46.80		205.00	70.50		42.00		15.20	8.75		6.90	
TOTAL	482.95	1006.05	1251.05	4615.35	5643.40	3665.20	2271.65	1116.20	576.10	358.45	204.65	179.30	21370.32 CMSDAY
MEAN	16.10	32.45	41.70	148.88	182.05	122.17	73.28	37.21	18.58	11.56	7.31	5.78	58.55 CMS
MAX	29.20	73.50	85.45	249.70	325.20	228.20	114.80	65.00	23.90	15.20	9.00	6.90	325.20 CMS
MIN	11.00	12.80	23.90	26.80	70.50	65.00	42.00	26.80	15.20	8.75	6.50	5.30	5.30 CMS
RUNOFF	41.727	86.923	108.091	398.766	487.589	316.673	196.270	96.440	49.775	30.970	17.682	15.492	1846.395 MCM

MOMENTARY PEAK 331.80 CMS, AT 48.98 M (MSL), AT 24.00 HOURS, ON AUG 9, 1981
RUNOFF YIELD 12.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 68.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 49 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

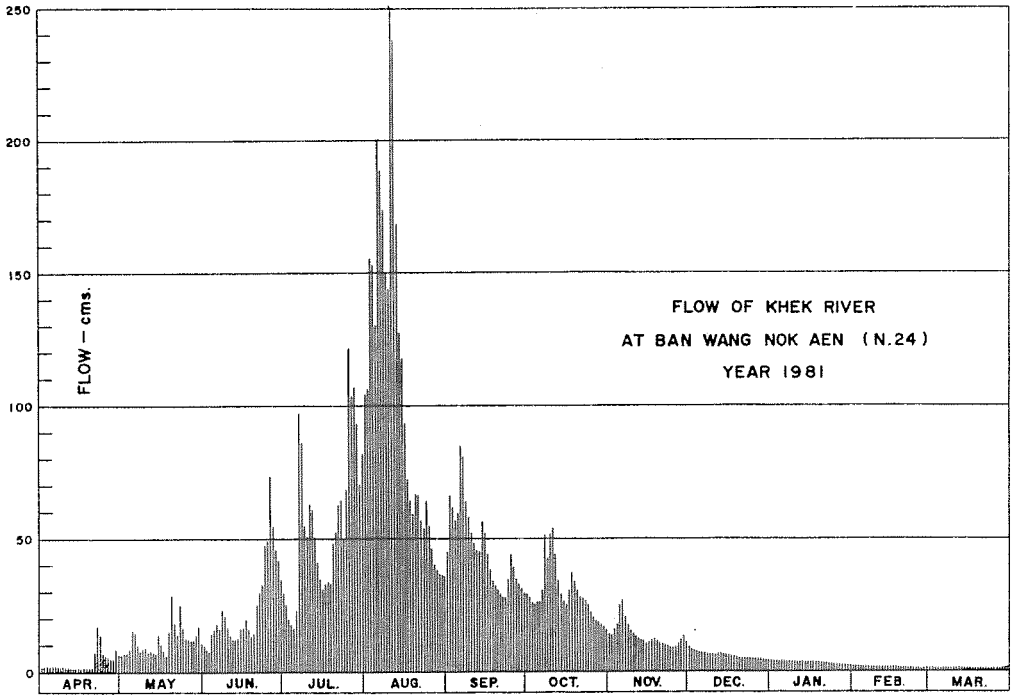
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	1.09	1.38	2.42	4.73	3.03	2.35	1.63	1.32	0.93	0.74	0.63	
2	0.68	1.11	1.30	2.14	4.81	3.72	2.33	1.59	1.26	0.92	0.73	0.61	
3	0.69	1.15	1.24	1.93	5.80	3.57	2.24	1.73	1.23	0.91	0.73	0.60	
4	0.70	1.28	1.67	1.82	5.71	3.40	2.21	1.84	1.21	0.90	0.72	0.60	
5	0.73	1.71	1.71	1.75	5.31	3.53	2.22	2.19	1.18	0.89	0.71	0.61	
6	0.72	1.67	1.85	2.06	6.57	4.27	2.26	2.26	1.16	0.89	0.73	0.63	
7	0.73	1.35	1.75	4.58	6.03	4.16	2.50	2.00	1.17	0.88	0.72	0.64	
8	0.72	1.22	2.08	4.25	6.07	3.66	3.21	1.80	1.15	0.87	0.70	0.65	
9	0.71	1.26	1.92	3.39	5.68	3.48	2.93	1.69	1.13	0.87	0.70	0.65	
10	0.69	1.37	1.72	3.14	5.60	3.31	3.26	1.62	1.11	0.86	0.70	0.64	
11	0.66	1.21	1.60	3.63	8.59	3.15	3.30	1.57	1.10	0.85	0.70	0.63	
12	0.64	1.21	1.54	3.55	7.14	3.03	2.83	1.54	1.12	0.84	0.70	0.63	
13	0.64	1.15	1.53	3.23	6.00	3.01	2.53	1.51	1.13	0.84	0.69	0.61	
14	0.64	1.13	1.59	2.84	5.27	3.41	2.37	1.52	1.10	0.83	0.68	0.60	
15	0.63	1.61	1.76	2.57	5.05	3.24	2.26	1.46	1.08	0.83	0.68	0.59	
16	0.63	1.39	1.79	2.44	4.46	2.96	2.22	1.49	1.07	0.83	0.67	0.59	
17	0.65	1.18	1.94	2.55	3.98	2.81	2.47	1.51	1.04	0.82	0.70	0.59	
18	0.65	1.08	1.69	2.59	3.71	2.63	2.71	1.55	1.03	0.81	0.73	0.61	
19	0.65	1.77	1.60	2.58	3.51	2.52	2.52	1.48	1.02	0.80	0.72	0.62	
20	0.65	2.32	1.68	3.17	3.73	2.45	2.40	1.44	1.00	0.80	0.70	0.60	
21	1.23	1.82	2.29	3.27	3.73	2.37	2.32	1.39	1.00	0.80	0.71	0.58	
22	1.80	1.64	2.42	3.61	3.53	2.32	2.30	1.36	1.00	0.79	0.70	0.58	
23	1.62	2.14	2.51	3.68	3.32	2.33	2.29	1.34	0.98	0.79	0.69	0.58	
24	1.24	1.69	3.12	3.20	3.66	2.58	2.21	1.32	0.97	0.78	0.67	0.57	
25	1.06	1.56	3.14	3.92	3.37	2.95	2.05	1.31	0.97	0.78	0.65	0.56	
26	1.05	1.51	3.95	5.13	3.06	2.78	1.96	1.30	0.96	0.78	0.65	0.55	
27	0.98	1.52	3.40	4.74	2.86	2.61	1.89	1.42	0.95	0.77	0.64	0.55	
28	0.93	1.51	3.06	4.82	2.77	2.52	1.84	1.54	0.95	0.76	0.63	0.57	
29	1.30	1.64	2.90	4.34	2.69	2.48	1.81	1.60	0.94	0.76		0.57	
30	1.12	1.76	2.61	3.84	2.70	2.37	1.78	1.42	0.93	0.75		0.56	
31		1.50		4.16	2.66		1.75		0.93	0.74		0.62	
MEAN	0.86	1.47	2.09	3.27	4.58	3.02	2.37	1.58	1.07	0.83	0.70	0.60	
MAX	1.80	2.32	3.95	5.13	8.59	4.27	3.30	2.26	1.32	0.93	0.74	0.65	8.59
MIN	0.63	1.08	1.24	1.75	2.66	2.32	1.75	1.30	0.93	0.74	0.63	0.55	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.41 M (A.D), AT 8.00 HOURS, ON AUG 11, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.26 M (A.D)

LEFT BANK ELEVATION 15.67 M (A.D)

RIGHT BANK ELEVATION 14.25 M (A.D), DRAINAGE AREA 1861 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.05	5.78	9.70	29.90	102.70	45.31	28.31	13.77	8.80	3.86	1.82	0.91	
2	1.26	6.02	8.50	23.64	105.97	65.74	27.86	13.07	7.94	3.74	1.71	0.77	
3	1.33	6.50	7.66	19.37	154.80	61.10	25.81	15.57	7.52	3.62	1.71	0.70	
4	1.40	8.22	14.47	17.28	150.03	56.00	25.13	17.66	7.24	3.50	1.61	0.70	
5	1.71	15.19	15.19	15.95	129.49	59.90	25.35	24.69	6.86	3.39	1.50	0.77	
6	1.61	14.47	17.85	21.96	199.20	84.87	26.26	26.26	6.62	3.39	1.71	0.91	
7	1.71	9.25	15.95	96.70	167.68	80.75	31.72	20.70	6.74	3.29	1.61	0.98	
8	1.61	7.38	22.38	84.12	169.92	63.86	50.30	16.90	6.50	3.18	1.40	1.05	
9	1.50	7.94	19.18	55.70	148.46	58.40	42.61	14.82	6.26	3.18	1.40	1.05	
10	1.33	9.55	15.38	48.32	144.30	53.30	51.80	13.60	6.02	3.08	1.40	0.98	
11	1.12	7.24	13.25	62.93	335.77	48.60	53.00	12.72	5.90	2.97	1.40	0.91	
12	0.98	7.24	12.20	60.50	235.29	45.31	39.91	12.20	6.14	2.87	1.40	0.91	
13	0.98	6.50	12.02	50.90	166.00	44.77	32.41	11.67	6.26	2.87	1.33	0.77	
14	0.98	6.26	13.07	40.18	127.59	56.30	28.77	11.85	5.90	2.76	1.26	0.70	
15	0.91	13.42	16.14	33.32	117.25	51.20	26.26	10.90	5.66	2.76	1.26	0.63	
16	0.91	9.85	16.71	30.36	92.00	43.42	25.35	11.35	5.54	2.76	1.19	0.63	
17	1.05	6.86	19.56	32.86	74.30	39.37	31.04	11.67	5.18	2.66	1.40	0.63	
18	1.05	5.66	14.82	33.77	65.42	34.76	36.80	12.37	5.06	2.55	1.71	0.77	
19	1.05	16.33	13.25	33.54	59.30	32.18	32.18	11.20	4.94	2.45	1.61	0.84	
20	1.05	27.63	14.65	49.16	66.06	30.59	29.45	10.60	4.70	2.45	1.40	0.70	
21	7.52	17.28	26.95	52.10	66.06	28.77	27.63	9.85	4.70	2.45	1.50	0.56	
22	16.90	13.95	29.90	62.31	59.90	27.63	27.17	9.40	4.70	2.34	1.40	0.56	
23	13.60	23.64	31.95	64.48	53.60	27.86	26.95	9.10	4.46	2.34	1.33	0.56	
24	7.66	14.82	47.76	50.00	63.86	33.54	25.13	8.80	4.34	2.24	1.19	0.49	
25	5.42	12.55	48.32	72.20	55.10	43.15	21.75	8.65	4.34	2.24	1.05	0.42	
26	5.30	11.67	73.25	121.01	46.12	38.59	19.94	8.50	4.22	2.24	1.05	0.35	
27	4.46	11.85	56.00	103.10	40.72	34.25	18.61	10.30	4.10	2.13	0.98	0.35	
28	3.86	11.67	46.12	106.44	38.33	32.18	17.66	12.20	4.10	2.03	0.91	0.49	
29	8.50	13.95	41.80	87.50	36.29	31.27	17.09	13.25	3.98	2.03		0.49	
30	6.14	16.14	34.25	69.58	36.55	28.77	16.52	10.30	3.86	1.93		0.42	
31		11.50		80.75	35.53		15.95		3.86	1.82		0.84	
TOTAL	103.95	356.31	728.23	1709.93	3343.58	1381.74	904.72	393.92	172.44	85.12	39.24	21.84	9241.01 CMSDAY
MEAN	3.46	11.49	24.27	55.16	107.86	46.06	29.18	13.13	5.56	2.75	1.40	0.70	25.32 CMS
MAX	16.90	27.63	73.25	121.01	335.77	84.87	53.00	26.26	8.80	3.86	1.82	1.05	335.77 CMS
MIN	0.91	5.66	7.66	15.95	35.53	27.63	15.95	8.50	3.86	1.82	0.91	0.35	0.35 CMS
RUNOFF	8.981	30.785	62.919	147.738	288.886	119.382	78.168	34.035	14.899	7.354	3.390	1.887	798.423 MCM

MOMENTARY PEAK 396.25 CMS, AT 9.41 M (A.D), AT 8.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 13.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 212.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +49.30 M. (M.S.L)

BENCH MARK — B.M.-H.D. NO.1

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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

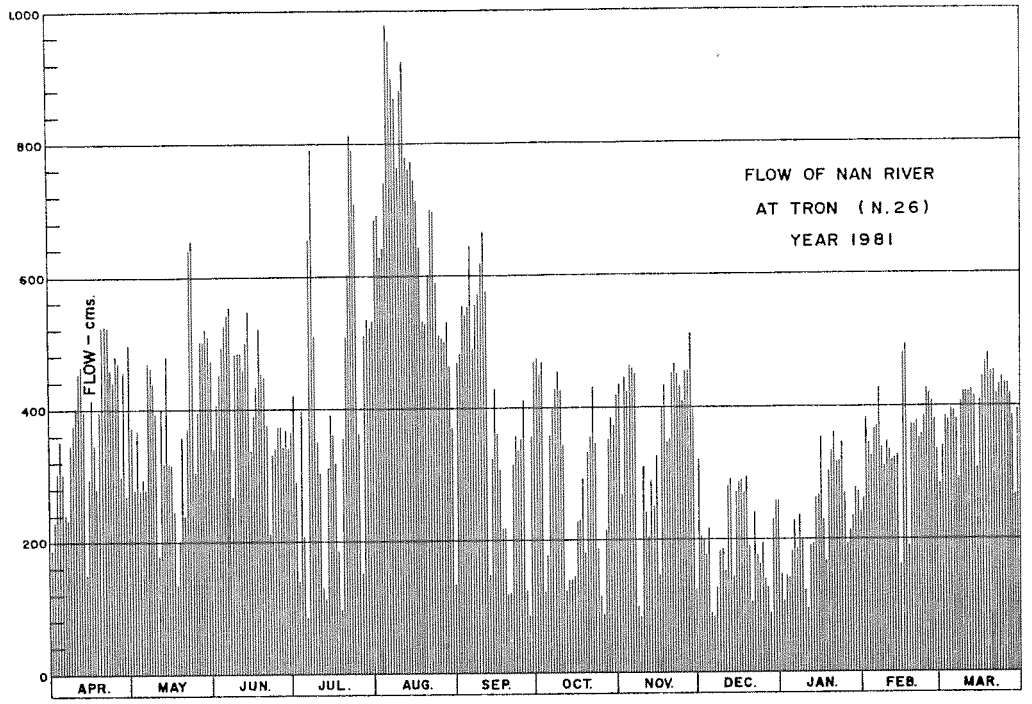
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	51.38	52.53	52.28	52.71	53.95	52.96	53.00	52.79	52.42	51.04	51.85	52.00	
2	51.73	51.98	52.73	51.73	53.99	53.04	52.89	51.92	51.51	50.75	52.52	52.39	
3	52.12	52.46	52.92	51.05	53.71	53.37	52.96	52.84	51.45	51.09	52.32	52.54	
4	52.37	51.96	53.11	52.59	53.78	53.31	50.88	52.75	51.31	51.05	52.26	52.51	
5	52.11	52.05	53.26	50.70	54.32	53.36	51.10	52.94	51.58	51.45	52.46	52.59	
6	51.73	51.96	53.31	50.53	55.08	53.79	52.49	52.91	50.53	51.65	52.49	52.59	
7	51.69	52.96	53.37	53.83	54.98	53.06	52.65	52.86	50.49	51.37	52.75	52.51	
8	52.29	52.92	51.91	54.39	54.78	53.38	52.73	50.71	51.07	51.70	52.29	52.06	
9	52.51	52.86	53.03	52.69	54.67	53.48	52.89	50.49	51.34	51.47	52.15	52.66	
10	52.66	52.42	53.03	52.45	54.29	53.70	52.74	52.14	51.35	50.92	52.35	52.75	
11	52.89	51.33	53.04	52.03	54.74	53.88	51.96	51.76	51.13	50.61	52.27	52.72	
12	52.93	52.61	52.92	51.01	54.89	53.45	50.89	51.49	51.98	51.40	52.19	52.73	
13	52.60	52.20	53.14	50.77	54.34	51.10	51.01	52.03	52.04	51.44	52.23	52.75	
14	51.11	53.01	53.33	52.21	54.29	52.20	51.04	51.79	51.09	51.87	52.25	52.69	
15	52.04	52.19	52.30	52.57	54.32	52.76	51.06	52.23	51.93	51.90	51.16	52.14	
16	52.69	52.17	52.60	52.35	54.19	52.39	51.65	51.11	52.00	52.40	52.82	52.67	
17	52.25	51.60	52.79	52.09	54.05	52.11	51.66	52.59	52.03	51.57	52.89	52.87	
18	51.97	51.00	53.21	50.92	53.56	51.59	52.05	52.78	51.92	51.25	51.40	52.92	
19	52.88	51.49	52.91	50.65	53.27	51.59	51.34	52.36	52.05	52.12	52.49	53.02	
20	53.23	52.40	52.85	52.97	53.25	50.82	52.27	52.38	51.62	52.27	52.48	52.88	
21	53.24	51.73	52.49	53.25	53.65	50.86	52.40	52.85	50.71	52.42	52.51	52.89	
22	53.23	52.53	51.54	53.99	54.03	52.16	52.77	52.95	51.73	52.19	52.38	52.70	
23	52.87	53.75	52.25	54.49	54.01	52.39	52.13	52.90	51.29	52.21	52.44	52.78	
24	52.82	53.82	52.33	54.38	53.49	52.29	51.32	52.77	51.22	52.36	52.49	52.84	
25	53.02	52.13	52.47	53.80	53.17	52.39	50.73	52.66	51.43	52.01	52.77	52.80	
26	52.95	52.87	52.48	51.58	53.14	52.66	50.51	52.89	51.05	51.41	52.70	52.80	
27	52.08	53.11	52.33	51.11	53.12	50.81	51.73	52.90	50.94	51.59	52.66	52.72	
28	52.89	53.13	52.45	53.15	53.26	50.52	52.34	53.17	50.56	51.72	52.52	52.55	
29	51.92	53.21	52.32	53.30	52.97	52.42	52.53	52.36	51.68	51.97		51.89	
30	53.10	53.16	52.49	53.21	52.44	52.96	52.48	50.89	51.85	51.93		52.57	
31		52.93		53.28	50.99		52.71		51.85	51.74		52.69	
MEAN	52.44	52.47	52.71	52.44	53.83	52.49	51.96	52.31	51.46	51.64	52.36	52.62	
MAX	53.24	53.82	53.37	54.49	55.08	53.88	53.00	53.17	52.42	52.42	52.89	53.02	55.08
MIN	51.11	51.00	51.54	50.53	50.99	50.52	50.51	50.49	50.49	50.61	51.16	51.89	50.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 55.13 M (MSL), AT 15.00 HOURS, ON AUG 6, 1981
ZERO GAGE AT BOTTOM ELEVATION 49.30 M (MSL), RIVER BED 49.31 M (MSL)
LEFT BANK ELEVATION 60.20 M (MSL)
RIGHT BANK ELEVATION 58.88 M (MSL), DRAINAGE AREA 17350 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	187.2	382.0	334.4	418.0	681.0	468.0	476.0	434.0	360.0	140.8	260.0	284.0	
2	240.8	280.8	422.0	240.8	689.8	484.0	454.0	271.2	205.6	109.0	380.0	354.2	
3	305.6	368.0	460.0	142.0	628.2	553.4	468.0	444.0	197.0	146.8	341.6	384.0	
4	350.6	277.6	498.1	394.0	643.6	540.2	122.0	426.0	177.4	142.0	330.8	378.0	
5	303.8	293.0	529.6	104.0	770.0	551.2	148.0	464.0	216.8	197.0	368.0	394.0	
6	240.8	277.6	540.2	87.0	976.4	645.8	374.0	458.0	87.0	228.0	374.0	394.0	
7	234.4	468.0	553.4	654.6	948.4	488.0	406.0	448.0	83.0	185.8	426.0	378.0	
8	336.2	460.0	269.6	787.5	892.4	555.6	422.0	105.0	144.4	236.0	336.2	294.8	
9	378.0	448.0	482.0	414.0	861.9	577.6	454.0	83.0	181.6	199.8	311.0	408.0	
10	408.0	360.0	482.0	366.0	762.5	626.0	424.0	309.2	183.0	126.4	347.0	426.0	
11	454.0	180.2	484.0	289.4	881.2	665.6	277.6	245.6	152.2	95.0	332.6	420.0	
12	462.0	398.0	460.0	137.2	923.2	571.0	123.0	202.6	280.8	190.0	318.2	422.0	
13	396.0	320.0	504.4	111.0	775.0	148.0	137.2	289.4	291.2	195.6	325.4	426.0	
14	149.4	478.0	544.6	321.8	762.5	320.0	140.8	250.4	146.8	263.2	329.0	414.0	
15	291.2	318.2	338.0	390.0	770.0	428.0	143.2	325.4	272.8	268.0	156.4	309.2	
16	414.0	314.6	396.0	347.0	737.5	354.2	228.0	149.4	284.0	356.0	440.0	410.0	
17	329.0	220.0	434.0	300.2	703.5	303.8	229.6	394.0	289.4	215.2	454.0	450.0	
18	279.2	136.0	519.1	126.4	595.2	218.4	293.0	432.0	271.2	169.0	190.0	460.0	
19	452.0	202.6	458.0	99.0	531.7	218.4	181.6	348.8	293.0	305.6	374.0	480.0	
20	523.3	356.0	446.0	470.0	527.5	116.0	332.6	352.4	223.2	332.6	372.0	452.0	
21	525.4	240.8	374.0	527.5	615.0	120.0	356.0	446.0	105.0	360.0	378.0	454.0	
22	523.3	382.0	210.4	689.8	698.9	312.8	430.0	466.0	240.8	318.2	352.4	416.0	
23	450.0	637.0	329.0	813.4	694.3	354.2	307.4	456.0	174.6	321.8	364.0	432.0	
24	440.0	652.4	343.4	785.0	579.8	336.2	178.8	430.0	164.8	348.8	374.0	444.0	
25	480.0	307.4	370.0	648.0	510.7	354.2	107.0	408.0	194.2	285.8	430.0	436.0	
26	466.0	450.0	372.0	216.8	504.4	408.0	85.0	454.0	142.0	191.4	416.0	436.0	
27	298.4	498.1	343.4	149.4	500.2	115.0	240.8	456.0	128.8	218.4	408.0	420.0	
28	454.0	502.3	366.0	506.5	529.6	86.0	345.2	510.7	90.0	239.2	380.0	386.0	
29	271.2	519.1	341.6	538.0	470.0	360.0	382.0	348.8	232.8	279.2		266.4	
30	496.0	508.6	374.0	519.1	364.0	468.0	372.0	123.0	260.0	272.8		390.0	
31		462.0		533.8	134.8		418.0		260.0	242.4		414.0	
TOTAL	11139.8	11698.3	12579.2	12127.2	20663.2	11747.6	9056.8	10530.9	6333.4	7179.8	9868.6	12432.6	135357.3 CMSDAY
MEAN	371.3	377.4	419.3	391.2	666.6	391.6	292.2	351.0	204.3	231.6	352.4	401.1	370.8 CMS
MAX	525.4	652.4	553.4	813.4	976.4	665.8	476.0	510.7	360.0	360.0	454.0	480.0	976.4 CMS
MIN	149.4	136.0	210.4	87.0	134.8	86.0	85.0	83.0	83.0	95.0	156.4	266.4	83.0 CMS
RUNOFF	962.48	1010.73	1086.84	1047.79	1785.30	1014.99	782.51	909.87	547.21	620.33	852.65	1074.18	11694.86 MCM

MOMENTARY PEAK 990.40 CMS; AT 55.13 M (MSL), AT 18:00 HOURS, ON AUG 6, 1981

RUNOFF YIELD 21.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 57.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 12 METERS FROM THE TOP 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

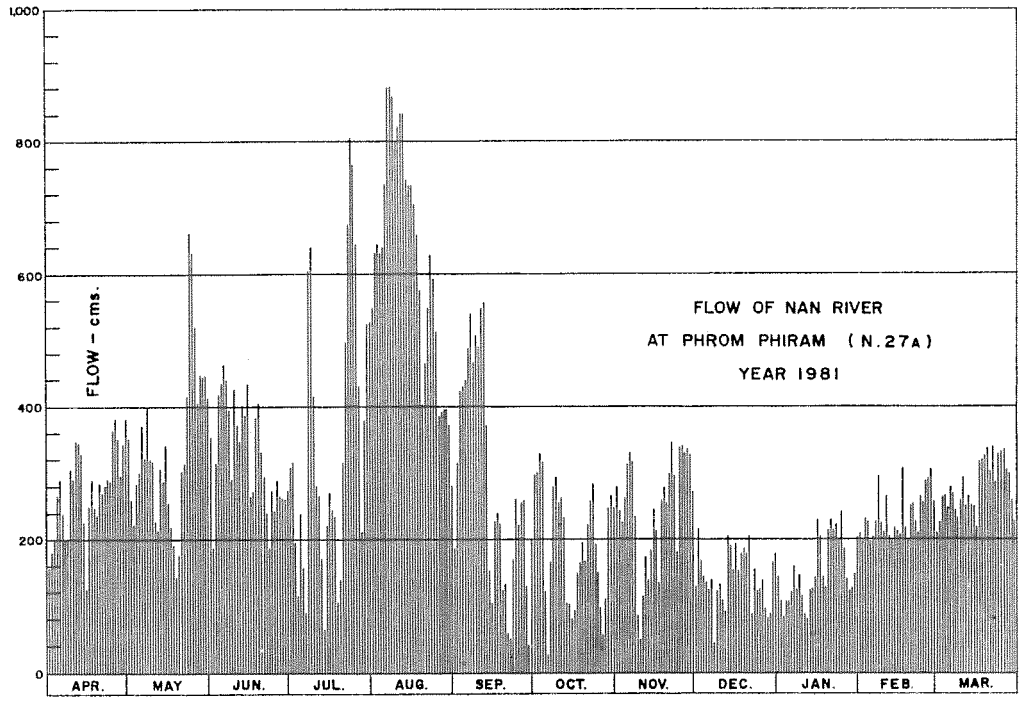
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.40	4.13	4.09	3.79	5.64	2.68	3.70	3.55	2.09	2.28	2.93	2.94	
2	2.74	3.34	2.69	3.86	6.22	3.95	3.74	3.27	2.96	1.85	2.81	3.09	
3	2.86	3.01	4.05	2.69	6.32	4.69	3.98	3.07	2.51	1.55	3.15	3.42	
4	3.45	3.59	4.68	1.92	6.19	4.78	3.84	3.58	2.25	1.86	3.07	3.44	
5	3.64	3.76	4.81	3.20	6.47	4.86	1.89	3.84	2.18	1.86	2.73	3.31	
6	3.26	4.28	5.03	2.26	7.05	5.21	0.81	3.97	2.06	2.02	2.94	3.56	
7	2.83	3.93	4.84	1.62	7.94	5.59	2.95	3.88	2.20	2.41	3.16	3.45	
8	2.84	4.54	4.52	6.04	7.95	5.05	3.53	3.18	1.06	2.06	3.69	3.24	
9	3.77	3.92	3.65	6.30	7.80	5.33	3.69	1.45	2.04	2.29	3.13	3.07	
10	3.65	3.88	4.74	4.43	7.35	5.22	3.34	1.13	2.12	1.90	2.98	3.46	
11	4.13	3.10	4.29	3.55	7.57	5.63	3.40	2.23	1.81	1.61	3.46	3.68	
12	4.12	2.97	4.12	3.40	7.69	5.72	3.10	2.54	1.67	1.50	2.87	3.29	
13	3.97	3.79	4.57	2.26	7.68	4.23	1.82	2.22	2.86	2.04	2.87	3.44	
14	2.93	3.61	4.46	1.25	6.98	2.40	1.80	2.73	2.69	2.10	2.99	3.31	
15	2.04	4.08	4.80	3.16	6.96	1.82	1.47	3.22	2.37	2.34	2.97	3.30	
16	3.26	3.42	3.41	3.48	6.95	3.01	1.67	2.75	2.76	3.13	2.92	2.96	
17	3.63	2.96	3.50	3.24	6.68	3.21	2.33	2.13	2.35	2.87	3.79	3.88	
18	3.28	2.74	4.37	3.13	6.24	3.01	2.50	3.37	2.63	2.29	3.01	3.90	
19	3.19	2.26	4.57	2.07	5.20	2.05	2.78	3.54	2.72	2.10	2.86	3.96	
20	3.60	2.63	4.02	2.38	4.54	2.12	2.50	3.34	2.64	2.97	3.31	4.04	
21	3.47	3.72	3.74	4.65	5.02	1.25	3.03	3.74	2.85	3.11	3.33	3.76	
22	3.58	3.83	3.35	5.45	5.76	1.18	3.40	4.11	1.62	2.97	3.10	4.06	
23	3.63	4.76	2.71	6.84	6.23	2.40	3.60	3.53	2.36	3.06	2.95	3.62	
24	3.62	6.45	3.50	7.44	5.92	3.38	2.74	2.67	2.03	2.86	3.44	3.97	
25	4.24	6.23	3.26	6.72	5.32	3.07	2.26	4.06	2.06	3.22	3.35	4.01	
26	4.37	5.06	3.64	5.93	4.42	3.34	1.40	4.08	2.16	2.76	3.62	4.02	
27	4.03	4.59	3.42	3.47	4.46	3.37	1.06	3.98	1.78	2.25	3.67	3.80	
28	3.60	4.91	3.40	2.96	4.50	1.70	2.43	4.03	1.54	2.01	3.75	3.72	
29	4.24	4.89	3.40	4.61	4.51	0.96	3.27	3.94	1.67	2.16		3.36	
30	4.42	4.90	3.54	5.46	4.33	2.71	3.46	3.38	2.45	2.59		3.12	
31		4.60		5.49	3.78		3.30		2.63	2.85		3.46	
MEAN	3.49	4.00	3.97	3.97	6.12	3.46	2.74	3.22	2.23	2.35	3.17	3.54	
MAX	4.42	6.45	5.03	7.44	7.95	5.72	3.98	4.11	2.96	3.22	3.79	4.06	7.95
MIN	2.04	2.26	2.69	1.25	3.78	0.96	0.81	1.13	1.06	1.50	2.73	2.94	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.19 M (A.D.), AT 8.19 HOURS, ON AUG 7, 1981
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D.), RIVER BED M (A.D.)
LEFT BANK ELEVATION — 10.53 M (A.D.)
RIGHT BANK ELEVATION — 10.17 M (A.D.), DRAINAGE AREA 19540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	156.5	347.6	342.8	306.8	545.9	183.5	296.0	278.2	128.1	145.2	209.6	210.7	
2	189.7	254.1	184.5	315.2	626.8	326.0	300.8	246.0	212.8	106.7	197.0	226.4	
3	202.3	218.0	338.0	184.5	640.8	418.7	329.6	224.3	166.9	82.0	232.7	263.3	
4	266.7	282.8	417.4	112.8	622.6	430.4	312.8	281.7	142.5	107.6	224.3	265.6	
5	288.8	303.2	434.3	238.0	661.8	440.8	110.1	312.8	136.2	107.6	188.6	250.6	
6	244.9	365.6	463.5	143.4	745.7	487.8	26.7	328.4	125.4	121.8	210.7	279.4	
7	199.1	323.6	438.2	87.6	879.0	539.1	211.7	317.6	138.0	157.4	233.8	266.7	
8	200.2	399.2	396.6	601.6	880.5	466.2	275.9	235.9	44.2	125.4	294.8	242.6	
9	304.4	322.4	290.0	638.0	858.0	504.0	294.8	74.0	123.6	146.1	230.6	224.3	
10	290.0	317.6	425.2	384.9	790.5	489.2	254.1	49.1	130.8	111.0	214.9	267.9	
11	347.6	227.5	366.8	278.2	823.5	544.5	261.0	140.7	103.3	86.8	267.9	293.6	
12	346.4	213.8	346.4	261.0	841.5	556.8	227.5	169.8	91.6	78.0	203.3	248.3	
13	328.4	306.8	403.1	143.4	840.0	359.6	104.2	139.8	202.3	123.6	203.3	265.6	
14	209.6	285.2	388.8	58.0	735.5	156.5	102.5	188.6	184.5	127.0	215.9	250.6	
15	123.6	341.6	433.0	233.8	732.6	104.2	75.6	240.3	153.6	150.8	213.8	249.5	
16	244.9	263.3	262.1	270.2	731.1	218.0	91.6	190.7	191.8	230.6	208.6	212.8	
17	287.6	212.8	272.5	242.6	691.7	239.1	149.8	131.7	151.7	203.3	306.8	317.6	
18	247.2	189.7	377.1	230.6	629.6	219.0	166.0	257.5	173.5	146.1	213.0	320.0	
19	236.9	143.4	403.1	126.3	486.5	124.5	193.9	277.1	187.6	129.0	202.3	327.2	
20	284.0	178.5	334.4	154.6	399.2	130.8	166.0	254.1	179.5	213.8	250.6	336.8	
21	269.0	298.4	300.8	413.5	462.2	58.0	220.1	300.8	201.2	228.5	252.9	303.2	
22	281.7	311.6	255.2	520.2	562.4	52.6	261.0	345.2	87.6	213.8	227.5	339.2	
23	287.6	427.8	186.5	715.0	628.2	156.5	284.0	275.9	152.7	223.3	211.7	286.4	
24	286.4	659.0	272.5	804.0	584.8	258.7	189.7	182.5	122.7	202.3	265.6	328.4	
25	360.8	628.2	244.9	697.5	502.7	224.3	143.4	339.2	125.4	240.3	255.2	333.2	
26	377.1	467.6	288.8	586.2	383.6	254.1	70.0	341.6	134.4	191.8	286.4	334.4	
27	335.6	405.7	263.3	269.0	388.8	257.5	44.2	329.6	100.8	142.5	292.4	308.0	
28	284.0	447.3	261.0	212.8	394.0	94.0	159.3	335.6	81.2	120.9	302.0	298.4	
29	360.8	444.7	261.0	408.3	395.3	37.2	246.0	324.8	91.6	134.4		256.4	
30	383.6	446.0	277.1	521.6	371.9	186.5	267.9	258.7	161.2	174.5		229.6	
31		407.0		525.6	305.6		249.5		178.5	201.2		267.9	
TOTAL	8225.4	10440.0	9928.9	10685.2	19142.3	8517.1	6085.7	7372.2	4410.2	4775.3	6621.2	8604.6	104808.0 CMSDAY
MEAN	274.2	336.8	331.0	344.7	617.5	283.9	196.3	245.7	142.3	154.0	236.5	277.6	287.1 CMS
MAX	383.6	659.0	463.5	804.0	880.5	556.8	329.6	345.2	212.8	240.3	306.8	339.2	880.5 CMS
MIN	123.6	143.4	184.5	58.0	305.6	37.2	26.7	49.1	44.2	78.0	188.6	210.7	26.7 CMS
RUNOFF	710.67	902.02	857.86	923.20	1653.89	735.88	525.80	636.96	381.04	412.59	572.07	743.44	9055.41 MCM

MOMENTARY PEAK 916.50 CMS, AT 8.19 M (A.D), AT 8.19 HOURS, ON AUG 7, 1981

RUNOFF YIELD 14.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 46.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ABOUT 20 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

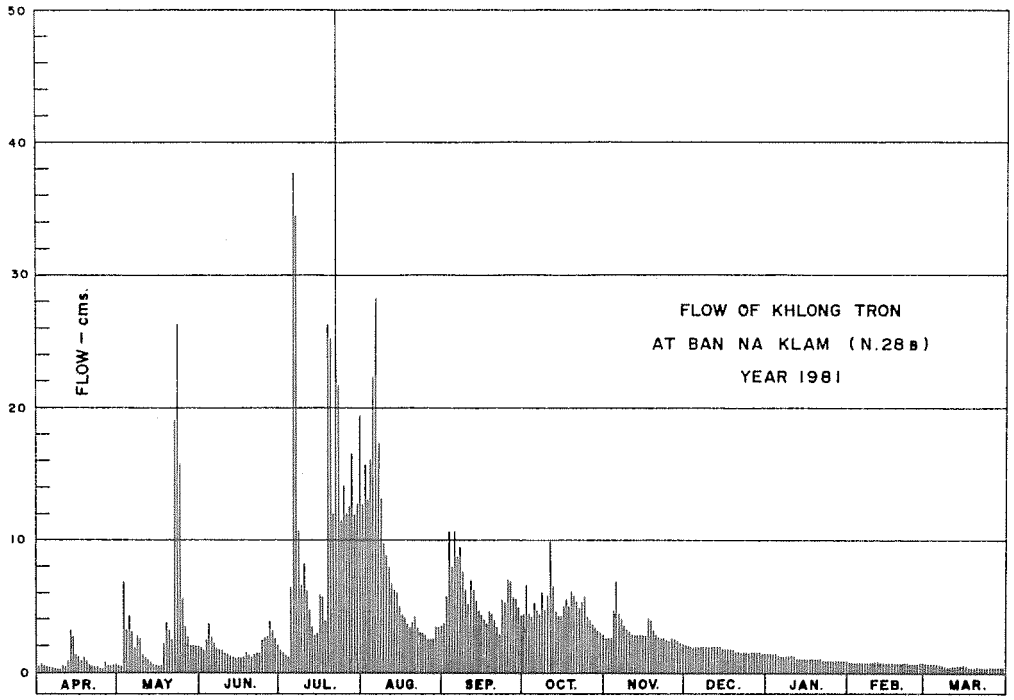
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.45	1.45	1.57	1.56	1.88	1.55	1.58	1.50	1.47	1.43	1.39	1.37	
2	1.47	1.44	1.56	1.54	1.96	1.64	1.67	1.50	1.47	1.43	1.39	1.37	
3	1.45	1.84	1.63	1.53	1.89	1.81	1.59	1.50	1.46	1.43	1.39	1.37	
4	1.44	1.66	1.69	1.52	1.97	1.72	1.57	1.60	1.46	1.43	1.39	1.37	
5	1.44	1.71	1.62	1.57	2.14	1.81	1.62	1.68	1.46	1.42	1.39	1.37	
6	1.43	1.64	1.58	2.50	2.25	1.75	1.59	1.59	1.46	1.42	1.39	1.36	
7	1.43	1.57	1.56	2.43	2.04	1.77	1.58	1.57	1.46	1.42	1.39	1.36	
8	1.43	1.63	1.56	1.98	1.91	1.71	1.65	1.54	1.46	1.42	1.39	1.35	
9	1.42	1.62	1.55	1.83	1.81	1.65	1.60	1.53	1.46	1.42	1.39	1.35	
10	1.45	1.54	1.54	1.90	1.76	1.61	1.65	1.52	1.46	1.42	1.39	1.35	
11	1.44	1.51	1.53	1.79	1.73	1.69	1.79	1.51	1.46	1.42	1.39	1.35	
12	1.43	1.50	1.52	1.73	1.69	1.67	1.65	1.51	1.47	1.41	1.39	1.35	
13	1.66	1.48	1.52	1.67	1.66	1.62	1.61	1.51	1.46	1.41	1.38	1.35	
14	1.63	1.46	1.51	1.63	1.65	1.60	1.58	1.51	1.46	1.41	1.38	1.35	
15	1.53	1.46	1.52	1.64	1.61	1.57	1.57	1.51	1.45	1.41	1.38	1.35	
16	1.51	1.45	1.52	1.80	1.58	1.56	1.60	1.51	1.45	1.41	1.38	1.35	
17	1.50	1.46	1.52	1.79	1.57	1.55	1.63	1.57	1.45	1.41	1.38	1.34	
18	1.51	1.57	1.54	1.70	1.55	1.59	1.61	1.56	1.45	1.41	1.38	1.34	
19	1.49	1.69	1.53	2.34	1.54	1.58	1.65	1.52	1.45	1.41	1.38	1.34	
20	1.46	1.64	1.51	2.32	1.55	1.55	1.64	1.54	1.44	1.41	1.38	1.34	
21	1.45	1.61	1.53	2.03	1.57	1.53	1.62	1.50	1.44	1.41	1.38	1.34	
22	1.44	2.21	1.54	2.62	1.55	1.51	1.60	1.50	1.44	1.40	1.38	1.34	
23	1.44	2.34	1.54	2.06	1.52	1.63	1.62	1.50	1.44	1.40	1.37	1.34	
24	1.43	2.10	1.61	1.84	1.52	1.62	1.63	1.49	1.44	1.40	1.37	1.34	
25	1.43	1.80	1.63	1.92	1.51	1.69	1.57	1.49	1.44	1.40	1.37	1.34	
26	1.49	1.68	1.63	1.85	1.49	1.68	1.56	1.50	1.44	1.40	1.37	1.34	
27	1.46	1.63	1.69	1.87	1.49	1.63	1.54	1.49	1.44	1.40	1.37	1.34	
28	1.46	1.59	1.65	1.98	1.50	1.63	1.53	1.49	1.44	1.40	1.37	1.34	
29	1.46	1.58	1.61	1.85	1.54	1.61	1.52	1.48	1.44	1.40		1.34	
30	1.47	1.58	1.58	1.87	1.54	1.58	1.52	1.48	1.43	1.40		1.34	
31		1.58		2.05	1.54		1.51		1.43	1.40		1.34	
MEAN	1.47	1.65	1.57	1.89	1.69	1.64	1.60	1.52	1.45	1.41	1.38	1.35	
MAX	1.66	2.34	1.69	2.62	2.25	1.81	1.79	1.68	1.47	1.43	1.39	1.37	2.62
MIN	1.42	1.44	1.51	1.52	1.49	1.51	1.51	1.48	1.43	1.40	1.37	1.34	1.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.50 M (A.D), AT 3.50 HOURS, ON JUL 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 3.72 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.45	1.88	1.74	12.77	3.70	4.36	2.60	2.09	1.41	0.81	0.63	
2	0.63	0.36	1.74	1.46	15.68	5.82	6.58	2.60	2.09	1.41	0.81	0.63	
3	0.45	6.72	2.78	1.32	13.08	10.56	4.58	2.60	1.92	1.41	0.81	0.63	
4	0.36	3.26	3.74	1.18	16.06	7.93	4.14	4.80	1.92	1.41	0.81	0.63	
5	0.36	4.09	2.62	1.88	23.05	10.56	5.31	6.84	1.92	1.24	0.81	0.63	
6	0.27	2.94	2.02	37.60	28.23	8.80	4.58	4.58	1.92	1.24	0.81	0.54	
7	0.27	1.88	1.74	32.14	18.82	9.38	4.36	4.14	1.92	1.24	0.81	0.54	
8	0.27	2.78	1.74	10.42	13.78	7.64	6.07	3.48	1.92	1.24	0.81	0.45	
9	0.18	2.62	1.60	6.49	10.56	6.07	4.80	3.26	1.92	1.24	0.81	0.45	
10	0.45	1.46	1.46	8.10	9.09	5.05	6.07	3.04	1.92	1.24	0.81	0.45	
11	0.36	1.04	1.32	5.61	8.22	7.09	9.96	2.82	1.92	1.24	0.81	0.45	
12	0.27	0.90	1.18	4.47	7.09	6.58	6.07	2.82	2.09	1.07	0.81	0.45	
13	3.26	0.72	1.18	3.42	6.33	5.31	5.05	2.82	1.92	1.07	0.72	0.45	
14	2.78	0.54	1.04	2.78	6.07	4.80	4.36	2.82	1.92	1.07	0.72	0.45	
15	1.32	0.54	1.18	2.94	5.05	4.14	4.14	2.82	1.75	1.07	0.72	0.45	
16	1.04	0.45	1.18	5.80	4.36	3.92	4.80	2.82	1.75	1.07	0.72	0.45	
17	0.90	0.54	1.18	5.61	4.14	3.70	5.56	4.14	1.75	1.07	0.72	0.36	
18	1.04	1.88	1.46	3.90	3.70	4.58	5.05	3.92	1.75	1.07	0.72	0.36	
19	0.81	3.74	1.32	26.14	3.48	4.36	6.07	3.04	1.75	1.07	0.72	0.36	
20	0.54	2.94	1.04	24.92	3.70	3.70	5.82	2.82	1.58	1.07	0.72	0.36	
21	0.45	2.46	1.32	12.02	4.14	3.26	5.31	2.60	1.58	1.07	0.72	0.36	
22	0.36	19.20	1.46	50.18	3.70	2.82	4.80	2.60	1.58	0.90	0.72	0.36	
23	0.36	26.14	1.46	19.63	3.04	5.56	5.31	2.60	1.58	0.90	0.63	0.36	
24	0.27	14.40	2.46	11.51	3.04	5.31	5.56	2.43	1.58	0.90	0.63	0.36	
25	0.27	5.80	2.78	14.16	2.82	7.09	4.14	2.43	1.58	0.90	0.63	0.36	
26	0.81	3.58	2.78	11.82	2.43	6.84	3.92	2.60	1.58	0.90	0.63	0.36	
27	0.54	2.78	3.74	12.45	2.43	5.56	3.48	2.43	1.58	0.90	0.63	0.36	
28	0.54	2.16	3.10	16.44	2.60	5.56	3.26	2.43	1.58	0.90	0.63	0.36	
29	0.54	2.02	2.46	11.82	3.48	5.05	3.04	2.26	1.58	0.90		0.36	
30	0.63	2.02	2.02	12.45	3.48	4.36	3.04	2.26	1.41	0.90		0.36	
31		2.02		19.22	3.48		2.82		1.41	0.90		0.36	
TOTAL	20.78	122.43	56.98	379.62	247.90	175.10	152.41	93.42	54.76	34.02	20.70	13.68	1371.80 CMSDAY
MEAN	0.69	3.95	1.90	12.25	8.00	5.84	4.92	3.11	1.77	1.10	0.74	0.44	3.76 CMS
MAX	3.26	26.14	3.74	50.18	28.23	10.56	9.96	6.84	2.09	1.41	0.81	0.63	50.18 CMS
MIN	0.18	0.36	1.04	1.18	2.43	2.82	2.82	2.26	1.41	0.90	0.63	0.36	0.18 CMS
RUNOFF	1.795	10.578	4.923	32.799	21.419	15.129	13.168	8.071	4.731	2.939	1.788	1.182	118.523 MCM

MOMENTARY PEAK 149.75 CMS, AT 3.50 M (A.D), AT 3.50 HOURS, ON JUL 22, 1981
RUNOFF YIELD 10.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 409.15 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

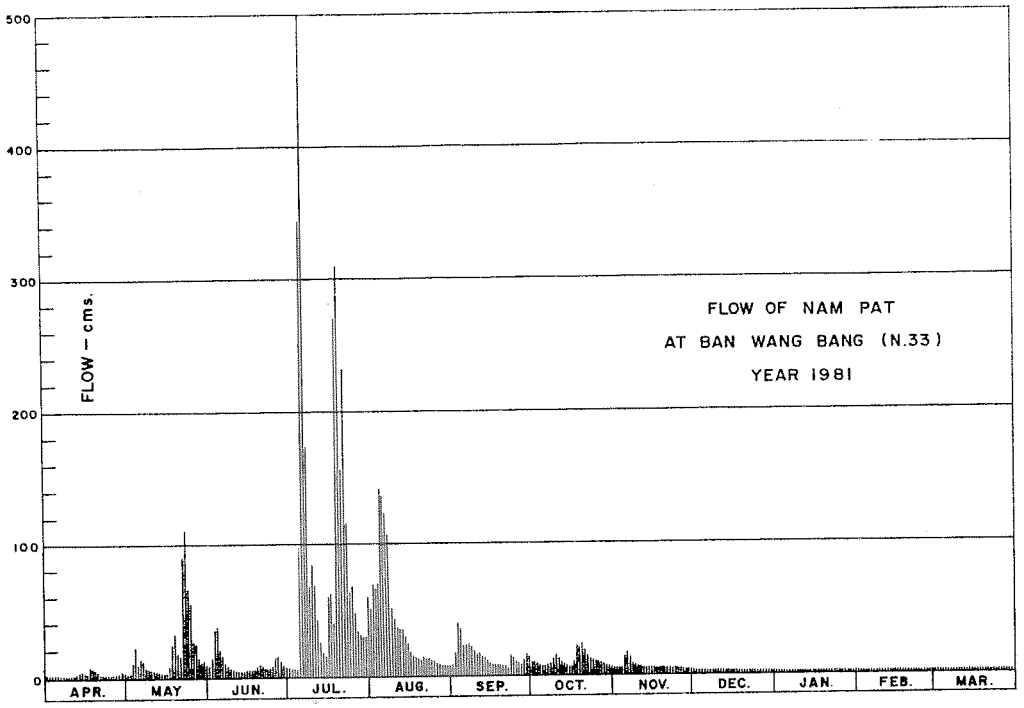
NAM PAT AT BAN WANG BANG, UTTARADIT (N.33)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 123 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	79.27	79.51	79.75	79.69	80.64	79.81	79.86	79.68	79.54	79.40	79.31	79.24	
2	79.27	79.46	80.01	79.66	80.85	79.99	79.87	79.66	79.54	79.40	79.31	79.24	
3	79.26	79.81	80.40	79.63	80.82	80.48	79.81	79.66	79.52	79.40	79.30	79.24	
4	79.26	80.18	80.45	79.62	80.89	80.40	79.77	79.67	79.52	79.40	79.31	79.24	
5	79.26	79.82	80.21	79.67	81.49	80.21	79.75	80.02	79.51	79.39	79.30	79.23	
6	79.26	79.98	80.02	82.09	81.41	80.21	79.76	80.09	79.51	79.39	79.30	79.23	
7	79.26	79.93	79.86	83.59	81.22	80.23	79.76	79.92	79.50	79.39	79.30	79.22	
8	79.26	79.71	79.78	81.80	80.96	80.17	79.80	79.84	79.49	79.38	79.29	79.22	
9	79.26	79.62	79.72	80.84	80.66	80.15	79.97	79.76	79.48	79.38	79.28	79.22	
10	79.27	79.61	79.67	81.01	80.50	80.06	80.03	79.73	79.48	79.38	79.28	79.23	
11	79.26	79.62	79.65	80.75	80.41	80.07	79.91	79.71	79.48	79.37	79.28	79.23	
12	79.26	79.56	79.64	80.43	80.40	79.99	79.84	79.69	79.48	79.38	79.30	79.23	
13	79.56	79.52	79.60	80.24	80.39	79.98	79.77	79.68	79.47	79.37	79.30	79.22	
14	79.57	79.49	79.59	80.11	80.28	79.92	79.74	79.67	79.46	79.36	79.30	79.22	
15	79.51	79.47	79.57	80.02	80.16	79.84	79.72	79.67	79.45	79.36	79.28	79.22	
16	79.45	79.45	79.62	80.77	80.09	79.80	79.76	79.67	79.44	79.36	79.28	79.21	
17	79.80	79.76	79.60	80.78	80.03	79.78	79.86	79.67	79.43	79.35	79.27	79.21	
18	79.76	80.22	79.62	80.52	79.98	79.77	80.19	79.67	79.43	79.34	79.26	79.20	
19	79.65	80.37	79.71	82.31	79.94	79.78	80.18	79.67	79.43	79.34	79.27	79.21	
20	79.51	80.09	79.85	82.52	79.92	79.76	80.23	79.66	79.42	79.35	79.27	79.21	
21	79.46	80.00	79.77	81.60	80.01	79.73	80.09	79.64	79.42	79.35	79.26	79.21	
22	79.43	81.04	79.69	82.09	79.94	79.71	79.98	79.62	79.40	79.34	79.26	79.21	
23	79.39	81.24	79.66	81.22	79.92	79.99	79.94	79.61	79.40	79.34	79.26	79.21	
24	79.38	80.83	79.68	80.80	79.89	79.97	79.92	79.61	79.40	79.34	79.26	79.21	
25	79.42	80.62	79.84	80.83	79.85	79.86	79.89	79.60	79.40	79.33	79.26	79.23	
26	79.43	80.28	80.01	80.61	79.82	79.85	79.83	79.59	79.40	79.33	79.25	79.22	
27	79.40	80.24	80.03	80.42	79.80	79.81	79.78	79.59	79.40	79.34	79.25	79.22	
28	79.51	79.98	79.94	80.37	79.79	79.89	79.76	79.57	79.40	79.33	79.25	79.22	
29	79.61	79.86	79.80	80.31	79.79	80.04	79.74	79.56	79.40	79.32		79.21	
30	79.56	79.93	79.74	80.32	79.79	79.95	79.72	79.55	79.40	79.32		79.21	
31		79.84		80.75	79.77		79.70		79.40	79.31		79.21	
MEAN	79.42	79.97	79.82	80.82	80.30	79.97	79.87	79.69	79.45	79.36	79.28	79.22	
MAX	79.80	81.24	80.45	83.59	81.49	80.48	80.23	80.09	79.54	79.40	79.31	79.24	83.59
MIN	79.26	79.45	79.57	79.62	79.77	79.71	79.70	79.55	79.40	79.31	79.25	79.20	79.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 84.10 M (MSL), AT 9.00 HOURS, ON AUG 19, 1981
ZERO GAGE AT BOTTOM ELEVATION 79.00 M (MSL), RIVER BED 78.90 M (MSL)
LEFT BANK ELEVATION 89.03 M (MSL)
RIGHT BANK ELEVATION 90.25 M (MSL), DRAINAGE AREA 2463 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	2.65	6.50	5.35	50.20	7.80	9.30	5.20	3.10	1.00	0.62	0.32	
2	0.45	1.90	13.90	4.90	68.25	13.20	9.60	4.90	3.10	1.00	0.62	0.32	
3	0.40	7.80	33.50	4.45	65.40	38.70	7.80	4.90	2.80	1.00	0.57	0.32	
4	0.40	21.10	36.75	4.30	72.05	33.50	6.90	5.05	2.80	1.00	0.62	0.32	
5	0.40	8.10	22.57	5.05	140.65	22.57	6.50	14.30	2.65	0.96	0.57	0.28	
6	0.40	12.90	14.30	231.10	129.85	22.57	6.70	17.10	2.65	0.96	0.57	0.28	
7	0.40	11.40	9.30	533.75	107.30	23.72	6.70	11.10	2.50	0.96	0.57	0.23	
8	0.40	5.70	7.10	183.50	79.00	20.65	7.50	8.70	2.35	0.91	0.53	0.23	
9	0.40	4.30	5.90	67.30	51.80	19.75	12.60	6.70	2.20	0.91	0.49	0.23	
10	0.45	4.15	5.05	84.05	40.00	15.90	14.70	6.10	2.20	0.91	0.49	0.28	
11	0.40	4.30	4.75	59.25	34.15	16.30	10.80	5.70	2.20	0.87	0.49	0.28	
12	0.40	3.40	4.60	35.45	33.50	13.20	8.70	5.35	2.20	0.91	0.57	0.28	
13	3.40	2.80	4.00	24.30	32.93	12.90	6.90	5.20	2.05	0.87	0.57	0.23	
14	3.55	2.35	3.85	17.95	26.60	11.10	6.30	5.05	1.90	0.83	0.57	0.23	
15	2.65	2.05	3.55	14.30	20.20	8.70	5.90	5.05	1.75	0.83	0.49	0.23	
16	1.75	1.75	4.30	60.95	17.10	7.50	6.70	5.05	1.60	0.83	0.49	0.19	
17	7.50	6.70	4.00	61.80	14.70	7.10	9.30	5.05	1.45	0.79	0.45	0.19	
18	6.70	23.15	4.30	41.40	12.90	6.90	21.55	5.05	1.45	0.75	0.40	0.15	
19	4.75	31.78	5.70	269.30	11.70	7.10	21.10	5.05	1.45	0.75	0.45	0.19	
20	2.65	17.10	9.00	308.30	11.10	6.70	23.72	4.90	1.30	0.70	0.45	0.19	
21	1.90	13.50	6.90	155.50	13.90	6.10	17.10	4.60	1.30	0.79	0.40	0.19	
22	1.45	87.20	5.35	231.10	11.70	5.70	12.90	4.30	1.00	0.75	0.40	0.19	
23	0.96	109.60	4.90	107.30	11.10	13.20	11.70	4.15	1.00	0.75	0.40	0.19	
24	0.91	66.35	5.20	63.50	10.20	12.60	11.10	4.15	1.00	0.75	0.40	0.19	
25	1.30	48.60	8.70	66.35	9.00	9.30	10.20	4.00	1.00	0.70	0.40	0.28	
26	1.45	26.60	13.90	47.80	8.10	9.00	8.40	3.85	1.00	0.70	0.36	0.23	
27	1.00	24.30	14.70	34.80	7.50	7.80	7.10	3.85	1.00	0.75	0.36	0.23	
28	2.65	12.90	11.70	31.78	7.30	10.20	6.70	3.55	1.00	0.70	0.36	0.23	
29	4.15	9.30	7.50	28.33	7.30	15.10	6.30	3.40	1.00	0.66		0.19	
30	3.40	11.40	6.30	28.90	7.30	12.00	5.90	3.25	1.00	0.66		0.19	
31		8.70		59.25	6.90		5.50		1.00	0.62		0.19	
TOTAL	57.07	593.83	288.07	2871.36	1119.68	416.86	312.17	174.60	55.00	25.66	13.66	7.27	5935.22 CMSDAY
MEAN	1.90	19.16	9.60	92.62	36.12	13.90	10.07	5.82	1.77	0.83	0.49	0.23	16.26 CMS
MAX	7.50	109.60	36.75	533.75	140.65	38.70	23.72	17.10	3.10	1.00	0.62	0.32	533.75 CMS
MIN	0.40	1.75	3.55	4.30	6.90	5.70	5.50	3.25	1.00	0.62	0.36	0.15	0.15 CMS
RUNOFF	4.931	51.307	24.889	248.085	96.740	36.017	26.971	15.085	4.752	2.217	1.180	0.628	512.803 MCM

MOMENTARY PEAK 650.50 CMS, AT 84.10 M (MSL), AT 9.00 HOURS, ON AUG 19, 1981

RUNOFF YIELD 6.60 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 264.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ABOUT 25 KILOMETERS DOWNSTREAM FROM AMPHOE SA OFFICE, 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 124 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

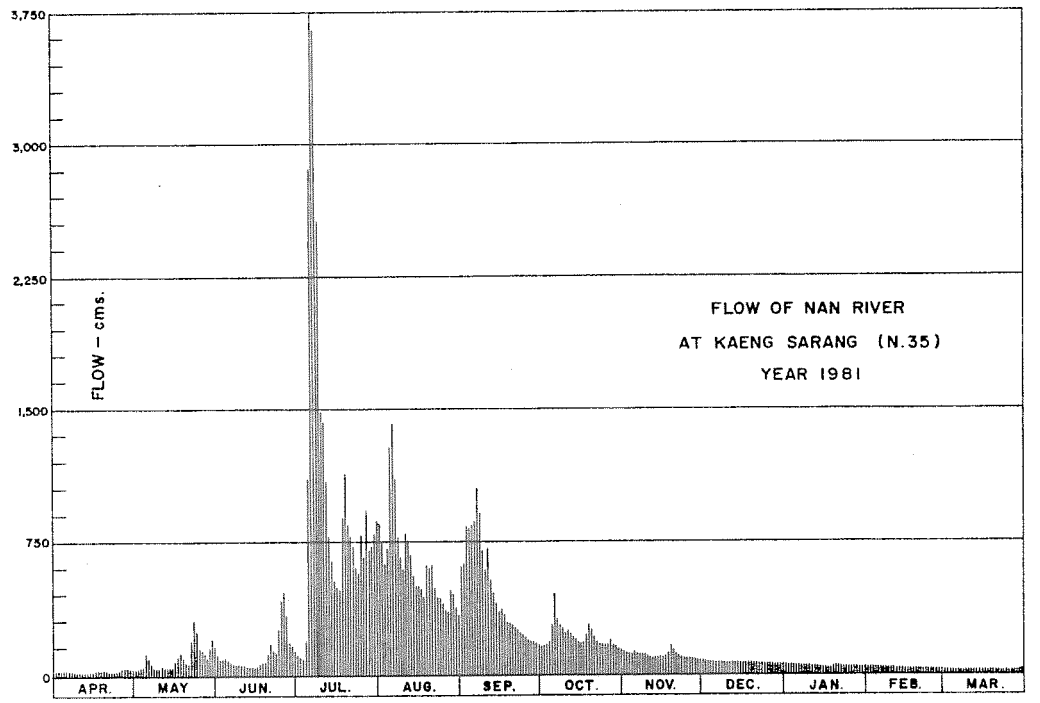
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.77	0.86	1.53	1.59	4.84	4.02	1.88	1.70	1.33	1.12	1.00	0.88	
2	0.80	0.88	1.35	1.51	4.44	4.11	1.88	1.67	1.31	1.11	0.99	0.88	
3	0.82	0.95	1.42	1.42	4.09	4.84	1.97	1.64	1.29	1.11	0.99	0.88	
4	0.79	1.00	1.45	1.44	4.47	4.80	2.09	1.62	1.29	1.11	0.98	0.88	
5	0.78	1.63	1.34	3.84	6.15	4.89	2.55	1.70	1.29	1.10	0.98	0.88	
6	0.77	1.36	1.25	10.77	6.49	4.93	3.43	1.62	1.28	1.10	0.98	0.87	
7	0.77	1.15	1.18	13.52	5.26	5.48	2.67	1.58	1.27	1.09	0.97	0.87	
8	0.76	1.02	1.15	11.87	4.69	5.10	2.59	1.59	1.26	1.09	0.97	0.87	
9	0.75	0.99	1.17	8.63	4.26	4.39	2.46	1.56	1.25	1.09	0.96	0.87	
10	0.75	0.99	1.17	6.77	3.96	3.98	2.31	1.55	1.25	1.09	0.95	0.86	
11	0.75	1.09	1.12	6.58	4.70	4.39	2.44	1.52	1.25	1.08	0.95	0.86	
12	0.75	1.04	1.09	5.39	4.54	3.70	2.30	1.50	1.24	1.08	0.94	0.85	
13	0.76	0.96	1.07	4.53	4.16	3.39	2.19	1.48	1.24	1.07	0.94	0.85	
14	0.76	0.97	1.06	4.11	3.72	3.14	2.15	1.49	1.24	1.07	0.94	0.85	
15	0.78	1.03	1.05	3.71	3.54	2.96	2.08	1.51	1.23	1.06	0.94	0.85	
16	0.79	1.31	1.07	3.58	3.56	3.01	1.96	1.53	1.24	1.06	0.94	0.84	
17	0.81	1.48	1.19	3.49	3.46	2.84	2.07	1.51	1.23	1.06	0.94	0.84	
18	0.84	1.64	1.24	4.56	3.31	2.67	2.36	1.71	1.21	1.05	0.94	0.84	
19	0.87	1.47	1.23	5.78	4.05	2.54	2.57	1.93	1.20	1.05	0.93	0.84	
20	0.91	1.27	1.58	4.93	4.00	2.54	2.39	1.67	1.19	1.10	0.93	0.83	
21	0.85	1.17	2.02	4.66	4.05	2.48	2.15	1.55	1.18	1.09	0.93	0.83	
22	0.83	2.02	1.73	4.45	3.52	2.37	2.05	1.50	1.17	1.07	0.92	0.83	
23	0.82	2.69	1.69	4.04	3.28	2.29	2.01	1.46	1.16	1.05	0.91	0.83	
24	0.84	2.39	2.34	3.86	3.30	2.21	1.96	1.45	1.15	1.04	0.91	0.83	
25	0.83	1.81	3.23	4.68	3.14	2.14	1.96	1.44	1.15	1.04	0.90	0.83	
26	0.94	1.78	3.48	4.27	2.95	2.08	1.96	1.42	1.15	1.03	0.90	0.83	
27	1.00	1.64	2.68	5.13	2.93	2.06	2.11	1.40	1.15	1.02	0.89	0.82	
28	0.98	1.44	2.07	4.36	3.48	2.04	1.92	1.38	1.14	1.02	0.89	0.87	
29	0.95	1.83	1.89	4.46	3.38	1.97	1.82	1.36	1.13	1.01		0.88	
30	0.91	2.19	1.70	4.69	2.98	1.89	1.76	1.34	1.13	1.01		0.96	
31		1.97		4.93	2.88		1.74		1.12	1.00		1.00	
MEAN	0.82	1.42	1.58	5.08	3.99	3.31	2.19	1.55	1.22	1.07	0.94	0.86	
MAX	1.00	2.69	3.48	13.52	6.49	5.48	3.43	1.93	1.33	1.12	1.00	1.00	13.52
MIN	0.75	0.86	1.05	1.42	2.88	1.89	1.74	1.34	1.12	1.00	0.89	0.82	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 13.56 M (A.D), AT 12.00 HOURS, ON JUL 7, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.47 M (A.D)

LEFT BANK ELEVATION 14.14 M (A.D)

RIGHT BANK ELEVATION 14.25 M (A.D), DRAINAGE AREA 10335 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.3	23.4	103.2	111.6	835.4	605.2	155.8	128.0	76.6	51.4	37.0	25.2	
2	18.0	25.2	79.0	100.4	717.5	628.6	155.8	123.5	74.2	50.2	36.0	25.2	
3	19.8	32.0	87.8	87.8	623.4	835.4	170.9	119.0	71.8	50.2	36.0	25.2	
4	17.1	37.0	92.0	90.6	726.1	823.0	191.3	116.0	71.8	50.2	35.0	25.2	
5	16.2	117.5	77.8	558.4	1278.0	850.9	274.5	128.0	71.8	49.0	35.0	25.2	
6	15.3	80.2	67.0	3209.4	1404.2	863.7	460.9	116.0	70.6	49.0	35.0	24.3	
7	15.3	55.0	58.6	5647.2	969.9	1043.0	297.3	110.2	69.4	47.8	34.0	24.3	
8	14.4	39.4	55.0	3715.0	789.1	918.4	282.1	111.6	68.2	47.8	34.0	24.3	
9	13.5	36.0	57.4	2264.9	668.2	703.3	257.8	107.4	67.0	47.8	33.0	24.3	
10	13.5	36.0	57.4	1510.6	589.6	594.8	230.8	106.0	67.0	47.8	32.0	23.4	
11	13.5	47.8	51.4	1438.4	792.0	703.3	254.2	101.8	67.0	46.6	32.0	23.4	
12	13.5	41.8	47.8	1011.8	746.1	523.0	229.0	99.0	65.8	46.6	31.0	22.5	
13	14.4	33.0	45.4	743.3	641.6	451.8	209.2	96.2	65.8	45.4	31.0	22.5	
14	14.4	34.0	44.2	628.6	528.0	396.8	202.0	97.6	65.8	45.4	31.0	22.5	
15	16.2	40.6	43.0	525.5	486.2	357.2	189.6	100.4	64.6	44.2	31.0	22.5	
16	17.1	74.2	45.4	495.4	490.8	368.2	169.2	103.2	65.8	44.2	31.0	21.6	
17	18.9	96.2	59.8	474.7	467.8	331.4	187.9	100.4	64.6	44.2	31.0	21.6	
18	21.6	119.0	65.8	751.9	434.2	297.3	239.8	129.5	62.2	43.0	31.0	21.6	
19	24.3	94.8	64.6	1148.0	613.0	272.6	278.3	164.1	61.0	43.0	30.0	21.6	
20	28.0	69.4	110.2	863.7	600.0	272.6	245.2	123.5	59.8	49.0	30.0	20.7	
21	22.5	57.4	179.4	780.5	613.0	261.4	202.0	106.0	58.6	47.8	30.0	20.7	
22	20.7	179.4	132.5	720.3	481.6	241.6	184.5	99.0	57.4	45.4	29.0	20.7	
23	19.8	301.1	126.5	610.4	427.6	227.2	177.7	93.4	56.2	43.0	28.0	20.7	
24	21.6	245.2	236.2	563.6	432.0	212.8	169.2	92.0	55.0	41.8	28.0	20.7	
25	20.7	144.6	416.6	786.3	396.8	200.2	169.2	90.6	55.0	41.8	27.0	20.7	
26	31.0	140.0	472.4	670.9	355.0	189.6	169.2	87.8	55.0	40.6	27.0	20.7	
27	37.0	119.0	299.2	928.1	350.6	186.2	194.8	85.0	55.0	39.4	26.1	19.8	
28	35.0	90.6	187.9	695.2	472.4	182.8	162.4	82.6	53.8	39.4	26.1	24.3	
29	32.0	147.8	157.4	723.2	449.6	170.9	146.2	80.2	52.6	38.2		25.2	
30	28.0	209.2	128.0	789.1	361.6	157.4	137.0	77.8	52.6	38.2		33.0	
31		170.9		863.7	339.8		134.0		51.4	37.0		37.0	
TOTAL	608.6	2937.7	3648.9	33508.5	19081.1	13870.6	6527.8	3175.8	1953.4	1395.4	877.2	730.6	88315.5 CMSDAY
MEAN	20.3	94.8	121.6	1080.9	615.5	462.4	210.6	105.9	63.0	45.0	31.3	23.6	242.0 CMS
MAX	37.0	301.1	472.4	5647.2	1404.2	1043.0	460.9	164.1	76.6	51.4	37.0	37.0	5647.2 CMS
MIN	13.5	23.4	43.0	87.8	339.8	157.4	134.0	77.8	51.4	37.0	26.1	19.8	13.5 CMS
RUNOFF	52.58	253.82	315.26	2895.13	1648.60	1198.42	564.00	274.39	168.77	120.56	75.79	63.12	7630.45 MCM

MOMENTARY PEAK 5694.00 CMS, AT 13.56 M (A.D), AT 12.00 HOURS, ON JUL 7, 1981

RUNOFF YIELD 23.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 550.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

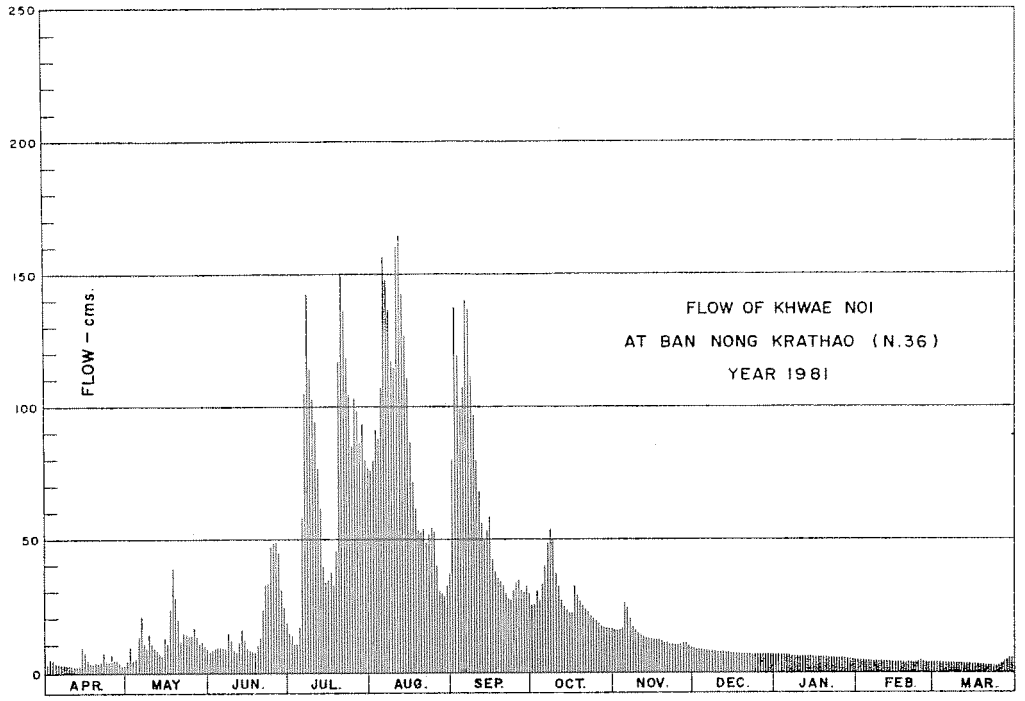
KHWAE NOI AT BAN NONG KRATHAO, PHITSANULOK (N.36)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.71	0.83	1.28	1.88	5.39	5.62	2.67	1.98	1.36	1.19	1.02	0.91	
2	0.99	1.42	1.39	1.72	5.61	6.96	2.59	1.93	1.35	1.19	1.01	0.91	
3	1.02	0.95	1.46	1.57	6.00	6.65	2.92	1.92	1.34	1.19	1.00	0.90	
4	0.86	0.98	1.46	1.50	5.85	6.25	2.65	2.01	1.32	1.18	0.98	0.90	
5	0.82	1.78	1.43	1.69	6.33	6.48	3.24	2.63	1.31	1.17	0.96	0.90	
6	0.82	2.31	1.41	4.45	7.10	6.99	3.52	2.55	1.31	1.17	0.96	0.89	
7	0.80	1.57	1.42	6.43	7.04	6.95	4.05	2.17	1.30	1.15	0.96	0.89	
8	0.77	1.38	1.83	7.00	6.90	6.57	4.31	1.99	1.30	1.13	0.96	0.88	
9	0.77	1.78	1.62	6.73	6.70	6.09	4.05	1.90	1.30	1.13	0.96	0.87	
10	0.73	1.55	1.38	6.38	6.68	5.49	3.41	1.81	1.29	1.13	0.95	0.87	
11	0.66	1.36	1.26	6.09	7.12	5.00	3.13	1.76	1.29	1.12	0.94	0.87	
12	0.66	1.28	1.44	5.33	7.14	4.42	2.78	1.73	1.28	1.11	0.94	0.86	
13	0.73	1.14	1.90	4.51	6.99	4.08	2.60	1.69	1.28	1.11	0.93	0.86	
14	1.42	1.13	1.63	3.55	6.81	4.31	2.47	1.69	1.28	1.10	0.92	0.85	
15	1.27	1.67	1.33	3.15	6.51	4.56	2.37	1.69	1.27	1.10	0.91	0.84	
16	1.00	1.49	1.29	3.19	5.92	3.69	2.39	1.68	1.26	1.10	0.91	0.84	
17	0.86	2.12	1.32	3.40	5.27	3.46	3.07	1.68	1.26	1.10	0.90	0.82	
18	0.82	3.42	1.23	3.06	4.76	3.26	2.85	1.72	1.24	1.10	0.90	0.80	
19	0.83	2.50	1.48	3.71	4.33	3.16	2.68	1.64	1.23	1.09	0.89	0.80	
20	0.81	1.97	1.73	6.69	4.20	3.04	2.58	1.60	1.22	1.09	0.88	0.80	
21	0.86	1.50	2.59	7.05	4.28	2.88	2.52	1.58	1.22	1.08	0.86	0.79	
22	1.25	1.85	3.05	6.95	4.06	2.73	2.40	1.57	1.21	1.08	0.85	0.79	
23	0.94	1.81	3.14	6.72	4.17	2.72	2.32	1.56	1.21	1.07	0.85	0.78	
24	0.85	1.78	3.87	6.23	4.31	3.00	2.27	1.55	1.21	1.07	0.91	0.78	
25	1.20	1.79	4.00	5.76	4.25	3.15	2.19	1.54	1.21	1.06	0.95	0.77	
26	0.94	1.99	4.02	6.36	3.75	3.21	2.10	1.53	1.20	1.06	0.93	0.80	
27	0.98	1.82	3.72	6.23	3.01	2.92	2.06	1.59	1.20	1.06	0.92	0.85	
28	0.89	1.50	2.94	5.80	2.91	2.92	2.02	1.60	1.20	1.05	0.92	0.87	
29	0.82	1.59	2.46	6.04	2.81	3.04	2.02	1.46	1.19	1.04		0.98	
30	0.77	1.44	2.10	5.58	3.08	2.91	1.99	1.41	1.19	1.03		1.12	
31		1.50		5.43	3.34		2.00		1.19	1.02		1.07	
MEAN	0.89	1.65	2.04	4.84	5.25	4.42	2.72	1.77	1.26	1.11	0.93	0.87	
MAX	1.42	3.42	4.02	7.05	7.14	6.99	4.31	2.63	1.36	1.19	1.02	1.12	7.14
MIN	0.66	0.83	1.23	1.50	2.81	2.72	1.99	1.41	1.19	1.02	0.85	0.77	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.21 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 6.98 M (A.D)
RIGHT BANK ELEVATION 6.91 M (A.D), DRAINAGE AREA 1651 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.08	3.07	7.61	14.99	76.57	82.11	26.25	16.33	8.51	6.59	4.81	3.79	
2	4.51	9.19	8.85	12.91	81.85	137.76	25.05	15.65	8.40	6.59	4.70	3.79	
3	4.81	4.15	9.65	10.97	92.10	114.50	30.12	15.52	8.29	6.59	4.60	3.70	
4	3.34	4.42	9.65	10.10	88.00	99.55	25.95	16.74	8.06	6.49	4.42	3.70	
5	2.98	13.69	9.31	12.52	102.09	107.28	35.24	25.65	7.95	6.38	4.24	3.70	
6	2.98	20.94	9.06	56.75	156.50	140.94	39.94	24.45	7.95	6.38	4.24	3.61	
7	2.80	10.97	9.19	105.48	147.80	136.70	49.30	18.98	7.83	6.17	4.24	3.61	
8	2.56	8.74	14.34	142.00	131.40	110.80	54.09	16.46	7.83	5.96	4.24	3.52	
9	2.56	13.69	11.61	118.86	117.00	94.71	49.30	15.25	7.83	5.96	4.24	3.43	
10	2.24	10.72	8.74	103.74	116.00	78.96	38.07	14.08	7.72	5.96	4.15	3.43	
11	1.78	8.51	7.38	94.71	160.40	68.00	33.48	13.43	7.72	5.86	4.06	3.43	
12	1.78	7.61	9.42	75.19	164.30	56.18	27.90	13.04	7.61	5.75	4.06	3.34	
13	2.24	6.07	15.25	57.90	140.94	49.84	25.20	12.52	7.61	5.75	3.97	3.34	
14	9.19	5.96	11.74	40.45	124.02	54.09	23.26	12.52	7.61	5.65	3.88	3.25	
15	7.49	12.26	8.17	33.80	108.40	58.90	21.81	12.52	7.49	5.65	3.79	3.16	
16	4.60	9.99	7.72	34.44	89.86	42.87	22.10	12.39	7.38	5.65	3.79	3.16	
17	3.34	18.28	8.06	37.90	73.84	38.92	32.52	12.39	7.38	5.65	3.70	2.98	
18	2.98	38.24	7.04	32.36	62.90	35.56	29.00	12.91	7.15	5.65	3.70	2.80	
19	3.07	23.70	9.87	43.22	54.47	33.96	26.40	11.87	7.04	5.54	3.61	2.80	
20	2.89	16.19	13.04	116.50	52.00	32.04	24.90	11.35	6.93	5.54	3.52	2.80	
21	3.34	10.10	25.05	149.25	53.52	29.48	24.00	11.10	6.93	5.44	3.34	2.72	
22	7.27	14.60	32.20	136.70	49.48	27.15	22.25	10.97	6.81	5.44	3.25	2.72	
23	4.06	14.08	33.64	118.24	51.46	27.00	21.09	10.85	6.81	5.33	3.25	2.64	
24	3.25	13.69	46.06	98.93	54.09	31.40	20.38	10.72	6.81	5.33	3.79	2.64	
25	6.70	13.82	48.40	85.68	52.95	33.80	19.26	10.60	6.81	5.23	4.15	2.56	
26	4.06	16.46	48.76	103.08	43.92	34.76	18.00	10.47	6.70	5.23	3.97	2.80	
27	4.42	14.21	43.40	98.93	31.56	30.12	17.44	11.22	6.70	5.23	3.88	3.25	
28	3.61	10.10	30.44	86.70	29.96	30.12	16.88	11.35	6.70	5.12	3.88	4.33	
29	2.98	11.22	23.12	93.26	28.36	32.04	16.88	9.65	6.59	5.02		4.42	
30	2.56	9.42	18.00	81.12	32.68	29.96	16.46	9.08	6.59	4.91		5.86	
31		10.10		77.52	36.88		16.60		6.59	4.81		5.33	
TOTAL	112.47	384.19	544.79	2284.20	2605.30	1879.50	849.12	410.06	228.33	176.85	111.47	106.61	9692.87 CMSDAY
MEAN	3.75	12.39	18.16	73.68	84.04	62.65	27.39	13.67	7.37	5.70	3.98	3.44	26.56 CMS
MAX	9.19	38.24	48.76	149.25	164.30	140.94	54.09	25.65	8.51	6.59	4.81	5.86	164.30 CMS
MIN	1.78	3.07	7.04	10.10	28.36	27.00	16.46	9.08	6.59	4.81	3.25	2.56	1.78 CMS
RUNOFF	9.717	33.194	47.070	197.355	225.098	162.389	73.364	35.429	19.728	15.280	9.631	9.211	837.464 MCM

MOMENTARY PEAK 178.25 CMS, AT 7.21 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 16.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 107.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

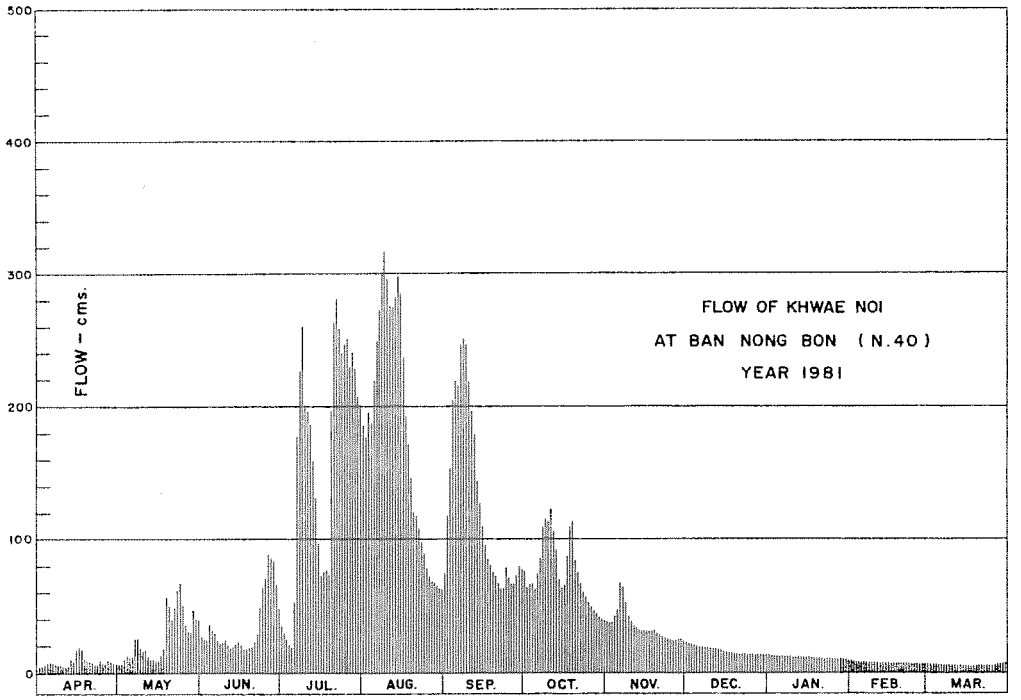
KHWAE NOI AT BAN NONG BON, PHITSANULOK (N.40)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 93 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.70	1.45	1.80	4.80	2.77	2.83	1.83	1.33	0.97	0.79	0.71	
2	0.60	0.68	1.43	1.57	4.66	3.69	2.54	1.82	1.28	0.96	0.79	0.71	
3	0.62	0.80	1.38	1.42	4.96	4.39	2.58	1.81	1.27	0.95	0.79	0.71	
4	0.68	0.98	1.76	1.28	4.83	5.06	2.63	1.94	1.25	0.94	0.79	0.70	
5	0.77	0.91	1.62	1.21	5.14	5.30	2.53	2.13	1.24	0.94	0.79	0.70	
6	0.71	0.96	1.52	1.98	5.79	5.26	2.86	2.59	1.23	0.93	0.78	0.69	
7	0.67	1.44	1.35	4.99	6.04	5.66	3.13	2.54	1.21	0.92	0.78	0.69	
8	0.65	1.42	1.29	5.84	6.47	5.78	3.51	2.24	1.20	0.92	0.78	0.69	
9	0.62	1.10	1.30	5.89	6.70	5.71	3.62	1.98	1.18	0.91	0.77	0.68	
10	0.60	1.03	1.38	5.04	6.41	5.34	3.58	1.86	1.16	0.90	0.77	0.68	
11	0.59	1.14	1.21	4.95	6.20	4.95	3.74	1.76	1.15	0.89	0.77	0.68	
12	0.59	0.96	1.20	4.81	6.05	4.64	3.38	1.70	1.14	0.89	0.76	0.68	
13	0.87	0.85	1.20	4.38	6.19	3.99	3.03	1.66	1.12	0.89	0.76	0.68	
14	0.77	0.79	1.29	3.91	6.42	3.72	2.70	1.64	1.11	0.89	0.76	0.68	
15	1.12	0.77	1.36	3.25	6.22	3.54	2.52	1.62	1.09	0.88	0.76	0.67	
16	1.20	0.79	1.26	2.75	5.69	3.30	2.53	1.60	1.07	0.88	0.76	0.67	
17	1.15	0.89	1.11	2.81	5.13	3.05	3.10	1.61	1.06	0.88	0.76	0.67	
18	0.86	1.17	1.14	2.83	4.61	2.91	3.49	1.64	1.04	0.88	0.76	0.66	
19	0.82	2.31	1.18	2.77	4.10	2.82	3.55	1.65	1.03	0.87	0.76	0.65	
20	0.82	2.05	1.20	4.08	3.73	2.75	3.06	1.58	1.03	0.86	0.75	0.64	
21	0.77	1.87	1.30	5.90	3.68	2.62	2.83	1.52	1.02	0.85	0.75	0.64	
22	0.71	2.16	1.60	6.17	3.47	2.50	2.65	1.47	1.01	0.84	0.75	0.64	
23	0.69	2.47	2.22	5.86	3.26	2.52	2.48	1.44	1.00	0.84	0.74	0.64	
24	0.82	2.60	2.49	5.60	3.11	2.89	2.36	1.41	1.00	0.84	0.73	0.64	
25	0.74	2.16	2.73	5.72	2.96	2.74	2.26	1.41	0.99	0.83	0.73	0.63	
26	0.70	1.74	3.10	5.77	2.78	2.59	2.18	1.39	0.99	0.83	0.72	0.63	
27	0.82	1.57	3.05	5.47	2.67	2.57	2.08	1.41	0.98	0.82	0.72	0.67	
28	0.75	1.60	2.98	5.62	2.65	2.75	2.01	1.46	0.98	0.81	0.72	0.69	
29	0.75	2.05	2.61	5.35	2.58	2.90	1.95	1.45	0.98	0.81		0.71	
30	0.73	1.89	2.18	5.14	2.51	2.86	1.90	1.37	0.98	0.80		0.70	
31		1.89		5.04	2.49		1.85		0.98	0.79		0.76	
MEAN	0.76	1.41	1.70	4.17	4.59	3.72	2.76	1.72	1.10	0.88	0.76	0.68	
MAX	1.20	2.60	3.10	6.17	6.70	5.78	3.74	2.59	1.33	0.97	0.79	0.76	6.70
MIN	0.59	0.68	1.11	1.21	2.49	2.50	1.85	1.37	0.98	0.79	0.72	0.63	0.59

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.76 M (A.D.), AT 4.00 HOURS, ON AUG 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED M (A.D.)
LEFT BANK ELEVATION M (A.D.)
RIGHT BANK ELEVATION M (A.D.), DRAINAGE AREA 4340 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.8	6.0	25.5	36.5	185.2	73.1	75.8	37.5	22.0	12.2	8.0	6.2	
2	4.0	5.6	24.9	29.1	176.5	118.9	63.6	37.1	20.5	12.0	8.0	6.2	
3	4.4	8.2	23.4	24.6	195.8	159.6	65.2	36.8	20.3	11.7	8.0	6.2	
4	5.6	12.5	35.2	20.5	187.2	202.4	67.2	41.1	19.7	11.5	8.0	6.0	
5	7.6	10.7	30.6	18.6	207.6	218.2	63.2	47.9	19.4	11.5	8.0	6.0	
6	6.2	12.0	27.6	42.5	252.3	215.6	77.2	65.6	19.1	11.2	7.8	5.8	
7	5.4	25.2	22.5	197.7	270.4	243.2	90.0	63.6	18.6	11.0	7.8	5.8	
8	5.0	24.6	20.8	255.9	301.6	251.6	109.3	52.0	18.3	11.0	7.8	5.8	
9	4.4	15.5	21.1	259.5	318.5	246.7	115.1	42.5	17.7	10.7	7.6	5.6	
10	4.0	13.7	23.4	201.0	297.2	220.9	112.9	38.4	17.2	10.5	7.6	5.6	
11	3.8	16.6	18.6	195.1	282.0	195.1	121.7	35.2	16.9	10.3	7.6	5.6	
12	3.8	12.0	18.3	185.9	271.1	175.2	102.5	33.2	16.6	10.3	7.3	5.6	
13	9.8	9.4	18.3	159.0	281.3	135.9	85.0	31.9	16.1	10.3	7.3	5.6	
14	7.6	8.0	20.8	131.3	297.9	120.6	70.0	31.3	15.8	10.3	7.3	5.6	
15	16.1	7.6	22.8	96.0	283.4	110.8	62.8	30.6	15.2	10.0	7.3	5.4	
16	18.3	8.0	20.0	72.2	245.3	98.5	63.2	30.0	14.7	10.0	7.3	5.4	
17	16.9	10.3	15.8	74.9	207.0	86.0	88.5	30.3	14.5	10.0	7.3	5.4	
18	9.6	17.5	16.6	75.8	173.4	79.4	108.2	31.3	14.0	10.0	7.3	5.2	
19	8.7	54.6	17.7	73.1	142.2	75.4	111.4	31.6	13.7	9.8	7.3	5.0	
20	8.7	45.0	18.3	141.1	121.1	72.2	86.5	29.4	13.7	9.6	7.1	4.8	
21	7.6	38.8	21.1	260.2	118.4	66.8	75.8	27.6	13.5	9.4	7.1	4.8	
22	6.2	49.0	30.0	279.8	107.2	62.0	68.0	26.1	13.2	9.1	7.1	4.8	
23	5.8	60.8	51.2	257.3	96.5	62.8	61.2	25.2	13.0	9.1	6.9	4.8	
24	8.7	66.0	61.6	239.0	89.0	78.5	56.5	24.3	13.0	9.1	6.7	4.8	
25	6.9	49.0	71.3	247.4	81.7	71.8	52.7	24.3	12.7	8.9	6.7	4.6	
26	6.0	34.5	88.5	250.9	73.6	65.6	49.7	23.7	12.7	8.9	6.4	4.6	
27	8.7	29.1	86.0	229.9	68.8	64.8	46.0	24.3	12.5	8.7	6.4	5.4	
28	7.1	30.0	82.6	240.4	68.0	72.2	43.6	25.8	12.5	8.5	6.4	5.8	
29	7.1	45.0	66.4	221.6	65.2	79.0	41.5	25.5	12.5	8.5		6.2	
30	6.7	39.4	49.7	207.6	62.4	77.2	39.7	23.1	12.5	8.2		6.0	
31		39.4		201.0	61.6		38.1		12.5	8.0		7.3	
TOTAL	224.5	804.0	1050.6	4925.4	5589.4	3800.0	2312.1	1027.2	484.6	310.3	205.4	171.9	20905.4 CMSDAY
MEAN	7.5	25.9	35.0	158.9	180.3	126.7	74.6	34.2	15.6	10.0	7.3	5.5	57.3 CMS
MAX	18.3	66.0	88.5	279.8	318.5	251.6	121.7	65.6	22.0	12.2	8.0	7.3	318.5 CMS
MIN	3.8	5.6	15.8	18.6	61.6	62.0	38.1	23.1	12.5	8.0	6.4	4.6	3.8 CMS
RUNOFF	19.40	69.47	90.77	425.55	482.92	328.32	199.77	88.75	41.87	26.81	17.75	14.85	1806.22 MCM

MOMENTARY PEAK 323.00 CMS, AT 6.76 M (A.D), AT 4.00 HOURS, ON AUG 9, 1981
RUNOFF YIELD 13.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.42 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

NAN RIVER BASIN

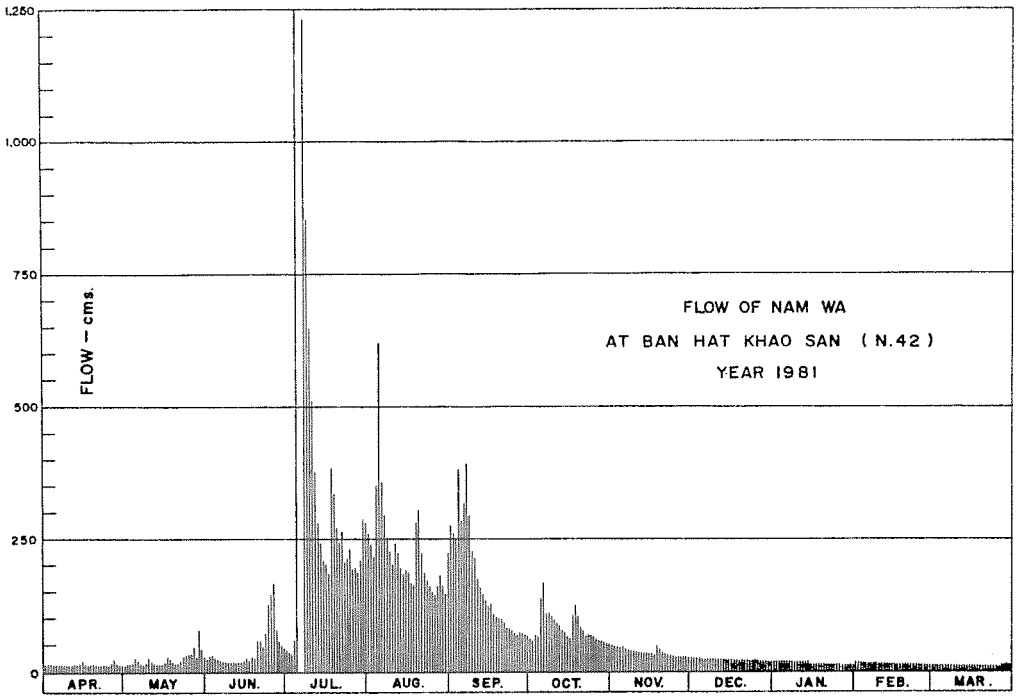
NAM WA AT BAN HAT KHAO SAN, NAN (N.42)

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 AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +11.602 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 61 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HETGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.03	1.00	1.20	1.50	3.89	4.04	2.25	2.12	1.86	1.75	1.74	1.67	
2	1.05	1.01	1.26	1.41	3.78	3.95	2.23	2.10	1.85	1.75	1.74	1.67	
3	1.03	1.01	1.26	1.36	3.62	3.88	2.34	2.09	1.85	1.75	1.73	1.67	
4	1.01	1.03	1.23	1.82	4.29	4.68	2.29	2.07	1.85	1.75	1.73	1.67	
5	1.01	1.24	1.21	8.62	5.87	4.12	2.85	2.10	1.85	1.74	1.73	1.66	
6	1.01	1.15	1.15	13.24	4.53	4.37	3.24	2.05	1.84	1.74	1.73	1.66	
7	1.01	1.06	1.12	9.95	4.17	4.75	2.72	2.04	1.84	1.74	1.72	1.66	
8	1.01	1.03	1.12	8.19	3.89	4.19	2.76	2.02	1.83	1.75	1.72	1.65	
9	1.01	1.02	1.11	6.96	3.68	3.76	2.70	2.01	1.83	1.73	1.72	1.65	
10	1.01	1.25	1.11	5.94	3.52	3.60	2.63	1.99	1.83	1.73	1.71	1.65	
11	1.01	1.12	1.11	5.05	3.78	3.38	2.55	1.98	1.83	1.72	1.71	1.65	
12	1.04	1.06	1.08	4.59	3.67	3.21	2.54	1.98	1.82	1.72	1.70	1.65	
13	1.02	1.03	1.10	4.10	3.50	3.08	2.41	1.97	1.82	1.72	1.71	1.65	
14	1.07	1.03	1.10	3.81	3.35	2.97	2.40	1.97	1.82	1.72	1.71	1.65	
15	1.12	1.02	1.10	3.56	3.46	2.86	2.31	1.97	1.82	1.71	1.71	1.64	
16	1.06	1.06	1.21	3.52	3.40	2.89	2.28	1.95	1.82	1.71	1.71	1.64	
17	1.01	1.27	1.15	3.37	3.26	2.76	2.66	1.95	1.82	1.71	1.70	1.64	
18	1.04	1.22	1.25	4.71	3.19	2.68	2.87	2.09	1.81	1.71	1.70	1.64	
19	1.05	1.12	1.23	4.48	4.08	2.66	2.71	2.03	1.80	1.71	1.70	1.63	
20	1.02	1.08	1.80	4.06	4.24	2.67	2.49	1.96	1.79	1.71	1.69	1.63	
21	1.00	1.07	1.76	3.77	3.72	2.55	2.42	1.94	1.79	1.71	1.69	1.63	
22	1.03	1.14	1.57	3.95	3.45	2.48	2.33	1.93	1.79	1.71	1.68	1.63	
23	1.05	1.26	1.97	3.52	3.29	2.48	2.36	1.92	1.78	1.70	1.68	1.63	
24	1.01	1.28	2.65	3.61	3.20	2.41	2.34	1.92	1.78	1.70	1.68	1.63	
25	1.01	1.39	2.91	3.71	3.11	2.39	2.29	1.91	1.78	1.70	1.68	1.63	
26	1.04	1.38	3.21	3.43	3.03	2.35	2.28	1.90	1.78	1.69	1.68	1.62	
27	1.18	1.55	2.25	3.45	3.19	2.42	2.25	1.90	1.77	1.69	1.67	1.66	
28	1.06	1.22	1.82	3.37	3.35	2.36	2.21	1.89	1.77	1.69	1.67	1.67	
29	1.02	2.10	1.69	3.56	3.21	2.36	2.17	1.88	1.77	1.68		1.70	
30	1.00	1.62	1.54	4.14	3.02	2.33	2.16	1.87	1.76	1.68		1.66	
31		1.31		4.11	3.63		2.14		1.76	1.67		1.69	
MEAN	1.03	1.20	1.51	4.54	3.66	3.15	2.46	1.98	1.81	1.72	1.70	1.65	
MAX	1.18	2.10	3.21	13.24	5.87	4.75	3.24	2.12	1.86	1.75	1.74	1.70	13.24
MIN	1.00	1.00	1.08	1.36	3.02	2.33	2.14	1.87	1.76	1.67	1.67	1.62	1.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 14.07 M (A.D), AT 12.00 HOURS, ON JUL 6, 1981
ZERO GAGF AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.36 M (A.D)
LEFT BANK ELEVATION 15.29 M (A.D)
RIGHT BANK ELEVATION 14.70 M (A.D), DRAINAGE AREA 2107 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.8	10.0	22.0	40.0	252.6	274.0	59.5	47.8	25.8	17.5	16.8	11.9	
2	13.0	10.6	25.6	34.6	237.2	261.0	57.7	46.0	25.0	17.5	16.8	11.9	
3	11.8	10.6	26.8	31.6	215.6	251.2	67.6	45.1	25.0	17.5	16.1	11.9	
4	10.6	11.8	23.8	59.4	312.4	377.4	63.1	43.3	25.0	17.5	16.1	11.9	
5	10.6	24.4	22.6	1350.0	617.1	286.0	120.9	46.0	25.0	16.8	16.1	11.2	
6	10.6	19.0	19.0	*******	351.1	325.2	166.9	41.5	24.2	16.8	16.1	11.2	
7	10.6	13.6	17.2	*******	293.5	390.0	106.2	40.6	24.2	16.8	15.4	11.2	
8	10.6	11.8	17.2	1222.1	252.6	296.5	110.6	38.8	23.4	16.1	15.4	10.5	
9	10.6	11.2	16.6	884.6	223.4	234.4	104.0	37.9	23.4	16.1	15.4	10.5	
10	10.6	25.0	16.6	610.2	202.6	213.0	96.3	36.2	23.4	16.1	14.7	10.5	
11	10.6	17.2	16.6	444.5	237.2	184.4	88.0	35.4	23.4	15.4	14.7	10.5	
12	12.4	13.6	14.8	361.3	222.1	163.4	87.0	35.4	22.6	15.4	14.0	10.5	
13	11.2	11.8	16.0	283.0	200.0	148.0	74.0	34.6	22.6	15.4	14.7	10.5	
14	14.2	11.8	16.0	241.4	180.5	135.1	73.0	34.6	22.6	15.4	14.7	10.5	
15	17.2	11.2	16.0	207.8	194.8	122.1	64.9	34.6	22.6	14.7	14.7	9.8	
16	13.6	13.6	22.6	202.6	187.0	125.6	62.2	33.0	22.6	14.7	14.7	9.8	
17	10.6	26.2	19.0	183.1	169.3	110.6	99.6	33.0	22.6	14.7	14.0	9.8	
18	12.4	23.2	25.0	382.8	161.0	101.8	123.3	45.1	21.8	14.7	14.0	9.8	
19	13.0	17.2	23.8	342.8	280.0	99.6	105.1	39.7	21.0	14.7	14.0	9.1	
20	11.2	14.8	58.0	277.0	304.4	100.7	82.0	33.8	20.3	14.7	13.3	9.1	
21	10.0	14.2	55.6	235.8	228.8	88.0	75.0	32.2	20.3	14.7	13.3	9.1	
22	11.8	18.4	44.2	261.0	193.5	81.0	66.7	31.4	20.3	14.7	12.6	9.1	
23	13.0	25.6	69.9	202.6	172.8	81.0	69.4	30.6	19.6	14.0	12.6	9.1	
24	10.6	26.8	119.0	214.3	162.2	74.0	67.6	30.6	19.6	14.0	12.6	9.1	
25	10.6	33.4	139.8	227.4	151.6	72.1	63.1	29.8	19.6	14.0	12.6	9.1	
26	12.4	32.8	163.8	190.9	142.1	68.5	62.2	29.0	19.6	13.3	12.6	8.4	
27	20.8	43.0	89.5	193.5	161.0	75.0	59.5	29.0	18.9	13.3	11.9	11.2	
28	13.6	23.2	59.4	183.1	180.5	69.4	55.9	28.2	18.9	13.3	11.9	11.9	
29	11.2	79.0	51.4	207.8	163.4	69.4	52.3	27.4	18.9	12.6		14.0	
30	10.0	47.2	42.4	289.0	141.0	66.7	51.4	26.6	18.2	12.6		11.2	
31		28.6		284.5	216.9		49.6		18.2	11.9		13.3	
TOTAL	361.2	680.8	1270.2	*******	7008.2	4945.1	2484.6	1077.2	678.6	466.9	401.8	327.6	******** CMSDAY
MEAN	12.0	22.0	42.3	*******	226.1	164.8	80.1	35.9	21.9	15.1	14.3	10.6	******* CMS
MAX	20.8	79.0	163.8	1350.0	617.1	390.0	166.9	47.8	25.8	17.5	16.8	14.0	1350.0 CMS
MIN	10.0	10.0	14.8	*******	141.0	66.7	49.6	26.6	18.2	11.9	11.9	8.4	******* CMS
RUNOFF	31.21	58.82	109.75	*******	605.51	427.26	214.67	93.07	58.63	40.34	34.72	28.30	******** MCM

MOMENTARY PEAK ******** CMS, AT 14.07 M (A.D), AT 12.00 HOURS, ON JUL 6, 1981

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

// FOR

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 11 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

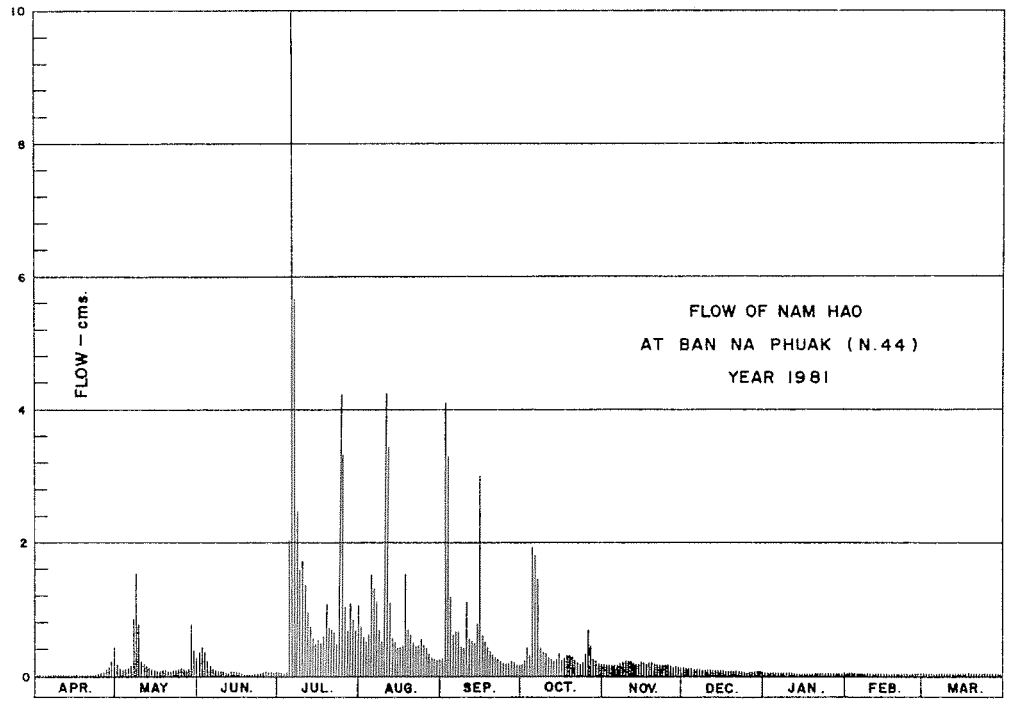
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.22	0.33	0.16	0.45	0.30	0.25	0.25	0.23	0.15	0.14	0.12	
2	0.09	0.22	0.36	0.15	0.40	0.82	0.27	0.25	0.23	0.15	0.13	0.12	
3	0.09	0.19	0.34	0.14	0.39	0.75	0.35	0.24	0.22	0.15	0.13	0.12	
4	0.09	0.21	0.27	0.15	0.41	0.52	0.32	0.24	0.22	0.15	0.11	0.12	
5	0.10	0.22	0.23	0.41	0.57	0.41	0.62	0.24	0.21	0.15	0.12	0.12	
6	0.10	0.22	0.21	1.29	0.54	0.42	0.61	0.24	0.21	0.15	0.12	0.10	
7	0.10	0.30	0.20	0.89	0.54	0.42	0.52	0.25	0.21	0.15	0.11	0.12	
8	0.09	0.57	0.18	0.67	0.43	0.36	0.35	0.27	0.21	0.15	0.10	0.12	
9	0.09	0.42	0.18	0.58	0.38	0.35	0.33	0.28	0.20	0.15	0.10	0.12	
10	0.09	0.27	0.18	0.60	0.37	0.51	0.33	0.27	0.20	0.15	0.11	0.12	
11	0.09	0.25	0.16	0.57	0.83	0.39	0.31	0.27	0.20	0.15	0.12	0.12	
12	0.08	0.24	0.15	0.48	0.51	0.39	0.29	0.26	0.20	0.14	0.11	0.10	
13	0.10	0.22	0.17	0.44	0.40	0.38	0.28	0.25	0.20	0.14	0.10	0.10	
14	0.10	0.22	0.16	0.39	0.38	0.43	0.29	0.25	0.20	0.14	0.09	0.11	
15	0.09	0.21	0.16	0.37	0.35	0.73	0.33	0.27	0.20	0.13	0.08	0.12	
16	0.09	0.19	0.14	0.39	0.35	0.41	0.29	0.26	0.20	0.14	0.11	0.12	
17	0.09	0.18	0.12	0.38	0.35	0.39	0.30	0.26	0.17	0.12	0.13	0.12	
18	0.09	0.19	0.11	0.41	0.57	0.36	0.31	0.27	0.17	0.12	0.11	0.12	
19	0.08	0.21	0.12	0.51	0.42	0.33	0.31	0.27	0.18	0.13	0.10	0.13	
20	0.08	0.19	0.10	0.43	0.41	0.31	0.30	0.26	0.17	0.14	0.10	0.13	
21	0.09	0.18	0.09	0.43	0.38	0.30	0.27	0.25	0.17	0.14	0.12	0.13	
22	0.09	0.20	0.11	0.42	0.36	0.28	0.26	0.25	0.16	0.14	0.11	0.12	
23	0.08	0.20	0.14	0.37	0.36	0.27	0.25	0.25	0.16	0.14	0.11	0.12	
24	0.09	0.20	0.14	0.38	0.39	0.25	0.25	0.25	0.16	0.14	0.11	0.13	
25	0.11	0.22	0.15	0.83	0.37	0.25	0.32	0.25	0.14	0.14	0.12	0.12	
26	0.15	0.20	0.16	0.51	0.35	0.26	0.43	0.23	0.15	0.14	0.12	0.11	
27	0.20	0.19	0.17	0.42	0.32	0.27	0.34	0.23	0.15	0.14	0.12	0.08	
28	0.22	0.20	0.16	0.51	0.30	0.26	0.28	0.23	0.16	0.13	0.12	0.10	
29	0.26	0.44	0.16	0.47	0.30	0.25	0.28	0.23	0.17	0.12		0.12	
30	0.35	0.35	0.16	0.42	0.29	0.24	0.26	0.23	0.17	0.13		0.13	
31		0.30		0.50	0.30		0.25		0.16	0.15		0.13	
MEAN	0.12	0.25	0.18	0.47	0.41	0.39	0.33	0.25	0.19	0.14	0.11	0.12	
MAX	0.35	0.57	0.36	1.29	0.83	0.82	0.62	0.28	0.23	0.15	0.14	0.13	1.29
MIN	0.08	0.18	0.09	0.14	0.29	0.24	0.25	0.23	0.14	0.12	0.08	0.08	0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.42 M (A.D), AT 9.00 HOURS, ON JUL 6, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — M (A.D)

RIGHT BANK ELEVATION — M (A.D), DRAINAGE AREA — 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.116	0.347	0.048	0.790	0.260	0.170	0.170	0.134	0.040	0.032	0.016	
2	0.000	0.116	0.434	0.040	0.550	4.080	0.206	0.170	0.134	0.040	0.024	0.016	
3	0.000	0.072	0.376	0.032	0.521	3.225	0.405	0.152	0.116	0.040	0.024	0.016	
4	0.000	0.098	0.206	0.040	0.598	1.168	0.318	0.152	0.116	0.040	0.008	0.016	
5	0.000	0.116	0.134	0.598	1.513	0.598	1.906	0.152	0.098	0.040	0.016	0.016	
6	0.000	0.116	0.098	13.480	1.306	0.646	1.813	0.152	0.098	0.040	0.016	0.000	
7	0.000	0.260	0.080	5.060	1.306	0.646	1.168	0.170	0.098	0.040	0.008	0.016	
8	0.000	1.513	0.064	2.371	0.694	0.434	0.405	0.206	0.098	0.040	0.000	0.016	
9	0.000	0.646	0.064	1.582	0.492	0.405	0.347	0.224	0.080	0.040	0.000	0.016	
10	0.000	0.206	0.064	1.720	0.463	1.099	0.347	0.206	0.080	0.040	0.008	0.016	
11	0.000	0.170	0.048	1.513	4.220	0.521	0.289	0.206	0.080	0.040	0.016	0.016	
12	0.000	0.152	0.040	0.934	1.099	0.521	0.242	0.188	0.080	0.032	0.008	0.000	
13	0.000	0.116	0.056	0.742	0.550	0.492	0.224	0.170	0.080	0.032	0.000	0.000	
14	0.000	0.116	0.048	0.521	0.492	0.694	0.242	0.170	0.080	0.032	0.000	0.008	
15	0.000	0.098	0.048	0.463	0.405	2.995	0.347	0.206	0.080	0.024	0.000	0.016	
16	0.000	0.072	0.032	0.521	0.405	0.598	0.242	0.188	0.080	0.032	0.008	0.016	
17	0.000	0.064	0.016	0.492	0.405	0.521	0.260	0.188	0.056	0.016	0.024	0.016	
18	0.000	0.072	0.008	0.598	1.513	0.434	0.289	0.206	0.056	0.016	0.008	0.016	
19	0.000	0.098	0.016	1.099	0.646	0.347	0.289	0.206	0.064	0.024	0.000	0.024	
20	0.000	0.072	0.000	0.694	0.598	0.289	0.260	0.188	0.056	0.032	0.000	0.024	
21	0.000	0.064	0.000	0.694	0.492	0.260	0.206	0.170	0.056	0.032	0.016	0.024	
22	0.000	0.080	0.008	0.646	0.434	0.224	0.188	0.170	0.048	0.032	0.008	0.016	
23	0.000	0.080	0.032	0.463	0.434	0.206	0.170	0.170	0.048	0.032	0.008	0.016	
24	0.000	0.080	0.032	0.492	0.521	0.170	0.170	0.170	0.048	0.032	0.008	0.024	
25	0.008	0.116	0.040	4.220	0.463	0.170	0.318	0.170	0.032	0.032	0.016	0.016	
26	0.040	0.080	0.048	1.099	0.405	0.188	0.694	0.134	0.040	0.032	0.016	0.008	
27	0.080	0.072	0.056	0.646	0.318	0.206	0.376	0.134	0.040	0.032	0.016	0.000	
28	0.116	0.080	0.048	1.099	0.260	0.188	0.224	0.134	0.048	0.024	0.016	0.000	
29	0.188	0.742	0.048	0.886	0.260	0.170	0.224	0.134	0.056	0.016		0.016	
30	0.405	0.405	0.048	0.646	0.242	0.152	0.188	0.134	0.056	0.024		0.024	
31		0.260		1.030	0.260		0.170		0.048	0.040		0.024	
TOTAL	0.837	6.348	2.539	44.469	22.658	21.907	12.697	5.190	2.284	1.008	0.304	0.448	120.686 CMSDAY
MEAN	0.028	0.205	0.085	1.434	0.731	0.730	0.410	0.173	0.074	0.033	0.011	0.014	0.331 CMS
MAX	0.405	1.513	0.434	13.480	4.220	4.080	1.906	0.224	0.134	0.040	0.032	0.024	13.480 CMS
MIN	0.000	0.064	0.000	0.032	0.242	0.152	0.170	0.134	0.032	0.016	0.000	0.000	0.000 CMS
RUNOFF	0.072	0.548	0.219	3.842	1.957	1.893	1.097	0.448	0.197	0.087	0.026	0.039	10.427 MCM

MOMENTARY PEAK 17.62 CMS, AT 1.42 M (A.D), AT 9.00 HOURS, ON JUL 6, 1981

RUNOFF YIELD 8.06 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 429.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE TOP 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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 15 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — NO RECORDS DURING JUL.5-10, 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

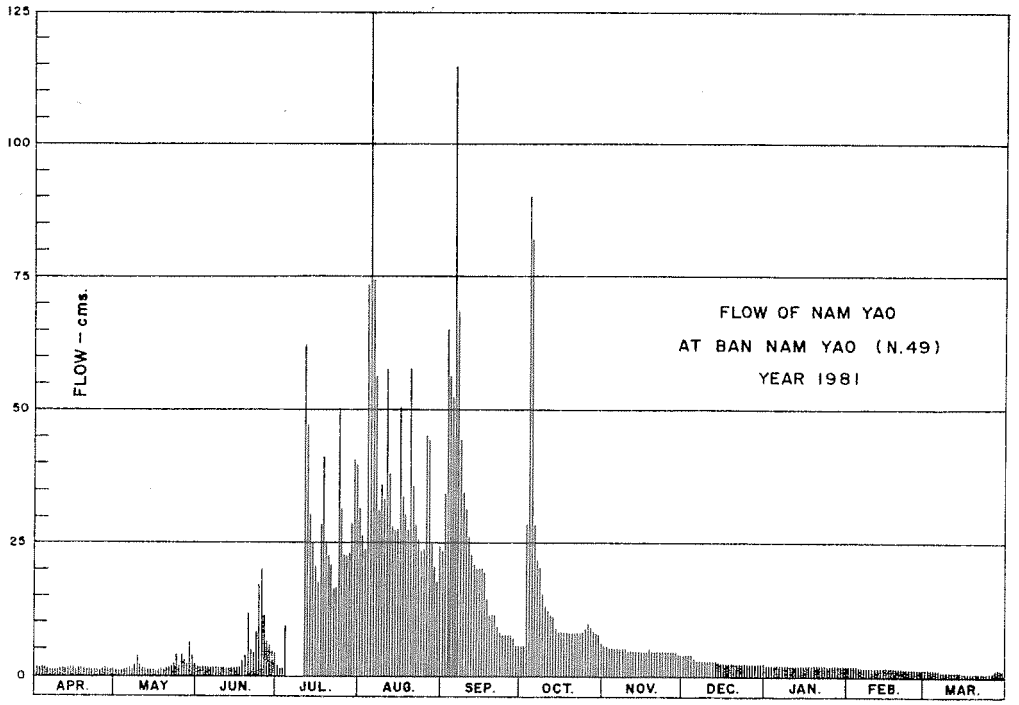
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	0.85	0.88	0.89	1.72	1.66	1.45	1.45	1.42	1.37	1.37	1.35	
2	0.88	0.84	0.88	0.88	1.69	1.76	1.45	1.45	1.42	1.37	1.37	1.35	
3	0.87	0.84	0.89	0.86	1.66	1.98	1.53	1.44	1.42	1.37	1.37	1.35	
4	0.87	0.85	0.88	1.14	1.98	1.85	2.14	1.44	1.42	1.37	1.37	1.35	
5	0.86	0.87	0.88	*******	2.67	1.89	2.02	1.44	1.41	1.37	1.36	1.35	
6	0.85	0.88	0.87	*******	2.04	2.28	1.70	1.44	1.40	1.37	1.36	1.34	
7	0.85	0.85	0.87	*******	1.94	2.02	1.65	1.44	1.40	1.37	1.36	1.33	
8	0.85	0.87	0.88	*******	1.73	1.84	1.63	1.44	1.40	1.37	1.36	1.33	
9	0.84	0.99	0.88	*******	1.77	1.76	1.58	1.44	1.40	1.37	1.36	1.33	
10	0.87	0.92	0.87	*******	1.75	1.75	1.55	1.43	1.40	1.37	1.36	1.33	
11	0.88	0.88	0.87	1.96	1.93	1.71	1.54	1.43	1.40	1.37	1.36	1.33	
12	0.86	0.85	0.87	1.85	1.80	1.66	1.53	1.43	1.40	1.37	1.36	1.33	
13	0.87	0.84	0.86	1.73	1.72	1.64	1.53	1.43	1.40	1.37	1.36	1.33	
14	0.89	0.85	0.88	1.68	1.70	1.63	1.50	1.43	1.39	1.37	1.36	1.33	
15	0.88	0.86	0.88	1.64	1.70	1.63	1.49	1.43	1.38	1.37	1.36	1.32	
16	0.85	0.84	0.88	1.60	1.88	1.63	1.49	1.43	1.38	1.37	1.36	1.32	
17	0.87	0.85	0.88	1.67	1.75	1.62	1.49	1.43	1.38	1.37	1.36	1.32	
18	0.89	0.98	0.94	1.81	1.73	1.57	1.49	1.44	1.38	1.37	1.36	1.32	
19	0.87	0.85	0.95	1.70	1.70	1.53	1.49	1.43	1.38	1.37	1.36	1.32	
20	0.86	0.86	1.21	1.66	1.93	1.53	1.49	1.43	1.38	1.37	1.36	1.32	
21	0.86	0.88	1.02	1.63	1.76	1.53	1.49	1.43	1.38	1.37	1.36	1.32	
22	0.85	0.88	0.99	1.59	1.71	1.50	1.49	1.43	1.38	1.37	1.35	1.32	
23	0.85	0.92	1.11	1.59	1.68	1.48	1.49	1.43	1.38	1.37	1.35	1.32	
24	0.84	0.99	1.30	1.88	1.66	1.48	1.49	1.43	1.38	1.37	1.35	1.32	
25	0.84	0.88	1.36	1.69	1.66	1.48	1.50	1.43	1.38	1.37	1.35	1.32	
26	0.86	1.00	1.20	1.65	1.84	1.48	1.51	1.43	1.38	1.37	1.35	1.32	
27	0.90	0.94	1.09	1.65	1.83	1.48	1.50	1.43	1.38	1.37	1.35	1.33	
28	0.85	0.92	1.06	1.66	1.68	1.47	1.49	1.43	1.38	1.37	1.35	1.35	
29	0.84	1.07	1.01	1.73	1.64	1.45	1.49	1.42	1.38	1.37		1.34	
30	0.85	0.99	1.00	1.81	1.60	1.45	1.48	1.42	1.38	1.37		1.34	
31		0.92		1.80	1.67		1.45		1.38	1.37		1.34	
MEAN	0.86	0.89	0.97	*******	1.79	1.66	1.55	1.43	1.39	1.37	1.36	1.33	
MAX	0.90	1.07	1.36	1.96	2.67	2.28	2.14	1.45	1.42	1.37	1.37	1.35	2.67
MIN	0.84	0.84	0.86	*******	1.60	1.45	1.45	1.42	1.38	1.37	1.35	1.32	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.40 M (A.D), AT 13.00 HOURS, ON JUL 5, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D); RIVER BED -0.02 M (A.D)

LEFT BANK ELEVATION 9.43 M (A.D)

RIGHT BANK ELEVATION 11.11 M (A.D), DRAINAGE AREA 155 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.54	1.15	1.54	1.67	29.74	23.26	5.75	5.75	3.92	1.89	1.89	1.35	
2	1.54	1.02	1.54	1.54	26.29	34.62	5.75	5.75	3.92	1.89	1.89	1.35	
3	1.41	1.02	1.67	1.28	23.26	64.84	11.32	5.14	3.92	1.89	1.89	1.35	
4	1.41	1.15	1.54	0.00	64.84	46.35	90.36	5.14	3.92	1.89	1.89	1.35	
5	1.28	1.41	1.54	*******	188.45	51.83	70.96	5.14	3.31	1.89	1.62	1.35	
6	1.15	1.54	1.41	*******	74.17	114.44	27.30	5.14	2.70	1.89	1.62	1.08	
7	1.15	1.15	1.41	*******	59.02	70.96	22.25	5.14	2.70	1.89	1.62	0.81	
8	1.15	1.41	1.54	*******	30.96	44.98	20.23	5.14	2.70	1.89	1.62	0.81	
9	1.02	3.78	1.54	*******	35.84	34.62	15.52	5.14	2.70	1.89	1.62	0.81	
10	1.41	2.24	1.41	*******	33.40	33.40	13.00	4.53	2.70	1.89	1.62	0.81	
11	1.54	1.54	1.41	61.93	57.56	28.52	12.16	4.53	2.70	1.89	1.62	0.81	
12	1.28	1.15	1.41	46.35	39.50	23.26	11.32	4.53	2.70	1.89	1.62	0.81	
13	1.41	1.02	1.28	30.96	29.74	21.24	11.32	4.53	2.70	1.89	1.62	0.81	
14	1.67	1.15	1.54	25.28	27.30	20.23	8.80	4.53	2.43	1.89	1.62	0.81	
15	1.54	1.28	1.54	21.24	27.30	20.23	8.19	4.53	2.16	1.89	1.62	0.54	
16	1.15	1.02	1.54	17.20	50.46	20.23	8.19	4.53	2.16	1.89	1.62	0.54	
17	1.41	1.15	1.54	24.27	33.40	19.22	8.19	4.53	2.16	1.89	1.62	0.54	
18	1.67	1.54	2.68	40.87	30.96	14.68	8.19	5.14	2.16	1.89	1.62	0.54	
19	1.41	1.15	2.90	27.30	27.30	11.32	8.19	4.53	2.16	1.89	1.62	0.54	
20	1.28	1.28	11.75	23.26	57.56	11.32	8.19	4.53	2.16	1.89	1.62	0.54	
21	1.28	1.54	4.62	20.23	34.62	11.32	8.19	4.53	2.16	1.89	1.62	0.54	
22	1.15	1.54	3.78	16.36	28.52	8.80	8.19	4.53	2.16	1.89	1.35	0.54	
23	1.15	2.24	7.51	16.36	25.28	7.58	8.19	4.53	2.16	1.89	1.35	0.54	
24	1.02	3.78	16.30	50.46	23.26	7.58	8.19	4.53	2.16	1.89	1.35	0.54	
25	1.02	1.54	20.02	26.29	23.26	7.58	8.80	4.53	2.16	1.89	1.35	0.54	
26	1.28	4.00	11.25	22.25	44.98	7.58	9.64	4.53	2.16	1.89	1.35	0.54	
27	1.80	2.68	6.79	22.25	43.61	7.58	8.80	4.53	2.16	1.89	1.35	0.81	
28	1.15	2.24	5.86	23.26	25.28	6.97	8.19	4.53	2.16	1.89	1.35	1.35	
29	1.02	6.17	4.31	30.96	21.24	5.75	8.19	3.92	2.16	1.89		1.08	
30	1.15	3.78	4.00	40.87	17.20	5.75	7.58	3.92	2.16	1.89		1.08	
31		2.24		39.50	24.27		5.75		2.16	1.89		1.08	
TOTAL	39.44	59.90	127.17	*******	1258.57	786.04	464.89	142.00	79.74	58.59	44.55	26.19	******** CMSDAY
MEAN	1.31	1.93	4.24	*******	40.60	26.20	15.00	4.73	2.57	1.89	1.59	0.84	******* CMS
MAX	1.80	6.17	20.02	61.93	188.45	114.44	90.36	5.75	3.92	1.89	1.89	1.35	188.45 CMS
MIN	1.02	1.02	1.28	*******	17.20	5.75	5.75	3.92	2.16	1.89	1.35	0.54	******* CMS
RUNOFF	3.408	5.175	10.987	*******	108.740	67.914	40.166	12.269	6.890	5.062	3.849	2.263	******** MCM

MOMENTARY PEAK ******** CMS, AT 4.40 M (A.D), AT 13.00 HOURS, ON JUL 5, 1981

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

WATER YEAR 1981

NAN RIVER BASIN

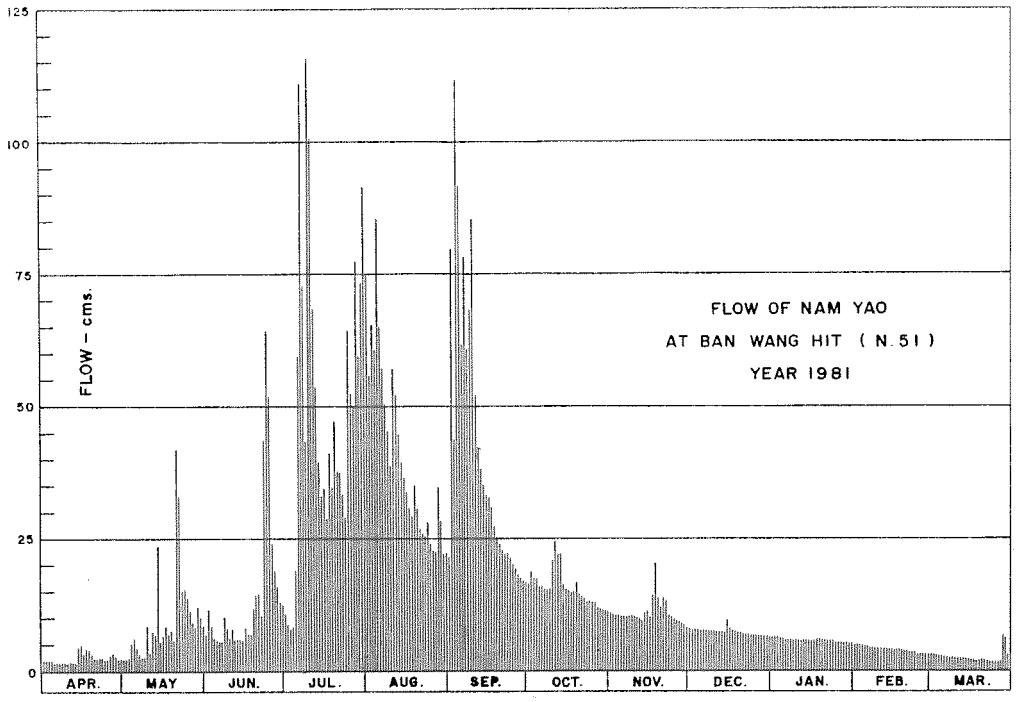
HUAI NAM YAO AT BAN WANG HIT, NAN (N.51)

LOCATION	LAT. 19-09-31 N., LONG. 100-46-56 E., ON RIGHT BANK BEHIND THE PHA TO TOBACCO'S HOUSE AT BAN WANG HIT, AMPHOE THA WANG PHA, NAN.
DRAINAGE AREA	774 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+230.10 M. (M.S.L.)
BENCH MARK	B.M. FROM MET. NO.04
LOCATION	ON LEFT BANK ABOUT 2 METERS UPSTREAM FROM MEASURING POLE.
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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	230.79	230.81	231.00	231.13	232.56	231.51	231.35	231.17	231.06	230.99	230.93	230.85	
2	230.79	230.81	231.18	231.08	232.35	232.83	231.43	231.16	231.05	230.99	230.93	230.85	
3	230.80	230.81	231.06	231.05	232.55	232.09	231.39	231.15	231.05	230.98	230.93	230.85	
4	230.79	230.95	230.98	231.08	232.46	233.41	231.39	231.15	231.05	230.98	230.93	230.85	
5	230.78	230.99	230.96	231.36	232.94	232.76	231.34	231.15	231.05	230.98	230.92	230.84	
6	230.78	230.91	230.94	232.67	232.49	232.47	231.34	231.14	231.05	230.97	230.92	230.83	
7	230.78	230.84	230.96	233.40	232.37	232.80	231.33	231.14	231.05	230.97	230.92	230.83	
8	230.78	230.82	231.13	232.51	232.23	232.46	231.32	231.14	231.05	230.97	230.91	230.83	
9	230.78	230.82	231.04	232.07	232.09	232.63	231.33	231.14	231.04	230.97	230.90	230.83	
10	230.77	231.08	230.98	233.83	231.97	232.94	231.50	231.15	231.04	230.97	230.90	230.83	
11	230.78	230.86	231.04	233.04	232.38	232.25	231.58	231.13	231.03	230.97	230.90	230.82	
12	230.78	231.03	230.97	232.43	232.26	232.10	231.53	231.12	231.03	230.97	230.90	230.82	
13	230.77	231.01	230.97	232.13	232.11	231.98	231.51	231.11	231.03	230.97	230.90	230.82	
14	230.90	231.57	230.97	231.85	231.99	231.89	231.37	231.16	231.03	230.97	230.89	230.81	
15	230.94	230.96	230.95	231.83	231.93	231.84	231.32	231.18	231.11	230.96	230.89	230.81	
16	230.84	230.98	231.06	231.86	231.84	231.83	231.31	231.14	231.05	230.96	230.89	230.81	
17	230.89	231.06	231.01	231.73	231.79	231.77	231.30	231.28	231.03	230.96	230.89	230.80	
18	230.88	231.01	231.00	232.02	231.74	231.68	231.32	231.48	231.03	230.98	230.88	230.79	
19	230.83	231.02	231.19	231.88	231.88	231.63	231.37	231.27	231.02	230.98	230.88	230.79	
20	230.81	230.97	231.28	232.16	231.77	231.59	231.30	231.22	231.02	230.97	230.88	230.79	
21	230.80	232.04	231.28	231.94	231.68	231.55	231.28	231.27	231.01	230.97	230.88	230.79	
22	230.82	231.83	231.14	231.94	231.65	231.53	231.27	231.25	231.01	230.97	230.87	230.79	
23	230.83	231.31	232.06	231.80	231.63	231.54	231.24	231.15	231.01	230.96	230.87	230.79	
24	230.80	231.32	232.53	231.73	231.70	231.52	231.25	231.13	231.00	230.95	230.87	230.79	
25	230.80	231.27	232.18	232.53	231.60	231.47	231.24	231.12	231.00	230.95	230.86	230.79	
26	230.83	231.18	231.65	232.30	231.55	231.44	231.24	231.11	231.00	230.95	230.86	230.78	
27	230.86	231.09	231.45	232.23	231.54	231.42	231.21	231.10	231.00	230.95	230.86	230.80	
28	230.83	231.07	231.34	232.79	231.88	231.39	231.19	231.08	231.00	230.94	230.85	231.00	
29	230.80	231.20	231.23	232.43	231.63	231.37	231.19	231.08	230.99	230.94		230.99	
30	230.82	231.14	231.23	232.71	231.53	231.36	231.19	231.06	230.99	230.94		230.86	
31		231.06		233.05	231.54		231.18		230.99	230.94		230.93	
MEAN	230.81	231.09	231.22	232.15	231.99	231.97	231.33	231.16	231.03	230.96	230.89	230.83	
MAX	230.94	232.04	232.53	233.83	232.94	233.41	231.58	231.48	231.11	230.99	230.93	231.00	233.83
MIN	230.77	230.81	230.94	231.05	231.53	231.36	231.18	231.06	230.99	230.94	230.85	230.78	230.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 234.76 M (MSL), AT 14.00 HOURS, ON JUL 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 230.10 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 237.54 M (MSL)
RIGHT BANK ELEVATION 238.51 M (MSL), DRAINAGE AREA 774 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.8	2.2	6.7	10.0	65.6	21.3	16.3	11.0	8.2	6.4	4.9	3.1	
2	1.8	2.2	11.3	8.7	55.6	79.4	18.8	10.8	7.9	6.4	4.9	3.1	
3	2.0	2.2	8.2	7.9	65.1	43.8	17.5	10.5	7.9	6.2	4.9	3.1	
4	1.8	5.4	6.2	8.7	60.8	111.1	17.5	10.5	7.9	6.2	4.9	3.1	
5	1.6	6.4	5.7	16.6	85.1	75.7	16.0	10.5	7.9	6.2	4.7	2.9	
6	1.6	4.4	5.2	71.1	62.3	61.3	16.0	10.2	7.9	5.9	4.7	2.7	
7	1.6	2.9	5.7	110.5	56.6	77.8	15.7	10.2	7.9	5.9	4.7	2.7	
8	1.6	2.4	10.0	63.2	50.1	60.8	15.4	10.2	7.9	5.9	4.4	2.7	
9	1.6	2.4	7.7	43.0	43.8	69.0	15.7	10.2	7.7	5.9	4.2	2.7	
10	1.4	8.7	6.2	135.4	38.7	85.1	21.0	10.5	7.7	5.9	4.2	2.7	
11	1.6	3.3	7.7	90.4	57.0	51.0	23.7	10.0	7.4	5.9	4.2	2.4	
12	1.6	7.4	5.9	59.4	51.4	44.2	22.0	9.7	7.4	5.9	4.2	2.4	
13	1.4	6.9	5.9	45.6	44.7	39.1	21.3	9.5	7.4	5.9	4.2	2.4	
14	4.2	23.4	5.9	33.7	39.6	35.3	16.9	10.8	7.4	5.9	4.0	2.2	
15	5.2	5.7	5.4	32.9	37.0	33.3	15.4	11.3	9.5	5.7	4.0	2.2	
16	2.9	6.2	8.2	34.1	33.3	32.9	15.1	10.2	7.9	5.7	4.0	2.2	
17	4.0	8.2	6.9	29.1	31.4	30.6	14.7	14.2	7.4	5.7	4.0	2.0	
18	3.8	6.9	6.7	40.8	29.5	27.3	15.4	20.4	7.4	6.2	3.8	1.8	
19	2.7	7.2	11.5	34.9	34.9	25.5	16.9	13.9	7.2	6.2	3.8	1.8	
20	2.2	5.9	14.2	46.9	30.6	24.1	14.7	12.4	7.2	5.9	3.8	1.8	
21	2.0	41.7	14.2	37.4	27.3	22.7	14.2	13.9	6.9	5.9	3.8	1.8	
22	2.4	32.9	10.2	37.4	26.2	22.0	13.9	13.3	6.9	5.9	3.5	1.8	
23	2.7	15.1	42.5	31.7	25.5	22.4	13.0	10.5	6.9	5.7	3.5	1.8	
24	2.0	15.4	64.2	29.1	28.0	21.7	13.3	10.0	6.7	5.4	3.5	1.8	
25	2.0	13.9	47.8	64.2	24.4	20.0	13.0	9.7	6.7	5.4	3.3	1.8	
26	2.7	11.3	26.2	53.2	22.7	19.1	13.0	9.5	6.7	5.4	3.3	1.6	
27	3.3	8.9	19.4	50.1	22.4	18.4	12.1	9.2	6.7	5.4	3.3	2.0	
28	2.7	8.4	16.0	77.3	34.9	17.5	11.5	8.7	6.7	5.2	3.1	6.7	
29	2.0	11.8	12.7	59.4	25.5	16.9	11.5	8.7	6.4	5.2		6.4	
30	2.4	10.2	12.7	73.1	22.0	16.6	11.5	8.2	6.4	5.2		3.3	
31		8.2		90.9	22.4		11.3		6.4	5.2		4.9	
TOTAL	70.6	298.1	417.1	1526.7	1254.4	1225.9	484.3	328.7	228.5	179.8	113.8	83.9	6211.8 CMSDAY
MEAN	2.4	9.6	13.9	49.2	40.5	40.9	15.6	11.0	7.4	5.8	4.1	2.7	17.0 CMS
MAX	5.2	41.7	64.2	135.4	85.1	111.1	23.7	20.4	9.5	6.4	4.9	6.7	135.4 CMS
MIN	1.4	2.2	5.2	7.9	22.0	16.6	11.3	8.2	6.4	5.2	3.1	1.6	1.4 CMS
RUNOFF	6.10	25.76	36.04	131.91	108.38	105.92	41.84	28.40	19.74	15.53	9.83	7.25	536.70 MCM

MOMENTARY PEAK 192.49 CMS, AT 234.76 M (MSL), AT 14.00 HOURS, ON JUL 10, 1981

RUNOFF YIELD 21.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 248.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 OF KHLONG BUTSABONG AT BAN HUAI TUM, AMPHOE CHON DAN, PHETCHABUN.

DRAINAGE AREA — 111 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE FOOT 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — RECORDS POOR FOR MAX MOMENTARY PEAK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

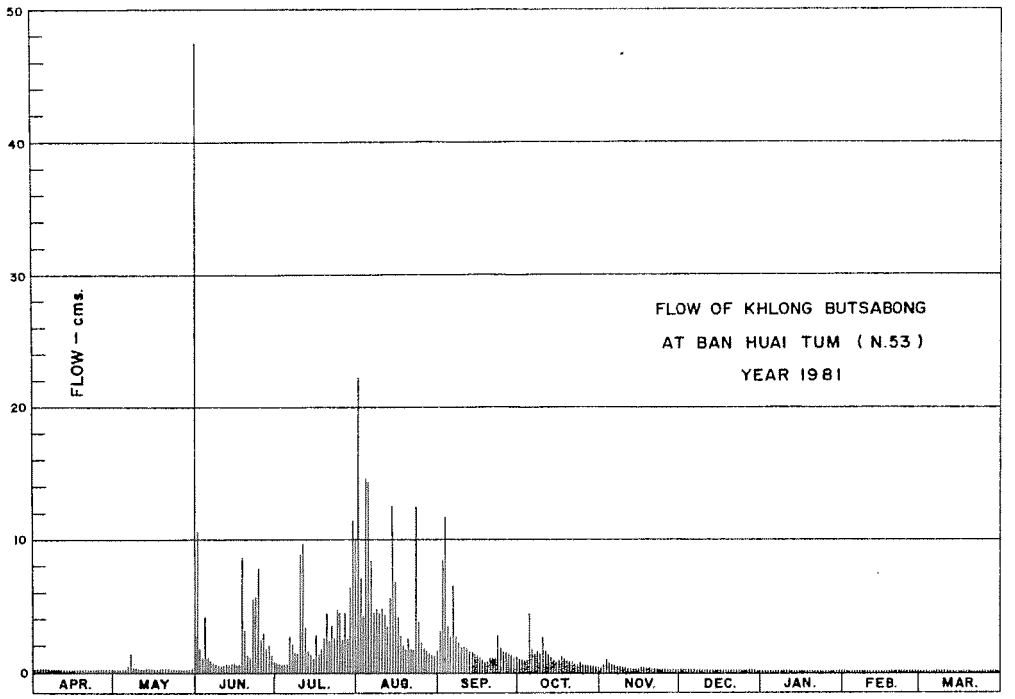
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.49	1.79	0.69	1.41	0.85	0.72	0.63	0.57	0.49	0.43	0.38	
2	0.32	0.39	0.80	0.68	1.03	1.06	0.71	0.64	0.56	0.49	0.42	0.37	
3	0.32	0.40	0.73	0.67	0.93	1.18	0.71	0.72	0.55	0.49	0.41	0.37	
4	0.32	0.45	0.93	0.67	1.25	0.91	0.72	0.70	0.55	0.49	0.41	0.36	
5	0.32	0.50	0.73	0.68	1.24	0.86	0.94	0.68	0.55	0.48	0.41	0.35	
6	0.31	0.57	0.70	0.84	1.02	1.02	0.79	0.65	0.55	0.48	0.41	0.35	
7	0.31	0.76	0.67	0.81	0.94	0.86	0.75	0.64	0.54	0.48	0.42	0.35	
8	0.31	0.60	0.66	0.75	0.95	0.83	0.77	0.64	0.54	0.48	0.42	0.35	
9	0.30	0.56	0.65	0.78	0.94	0.81	0.75	0.63	0.54	0.48	0.42	0.34	
10	0.30	0.55	0.62	1.02	0.95	0.81	0.84	0.62	0.54	0.47	0.42	0.34	
11	0.30	0.55	0.66	1.12	0.94	0.79	0.77	0.60	0.53	0.47	0.42	0.34	
12	0.30	0.50	0.66	0.89	0.90	0.78	0.75	0.60	0.53	0.47	0.41	0.34	
13	0.31	0.52	0.64	0.77	0.97	0.76	0.74	0.60	0.53	0.47	0.41	0.34	
14	0.34	0.59	0.66	0.75	1.20	0.75	0.72	0.60	0.52	0.47	0.41	0.34	
15	0.34	0.54	0.67	0.72	1.01	0.75	0.70	0.60	0.52	0.46	0.41	0.34	
16	0.33	0.51	0.64	0.86	0.91	0.74	0.74	0.61	0.52	0.46	0.40	0.34	
17	0.32	0.55	0.64	0.75	0.86	0.72	0.74	0.61	0.52	0.45	0.40	0.34	
18	0.32	0.56	1.12	0.79	0.82	0.70	0.72	0.60	0.51	0.45	0.40	0.34	
19	0.32	0.61	0.87	0.84	0.80	0.71	0.71	0.60	0.51	0.44	0.39	0.33	
20	0.32	0.58	0.76	0.94	0.84	0.74	0.70	0.59	0.50	0.44	0.40	0.33	
21	0.32	0.56	0.73	0.83	0.79	0.73	0.69	0.59	0.50	0.43	0.40	0.33	
22	0.34	0.57	0.98	0.90	0.80	0.73	0.68	0.59	0.50	0.43	0.39	0.32	
23	0.35	0.57	1.00	0.81	1.20	0.86	0.67	0.59	0.50	0.43	0.39	0.32	
24	0.35	0.58	1.06	0.95	0.92	0.80	0.68	0.58	0.50	0.44	0.39	0.32	
25	0.35	0.55	0.84	0.94	0.84	0.78	0.67	0.58	0.50	0.44	0.39	0.28	
26	0.39	0.52	0.87	0.84	0.80	0.78	0.65	0.58	0.50	0.47	0.39	0.31	
27	0.46	0.49	0.79	0.94	0.78	0.76	0.65	0.58	0.50	0.46	0.39	0.41	
28	0.47	0.55	0.83	0.85	0.76	0.75	0.65	0.58	0.50	0.45	0.38	0.67	
29	0.43	0.55	0.76	0.98	0.75	0.74	0.64	0.57	0.50	0.44		0.58	
30	0.41	0.53	0.70	1.17	0.75	0.75	0.63	0.57	0.49	0.44		0.48	
31		1.05		1.13	0.77		0.63		0.49	0.43		0.46	
MEAN	0.34	0.56	0.81	0.85	0.94	0.81	0.72	0.61	0.52	0.46	0.40	0.37	
MAX	0.47	1.05	1.79	1.17	1.41	1.18	0.94	0.72	0.57	0.49	0.43	0.67	1.79
MIN	0.30	0.39	0.62	0.67	0.75	0.70	0.63	0.57	0.49	0.43	0.38	0.28	0.28

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.10 M (A.D), AT 9.00 HOURS, ON JUN 1, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 111 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.04	47.34	0.65	22.18	2.57	0.91	0.35	0.15	0.04	0.01	0.00	
2	0.00	0.00	1.75	0.60	6.71	7.63	0.80	0.40	0.14	0.04	0.01	0.00	
3	0.00	0.00	1.01	0.55	4.12	11.73	0.80	0.91	0.12	0.04	0.00	0.00	
4	0.00	0.02	4.12	0.55	14.53	3.64	0.91	0.70	0.12	0.04	0.00	0.00	
5	0.00	0.04	1.01	0.60	14.11	2.74	4.36	0.60	0.12	0.03	0.00	0.00	
6	0.00	0.15	0.70	2.41	6.41	6.41	1.64	0.45	0.12	0.03	0.00	0.00	
7	0.00	1.33	0.55	1.91	4.36	2.74	1.23	0.40	0.10	0.03	0.01	0.00	
8	0.00	0.20	0.50	1.23	4.60	2.24	1.44	0.40	0.10	0.03	0.01	0.00	
9	0.00	0.14	0.45	1.54	4.36	1.91	1.23	0.35	0.10	0.03	0.01	0.00	
10	0.00	0.12	0.30	6.41	4.60	1.91	2.41	0.30	0.10	0.03	0.01	0.00	
11	0.00	0.12	0.50	9.57	4.36	1.64	1.44	0.20	0.09	0.03	0.01	0.00	
12	0.00	0.04	0.50	3.23	3.40	1.54	1.23	0.20	0.09	0.03	0.00	0.00	
13	0.00	0.07	0.40	1.44	5.08	1.33	1.12	0.20	0.09	0.03	0.00	0.00	
14	0.00	0.18	0.50	1.23	12.45	1.23	0.91	0.20	0.07	0.03	0.00	0.00	
15	0.00	0.10	0.55	0.91	6.10	1.23	0.70	0.20	0.07	0.02	0.00	0.00	
16	0.00	0.06	0.40	2.74	3.64	1.12	1.12	0.25	0.07	0.02	0.00	0.00	
17	0.00	0.12	0.40	1.23	2.74	0.91	1.12	0.25	0.07	0.02	0.00	0.00	
18	0.00	0.14	9.57	1.64	2.08	0.70	0.91	0.20	0.06	0.02	0.00	0.00	
19	0.00	0.25	2.90	2.41	1.75	0.80	0.80	0.20	0.06	0.02	0.00	0.00	
20	0.00	0.17	1.33	4.36	2.41	1.12	0.70	0.18	0.04	0.02	0.00	0.00	
21	0.00	0.14	1.01	2.24	1.64	1.01	0.65	0.18	0.04	0.01	0.00	0.00	
22	0.00	0.15	5.32	3.40	1.75	1.01	0.60	0.18	0.04	0.01	0.00	0.00	
23	0.00	0.15	5.80	1.91	12.45	2.74	0.55	0.18	0.04	0.01	0.00	0.00	
24	0.00	0.17	7.63	4.60	3.88	1.75	0.60	0.17	0.04	0.02	0.00	0.00	
25	0.00	0.12	2.41	4.36	2.41	1.54	0.55	0.17	0.04	0.02	0.00	0.00	
26	0.00	0.07	2.90	2.41	1.75	1.54	0.45	0.17	0.04	0.03	0.00	0.00	
27	0.02	0.04	1.64	4.36	1.54	1.33	0.45	0.17	0.04	0.02	0.00	0.00	
28	0.03	0.12	2.24	2.57	1.33	1.23	0.45	0.17	0.04	0.02	0.00	0.55	
29	0.01	0.12	1.33	5.32	1.23	1.12	0.40	0.15	0.04	0.02		0.17	
30	0.00	0.09	0.70	11.37	1.23	1.23	0.35	0.15	0.04	0.02		0.03	
31		7.32		9.93	1.44		0.35		0.04	0.01		0.02	
TOTAL	0.06	11.78	105.76	97.68	160.64	69.64	31.18	8.63	2.32	0.77	0.07	0.77	489.30 CMSDAY
MEAN	0.00	0.38	3.53	3.15	5.18	2.32	1.01	0.29	0.07	0.02	0.00	0.02	1.34 CMS
MAX	0.03	7.32	47.34	11.37	22.18	11.73	4.36	0.91	0.15	0.04	0.01	0.55	47.34 CMS
MIN	0.00	0.00	0.30	0.55	1.23	0.70	0.35	0.15	0.04	0.01	0.00	0.00	0.00 CMS
RUNOFF	0.005	1.018	9.138	8.440	13.879	6.017	2.694	0.746	0.200	0.067	0.006	0.067	42.275 MCM

MOMENTARY PEAK ******** CMS, AT 3.10 M (A.D), AT 9.00 HOURS, ON JUN 1, 1981

RUNOFF YIELD 12.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ******** LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

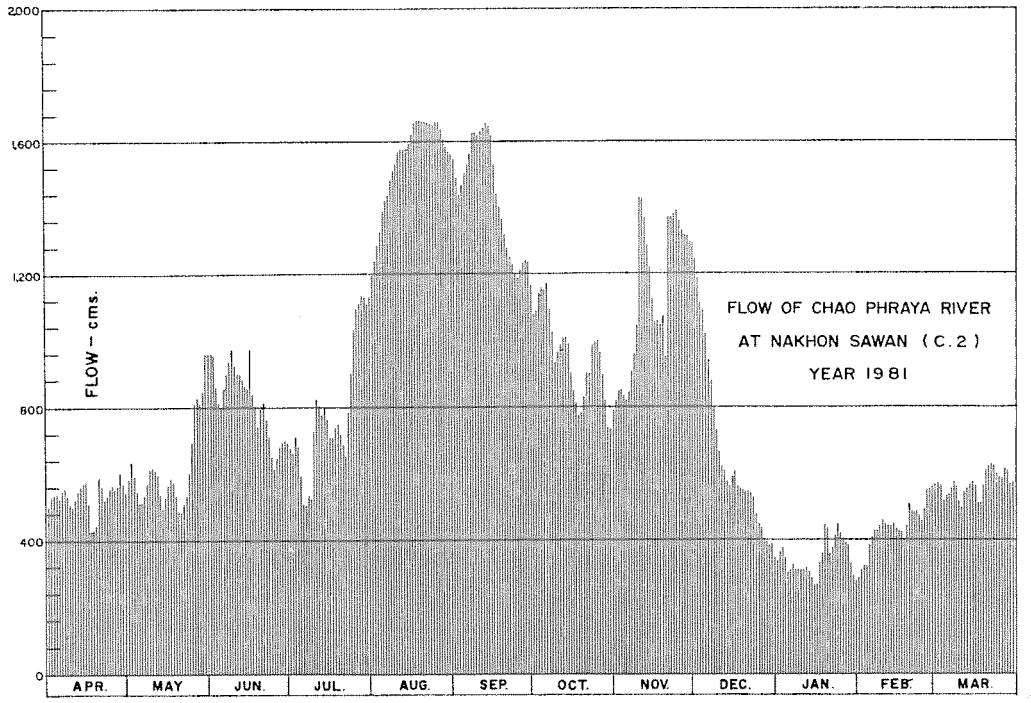
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 189 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	19.56	19.90	21.10	20.23	21.77	22.70	21.43	20.69	21.89	18.87	18.64	19.82	
2	19.70	20.08	21.07	20.17	21.90	22.57	21.45	20.76	21.72	18.98	18.76	19.85	
3	19.70	19.97	20.76	20.33	22.01	22.43	21.61	20.80	21.53	19.05	18.80	19.82	
4	19.71	19.74	20.65	20.23	22.13	22.49	21.65	20.72	21.46	18.91	18.80	19.61	
5	19.62	19.61	20.63	19.93	22.28	22.58	21.63	20.68	21.30	18.72	19.06	19.70	
6	19.76	19.61	20.80	19.60	22.39	22.66	21.70	20.78	21.10	18.73	19.20	19.71	
7	19.78	19.68	20.91	19.59	22.43	22.76	21.47	20.92	20.88	18.82	19.28	19.80	
8	19.66	19.86	21.01	19.69	22.53	22.91	21.08	21.08	20.68	18.73	19.29	19.86	
9	19.61	19.99	21.13	19.65	22.62	22.92	21.02	21.38	20.39	18.76	19.35	19.80	
10	19.57	20.01	21.02	20.36	22.69	22.89	21.09	22.40	20.14	18.76	19.43	19.58	
11	19.64	19.98	20.92	20.70	22.78	22.93	21.18	22.40	20.01	18.75	19.38	19.56	
12	19.75	19.90	20.92	20.65	22.79	22.95	21.22	22.16	19.98	18.77	19.35	19.71	
13	19.82	19.68	20.88	20.55	22.79	22.99	21.24	21.97	19.86	18.72	19.33	19.80	
14	19.84	19.54	20.82	20.61	22.80	22.97	21.16	21.79	19.80	18.59	19.36	19.81	
15	19.86	19.70	20.80	20.51	22.81	22.90	20.95	21.55	19.91	18.50	19.31	19.87	
16	19.61	19.83	20.84	20.31	22.90	22.68	20.74	21.37	19.97	18.54	19.27	19.82	
17	19.25	19.90	20.74	20.32	23.00	22.45	20.63	21.39	19.78	18.64	19.26	19.63	
18	19.32	19.81	20.64	20.44	23.02	22.33	20.55	21.35	19.77	18.98	19.18	19.61	
19	19.74	19.70	20.44	20.46	23.01	22.24	20.57	21.42	19.74	19.34	19.43	19.81	
20	19.91	19.50	20.60	20.38	22.99	22.16	20.74	21.08	19.72	19.30	19.61	19.96	
21	19.80	19.50	20.66	20.25	23.00	22.00	20.92	22.25	19.74	19.00	19.52	20.02	
22	19.64	19.62	20.52	20.13	23.00	21.91	20.93	22.25	19.72	19.08	19.50	20.06	
23	19.68	19.73	20.33	20.52	22.99	21.87	21.17	22.28	19.64	19.22	19.53	20.03	
24	19.77	19.95	20.15	20.90	22.98	21.78	21.19	22.31	19.44	19.35	19.47	19.94	
25	19.83	20.22	19.99	21.30	23.00	21.74	21.21	22.23	19.34	19.26	19.41	19.90	
26	19.76	20.67	20.14	21.45	23.00	21.81	21.08	22.14	19.29	19.14	19.55	19.91	
27	19.83	20.71	20.21	21.52	22.95	21.88	20.89	22.11	19.15	19.14	19.76	20.01	
28	19.97	20.67	20.28	21.60	22.88	21.89	20.64	22.10	19.11	19.06	19.79	19.99	
29	19.81	20.94	20.29	21.58	22.81	21.85	20.38	22.05	19.06	18.86		19.85	
30	19.73	21.10	20.29	21.48	22.77	21.72	20.40	22.05	19.11	18.70		19.86	
31		21.08		21.59	22.75		20.60		18.92	18.57		19.62	
MEAN	19.71	20.01	20.65	20.55	22.70	22.40	21.05	21.62	20.07	18.90	19.31	19.82	
MAX	19.97	21.10	21.13	21.60	23.02	22.99	21.70	22.40	21.89	19.35	19.79	20.06	23.02
MIN	19.25	19.50	19.99	19.59	21.77	21.72	20.38	20.68	18.92	18.50	18.64	19.56	18.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 23.02 M (MSL), AT 1.00 HOURS, ON AUG 18, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (MSL), RIVER BED 14.66 M (MSL)
LEFT BANK ELEVATION 25.73 M (MSL)
RIGHT BANK ELEVATION 26.23 M (MSL), DRAINAGE AREA 110569. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	500.	587.	960.	679.	1194.	1537.	1075.	819.	1236.	336.	288.	566.	
2	535.	637.	950.	662.	1240.	1489.	1082.	842.	1177.	361.	312.	574.	
3	535.	607.	842.	709.	1279.	1436.	1138.	855.	1110.	376.	320.	566.	
4	538.	545.	806.	679.	1324.	1459.	1152.	829.	1086.	345.	320.	512.	
5	515.	512.	800.	596.	1380.	1492.	1145.	816.	1030.	304.	378.	535.	
6	550.	512.	855.	510.	1421.	1523.	1170.	848.	960.	306.	410.	538.	
7	555.	530.	894.	507.	1436.	1560.	1089.	897.	883.	325.	430.	560.	
8	525.	576.	928.	532.	1474.	1619.	953.	953.	816.	306.	432.	576.	
9	512.	612.	970.	522.	1507.	1623.	932.	1058.	727.	312.	448.	560.	
10	503.	618.	932.	718.	1534.	1611.	956.	1425.	654.	312.	467.	505.	
11	520.	610.	897.	822.	1567.	1627.	988.	1425.	618.	310.	455.	500.	
12	548.	587.	897.	806.	1571.	1635.	1002.	1335.	610.	314.	448.	538.	
13	566.	530.	883.	775.	1571.	1651.	1009.	1264.	576.	304.	443.	560.	
14	571.	495.	862.	793.	1575.	1643.	981.	1201.	560.	278.	450.	563.	
15	576.	535.	855.	763.	1579.	1615.	907.	1117.	590.	260.	438.	579.	
16	512.	568.	869.	703.	1615.	1530.	835.	1054.	607.	268.	427.	566.	
17	423.	587.	835.	706.	1655.	1444.	800.	1061.	555.	288.	425.	517.	
18	440.	563.	803.	742.	1663.	1399.	775.	1047.	552.	361.	405.	512.	
19	545.	535.	742.	748.	1659.	1365.	781.	1072.	545.	445.	467.	563.	
20	590.	485.	790.	724.	1651.	1335.	835.	953.	540.	435.	512.	604.	
21	560.	485.	810.	685.	1655.	1275.	897.	1369.	545.	365.	490.	620.	
22	520.	515.	766.	651.	1655.	1243.	900.	1369.	540.	383.	485.	631.	
23	530.	543.	709.	766.	1651.	1229.	984.	1380.	520.	415.	493.	623.	
24	552.	601.	656.	890.	1647.	1198.	991.	1391.	470.	448.	477.	599.	
25	568.	676.	612.	1030.	1655.	1184.	998.	1361.	445.	425.	463.	587.	
26	550.	813.	654.	1082.	1655.	1208.	953.	1327.	432.	397.	498.	590.	
27	568.	826.	673.	1107.	1635.	1233.	887.	1316.	399.	397.	550.	618.	
28	607.	813.	694.	1135.	1607.	1236.	803.	1312.	390.	378.	557.	612.	
29	563.	904.	697.	1128.	1579.	1233.	724.	1294.	378.	333.		574.	
30	543.	960.	697.	1093.	1564.	1177.	730.	1294.	390.	300.		576.	
31		953.		1131.	1556.		790.		347.	274.		515.	
TOTAL	16120.	19320.	24338.	24394.	47754.	42809.	29262.	34284.	20288.	10661.	12288.	17539.	299057. CMSDAY
MEAN	537.	623.	811.	787.	1540.	1427.	944.	1143.	654.	344.	439.	566.	819. CMS
MAX	607.	960.	970.	1135.	1663.	1651.	1170.	1425.	1236.	448.	557.	631.	1663. CMS
MIN	423.	485.	612.	507.	1194.	1177.	724.	816.	347.	260.	288.	500.	260. CMS
RUNOFF	1392.8	1669.2	2102.8	2107.6	4125.9	3698.7	2528.2	2962.1	1752.9	921.1	1061.7	1515.4	25838.5 MCM

MOMENTARY PEAK 1663.00 CMS, AT 23.02 M (MSL), AT 1.00 HOURS, ON AUG 18, 1981

RUNOFF YIELD 7.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 15.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 150 METERS UPSTREAM FROM C.7, BAN BANG KAEO, AMPHOE MUANG, ANG THONG.

DRAINAGE AREA — FLOOD PLAIN.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +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 — 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 — 1976-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1976-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 289 DISCHARGE MEASUREMENTS MADE DURING 1976 AND 1978.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

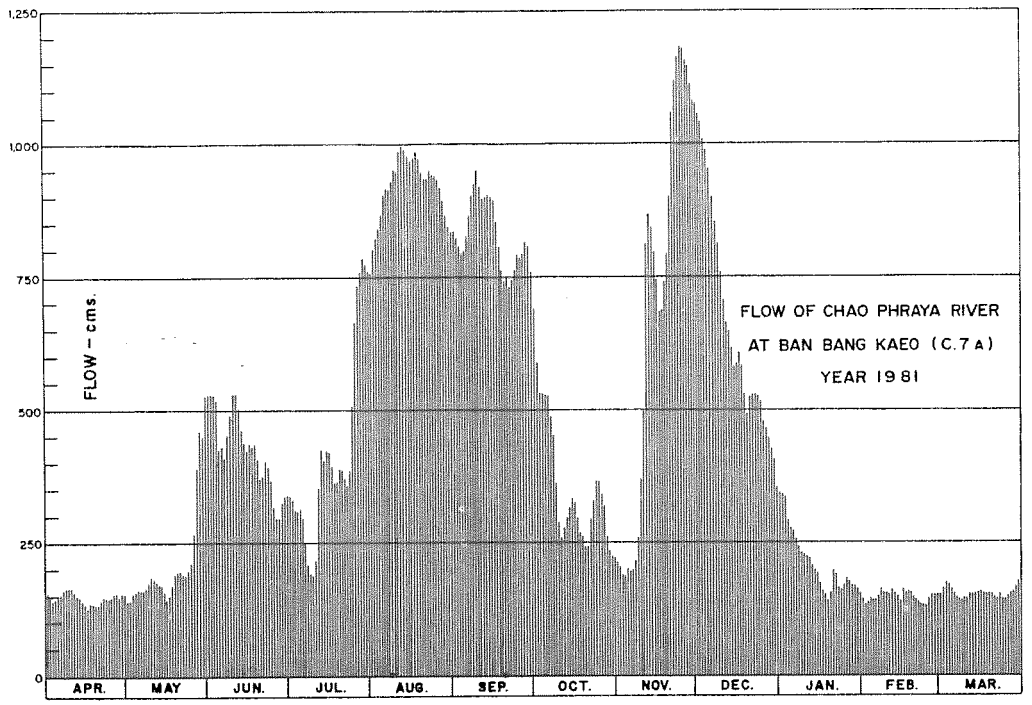
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.74	0.62	3.01	1.93	4.15	4.50	3.87	1.11	5.44	1.95	0.62	0.72	
2	0.69	0.63	3.00	1.90	4.35	4.46	3.34	1.08	5.36	1.95	0.55	0.78	
3	0.60	0.74	3.01	1.78	4.49	4.40	2.99	1.00	5.32	1.92	0.60	0.89	
4	0.67	0.76	2.83	1.76	4.55	4.32	3.01	0.99	5.19	1.64	0.66	0.86	
5	0.70	0.78	2.38	1.82	4.68	4.33	3.01	1.08	5.12	1.59	0.65	0.81	
6	0.73	0.77	2.46	1.68	4.78	4.49	2.98	1.05	4.94	1.54	0.66	0.71	
7	0.80	0.80	2.36	1.35	4.84	4.67	2.81	1.07	4.76	1.45	0.72	0.68	
8	0.80	0.83	2.72	1.13	4.83	4.81	2.60	1.23	4.57	1.33	0.79	0.66	
9	0.82	0.90	2.84	1.03	4.91	4.90	2.12	1.56	4.36	1.27	0.76	0.63	
10	0.81	0.97	3.02	1.00	4.98	4.98	1.67	2.06	4.12	1.24	0.74	0.69	
11	0.73	0.93	3.00	1.32	5.01	4.83	1.47	3.12	3.86	1.22	0.72	0.66	
12	0.71	0.91	2.87	2.10	5.13	4.76	1.59	4.39	3.67	1.22	0.79	0.71	
13	0.65	0.86	2.62	2.44	5.14	4.78	1.75	4.64	3.61	1.11	0.74	0.70	
14	0.63	0.85	2.47	2.33	5.13	4.79	1.83	4.57	3.45	1.04	0.70	0.72	
15	0.57	0.74	2.42	2.43	5.08	4.79	1.93	4.39	3.29	1.01	0.62	0.73	
16	0.52	0.64	2.50	2.41	5.05	4.75	1.86	4.07	3.32	0.86	0.80	0.75	
17	0.59	0.72	2.48	2.20	5.06	4.62	1.68	3.82	3.40	0.75	0.74	0.72	
18	0.59	0.86	2.49	2.06	5.13	4.41	1.49	3.83	3.26	0.71	0.75	0.73	
19	0.58	1.00	2.34	2.10	5.06	4.18	1.48	4.24	2.85	0.65	0.74	0.73	
20	0.57	1.04	2.13	2.23	4.98	4.08	1.34	4.39	2.80	0.77	0.66	0.71	
21	0.66	1.05	2.16	2.22	4.91	4.11	1.37	4.90	3.00	1.04	0.62	0.69	
22	0.70	0.98	2.32	2.10	4.92	4.04	1.71	5.40	3.01	1.03	0.59	0.65	
23	0.66	1.01	2.26	2.01	4.98	4.11	1.93	5.63	3.01	0.80	0.57	0.72	
24	0.67	1.06	2.08	2.43	4.95	4.22	2.10	5.72	2.97	0.79	0.56	0.65	
25	0.67	1.17	1.81	3.25	4.94	4.31	2.11	5.77	2.91	0.85	0.55	0.63	
26	0.73	1.45	1.69	3.83	4.92	4.28	1.94	5.77	2.69	0.96	0.65	0.68	
27	0.74	2.15	1.69	4.04	4.83	4.35	1.79	5.70	2.65	0.89	0.71	0.71	
28	0.68	2.64	1.85	4.20	4.75	4.41	1.49	5.67	2.53	0.83	0.71	0.75	
29	0.74	2.55	1.94	4.27	4.65	4.37	1.25	5.59	2.41	0.84		0.84	
30	0.73	2.81	1.95	4.22	4.54	4.20	1.23	5.48	2.30	0.80		0.90	
31		3.00		4.15	4.50		1.20		2.03	0.76		0.85	
MEAN	0.68	1.17	2.42	2.38	4.85	4.47	2.03	3.64	3.62	1.12	0.68	0.73	
MAX	0.82	3.00	3.02	4.27	5.14	4.98	3.87	5.77	5.44	1.95	0.80	0.90	5.77
MIN	0.52	0.62	1.69	1.00	4.15	4.04	1.20	0.99	2.03	0.65	0.55	0.63	0.52

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.78 M (MSL), AT 6.00 HOURS, ON NOV 26, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (MSL), RIVER BED -4.51 M (MSL)

LEFT BANK ELEVATION — 7.10 M (MSL)

RIGHT BANK ELEVATION — 6.20 M (MSL), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	155.2	139.6	529.9	339.1	759.0	837.0	697.7	206.5	1073.6	342.5	139.6	152.6	
2	148.7	140.9	528.0	334.0	803.0	827.8	592.6	202.0	1050.8	342.5	131.0	160.4	
3	137.0	155.2	529.9	313.6	834.7	814.0	526.1	190.0	1039.6	337.4	137.0	174.7	
4	146.1	157.8	496.4	310.2	848.5	796.4	529.9	188.6	1004.4	289.8	144.8	170.8	
5	150.0	160.4	415.6	320.4	879.2	798.6	529.9	202.0	986.2	281.3	143.5	164.3	
6	153.9	159.1	429.8	296.6	903.2	834.7	524.2	197.5	941.6	272.8	144.8	151.3	
7	163.0	163.0	412.2	242.5	917.6	876.8	492.8	200.5	898.4	258.0	152.6	147.4	
8	163.0	166.9	476.6	209.5	915.2	910.4	455.0	224.5	853.1	239.5	161.7	144.8	
9	165.6	176.0	498.2	194.5	934.4	932.0	371.4	276.2	805.2	230.5	157.8	140.9	
10	164.3	185.8	531.8	190.0	951.2	951.2	294.9	361.2	752.4	226.0	155.2	148.7	
11	153.9	180.2	528.0	238.0	958.5	915.2	261.2	550.8	695.6	223.0	152.6	144.8	
12	151.3	177.4	503.6	368.0	988.8	898.4	281.3	811.8	656.0	223.0	161.7	151.3	
13	143.5	170.8	458.6	426.2	991.4	903.2	308.5	869.6	644.0	206.5	155.2	150.0	
14	140.9	169.5	431.6	407.1	988.8	905.6	322.1	853.1	613.5	196.0	150.0	152.6	
15	133.4	155.2	422.6	424.4	976.0	905.6	339.1	811.8	583.1	191.5	139.6	153.9	
16	127.4	142.2	437.0	420.8	968.5	896.0	327.2	741.4	588.8	170.8	163.0	156.5	
17	135.8	152.6	433.4	385.0	971.0	864.8	296.6	687.2	604.0	156.5	155.2	152.6	
18	135.8	170.8	435.2	361.2	988.8	816.3	264.4	689.3	577.4	151.3	156.5	153.9	
19	134.6	190.0	408.8	368.0	971.0	765.6	262.8	778.8	500.0	143.5	155.2	153.9	
20	133.4	196.0	373.1	390.1	951.2	743.6	241.0	811.8	491.0	159.1	144.8	151.3	
21	144.8	197.5	378.2	388.4	934.4	750.2	245.5	932.0	528.0	196.0	139.6	148.7	
22	150.0	187.2	405.4	368.0	936.8	734.8	301.7	1062.0	529.9	194.5	135.8	143.5	
23	144.8	191.5	395.2	352.7	951.2	750.2	339.1	1132.2	529.9	163.0	133.4	152.6	
24	146.1	199.0	364.6	424.4	944.0	774.4	368.0	1163.6	522.3	161.7	132.2	143.5	
25	146.1	215.5	318.7	575.5	941.6	794.2	369.7	1182.6	510.9	169.5	131.0	140.9	
26	153.9	258.0	298.3	689.3	936.8	787.6	340.8	1182.6	471.2	184.4	143.5	147.4	
27	155.2	376.5	298.3	734.8	915.2	803.0	315.3	1156.0	464.0	174.7	151.3	151.3	
28	147.4	462.2	325.5	770.0	896.0	816.3	264.4	1145.8	442.4	166.9	151.3	156.5	
29	155.2	446.0	340.8	785.4	872.0	807.4	227.5	1118.9	420.8	168.2		168.2	
30	153.9	492.8	342.5	774.4	846.2	770.0	224.5	1085.2	402.0	163.0		176.0	
31		528.0		759.0	837.0		220.0		356.1	157.8		169.5	
TOTAL	4434.2	6863.6	12747.8	13161.1	28511.2	24981.3	11135.2	21015.5	20536.2	6541.2	4119.9	4774.8	158821.8 CMSDAY
MEAN	147.8	221.4	424.9	424.6	919.7	832.7	359.2	700.5	662.5	211.0	147.1	154.0	435.1 CMS
MAX	165.6	528.0	531.8	785.4	991.4	951.2	697.7	1182.6	1073.6	342.5	163.0	176.0	1182.6 CMS
MIN	127.4	139.6	298.3	190.0	759.0	734.8	220.0	188.6	356.1	143.5	131.0	140.9	127.4 CMS
RUNOFF	383.11	593.01	1101.41	1137.12	2463.37	2158.38	962.08	1815.74	1774.33	565.16	355.96	412.54	13722.20 MCM

MOMENTARY PEAK 1186.40 CMS, AT 5.78 M (MSL), AT 6.00 HOURS, ON NOV 26, 1981

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

WATER YEAR 1981

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, CHAI NAT.

DRAINAGE AREA — 120,693 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +6.00 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

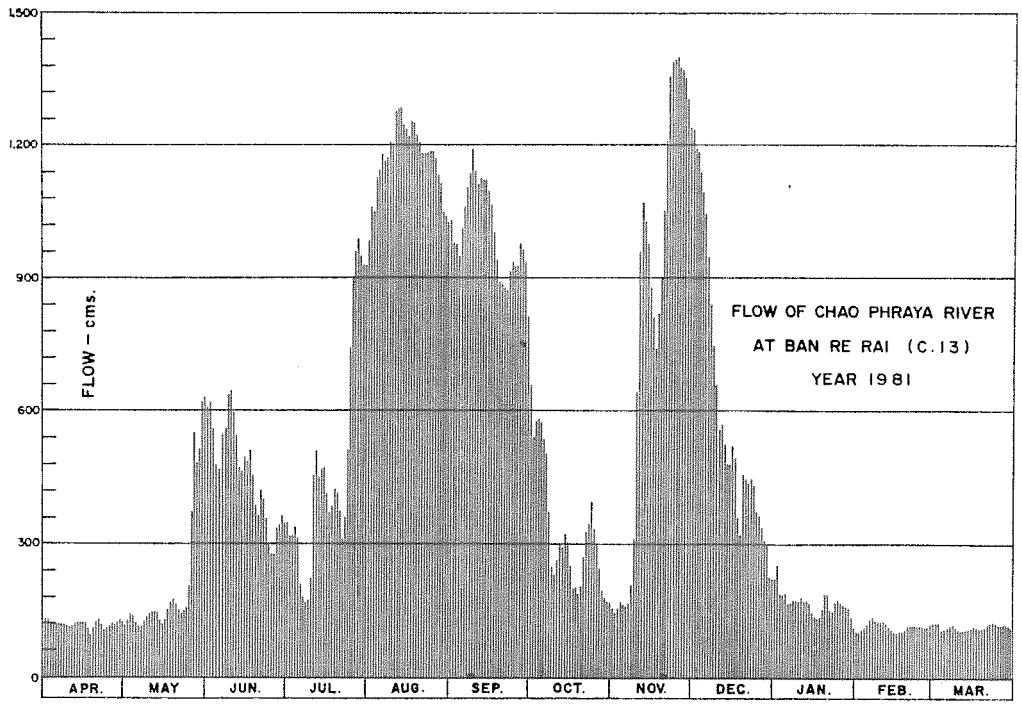
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 76 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY CHAO PHRAYA DIVERSION DAM AT ABOVE GAGE SITE WHICH DIVERTED FOR IRRIGATION OF ABOUT 979,000 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	7.22	7.08	9.69	8.55	11.00	11.16	9.95	7.38	11.81	7.86	6.97	7.12	
2	7.20	7.23	9.74	8.39	11.26	10.98	9.43	7.29	11.68	8.03	6.94	7.17	
3	7.10	7.29	9.55	8.38	11.23	10.98	9.56	7.41	11.65	7.59	7.04	7.14	
4	7.10	7.23	9.17	8.51	11.48	10.88	9.59	7.47	11.51	7.60	7.07	7.01	
5	7.10	7.10	9.06	8.34	11.54	11.08	9.55	7.44	11.33	7.63	7.07	7.00	
6	7.10	7.05	9.19	7.82	11.64	11.28	9.40	7.42	11.16	7.47	7.20	7.04	
7	7.10	7.06	9.44	7.54	11.58	11.40	9.24	7.49	10.85	7.46	7.25	7.05	
8	7.11	7.17	9.52	7.49	11.62	11.52	8.69	7.80	10.55	7.52	7.22	7.13	
9	7.08	7.25	9.80	7.52	11.73	11.68	7.98	8.48	10.26	7.52	7.14	7.10	
10	7.05	7.32	9.83	7.90	11.71	11.53	7.90	9.99	9.88	7.52	7.14	7.02	
11	7.07	7.34	9.58	9.05	11.91	11.44	8.08	11.02	9.49	7.57	7.18	7.00	
12	7.10	7.35	9.36	9.29	11.95	11.48	8.30	11.29	9.54	7.52	7.14	7.00	
13	7.15	7.32	9.12	9.03	11.95	11.45	8.25	11.21	9.37	7.51	7.04	7.01	
14	7.15	7.16	9.07	9.08	11.84	11.45	8.41	11.00	9.15	7.48	7.00	7.02	
15	7.13	7.11	9.23	9.11	11.82	11.37	8.33	10.68	9.15	7.37	6.99	7.03	
16	7.14	7.23	9.18	8.86	11.76	11.29	8.03	10.36	9.34	7.27	6.94	7.08	
17	7.02	7.39	9.30	8.66	11.86	11.09	7.69	10.17	9.27	7.21	6.93	7.07	
18	6.95	7.49	8.96	8.75	11.85	10.84	7.73	10.61	8.55	7.23	6.99	7.06	
19	7.02	7.52	8.75	8.91	11.75	10.69	7.59	10.72	8.42	7.41	6.99	7.05	
20	7.17	7.47	8.63	8.86	11.73	10.69	7.75	11.20	9.05	7.63	7.07	7.05	
21	7.19	7.34	8.89	8.67	11.65	10.65	8.25	11.82	9.02	7.62	7.09	7.08	
22	7.05	7.31	8.81	8.34	11.65	10.62	8.44	12.16	8.95	7.34	7.01	7.15	
23	7.01	7.32	8.55	8.61	11.65	10.79	8.55	12.24	9.01	7.33	7.01	7.17	
24	7.06	7.41	8.26	9.61	11.66	10.85	8.77	12.26	8.92	7.47	7.00	7.16	
25	7.09	7.81	8.14	10.44	11.66	10.81	8.49	12.28	8.64	7.56	7.00	7.10	
26	7.13	8.80	8.16	10.73	11.60	10.83	8.31	12.20	8.63	7.48	6.99	7.09	
27	7.11	9.46	8.47	10.94	11.49	10.98	7.89	12.19	8.48	7.45	7.00	7.12	
28	7.15	9.20	8.52	11.02	11.44	10.94	7.62	12.13	8.32	7.43	7.06	7.16	
29	7.20	9.49	8.62	10.89	11.23	10.85	7.57	11.96	8.26	7.40		7.10	
30	7.13	9.71	8.54	10.83	11.20	10.52	7.50	11.82	7.83	7.24		7.05	
31		9.79		10.83	11.14		7.50		7.83	7.08		7.03	
MEAN	7.11	7.70	9.04	9.06	11.60	11.07	8.40	10.25	9.55	7.48	7.05	7.08	
MAX	7.22	9.79	9.83	11.02	11.95	11.68	9.95	12.28	11.81	8.03	7.25	7.17	12.28
MIN	6.95	7.05	8.14	7.49	11.00	10.52	7.50	7.29	7.83	7.08	6.93	7.00	6.93

ANNUAL MAX MOMENTARY GAGE HEIGHT 12.34 M (MSL), AT 6.00 HOURS, ON NOV 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 6.00 M (MSL), RIVER BED 1.67 M (MSL)
LEFT BANK ELEVATION 15.80 M (MSL)
RIGHT BANK ELEVATION 16.65 M (MSL), DRAINAGE AREA 120693. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	131.	114.	609.	347.	980.	1028.	679.	152.	1234.	222.	102.	119.	
2	128.	132.	622.	316.	1059.	974.	540.	140.	1191.	250.	99.	125.	
3	116.	140.	572.	314.	1049.	974.	574.	156.	1181.	181.	110.	121.	
4	116.	132.	480.	339.	1127.	944.	582.	164.	1137.	182.	113.	106.	
5	116.	116.	456.	307.	1146.	1004.	572.	160.	1080.	186.	113.	105.	
6	116.	111.	484.	215.	1178.	1065.	532.	158.	1028.	164.	128.	110.	
7	116.	112.	543.	174.	1159.	1102.	495.	167.	935.	163.	135.	111.	
8	118.	125.	564.	167.	1172.	1140.	376.	212.	848.	171.	131.	120.	
9	114.	135.	638.	171.	1207.	1191.	242.	334.	765.	171.	121.	116.	
10	111.	144.	646.	228.	1201.	1143.	228.	690.	660.	171.	121.	107.	
11	113.	147.	580.	454.	1269.	1115.	259.	986.	556.	178.	126.	105.	
12	116.	148.	523.	507.	1282.	1127.	299.	1068.	569.	171.	121.	105.	
13	122.	144.	469.	449.	1282.	1118.	290.	1043.	525.	170.	110.	106.	
14	122.	123.	458.	460.	1244.	1118.	320.	980.	475.	166.	105.	107.	
15	120.	118.	493.	467.	1237.	1093.	305.	885.	475.	151.	104.	108.	
16	121.	132.	482.	413.	1217.	1068.	250.	794.	518.	137.	99.	114.	
17	107.	154.	509.	370.	1251.	1007.	196.	740.	502.	129.	98.	113.	
18	100.	167.	434.	389.	1247.	932.	202.	865.	347.	132.	104.	112.	
19	107.	171.	389.	424.	1214.	888.	181.	897.	322.	156.	104.	111.	
20	125.	164.	363.	413.	1207.	888.	205.	1040.	454.	186.	113.	111.	
21	127.	147.	419.	372.	1181.	877.	290.	1237.	447.	185.	115.	114.	
22	111.	143.	402.	307.	1181.	868.	326.	1356.	432.	147.	106.	122.	
23	106.	144.	347.	359.	1181.	917.	347.	1384.	445.	146.	106.	125.	
24	112.	156.	291.	588.	1185.	935.	394.	1391.	426.	164.	105.	123.	
25	115.	214.	270.	816.	1185.	923.	336.	1398.	366.	177.	105.	116.	
26	120.	400.	273.	900.	1165.	929.	301.	1370.	363.	166.	104.	115.	
27	118.	548.	332.	962.	1130.	974.	227.	1366.	334.	162.	105.	119.	
28	122.	486.	341.	986.	1115.	962.	185.	1345.	303.	159.	112.	123.	
29	128.	556.	361.	947.	1049.	935.	178.	1286.	291.	155.		116.	
30	120.	614.	345.	929.	1040.	839.	169.	1237.	217.	133.		111.	
31		635.		929.	1022.		169.		217.	114.		108.	
TOTAL	3514.	6772.	13695.	15019.	36162.	30078.	10249.	25001.	18643.	5145.	3115.	3524.	170917. CMSDAY
MEAN	117.	218.	457.	484.	1167.	1003.	331.	833.	601.	166.	111.	114.	468. CMS
MAX	131.	635.	646.	986.	1282.	1191.	679.	1398.	1234.	250.	135.	125.	1398. CMS
MIN	100.	111.	270.	167.	980.	839.	169.	140.	217.	114.	98.	105.	98. CMS
RUNOFF	303.6	585.1	1183.2	1297.6	3124.4	2598.7	885.5	2160.1	1610.8	444.5	269.1	304.5	14767.2 MCM

MOMENTARY PEAK 1419.00 CMS, AT 12.34 M (MSL), AT 6.00 HOURS, ON NOV 24, 1981

RUNOFF YIELD 3.88 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 11.76 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 — 1,382 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK DOWNSTREAM AT THE FOOT OF THE BRIDGE.

ELEVATION — +5.322 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 — 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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.21 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 137 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — MAX MOMENTARY PEAK FROM FLOOD MARK.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

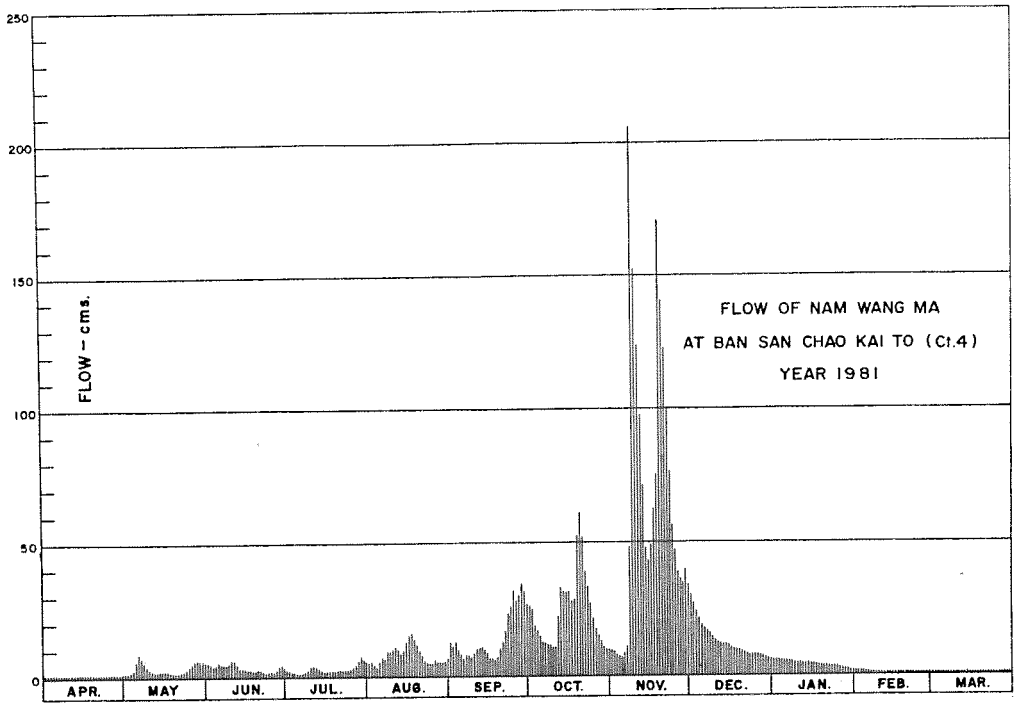
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.87	1.25	0.98	1.26	1.81	2.56	1.64	2.76	1.35	0.92	0.76	
2	0.61	0.87	1.19	0.95	1.32	1.68	2.54	1.61	2.62	1.34	0.93	0.74	
3	0.61	0.91	1.13	0.88	1.22	1.84	2.19	1.52	2.49	1.34	0.95	0.75	
4	0.61	0.93	1.27	0.80	1.07	1.63	2.13	1.46	2.34	1.33	0.91	0.75	
5	0.60	1.32	1.32	0.78	1.26	1.48	2.01	1.45	2.23	1.32	0.90	0.74	
6	0.61	1.53	1.27	0.85	1.42	1.39	1.85	1.50	2.17	1.31	0.90	0.73	
7	0.62	1.40	1.21	0.88	1.43	1.46	1.79	1.72	2.10	1.29	0.89	0.71	
8	0.61	1.26	1.23	0.91	1.56	1.44	1.78	3.43	2.02	1.27	0.86	0.70	
9	0.60	1.13	1.27	0.95	1.54	1.40	1.74	5.62	1.96	1.25	0.85	0.69	
10	0.60	1.06	1.37	1.12	1.63	1.52	1.70	5.27	1.86	1.25	0.84	0.70	
11	0.60	0.96	1.37	1.19	1.71	1.66	1.71	5.10	1.86	1.25	0.82	0.70	
12	0.63	0.96	1.23	1.16	1.63	1.68	2.24	4.81	1.78	1.22	0.79	0.70	
13	0.66	0.97	1.04	1.06	1.52	1.64	2.87	4.14	1.70	1.19	0.79	0.72	
14	0.65	0.95	1.10	0.98	1.65	1.60	2.77	3.54	1.77	1.23	0.79	0.75	
15	0.68	0.96	1.03	0.90	1.84	1.43	2.82	3.31	1.74	1.20	0.82	0.74	
16	0.73	1.00	1.03	0.91	1.99	1.38	2.80	3.44	1.69	1.19	0.82	0.74	
17	0.74	0.95	1.01	0.93	2.05	1.38	2.64	3.87	1.64	1.15	0.84	0.71	
18	0.72	0.91	1.00	0.95	1.94	1.31	2.70	4.42	1.62	1.15	0.85	0.70	
19	0.71	0.87	0.99	0.98	1.78	1.36	3.58	5.45	1.60	1.13	0.85	0.71	
20	0.71	0.90	1.00	0.97	1.62	1.66	4.04	5.26	1.57	1.13	0.84	0.69	
21	0.72	0.90	0.94	0.98	1.46	1.79	3.73	5.11	1.55	1.13	0.82	0.68	
22	0.72	0.95	0.85	0.98	1.31	2.03	3.24	4.88	1.52	1.12	0.81	0.69	
23	0.72	0.90	0.89	0.98	1.28	2.42	2.96	4.42	1.46	1.10	0.80	0.67	
24	0.71	1.05	0.94	0.98	1.23	2.50	2.63	3.82	1.45	1.10	0.80	0.66	
25	0.71	1.10	0.97	1.00	1.29	2.84	2.37	3.40	1.48	1.08	0.80	0.68	
26	0.71	1.21	0.93	1.08	1.35	2.65	2.17	3.14	1.46	1.06	0.79	0.70	
27	0.72	1.31	0.96	1.17	1.30	2.72	2.03	3.06	1.46	1.04	0.79	0.75	
28	0.71	1.35	1.11	1.30	1.25	2.95	1.89	2.96	1.45	0.97	0.79	0.77	
29	0.72	1.34	1.15	1.42	1.27	2.84	1.72	3.15	1.43	0.96		0.78	
30	0.80	1.32	1.09	1.33	1.37	2.62	1.67	3.01	1.38	0.94		0.75	
31		1.29		1.32	1.41		1.61		1.35	0.91		0.76	
MEAN	0.67	1.08	1.10	1.02	1.48	1.87	2.40	3.52	1.79	1.17	0.84	0.72	
MAX	0.80	1.53	1.37	1.42	2.05	2.95	4.04	5.62	2.76	1.35	0.95	0.78	5.62
MIN	0.60	0.87	0.85	0.78	1.07	1.31	1.61	1.45	1.35	0.91	0.79	0.66	0.60

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.79 M (A.D), AT ***** HOURS, ON NOV 9, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 1382 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.82	4.50	1.80	4.60	12.04	25.52	9.66	30.08	5.65	1.20	0.32	
2	0.02	0.82	3.90	1.50	5.26	10.22	25.08	9.24	26.86	5.52	1.30	0.28	
3	0.02	1.10	3.30	0.88	4.20	12.46	18.23	7.98	24.00	5.52	1.50	0.30	
4	0.02	1.30	4.70	0.40	2.70	9.52	17.21	7.14	21.00	5.39	1.10	0.30	
5	0.00	5.26	5.26	0.36	4.60	7.42	15.17	7.00	18.94	5.26	1.00	0.28	
6	0.02	8.12	4.70	0.70	6.58	6.17	12.60	7.70	17.89	5.13	1.00	0.26	
7	0.04	6.30	4.10	0.88	6.72	7.14	11.76	10.78	16.70	4.90	0.94	0.22	
8	0.02	4.60	4.30	1.10	8.54	6.86	11.62	45.75	15.34	4.70	0.76	0.20	
9	0.00	3.30	4.70	1.50	8.26	6.30	11.06	206.80	14.32	4.50	0.70	0.18	
10	0.00	2.60	5.91	3.20	9.52	7.98	10.50	142.80	12.74	4.50	0.64	0.20	
11	0.00	1.60	5.91	3.90	10.64	9.94	10.64	122.00	12.74	4.50	0.52	0.20	
12	0.06	1.60	4.30	3.60	9.52	10.22	19.12	95.80	11.62	4.20	0.38	0.20	
13	0.12	1.70	2.40	2.60	7.98	9.66	32.61	64.70	10.50	3.90	0.38	0.24	
14	0.10	1.50	3.00	1.80	9.80	9.10	30.31	48.50	11.48	4.30	0.38	0.30	
15	0.16	1.60	2.30	1.00	12.46	6.72	31.46	42.75	11.06	4.00	0.52	0.28	
16	0.26	2.00	2.30	1.10	14.83	6.04	31.00	46.00	10.36	3.90	0.52	0.28	
17	0.28	1.50	2.10	1.30	15.85	6.04	27.32	57.19	9.66	3.50	0.64	0.22	
18	0.24	1.10	2.00	1.50	13.98	5.13	28.70	74.80	9.38	3.50	0.70	0.20	
19	0.22	0.82	1.90	1.80	11.62	5.78	49.50	170.50	9.10	3.30	0.70	0.22	
20	0.22	1.00	2.00	1.70	9.38	9.94	61.82	141.40	8.68	3.30	0.64	0.18	
21	0.24	1.00	1.40	1.80	7.14	11.76	53.41	123.10	8.40	3.30	0.52	0.16	
22	0.24	1.50	0.70	1.80	5.13	15.51	41.12	101.40	7.98	3.20	0.46	0.18	
23	0.24	1.00	0.94	1.80	4.80	22.60	34.68	74.80	7.14	3.00	0.40	0.14	
24	0.22	2.50	1.40	1.80	4.30	24.20	27.09	55.64	7.00	3.00	0.40	0.12	
25	0.22	3.00	1.70	2.00	4.90	31.92	21.60	45.00	7.42	2.80	0.40	0.16	
26	0.22	4.10	1.30	2.80	5.65	27.55	17.89	38.82	7.14	2.60	0.38	0.20	
27	0.24	5.13	1.60	3.70	5.00	29.16	15.51	36.98	7.14	2.40	0.38	0.30	
28	0.22	5.65	3.10	5.00	4.50	34.45	13.16	34.68	7.00	1.70	0.38	0.34	
29	0.24	5.52	3.50	6.58	4.70	31.92	10.78	39.05	6.72	1.60		0.36	
30	0.40	5.26	2.90	5.39	5.91	26.86	10.08	35.83	6.04	1.40		0.30	
31		4.90		5.26	6.44		9.24		5.65	1.10		0.32	
TOTAL	4.34	88.20	92.12	70.55	235.51	420.61	735.79	1903.99	380.08	115.57	18.84	7.44	4073.04 CMSDAY
MEAN	0.14	2.85	3.07	2.28	7.60	14.02	23.74	63.47	12.26	3.73	0.67	0.24	11.16 CMS
MAX	0.40	8.12	5.91	6.58	15.85	34.45	61.82	206.80	30.08	5.65	1.50	0.36	206.80 CMS
MIN	0.00	0.82	0.70	0.36	2.70	5.13	9.24	7.00	5.65	1.10	0.38	0.12	0.00 CMS
RUNOFF	0.375	7.620	7.959	6.096	20.348	36.341	63.572	164.505	32.839	9.985	1.628	0.643	351.910 MCM

MOMENTARY PEAK 260.60 CMS, AT 5.79 M (A.D), AT ***** HOURS, ON NOV 9, 1981

RUNOFF YIELD 8.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 188.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 — 833 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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 — 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 — 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — RECORDS POOR FOR MAX MOMENTARY PEAK AND NO RECORDS DURING NOV.8-9 AND 18-21,1981

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

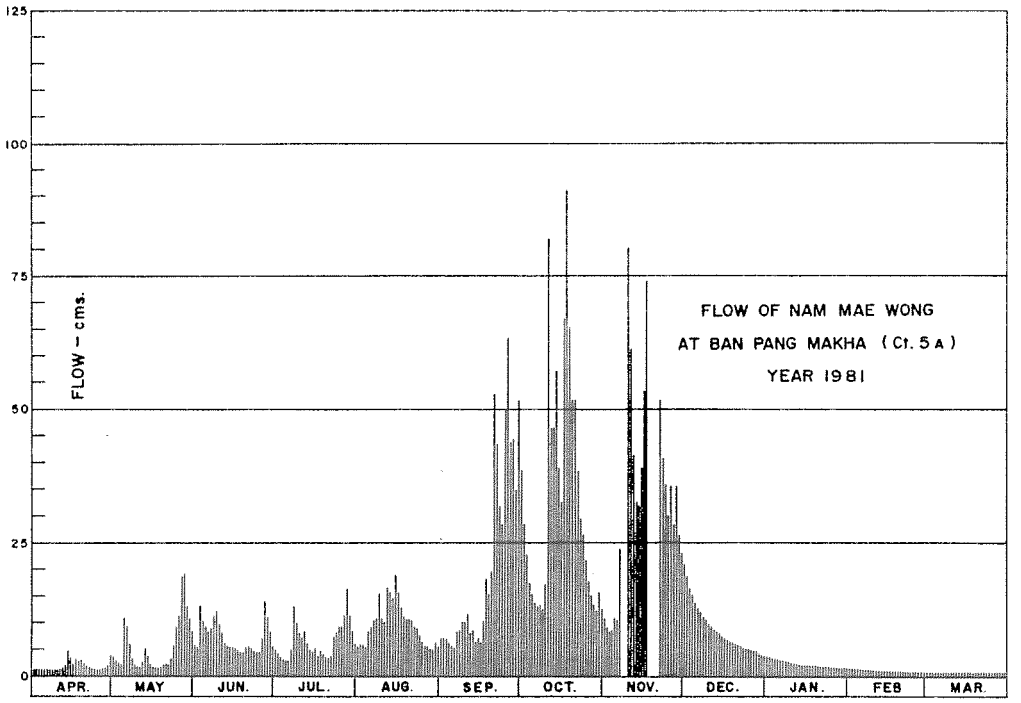
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.42	0.56	0.64	0.61	0.65	0.71	1.37	0.81	1.04	0.57	0.46	0.37	
2	0.42	0.53	0.64	0.58	0.66	0.70	1.19	0.76	0.99	0.56	0.45	0.37	
3	0.42	0.51	0.87	0.56	0.66	0.70	1.07	0.74	0.94	0.55	0.45	0.37	
4	0.41	0.50	0.79	0.54	0.64	0.67	0.97	0.75	0.91	0.55	0.45	0.37	
5	0.41	0.81	0.76	0.53	0.74	0.65	0.92	0.81	0.88	0.54	0.44	0.37	
6	0.41	0.76	0.74	0.54	0.77	0.64	0.88	0.80	0.86	0.54	0.44	0.37	
7	0.41	0.67	0.76	0.63	0.80	0.75	0.86	1.10	0.83	0.53	0.43	0.37	
8	0.41	0.56	0.82	0.86	0.81	0.75	0.88	*******	0.81	0.53	0.43	0.36	
9	0.41	0.50	0.84	0.78	0.92	0.79	0.85	*******	0.80	0.52	0.42	0.36	
10	0.42	0.47	0.80	0.74	0.79	0.79	0.96	1.93	0.78	0.52	0.42	0.35	
11	0.42	0.46	0.71	0.70	0.79	0.83	1.95	1.63	0.77	0.51	0.41	0.35	
12	0.44	0.53	0.67	0.74	0.94	0.74	1.48	1.41	0.74	0.51	0.41	0.34	
13	0.50	0.63	0.65	0.65	0.93	0.75	1.48	1.26	0.73	0.51	0.41	0.34	
14	0.61	0.58	0.64	0.61	0.90	0.68	1.63	1.25	0.73	0.51	0.41	0.35	
15	0.55	0.49	0.63	0.60	1.00	0.71	1.36	1.38	0.72	0.50	0.41	0.34	
16	0.51	0.46	0.63	0.65	0.92	0.68	1.26	1.58	0.70	0.50	0.41	0.34	
17	0.54	0.45	0.61	0.57	0.87	0.79	1.90	1.85	0.69	0.50	0.41	0.33	
18	0.52	0.44	0.59	0.61	0.82	0.98	2.06	*******	0.68	0.50	0.41	0.33	
19	0.53	0.47	0.59	0.53	0.80	0.92	1.78	*******	0.67	0.49	0.41	0.33	
20	0.50	0.49	0.63	0.57	0.80	1.02	1.55	*******	0.66	0.49	0.40	0.33	
21	0.47	0.51	0.64	0.55	0.79	1.57	1.55	*******	0.65	0.48	0.39	0.39	
22	0.46	0.51	0.63	0.57	0.76	1.43	1.40	1.56	0.64	0.48	0.39	0.36	
23	0.44	0.56	0.60	0.71	0.76	1.24	1.23	1.40	0.63	0.48	0.39	0.36	
24	0.43	0.68	0.59	0.73	0.72	1.19	1.14	1.31	0.63	0.46	0.38	0.35	
25	0.41	0.78	0.60	0.76	0.68	1.54	1.08	1.22	0.62	0.47	0.38	0.35	
26	0.40	0.83	0.69	0.77	0.65	1.78	0.96	1.31	0.61	0.47	0.38	0.35	
27	0.44	0.98	0.88	0.83	0.65	1.44	0.92	1.19	0.60	0.47	0.38	0.35	
28	0.44	1.00	0.82	0.94	0.63	1.45	0.87	1.31	0.60	0.47	0.37	0.35	
29	0.50	0.83	0.73	0.80	0.62	1.30	0.84	1.19	0.59	0.46		0.34	
30	0.57	0.81	0.64	0.73	0.68	1.55	0.92	1.10	0.58	0.46		0.34	
31		0.72		0.66	0.65		0.85		0.57	0.46		0.34	
MEAN	0.46	0.62	0.69	0.67	0.77	0.99	1.23	*******	0.73	0.50	0.41	0.35	
MAX	0.61	1.00	0.88	0.94	1.00	1.78	2.06	1.93	1.04	0.57	0.46	0.39	2.06
MIN	0.40	0.44	0.59	0.53	0.62	0.64	0.84	*******	0.57	0.46	0.37	0.33	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.25 M (A.D), AT 0.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 833 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	3.50	5.50	4.75	5.75	7.35	39.20	10.90	21.00	3.75	1.60	0.85	
2	1.20	2.75	5.50	4.00	6.00	7.00	28.50	9.10	18.55	3.50	1.50	0.85	
3	1.20	2.25	13.30	3.50	6.00	7.00	22.50	8.40	16.30	3.25	1.50	0.85	
4	1.10	2.00	10.15	3.00	5.50	6.25	17.65	8.75	14.95	3.25	1.50	0.85	
5	1.10	10.90	9.10	2.75	8.40	5.75	15.40	10.90	13.70	3.00	1.40	0.85	
6	1.10	9.10	8.40	3.00	9.45	5.50	13.70	10.50	12.90	3.00	1.40	0.85	
7	1.10	6.25	9.10	5.25	10.50	8.75	12.90	24.00	11.70	2.75	1.30	0.85	
8	1.10	3.50	11.30	12.90	10.90	8.75	13.70	*******	10.90	2.75	1.30	0.80	
9	1.10	2.00	12.10	9.80	15.40	10.15	12.50	*******	10.50	2.50	1.20	0.80	
10	1.20	1.70	10.50	8.40	10.15	10.15	17.20	80.40	9.80	2.50	1.20	0.75	
11	1.20	1.60	7.35	7.00	10.15	11.70	82.00	57.10	9.45	2.25	1.10	0.75	
12	1.40	2.75	6.25	8.40	16.30	8.40	46.60	41.70	8.40	2.25	1.10	0.70	
13	2.00	5.25	5.75	5.75	15.85	8.75	46.60	32.60	8.05	2.25	1.10	0.70	
14	4.75	4.00	5.50	4.75	14.50	6.50	57.10	32.00	8.05	2.25	1.10	0.75	
15	3.25	1.90	5.25	4.50	19.00	7.35	38.60	39.80	7.70	2.00	1.10	0.70	
16	2.25	1.60	5.25	5.75	15.40	6.50	32.60	53.60	7.00	2.00	1.10	0.70	
17	3.00	1.50	4.75	3.75	13.30	10.15	78.00	74.00	6.75	2.00	1.10	0.65	
18	2.50	1.40	4.25	4.75	11.30	18.10	91.40	*******	6.50	2.00	1.10	0.65	
19	2.75	1.70	4.25	4.00	10.50	15.40	68.40	*******	6.25	1.90	1.10	0.65	
20	2.00	1.90	5.25	3.75	10.50	20.00	51.50	*******	6.00	1.90	1.00	0.65	
21	1.70	2.25	5.50	3.25	10.15	52.90	51.50	*******	5.75	1.80	0.95	0.95	
22	1.60	2.25	5.25	3.75	9.10	43.10	41.00	52.20	5.50	1.80	0.95	0.80	
23	1.40	3.50	4.50	7.35	9.10	31.40	30.80	41.00	5.25	1.80	0.95	0.80	
24	1.30	6.50	4.25	8.05	7.70	28.50	26.00	35.60	5.25	1.80	0.90	0.75	
25	1.10	9.80	4.50	9.10	6.50	50.80	23.00	30.20	5.00	1.70	0.90	0.75	
26	1.00	11.70	6.75	9.45	5.75	68.40	17.20	35.60	4.75	1.70	0.90	0.75	
27	1.40	18.10	13.70	11.70	5.75	43.80	15.40	28.50	4.50	1.70	0.90	0.75	
28	1.40	19.00	11.30	16.30	5.25	44.50	13.30	35.60	4.50	1.70	0.85	0.75	
29	2.00	11.70	8.05	10.50	5.00	35.00	12.10	28.50	4.25	1.60		0.70	
30	3.75	10.90	5.50	8.05	6.50	51.50	15.40	24.00	4.00	1.60		0.70	
31		7.70		6.00	5.75		12.50		3.75	1.60		0.70	
TOTAL	53.15	170.95	218.10	203.25	301.40	639.40	1044.25	*******	266.95	69.85	32.10	23.60	******** CMSDAY
MEAN	1.77	5.51	7.27	6.56	9.72	21.31	33.69	*******	8.61	2.25	1.15	0.76	******* CMS
MAX	4.75	19.00	13.70	16.30	19.00	68.40	91.40	80.40	21.00	3.75	1.60	0.95	91.40 CMS
MIN	1.00	1.40	4.25	2.75	5.00	5.50	12.10	*******	3.75	1.60	0.85	0.65	******* CMS
RUNOFF	4.592	14.770	18.844	17.561	26.041	55.244	90.223	*******	23.064	6.035	2.773	2.039	******** MCM

MOMENTARY PEAK ******** CMS, AT 5.25 M (A.D), AT 0.00 HOURS, ON NOV 8, 1981

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

WATER YEAR 1981

SAKAE KRANG RIVER BASIN

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

LOCATION — LAT. 15°-36'-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 — 398 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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 — 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.22 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW WAS EFFECTED BY THE CONSTRUCTION OF DAM UPSTREAM.

REMARKS — RECORDS POOR FOR GAGE HEIGHT OVER +5.20 M.(A.D.).

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

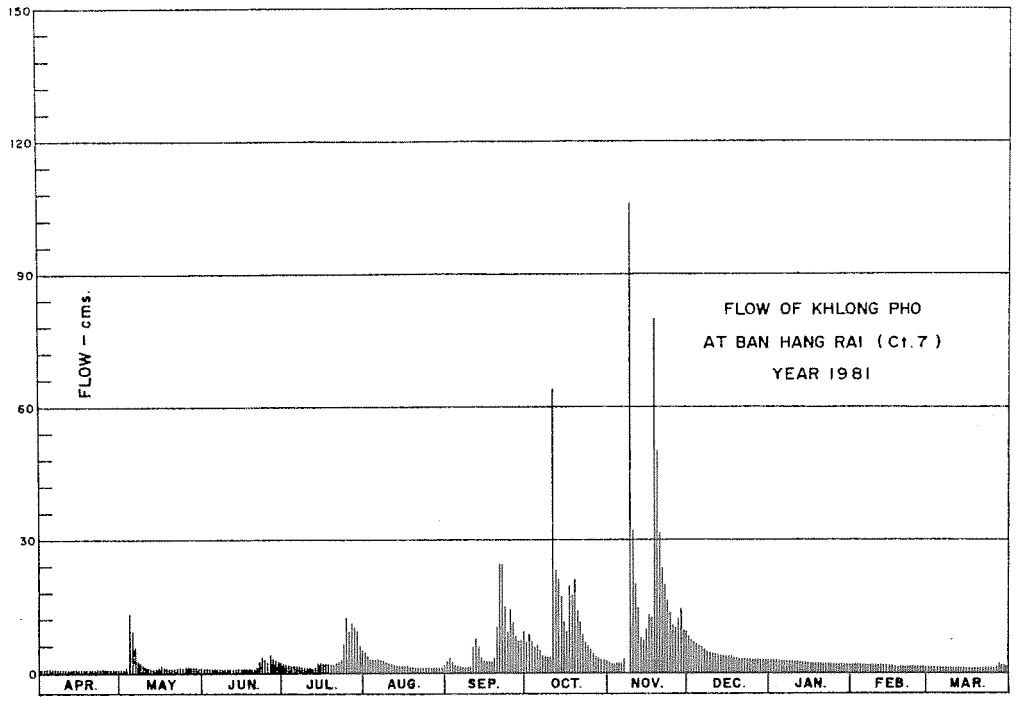
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.42	0.60	0.70	0.89	0.73	1.01	0.73	1.08	0.77	0.68	0.62	
2	0.40	0.53	0.60	0.70	0.84	0.82	1.12	0.71	1.04	0.77	0.68	0.62	
3	0.40	0.62	0.60	0.69	0.78	0.71	1.02	0.69	1.02	0.76	0.68	0.62	
4	0.40	1.32	0.60	0.65	0.75	0.66	0.95	0.70	0.99	0.75	0.68	0.62	
5	0.40	1.14	0.60	0.64	0.80	0.62	1.00	0.73	0.98	0.75	0.68	0.62	
6	0.40	0.94	0.60	0.63	0.76	0.61	0.91	0.70	0.97	0.74	0.67	0.62	
7	0.40	0.78	0.58	0.62	0.80	0.60	0.86	0.82	0.94	0.74	0.67	0.62	
8	0.40	0.69	0.58	0.62	0.76	0.59	0.85	5.20	0.90	0.74	0.67	0.62	
9	0.40	0.65	0.58	0.62	0.74	0.62	0.80	3.21	0.89	0.74	0.67	0.62	
10	0.40	0.61	0.57	0.61	0.73	0.62	0.85	1.91	0.89	0.74	0.67	0.62	
11	0.40	0.58	0.57	0.60	0.71	0.95	2.57	1.51	0.88	0.73	0.66	0.62	
12	0.40	0.57	0.57	0.59	0.67	1.06	1.67	1.27	0.87	0.72	0.65	0.62	
13	0.40	0.57	0.56	0.60	0.67	0.95	1.60	1.07	0.86	0.71	0.65	0.62	
14	0.43	0.60	0.56	0.72	0.65	0.87	1.52	1.04	0.86	0.71	0.65	0.62	
15	0.41	0.60	0.55	0.72	0.65	0.75	1.27	1.20	0.85	0.71	0.65	0.62	
16	0.43	0.64	0.56	0.72	0.65	0.73	1.14	1.30	0.85	0.71	0.65	0.62	
17	0.45	0.60	0.55	0.68	0.65	0.75	1.52	1.29	0.85	0.70	0.65	0.62	
18	0.47	0.58	0.57	0.66	0.62	0.73	1.46	2.83	0.83	0.70	0.65	0.62	
19	0.48	0.58	0.55	0.64	0.60	0.81	1.55	2.56	0.80	0.70	0.65	0.61	
20	0.48	0.57	0.55	0.62	0.59	1.18	1.38	1.97	0.80	0.69	0.65	0.61	
21	0.51	0.57	0.59	0.67	0.58	1.68	1.26	1.67	0.80	0.69	0.64	0.61	
22	0.49	0.57	0.70	0.74	0.58	1.70	1.13	1.51	0.79	0.69	0.64	0.61	
23	0.48	0.59	0.83	0.76	0.58	1.31	1.02	1.39	0.78	0.69	0.64	0.61	
24	0.47	0.60	0.75	0.98	0.57	1.10	0.97	1.31	0.77	0.69	0.64	0.61	
25	0.46	0.60	0.74	1.27	0.56	1.33	0.92	1.21	0.76	0.69	0.63	0.61	
26	0.44	0.62	0.85	1.14	0.55	1.22	0.88	1.20	0.76	0.69	0.63	0.62	
27	0.43	0.62	0.83	1.23	0.54	1.09	0.84	1.30	0.75	0.68	0.63	0.71	
28	0.42	0.62	0.79	1.20	0.54	1.01	0.81	1.35	0.75	0.68	0.63	0.69	
29	0.40	0.61	0.74	1.14	0.53	1.05	0.78	1.16	0.75	0.68		0.68	
30	0.40	0.61	0.72	1.00	0.56	1.13	0.77	1.14	0.75	0.68		0.65	
31		0.61		0.94	0.66		0.75		0.75	0.68		0.65	
MEAN	0.43	0.65	0.63	0.78	0.66	0.93	1.13	1.49	0.86	0.71	0.65	0.63	
MAX	0.51	1.32	0.85	1.27	0.89	1.70	2.57	5.20	1.08	0.77	0.68	0.71	5.20
MIN	0.40	0.42	0.55	0.59	0.53	0.59	0.75	0.69	0.75	0.68	0.63	0.61	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.75 M (A.D), AT 16.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.54 M (A.D)

LEFT BANK ELEVATION 4.69 M (A.D)

RIGHT BANK ELEVATION 4.21 M (A.D), DRAINAGE AREA 398 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.10	1.00	2.00	4.35	2.30	6.70	2.30	8.10	2.70	1.80	1.20	
2	0.00	0.65	1.00	2.00	3.60	3.30	8.90	2.10	7.30	2.70	1.80	1.20	
3	0.00	1.20	1.00	1.90	2.80	2.10	6.90	1.90	6.90	2.60	1.80	1.20	
4	0.00	13.60	1.00	1.50	2.50	1.60	5.50	2.00	6.30	2.50	1.80	1.20	
5	0.00	9.30	1.00	1.40	3.00	1.20	6.50	2.30	6.10	2.50	1.80	1.20	
6	0.00	5.30	1.00	1.30	2.60	1.10	4.70	2.00	5.90	2.40	1.70	1.20	
7	0.00	2.80	0.90	1.20	3.00	1.00	3.90	3.30	5.30	2.40	1.70	1.20	
8	0.00	1.90	0.90	1.20	2.60	0.95	3.75	*******	4.50	2.40	1.70	1.20	
9	0.00	1.50	0.90	1.20	2.40	1.20	3.00	105.70	4.35	2.40	1.70	1.20	
10	0.00	1.10	0.85	1.10	2.30	1.20	3.75	32.42	4.35	2.40	1.70	1.20	
11	0.00	0.90	0.85	1.00	2.10	5.50	64.32	19.30	4.20	2.30	1.60	1.20	
12	0.00	0.85	0.85	0.95	1.70	7.70	24.10	12.25	4.05	2.20	1.50	1.20	
13	0.00	0.85	0.80	1.00	1.70	5.50	22.00	7.90	3.90	2.10	1.50	1.20	
14	0.15	1.00	0.80	2.20	1.50	4.05	19.60	7.30	3.90	2.10	1.50	1.20	
15	0.05	1.00	0.75	2.20	1.50	2.50	12.25	10.50	3.75	2.10	1.50	1.20	
16	0.15	1.40	0.80	2.20	1.50	2.30	9.30	13.00	3.75	2.10	1.50	1.20	
17	0.25	1.00	0.75	1.80	1.50	2.50	19.60	12.75	3.75	2.00	1.50	1.20	
18	0.35	0.90	0.85	1.60	1.20	2.30	17.80	79.95	3.45	2.00	1.50	1.20	
19	0.40	0.90	0.75	1.40	1.00	3.15	20.50	63.76	3.00	2.00	1.50	1.10	
20	0.40	0.85	0.75	1.20	0.95	10.10	15.40	34.94	3.00	1.90	1.50	1.10	
21	0.55	0.85	0.95	1.70	0.90	24.40	12.00	24.10	3.00	1.90	1.40	1.10	
22	0.45	0.85	2.00	2.40	0.90	25.00	9.10	19.30	2.90	1.90	1.40	1.10	
23	0.40	0.95	3.45	2.60	0.90	13.30	6.90	15.70	2.80	1.90	1.40	1.10	
24	0.35	1.00	2.50	6.10	0.85	8.50	5.90	13.30	2.70	1.90	1.40	1.10	
25	0.30	1.00	2.40	12.25	0.80	13.90	4.90	10.75	2.60	1.90	1.30	1.10	
26	0.20	1.20	3.75	9.30	0.75	11.00	4.20	10.50	2.60	1.90	1.30	1.20	
27	0.15	1.20	3.45	11.25	0.70	8.30	3.60	13.00	2.50	1.80	1.30	2.10	
28	0.10	1.20	2.90	10.50	0.70	6.70	3.15	14.50	2.50	1.80	1.30	1.90	
29	0.00	1.10	2.40	9.30	0.65	7.50	2.80	9.70	2.50	1.80		1.80	
30	0.00	1.10	2.20	6.50	0.80	9.10	2.70	9.30	2.50	1.80		1.50	
31		1.10		5.30	1.60		2.50		2.50	1.80		1.50	
TOTAL	4.25	58.65	43.50	107.55	53.35	189.25	336.22	*******	124.95	66.20	43.40	39.30	******** CMSDAY
MEAN	0.14	1.89	1.45	3.47	1.72	6.31	10.85	*******	4.03	2.14	1.55	1.27	******* CMS
MAX	0.55	13.60	3.75	12.25	4.35	25.00	64.32	105.70	8.10	2.70	1.80	2.10	105.70 CMS
MIN	0.00	0.10	0.75	0.95	0.65	0.95	2.50	*******	2.50	1.80	1.30	1.10	******* CMS
RUNOFF	0.367	5.067	3.758	9.292	4.609	16.351	29.049	*******	10.796	5.720	3.750	3.396	******** MCM

MOMENTARY PEAK ******** CMS, AT 5.75 M (A.D), AT 16.00 HOURS, ON NOV 8, 1981
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 — 387 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +4.611 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +3.71 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 133 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

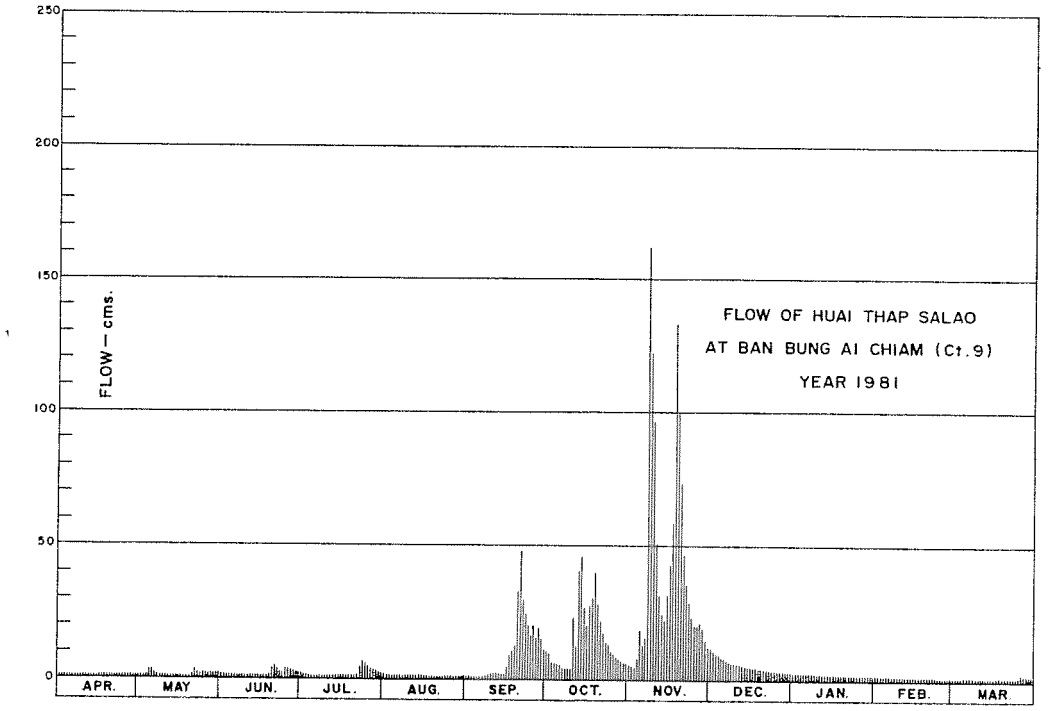
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.51	0.75	0.73	0.73	0.59	1.29	1.03	1.37	0.82	0.67	0.59	
2	0.45	0.50	0.71	0.70	0.72	0.60	1.19	1.00	1.33	0.82	0.67	0.59	
3	0.45	0.50	0.67	0.66	0.70	0.60	1.12	0.97	1.28	0.81	0.67	0.59	
4	0.45	0.53	0.65	0.65	0.68	0.60	1.07	1.29	1.25	0.80	0.66	0.59	
5	0.45	0.88	0.64	0.63	0.68	0.60	1.06	1.65	1.21	0.80	0.66	0.59	
6	0.45	0.86	0.63	0.61	0.68	0.59	1.02	1.37	1.17	0.80	0.66	0.59	
7	0.45	0.73	0.63	0.63	0.67	0.58	0.97	1.61	1.14	0.79	0.66	0.59	
8	0.44	0.66	0.63	0.63	0.67	0.57	0.94	4.63	1.12	0.78	0.65	0.59	
9	0.44	0.62	0.62	0.63	0.67	0.63	0.93	3.94	1.08	0.78	0.65	0.59	
10	0.44	0.60	0.62	0.61	0.65	0.83	0.98	3.19	1.07	0.77	0.65	0.59	
11	0.44	0.59	0.60	0.64	0.64	0.78	1.83	2.52	1.06	0.76	0.65	0.59	
12	0.44	0.63	0.59	0.64	0.64	0.82	1.43	2.11	1.05	0.75	0.64	0.59	
13	0.45	0.62	0.58	0.65	0.64	0.81	2.35	1.85	1.03	0.75	0.64	0.59	
14	0.45	0.61	0.58	0.65	0.65	0.75	2.52	1.78	1.01	0.75	0.64	0.58	
15	0.45	0.60	0.58	0.63	0.68	0.75	1.93	2.15	0.99	0.75	0.64	0.58	
16	0.46	0.58	0.59	0.70	0.67	0.92	1.70	2.42	0.98	0.75	0.63	0.57	
17	0.50	0.56	0.59	0.69	0.65	1.21	2.00	2.69	0.96	0.75	0.63	0.56	
18	0.50	0.55	0.58	0.73	0.63	1.32	2.11	4.21	0.95	0.74	0.63	0.56	
19	0.50	0.54	0.66	0.70	0.61	1.42	2.37	3.72	0.94	0.73	0.63	0.56	
20	0.51	0.57	0.86	0.66	0.61	2.23	2.03	3.11	0.93	0.73	0.63	0.56	
21	0.52	0.57	1.02	0.67	0.61	2.84	1.80	2.58	0.91	0.73	0.63	0.57	
22	0.51	0.86	0.93	0.69	0.59	2.42	1.61	2.25	0.90	0.72	0.63	0.57	
23	0.50	0.77	0.84	0.93	0.59	2.09	1.46	2.03	0.89	0.71	0.62	0.57	
24	0.49	0.72	0.78	1.09	0.58	1.76	1.43	1.85	0.88	0.71	0.62	0.57	
25	0.48	0.76	0.89	1.11	0.58	1.55	1.33	1.72	0.87	0.71	0.61	0.56	
26	0.47	0.77	0.95	1.00	0.57	1.70	1.24	1.68	0.86	0.71	0.60	0.78	
27	0.46	0.73	0.90	0.96	0.57	1.53	1.19	1.76	0.86	0.70	0.60	0.73	
28	0.46	0.77	0.88	0.91	0.56	1.67	1.14	1.67	0.85	0.69	0.60	0.67	
29	0.47	0.75	0.82	0.85	0.56	1.51	1.10	1.53	0.84	0.69		0.64	
30	0.51	0.75	0.77	0.80	0.57	1.37	1.09	1.39	0.83	0.68		0.63	
31		0.76		0.76	0.57		1.06		0.82	0.68		0.61	
MEAN	0.47	0.66	0.72	0.74	0.63	1.19	1.46	2.19	1.01	0.75	0.64	0.60	
MAX	0.52	0.88	1.02	1.11	0.73	2.84	2.52	4.63	1.37	0.82	0.67	0.78	4.63
MIN	0.44	0.50	0.58	0.61	0.56	0.57	0.93	0.97	0.82	0.68	0.60	0.56	0.44

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.73 M (A.D), AT 9.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.36 M (A.D)

LEFT BANK ELEVATION — 3.70 M (A.D)

RIGHT BANK ELEVATION — 3.82 M (A.D), DRAINAGE AREA — 387 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.35	2.00	1.80	1.80	0.75	10.01	5.45	11.81	2.74	1.29	0.75	
2	0.15	0.30	1.60	1.50	1.70	0.80	8.12	5.00	10.89	2.74	1.29	0.75	
3	0.15	0.30	1.29	1.22	1.50	0.80	6.86	4.61	9.82	2.62	1.29	0.75	
4	0.15	0.45	1.15	1.15	1.36	0.80	6.05	10.01	9.25	2.50	1.22	0.75	
5	0.15	3.46	1.08	1.01	1.36	0.80	5.90	18.75	8.49	2.50	1.22	0.75	
6	0.15	3.22	1.01	0.87	1.36	0.75	5.30	11.81	7.76	2.50	1.22	0.75	
7	0.15	1.80	1.01	1.01	1.29	0.70	4.61	17.75	7.22	2.40	1.22	0.75	
8	0.12	1.22	1.01	1.01	1.29	0.65	4.22	*******	6.86	2.30	1.15	0.75	
9	0.12	0.94	0.94	1.01	1.29	1.01	4.09	*******	6.20	2.30	1.15	0.75	
10	0.12	0.80	0.94	0.87	1.15	2.86	4.74	75.50	6.05	2.20	1.15	0.75	
11	0.12	0.75	0.80	1.08	1.08	2.30	23.40	45.90	5.90	2.10	1.15	0.75	
12	0.12	1.01	0.75	1.08	1.08	2.74	13.25	31.84	5.75	2.00	1.08	0.75	
13	0.15	0.94	0.70	1.15	1.08	2.62	40.00	24.00	5.45	2.00	1.08	0.75	
14	0.15	0.87	0.70	1.15	1.15	2.00	45.90	22.00	5.15	2.00	1.08	0.70	
15	0.15	0.80	0.70	1.01	1.36	2.00	26.40	33.20	4.87	2.00	1.08	0.70	
16	0.18	0.70	0.75	1.50	1.29	3.96	20.00	42.38	4.74	2.00	1.01	0.65	
17	0.30	0.60	0.75	1.43	1.15	8.49	28.50	52.79	4.48	2.00	1.01	0.60	
18	0.30	0.55	0.70	1.80	1.01	10.66	31.84	*******	4.35	1.90	1.01	0.60	
19	0.30	0.50	1.22	1.50	0.87	13.00	40.68	105.20	4.22	1.80	1.01	0.60	
20	0.35	0.65	3.22	1.22	0.87	35.92	29.40	71.50	4.09	1.80	1.01	0.60	
21	0.40	0.65	5.30	1.29	0.87	59.30	22.50	48.30	3.83	1.80	1.01	0.65	
22	0.35	3.22	4.09	1.43	0.75	42.38	17.75	36.60	3.70	1.70	1.01	0.65	
23	0.30	2.20	2.98	4.09	0.75	31.20	14.00	29.40	3.58	1.60	0.94	0.65	
24	0.27	1.70	2.30	6.35	0.70	21.50	13.25	24.00	3.46	1.60	0.94	0.65	
25	0.24	2.10	3.58	6.68	0.70	16.25	10.89	20.50	3.34	1.60	0.87	0.60	
26	0.21	2.20	4.35	5.00	0.65	20.00	9.06	19.50	3.22	1.60	0.80	2.30	
27	0.18	1.80	3.70	4.48	0.65	15.75	8.12	21.50	3.22	1.50	0.80	1.80	
28	0.18	2.20	3.46	3.83	0.60	19.25	7.22	19.25	3.10	1.43	0.80	1.29	
29	0.21	2.00	2.74	3.10	0.60	15.25	6.50	15.75	2.98	1.43		1.08	
30	0.35	2.00	2.20	2.50	0.65	11.81	6.35	12.27	2.86	1.36		1.01	
31		2.10		2.10	0.65		5.90		2.74	1.36		0.87	
TOTAL	6.19	42.38	57.02	65.22	32.61	346.30	480.81	*******	169.38	61.38	29.89	25.75	******** CMSDAY
MEAN	0.21	1.37	1.90	2.10	1.05	11.54	15.51	*******	5.46	1.98	1.07	0.83	******* CMS
MAX	0.40	3.46	5.30	6.68	1.80	59.30	45.90	105.20	11.81	2.74	1.29	2.30	105.20 CMS
MIN	0.12	0.30	0.70	0.87	0.60	0.65	4.09	*******	2.74	1.36	0.80	0.60	******* CMS
RUNOFF	0.535	3.662	4.927	5.635	2.817	29.920	41.542	*******	14.634	5.303	2.582	2.225	******** MCM

MOMENTARY PEAK ******** CMS, AT 4.73 M (A.D), AT 9.00 HOURS, ON NOV 8, 1981
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

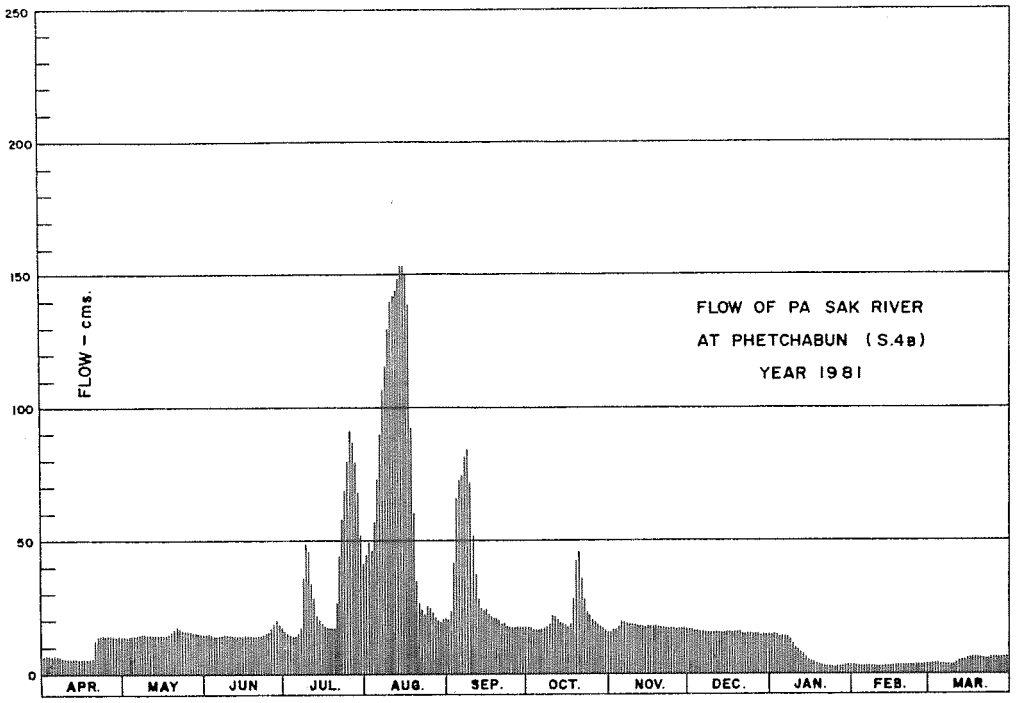
PA SAK RIVER AT PHETCHABUN, PHETCHABUN (S.48)

LOCATION	LAT. 16°-25'-12" N., LONG. 101°-10'-13" E., ON LEFT BANK UPSTREAM SIDE OF WAT PRATU DAO, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	3,566 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+106.50 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE PROVINCE OFFICE.
ELEVATION	+114.20 M. (M.S.L.)
GAGE READING FREQUENCY	RECORDING.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 24 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1966 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1966
RATED BY FLOAT	-
RATED BY CURRENT METER	1966
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 183 DISCHARGE MEASUREMENTS MADE IN 1966.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	108.53	109.56	109.59	109.65	111.89	110.26	109.92	109.77	109.86	109.64	107.96	108.10	
2	108.52	109.56	109.57	109.62	112.11	110.47	109.95	109.81	109.84	109.59	107.96	108.11	
3	108.50	109.55	109.60	109.56	111.99	111.85	109.88	109.86	109.82	109.55	107.95	108.11	
4	108.50	109.56	109.57	109.54	112.26	112.73	109.89	109.96	109.80	109.51	107.95	108.11	
5	108.49	109.57	109.54	109.53	112.90	113.03	109.85	110.12	109.79	109.53	107.94	108.11	
6	108.47	109.60	109.55	109.53	113.46	113.08	109.83	110.35	109.79	109.51	107.96	108.05	
7	108.45	109.61	109.62	109.83	113.85	113.29	109.94	110.37	109.78	109.48	107.98	108.00	
8	108.42	109.61	109.60	111.48	114.15	113.35	109.98	110.30	109.77	109.35	107.95	108.00	
9	108.38	109.59	109.58	112.08	114.60	113.04	110.06	110.19	109.76	109.17	107.94	108.00	
10	108.34	109.60	109.57	111.97	114.76	112.35	110.33	110.17	109.76	109.00	107.94	108.10	
11	108.32	109.60	109.56	111.32	114.80	111.59	110.32	110.12	109.75	108.86	107.95	108.32	
12	108.30	109.58	109.56	110.79	114.83	111.00	110.25	110.00	109.76	108.68	107.96	108.32	
13	108.31	109.59	109.57	110.42	114.94	110.64	110.15	110.01	109.77	108.74	107.97	108.33	
14	108.29	109.58	109.55	110.21	115.04	110.53	110.08	110.03	109.76	108.47	107.98	108.34	
15	108.26	109.57	109.55	110.04	115.04	110.61	110.02	110.01	109.74	108.37	107.99	108.38	
16	108.24	109.57	109.53	109.89	114.95	110.44	109.98	109.99	109.73	108.29	108.01	108.42	
17	108.25	109.59	109.52	109.87	114.55	110.31	110.12	109.99	109.72	108.17	108.03	108.46	
18	108.25	109.61	109.52	109.87	113.41	110.25	110.86	110.00	109.71	108.06	108.03	108.50	
19	108.29	109.74	109.54	109.87	112.07	110.22	111.80	110.00	109.70	107.99	108.04	108.50	
20	109.33	109.82	109.54	109.87	111.15	110.15	111.93	109.97	109.69	108.02	108.05	108.43	
21	109.59	109.95	109.54	110.93	110.77	110.08	111.45	109.93	109.69	108.03	108.07	108.39	
22	109.58	109.90	109.55	112.16	110.57	110.04	110.87	109.91	109.69	107.94	108.06	108.42	
23	109.56	109.86	109.64	112.61	110.44	109.98	110.49	109.90	109.68	107.96	108.06	108.47	
24	109.53	109.84	109.68	112.94	110.63	109.90	110.32	109.88	109.68	107.97	108.07	108.50	
25	109.54	109.75	109.68	113.35	110.60	109.92	110.22	109.89	109.68	107.97	108.08	108.52	
26	109.57	109.72	109.89	113.57	110.41	109.92	110.11	109.88	109.67	108.00	108.08	108.51	
27	109.56	109.71	110.08	113.45	110.23	109.97	110.05	109.88	109.65	108.00	108.09	108.50	
28	109.55	109.72	110.15	113.09	110.11	109.97	109.96	109.91	109.64	108.00	108.10	108.51	
29	109.55	109.69	109.97	112.61	110.13	109.97	109.86	109.92	109.65	108.01		108.50	
30	109.56	109.66	109.82	112.03	110.23	109.95	109.85	109.88	109.65	108.06		108.48	
31		109.63		111.72	110.23		109.77		109.65	108.01		108.48	
MEAN	108.80	109.66	109.64	111.08	112.49	110.96	110.26	110.00	109.73	108.58	108.01	108.32	
MAX	109.59	109.95	110.15	113.57	115.04	113.35	111.93	110.37	109.86	109.64	108.10	108.52	115.04
MIN	108.24	109.55	109.52	109.53	110.11	109.90	109.77	109.77	109.64	107.94	107.94	108.00	107.94

ANNUAL MAX MOMENTARY GAGE HEIGHT 115.05 M (MSL), AT 6.00 HOURS, ON AUG 15, 1981
ZERO GAGE AT BOTTOM ELEVATION 106.50 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 115.67 M (MSL)
RIGHT BANK ELEVATION 115.43 M (MSL), DRAINAGE AREA 3566 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.14	13.69	13.94	14.39	44.01	20.36	16.90	15.40	16.30	14.31	2.68	3.48	
2	5.09	13.69	13.77	14.17	48.63	22.74	17.20	15.80	16.10	13.94	2.68	3.54	
3	5.94	13.61	14.02	13.69	46.00	43.25	16.50	16.30	15.90	13.61	2.63	3.54	
4	5.94	13.69	13.77	13.53	52.08	64.34	16.60	17.30	15.70	13.28	2.63	3.54	
5	5.88	13.77	13.53	13.45	69.20	73.10	16.20	18.90	15.60	13.45	2.58	3.54	
6	5.75	14.02	13.61	13.45	87.24	74.60	16.00	21.35	15.60	13.28	2.68	3.18	
7	5.62	14.09	14.17	16.00	100.75	81.46	17.10	21.57	15.50	13.04	2.78	2.88	
8	5.43	14.09	14.02	36.48	112.65	83.50	17.50	20.80	15.40	12.00	2.63	2.88	
9	5.18	13.94	13.86	47.96	132.10	73.40	18.30	19.60	15.30	10.60	2.58	2.88	
10	4.93	14.02	13.77	45.60	139.58	54.25	21.13	19.40	15.30	9.38	2.58	3.48	
11	4.80	14.02	13.69	33.92	141.50	38.33	21.02	18.90	15.20	8.40	2.63	4.80	
12	4.68	13.86	13.69	26.67	142.94	29.40	20.25	17.70	15.30	7.16	2.68	4.80	
13	4.74	13.94	13.77	22.14	148.22	24.78	19.20	17.80	15.40	7.58	2.73	4.87	
14	4.62	13.86	13.61	19.81	153.06	23.46	18.50	18.00	15.30	5.75	2.78	4.93	
15	4.44	13.77	13.61	18.10	153.06	24.42	17.90	17.80	15.10	5.11	2.83	5.18	
16	4.32	13.77	13.45	16.60	148.70	22.38	17.50	17.60	15.00	4.62	2.94	5.43	
17	4.38	13.94	13.36	16.40	129.85	20.91	18.90	17.60	14.90	3.90	3.06	5.68	
18	4.38	14.09	13.36	16.40	85.54	20.25	27.58	17.70	14.83	3.24	3.06	5.94	
19	4.62	15.10	13.53	16.40	47.74	19.92	42.30	17.70	14.75	2.83	3.12	5.94	
20	11.84	15.90	13.53	16.40	31.35	19.20	44.80	17.40	14.68	3.00	3.18	5.49	
21	13.94	17.20	13.53	28.49	26.41	18.50	36.00	17.00	14.68	3.06	3.30	5.24	
22	13.86	16.70	13.61	49.78	23.94	18.10	27.71	16.80	14.68	2.58	3.24	5.43	
23	13.69	16.30	14.31	60.98	22.38	17.50	22.98	16.70	14.61	2.68	3.24	5.75	
24	13.45	16.10	14.61	70.40	24.66	16.70	21.02	16.50	14.61	2.73	3.30	5.94	
25	13.53	15.20	14.61	83.50	24.30	16.90	19.92	16.60	14.61	2.73	3.36	6.08	
26	13.77	14.90	16.60	90.98	22.02	16.90	18.80	16.50	14.53	2.88	3.36	6.01	
27	13.69	14.83	18.50	86.90	20.03	17.40	18.20	16.50	14.39	2.88	3.42	5.94	
28	13.61	14.90	19.20	74.90	18.80	17.40	17.30	16.80	14.31	2.88	3.48	6.01	
29	13.61	14.68	17.40	60.98	19.00	17.40	16.30	16.90	14.39	2.94		5.94	
30	13.69	14.46	15.90	46.86	20.03	17.20	16.20	16.50	14.39	3.24		5.81	
31		14.24		40.78	20.03		15.40		14.39	2.94		5.81	
TOTAL	246.55	450.37	432.33	1126.11	2255.80	1008.05	651.21	531.42	466.75	210.02	82.16	149.96	7610.72 CMSDAY
MEAN	8.22	14.53	14.41	36.33	72.77	33.60	21.01	17.71	15.06	6.77	2.93	4.84	20.85 CMS
MAX	13.94	17.20	19.20	90.98	153.06	83.50	44.80	21.57	16.30	14.31	3.48	6.08	153.06 CMS
MIN	4.32	13.61	13.36	13.45	18.80	16.70	15.40	15.40	14.31	2.58	2.58	2.88	2.58 CMS
RUNOFF	21.302	38.912	37.353	97.296	194.901	d7.095	56.264	45.915	40.327	18.146	7.099	12.957	657.566 MCM

MOMENTARY PEAK 153.55 CMS, AT 115.05 M (MSL), AT 6.00 HOURS, ON AUG 15, 1981
RUNOFF YIELD 5.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 43.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

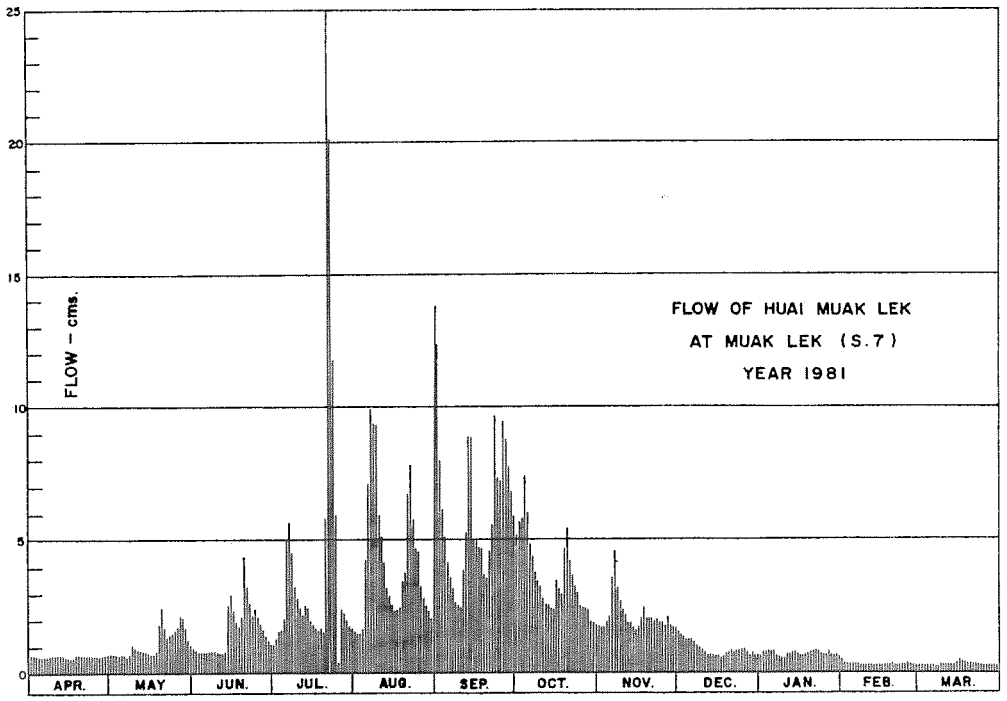
LAM MUAK LEK AT MUAK LEK, SARABURI (S.7)

LOCATION	LAT. 14°-38'-04" N., LONG. 101°-12'-37" E., ON LEFT BANK ABOUT 50 METERS UPSTREAM FROM THE BRIDGE OF BANKOK-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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 26 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.47	0.51	0.53	0.58	1.30	0.86	0.60	0.58	0.46	0.45	0.38	
2	0.46	0.47	0.51	0.55	0.57	1.06	0.89	0.60	0.57	0.48	0.41	0.38	
3	0.46	0.46	0.49	0.58	0.57	0.94	0.90	0.60	0.56	0.48	0.41	0.37	
4	0.45	0.45	0.49	0.59	0.60	0.85	1.00	0.61	0.55	0.49	0.40	0.38	
5	0.45	0.46	0.49	0.64	0.70	0.80	0.92	0.63	0.55	0.49	0.40	0.39	
6	0.45	0.46	0.49	0.85	0.87	0.75	0.86	0.73	0.55	0.49	0.40	0.39	
7	0.45	0.45	0.49	0.89	1.12	0.72	0.82	0.82	0.54	0.45	0.40	0.37	
8	0.46	0.46	0.49	0.78	1.10	0.69	0.78	0.74	0.53	0.45	0.39	0.38	
9	0.46	0.52	0.49	0.74	1.09	0.67	0.75	0.69	0.51	0.44	0.39	0.40	
10	0.46	0.52	0.49	0.69	0.94	0.66	0.73	0.66	0.50	0.44	0.39	0.39	
11	0.46	0.50	0.48	0.66	0.87	0.79	0.70	0.63	0.48	0.46	0.38	0.39	
12	0.46	0.49	0.48	0.64	0.81	0.87	0.67	0.61	0.47	0.47	0.39	0.39	
13	0.46	0.49	0.48	0.67	0.73	1.07	0.67	0.61	0.47	0.48	0.39	0.40	
14	0.45	0.49	0.64	0.66	0.70	1.07	0.66	0.59	0.47	0.48	0.39	0.40	
15	0.45	0.48	0.71	0.62	0.67	0.84	0.65	0.58	0.46	0.47	0.39	0.41	
16	0.45	0.47	0.68	0.61	0.65	0.84	0.75	0.60	0.46	0.46	0.39	0.43	
17	0.45	0.47	0.63	0.59	0.66	0.83	0.72	0.61	0.45	0.46	0.40	0.42	
18	0.46	0.49	0.60	0.58	0.66	0.83	0.70	0.66	0.46	0.47	0.40	0.41	
19	0.46	0.55	0.63	0.60	0.73	0.76	0.84	0.63	0.47	0.48	0.40	0.40	
20	0.46	0.65	0.81	0.58	0.77	0.75	0.88	0.63	0.48	0.49	0.40	0.40	
21	0.46	0.58	0.73	0.88	0.08	0.85	0.81	0.63	0.50	0.49	0.39	0.40	
22	0.46	0.56	0.69	1.74	1.02	0.89	0.76	0.61	0.48	0.49	0.39	0.40	
23	0.46	0.57	0.64	1.54	0.90	1.11	0.73	0.62	0.48	0.49	0.39	0.39	
24	0.46	0.57	0.66	1.07	0.83	0.95	0.71	0.61	0.49	0.47	0.39	0.39	
25	0.46	0.58	0.64	0.84	0.81	0.99	0.67	0.61	0.50	0.47	0.40	0.39	
26	0.46	0.59	0.62	0.21	0.73	0.99	0.66	0.60	0.50	0.47	0.40	0.39	
27	0.46	0.64	0.59	0.66	0.69	1.10	0.66	0.63	0.48	0.48	0.40	0.39	
28	0.46	0.63	0.57	0.64	0.66	1.07	0.65	0.60	0.47	0.47	0.39	0.38	
29	0.46	0.59	0.55	0.62	0.65	1.03	0.62	0.59	0.48	0.47		0.38	
30	0.47	0.55	0.54	0.60	0.63	0.94	0.62	0.59	0.46	0.47		0.37	
31		0.53		0.59	0.66		0.60		0.46	0.46		0.38	
MEAN	0.46	0.52	0.58	0.72	0.74	0.90	0.75	0.63	0.50	0.47	0.40	0.39	
MAX	0.47	0.65	0.81	1.74	1.12	1.30	1.00	0.82	0.58	0.49	0.45	0.43	1.74
MIN	0.45	0.45	0.48	0.21	0.08	0.66	0.60	0.58	0.45	0.44	0.38	0.37	0.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.07 M (A.D), AT 2.00 HOURS, ON JUL 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.56 M (A.D)
LEFT BANK ELEVATION 7.87 M (A.D)
RIGHT BANK ELEVATION 7.87 M (A.D), DRAINAGE AREA 177 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.65	0.89	1.07	1.52	13.80	5.16	1.70	1.52	0.60	0.55	0.24	
2	0.60	0.65	0.89	1.25	1.43	8.60	5.64	1.70	1.43	0.70	0.35	0.24	
3	0.60	0.60	0.75	1.52	1.43	6.44	5.80	1.70	1.34	0.70	0.35	0.21	
4	0.55	0.55	0.75	1.61	1.70	5.00	7.40	1.82	1.25	0.75	0.30	0.24	
5	0.55	0.60	0.75	2.18	2.90	4.20	6.12	2.06	1.25	0.75	0.30	0.27	
6	0.55	0.60	0.75	5.00	5.32	3.55	5.16	3.29	1.25	0.75	0.30	0.27	
7	0.55	0.55	0.75	5.64	9.82	3.16	4.52	4.52	1.16	0.55	0.30	0.21	
8	0.60	0.60	0.75	3.94	9.40	2.78	3.94	3.42	1.07	0.55	0.27	0.24	
9	0.60	0.98	0.75	3.42	9.20	2.54	3.55	2.78	0.89	0.50	0.27	0.30	
10	0.60	0.98	0.75	2.78	6.44	2.42	3.29	2.42	0.80	0.50	0.27	0.27	
11	0.60	0.80	0.70	2.42	5.32	4.07	2.90	2.06	0.70	0.60	0.24	0.27	
12	0.60	0.75	0.70	2.18	4.36	5.32	2.54	1.82	0.65	0.65	0.27	0.27	
13	0.60	0.75	0.70	2.54	3.29	8.80	2.54	1.82	0.65	0.70	0.27	0.30	
14	0.55	0.75	2.18	2.42	2.90	8.80	2.42	1.61	0.65	0.70	0.27	0.30	
15	0.55	0.70	3.03	1.94	2.54	4.84	2.30	1.52	0.60	0.65	0.27	0.35	
16	0.55	0.65	2.66	1.82	2.30	4.84	3.55	1.70	0.60	0.60	0.27	0.45	
17	0.55	0.65	2.06	1.61	2.42	4.68	3.16	1.82	0.55	0.60	0.30	0.40	
18	0.60	0.75	1.70	1.52	2.42	4.68	2.90	2.42	0.60	0.65	0.30	0.35	
19	0.60	1.25	2.06	1.70	3.29	3.68	4.84	2.06	0.65	0.70	0.30	0.30	
20	0.60	2.30	4.36	1.52	3.81	3.55	5.48	2.06	0.70	0.75	0.30	0.30	
21	0.60	1.52	3.29	5.48	0.00	5.00	4.36	2.06	0.80	0.75	0.27	0.30	
22	0.60	1.34	2.78	26.24	7.80	5.64	3.68	1.82	0.70	0.75	0.27	0.30	
23	0.60	1.43	2.18	20.22	5.80	9.61	3.29	1.94	0.70	0.75	0.27	0.27	
24	0.60	1.43	2.42	8.80	4.68	6.60	3.03	1.82	0.75	0.65	0.27	0.27	
25	0.60	1.52	2.18	4.84	4.36	7.24	2.54	1.82	0.80	0.65	0.30	0.27	
26	0.60	1.61	1.94	0.00	3.29	7.24	2.42	1.70	0.80	0.65	0.30	0.27	
27	0.60	2.18	1.61	2.42	2.78	9.40	2.42	2.06	0.70	0.70	0.30	0.27	
28	0.60	2.06	1.43	2.18	2.42	8.80	2.30	1.70	0.65	0.65	0.27	0.24	
29	0.60	1.61	1.25	1.94	2.30	8.00	1.94	1.61	0.70	0.65		0.24	
30	0.65	1.25	1.16	1.70	2.06	6.44	1.94	1.61	0.60	0.65		0.21	
31		1.07		1.61	2.42		1.70		0.60	0.60		0.24	
TOTAL	17.65	33.13	48.17	123.51	119.72	179.72	112.83	62.44	26.11	20.40	8.30	8.66	760.64 CMSDAY
MEAN	0.59	1.07	1.61	3.98	3.86	5.99	3.64	2.08	0.84	0.66	0.30	0.28	2.08 CMS
MAX	0.65	2.30	4.36	26.24	9.82	13.80	7.40	4.52	1.52	0.75	0.55	0.45	26.24 CMS
MIN	0.55	0.55	0.70	0.00	0.00	2.42	1.70	1.52	0.55	0.50	0.24	0.21	0.00 CMS
RUNOFF	1.525	2.862	4.162	10.671	10.344	15.528	9.748	5.395	2.256	1.763	0.717	0.748	65.719 MCM

MOMENTARY PEAK 83.37 CMS, AT 3.07 M (A.D), AT 2.00 HOURS, ON JUL 22, 1981

RUNOFF YIELD 11.77 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 471.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

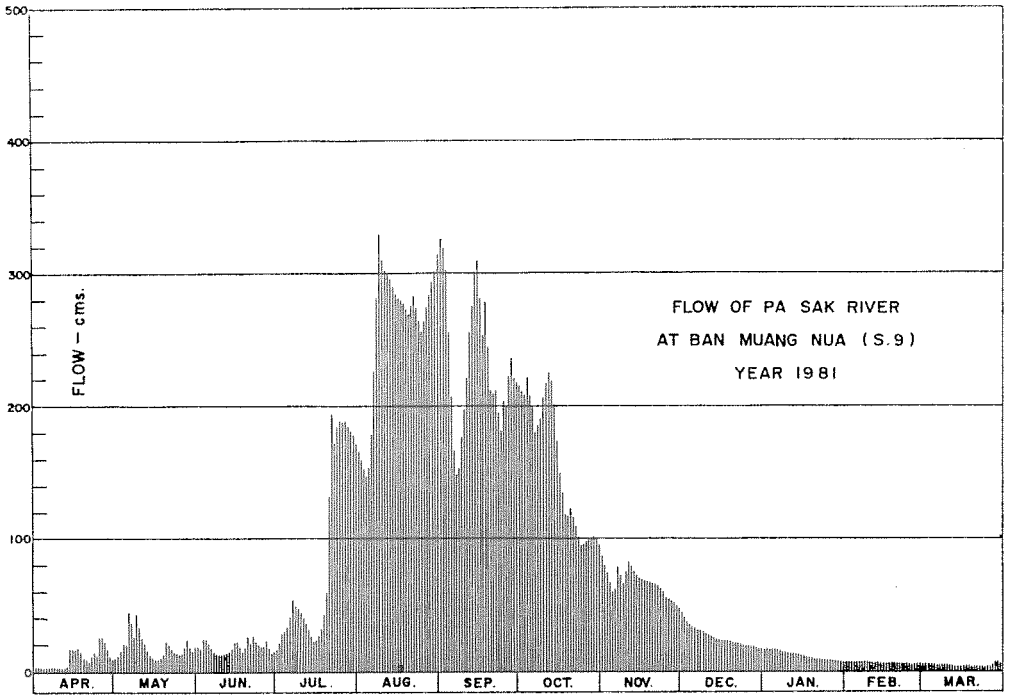
PA SAK RIVER AT BAN MUANG NUA, SARABURI (S.9)

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.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.27	8.51	8.73	8.68	10.69	12.13	11.16	9.82	9.17	8.67	8.44	8.36	
2	8.27	8.58	8.69	8.76	10.60	12.18	11.11	9.74	9.11	8.67	8.43	8.36	
3	8.27	8.69	8.80	8.91	10.54	11.98	11.11	9.66	9.07	8.67	8.43	8.36	
4	8.28	8.77	8.87	8.94	10.46	11.59	11.23	9.54	9.04	8.66	8.42	8.36	
5	8.28	8.76	8.75	9.00	10.54	11.16	11.16	9.44	9.00	8.65	8.42	8.36	
6	8.28	9.20	8.68	9.13	10.80	10.73	10.99	9.46	8.98	8.64	8.42	8.36	
7	8.28	9.03	8.63	9.36	11.33	10.50	10.83	9.71	8.96	8.63	8.42	8.35	
8	8.27	8.86	8.61	9.29	11.87	10.54	10.84	9.63	8.95	8.61	8.42	8.35	
9	8.26	9.18	8.59	9.25	12.21	10.75	10.94	9.53	8.94	8.61	8.41	8.35	
10	8.25	8.94	8.58	9.20	12.07	10.98	11.12	9.67	8.92	8.60	8.41	8.35	
11	8.25	8.84	8.59	9.14	11.97	11.20	11.21	9.74	8.90	8.60	8.41	8.35	
12	8.27	8.75	8.61	9.08	11.94	11.57	11.26	9.70	8.88	8.59	8.40	8.34	
13	8.32	8.66	8.62	9.00	11.93	11.75	11.20	9.65	8.86	8.59	8.40	8.34	
14	8.69	8.57	8.66	8.87	11.88	11.95	11.02	9.61	8.84	8.57	8.40	8.34	
15	8.69	8.52	8.77	8.80	11.83	12.04	10.75	9.58	8.82	8.56	8.40	8.34	
16	8.67	8.49	8.78	8.82	11.79	11.79	10.56	9.57	8.82	8.54	8.39	8.34	
17	8.70	8.48	8.74	8.92	11.78	11.53	10.34	9.55	8.80	8.53	8.39	8.33	
18	8.59	8.50	8.64	9.06	11.73	11.76	10.17	9.53	8.80	8.52	8.39	8.33	
19	8.51	8.58	8.71	9.29	11.74	11.27	10.14	9.53	8.79	8.50	8.39	8.32	
20	8.47	8.81	8.86	9.41	11.67	11.13	10.21	9.52	8.77	8.49	8.39	8.32	
21	8.43	8.74	8.77	10.30	11.71	11.10	10.16	9.49	8.76	8.49	8.38	8.32	
22	8.51	8.66	8.88	10.97	11.80	11.12	10.04	9.49	8.76	8.49	8.38	8.32	
23	8.63	8.62	8.76	10.73	11.67	10.97	9.95	9.46	8.75	8.48	8.38	8.32	
24	8.57	8.61	8.72	10.86	11.58	10.83	9.89	9.43	8.74	8.47	8.38	8.32	
25	8.86	8.59	8.72	10.90	11.56	11.05	9.89	9.38	8.74	8.47	8.37	8.32	
26	8.86	8.57	8.75	10.89	11.61	11.01	9.94	9.36	8.73	8.47	8.37	8.32	
27	8.81	8.74	8.80	10.90	11.73	11.27	9.96	9.33	8.72	8.46	8.36	8.36	
28	8.62	8.83	8.68	10.87	11.83	11.37	9.97	9.30	8.71	8.45	8.36	8.42	
29	8.52	8.73	8.63	10.84	11.93	11.22	9.97	9.29	8.70	8.45		8.39	
30	8.49	8.65	8.64	10.81	12.01	11.20	9.96	9.23	8.69	8.44		8.37	
31		8.72		10.77	12.06		9.90		8.68	8.44		8.35	
MEAN	8.47	8.72	8.71	9.67	11.58	11.32	10.55	9.53	8.85	8.55	8.40	8.35	
MAX	8.86	9.20	8.88	10.97	12.21	12.18	11.26	9.82	9.17	8.67	8.44	8.42	12.21
MIN	8.25	8.48	8.58	8.68	10.46	10.50	9.89	9.23	8.68	8.44	8.36	8.32	8.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 12.27 M (MSL), AT 9.00 HOURS, ON AUG 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 7.49 M (MSL), RIVER BED 7.18 M (MSL)
LEFT BANK ELEVATION 24.53 M (MSL)
RIGHT BANK ELEVATION 24.53 M (MSL), DRAINAGE AREA 13474 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.10	9.40	18.50	16.20	167.00	319.30	214.00	88.60	42.20	15.80	7.20	4.80	
2	2.10	12.20	16.60	20.00	158.00	324.80	209.00	82.20	38.60	15.80	6.90	4.80	
3	2.10	16.60	22.00	27.50	152.50	302.80	209.00	75.80	36.20	15.80	6.90	4.80	
4	2.40	20.50	25.50	29.00	145.17	259.90	221.00	66.80	34.40	15.40	6.60	4.80	
5	2.40	20.00	19.50	32.00	152.50	214.00	214.00	59.80	32.00	15.00	6.60	4.80	
6	2.40	44.00	16.20	39.80	178.00	171.00	197.00	61.20	31.00	14.60	6.60	4.80	
7	2.40	33.80	14.20	54.20	231.30	148.83	181.00	79.80	30.00	14.20	6.60	4.50	
8	2.10	25.00	13.40	49.40	290.70	152.50	182.00	73.40	29.50	13.40	6.60	4.50	
9	1.80	42.80	12.60	47.00	328.10	173.00	192.00	66.10	29.00	13.40	6.30	4.50	
10	1.50	29.00	12.20	44.00	312.70	196.00	210.00	76.60	28.00	13.00	6.30	4.50	
11	1.50	24.00	12.60	40.40	301.70	218.00	219.00	82.20	27.00	13.00	6.30	4.50	
12	2.10	19.50	13.40	36.80	298.40	257.70	224.00	79.00	26.00	12.60	6.00	4.20	
13	3.60	15.40	13.80	32.00	297.30	277.50	219.00	75.00	25.00	12.60	6.00	4.20	
14	16.60	11.80	15.40	25.50	291.80	299.50	200.00	71.80	24.00	11.80	6.00	4.20	
15	16.60	9.80	20.50	22.00	286.30	309.40	173.00	69.60	23.00	11.40	6.00	4.20	
16	15.80	8.70	21.00	23.00	281.90	281.90	154.33	68.90	23.00	10.60	5.70	4.20	
17	17.00	8.40	19.00	28.00	280.80	253.30	134.17	67.50	22.00	10.20	5.70	3.90	
18	12.60	9.00	14.60	35.60	275.30	278.60	118.58	66.10	22.00	9.80	5.70	3.90	
19	9.40	12.20	17.50	49.40	276.40	225.00	115.83	66.10	21.50	9.00	5.70	3.60	
20	8.10	22.50	25.00	57.70	268.70	211.00	122.25	65.40	20.50	8.70	5.70	3.60	
21	6.90	19.00	20.50	130.50	273.10	208.00	117.67	63.30	20.00	8.70	5.40	3.60	
22	9.40	15.40	26.00	195.00	283.00	210.00	106.67	63.30	20.00	8.70	5.40	3.60	
23	14.20	13.80	20.00	171.00	268.70	195.00	99.00	61.20	19.50	8.40	5.40	3.60	
24	11.80	13.40	18.00	184.00	258.80	181.00	94.20	59.10	19.00	8.10	5.40	3.60	
25	25.00	12.60	18.00	188.00	256.60	203.00	94.20	55.60	19.00	8.10	5.10	3.60	
26	25.00	11.80	19.50	187.00	262.10	199.00	98.20	54.20	18.50	8.10	5.10	3.60	
27	22.50	19.00	22.00	188.00	275.30	225.00	99.80	52.10	18.00	7.80	4.80	4.80	
28	13.80	23.50	16.20	185.00	286.30	235.70	100.60	50.00	17.50	7.50	4.80	6.60	
29	9.80	18.50	14.20	182.00	297.30	220.00	100.60	49.40	17.00	7.50		5.70	
30	8.70	15.00	14.60	179.00	306.10	218.00	99.80	45.80	16.60	7.20		5.10	
31		18.00		175.00	311.60		95.00		16.20	7.20		4.50	
TOTAL	271.70	574.60	532.50	2674.00	8053.46	6968.73	4813.90	1995.90	766.20	343.40	166.80	135.60	27296.77 CMSDAY
MEAN	9.06	18.54	17.75	86.26	259.79	232.29	155.29	66.53	24.72	11.08	5.96	4.37	74.79 CMS
MAX	25.00	44.00	26.00	195.00	328.10	324.80	224.00	88.60	42.20	15.80	7.20	6.60	328.10 CMS
MIN	1.50	8.40	12.20	16.20	145.17	148.83	94.20	45.80	16.20	7.20	4.80	3.60	1.50 CMS
RUNOFF	23.475	49.645	46.008	231.034	695.819	602.098	415.921	172.446	66.200	29.670	14.412	11.716	2358.440 MCM

MOMENTARY PEAK 334.70 CMS, AT 12.27 M (MSL), AT 9.00 HOURS, ON AUG 9, 1981

RUNOFF YIELD 5.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 24.84 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

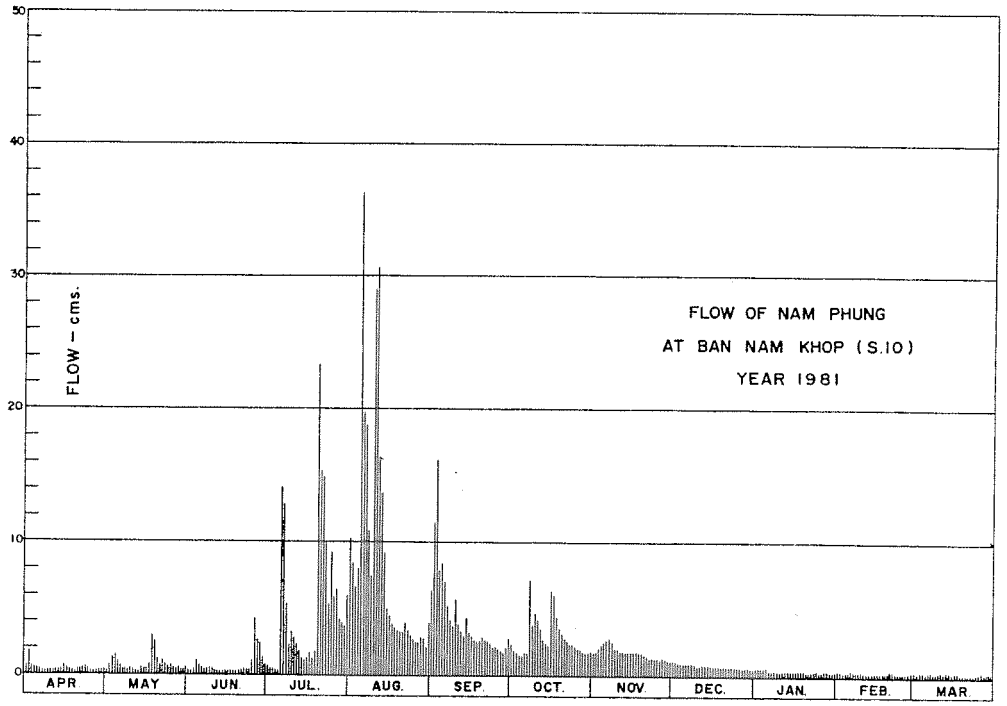
NAM PHUNG AT BAN NAM KHOP, PHETCHABUN (S.10)

LOCATION	LAT. 16°-56'-50" N., LONG. 101°-13'-10" E., ON RIGHT BANK AT NAM PHUNG BRIDGE, TAMBON HIN HAO, AMPHOE LOM KAO, PHETCHABUN.
DRAINAGE AREA	268 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	0.20	0.20	0.27	1.29	1.02	0.50	0.47	0.35	0.25	0.19	0.20	
2	0.47	0.20	0.16	0.24	1.16	1.40	0.47	0.46	0.35	0.25	0.20	0.16	
3	0.29	0.39	0.21	0.24	1.01	1.65	0.46	0.48	0.34	0.25	0.18	0.17	
4	0.24	0.44	0.35	0.20	1.13	1.12	0.44	0.54	0.34	0.25	0.19	0.17	
5	0.23	0.34	0.29	0.26	2.57	1.15	0.43	0.58	0.34	0.24	0.20	0.15	
6	0.22	0.25	0.25	1.53	1.86	0.99	0.46	0.59	0.34	0.22	0.20	0.17	
7	0.18	0.23	0.23	1.45	1.77	0.84	0.45	0.61	0.33	0.21	0.21	0.18	
8	0.19	0.25	0.23	0.82	1.34	0.79	1.05	0.57	0.33	0.21	0.18	0.16	
9	0.19	0.22	0.25	0.58	1.08	0.73	0.74	0.50	0.32	0.21	0.18	0.16	
10	0.20	0.25	0.23	0.68	2.26	0.92	0.83	0.49	0.31	0.22	0.20	0.15	
11	0.17	0.22	0.20	0.60	2.34	0.72	0.70	0.47	0.31	0.22	0.19	0.15	
12	0.21	0.19	0.19	0.50	1.65	0.68	0.67	0.46	0.32	0.20	0.18	0.15	
13	0.24	0.35	0.19	0.41	1.36	0.63	0.58	0.46	0.31	0.22	0.17	0.15	
14	0.24	0.26	0.18	0.36	1.17	0.78	0.55	0.45	0.31	0.19	0.18	0.15	
15	0.28	0.26	0.18	0.35	1.01	0.66	0.53	0.47	0.30	0.22	0.19	0.14	
16	0.23	0.20	0.19	0.37	0.86	0.63	0.98	0.47	0.29	0.20	0.18	0.16	
17	0.23	0.33	0.19	0.43	0.78	0.60	0.94	0.46	0.29	0.22	0.19	0.16	
18	0.21	0.65	0.17	0.37	0.74	0.58	0.77	0.46	0.29	0.22	0.19	0.14	
19	0.21	0.57	0.18	0.48	0.70	0.58	0.70	0.44	0.28	0.20	0.18	0.15	
20	0.20	0.37	0.21	2.01	0.68	0.62	0.64	0.42	0.28	0.18	0.18	0.14	
21	0.23	0.30	0.20	1.56	0.68	0.59	0.62	0.41	0.28	0.20	0.23	0.15	
22	0.22	0.39	0.20	1.58	0.74	0.54	0.58	0.40	0.27	0.19	0.21	0.15	
23	0.28	0.31	0.20	1.18	0.68	0.54	0.55	0.40	0.27	0.21	0.19	0.15	
24	0.24	0.28	0.20	0.90	0.64	0.52	0.55	0.40	0.27	0.21	0.16	0.14	
25	0.19	0.30	0.38	1.21	0.60	0.52	0.52	0.39	0.26	0.19	0.17	0.16	
26	0.18	0.28	0.78	0.96	0.58	0.48	0.50	0.38	0.26	0.20	0.16	0.17	
27	0.19	0.23	0.62	0.99	0.55	0.47	0.50	0.40	0.26	0.19	0.15	0.15	
28	0.23	0.25	0.54	0.79	0.54	0.46	0.49	0.37	0.26	0.19	0.17	0.13	
29	0.21	0.24	0.39	0.73	0.62	0.47	0.49	0.37	0.25	0.20		0.17	
30	0.20	0.20	0.31	0.72	0.61	0.62	0.48	0.36	0.24	0.19		0.16	
31		0.22		1.09	0.51		0.48		0.25	0.19		0.17	
MEAN	0.23	0.30	0.27	0.77	1.08	0.74	0.60	0.46	0.30	0.21	0.19	0.16	
MAX	0.47	0.65	0.78	2.01	2.57	1.65	1.05	0.61	0.35	0.25	0.23	0.20	2.57
MIN	0.17	0.19	0.16	0.20	0.51	0.46	0.43	0.36	0.24	0.18	0.15	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.99 M (A.D), AT 12.00 HOURS, ON AUG 5, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.70 M (A.D)
LEFT BANK ELEVATION 8.65 M (A.D)
RIGHT BANK ELEVATION 6.79 M (A.D), DRAINAGE AREA 268 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.66	0.30	0.30	0.58	10.26	6.74	1.95	1.75	1.00	0.50	0.27	0.30	
2	1.75	0.30	0.18	0.46	8.48	11.90	1.75	1.69	1.00	0.50	0.30	0.18	
3	0.66	1.24	0.34	0.46	6.62	16.10	1.69	1.82	0.94	0.50	0.24	0.21	
4	0.46	1.56	1.00	0.30	8.09	7.96	1.56	2.21	0.94	0.50	0.27	0.21	
5	0.42	0.94	0.66	0.54	36.25	8.35	1.49	2.47	0.94	0.46	0.30	0.15	
6	0.38	0.50	0.50	14.01	20.10	6.39	1.69	2.53	0.94	0.38	0.30	0.21	
7	0.24	0.42	0.42	12.70	18.33	4.80	1.62	2.62	0.88	0.34	0.34	0.24	
8	0.27	0.50	0.42	4.60	11.00	4.31	7.10	2.40	0.88	0.34	0.24	0.18	
9	0.27	0.38	0.50	2.47	7.46	3.71	3.81	1.95	0.82	0.34	0.24	0.18	
10	0.30	0.50	0.42	3.25	28.68	5.62	4.70	1.88	0.76	0.38	0.30	0.15	
11	0.21	0.38	0.30	2.60	30.56	3.61	3.41	1.75	0.76	0.38	0.27	0.15	
12	0.34	0.27	0.27	1.95	16.10	3.25	3.17	1.69	0.82	0.30	0.24	0.15	
13	0.46	1.00	0.27	1.36	11.30	2.84	2.47	1.69	0.76	0.38	0.21	0.15	
14	0.46	0.54	0.24	1.06	8.61	4.21	2.27	1.62	0.76	0.27	0.24	0.15	
15	0.62	0.54	0.24	1.00	6.62	3.09	2.14	1.75	0.70	0.38	0.27	0.12	
16	0.42	0.30	0.27	1.12	5.00	2.84	6.28	1.75	0.66	0.30	0.24	0.18	
17	0.42	0.88	0.27	1.49	4.21	2.60	5.84	1.69	0.66	0.38	0.27	0.18	
18	0.34	3.00	0.21	1.12	3.81	2.47	4.11	1.69	0.66	0.38	0.27	0.12	
19	0.34	2.40	0.24	1.82	3.41	2.47	3.41	1.56	0.62	0.30	0.24	0.15	
20	0.30	1.12	0.34	23.21	3.25	2.76	2.92	1.43	0.62	0.24	0.24	0.12	
21	0.42	0.70	0.30	14.52	3.25	2.53	2.76	1.36	0.62	0.30	0.42	0.15	
22	0.38	1.24	0.30	14.86	3.81	2.21	2.47	1.30	0.58	0.27	0.34	0.15	
23	0.62	0.76	0.30	8.74	3.25	2.21	2.27	1.30	0.58	0.34	0.27	0.15	
24	0.46	0.62	0.30	5.40	2.92	2.08	2.27	1.30	0.58	0.34	0.18	0.12	
25	0.27	0.70	1.18	9.14	2.60	2.08	2.08	1.24	0.54	0.27	0.21	0.18	
26	0.24	0.62	4.21	6.06	2.47	1.82	1.95	1.18	0.54	0.30	0.18	0.21	
27	0.27	0.42	2.76	6.39	2.27	1.75	1.95	1.30	0.54	0.27	0.15	0.15	
28	0.42	0.50	2.21	4.31	2.21	1.69	1.88	1.12	0.54	0.27	0.21	0.09	
29	0.34	0.46	1.24	3.71	2.76	1.75	1.88	1.12	0.50	0.30		0.21	
30	0.30	0.30	0.76	3.61	2.68	2.76	1.82	1.06	0.46	0.27		0.18	
31		0.38		7.58	2.01		1.82		0.50	0.27		0.21	
TOTAL	13.04	23.77	20.95	160.42	278.37	126.90	86.53	50.28	22.10	10.75	7.25	5.28	805.64 CMSDAY
MEAN	0.43	0.77	0.70	5.17	8.98	4.23	2.79	1.68	0.71	0.35	0.26	0.17	2.21 CMS
MAX	1.75	3.00	4.21	23.21	36.25	16.10	7.10	2.68	1.00	0.50	0.42	0.30	36.25 CMS
MIN	0.21	0.27	0.18	0.30	2.01	1.69	1.49	1.06	0.46	0.24	0.15	0.09	0.09 CMS
RUNOFF	1.127	2.054	1.810	13.860	24.051	10.964	7.476	4.344	1.909	0.929	0.626	0.456	69.607 MCM

MOMENTARY PEAK 76.50 CMS, AT 3.99 M (A.D), AT 12.00 HOURS, ON AUG 5, 1981
RUNOFF YIELD 8.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 285.45 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

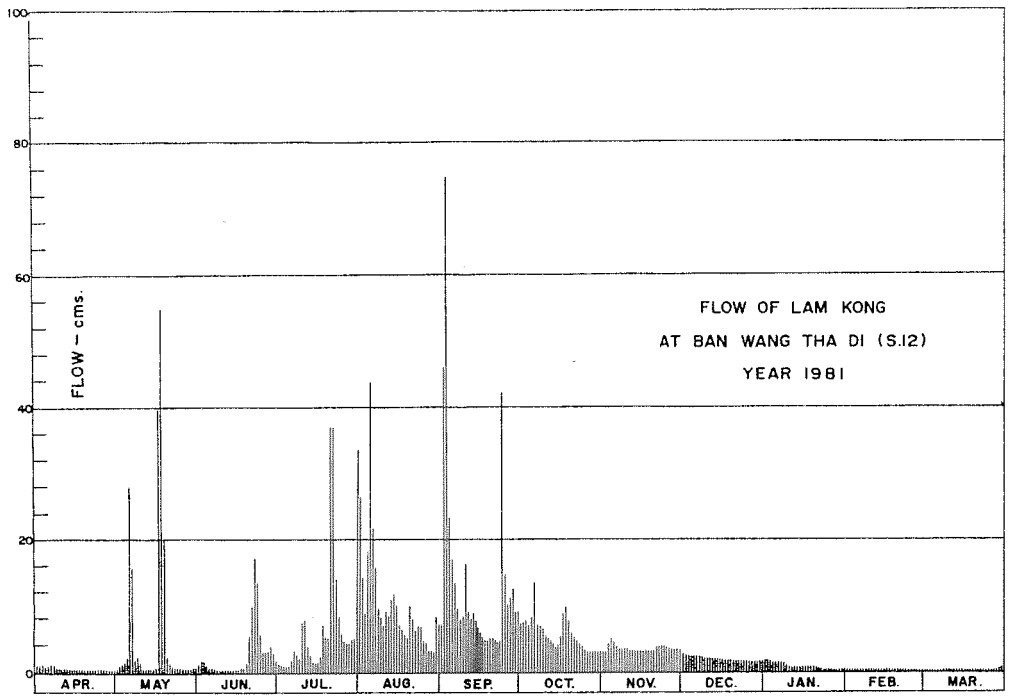
LAM KONG AT BAN WANG THA DI, PHETCHABUN (S.12)

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	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.52	0.62	0.72	2.18	1.20	1.18	0.92	0.84	0.76	0.56	0.52	
2	0.64	0.54	0.78	0.67	1.54	2.47	1.20	0.92	0.84	0.76	0.55	0.52	
3	0.64	0.67	0.70	0.65	1.28	3.05	1.21	0.98	0.83	0.75	0.55	0.52	
4	0.59	0.72	0.65	0.63	1.66	1.95	1.16	1.04	0.83	0.74	0.54	0.52	
5	0.63	0.86	0.62	0.64	2.43	1.68	1.24	1.00	0.83	0.74	0.55	0.52	
6	0.66	2.02	0.58	0.70	1.84	1.46	1.53	0.96	0.82	0.74	0.55	0.52	
7	0.67	1.45	0.56	0.88	1.52	1.31	1.20	0.94	0.82	0.74	0.55	0.52	
8	0.57	0.75	0.55	0.83	1.34	1.22	1.17	0.94	0.81	0.73	0.57	0.52	
9	0.56	0.80	0.55	0.78	1.23	1.25	1.13	0.95	0.81	0.68	0.57	0.52	
10	0.54	0.73	0.54	1.21	1.19	1.65	1.07	0.93	0.80	0.59	0.57	0.51	
11	0.54	0.69	0.52	1.23	1.31	1.31	1.04	0.92	0.80	0.59	0.57	0.51	
12	0.53	0.64	0.50	0.98	1.25	1.23	0.99	0.92	0.79	0.59	0.56	0.51	
13	0.54	0.63	0.49	0.83	1.38	1.31	0.97	0.92	0.79	0.59	0.55	0.51	
14	0.54	0.58	0.49	0.75	1.45	1.21	0.96	0.91	0.78	0.59	0.55	0.50	
15	0.54	0.53	0.49	0.73	1.35	1.13	0.97	0.91	0.78	0.59	0.55	0.50	
16	0.53	0.54	0.48	0.74	1.20	1.07	1.10	0.91	0.77	0.59	0.54	0.50	
17	0.53	2.22	0.49	0.83	1.12	1.03	1.29	0.91	0.77	0.59	0.54	0.50	
18	0.53	2.66	0.54	1.18	1.08	1.01	1.34	0.90	0.77	0.59	0.54	0.50	
19	0.53	1.93	0.49	1.05	1.04	1.03	1.16	0.90	0.77	0.59	0.54	0.50	
20	0.53	0.86	1.00	1.05	1.35	1.04	1.08	0.90	0.77	0.58	0.54	0.50	
21	0.53	0.73	0.76	2.26	1.23	1.02	1.03	0.89	0.77	0.58	0.54	0.51	
22	0.53	0.64	1.46	2.25	1.11	0.98	1.00	0.89	0.77	0.57	0.54	0.51	
23	0.52	0.58	1.68	1.63	1.13	1.05	0.98	0.89	0.77	0.57	0.54	0.53	
24	0.52	0.57	1.10	1.26	1.14	2.39	0.96	0.89	0.77	0.57	0.53	0.54	
25	0.52	0.58	0.92	1.10	1.04	1.59	0.94	0.89	0.77	0.57	0.53	0.54	
26	0.52	0.56	0.89	1.02	0.99	1.35	0.92	0.88	0.77	0.57	0.53	0.54	
27	0.51	0.56	0.86	0.97	0.94	1.40	0.90	0.86	0.77	0.57	0.53	0.54	
28	0.51	0.56	0.99	1.01	0.92	1.57	0.89	0.85	0.76	0.57	0.52	0.54	
29	0.51	0.56	0.91	1.02	0.91	1.28	0.89	0.85	0.76	0.57		0.56	
30	0.51	0.56	0.77	1.03	1.25	1.28	0.90	0.85	0.76	0.56		0.59	
31		0.58		1.47	1.20		0.90		0.76	0.56		0.63	
MEAN	0.55	0.87	0.73	1.04	1.31	1.42	1.07	0.91	0.79	0.63	0.55	0.52	
MAX	0.67	2.66	1.68	2.26	2.43	3.05	1.53	1.04	0.84	0.76	0.57	0.63	3.05
MIN	0.51	0.52	0.48	0.63	0.91	0.98	0.89	0.85	0.76	0.56	0.52	0.50	0.48

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.10 M (A.D), AT 7.00 HOURS, ON SEP 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 7.11 M (A.D)
RIGHT BANK ELEVATION 6.92 M (A.D), DRAINAGE AREA 471 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.65	0.10	0.60	1.20	33.77	7.50	7.20	3.30	2.40	1.60	0.30	0.10	
2	0.70	0.20	1.80	0.85	13.80	45.65	7.50	3.30	2.40	1.60	0.25	0.10	
3	0.70	0.85	1.00	0.75	8.70	75.06	7.65	4.20	2.30	1.50	0.25	0.10	
4	0.45	1.20	0.75	0.65	16.50	25.33	6.90	5.10	2.30	1.40	0.20	0.10	
5	0.65	2.60	0.60	0.70	43.85	17.00	8.10	4.50	2.30	1.40	0.25	0.10	
6	0.80	27.90	0.40	1.00	21.70	12.20	13.60	3.90	2.20	1.40	0.25	0.10	
7	0.85	12.00	0.30	2.80	13.40	9.20	7.50	3.60	2.20	1.40	0.25	0.10	
8	0.35	1.50	0.25	2.30	9.80	7.80	7.05	3.60	2.10	1.30	0.35	0.10	
9	0.30	2.00	0.25	1.80	7.95	8.25	6.45	3.75	2.10	0.90	0.35	0.10	
10	0.20	1.30	0.20	7.65	7.35	16.25	5.55	3.45	2.00	0.45	0.35	0.05	
11	0.20	0.95	0.10	7.95	9.20	9.20	5.10	3.30	2.00	0.45	0.35	0.05	
12	0.15	0.70	0.00	4.20	8.25	7.95	4.35	3.30	1.90	0.45	0.30	0.05	
13	0.20	0.65	0.00	2.30	10.60	9.20	4.05	3.30	1.90	0.45	0.25	0.05	
14	0.20	0.40	0.00	1.50	12.00	7.65	3.90	3.15	1.80	0.45	0.25	0.00	
15	0.20	0.15	0.00	1.30	10.00	6.45	4.05	3.15	1.80	0.45	0.25	0.00	
16	0.15	0.20	0.00	1.40	7.50	5.55	6.00	3.15	1.70	0.45	0.20	0.00	
17	0.15	35.30	0.00	2.30	6.30	4.95	8.85	3.15	1.70	0.45	0.20	0.00	
18	0.15	54.50	0.20	7.20	5.70	4.65	9.80	3.00	1.70	0.45	0.20	0.00	
19	0.15	24.60	0.00	5.25	5.10	4.95	6.90	3.00	1.70	0.45	0.20	0.00	
20	0.15	2.60	4.50	5.25	10.00	5.10	5.70	3.00	1.70	0.40	0.20	0.00	
21	0.15	1.30	1.60	36.90	7.95	4.80	4.95	2.90	1.70	0.40	0.20	0.05	
22	0.15	0.70	12.20	36.50	6.15	4.20	4.50	2.90	1.70	0.35	0.20	0.05	
23	0.10	0.40	17.00	15.75	6.45	5.25	4.20	2.90	1.70	0.35	0.20	0.15	
24	0.10	0.35	6.00	8.40	6.60	42.10	3.90	2.90	1.70	0.35	0.15	0.20	
25	0.10	0.40	3.30	6.00	5.10	14.80	3.60	2.90	1.70	0.35	0.15	0.20	
26	0.10	0.30	2.90	4.80	4.35	10.00	3.30	2.80	1.70	0.35	0.15	0.20	
27	0.05	0.30	2.60	4.05	3.60	11.00	3.00	2.60	1.70	0.35	0.15	0.20	
28	0.05	0.30	4.35	4.65	3.30	14.40	2.90	2.50	1.60	0.35	0.10	0.20	
29	0.05	0.30	3.15	4.80	3.15	8.70	2.90	2.50	1.60	0.35		0.30	
30	0.05	0.30	1.70	4.95	8.25	8.70	3.00	2.50	1.60	0.30		0.45	
31		0.40		12.40	7.50		3.00		1.60	0.30		0.65	
TOTAL	8.25	174.75	65.75	197.55	323.87	413.84	175.45	97.60	58.50	21.20	6.50	3.75	1547.01 CMSDAY
MEAN	0.27	5.64	2.19	6.37	10.45	13.79	5.66	3.25	1.89	0.68	0.23	0.12	4.24 CMS
MAX	0.85	54.50	17.00	36.90	43.85	75.06	13.60	5.10	2.40	1.60	0.35	0.65	75.06 CMS
MIN	0.05	0.10	0.00	0.65	3.15	4.20	2.90	2.50	1.60	0.30	0.10	0.00	0.00 CMS
RUNOFF	0.713	15.098	5.681	17.069	27.982	35.756	15.159	8.433	5.054	1.832	0.562	0.324	133.661 MCM

MOMENTARY PEAK 149.00 CMS, AT 4.10 M (A.D), AT 7.00 HOURS, ON SEP 7, 1981

RUNOFF YIELD 0.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 316.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

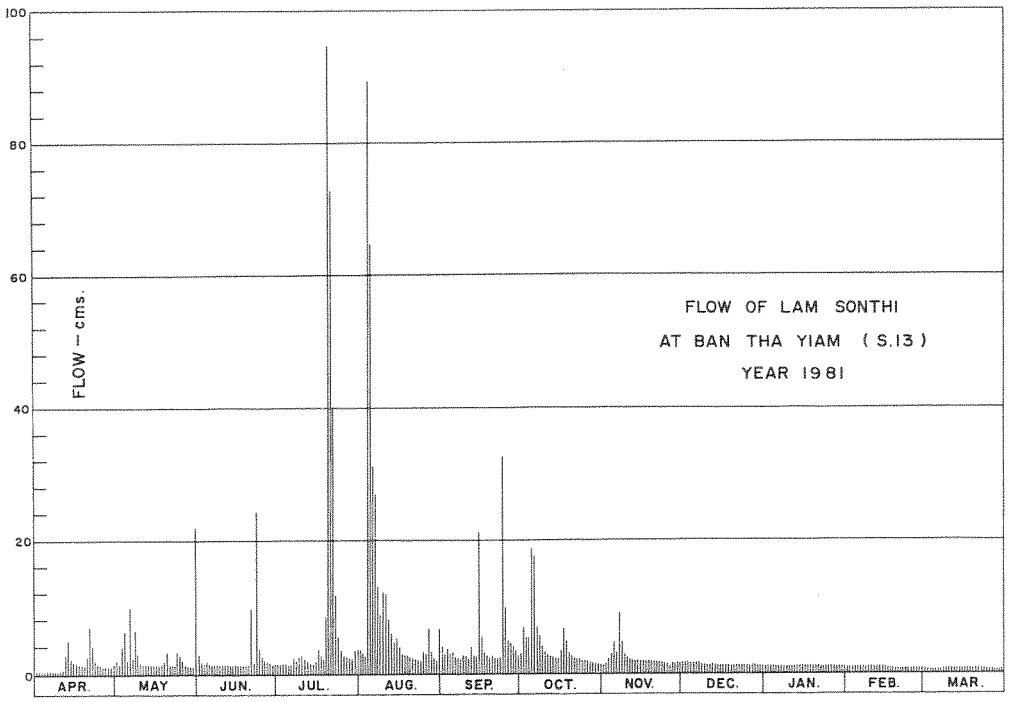
LAM SONTHI AT BAN THA YIAM, LOP BURI (S.13)

LOCATION	LAT. 15°-20'-21" N., LONG. 101°-22'-30" E., ON LEFT BANK AT BAN THA YIAM, AMPHOE CHAI BADAN, LOP BURI.
DRAINAGE AREA	359 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-R.I.D.
LOCATION	ABOUT 15 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+8.697 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 129 DISCHARGE MEASUREMENTS MADE IN 1981

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.56	0.73	0.48	0.83	0.86	0.68	0.52	0.47	0.41	0.38	0.33	
2	0.00	0.51	0.57	0.49	0.75	0.66	1.34	0.52	0.47	0.41	0.38	0.33	
3	0.00	0.79	0.53	0.53	0.66	0.90	1.01	0.60	0.46	0.41	0.38	0.33	
4	0.00	1.21	0.57	0.50	4.92	0.70	0.99	4.20	0.46	0.41	0.38	0.33	
5	0.00	0.54	0.51	0.52	6.29	0.75	2.51	0.98	0.46	0.40	0.38	0.32	
6	0.00	1.52	0.48	0.52	3.20	0.66	2.30	0.73	0.46	0.40	0.37	0.32	
7	0.00	0.66	0.48	0.61	3.06	0.62	1.23	1.55	0.46	0.40	0.37	0.32	
8	0.00	1.21	0.46	0.56	1.54	0.61	0.98	0.98	0.45	0.40	0.37	0.32	
9	0.00	0.60	0.46	0.64	1.47	0.70	0.83	0.72	0.45	0.40	0.37	0.32	
10	0.00	0.53	0.46	0.71	1.85	0.70	0.79	0.66	0.45	0.40	0.37	0.32	
11	0.00	0.49	0.47	0.61	1.80	0.62	0.71	0.62	0.44	0.39	0.36	0.31	
12	0.00	0.48	0.45	0.58	1.23	0.87	0.68	0.59	0.44	0.39	0.36	0.31	
13	1.01	0.46	0.44	0.53	1.13	0.66	0.66	0.58	0.44	0.39	0.36	0.31	
14	0.66	0.45	0.44	0.51	0.89	0.72	0.64	0.56	0.44	0.39	0.36	0.31	
15	0.58	0.44	0.47	0.48	1.03	2.64	0.62	0.56	0.43	0.39	0.36	0.31	
16	0.53	0.44	0.48	0.87	0.79	1.00	0.79	0.55	0.43	0.39	0.36	0.31	
17	0.48	0.44	0.47	0.79	0.73	0.73	1.27	0.56	0.42	0.39	0.35	0.30	
18	0.45	0.49	0.45	0.61	0.70	0.67	0.94	0.57	0.42	0.39	0.35	0.30	
19	0.47	0.52	0.47	1.14	0.67	0.66	0.75	0.56	0.42	0.39	0.35	0.29	
20	0.45	0.86	0.45	3.81	0.65	0.68	0.70	0.55	0.42	0.39	0.35	0.29	
21	1.29	0.46	1.52	6.38	0.63	0.65	0.65	0.54	0.42	0.39	0.34	0.28	
22	0.86	0.45	0.57	2.72	0.61	0.62	0.62	0.53	0.42	0.39	0.34	0.28	
23	0.55	0.44	2.89	1.48	0.60	0.71	0.62	0.52	0.42	0.39	0.34	0.28	
24	0.51	0.76	0.74	1.00	0.59	3.48	0.59	0.51	0.42	0.39	0.34	0.28	
25	0.47	0.68	0.66	0.84	0.78	1.68	0.56	0.50	0.41	0.39	0.34	0.28	
26	0.46	0.53	0.56	0.72	0.69	1.02	0.55	0.49	0.41	0.39	0.33	0.28	
27	0.44	0.48	0.53	0.67	1.25	1.01	0.55	0.48	0.41	0.38	0.33	0.28	
28	0.43	0.45	0.52	0.64	0.65	0.92	0.54	0.50	0.41	0.38	0.33	0.28	
29	0.41	0.44	0.50	0.64	0.61	0.86	0.53	0.49	0.41	0.38		0.28	
30	0.40	0.43	0.49	0.83	0.58	0.72	0.52	0.48	0.41	0.38		0.28	
31		2.63		0.83	1.23		0.52		0.41	0.38		0.40	
MEAN	0.35	0.68	0.63	1.04	1.37	0.94	0.86	0.74	0.43	0.39	0.36	0.31	
MAX	1.29	2.63	2.89	6.38	6.29	3.48	2.51	4.20	0.47	0.41	0.38	0.40	6.38
MIN	0.00	0.43	0.44	0.48	0.58	0.61	0.52	0.48	0.41	0.38	0.33	0.28	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.79 M (A.D), AT 7.00 HOURS, ON AUG 5, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.15 M (A.D)
LEFT BANK ELEVATION 8.87 M (A.D)
RIGHT BANK ELEVATION 8.77 M (A.D), DRAINAGE AREA 359 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	1.80	2.81	1.40	3.51	3.72	2.48	1.60	1.35	1.05	0.90	0.65	
2	0.00	1.55	1.85	1.45	2.95	2.36	7.36	1.60	1.35	1.05	0.90	0.65	
3	0.00	3.23	1.65	1.65	2.36	4.00	4.77	2.00	1.30	1.05	0.90	0.65	
4	0.00	6.28	1.85	1.50	58.42	2.60	4.63	44.80	1.30	1.05	0.90	0.65	
5	0.00	1.70	1.55	1.60	89.95	2.95	19.52	4.56	1.30	1.00	0.90	0.60	
6	0.00	8.98	1.40	1.60	28.60	2.36	17.00	2.81	1.30	1.00	0.85	0.60	
7	0.00	2.36	1.40	2.06	26.64	2.12	6.44	9.25	1.30	1.00	0.85	0.60	
8	0.00	6.28	1.30	1.80	9.16	2.06	4.56	4.56	1.25	1.00	0.85	0.60	
9	0.00	2.00	1.30	2.24	8.53	2.60	3.51	2.74	1.25	1.00	0.85	0.60	
10	0.00	1.65	1.30	2.67	12.25	2.60	3.23	2.36	1.25	1.00	0.85	0.60	
11	0.00	1.45	1.35	2.06	11.74	2.12	2.67	2.12	1.20	0.95	0.80	0.55	
12	0.00	1.40	1.25	1.90	6.44	3.79	2.48	1.95	1.20	0.95	0.80	0.55	
13	4.77	1.30	1.20	1.65	5.64	2.36	2.36	1.90	1.20	0.95	0.80	0.55	
14	2.36	1.25	1.20	1.55	3.93	2.74	2.24	1.80	1.20	0.95	0.80	0.55	
15	1.90	1.20	1.35	1.40	4.91	21.08	2.12	1.80	1.15	0.95	0.80	0.55	
16	1.65	1.20	1.40	3.79	3.23	4.70	3.23	1.75	1.15	0.95	0.80	0.55	
17	1.40	1.20	1.35	3.23	2.81	2.81	6.76	1.80	1.10	0.95	0.75	0.50	
18	1.25	1.45	1.25	2.06	2.60	2.42	4.28	1.85	1.10	0.95	0.75	0.50	
19	1.35	1.60	1.35	5.72	2.42	2.36	2.95	1.80	1.10	0.95	0.75	0.45	
20	1.25	3.72	1.25	38.07	2.30	2.48	2.60	1.75	1.10	0.95	0.75	0.45	
21	6.92	1.30	8.98	92.20	2.18	2.30	2.30	1.70	1.10	0.95	0.70	0.40	
22	3.72	1.25	1.85	22.06	2.06	2.12	2.12	1.65	1.10	0.95	0.70	0.40	
23	1.75	1.20	24.27	8.62	2.00	2.67	2.12	1.60	1.10	0.95	0.70	0.40	
24	1.55	3.02	2.88	4.70	1.95	32.70	1.95	1.55	1.10	0.95	0.70	0.40	
25	1.35	2.48	2.36	3.58	3.16	10.52	1.80	1.50	1.05	0.95	0.70	0.40	
26	1.30	1.65	1.80	2.74	2.54	4.84	1.75	1.45	1.05	0.95	0.65	0.40	
27	1.20	1.40	1.65	2.42	6.60	4.77	1.75	1.40	1.05	0.90	0.65	0.40	
28	1.15	1.25	1.60	2.24	2.30	4.14	1.70	1.50	1.05	0.90	0.65	0.40	
29	1.05	1.20	1.50	2.24	2.06	3.72	1.65	1.45	1.05	0.90		0.40	
30	1.00	1.15	1.45	3.51	1.90	2.74	1.60	1.40	1.05	0.90		0.40	
31		20.96		3.51	6.44		1.60		1.05	0.90		1.00	
TOTAL	36.92	88.46	77.70	227.22	321.58	144.75	125.53	110.00	36.20	29.90	22.00	16.40	1236.66 CMSDAY
MEAN	1.23	2.85	2.59	7.33	10.37	4.82	4.05	3.67	1.17	0.96	0.79	0.53	3.39 CMS
MAX	6.92	20.96	24.27	92.20	89.95	32.70	19.52	44.80	1.35	1.05	0.90	1.00	92.20 CMS
MIN	0.00	1.15	1.20	1.40	1.90	2.06	1.60	1.40	1.05	0.90	0.65	0.40	0.00 CMS
RUNOFF	3.190	7.643	6.713	19.632	27.784	12.506	10.846	9.504	3.128	2.583	1.901	1.417	106.847 MCM

MOMENTARY PEAK 102.93 CMS, AT 6.79 M (A.D), AT 7.00 HOURS, ON AUG 5, 1981

RUNOFF YIELD 9.44 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 286.71 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

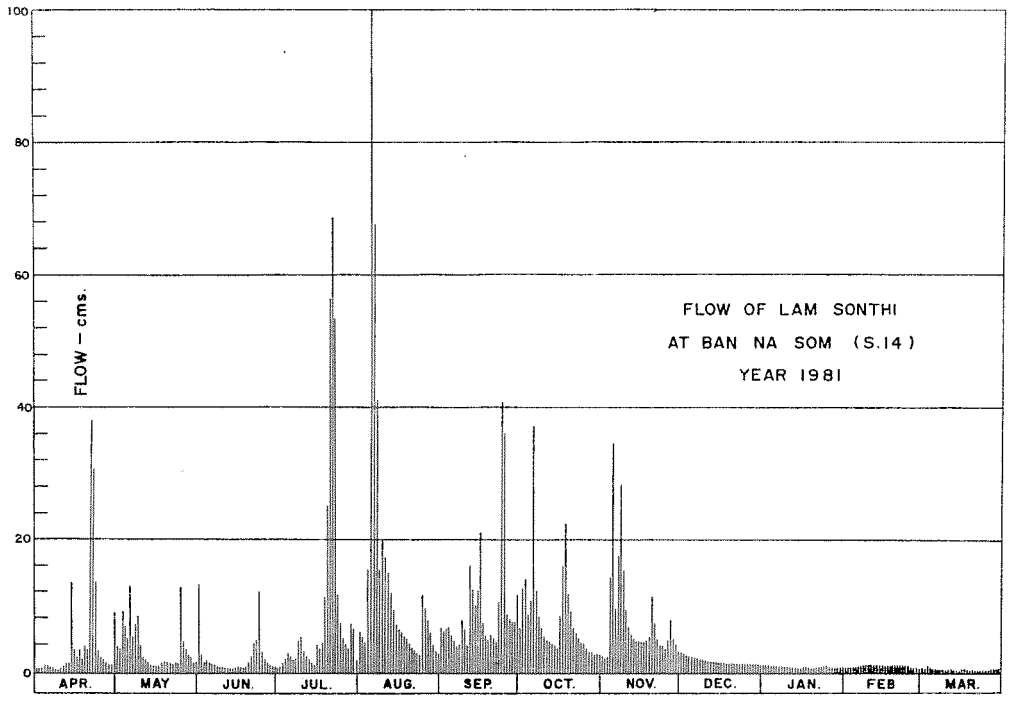
LAM SONTHI AT BAN NA SOM, LOP BURI (S.14)

LOCATION	LAT. 15°-13'-24" N., LONG. 101°-16'-51" E., ON LEFT BANK AT THE BRIDGE OF LAM SONTHI, 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 AT	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 158 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.28	1.94	2.82	1.36	2.13	2.17	2.16	1.67	1.73	1.46	1.38	1.34	
2	1.29	1.62	1.69	1.35	2.03	2.12	2.73	1.64	1.70	1.46	1.38	1.37	
3	1.31	2.24	1.54	1.54	1.85	2.17	2.90	1.67	1.68	1.45	1.39	1.45	
4	1.42	2.41	1.56	1.58	2.43	2.20	2.33	2.59	1.67	1.45	1.38	1.35	
5	1.38	2.01	1.50	1.74	5.78	2.04	2.60	4.42	1.66	1.44	1.40	1.34	
6	1.38	2.79	1.44	1.63	7.55	1.96	4.55	2.47	1.65	1.44	1.40	1.35	
7	1.31	2.07	1.44	1.58	5.72	1.83	2.99	3.20	1.64	1.42	1.41	1.32	
8	1.28	2.23	1.39	1.63	4.01	1.78	2.36	3.99	1.62	1.41	1.41	1.30	
9	1.27	2.36	1.37	1.96	3.03	2.30	2.16	2.96	1.60	1.40	1.41	1.30	
10	1.26	1.96	1.36	2.02	3.37	2.16	2.04	2.44	1.59	1.39	1.43	1.29	
11	1.32	1.65	1.37	1.77	3.21	1.88	2.00	2.21	1.58	1.39	1.43	1.28	
12	1.48	1.56	1.36	1.63	2.92	3.06	1.95	2.06	1.58	1.39	1.43	1.31	
13	1.48	1.49	1.33	1.55	2.64	2.86	1.92	1.99	1.58	1.38	1.42	1.28	
14	2.87	1.47	1.32	1.47	2.36	2.53	1.86	1.94	1.56	1.38	1.43	1.28	
15	1.82	1.45	1.33	1.41	2.23	2.91	1.84	1.95	1.55	1.38	1.42	1.26	
16	1.60	1.43	1.37	1.90	2.14	3.48	2.14	1.94	1.55	1.38	1.43	1.25	
17	1.80	1.40	1.36	1.81	2.06	2.31	2.91	1.95	1.54	1.39	1.45	1.34	
18	1.54	1.47	1.35	2.01	1.99	2.05	3.58	1.98	1.53	1.39	1.44	1.25	
19	1.85	1.52	1.34	2.69	2.03	1.95	2.75	2.08	1.52	1.38	1.44	1.24	
20	1.79	1.52	1.50	3.33	1.93	2.06	2.43	2.65	1.51	1.38	1.45	1.26	
21	1.71	1.49	1.60	5.55	1.83	2.03	2.20	2.05	1.50	1.39	1.46	1.25	
22	4.62	1.45	1.92	6.20	1.78	1.92	2.10	1.95	1.50	1.39	1.45	1.24	
23	3.00	1.48	1.99	5.15	1.74	2.58	2.03	1.88	1.50	1.39	1.44	1.24	
24	1.87	1.45	2.73	2.66	1.70	2.51	1.98	1.85	1.50	1.40	1.44	1.25	
25	1.65	2.78	1.78	2.25	2.68	4.77	1.85	1.82	1.49	1.40	1.45	1.25	
26	1.57	2.08	1.61	2.03	2.42	2.57	1.82	2.09	1.49	1.38	1.40	1.26	
27	1.54	1.77	1.50	1.92	2.26	2.46	1.77	2.32	1.48	1.38	1.34	1.27	
28	1.44	1.65	1.47	1.84	2.07	2.46	1.76	2.01	1.48	1.37	1.34	1.37	
29	1.41	1.61	1.42	2.24	1.84	2.47	1.72	1.89	1.47	1.37		1.32	
30	2.40	1.49	1.39	2.10	1.74	2.66	1.70	1.78	1.47	1.37		1.38	
31		1.49		0.00	1.71		1.70		1.46	1.37		1.32	
MEAN	1.73	1.78	1.57	2.19	2.68	2.41	2.28	2.25	1.56	1.40	1.42	1.30	
MAX	4.62	2.79	2.82	6.20	7.55	4.77	4.55	4.42	1.73	1.46	1.46	1.45	7.55
MIN	1.26	1.40	1.32	0.00	1.70	1.78	1.70	1.64	1.46	1.37	1.34	1.24	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.62 M (A.D), AT 14.00 HOURS, ON AUG 6, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 28.00 M (A.D)
LEFT BANK ELEVATION 9.86 M (A.D)
RIGHT BANK ELEVATION 9.19 M (A.D), DRAINAGE AREA 1247 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.32	4.42	13.22	0.64	6.10	6.50	6.40	2.39	2.81	1.10	0.72	0.56	
2	0.36	2.04	2.53	0.60	5.17	6.00	12.23	2.18	2.60	1.10	0.72	0.68	
3	0.44	7.20	1.54	1.54	3.70	6.50	14.10	2.39	2.46	1.05	0.76	1.05	
4	0.90	8.90	1.66	1.78	9.10	6.80	8.10	10.70	2.39	1.05	0.72	0.60	
5	0.72	4.99	1.30	2.88	59.60	5.26	10.80	34.72	2.32	1.00	0.80	0.56	
6	0.72	12.89	1.00	2.11	99.70	4.58	36.80	9.50	2.25	1.00	0.80	0.60	
7	0.44	5.53	1.00	1.78	58.40	3.54	15.18	17.70	2.18	0.90	0.85	0.48	
8	0.32	7.10	0.76	2.11	28.45	3.16	8.40	28.15	2.04	0.85	0.85	0.40	
9	0.28	8.40	0.68	4.58	15.66	7.80	6.40	14.82	1.90	0.80	0.85	0.40	
10	0.24	4.58	0.64	5.08	19.74	6.40	5.26	9.20	1.84	0.76	0.95	0.36	
11	0.48	2.25	0.68	3.09	17.82	3.94	4.90	6.90	1.78	0.76	0.95	0.32	
12	1.20	1.66	0.64	2.11	14.34	16.02	4.50	5.44	1.78	0.76	0.95	0.44	
13	1.20	1.25	0.52	1.60	11.24	13.66	4.26	4.82	1.78	0.72	0.90	0.32	
14	13.77	1.15	0.48	1.15	8.40	10.10	3.78	4.42	1.66	0.72	0.95	0.32	
15	3.46	1.05	0.52	0.85	7.10	14.22	3.62	4.50	1.60	0.72	0.90	0.24	
16	1.90	0.95	0.68	4.10	6.20	21.14	6.20	4.42	1.60	0.72	0.95	0.20	
17	3.30	0.80	0.64	3.38	5.44	7.90	14.22	4.50	1.54	0.76	1.05	0.56	
18	1.54	1.15	0.60	4.99	4.82	5.35	22.44	4.74	1.48	0.76	1.00	0.20	
19	3.70	1.42	0.56	11.79	5.17	4.50	12.45	5.62	1.42	0.72	1.00	0.16	
20	3.23	1.42	1.30	19.26	4.34	5.44	9.10	11.35	1.36	0.72	1.05	0.24	
21	2.67	1.25	1.90	55.00	3.54	5.17	6.80	5.35	1.30	0.76	1.10	0.20	
22	37.94	1.05	4.26	68.20	3.16	4.26	5.80	4.50	1.30	0.76	1.05	0.16	
23	15.30	1.20	4.82	47.10	2.88	10.60	5.17	3.94	1.30	0.76	1.00	0.16	
24	3.86	1.05	12.23	11.46	2.60	9.90	4.74	3.70	1.30	0.80	1.00	0.20	
25	2.25	12.78	3.16	7.30	11.68	40.49	3.70	3.46	1.25	0.80	1.05	0.20	
26	1.72	5.62	1.97	5.17	9.00	10.50	3.46	5.71	1.25	0.72	0.80	0.24	
27	1.54	3.09	1.30	4.26	7.40	9.40	3.09	9.00	1.20	0.72	0.56	0.28	
28	1.00	2.25	1.15	3.62	5.53	9.40	3.02	4.99	1.20	0.68	0.56	0.68	
29	0.85	1.97	0.90	7.20	3.62	9.50	2.74	4.02	1.15	0.68		0.48	
30	8.80	1.25	0.72	5.80	2.88	11.46	2.60	3.16	1.15	0.68		0.72	
31		1.25		0.00	2.67		2.60		1.10	0.68		0.48	
TOTAL	114.45	111.91	63.36	290.53	445.45	279.49	252.86	235.29	52.29	25.01	24.84	12.49	1907.97 CMSDAY
MEAN	3.81	3.61	2.11	9.37	14.37	9.32	8.16	7.84	1.69	0.81	0.89	0.40	5.23 CMS
MAX	37.94	12.89	13.22	68.20	99.70	40.49	36.80	34.72	2.81	1.10	1.10	1.05	99.70 CMS
MIN	0.24	0.80	0.48	0.00	2.60	3.16	2.60	2.18	1.10	0.68	0.56	0.16	0.00 CMS
RUNOFF	9.888	9.669	5.474	25.102	38.487	24.148	21.847	20.329	4.518	2.161	2.146	1.079	164.848 MCM

MOMENTARY PEAK 101.60 CMS, AT 7.62 M (A.D), AT 14.00 HOURS, ON AUG 6, 1981

RUNOFF YIELD 4.19 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 81.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK AT THE FOOT 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

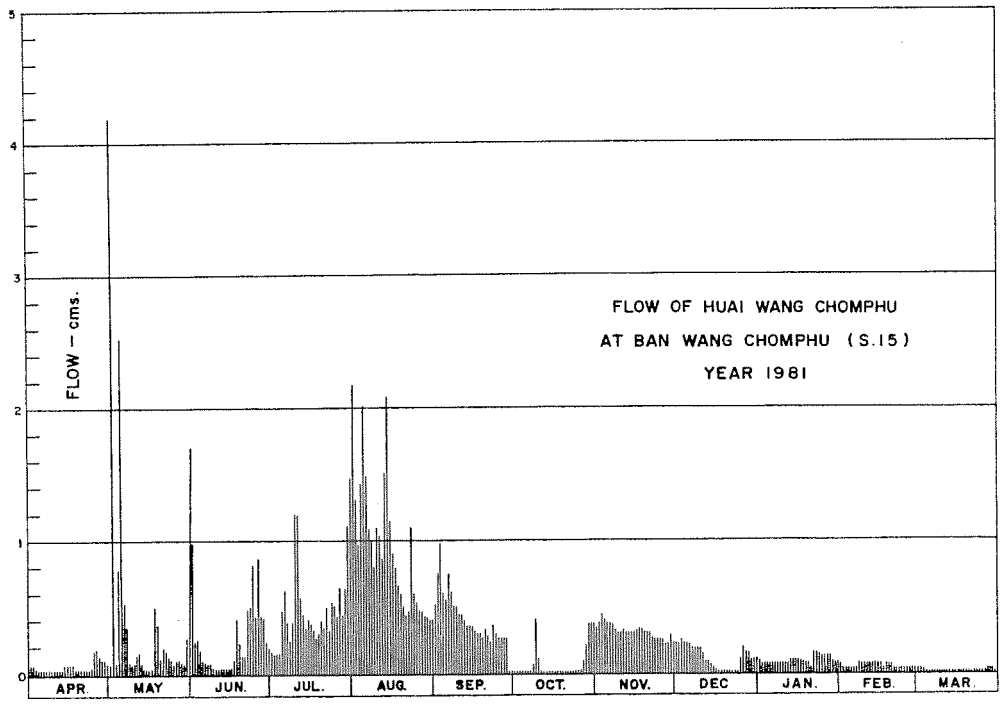
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.02	0.02	0.36	0.05	0.42	0.16	0.07	0.27	0.24	0.03	0.02	0.01	
2	0.02	0.63	0.07	0.04	0.30	0.22	0.06	0.28	0.24	0.02	0.01	0.01	
3	0.01	0.03	0.08	0.04	0.25	0.25	0.06	0.30	0.25	0.02	0.01	0.01	
4	0.01	0.02	0.06	0.05	0.34	0.18	0.06	0.29	0.24	0.02	0.01	0.00	
5	0.01	0.46	0.03	0.09	0.40	0.16	0.06	0.28	0.24	0.02	0.01	0.00	
6	0.01	0.09	0.02	0.18	0.32	0.21	0.06	0.28	0.24	0.02	0.01	0.00	
7	0.01	0.16	0.02	0.10	0.27	0.18	0.06	0.28	0.23	0.02	0.01	0.00	
8	0.01	0.03	0.02	0.07	0.26	0.15	0.06	0.27	0.23	0.02	0.02	-0.01	
9	0.01	0.02	0.01	0.11	0.22	0.15	0.29	0.26	0.23	0.02	0.02	-0.01	
10	0.01	0.02	0.01	0.29	0.27	0.13	0.12	0.26	0.23	0.02	0.02	-0.01	
11	0.01	0.04	0.01	0.29	0.26	0.13	0.07	0.27	0.21	0.02	0.02	-0.02	
12	0.01	0.05	0.01	0.17	0.22	0.12	0.06	0.26	0.20	0.02	0.02	-0.01	
13	0.01	0.02	0.01	0.12	0.26	0.11	0.06	0.26	0.20	0.03	0.02	-0.02	
14	0.02	0.01	0.01	0.10	0.41	0.11	0.06	0.26	0.18	0.03	0.02	-0.03	
15	0.02	0.01	0.01	0.12	0.29	0.11	0.06	0.26	0.13	0.03	0.02	-0.03	
16	0.02	0.01	0.01	0.11	0.24	0.10	0.08	0.26	0.11	0.03	0.02	0.00	
17	0.02	0.01	0.02	0.10	0.22	0.09	0.06	0.27	0.10	0.02	0.01	0.00	
18	0.01	0.07	0.12	0.08	0.19	0.09	0.06	0.27	0.10	0.02	0.02	-0.01	
19	0.01	0.15	0.07	0.09	0.18	0.08	0.08	0.26	0.10	0.02	0.02	-0.04	
20	0.01	0.04	0.04	0.12	0.16	0.10	0.06	0.26	0.10	0.02	0.02	-0.04	
21	0.01	0.03	0.04	0.10	0.14	0.08	0.05	0.26	0.10	0.01	0.01	-0.02	
22	0.01	0.06	0.14	0.15	0.12	0.07	0.05	0.25	0.09	0.05	0.01	0.00	
23	0.01	0.03	0.15	0.10	0.27	0.11	0.08	0.25	0.07	0.05	0.01	0.00	
24	0.01	0.03	0.22	0.16	0.18	0.10	0.06	0.25	0.04	0.04	0.01	-0.01	
25	0.05	0.02	0.13	0.15	0.16	0.08	0.06	0.25	0.04	0.04	0.01	-0.01	
26	0.06	0.03	0.23	0.13	0.14	0.08	0.05	0.25	0.06	0.04	0.01	-0.01	
27	0.04	0.03	0.13	0.19	0.14	0.08	0.04	0.24	0.05	0.04	0.01	0.01	
28	0.03	0.02	0.12	0.13	0.13	0.08	0.24	0.22	0.05	0.04	0.01	0.01	
29	0.03	0.02	0.08	0.19	0.13	0.07	0.28	0.23	0.03	0.02		0.01	
30	0.02	0.04	0.07	0.27	0.12	0.07	0.28	0.24	0.03	0.02		0.00	
31		0.28		0.32	0.12		0.28		0.03	0.02		-0.01	
MEAN	0.02	0.08	0.08	0.14	0.23	0.12	0.10	0.26	0.14	0.03	0.01	-0.01	
MAX	0.06	0.63	0.36	0.32	0.42	0.25	0.29	0.30	0.25	0.05	0.02	0.01	0.63
MIN	0.01	0.01	0.01	0.04	0.12	0.07	0.04	0.22	0.03	0.01	0.01	-0.04	-0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT — 0.80 M (A.D), AT 5.00 HOURS, ON JUN 1, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.09 M (A.D)

LEFT BANK ELEVATION — 4.65 M (A.D)

RIGHT BANK ELEVATION — 4.30 M (A.D), DRAINAGE AREA 15 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.07	1.70	0.16	2.17	0.54	0.00	0.33	0.22	0.10	0.07	0.03	
2	0.07	4.19	1.23	0.13	1.26	0.80	0.00	0.37	0.22	0.07	0.03	0.03	
3	0.03	0.10	0.26	0.13	0.97	0.97	0.00	0.44	0.26	0.07	0.03	0.03	
4	0.03	0.07	0.20	0.16	1.56	0.61	0.00	0.40	0.22	0.07	0.03	0.00	
5	0.03	2.52	0.10	0.30	2.00	0.54	0.00	0.37	0.22	0.07	0.03	0.00	
6	0.03	0.30	0.07	0.61	1.41	0.74	0.00	0.37	0.22	0.07	0.03	0.00	
7	0.03	0.54	0.07	0.33	1.09	0.61	0.00	0.37	0.19	0.07	0.03	0.00	
8	0.03	0.10	0.07	0.23	1.03	0.50	0.00	0.33	0.19	0.07	0.07	0.00	
9	0.03	0.07	0.03	0.36	0.80	0.50	0.40	0.30	0.15	0.07	0.07	0.00	
10	0.03	0.07	0.03	1.20	1.09	0.43	0.02	0.30	0.19	0.07	0.07	0.00	
11	0.03	0.13	0.03	1.20	1.03	0.43	0.00	0.33	0.12	0.07	0.07	0.00	
12	0.03	0.16	0.03	0.57	0.80	0.40	0.00	0.30	0.08	0.07	0.07	0.00	
13	0.03	0.07	0.03	0.40	1.03	0.36	0.00	0.30	0.08	0.10	0.07	0.00	
14	0.07	0.03	0.03	0.33	2.09	0.36	0.00	0.30	0.06	0.10	0.07	0.00	
15	0.07	0.03	0.03	0.40	1.20	0.36	0.00	0.30	0.03	0.10	0.07	0.00	
16	0.07	0.03	0.03	0.36	0.91	0.33	0.00	0.30	0.01	0.10	0.07	0.00	
17	0.07	0.03	0.07	0.33	0.80	0.30	0.00	0.33	0.00	0.07	0.03	0.00	
18	0.03	0.23	0.40	0.26	0.64	0.30	0.00	0.33	0.00	0.07	0.07	0.00	
19	0.03	0.50	0.23	0.30	0.61	0.26	0.00	0.30	0.00	0.07	0.07	0.00	
20	0.03	0.13	0.13	0.40	0.54	0.33	0.00	0.30	0.00	0.07	0.07	0.00	
21	0.03	0.10	0.13	0.33	0.47	0.26	0.00	0.30	0.00	0.03	0.03	0.00	
22	0.03	0.20	0.47	0.50	0.40	0.23	0.00	0.26	0.00	0.16	0.03	0.00	
23	0.03	0.10	0.50	0.33	1.09	0.36	0.00	0.26	0.00	0.16	0.03	0.00	
24	0.03	0.10	0.80	0.54	0.61	0.33	0.00	0.26	0.00	0.13	0.03	0.00	
25	0.16	0.07	0.43	0.50	0.54	0.26	0.00	0.26	0.00	0.13	0.03	0.00	
26	0.20	0.10	0.85	0.43	0.47	0.26	0.00	0.26	0.20	0.13	0.03	0.00	
27	0.13	0.10	0.43	0.64	0.47	0.26	0.00	0.22	0.16	0.13	0.03	0.03	
28	0.10	0.07	0.40	0.43	0.43	0.26	0.22	0.15	0.16	0.13	0.03	0.03	
29	0.10	0.07	0.26	0.64	0.43	0.00	0.37	0.19	0.10	0.07		0.03	
30	0.07	0.13	0.23	1.09	0.40	0.00	0.37	0.22	0.10	0.07		0.00	
31		1.14		1.41	0.40		0.37		0.10	0.07		0.00	
TOTAL	1.72	11.55	8.27	15.00	28.74	11.89	1.75	9.05	3.32	2.76	1.36	0.18	95.59 CMSDAY
MEAN	0.06	0.37	0.28	0.48	0.93	0.40	0.06	0.30	0.11	0.09	0.05	0.01	0.26 CMS
MAX	0.20	4.19	1.70	1.41	2.17	0.97	0.40	0.44	0.26	0.16	0.07	0.03	4.19 CMS
MIN	0.03	0.03	0.03	0.13	0.40	0.00	0.00	0.15	0.00	0.03	0.03	0.00	0.00 CMS
RUNOFF	0.149	0.998	0.715	1.296	2.483	1.027	0.151	0.782	0.287	0.238	0.118	0.016	8.259 MCM

MOMENTARY PEAK 6.30 CMS, AT 0.80 M (A.D), AT 5.00 HOURS, ON JUN 1, 1981

RUNOFF YIELD 17.46 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 420.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

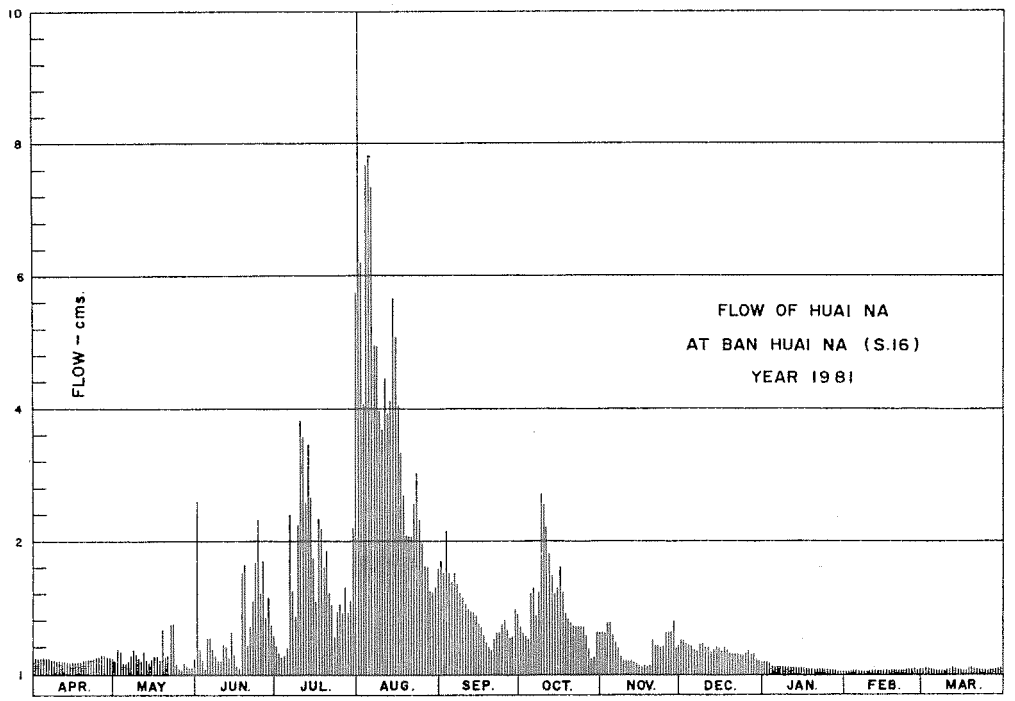
HUAI NA AT BAN HUAI NA, PHETCHABUN (S.16)

LOCATION	LAT. 16°-16'-00" N., LONG. 101°-03'-32" E., ON RIGHT BANK ABOUT 30 METERS DOWNSTREAM FROM THE BRIDGE AT BAN HUAI NA, AMPHOE MUANG, PHETCHABUN.
DRAINAGE AREA	65 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	ON RIGHT BANK AT THE FOOT 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.13	0.51	0.19	1.06	0.41	0.26	0.25	0.22	0.12	0.02	0.08	
2	0.15	0.19	0.19	0.17	0.71	0.39	0.25	0.25	0.22	0.12	0.03	0.08	
3	0.15	0.18	0.16	0.15	0.64	0.46	0.24	0.28	0.21	0.11	0.04	0.09	
4	0.14	0.12	0.29	0.16	0.89	0.39	0.22	0.28	0.20	0.10	0.04	0.08	
5	0.14	0.12	0.23	0.20	0.90	0.37	0.35	0.24	0.19	0.10	0.04	0.07	
6	0.14	0.13	0.23	0.49	0.87	0.39	0.36	0.21	0.18	0.09	0.05	0.06	
7	0.14	0.16	0.18	0.35	0.71	0.37	0.30	0.19	0.18	0.09	0.06	0.06	
8	0.13	0.19	0.16	0.30	0.71	0.35	0.36	0.16	0.21	0.09	0.04	0.05	
9	0.13	0.16	0.13	0.53	0.63	0.34	0.52	0.13	0.21	0.09	0.04	0.04	
10	0.13	0.14	0.13	0.62	0.61	0.33	0.50	0.13	0.20	0.09	0.04	0.06	
11	0.13	0.13	0.21	0.58	0.67	0.32	0.46	0.13	0.20	0.09	0.05	0.10	
12	0.13	0.18	0.20	0.51	0.63	0.31	0.39	0.13	0.18	0.09	0.05	0.10	
13	0.13	0.12	0.14	0.59	0.65	0.31	0.38	0.13	0.19	0.09	0.05	0.09	
14	0.13	0.13	0.26	0.48	0.76	0.31	0.35	0.12	0.20	0.09	0.05	0.08	
15	0.13	0.15	0.16	0.40	0.68	0.28	0.36	0.11	0.19	0.09	0.05	0.07	
16	0.13	0.16	0.10	0.33	0.63	0.27	0.40	0.10	0.18	0.08	0.05	0.07	
17	0.13	0.16	0.08	0.48	0.55	0.23	0.34	0.11	0.19	0.08	0.05	0.07	
18	0.13	0.13	0.39	0.46	0.52	0.22	0.30	0.10	0.18	0.07	0.05	0.09	
19	0.14	0.26	0.25	0.40	0.45	0.19	0.29	0.09	0.17	0.07	0.05	0.08	
20	0.14	0.15	0.21	0.43	0.45	0.18	0.28	0.22	0.17	0.07	0.06	0.08	
21	0.14	0.17	0.28	0.34	0.45	0.23	0.27	0.20	0.17	0.06	0.06	0.07	
22	0.14	0.28	0.35	0.32	0.51	0.25	0.27	0.20	0.17	0.05	0.05	0.06	
23	0.14	0.28	0.42	0.23	0.55	0.25	0.27	0.20	0.17	0.05	0.07	0.06	
24	0.15	0.11	0.48	0.32	0.47	0.28	0.27	0.20	0.17	0.05	0.08	0.07	
25	0.15	0.06	0.35	0.33	0.45	0.29	0.27	0.25	0.17	0.05	0.08	0.06	
26	0.16	0.05	0.41	0.31	0.40	0.25	0.23	0.25	0.18	0.04	0.07	0.06	
27	0.16	0.13	0.30	0.36	0.40	0.23	0.15	0.25	0.17	0.04	0.08	0.06	
28	0.15	0.08	0.34	0.31	0.35	0.24	0.13	0.29	0.16	0.04	0.07	0.08	
29	0.15	0.06	0.28	0.34	0.35	0.28	0.15	0.19	0.13	0.03		0.08	
30	0.15	0.06	0.24	0.52	0.36	0.27	0.25	0.20	0.13	0.03		0.10	
31		0.15		0.71	0.40		0.25		0.12	0.02		0.10	
MEAN	0.14	0.15	0.26	0.38	0.59	0.30	0.30	0.19	0.18	0.07	0.05	0.07	
MAX	0.16	0.28	0.51	0.71	1.06	0.46	0.52	0.29	0.22	0.12	0.08	0.10	1.06
MIN	0.13	0.05	0.08	0.15	0.35	0.18	0.13	0.09	0.12	0.02	0.02	0.04	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.06 M (A.D), AT 4.00 HOURS, ON AUG 1, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.00 M (A.D)
LEFT BANK ELEVATION 7.06 M (A.D)
RIGHT BANK ELEVATION 8.34 M (A.D), DRAINAGE AREA 65 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.19	2.60	0.37	10.88	1.69	0.67	0.62	0.49	0.16	0.02	0.08	
2	0.25	0.37	0.37	0.31	4.94	1.52	0.62	0.62	0.49	0.16	0.03	0.08	
3	0.25	0.34	0.28	0.25	4.05	2.14	0.58	0.76	0.44	0.13	0.04	0.09	
4	0.22	0.16	0.80	0.28	7.64	1.52	0.49	0.76	0.40	0.10	0.04	0.08	
5	0.22	0.16	0.53	0.40	7.80	1.37	1.22	0.58	0.37	0.10	0.04	0.07	
6	0.22	0.19	0.53	2.41	7.32	1.52	1.30	0.44	0.34	0.09	0.05	0.06	
7	0.22	0.28	0.34	1.22	4.94	1.37	0.85	0.37	0.34	0.09	0.06	0.06	
8	0.19	0.37	0.28	0.85	4.94	1.22	1.30	0.28	0.44	0.09	0.04	0.05	
9	0.19	0.28	0.19	2.81	3.92	1.15	2.71	0.19	0.44	0.09	0.04	0.04	
10	0.19	0.22	0.19	3.80	3.67	1.07	2.50	0.19	0.40	0.09	0.04	0.06	
11	0.19	0.19	0.44	3.34	4.42	1.00	2.14	0.19	0.40	0.09	0.05	0.10	
12	0.19	0.34	0.40	2.60	3.92	0.92	1.52	0.19	0.34	0.09	0.05	0.10	
13	0.19	0.16	0.22	3.44	4.17	0.92	1.45	0.19	0.37	0.09	0.05	0.09	
14	0.19	0.19	0.67	2.32	5.64	0.92	1.22	0.16	0.40	0.09	0.05	0.08	
15	0.19	0.25	0.28	1.60	4.55	0.76	1.30	0.13	0.37	0.09	0.05	0.07	
16	0.19	0.28	0.10	1.07	3.92	0.71	1.60	0.10	0.34	0.08	0.05	0.07	
17	0.19	0.28	0.08	2.32	3.02	0.53	1.15	0.13	0.37	0.08	0.05	0.07	
18	0.19	0.19	1.52	2.14	2.71	0.49	0.85	0.10	0.34	0.07	0.05	0.09	
19	0.22	0.67	0.62	1.60	2.05	0.37	0.80	0.09	0.31	0.07	0.05	0.08	
20	0.22	0.25	0.44	1.87	2.09	0.34	0.76	0.49	0.31	0.07	0.06	0.08	
21	0.22	0.31	0.76	1.15	2.05	0.53	0.71	0.40	0.31	0.06	0.06	0.07	
22	0.22	0.76	1.22	1.00	2.60	0.62	0.71	0.40	0.31	0.05	0.05	0.06	
23	0.22	0.76	1.78	0.53	3.02	0.62	0.71	0.40	0.31	0.05	0.07	0.06	
24	0.25	0.13	2.32	1.00	2.23	0.76	0.71	0.40	0.31	0.05	0.08	0.07	
25	0.25	0.06	1.22	1.07	2.05	0.80	0.71	0.62	0.31	0.05	0.08	0.06	
26	0.28	0.05	1.69	0.92	1.60	0.62	0.53	0.62	0.34	0.04	0.07	0.06	
27	0.28	0.19	0.85	1.30	1.60	0.53	0.25	0.62	0.31	0.04	0.08	0.06	
28	0.25	0.08	1.15	0.92	1.22	0.58	0.19	0.80	0.28	0.04	0.07	0.08	
29	0.25	0.06	0.76	1.15	1.22	0.76	0.25	0.37	0.19	0.03		0.08	
30	0.25	0.06	0.58	2.71	1.30	0.71	0.62	0.40	0.19	0.03		0.10	
31		0.25		4.94	1.60		0.62		0.16	0.02		0.10	
TOTAL	6.63	8.07	23.21	51.69	117.04	28.06	31.04	11.61	10.72	2.38	1.47	2.30	294.22 CMSDAY
MEAN	0.22	0.26	0.77	1.67	3.78	0.94	1.00	0.39	0.35	0.08	0.05	0.07	0.81 CMS
MAX	0.28	0.76	2.60	4.94	10.88	2.14	2.71	0.80	0.49	0.16	0.08	0.10	10.88 CMS
MIN	0.19	0.05	0.08	0.25	1.22	0.34	0.19	0.09	0.16	0.02	0.02	0.04	0.02 CMS
RUNOFF	0.573	0.697	2.005	4.466	10.112	2.424	2.682	1.003	0.926	0.206	0.127	0.199	25.421 MCM

MOMENTARY PEAK 10.88 CMS, AT 1.06 M (A.D), AT 4.00 HOURS, ON AUG 1, 1981

RUNOFF YIELD 12.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 167.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

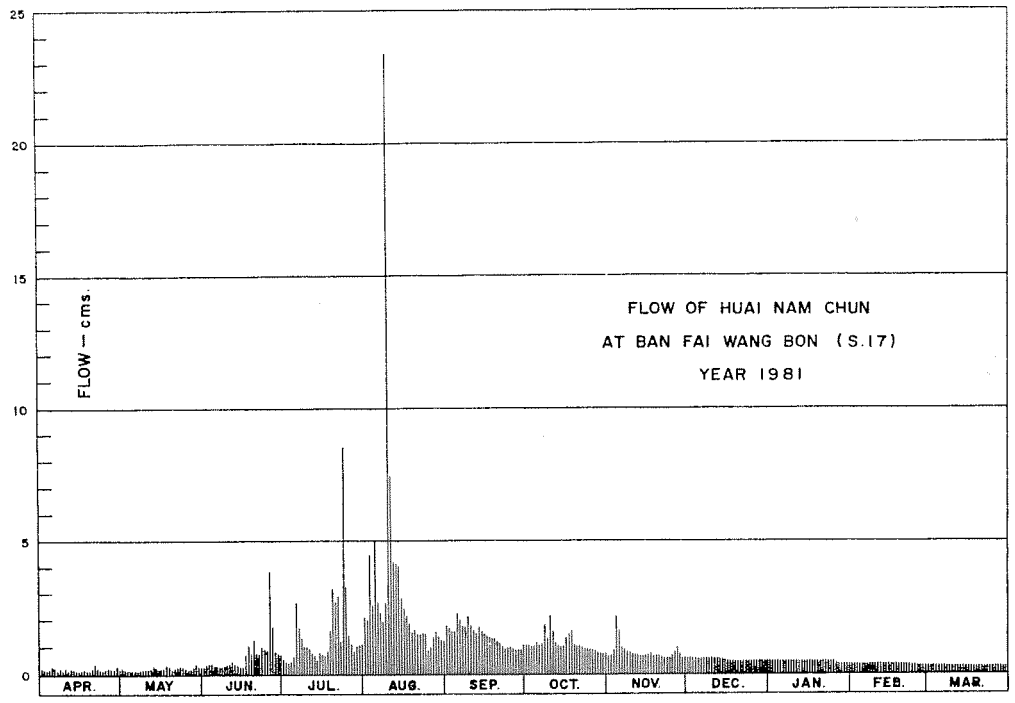
HUAI NAM CHUN AT BAN FAI WANG BON, PHETCHABUN (S.17)

LOCATION	LAT. 16°-45'-43" N., LONG. 101°-08'-44" E., ON LEFT BANK NEAR THE ABUTMENT OF 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 AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.04	0.05	0.13	0.32	0.29	0.20	0.14	0.13	0.10	0.09	0.06	
2	0.03	0.03	0.06	0.10	0.31	0.28	0.20	0.14	0.13	0.10	0.08	0.06	
3	0.02	0.02	0.08	0.10	0.49	0.26	0.19	0.17	0.13	0.10	0.08	0.06	
4	0.04	0.02	0.08	0.10	0.36	0.26	0.19	0.32	0.13	0.10	0.08	0.06	
5	0.06	0.02	0.05	0.14	0.52	0.33	0.22	0.28	0.12	0.10	0.08	0.06	
6	0.03	0.02	0.07	0.37	0.37	0.31	0.21	0.20	0.12	0.10	0.08	0.06	
7	0.02	0.02	0.05	0.28	0.33	0.28	0.21	0.18	0.12	0.10	0.08	0.06	
8	0.03	0.02	0.05	0.25	0.30	0.28	0.29	0.16	0.12	0.10	0.08	0.06	
9	0.02	0.03	0.06	0.20	0.36	0.32	0.23	0.15	0.12	0.10	0.08	0.06	
10	0.04	0.03	0.09	0.20	1.11	0.29	0.32	0.15	0.12	0.10	0.08	0.06	
11	0.02	0.03	0.09	0.19	0.61	0.27	0.25	0.15	0.12	0.10	0.08	0.06	
12	0.03	0.03	0.11	0.15	0.47	0.25	0.22	0.14	0.12	0.10	0.08	0.06	
13	0.03	0.05	0.09	0.14	0.47	0.28	0.20	0.14	0.12	0.10	0.08	0.06	
14	0.02	0.04	0.07	0.11	0.46	0.26	0.19	0.14	0.12	0.10	0.08	0.06	
15	0.02	0.03	0.05	0.16	0.38	0.25	0.19	0.14	0.11	0.10	0.08	0.06	
16	0.03	0.03	0.05	0.15	0.35	0.24	0.24	0.14	0.10	0.10	0.08	0.06	
17	0.03	0.04	0.15	0.14	0.31	0.24	0.25	0.15	0.10	0.10	0.08	0.06	
18	0.02	0.06	0.20	0.17	0.29	0.23	0.26	0.14	0.10	0.10	0.08	0.06	
19	0.02	0.07	0.16	0.28	0.26	0.24	0.20	0.14	0.10	0.10	0.08	0.06	
20	0.04	0.03	0.23	0.41	0.27	0.22	0.20	0.14	0.10	0.10	0.08	0.06	
21	0.08	0.04	0.17	0.32	0.25	0.22	0.19	0.13	0.10	0.10	0.08	0.06	
22	0.04	0.05	0.15	0.34	0.25	0.20	0.19	0.13	0.10	0.10	0.07	0.06	
23	0.03	0.05	0.20	0.23	0.26	0.18	0.18	0.13	0.10	0.10	0.07	0.06	
24	0.02	0.05	0.19	0.68	0.25	0.19	0.18	0.13	0.10	0.10	0.07	0.06	
25	0.03	0.03	0.18	0.38	0.18	0.19	0.18	0.14	0.10	0.10	0.07	0.06	
26	0.04	0.03	0.45	0.25	0.19	0.19	0.17	0.17	0.10	0.10	0.07	0.06	
27	0.04	0.03	0.28	0.21	0.25	0.18	0.17	0.19	0.10	0.09	0.06	0.06	
28	0.03	0.05	0.18	0.17	0.26	0.18	0.16	0.14	0.10	0.09	0.06	0.06	
29	0.05	0.08	0.15	0.20	0.23	0.18	0.15	0.13	0.10	0.09		0.06	
30	0.03	0.05	0.15	0.20	0.23	0.21	0.15	0.13	0.10	0.09		0.06	
31		0.05		0.22	0.23		0.15		0.10	0.09		0.06	
MEAN	0.03	0.04	0.13	0.22	0.35	0.24	0.20	0.16	0.11	0.10	0.08	0.06	
MAX	0.08	0.08	0.45	0.68	1.11	0.33	0.32	0.32	0.13	0.10	0.09	0.06	1.11
MIN	0.02	0.02	0.05	0.10	0.18	0.18	0.15	0.13	0.10	0.09	0.06	0.06	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.84 M (A.D), AT 14.00 HOURS, ON AUG 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.10 M (A.D)
LEFT BANK ELEVATION 6.56 M (A.D)
RIGHT BANK ELEVATION 5.98 M (A.D), DRAINAGE AREA 67 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.16	0.20	0.58	2.12	1.81	1.00	0.64	0.58	0.40	0.36	0.24	
2	0.12	0.12	0.24	0.40	2.01	1.72	1.00	0.64	0.58	0.40	0.32	0.24	
3	0.08	0.08	0.32	0.40	4.44	1.54	0.94	0.82	0.58	0.40	0.32	0.24	
4	0.16	0.08	0.32	0.40	2.56	1.54	0.94	2.12	0.58	0.40	0.32	0.24	
5	0.24	0.08	0.20	0.64	5.02	2.23	1.18	1.72	0.52	0.40	0.32	0.24	
6	0.12	0.08	0.28	2.67	2.67	2.01	1.09	1.00	0.52	0.40	0.32	0.24	
7	0.08	0.08	0.20	1.72	2.23	1.72	1.09	0.88	0.52	0.40	0.32	0.24	
8	0.12	0.08	0.20	1.45	1.90	1.72	1.81	0.76	0.52	0.40	0.32	0.24	
9	0.08	0.12	0.24	1.00	2.56	2.12	1.27	0.70	0.52	0.40	0.32	0.24	
10	0.16	0.12	0.36	1.00	20.34	1.81	2.12	0.70	0.52	0.40	0.32	0.24	
11	0.08	0.12	0.36	0.94	6.93	1.63	1.45	0.70	0.52	0.40	0.32	0.24	
12	0.12	0.12	0.46	0.70	4.12	1.45	1.18	0.64	0.52	0.40	0.32	0.24	
13	0.12	0.20	0.32	0.64	4.12	1.72	1.00	0.64	0.52	0.40	0.32	0.24	
14	0.08	0.16	0.28	0.46	3.96	1.54	0.94	0.64	0.52	0.40	0.32	0.24	
15	0.08	0.12	0.20	0.76	2.78	1.45	0.94	0.64	0.46	0.40	0.32	0.24	
16	0.12	0.12	0.20	0.70	2.45	1.36	1.36	0.64	0.40	0.40	0.32	0.24	
17	0.12	0.16	0.70	0.64	2.01	1.36	1.45	0.70	0.40	0.40	0.32	0.24	
18	0.08	0.24	1.00	0.82	1.81	1.27	1.54	0.64	0.40	0.40	0.32	0.24	
19	0.08	0.28	0.76	1.72	1.54	1.36	1.00	0.64	0.40	0.40	0.32	0.24	
20	0.16	0.12	1.27	3.16	1.63	1.18	1.00	0.64	0.40	0.40	0.32	0.24	
21	0.32	0.16	0.82	2.12	1.45	1.18	0.94	0.58	0.40	0.40	0.32	0.24	
22	0.16	0.20	0.70	2.34	1.45	1.00	0.94	0.58	0.40	0.40	0.28	0.24	
23	0.12	0.20	1.00	1.27	1.54	0.88	0.88	0.58	0.40	0.40	0.28	0.24	
24	0.08	0.20	0.94	8.54	1.45	0.94	0.88	0.58	0.40	0.40	0.28	0.24	
25	0.12	0.12	0.88	2.78	0.88	0.94	0.88	0.64	0.40	0.40	0.28	0.24	
26	0.16	0.12	3.80	1.45	0.94	0.94	0.82	0.82	0.40	0.40	0.28	0.24	
27	0.16	0.12	1.72	1.09	1.45	0.88	0.82	0.94	0.40	0.36	0.24	0.24	
28	0.12	0.20	0.88	0.82	1.54	0.88	0.76	0.64	0.40	0.36	0.24	0.24	
29	0.20	0.32	0.70	1.00	1.27	0.88	0.70	0.58	0.40	0.36		0.24	
30	0.12	0.20	0.70	1.00	1.27	1.09	0.70	0.58	0.40	0.36		0.24	
31		0.20		1.18	1.27		0.70		0.40	0.36		0.24	
TOTAL	3.92	4.68	20.25	44.39	91.71	42.15	33.32	23.02	14.38	12.20	8.64	7.44	306.10 CMSDAY
MEAN	0.13	0.15	0.67	1.43	2.96	1.40	1.07	0.77	0.46	0.39	0.31	0.24	0.84 CMS
MAX	0.32	0.32	3.80	8.54	20.34	2.23	2.12	2.12	0.58	0.40	0.36	0.24	20.34 CMS
MIN	0.08	0.08	0.20	0.40	0.88	0.88	0.70	0.58	0.40	0.36	0.24	0.24	0.08 CMS
RUNOFF	0.339	0.404	1.750	3.835	7.924	3.642	2.879	1.989	1.242	1.054	0.746	0.643	26.447 MCM

MOMENTARY PEAK 108.68 CMS, AT 2.84 M (A.D), AT 14.00 HOURS, ON AUG 10, 1981
RUNOFF YIELD 12.52 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1622.09 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PA SAK RIVER BASIN

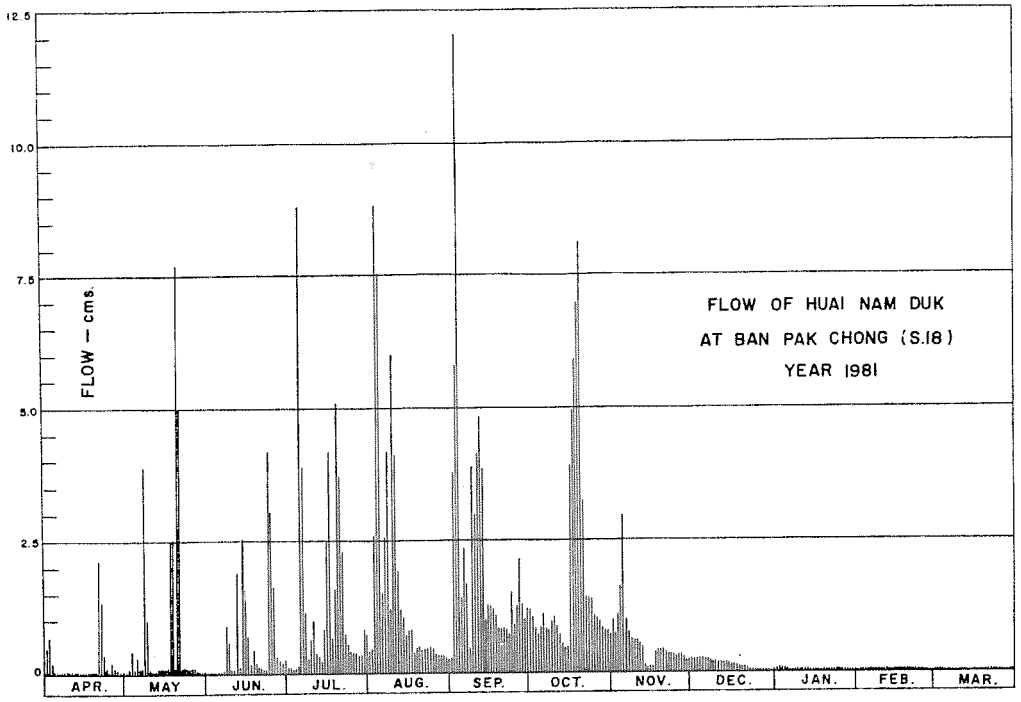
HUAI NAM DUK AT BAN PAK CHONG, PHETCHABUN (S.18)

LOCATION	LAT. 16-43-05 N., LONG. 101-20-38 E., ON RIGHT BANK AT BAN PAK CHONG, TAMBON PAK CHONG, AMPHOE LOM SAK, PHETCHABUN.
DRAINAGE AREA	146 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 6.00 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+4.907 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.69	0.51	0.40	0.60	0.67	0.65	0.76	0.75	0.64	0.56	0.50	0.50	
2	0.72	0.55	0.39	0.58	0.69	0.97	0.75	0.72	0.63	0.56	0.50	0.50	
3	0.57	0.68	0.41	0.57	0.89	0.98	0.73	0.79	0.63	0.56	0.50	0.50	
4	0.20	0.03	0.47	0.57	1.06	1.14	0.72	0.85	0.63	0.55	0.50	0.50	
5	0.20	0.65	0.39	0.61	1.02	0.79	0.75	0.87	0.63	0.54	0.50	0.50	
6	0.20	0.55	0.41	1.06	0.80	0.84	0.76	0.74	0.63	0.54	0.50	0.50	
7	0.20	0.55	0.42	0.85	0.88	0.79	0.73	0.72	0.63	0.53	0.50	0.50	
8	0.20	0.91	0.74	0.71	0.92	0.67	0.73	0.71	0.63	0.52	0.50	0.50	
9	0.20	0.70	0.68	0.65	0.77	0.91	0.75	0.71	0.62	0.52	0.50	0.50	
10	0.20	0.45	0.50	0.73	0.98	0.87	0.75	0.71	0.62	0.52	0.50	0.50	
11	0.20	0.43	0.58	0.75	0.90	0.93	0.73	0.70	0.62	0.51	0.50	0.50	
12	0.20	0.49	0.82	0.65	0.77	0.94	0.71	0.70	0.62	0.50	0.50	0.50	
13	0.20	0.57	0.60	0.65	0.77	0.90	0.70	0.59	0.62	0.50	0.50	0.50	
14	0.20	0.57	0.85	0.63	0.75	0.75	0.69	0.58	0.61	0.50	0.50	0.50	
15	0.20	0.57	0.78	0.79	0.72	0.78	0.70	0.58	0.60	0.50	0.50	0.50	
16	0.20	0.56	0.72	0.89	0.73	0.77	0.93	0.60	0.60	0.50	0.50	0.50	
17	0.20	0.57	0.58	0.92	0.73	0.77	0.95	0.68	0.60	0.50	0.50	0.50	
18	0.20	0.85	0.68	0.71	0.67	0.75	1.01	0.68	0.59	0.50	0.50	0.50	
19	0.20	0.85	0.61	0.80	0.70	0.73	1.03	0.68	0.59	0.50	0.50	0.50	
20	0.20	0.70	0.60	0.95	0.70	0.73	1.04	0.68	0.57	0.50	0.50	0.50	
21	0.83	1.03	0.58	0.88	0.68	0.73	0.83	0.67	0.56	0.50	0.50	0.50	
22	0.74	0.58	0.58	0.81	0.69	0.73	0.79	0.66	0.51	0.50	0.50	0.50	
23	0.68	0.60	0.58	0.71	0.69	0.72	0.79	0.66	0.51	0.50	0.50	0.50	
24	0.55	0.58	0.92	0.70	0.69	0.80	0.79	0.65	0.52	0.50	0.50	0.50	
25	0.20	0.57	0.78	0.67	0.69	0.74	0.75	0.65	0.52	0.50	0.50	0.50	
26	0.62	0.56	0.73	0.67	0.66	0.78	0.75	0.64	0.53	0.50	0.50	0.50	
27	0.57	0.55	0.63	0.66	0.66	0.83	0.74	0.64	0.53	0.50	0.50	0.50	
28	0.53	0.53	0.63	0.66	0.65	0.76	0.73	0.64	0.53	0.50	0.50	0.50	
29	0.53	0.47	0.62	0.66	0.65	0.75	0.73	0.63	0.53	0.50		0.50	
30	0.20	0.44	0.64	0.73	0.64	0.77	0.73	0.63	0.52	0.50		0.50	
31		0.40		0.72	0.64		0.72		0.52	0.50		0.50	
MEAN	0.36	0.58	0.61	0.73	0.76	0.81	0.78	0.68	0.58	0.51	0.50	0.50	
MAX	0.83	1.03	0.92	1.06	1.06	1.14	1.04	0.87	0.64	0.56	0.50	0.50	1.14
MIN	0.20	0.03	0.39	0.57	0.64	0.65	0.69	0.58	0.51	0.50	0.50	0.50	0.03

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.74 M (A.D), AT 19.00 HOURS, ON AUG 4, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.20 M (A.D)
LEFT BANK ELEVATION 12.31 M (A.D)
RIGHT BANK ELEVATION 8.46 M (A.D), DRAINAGE AREA 146 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.46	0.01	0.00	0.10	0.38	0.30	1.10	1.00	0.26	0.06	0.00	0.00	
2	0.70	0.05	0.00	0.08	0.46	5.70	1.00	0.70	0.22	0.06	0.00	0.00	
3	0.07	0.42	0.00	0.07	3.39	6.00	0.80	1.40	0.22	0.06	0.00	0.00	
4	0.00	0.00	0.00	0.07	8.82	12.02	0.70	2.55	0.22	0.05	0.00	0.00	
5	0.00	0.30	0.00	0.14	7.34	1.40	1.00	2.97	0.22	0.04	0.00	0.00	
6	0.00	0.05	0.00	8.82	1.50	2.34	1.10	0.90	0.22	0.04	0.00	0.00	
7	0.00	0.05	0.00	2.55	3.18	1.40	0.80	0.70	0.22	0.03	0.00	0.00	
8	0.00	3.90	0.90	0.60	4.20	0.38	0.80	0.60	0.22	0.02	0.00	0.00	
9	0.00	0.50	0.42	0.30	1.20	3.90	1.00	0.60	0.18	0.02	0.00	0.00	
10	0.00	0.00	0.00	0.80	6.00	2.97	1.00	0.60	0.18	0.02	0.00	0.00	
11	0.00	0.00	0.08	1.00	3.60	4.50	0.80	0.50	0.18	0.01	0.00	0.00	
12	0.00	0.00	1.92	0.30	1.20	4.80	0.60	0.50	0.18	0.00	0.00	0.00	
13	0.00	0.07	0.10	0.30	1.20	3.60	0.50	0.09	0.18	0.00	0.00	0.00	
14	0.00	0.07	2.55	0.22	1.00	1.00	0.46	0.08	0.14	0.00	0.00	0.00	
15	0.00	0.07	1.30	1.40	0.70	1.30	0.50	0.08	0.10	0.00	0.00	0.00	
16	0.00	0.06	0.70	3.39	0.80	1.20	4.50	0.10	0.10	0.00	0.00	0.00	
17	0.00	0.07	0.08	4.20	0.80	1.20	5.10	0.42	0.10	0.00	0.00	0.00	
18	0.00	2.55	0.42	0.60	0.38	1.00	6.97	0.42	0.09	0.00	0.00	0.00	
19	0.00	2.55	0.14	1.50	0.50	0.80	7.71	0.42	0.09	0.00	0.00	0.00	
20	0.00	0.50	0.10	5.10	0.50	0.80	8.08	0.42	0.07	0.00	0.00	0.00	
21	2.13	7.71	0.08	3.18	0.42	0.80	2.13	0.38	0.06	0.00	0.00	0.00	
22	0.90	0.08	0.08	1.71	0.46	0.80	1.40	0.34	0.01	0.00	0.00	0.00	
23	0.42	0.10	0.08	0.60	0.46	0.70	1.40	0.34	0.01	0.00	0.00	0.00	
24	0.05	0.08	4.20	0.50	0.46	1.50	1.40	0.30	0.02	0.00	0.00	0.00	
25	0.00	0.07	1.30	0.38	0.46	0.90	1.00	0.30	0.02	0.00	0.00	0.00	
26	0.18	0.06	0.80	0.38	0.34	1.30	1.00	0.26	0.03	0.00	0.00	0.00	
27	0.07	0.05	0.22	0.34	0.34	2.13	0.90	0.26	0.03	0.00	0.00	0.00	
28	0.03	0.03	0.22	0.34	0.30	1.10	0.80	0.26	0.03	0.00	0.00	0.00	
29	0.03	0.00	0.18	0.34	0.30	1.00	0.80	0.22	0.03	0.00		0.00	
30	0.00	0.00	0.26	0.80	0.26	1.20	0.80	0.22	0.02	0.00		0.00	
31		0.00		0.70	0.26		0.70		0.02	0.00		0.00	
TOTAL	5.04	19.40	16.13	40.81	51.21	68.04	56.85	17.93	3.67	0.41	0.00	0.00	279.49 CMSDAY
MEAN	0.17	0.63	0.54	1.32	1.65	2.27	1.83	0.60	0.12	0.01	0.00	0.00	0.77 CMS
MAX	2.13	7.71	4.20	8.82	8.82	12.02	8.08	2.97	0.26	0.06	0.00	0.00	12.02 CMS
MIN	0.00	0.00	0.00	0.07	0.26	0.30	0.46	0.08	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.435	1.676	1.394	3.526	4.425	5.879	4.912	1.549	0.317	0.035	0.000	0.000	24.148 MCM

MOMENTARY PEAK 54.36 CMS, AT 1.74 M (A.D); AT 19.00 HOURS, ON AUG 4, 1981

RUNOFF YIELD 5.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 372.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SALAWIN RIVER BASIN

HUAI MAE LAMAO AT BAN KO KO, TAK (SW.1)

LOCATION — LAT. 16°-54'-36" N., LONG. 98°-37'-57" E., ON RIGHT BANK AT BAN KO KO ABOUT 14 KILOMETERS SOUTH-EAST OF AMPHOE MAE RAMAT BETWEEN DOI KALA AND DOI MAE PHASA, AMPHOE MAE SOT, TAK.

DRAINAGE AREA — 1,426 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ALONG THE MEASURING LINE.

ELEVATION — +5.597 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 — 1966-1969

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966-1969

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 150 DISCHARGE MEASUREMENTS MADE IN 1968.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

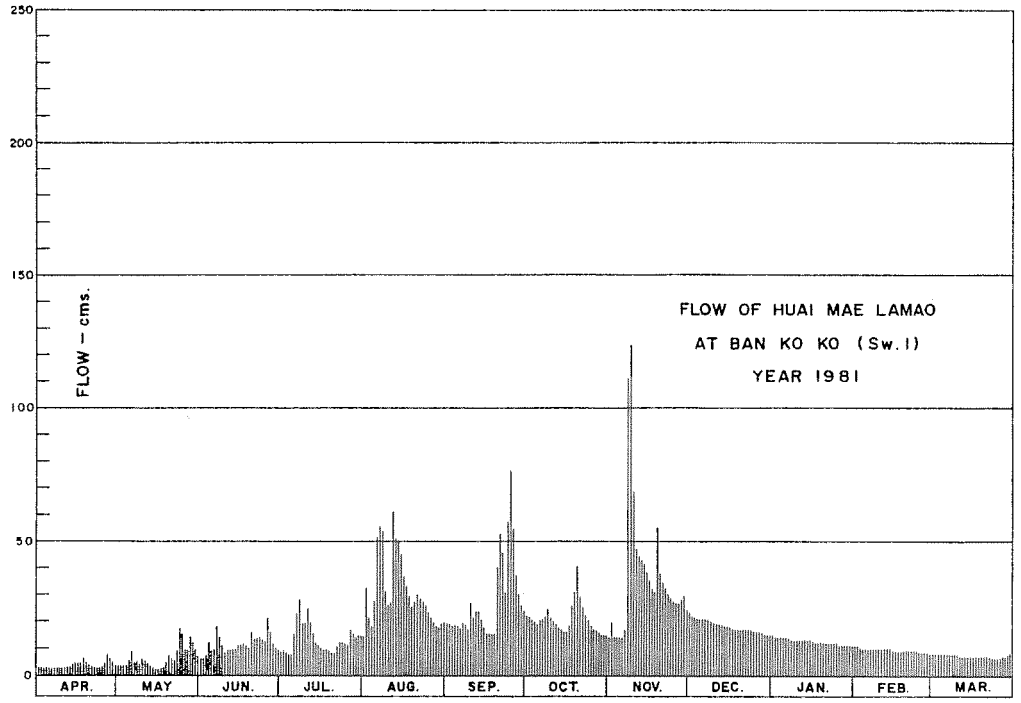
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.26	0.43	0.50	0.76	0.92	1.00	0.74	1.03	0.75	0.62	0.52	
2	0.20	0.24	0.44	0.56	1.29	0.92	1.00	0.93	1.02	0.75	0.62	0.52	
3	0.22	0.24	0.48	0.52	0.93	0.90	0.97	0.72	1.00	0.74	0.61	0.51	
4	0.25	0.24	0.65	0.50	0.84	0.87	0.94	0.72	0.99	0.74	0.60	0.51	
5	0.22	0.39	0.50	0.49	1.15	0.92	0.92	0.72	0.98	0.73	0.60	0.51	
6	0.20	0.54	0.55	0.74	1.73	0.87	0.97	0.74	0.97	0.72	0.60	0.51	
7	0.20	0.34	0.86	1.67	1.84	0.85	0.99	0.85	0.96	0.72	0.59	0.50	
8	0.19	0.35	0.78	1.20	1.81	0.94	1.00	2.90	0.95	0.71	0.59	0.50	
9	0.19	0.31	0.63	0.92	1.29	0.85	1.08	3.19	0.93	0.71	0.58	0.50	
10	0.19	0.43	0.53	0.90	1.12	1.15	1.01	2.21	0.92	0.70	0.58	0.50	
11	0.19	0.39	0.55	1.09	1.13	0.99	0.96	1.69	0.91	0.70	0.58	0.49	
12	0.20	0.35	0.55	0.97	1.95	1.07	0.91	1.58	0.90	0.70	0.58	0.49	
13	0.24	0.28	0.56	0.78	1.72	1.07	0.87	1.55	0.90	0.70	0.57	0.49	
14	0.31	0.24	0.55	0.67	1.72	0.92	0.89	1.51	0.89	0.69	0.57	0.48	
15	0.32	0.23	0.61	0.62	1.61	0.84	0.84	1.44	0.88	0.69	0.56	0.47	
16	0.30	0.21	0.61	0.59	1.36	0.78	0.80	1.36	0.86	0.68	0.56	0.47	
17	0.34	0.22	0.63	0.56	1.23	0.75	0.88	1.27	0.85	0.67	0.56	0.46	
18	0.40	0.26	0.59	0.57	1.14	0.77	1.16	1.25	0.85	0.67	0.55	0.46	
19	0.30	0.41	0.58	0.56	1.09	0.75	1.24	1.83	0.84	0.66	0.55	0.45	
20	0.24	0.45	0.81	0.53	1.16	1.46	1.50	1.44	0.84	0.66	0.55	0.45	
21	0.22	0.46	0.70	0.53	1.21	1.79	1.21	1.35	0.84	0.66	0.55	0.45	
22	0.21	0.37	0.71	0.61	1.16	1.63	1.11	1.30	0.83	0.65	0.55	0.44	
23	0.20	0.46	0.72	0.66	1.16	1.23	1.04	1.23	0.83	0.65	0.54	0.44	
24	0.20	0.85	0.71	0.65	1.10	1.85	0.96	1.18	0.83	0.65	0.54	0.44	
25	0.23	0.75	0.69	0.65	1.05	2.30	0.90	1.17	0.82	0.65	0.54	0.44	
26	0.32	0.54	0.97	0.64	0.97	1.85	0.85	1.15	0.82	0.64	0.53	0.44	
27	0.45	0.54	0.75	0.84	0.91	1.47	0.83	1.14	0.81	0.64	0.53	0.45	
28	0.41	0.72	0.64	0.75	0.88	1.25	0.80	1.16	0.80	0.64	0.52	0.45	
29	0.32	0.67	0.57	0.72	0.87	1.12	0.78	1.23	0.78	0.63		0.45	
30	0.29	0.60	0.55	0.78	0.91	1.07	0.76	1.07	0.76	0.63		0.52	
31		0.45		0.76	0.95		0.75		0.75	0.62		0.47	
MEAN	0.26	0.41	0.63	0.73	1.23	1.14	0.97	1.35	0.88	0.68	0.57	0.48	
MAX	0.45	0.85	0.97	1.67	1.95	2.30	1.50	3.19	1.03	0.75	0.62	0.52	3.19
MIN	0.19	0.21	0.43	0.49	0.76	0.75	0.75	0.72	0.75	0.62	0.52	0.44	0.19

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.85 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION — M (A.D)

RIGHT BANK ELEVATION — M (A.D), DRAINAGE AREA 1426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.25	3.36	6.66	8.20	15.28	19.80	22.20	14.72	23.34	15.00	11.36	8.72	
2	2.40	3.04	6.88	9.76	33.22	19.80	22.20	20.10	22.96	15.00	11.36	8.72	
3	2.72	3.04	7.76	8.72	20.10	19.20	21.30	14.16	22.20	14.72	11.08	8.46	
4	3.20	3.04	12.20	8.20	17.52	18.36	20.40	14.16	21.90	14.72	10.80	8.46	
5	2.72	5.80	8.20	7.98	27.90	19.80	19.80	14.16	21.60	14.44	10.80	8.46	
6	2.40	9.24	9.50	14.72	50.98	18.36	21.30	14.72	21.30	14.16	10.80	8.46	
7	2.40	4.80	18.08	48.40	56.04	17.80	21.90	17.80	21.00	14.16	10.54	8.20	
8	2.25	5.00	15.84	29.80	54.66	20.40	22.20	107.00	20.70	13.88	10.54	8.20	
9	2.25	4.20	11.64	19.80	33.22	17.80	25.24	124.40	20.10	13.88	10.28	8.20	
10	2.25	6.66	8.98	19.20	26.76	27.90	22.58	73.06	19.80	13.60	10.28	8.20	
11	2.25	5.80	9.50	25.62	27.14	21.90	21.00	49.20	19.50	13.60	10.28	7.98	
12	2.40	5.00	9.50	21.30	61.10	24.86	19.50	44.80	19.20	13.60	10.28	7.98	
13	3.04	3.68	9.76	15.84	50.52	24.86	18.36	43.60	19.20	13.60	10.02	7.98	
14	4.20	3.04	9.50	12.76	50.52	19.80	18.92	42.00	18.92	13.32	10.02	7.76	
15	4.40	2.88	11.08	11.36	46.00	17.52	17.52	39.20	18.64	13.32	9.76	7.54	
16	4.00	2.56	11.08	10.54	36.00	15.84	16.40	36.00	18.08	13.04	9.76	7.54	
17	4.80	2.72	11.64	9.76	30.94	15.00	18.64	32.46	17.80	12.76	9.76	7.32	
18	6.00	3.36	10.54	10.02	27.52	15.56	28.28	31.70	17.80	12.76	9.50	7.32	
19	4.00	6.22	10.28	9.76	25.62	15.00	31.32	55.58	17.52	12.48	9.50	7.10	
20	3.04	7.10	16.68	8.98	28.28	40.00	41.60	39.20	17.52	12.48	9.50	7.10	
21	2.72	7.32	13.60	8.98	30.18	53.74	30.18	35.60	17.52	12.48	9.50	7.10	
22	2.56	5.40	13.88	11.08	28.28	46.80	26.38	33.60	17.24	12.20	9.50	6.88	
23	2.40	7.32	14.16	12.48	28.28	30.94	23.72	30.94	17.24	12.20	9.24	6.88	
24	2.40	17.80	13.88	12.20	26.00	56.50	21.00	29.04	17.24	12.20	9.24	6.88	
25	2.88	15.00	13.32	12.20	24.10	77.20	19.20	28.66	16.96	12.20	9.24	6.88	
26	4.40	9.24	21.30	11.92	21.30	56.50	17.80	27.90	16.96	11.92	8.98	6.88	
27	7.10	9.24	15.00	17.52	19.50	40.40	17.24	27.52	16.68	11.92	8.98	7.10	
28	6.22	14.16	11.92	15.00	18.64	31.70	16.40	28.28	16.40	11.92	8.72	7.10	
29	4.40	12.76	10.02	14.16	18.36	26.76	15.84	30.94	15.84	11.64		7.10	
30	3.84	10.80	9.50	15.84	19.50	24.86	15.28	24.86	15.28	11.64		8.72	
31		7.10		15.28	20.70		15.00		15.00	11.36		7.54	
TOTAL	101.89	206.68	351.88	457.38	974.16	854.96	668.70	1125.36	581.44	406.20	279.62	238.76	6247.02 CMSDAY
MEAN	3.40	6.67	11.73	14.75	31.42	28.50	21.57	37.51	18.76	13.10	9.99	7.70	17.12 CMS
MAX	7.10	17.80	21.30	48.40	61.10	77.20	41.60	124.40	23.34	15.00	11.36	8.72	124.40 CMS
MIN	2.25	2.56	6.66	7.98	15.28	15.00	15.00	14.16	15.00	11.36	8.72	6.88	2.25 CMS
RUNOFF	8.803	17.857	30.402	39.518	84.167	73.868	57.776	97.231	50.236	35.096	24.159	20.629	539.742 MCM

MOMENTARY PEAK 164.00 CMS, AT 3.85 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 12.00 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 SIDE OF HUAI MAE LAMAO BRIDGE AT BAN MAE LAMAO, AMPHOE MAE SOT, TAK.

DRAINAGE AREA — 1,038 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

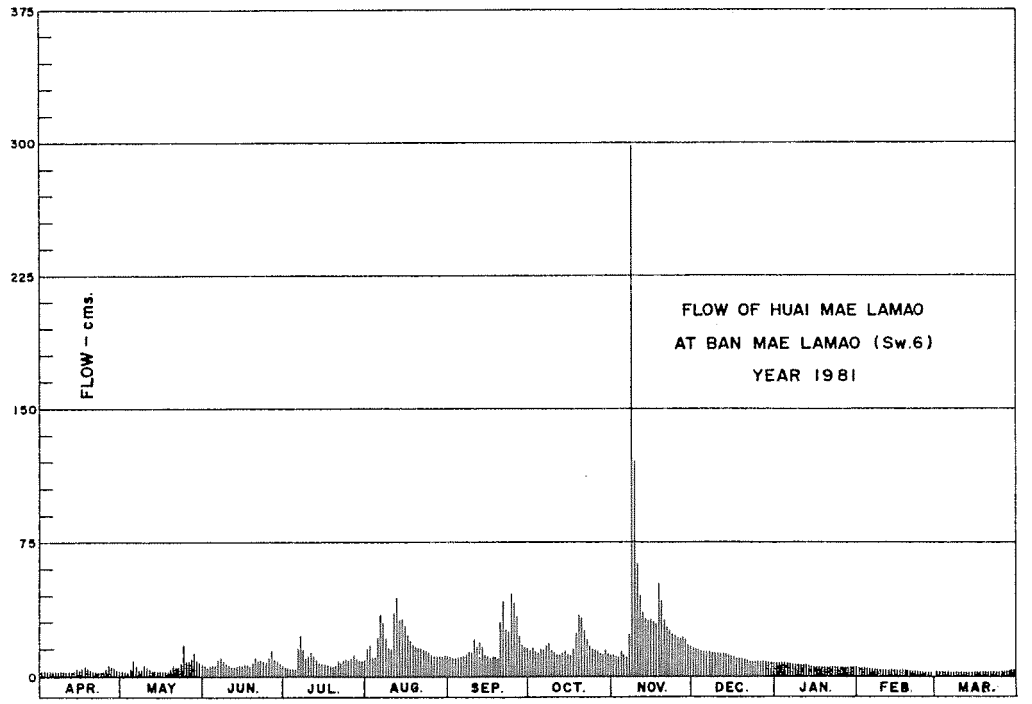
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 90 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	0.70	0.86	0.85	1.26	1.12	1.22	1.16	1.29	0.98	0.83	0.74	
2	0.68	0.67	0.85	0.83	1.33	1.10	1.29	1.15	1.27	0.98	0.83	0.74	
3	0.69	0.69	0.87	0.82	1.12	1.10	1.23	1.15	1.26	0.98	0.82	0.74	
4	0.68	0.75	0.87	0.80	1.12	1.13	1.21	1.22	1.25	0.98	0.81	0.74	
5	0.65	1.02	0.86	0.81	1.46	1.13	1.30	1.16	1.24	0.98	0.81	0.72	
6	0.64	0.86	1.05	1.20	1.74	1.12	1.25	1.13	1.23	0.95	0.81	0.72	
7	0.64	0.75	1.10	1.49	1.66	1.16	1.33	1.48	1.22	0.94	0.79	0.71	
8	0.64	0.73	1.03	1.24	1.46	1.24	1.37	5.04	1.20	0.94	0.79	0.71	
9	0.63	0.88	0.93	1.10	1.29	1.20	1.24	3.14	1.20	0.93	0.78	0.72	
10	0.63	0.86	0.88	1.13	1.25	1.42	1.19	2.32	1.19	0.92	0.78	0.70	
11	0.63	0.78	0.85	1.19	1.78	1.30	1.18	1.99	1.19	0.92	0.78	0.69	
12	0.63	0.74	0.84	1.13	1.96	1.38	1.17	1.79	1.19	0.91	0.76	0.69	
13	0.67	0.72	0.84	1.03	1.67	1.36	1.21	1.69	1.18	0.90	0.76	0.68	
14	0.81	0.70	0.90	0.97	1.68	1.17	1.22	1.67	1.17	0.89	0.76	0.68	
15	0.74	0.69	0.86	0.93	1.60	1.13	1.17	1.69	1.15	0.88	0.76	0.67	
16	0.77	0.67	0.93	0.93	1.48	1.10	1.15	1.68	1.15	0.88	0.76	0.67	
17	0.85	0.66	0.91	0.91	1.40	1.13	1.26	1.65	1.14	0.88	0.76	0.66	
18	0.80	0.68	0.88	0.87	1.34	1.12	1.52	2.13	1.11	0.87	0.76	0.66	
19	0.72	0.73	0.95	0.86	1.30	1.08	1.75	1.93	1.09	0.87	0.76	0.66	
20	0.69	0.89	1.10	0.84	1.29	1.69	1.72	1.71	1.09	0.87	0.75	0.66	
21	0.70	0.82	1.00	1.00	1.28	1.90	1.58	1.60	1.05	0.87	0.74	0.65	
22	0.69	0.83	1.02	0.96	1.26	1.55	1.44	1.54	1.03	0.86	0.73	0.64	
23	0.68	0.94	0.98	1.03	1.22	1.48	1.32	1.50	1.03	0.85	0.73	0.64	
24	0.69	1.32	0.96	1.08	1.19	2.00	1.28	1.47	1.02	0.85	0.73	0.64	
25	0.76	0.98	1.06	1.01	1.16	1.92	1.24	1.44	1.02	0.84	0.72	0.64	
26	0.89	0.99	1.23	1.08	1.13	1.77	1.22	1.42	1.01	0.84	0.72	0.65	
27	0.85	1.06	1.05	1.18	1.12	1.45	1.20	1.45	1.01	0.84	0.72	0.75	
28	0.82	1.21	1.00	1.06	1.16	1.36	1.18	1.43	1.00	0.84	0.72	0.74	
29	0.74	1.03	0.92	1.02	1.16	1.29	1.22	1.35	1.00	0.83		0.76	
30	0.72	0.96	0.87	1.01	1.18	1.28	1.21	1.32	0.99	0.83		0.75	
31		0.90		1.05	1.12		1.17		0.98	0.83		0.71	
MEAN	0.71	0.85	0.95	1.01	1.36	1.34	1.29	1.71	1.13	0.89	0.77	0.69	
MAX	0.89	1.32	1.23	1.49	1.96	2.00	1.75	5.04	1.29	0.98	0.83	0.76	5.04
MIN	0.63	0.66	0.84	0.80	1.12	1.08	1.15	1.13	0.98	0.83	0.72	0.64	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.10 M (A.D), AT 10.00 HOURS, ON NOV 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION M (A.D)
RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 1038 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.91	2.00	5.20	5.00	14.80	10.60	13.60	11.80	15.70	7.60	4.60	2.80	
2	1.94	1.91	5.00	4.60	17.20	10.00	15.70	11.50	15.10	7.60	4.60	2.80	
3	1.97	1.97	5.40	4.40	10.60	10.00	13.90	11.50	14.80	7.60	4.40	2.80	
4	1.94	3.00	5.40	4.00	10.60	10.90	13.30	13.60	14.50	7.60	4.20	2.80	
5	1.86	8.40	5.20	4.20	22.40	10.90	16.00	11.80	14.20	7.60	4.20	2.40	
6	1.83	5.20	9.00	13.00	33.60	10.60	14.50	10.90	13.90	7.00	4.20	2.40	
7	1.83	3.00	10.00	23.60	30.40	11.80	17.20	23.20	13.60	6.80	3.80	2.20	
8	1.83	2.60	8.60	14.20	22.40	14.20	18.80	298.00	13.00	6.80	3.80	2.20	
9	1.80	5.60	6.60	10.00	15.70	13.00	14.20	121.20	13.00	6.60	3.60	2.40	
10	1.80	5.20	5.60	10.90	14.50	20.80	12.70	64.20	12.70	6.40	3.60	2.00	
11	1.80	3.60	5.00	12.70	35.20	16.00	12.40	45.50	12.70	6.40	3.60	1.97	
12	1.80	2.80	4.80	10.90	44.00	19.20	12.10	35.60	12.70	6.20	3.20	1.97	
13	1.91	2.40	4.80	8.60	30.80	16.40	13.30	31.60	12.40	6.00	3.20	1.94	
14	4.20	2.00	6.00	7.40	31.20	12.10	13.60	30.80	12.10	5.80	3.20	1.94	
15	2.80	1.97	5.20	6.60	28.00	10.90	12.10	31.60	11.50	5.60	3.20	1.91	
16	3.40	1.91	6.60	6.60	23.20	10.00	11.50	31.20	11.50	5.60	3.20	1.91	
17	5.00	1.89	6.20	6.20	20.00	10.90	14.80	30.00	11.20	5.60	3.20	1.89	
18	4.00	1.94	5.60	5.40	17.60	10.60	24.80	52.80	10.30	5.40	3.20	1.89	
19	2.40	2.60	7.00	5.20	16.00	9.60	34.00	42.50	9.80	5.40	3.20	1.89	
20	1.97	5.80	10.00	4.80	15.70	31.60	32.80	32.40	9.80	5.40	3.00	1.89	
21	2.00	4.40	8.00	8.00	15.40	41.00	27.20	28.00	9.00	5.40	2.80	1.86	
22	1.97	4.60	8.40	7.20	14.80	26.00	21.60	25.60	8.60	5.20	2.60	1.83	
23	1.94	6.80	7.60	8.60	13.60	23.20	16.80	24.00	8.60	5.00	2.60	1.83	
24	1.97	16.80	7.20	9.60	12.70	46.00	15.40	22.80	8.40	5.00	2.60	1.83	
25	3.20	7.60	9.20	8.20	11.80	42.00	14.20	21.60	8.40	4.80	2.40	1.83	
26	5.80	7.80	13.90	9.60	10.90	34.80	13.60	20.80	8.20	4.80	2.40	1.86	
27	5.00	9.20	9.00	12.40	10.60	22.00	13.00	22.00	8.20	4.80	2.40	3.00	
28	4.40	13.30	8.00	9.20	11.80	18.40	12.40	21.20	8.00	4.80	2.40	2.80	
29	2.80	8.60	6.40	8.40	11.80	15.70	13.60	18.00	8.00	4.60		3.20	
30	2.40	7.20	5.40	8.20	12.40	15.40	13.30	16.80	7.80	4.60		3.00	
31		6.00		9.00	10.60		12.10		7.60	4.60		2.20	
TOTAL	79.47	158.09	210.30	266.70	590.30	556.60	504.50	1162.50	345.30	182.60	93.40	69.24	4218.99 CMSDAY
MEAN	2.65	5.10	7.01	8.60	19.04	18.55	16.27	38.75	11.14	5.89	3.34	2.23	11.56 CMS
MAX	5.80	16.80	13.90	23.60	44.00	46.00	34.00	298.00	15.70	7.60	4.60	3.20	298.00 CMS
MIN	1.80	1.89	4.80	4.00	10.60	9.60	11.50	10.90	7.60	4.60	2.40	1.83	1.80 CMS
RUNOFF	6.866	13.659	18.170	23.043	51.002	48.090	43.589	100.440	29.834	15.777	8.070	5.982	364.521 MCM

MOMENTARY PEAK ******** CMS, AT 6.10 M (A.D), AT 10.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 11.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ******** LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KHONG RIVER BASIN

HUAI MONG AT BAN NA ANG, UDON THANI (KM.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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.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 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1957-1959, 1965-1966, 1974 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1981 TO MARCH 31, 1982

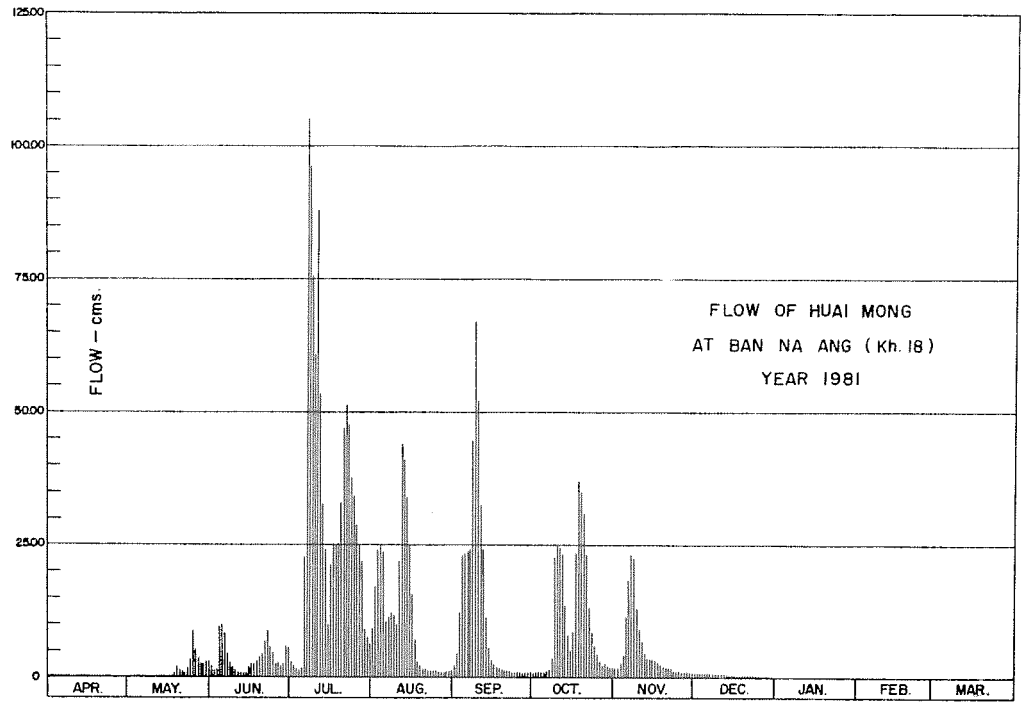
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.86	0.80	1.59	1.93	2.84	1.49	1.18	1.54	1.15	0.75	0.70	0.66	
2	0.86	0.81	1.40	1.61	3.22	2.19	1.25	1.52	1.14	0.80	0.70	0.65	
3	0.84	0.82	1.54	1.49	3.86	2.89	1.25	1.62	1.12	0.77	0.71	0.65	
4	0.83	0.84	2.78	1.41	3.91	3.33	1.23	2.18	1.11	0.82	0.70	0.66	
5	0.85	0.84	2.81	1.54	3.34	3.41	1.25	2.92	1.08	0.79	0.70	0.68	
6	0.83	0.82	2.52	4.14	2.85	3.59	1.33	3.38	1.08	0.76	0.68	0.69	
7	0.83	0.82	2.01	6.76	2.97	4.45	1.43	3.32	1.07	0.75	0.68	0.70	
8	0.87	0.79	1.82	7.10	3.09	6.07	1.90	3.18	1.06	0.74	0.69	0.68	
9	0.88	0.77	1.62	6.82	2.99	6.40	3.28	3.03	1.04	0.84	0.72	0.65	
10	0.86	0.82	1.43	6.19	2.79	5.46	3.96	2.75	1.02	0.76	0.69	0.65	
11	0.85	0.85	1.31	6.84	4.29	4.12	3.69	2.41	1.01	0.68	0.68	0.67	
12	0.84	0.83	1.24	5.46	5.52	3.26	3.29	2.18	1.00	0.69	0.66	0.70	
13	0.87	0.82	1.19	4.69	5.22	2.63	2.85	2.03	0.98	0.69	0.68	0.69	
14	0.88	0.86	1.15	3.48	4.47	2.22	2.45	2.00	0.96	0.71	0.72	0.67	
15	0.86	0.86	1.59	2.79	3.70	1.95	2.18	1.98	0.96	0.71	0.78	0.69	
16	0.85	0.82	1.81	3.38	2.94	1.68	2.75	1.94	0.95	0.77	0.72	0.69	
17	0.84	0.83	1.76	3.94	2.32	1.62	4.19	1.84	0.95	0.72	0.67	0.67	
18	0.86	1.13	1.85	3.86	1.90	1.51	5.06	1.73	0.94	0.71	0.65	0.64	
19	0.86	1.66	2.04	4.07	1.61	1.44	4.90	1.66	0.92	0.69	0.66	0.64	
20	0.86	1.51	2.08	4.81	1.50	1.38	4.46	1.60	0.93	0.68	0.68	0.64	
21	0.85	1.32	2.36	5.72	1.44	1.35	3.69	1.58	0.96	0.69	0.68	0.65	
22	0.85	1.21	2.69	5.86	1.36	1.32	3.07	1.51	0.93	0.71	0.78	0.65	
23	0.83	1.61	2.36	5.60	1.37	1.28	2.64	1.38	0.92	0.72	0.72	0.65	
24	0.80	2.02	2.15	5.13	1.37	1.22	2.29	1.32	0.87	0.78	0.73	0.66	
25	0.78	2.69	1.82	4.83	1.31	1.20	2.11	1.31	0.84	0.78	0.72	0.66	
26	0.77	2.17	1.80	4.32	1.25	1.17	1.86	1.28	0.84	0.76	0.69	0.68	
27	0.76	1.98	1.69	3.85	1.19	1.08	1.71	1.20	0.82	0.75	0.67	0.74	
28	0.75	1.88	1.76	3.22	1.23	1.08	1.77	1.16	0.83	0.72	0.67	0.76	
29	0.77	1.87	2.27	2.74	1.32	1.13	1.70	1.18	0.80	0.73		0.69	
30	0.78	1.93	2.23	2.61	1.32	1.23	1.60	1.19	0.79	0.73		0.65	
31		1.93		2.36	1.45		1.57		0.76	0.70		0.65	
MEAN	0.83	1.26	1.89	4.15	2.58	2.44	2.51	1.93	0.96	0.74	0.70	0.67	
MAX	0.88	2.69	2.81	7.10	5.52	6.40	5.06	3.38	1.15	0.84	0.78	0.76	7.10
MIN	0.75	0.77	1.15	1.41	1.19	1.08	1.18	1.16	0.76	0.68	0.65	0.64	0.64

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.13 M (A.D), AT 11.00 HOURS, ON JUL 8, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 1307 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.14	0.01	1.77	3.15	10.12	1.48	0.82	1.62	0.75	0.01	0.00	0.00	
2	0.14	0.03	1.29	1.84	13.52	4.92	0.97	1.56	0.73	0.01	0.00	0.00	
3	0.10	0.05	1.62	1.48	21.02	10.52	0.97	1.88	0.69	0.01	0.00	0.00	
4	0.07	0.10	9.64	1.31	21.62	14.73	0.93	4.84	0.67	0.05	0.00	0.00	
5	0.12	0.10	9.88	1.62	14.84	15.62	0.97	10.76	0.61	0.01	0.00	0.00	
6	0.07	0.05	7.56	24.38	10.20	17.78	1.14	15.28	0.61	0.01	0.00	0.00	
7	0.07	0.05	3.57	83.30	11.16	28.40	1.35	14.62	0.58	0.01	0.00	0.00	
8	0.16	0.01	2.68	105.00	12.12	56.89	3.00	13.08	0.56	0.00	0.00	0.00	
9	0.18	0.01	1.88	86.60	11.32	67.00	14.18	11.64	0.52	0.10	0.00	0.00	
10	0.14	0.05	1.35	60.13	9.72	42.78	22.22	9.40	0.48	0.01	0.00	0.00	
11	0.12	0.12	1.10	87.70	26.18	24.14	18.98	6.68	0.46	0.00	0.00	0.00	
12	0.10	0.07	0.95	42.78	43.90	13.96	14.29	4.84	0.44	0.00	0.00	0.00	
13	0.16	0.05	0.84	31.76	39.18	8.44	10.20	3.71	0.39	0.00	0.00	0.00	
14	0.18	0.14	0.75	16.46	28.68	5.16	7.00	3.50	0.35	0.00	0.00	0.00	
15	0.14	0.14	1.77	9.72	19.10	3.25	4.84	3.40	0.35	0.00	0.01	0.00	
16	0.12	0.05	2.54	15.28	10.92	2.12	9.40	3.20	0.33	0.01	0.00	0.00	
17	0.10	0.07	2.44	21.98	5.96	1.88	24.98	2.76	0.33	0.00	0.00	0.00	
18	0.14	0.71	2.80	21.02	3.00	1.53	36.94	2.32	0.31	0.00	0.00	0.00	
19	0.14	2.04	3.78	23.54	1.84	1.37	34.70	2.04	0.27	0.00	0.00	0.00	
20	0.14	1.53	4.06	33.44	1.50	1.24	28.54	1.80	0.29	0.00	0.00	0.00	
21	0.12	1.12	6.28	48.16	1.37	1.18	18.98	1.74	0.35	0.00	0.00	0.00	
22	0.12	0.88	8.92	51.38	1.20	1.12	11.96	1.53	0.29	0.00	0.01	0.00	
23	0.07	1.84	6.28	45.50	1.22	1.03	8.52	1.24	0.27	0.00	0.00	0.00	
24	0.01	3.64	4.60	37.92	1.22	0.90	5.72	1.12	0.16	0.01	0.00	0.00	
25	0.01	8.92	2.68	33.72	1.10	0.86	4.28	1.10	0.10	0.01	0.00	0.00	
26	0.01	4.76	2.60	26.58	0.97	0.80	2.84	1.03	0.10	0.01	0.00	0.00	
27	0.01	3.40	2.16	20.90	0.84	0.61	2.24	0.86	0.05	0.01	0.00	0.00	
28	0.01	2.92	2.44	13.52	0.93	0.61	2.48	0.78	0.07	0.00	0.00	0.01	
29	0.01	2.88	5.56	9.32	1.12	0.71	2.20	0.82	0.01	0.00		0.00	
30	0.01	3.15	5.24	8.28	1.12	0.93	1.80	0.84	0.01	0.00		0.00	
31		3.15		6.28	1.39		1.71		0.01	0.00		0.00	
TOTAL	2.91	42.04	109.13	974.05	328.38	331.96	299.15	129.99	11.14	0.27	0.02	0.01	2229.04 CMSDAY
MEAN	0.10	1.36	3.64	31.42	10.59	11.07	9.65	4.33	0.36	0.01	0.00	0.00	6.11 CMS
MAX	0.18	8.92	9.88	105.00	43.90	67.00	36.94	15.28	0.75	0.10	0.01	0.01	105.00 CMS
MIN	0.01	0.01	0.75	1.31	0.84	0.61	0.82	0.78	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.251	3.632	9.429	84.158	28.372	28.681	25.847	11.231	0.962	0.023	0.002	0.001	192.589 MCM

MOMENTARY PEAK 108.00 CMS, AT 7.13 M (A.D), AT 11.00 HOURS, ON JUL 8, 1981

RUNOFF YIELD 4.67 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 82.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KHONG RIVER BASIN

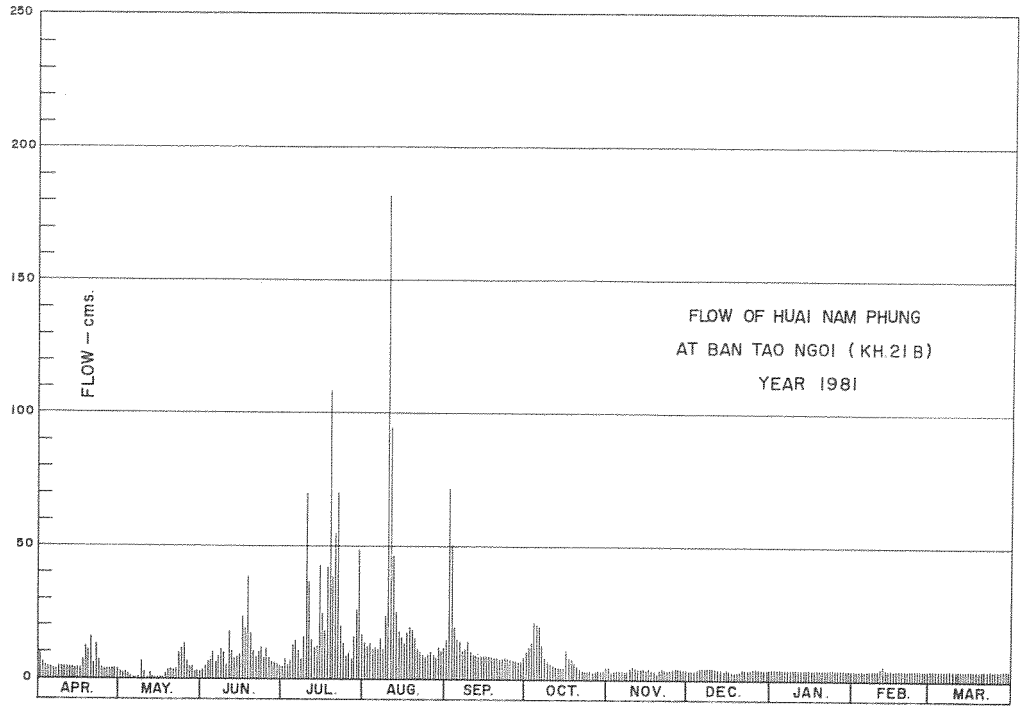
NAM PHUNG AT BAN TAO NGOI, SAKON NAKHON (KH.21B)

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	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+170.60 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ABOUT 2.7 KILOMETERS DOWNSTREAM FROM THE FORMER MEASURING LINE.
ELEVATION	+172.470 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 137 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	171.60	171.33	171.36	171.40	171.68	171.72	171.59	171.41	171.37	171.39	171.39	171.39	
2	171.46	171.32	171.41	171.52	171.64	172.57	171.65	171.33	171.37	171.39	171.39	171.39	
3	171.41	171.34	171.50	171.46	171.68	172.16	171.69	171.35	171.38	171.39	171.38	171.39	
4	171.41	171.27	171.53	171.49	171.62	171.81	171.82	171.38	171.39	171.39	171.38	171.39	
5	171.40	171.26	171.60	171.67	171.63	171.71	171.81	171.38	171.40	171.39	171.38	171.40	
6	171.39	171.21	171.45	171.70	171.62	171.70	171.80	171.36	171.41	171.39	171.39	171.39	
7	171.37	171.22	171.53	171.59	171.72	171.63	171.61	171.35	171.40	171.39	171.39	171.39	
8	171.42	171.25	171.63	171.51	171.63	171.63	171.52	171.36	171.40	171.39	171.39	171.39	
9	171.41	171.50	171.59	171.51	171.65	171.69	171.48	171.35	171.41	171.40	171.39	171.39	
10	171.40	171.33	171.45	172.55	173.84	171.61	171.43	171.43	171.41	171.40	171.39	171.39	
11	171.41	171.20	171.77	171.95	172.58	171.58	171.43	171.40	171.40	171.39	171.39	171.38	
12	171.41	171.33	171.55	171.67	172.06	171.57	171.41	171.40	171.39	171.40	171.45	171.38	
13	171.41	171.25	171.51	171.64	171.86	171.56	171.40	171.40	171.38	171.39	171.40	171.39	
14	171.39	171.23	171.55	171.59	171.77	171.55	171.39	171.39	171.38	171.40	171.39	171.39	
15	171.39	171.24	171.54	172.18	171.71	171.54	171.41	171.38	171.39	171.39	171.39	171.39	
16	171.40	171.24	171.87	171.87	171.68	171.55	171.61	171.40	171.38	171.40	171.39	171.39	
17	171.41	171.23	171.79	171.77	171.77	171.55	171.53	171.38	171.37	171.40	171.39	171.39	
18	171.66	171.32	172.12	172.04	171.80	171.53	171.52	171.38	171.37	171.39	171.39	171.39	
19	171.63	171.37	171.72	173.04	171.78	171.53	171.45	171.34	171.37	171.39	171.39	171.38	
20	171.73	171.38	171.61	172.12	171.69	171.53	171.43	171.39	171.36	171.39	171.38	171.39	
21	171.45	171.37	171.55	172.93	171.63	171.53	171.40	171.39	171.39	171.39	171.39	171.39	
22	171.67	171.37	171.57	172.01	171.59	171.53	171.37	171.38	171.39	171.39	171.38	171.39	
23	171.53	171.57	171.63	171.73	171.58	171.52	171.37	171.37	171.38	171.39	171.38	171.39	
24	171.40	171.62	171.53	171.67	171.55	171.52	171.36	171.39	171.39	171.39	171.39	171.39	
25	171.39	171.68	171.63	171.54	171.58	171.51	171.37	171.40	171.40	171.39	171.39	171.39	
26	171.39	171.48	171.53	171.57	171.61	171.51	171.34	171.40	171.40	171.39	171.39	171.39	
27	171.39	171.42	171.48	171.51	171.57	171.51	171.34	171.40	171.39	171.39	171.39	171.39	
28	171.39	171.42	171.47	171.69	171.55	171.49	171.38	171.39	171.39	171.39	171.39	171.41	
29	171.39	171.33	171.45	171.94	171.64	171.49	171.33	171.39	171.38	171.39		171.40	
30	171.39	171.37	171.43	172.26	171.59	171.54	171.34	171.38	171.39	171.39		171.39	
31		171.36		171.77	171.60		171.42		171.39	171.39		171.39	
MEAN	171.45	171.35	171.58	171.83	171.77	171.63	171.48	171.38	171.39	171.39	171.39	171.39	
MAX	171.73	171.68	172.12	173.04	173.84	172.57	171.82	171.43	171.41	171.40	171.45	171.41	173.84
MIN	171.37	171.20	171.36	171.40	171.55	171.49	171.33	171.33	171.36	171.39	171.38	171.38	171.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 175.17 M (MSL), AT 15.00 HOURS, ON AUG 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 170.60 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 641 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.40	2.66	3.32	4.20	13.68	15.50	10.06	4.48	3.54	3.98	3.98	3.98	
2	5.88	2.44	4.48	7.68	12.04	71.25	12.45	2.66	3.54	3.98	3.98	3.98	
3	4.48	2.88	7.00	5.88	13.68	41.20	14.09	3.10	3.76	3.98	3.76	3.98	
4	4.48	1.40	8.02	6.72	11.22	20.05	20.60	3.76	3.98	3.98	3.76	3.98	
5	4.20	1.20	10.40	13.27	11.63	15.00	20.05	3.76	4.20	3.98	3.76	4.20	
6	3.98	0.20	5.60	14.50	11.22	14.50	19.50	3.32	4.48	3.98	3.98	3.98	
7	3.54	0.40	8.02	10.06	15.50	11.63	10.81	3.10	4.20	3.98	3.98	3.98	
8	4.76	1.00	11.63	7.34	11.63	11.63	7.68	3.32	4.20	3.98	3.98	3.98	
9	4.48	7.00	10.06	7.34	12.45	14.09	6.44	3.10	4.48	4.20	3.98	3.98	
10	4.20	2.66	5.60	69.75	181.30	10.81	5.04	5.04	4.48	4.20	3.98	3.98	
11	4.48	0.00	18.00	27.75	72.00	9.72	5.04	4.20	4.20	3.98	3.98	3.76	
12	4.48	2.66	8.70	13.27	34.40	9.38	4.48	4.20	3.98	4.20	5.60	3.76	
13	4.48	1.00	7.34	12.04	22.80	9.04	4.20	4.20	3.76	3.98	4.20	3.98	
14	3.98	0.60	8.70	10.06	18.00	8.70	3.98	3.98	3.76	4.20	3.98	3.98	
15	3.98	0.80	8.36	42.60	15.00	8.36	4.48	3.76	3.98	3.98	3.98	3.98	
16	4.20	0.80	23.35	23.35	13.68	8.70	10.81	4.20	3.76	4.20	3.98	3.98	
17	4.48	0.60	19.00	18.00	18.00	8.70	8.02	3.76	3.54	4.20	3.98	3.98	
18	12.86	2.44	38.40	33.10	19.50	8.02	7.68	3.76	3.54	3.98	3.98	3.98	
19	11.63	3.54	15.50	108.90	18.50	8.02	5.60	2.88	3.54	3.98	3.98	3.76	
20	16.00	3.76	10.81	38.40	14.09	8.02	5.04	3.98	3.32	3.98	3.76	3.98	
21	5.60	3.54	8.70	99.90	11.63	8.02	4.20	3.98	3.98	3.98	3.98	3.98	
22	13.27	3.54	9.38	31.15	10.06	8.02	3.54	3.76	3.98	3.98	3.76	3.98	
23	8.02	9.38	11.63	16.00	9.72	7.68	3.54	3.54	3.76	3.98	3.76	3.98	
24	4.20	11.22	8.02	13.27	8.70	7.68	3.32	3.98	3.98	3.98	3.98	3.98	
25	3.98	13.68	11.63	8.36	9.72	7.34	3.54	4.20	4.20	3.98	3.98	3.98	
26	3.98	6.44	8.02	9.38	10.81	7.34	2.88	4.20	4.20	3.98	3.98	3.98	
27	3.98	4.76	6.44	7.34	9.38	7.34	2.88	4.20	3.98	3.98	3.98	3.98	
28	3.98	4.76	6.16	14.09	8.70	6.72	3.76	3.98	3.98	3.98	3.98	4.48	
29	3.98	2.66	5.60	27.20	12.04	6.72	2.66	3.98	3.76	3.98		4.20	
30	3.98	3.54	5.04	48.20	10.06	8.36	2.88	3.76	3.98	3.98		3.98	
31		3.32		18.00	10.40		4.76		3.98	3.98		3.98	
TOTAL	175.94	104.88	312.91	767.10	651.54	387.54	224.01	114.14	122.02	124.70	111.96	123.66	3220.39 CMSDAY
MEAN	5.86	3.38	10.43	24.75	21.02	12.92	7.23	3.80	3.94	4.02	4.00	3.99	8.82 CMS
MAX	16.00	13.68	38.40	108.90	181.30	71.25	20.60	5.04	4.48	4.20	5.60	4.48	181.30 CMS
MIN	3.54	0.00	3.32	4.20	8.70	6.72	2.66	2.66	3.32	3.98	3.76	3.76	0.00 CMS
RUNOFF	15.201	9.062	27.035	66.277	56.293	33.483	19.354	9.862	10.543	10.774	9.673	10.684	278.242 MCM

MOMENTARY PEAK 317.70 CMS, AT 175.17 M (MSL), AT 15.00 HOURS, ON AUG 10, 1981

RUNOFF YIELD 13.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 495.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KHONG RIVER BASIN

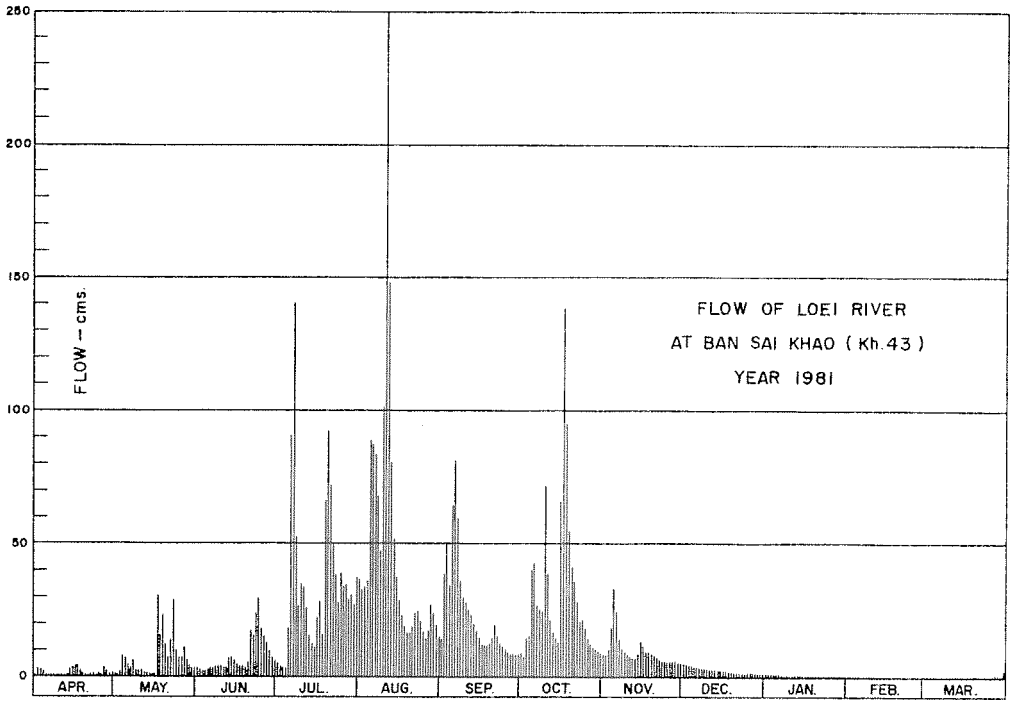
LOEI RIVER AT BAN SAI KHAO, LOEI (KH.43)

LOCATION	LAT. 17°-14'-15" N., LONG. 101°-41'-31" E., ON LEFT BANK DOWNSTREAM OF NAT KO KAM AT BAN SAI KHAO, AMPHOE NANG SAPHUNG, LOEI.
DRAINAGE AREA	991 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	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	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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 151 DISCHARGE MEASUREMENTS MADE IN 1981

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.71	0.84	0.92	1.71	1.22	1.08	1.06	0.92	0.71	0.66	0.60	
2	0.82	0.69	0.80	0.89	1.63	1.93	1.03	1.04	0.90	0.71	0.65	0.60	
3	0.81	0.74	0.76	0.86	1.66	1.68	1.24	1.08	0.88	0.70	0.64	0.59	
4	0.72	1.04	0.77	0.84	1.64	1.65	1.28	1.37	0.86	0.70	0.64	0.59	
5	0.68	1.02	0.78	0.85	2.51	2.19	1.76	1.65	0.86	0.69	0.64	0.58	
6	0.66	0.90	0.85	2.90	2.49	2.41	1.81	1.40	0.85	0.69	0.64	0.58	
7	0.65	0.82	0.83	3.17	2.42	2.05	1.51	1.24	0.84	0.70	0.64	0.58	
8	0.65	0.98	0.89	1.96	2.10	1.70	1.50	1.14	0.83	0.70	0.63	0.58	
9	0.64	0.81	0.89	1.50	1.77	1.57	1.46	1.09	0.82	0.69	0.63	0.58	
10	0.64	0.76	0.88	1.68	2.84	1.54	2.27	1.05	0.81	0.69	0.63	0.58	
11	0.64	0.79	0.85	1.65	5.03	1.47	1.71	1.03	0.80	0.68	0.62	0.58	
12	0.63	0.75	0.83	1.39	3.01	1.46	1.41	1.01	0.80	0.68	0.62	0.58	
13	0.65	0.73	1.01	1.27	2.18	1.38	1.30	0.99	0.79	0.68	0.62	0.58	
14	0.82	0.71	1.03	1.18	1.88	1.32	1.24	1.08	0.78	0.68	0.62	0.57	
15	0.85	0.71	0.97	1.15	1.66	1.24	1.18	1.22	0.78	0.68	0.62	0.57	
16	0.87	0.70	0.92	1.46	1.52	1.20	2.85	1.15	0.77	0.68	0.62	0.57	
17	0.90	1.60	0.88	1.56	1.41	1.18	3.14	1.08	0.76	0.70	0.62	0.56	
18	0.77	1.20	0.90	1.26	1.34	1.19	2.52	1.10	0.76	0.71	0.61	0.56	
19	0.71	1.45	0.83	2.21	1.30	1.19	1.92	1.07	0.75	0.71	0.63	0.56	
20	0.69	1.15	0.94	2.57	1.29	1.24	1.78	1.04	0.75	0.71	0.64	0.56	
21	0.69	1.00	1.33	2.31	1.34	1.37	1.67	1.01	0.74	0.70	0.63	0.56	
22	0.72	1.24	1.26	1.95	1.47	1.22	1.53	1.00	0.74	0.70	0.62	0.56	
23	0.73	1.56	1.47	1.72	1.48	1.19	1.39	0.98	0.73	0.70	0.62	0.56	
24	0.69	1.06	1.58	1.52	1.39	1.15	1.42	0.97	0.73	0.69	0.62	0.56	
25	0.73	1.03	1.34	1.75	1.29	1.12	1.33	0.95	0.73	0.68	0.62	0.56	
26	0.69	1.00	1.26	1.66	1.23	1.08	1.25	0.94	0.74	0.68	0.61	0.59	
27	0.86	1.12	1.21	1.67	1.28	1.05	1.20	0.96	0.73	0.67	0.61	0.71	
28	0.73	0.96	1.10	1.52	1.53	1.05	1.16	0.94	0.73	0.67	0.61	0.68	
29	0.71	0.87	1.03	1.60	1.47	1.05	1.12	0.95	0.73	0.67		0.64	
30	0.75	0.82	0.97	1.48	1.38	1.06	1.10	0.93	0.72	0.67		0.60	
31		0.82		1.72	1.27		1.08		0.72	0.67		0.90	
MEAN	0.72	0.96	1.00	1.62	1.82	1.40	1.56	1.08	0.79	0.69	0.63	0.60	
MAX	0.90	1.60	1.58	3.17	5.03	2.41	3.14	1.65	0.92	0.71	0.66	0.90	5.03
MIN	0.63	0.69	0.76	0.84	1.23	1.05	1.03	0.93	0.72	0.67	0.61	0.56	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.46 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.70	1.18	3.52	5.08	36.55	13.54	9.00	8.50	5.08	1.18	0.80	0.50	
2	3.16	0.95	2.80	4.42	32.15	49.45	7.75	8.00	4.60	1.18	0.75	0.50	
3	2.98	1.72	2.08	3.88	33.80	34.90	14.28	9.00	4.24	1.00	0.70	0.45	
4	1.36	8.00	2.26	3.52	32.70	33.25	15.76	19.30	3.88	1.00	0.70	0.45	
5	0.90	7.50	2.44	3.70	88.70	66.35	39.30	33.25	3.88	0.95	0.70	0.40	
6	0.80	4.60	3.70	117.50	87.30	81.70	42.10	20.50	3.70	0.95	0.70	0.40	
7	0.75	3.16	3.34	140.80	82.40	57.25	26.00	14.28	3.52	1.00	0.70	0.40	
8	0.75	6.52	4.42	51.40	60.50	36.00	25.50	10.82	3.34	1.00	0.65	0.40	
9	0.70	2.98	4.42	25.50	39.85	29.00	23.50	9.25	3.16	0.95	0.65	0.40	
10	0.70	2.08	4.24	34.90	112.70	27.50	71.90	8.25	2.98	0.95	0.65	0.40	
11	0.70	2.62	3.70	33.25	329.30	24.00	36.55	7.75	2.80	0.90	0.60	0.40	
12	0.65	1.90	3.34	20.10	126.85	23.50	21.00	7.25	2.80	0.90	0.60	0.40	
13	0.75	1.54	7.25	15.39	65.70	19.70	16.50	6.76	2.62	0.90	0.60	0.40	
14	3.16	1.18	7.75	12.14	46.30	17.30	14.28	9.00	2.44	0.90	0.60	0.35	
15	3.70	1.18	6.28	11.15	33.80	14.28	12.14	13.54	2.44	0.90	0.60	0.35	
16	4.06	1.00	5.08	23.50	26.50	12.80	113.50	11.15	2.26	0.90	0.60	0.35	
17	4.60	30.50	4.24	28.50	21.00	12.14	138.10	9.00	2.08	1.00	0.60	0.30	
18	2.26	12.80	4.60	15.32	18.10	12.47	89.40	9.50	2.08	1.18	0.55	0.30	
19	1.18	23.00	3.34	67.70	16.50	12.47	48.80	8.75	1.90	1.18	0.65	0.30	
20	0.95	11.15	5.56	92.90	16.13	14.28	40.40	8.00	1.90	1.18	0.70	0.30	
21	0.95	7.00	17.70	74.70	18.10	19.30	34.35	7.25	1.72	1.00	0.65	0.30	
22	1.36	14.28	15.02	50.75	24.00	13.54	27.00	7.00	1.72	1.00	0.60	0.30	
23	1.54	28.50	24.00	37.10	24.50	12.47	20.10	6.52	1.54	1.00	0.60	0.30	
24	0.95	8.50	29.50	26.50	20.10	11.15	21.50	6.28	1.54	0.95	0.60	0.30	
25	1.54	7.75	18.10	38.75	16.13	10.16	17.70	5.80	1.54	0.90	0.60	0.30	
26	0.95	7.00	15.02	33.80	13.91	9.00	14.65	5.56	1.72	0.90	0.55	0.45	
27	3.88	10.16	13.17	34.35	15.76	8.25	12.80	6.04	1.54	0.85	0.55	1.18	
28	1.54	6.04	9.50	26.50	27.00	8.25	11.48	5.56	1.54	0.85	0.55	0.90	
29	1.18	4.06	7.75	30.50	24.00	8.25	10.16	5.80	1.54	0.85		0.70	
30	1.90	3.16	6.28	24.50	19.70	8.50	9.50	5.32	1.36	0.85		0.50	
31		3.16		37.10	15.39		9.00		1.36	0.85		4.60	
TOTAL	50.60	225.17	240.40	1124.90	1525.42	700.75	994.00	292.98	78.82	30.10	17.80	17.58	5298.51 CMSDAY
MEAN	1.69	7.26	8.01	36.29	49.21	23.36	32.06	9.77	2.54	0.97	0.64	0.57	14.52 CMS
MAX	4.60	30.50	29.50	140.80	329.30	81.70	138.10	33.25	5.08	1.18	0.80	4.60	329.30 CMS
MIN	0.65	0.95	2.08	3.52	13.91	8.25	7.75	5.32	1.36	0.85	0.55	0.30	0.30 CMS
RUNOFF	4.372	19.455	20.771	97.191	131.796	60.545	85.882	25.313	6.810	2.601	1.538	1.519	457.791 MCM

MOMENTARY PEAK 376.60 CMS, AT 5.46 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 14.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 380.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE 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 AT — +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 18.00 HOURS.

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 TO DATE

RATED BY FLOAT — -

RATED BY CURRENT METER — 1968 - 1973,1981 TO DATE

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

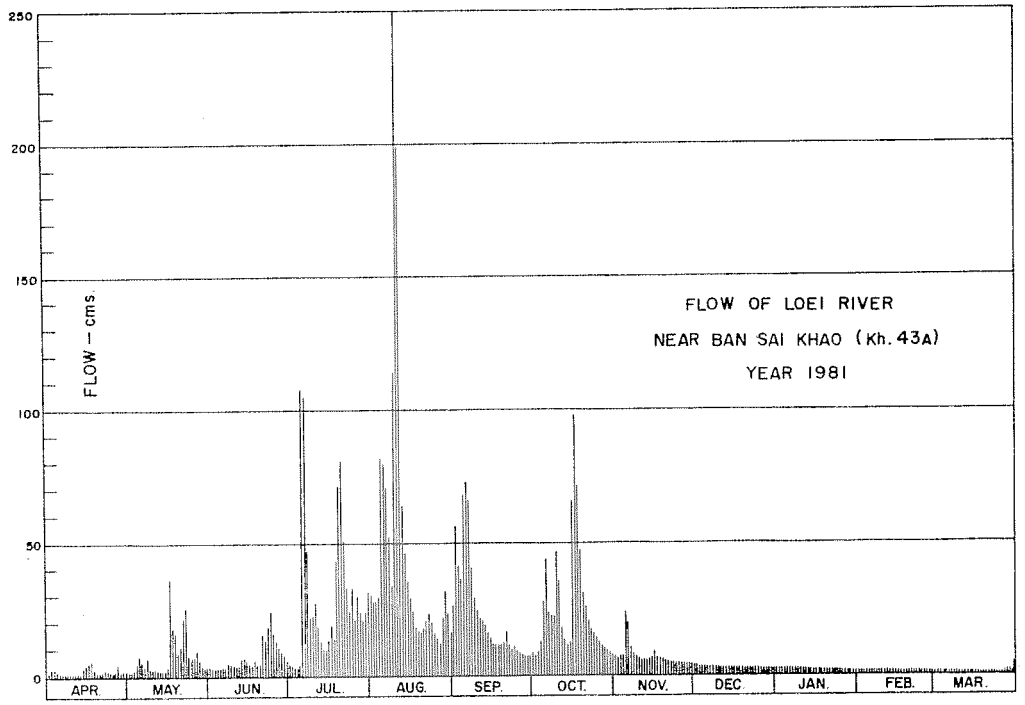
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.71	1.78	1.91	1.96	2.78	2.70	2.15	2.10	1.94	1.83	1.77	1.75	
2	1.89	1.75	1.87	1.94	2.70	3.27	2.08	2.08	1.92	1.83	1.77	1.75	
3	1.88	1.81	1.85	1.91	2.71	2.95	2.17	2.12	1.91	1.83	1.77	1.75	
4	1.78	1.94	1.85	1.88	2.73	2.89	2.27	2.09	1.90	1.82	1.77	1.75	
5	1.74	2.11	1.83	1.90	3.70	3.43	2.71	2.61	1.90	1.81	1.77	1.75	
6	1.72	1.96	1.91	4.06	3.65	3.56	3.05	2.50	1.89	1.81	1.77	1.74	
7	1.71	1.88	1.88	4.03	3.51	3.41	2.62	2.20	1.88	1.81	1.77	1.74	
8	1.71	2.10	1.96	3.02	3.17	2.83	2.59	2.13	1.88	1.81	1.76	1.74	
9	1.70	1.88	1.96	2.56	2.85	2.68	2.55	2.08	1.87	1.81	1.76	1.74	
10	1.70	1.85	1.95	2.59	3.67	2.64	3.09	2.06	1.87	1.80	1.76	1.73	
11	1.70	1.86	1.90	2.70	5.77	2.54	2.70	2.05	1.87	1.80	1.76	1.73	
12	1.69	1.82	1.89	2.43	4.42	2.53	2.40	2.04	1.87	1.80	1.76	1.73	
13	1.71	1.80	2.06	2.33	3.34	2.47	2.30	2.03	1.86	1.80	1.76	1.73	
14	1.90	1.78	2.08	2.21	3.06	2.40	2.26	2.07	1.86	1.80	1.76	1.72	
15	1.95	1.79	2.01	2.21	2.84	2.33	2.20	2.06	1.86	1.80	1.76	1.72	
16	1.97	1.77	1.97	2.34	2.67	2.28	3.76	2.16	1.85	1.80	1.76	1.72	
17	2.03	2.90	1.94	2.49	2.56	2.27	3.92	2.07	1.85	1.80	1.76	1.71	
18	1.86	2.28	2.01	2.33	2.47	2.28	3.39	2.06	1.85	1.80	1.76	1.71	
19	1.79	2.43	1.89	3.28	2.42	2.27	2.88	2.05	1.85	1.80	1.77	1.71	
20	1.77	2.16	1.90	3.69	2.39	2.28	2.75	2.04	1.85	1.80	1.78	1.70	
21	1.76	2.18	2.39	3.32	2.46	2.43	2.68	2.02	1.85	1.80	1.77	1.70	
22	1.83	2.53	2.29	3.05	2.56	2.26	2.51	1.99	1.85	1.80	1.76	1.70	
23	1.83	2.66	2.45	2.84	2.60	2.20	2.43	1.99	1.85	1.80	1.76	1.70	
24	1.78	2.12	2.63	2.62	2.50	2.25	2.41	1.98	1.84	1.79	1.76	1.70	
25	1.79	2.10	2.39	2.84	2.40	2.19	2.37	1.97	1.84	1.78	1.76	1.70	
26	1.75	2.07	2.32	2.52	2.32	2.14	2.27	1.96	1.84	1.78	1.76	1.75	
27	1.97	2.19	2.23	2.77	2.27	2.11	2.23	1.98	1.84	1.77	1.75	1.86	
28	1.79	2.02	2.15	2.60	2.58	2.10	2.20	1.95	1.84	1.77	1.75	1.79	
29	1.77	1.94	2.10	2.50	2.80	2.12	2.17	1.96	1.84	1.77		1.76	
30	1.83	1.89	2.01	2.57	2.54	2.11	2.14	1.95	1.84	1.77		1.73	
31		1.91		2.80	2.40		2.12		1.84	1.77		2.19	
MEAN	1.80	2.04	2.05	2.65	2.93	2.53	2.56	2.08	1.86	1.80	1.76	1.75	
MAX	2.03	2.90	2.63	4.06	5.77	3.56	3.92	2.61	1.94	1.83	1.78	2.19	5.77
MIN	1.69	1.75	1.83	1.88	2.27	2.10	2.08	1.95	1.84	1.77	1.75	1.70	1.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.38 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.40 M (A.D)

LEFT BANK ELEVATION 8.01 M (A.D)

RIGHT BANK ELEVATION 8.70 M (A.D), DRAINAGE AREA 790 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.0	1.7	3.3	4.2	30.4	27.0	8.3	7.1	3.9	2.3	1.6	1.4	
2	3.0	1.4	2.7	3.9	27.0	55.2	6.7	6.7	3.5	2.3	1.6	1.4	
3	2.9	2.0	2.5	3.3	27.4	38.5	8.8	7.6	3.3	2.3	1.6	1.4	
4	1.7	3.9	2.5	2.9	28.3	35.5	11.6	6.9	3.1	2.1	1.6	1.4	
5	1.3	7.3	2.3	3.1	81.5	64.2	27.4	23.4	3.1	2.0	1.6	1.4	
6	1.1	4.2	3.3	108.3	78.2	72.4	43.5	19.0	3.0	2.0	1.6	1.3	
7	1.0	2.9	2.9	105.9	69.1	63.0	23.8	9.6	2.9	2.0	1.6	1.3	
8	1.0	7.1	4.2	42.0	49.8	32.6	22.6	7.8	2.9	2.0	1.5	1.3	
9	0.9	2.9	4.2	21.4	33.6	26.2	21.0	6.7	2.7	2.0	1.5	1.3	
10	0.9	2.5	4.0	22.6	79.5	24.6	45.5	6.3	2.7	1.9	1.5	1.2	
11	0.9	2.6	3.1	27.0	281.5	20.6	27.0	6.0	2.7	1.9	1.5	1.2	
12	0.8	2.1	3.0	16.6	139.8	20.2	15.6	5.8	2.7	1.9	1.5	1.2	
13	1.0	1.9	6.3	13.4	59.1	18.0	12.5	5.6	2.6	1.9	1.5	1.2	
14	3.1	1.7	6.7	9.9	44.0	15.6	11.3	6.5	2.6	1.9	1.5	1.1	
15	4.0	1.8	5.2	9.9	33.1	13.4	9.6	6.3	2.6	1.9	1.5	1.1	
16	4.4	1.6	4.4	13.7	25.8	11.9	85.7	8.6	2.5	1.9	1.5	1.1	
17	5.6	36.0	3.9	18.7	21.4	11.6	97.5	6.5	2.5	1.9	1.5	1.0	
18	2.6	11.9	5.2	13.4	18.0	11.9	61.8	6.3	2.5	1.9	1.5	1.0	
19	1.8	16.6	3.0	55.8	16.3	11.6	35.0	6.0	2.5	1.9	1.6	1.0	
20	1.6	8.6	3.1	80.8	15.3	11.9	29.1	5.8	2.5	1.9	1.7	0.9	
21	1.5	9.1	15.3	58.0	17.6	16.6	26.2	5.4	2.5	1.9	1.6	0.9	
22	2.3	20.2	12.2	43.5	21.4	11.3	19.4	4.8	2.5	1.9	1.5	0.9	
23	2.3	25.4	17.3	33.1	23.0	9.6	16.6	4.8	2.5	1.9	1.5	0.9	
24	1.7	7.6	24.2	23.8	19.0	11.1	15.9	4.6	2.4	1.8	1.5	0.9	
25	1.8	7.1	15.3	33.1	15.6	9.3	14.7	4.4	2.4	1.7	1.5	0.9	
26	1.4	6.5	13.1	19.8	13.1	8.1	11.6	4.2	2.4	1.7	1.5	1.4	
27	4.4	9.3	10.5	29.9	11.6	7.3	10.5	4.6	2.4	1.6	1.4	2.6	
28	1.8	5.4	8.3	23.0	22.2	7.1	9.6	4.0	2.4	1.6	1.4	1.8	
29	1.6	3.9	7.1	19.0	31.2	7.6	8.8	4.2	2.4	1.6		1.5	
30	2.3	3.0	5.2	21.8	20.6	7.3	8.1	4.0	2.4	1.6		1.2	
31		3.3		31.2	15.6		7.6		2.4	1.6		9.3	
TOTAL	61.7	221.5	204.3	913.0	1370.0	681.2	753.3	209.5	83.5	58.8	42.9	46.5	4646.2 CMSDAY
MEAN	2.1	7.1	6.8	29.5	44.2	22.7	24.3	7.0	2.7	1.9	1.5	1.5	12.7 CMS
MAX	5.6	36.0	24.2	108.3	281.5	72.4	97.5	23.4	3.9	2.3	1.7	9.3	281.5 CMS
MIN	0.8	1.4	2.3	2.9	11.6	7.1	6.7	4.0	2.4	1.6	1.4	0.9	0.8 CMS
RUNOFF	5.33	19.14	17.65	78.88	118.37	58.86	65.09	18.10	7.21	5.08	3.71	4.02	401.43 MCM

MOMENTARY PEAK 355.50 CMS, AT 6.38 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 16.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 450.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE 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-NONG BUA LAMPHU HIGHWAY, AMPHOE NONG WUA SO, UDON THANI.
DRAINAGE AREA	436 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK UPSTREAM FROM THE GAGE SITE.
ELEVATION	+5.885 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	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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 72 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

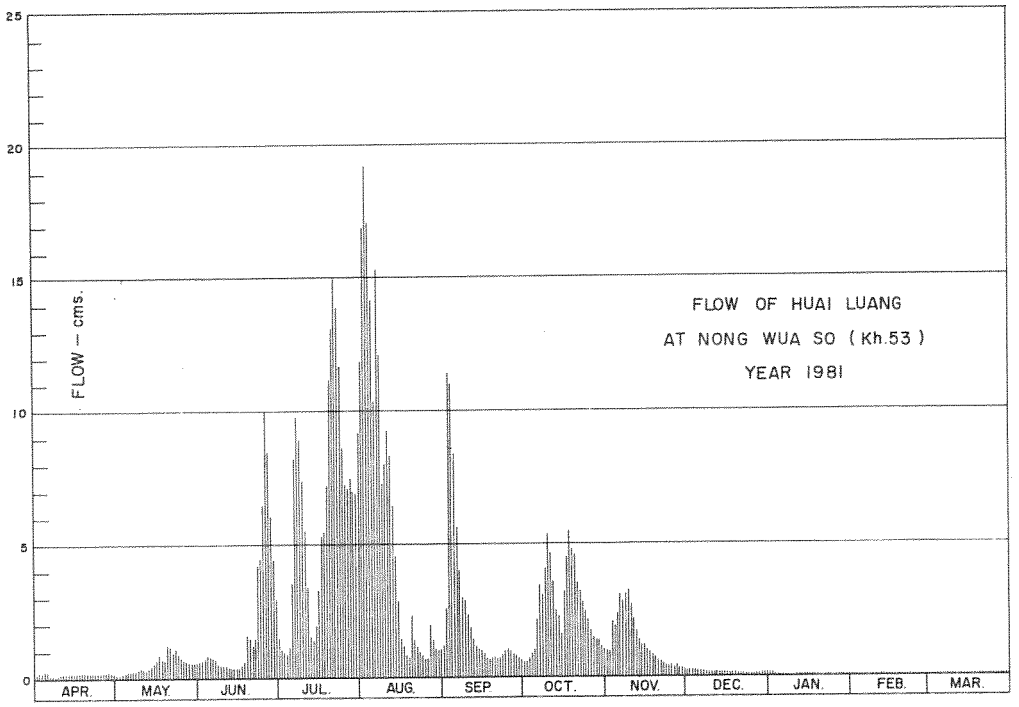
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.12	-0.15	0.02	0.18	1.28	0.14	0.00	0.10	-0.09	-0.14	-0.19	-0.19	
2	-0.10	-0.17	0.02	0.11	1.58	0.35	0.00	0.09	-0.09	-0.14	-0.19	-0.19	
3	-0.13	-0.14	0.02	0.08	1.74	1.15	0.03	0.28	-0.09	-0.16	-0.19	-0.19	
4	-0.14	-0.12	0.06	0.06	1.58	1.11	0.06	0.25	-0.10	-0.20	-0.19	-0.19	
5	-0.15	-0.11	0.05	0.15	1.33	0.87	0.11	0.33	-0.11	-0.19	-0.19	-0.19	
6	-0.16	-0.11	0.05	0.49	1.07	0.62	0.32	0.40	-0.11	-0.19	-0.19	-0.19	
7	-0.17	-0.11	0.03	1.03	1.53	0.43	0.44	0.36	-0.11	-0.18	-0.19	-0.19	
8	-0.17	-0.11	-0.02	1.02	1.25	0.38	0.40	0.40	-0.13	-0.18	-0.19	-0.19	
9	-0.17	-0.10	-0.02	0.94	0.81	0.37	0.54	0.42	-0.13	-0.18	-0.19	-0.18	
10	-0.15	-0.05	-0.03	0.83	0.88	0.32	0.64	0.35	-0.14	-0.18	-0.18	-0.18	
11	-0.12	-0.07	-0.04	0.61	0.99	0.25	0.53	0.26	-0.14	-0.18	-0.18	-0.19	
12	-0.13	-0.08	-0.04	0.38	0.91	0.18	0.44	0.23	-0.14	-0.18	-0.18	-0.19	
13	-0.13	-0.05	-0.05	0.20	0.72	0.13	0.33	0.18	-0.13	-0.18	-0.18	-0.19	
14	-0.12	-0.04	-0.05	0.15	0.57	0.12	0.31	0.14	-0.13	-0.18	-0.18	-0.19	
15	-0.12	0.01	-0.05	0.26	0.39	0.10	0.21	0.15	-0.15	-0.18	-0.18	-0.19	
16	-0.12	0.03	-0.06	0.48	0.18	0.08	0.42	0.10	-0.15	-0.18	-0.18	-0.19	
17	-0.12	0.07	-0.03	0.63	0.13	0.05	0.54	0.09	-0.15	-0.18	-0.19	-0.19	
18	-0.12	0.04	0.03	0.64	0.06	0.03	0.65	0.07	-0.16	-0.18	-0.19	-0.19	
19	-0.12	0.01	0.22	0.79	0.05	0.04	0.58	0.05	-0.16	-0.19	-0.19	-0.19	
20	-0.12	0.15	0.19	1.06	0.31	0.04	0.56	0.02	-0.16	-0.19	-0.19	-0.19	
21	-0.13	0.13	0.14	1.28	0.17	0.03	0.46	0.00	-0.16	-0.19	-0.19	-0.19	
22	-0.13	0.08	0.21	1.43	0.14	0.04	0.42	-0.01	-0.16	-0.19	-0.19	-0.19	
23	-0.13	0.11	0.52	1.35	0.09	0.07	0.38	-0.03	-0.16	-0.19	-0.19	-0.19	
24	-0.13	0.07	0.55	1.17	0.06	0.10	0.32	-0.05	-0.16	-0.19	-0.19	-0.19	
25	-0.12	0.05	0.82	0.96	0.03	0.11	0.29	-0.04	-0.16	-0.19	-0.19	-0.19	
26	-0.12	0.03	1.05	0.82	0.03	0.10	0.24	-0.05	-0.15	-0.19	-0.19	-0.19	
27	-0.12	0.02	0.87	0.80	0.26	0.08	0.20	-0.04	-0.14	-0.19	-0.19	-0.19	
28	-0.12	0.01	0.62	0.84	0.15	0.07	0.18	-0.05	-0.14	-0.19	-0.19	-0.18	
29	-0.12	0.01	0.49	0.79	0.11	0.06	0.18	-0.07	-0.14	-0.19		-0.18	
30	-0.12	0.01	0.32	0.75	0.10	0.03	0.14	-0.09	-0.14	-0.19		-0.17	
31		0.01		0.93	0.11		0.11		-0.14	-0.19		-0.17	
MEAN	-0.13	-0.02	0.20	0.68	0.60	0.25	0.32	0.13	-0.14	-0.18	-0.19	-0.19	
MAX	-0.10	0.15	1.05	1.43	1.74	1.15	0.65	0.42	-0.09	-0.14	-0.18	-0.17	1.74
MIN	-0.17	-0.17	-0.06	0.06	0.03	0.03	0.00	-0.09	-0.16	-0.20	-0.19	-0.19	-0.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.77 M (A.D), AT 11.00 HOURS, ON AUG 3, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 436 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.11	0.62	1.40	12.99	1.20	0.53	1.00	0.25	0.13	0.02	0.02	
2	0.22	0.07	0.62	1.05	16.93	2.64	0.53	0.95	0.25	0.13	0.02	0.02	
3	0.15	0.13	0.62	0.91	19.16	11.30	0.67	2.08	0.25	0.09	0.02	0.02	
4	0.13	0.18	0.81	0.81	16.93	10.78	0.81	1.86	0.22	0.00	0.02	0.02	
5	0.11	0.20	0.76	1.25	13.64	7.80	1.05	2.47	0.20	0.02	0.02	0.02	
6	0.09	0.20	0.76	3.86	10.26	5.12	2.39	3.06	0.20	0.02	0.02	0.02	
7	0.07	0.20	0.67	9.74	16.25	3.33	3.42	2.72	0.20	0.04	0.02	0.02	
8	0.07	0.20	0.47	9.61	12.60	2.89	3.06	3.06	0.15	0.04	0.02	0.02	
9	0.07	0.22	0.47	8.63	7.11	2.81	4.34	3.24	0.15	0.04	0.02	0.04	
10	0.11	0.37	0.44	7.34	7.92	2.39	5.32	2.64	0.13	0.04	0.04	0.04	
11	0.18	0.31	0.41	5.02	9.23	1.86	4.24	1.93	0.13	0.04	0.04	0.02	
12	0.15	0.28	0.41	2.89	8.27	1.40	3.42	1.72	0.13	0.04	0.04	0.02	
13	0.15	0.37	0.37	1.50	6.14	1.15	2.47	1.40	0.15	0.04	0.04	0.02	
14	0.18	0.41	0.37	1.25	4.63	1.10	2.30	1.20	0.15	0.04	0.04	0.02	
15	0.18	0.58	0.37	1.93	2.98	1.00	1.57	1.25	0.11	0.04	0.04	0.02	
16	0.18	0.67	0.34	3.77	1.40	0.91	3.24	1.00	0.11	0.04	0.04	0.02	
17	0.18	0.86	0.44	5.22	1.15	0.76	4.34	0.95	0.11	0.04	0.02	0.02	
18	0.18	0.72	0.67	5.32	0.81	0.67	5.42	0.86	0.09	0.04	0.02	0.02	
19	0.18	0.58	1.64	6.89	0.76	0.72	4.73	0.76	0.09	0.02	0.02	0.02	
20	0.18	1.25	1.45	10.13	2.30	0.72	4.53	0.62	0.09	0.02	0.02	0.02	
21	0.15	1.15	1.20	12.99	1.35	0.67	3.59	0.53	0.09	0.02	0.02	0.02	
22	0.15	0.91	1.57	14.94	1.20	0.72	3.24	0.50	0.09	0.02	0.02	0.02	
23	0.15	1.05	4.14	13.90	0.95	0.86	2.89	0.44	0.09	0.02	0.02	0.02	
24	0.15	0.86	4.43	11.56	0.81	1.00	2.39	0.37	0.09	0.02	0.02	0.02	
25	0.18	0.76	7.23	8.87	0.67	1.05	2.15	0.41	0.09	0.02	0.02	0.02	
26	0.18	0.67	10.00	7.23	0.67	1.00	1.79	0.37	0.11	0.02	0.02	0.02	
27	0.18	0.62	7.80	7.00	1.93	0.91	1.50	0.41	0.13	0.02	0.02	0.02	
28	0.18	0.58	5.12	7.46	1.25	0.86	1.40	0.37	0.13	0.02	0.02	0.04	
29	0.18	0.58	3.86	6.89	1.05	0.81	1.40	0.31	0.13	0.02		0.04	
30	0.18	0.58	2.39	6.46	1.00	0.67	1.20	0.25	0.13	0.02		0.07	
31		0.58		8.51	1.05		1.05		0.13	0.02		0.07	
TOTAL	4.62	16.25	60.45	194.33	183.39	69.10	80.98	38.73	4.37	1.13	0.70	0.80	654.85 CMSDAY
MEAN	0.15	0.52	2.01	6.27	5.92	2.30	2.61	1.29	0.14	0.04	0.02	0.03	1.79 CMS
MAX	0.22	1.25	10.00	14.94	19.16	11.30	5.42	3.24	0.25	0.13	0.04	0.07	19.16 CMS
MIN	0.07	0.07	0.34	0.81	0.67	0.67	0.53	0.25	0.09	0.00	0.02	0.02	0.00 CMS
RUNOFF	0.399	1.404	5.223	16.790	15.845	5.970	6.997	3.346	0.378	0.098	0.060	0.069	56.579 MCM

MOMENTARY PEAK 19.58 CMS, AT 1.77 M (A.D), AT 11.00 HOURS, ON AUG 3, 1981
RUNOFF YIELD 4.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 44.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 81 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

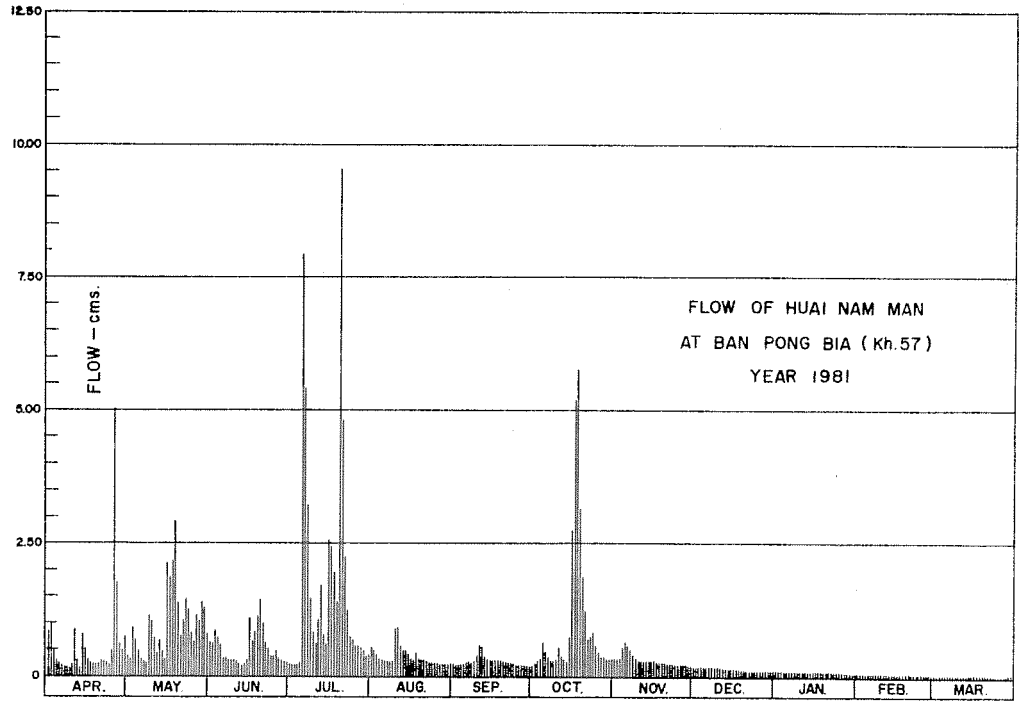
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.51	0.56	0.46	0.54	0.46	0.44	0.49	0.43	0.39	0.35	0.33	
2	0.62	0.50	0.55	0.45	0.53	0.45	0.46	0.49	0.43	0.39	0.35	0.33	
3	0.53	0.61	0.60	0.45	0.51	0.45	0.48	0.49	0.43	0.39	0.35	0.33	
4	0.49	0.56	0.58	0.45	0.50	0.45	0.50	0.54	0.43	0.39	0.35	0.33	
5	0.46	0.52	0.55	0.46	0.49	0.45	0.56	0.56	0.43	0.39	0.35	0.33	
6	0.45	0.50	0.50	1.27	0.49	0.47	0.52	0.54	0.43	0.39	0.35	0.33	
7	0.44	0.48	0.51	1.00	0.49	0.48	0.49	0.53	0.43	0.39	0.35	0.33	
8	0.43	0.47	0.50	0.75	0.47	0.47	0.48	0.51	0.43	0.39	0.35	0.33	
9	0.43	0.64	0.50	0.63	0.48	0.48	0.48	0.50	0.43	0.38	0.35	0.33	
10	0.43	0.62	0.50	0.58	0.61	0.52	0.49	0.49	0.43	0.38	0.35	0.33	
11	0.61	0.56	0.48	0.56	0.61	0.55	0.54	0.48	0.42	0.38	0.35	0.33	
12	0.48	0.52	0.46	0.63	0.55	0.54	0.51	0.48	0.42	0.38	0.35	0.32	
13	0.97	0.57	0.45	0.71	0.53	0.50	0.50	0.48	0.42	0.38	0.35	0.32	
14	0.59	0.52	0.46	0.56	0.53	0.50	0.48	0.48	0.42	0.38	0.35	0.32	
15	0.53	0.50	0.45	0.55	0.52	0.49	0.48	0.48	0.42	0.38	0.35	0.32	
16	0.49	0.76	0.63	0.81	0.50	0.48	0.85	0.48	0.41	0.37	0.35	0.32	
17	0.47	0.73	0.56	0.79	0.49	0.49	1.10	0.47	0.41	0.37	0.35	0.32	
18	0.46	0.77	0.60	0.71	0.52	0.49	1.11	0.47	0.41	0.37	0.35	0.32	
19	0.46	0.85	0.64	0.67	0.50	0.49	0.80	0.47	0.41	0.37	0.35	0.31	
20	0.45	0.65	0.68	1.37	0.50	0.48	0.72	0.46	0.40	0.37	0.34	0.31	
21	0.49	0.58	0.62	0.89	0.49	0.47	0.63	0.46	0.40	0.37	0.34	0.31	
22	0.50	0.62	0.56	0.71	0.48	0.47	0.57	0.46	0.40	0.37	0.34	0.31	
23	0.46	0.68	0.53	0.62	0.47	0.47	0.58	0.46	0.40	0.37	0.34	0.31	
24	0.45	0.63	0.51	0.58	0.47	0.45	0.60	0.45	0.40	0.37	0.34	0.30	
25	0.44	0.58	0.51	0.57	0.47	0.45	0.55	0.45	0.40	0.36	0.34	0.30	
26	1.05	0.56	0.53	0.55	0.46	0.44	0.52	0.45	0.40	0.36	0.34	0.30	
27	0.63	0.64	0.50	0.55	0.45	0.44	0.51	0.45	0.40	0.36	0.34	0.30	
28	0.54	0.62	0.49	0.54	0.45	0.44	0.51	0.45	0.40	0.36	0.34	0.31	
29	0.53	0.68	0.48	0.53	0.46	0.44	0.50	0.44	0.40	0.36		0.31	
30	0.53	0.65	0.47	0.51	0.45	0.44	0.50	0.44	0.40	0.36		0.31	
31		0.59		0.51	0.46		0.50		0.40	0.36		0.31	
MEAN	0.54	0.60	0.53	0.66	0.50	0.47	0.58	0.48	0.41	0.38	0.35	0.32	
MAX	1.05	0.85	0.68	1.37	0.61	0.55	1.11	0.56	0.43	0.39	0.35	0.33	1.37
MIN	0.43	0.47	0.45	0.45	0.45	0.44	0.44	0.44	0.40	0.36	0.34	0.30	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.08 M (A.D), AT 19.00 HOURS, ON JUL 20, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)

LEFT BANK ELEVATION 7.49 M (A.D)

RIGHT BANK ELEVATION 4.33 M (A.D), DRAINAGE AREA 79 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.85	0.37	0.64	0.23	0.53	0.23	0.19	0.30	0.17	0.09	0.05	0.03	
2	1.00	0.32	0.58	0.21	0.48	0.21	0.23	0.30	0.17	0.09	0.05	0.03	
3	0.48	0.92	0.85	0.21	0.37	0.21	0.28	0.30	0.17	0.09	0.05	0.03	
4	0.30	0.64	0.74	0.21	0.32	0.21	0.32	0.53	0.17	0.09	0.05	0.03	
5	0.23	0.43	0.58	0.23	0.30	0.21	0.64	0.64	0.17	0.09	0.05	0.03	
6	0.21	0.32	0.32	7.95	0.30	0.25	0.43	0.53	0.17	0.09	0.05	0.03	
7	0.19	0.28	0.37	4.48	0.30	0.28	0.30	0.48	0.17	0.09	0.05	0.03	
8	0.17	0.25	0.32	2.02	0.25	0.25	0.28	0.37	0.17	0.09	0.05	0.03	
9	0.17	1.15	0.32	1.08	0.28	0.28	0.28	0.32	0.17	0.08	0.05	0.03	
10	0.17	1.00	0.32	0.74	0.92	0.43	0.30	0.30	0.17	0.08	0.05	0.03	
11	0.92	0.64	0.28	0.64	0.92	0.58	0.53	0.28	0.14	0.08	0.05	0.03	
12	0.28	0.43	0.23	1.08	0.58	0.53	0.37	0.28	0.14	0.08	0.05	0.02	
13	4.16	0.69	0.21	1.68	0.48	0.32	0.32	0.28	0.14	0.08	0.05	0.02	
14	0.80	0.43	0.23	0.64	0.48	0.32	0.28	0.28	0.14	0.08	0.05	0.02	
15	0.48	0.32	0.21	0.58	0.43	0.30	0.28	0.28	0.14	0.08	0.05	0.02	
16	0.30	2.11	1.08	2.54	0.32	0.28	2.92	0.28	0.12	0.07	0.05	0.02	
17	0.25	1.85	0.64	2.36	0.30	0.30	5.63	0.25	0.12	0.07	0.05	0.02	
18	0.23	2.19	0.85	1.68	0.43	0.30	5.76	0.25	0.12	0.07	0.05	0.02	
19	0.23	2.92	1.15	1.37	0.32	0.30	2.45	0.25	0.12	0.07	0.05	0.01	
20	0.21	1.23	1.45	9.52	0.32	0.28	1.77	0.23	0.10	0.07	0.04	0.01	
21	0.30	0.74	1.00	3.30	0.30	0.25	1.08	0.23	0.10	0.07	0.04	0.01	
22	0.32	1.00	0.64	1.68	0.28	0.25	0.69	0.23	0.10	0.07	0.04	0.01	
23	0.23	1.45	0.48	1.00	0.25	0.25	0.74	0.23	0.10	0.07	0.04	0.01	
24	0.21	1.08	0.37	0.74	0.25	0.21	0.85	0.21	0.10	0.07	0.04	0.00	
25	0.19	0.74	0.37	0.69	0.25	0.21	0.58	0.21	0.10	0.06	0.04	0.00	
26	5.05	0.64	0.48	0.58	0.23	0.19	0.43	0.21	0.10	0.06	0.04	0.00	
27	1.08	1.15	0.32	0.58	0.21	0.19	0.37	0.21	0.10	0.06	0.04	0.00	
28	0.53	1.00	0.30	0.53	0.21	0.19	0.37	0.21	0.10	0.06	0.04	0.01	
29	0.48	1.45	0.28	0.48	0.23	0.19	0.32	0.19	0.10	0.06		0.01	
30	0.74	1.23	0.25	0.37	0.21	0.19	0.32	0.19	0.10	0.06		0.01	
31		0.80		0.37	0.23		0.32		0.10	0.06		0.01	
TOTAL	20.76	29.77	15.86	49.77	11.28	8.19	29.63	8.85	4.08	2.33	1.31	0.56	182.39 CMSDAY
MEAN	0.69	0.96	0.53	1.61	0.36	0.27	0.96	0.29	0.13	0.08	0.05	0.02	0.50 CMS
MAX	5.05	2.92	1.45	9.52	0.92	0.58	5.76	0.64	0.17	0.09	0.05	0.03	9.52 CMS
MIN	0.17	0.25	0.21	0.21	0.21	0.19	0.19	0.19	0.10	0.06	0.04	0.00	0.00 CMS
RUNOFF	1.794	2.572	1.370	4.300	0.975	0.708	2.560	0.765	0.353	0.201	0.113	0.048	15.758 MCM

MOMENTARY PEAK 24.94 CMS, AT 2.08 M (A.D), AT 19.00 HOURS, ON JUL 20, 1981

RUNOFF YIELD 6.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 315.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — 3-TIME DAILY READINGS AT 07.00, 12.00 AND 18.00 HOURS.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 3 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

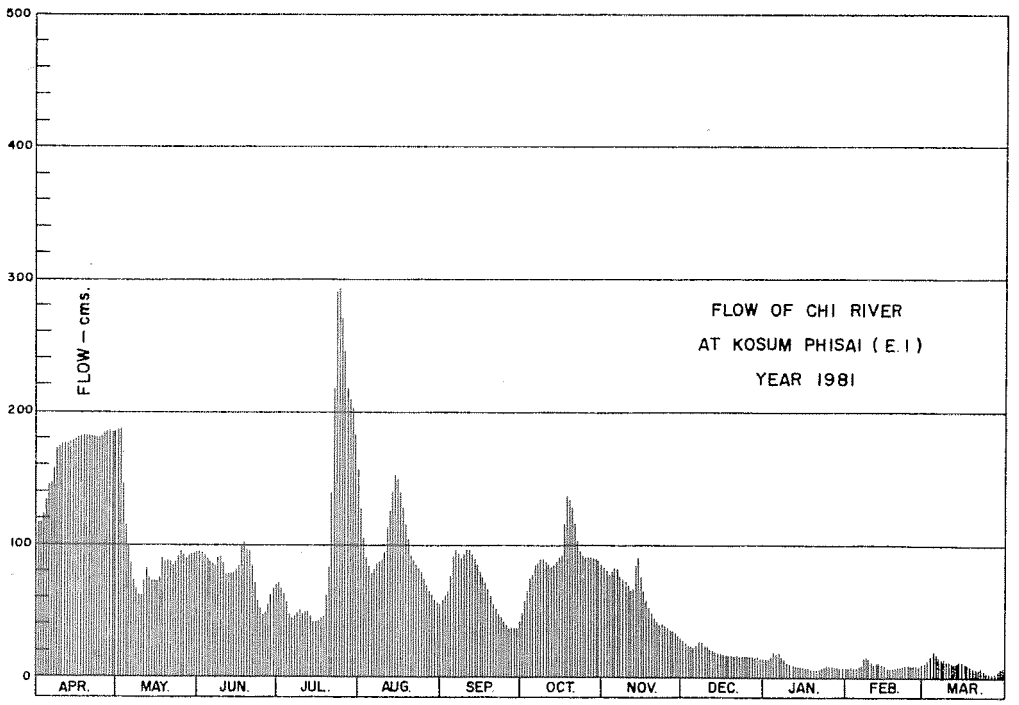
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY NAM PHONG DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	139.08	140.17	138.70	138.29	139.23	138.04	137.87	138.46	137.41	137.09	136.94	137.04	
2	139.08	140.04	138.70	138.22	138.88	138.08	138.03	138.44	137.38	137.11	136.95	137.10	
3	139.22	139.51	138.65	138.13	138.61	138.15	138.21	138.38	137.36	137.16	136.94	137.16	
4	139.44	139.02	138.60	138.03	138.50	138.40	138.31	138.44	137.33	137.26	136.94	137.25	
5	139.56	138.72	138.58	137.85	138.41	138.67	138.39	138.49	137.33	137.21	136.96	137.22	
6	139.56	138.51	138.54	137.79	138.49	138.72	138.52	138.49	137.38	137.20	137.02	137.15	
7	139.73	138.33	138.51	137.80	138.54	138.66	138.54	138.36	137.42	137.10	137.13	137.12	
8	139.96	138.20	138.63	137.84	138.55	138.63	138.60	138.34	137.38	137.07	137.14	137.10	
9	139.99	138.12	138.64	137.89	138.57	138.67	138.61	138.31	137.34	137.01	137.13	137.09	
10	140.01	138.11	138.55	137.85	138.66	138.74	138.55	138.25	137.29	136.97	137.04	137.07	
11	140.02	138.36	138.43	137.88	138.89	138.74	138.52	138.17	137.27	136.97	137.00	137.04	
12	140.03	138.49	138.40	137.88	139.21	138.69	138.49	138.15	137.24	136.97	137.05	137.04	
13	140.04	138.36	138.40	137.78	139.49	138.60	138.52	138.50	137.21	136.95	137.04	137.03	
14	140.06	138.31	138.42	137.71	139.65	138.50	138.56	138.60	137.20	136.94	136.99	137.05	
15	140.07	138.32	138.47	137.70	139.61	138.44	138.60	138.33	137.19	136.91	136.97	137.07	
16	140.08	138.30	138.53	137.73	139.43	138.37	138.66	138.13	137.19	136.90	136.94	137.04	
17	140.12	138.36	138.77	137.76	139.19	138.25	139.17	138.00	137.17	136.90	136.92	137.01	
18	140.10	138.63	138.81	137.80	138.98	138.20	139.40	137.90	137.17	136.89	136.92	136.97	
19	140.11	138.58	138.72	138.08	138.80	138.09	139.31	137.80	137.14	136.88	136.93	136.92	
20	140.11	138.59	138.71	138.54	138.64	138.00	139.17	137.75	137.15	136.88	136.95	136.89	
21	140.12	138.57	138.57	139.67	138.57	137.90	138.99	137.69	137.15	136.88	136.97	136.89	
22	140.10	138.51	138.27	140.98	138.50	137.83	138.79	137.67	137.15	136.92	137.01	136.94	
23	140.09	138.59	138.04	141.65	138.46	137.82	138.69	137.68	137.14	136.95	136.99	136.87	
24	140.08	138.66	137.87	141.67	138.37	137.72	138.63	137.66	137.14	136.99	137.01	136.84	
25	140.11	138.70	137.81	141.31	138.29	137.66	138.61	137.63	137.14	136.97	137.00	136.81	
26	140.14	138.64	137.84	140.88	138.23	137.60	138.63	137.60	137.14	136.94	136.99	136.78	
27	140.15	138.62	137.99	140.61	138.16	137.60	138.63	137.58	137.12	136.94	136.98	136.79	
28	140.15	138.65	138.16	140.51	138.08	137.60	138.59	137.54	137.11	136.94	136.99	136.83	
29	140.14	138.69	138.19	140.38	138.05	137.63	138.60	137.51	137.10	136.94		136.88	
30	140.15	138.69	138.24	140.09	138.00	137.69	138.55	137.46	137.10	136.94		136.90	
31		138.70		139.65	137.98		138.51		137.09	136.94		136.88	
MEAN	139.92	138.65	138.42	138.90	138.68	138.19	138.62	138.04	137.22	136.99	136.99	136.99	
MAX	140.15	140.17	138.81	141.67	139.65	138.74	139.40	138.60	137.42	137.26	137.14	137.25	141.67
MIN	139.08	138.11	137.81	137.70	137.98	137.60	137.87	137.46	137.09	136.88	136.92	136.78	136.78

ANNUAL MAX MOMENTARY GAGE HEIGHT 141.76 M (MSL), AT 1.00 HOURS, ON JUL 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 136.64 M (MSL), RIVER BED 136.28 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	117.30	186.40	94.50	71.95	126.30	58.20	49.50	81.30	27.45	14.10	8.40	12.10	
2	117.30	177.60	94.50	68.10	105.30	60.40	57.65	80.20	26.10	14.90	8.75	14.50	
3	125.70	143.15	91.75	63.15	89.55	64.25	67.55	76.90	25.20	16.90	8.40	16.90	
4	138.90	113.70	89.00	57.65	83.50	78.00	73.05	80.20	23.85	20.90	8.40	20.50	
5	146.40	95.70	87.90	48.50	78.55	92.85	77.45	82.95	23.85	18.90	9.10	19.30	
6	146.40	84.05	85.70	45.50	82.95	95.70	84.60	82.95	26.10	18.50	11.30	16.50	
7	157.45	74.15	84.05	46.00	85.70	92.30	85.70	75.80	27.90	14.50	15.70	15.30	
8	172.40	67.00	90.65	48.00	86.25	90.65	89.00	74.70	26.10	13.30	16.10	14.50	
9	174.35	62.60	91.20	50.50	87.35	92.85	89.55	73.05	24.30	10.90	15.70	14.10	
10	175.65	62.05	86.25	48.50	92.30	96.90	86.25	69.75	22.10	9.45	12.10	13.30	
11	176.30	75.80	79.65	50.00	105.90	96.90	84.60	65.35	21.30	9.45	10.50	12.10	
12	176.95	82.95	78.00	50.00	125.10	93.95	82.95	64.25	20.10	9.45	12.50	12.10	
13	177.60	75.80	78.00	45.00	141.90	89.00	84.60	83.50	18.90	8.75	12.10	11.70	
14	178.90	73.05	79.10	41.50	152.25	83.50	86.80	89.00	18.50	8.40	10.15	12.50	
15	179.55	73.60	81.85	41.00	149.65	80.20	89.00	74.15	18.10	7.35	9.45	13.30	
16	180.20	72.50	85.15	42.50	138.30	76.35	92.30	63.15	18.10	7.00	8.40	12.10	
17	182.90	75.80	98.70	44.00	123.90	69.75	122.70	56.00	17.30	7.00	7.70	10.90	
18	181.50	90.65	101.10	46.00	111.30	67.00	136.50	51.00	17.30	6.65	7.70	9.45	
19	182.20	87.90	95.70	60.40	100.50	60.95	131.10	46.00	16.10	6.30	8.05	7.70	
20	182.20	88.45	95.10	85.70	91.20	56.00	122.70	43.50	16.50	6.30	8.75	6.65	
21	182.90	87.35	87.35	153.55	87.35	51.00	111.90	40.50	16.50	6.30	9.45	6.65	
22	181.50	84.05	70.85	243.10	83.50	47.50	99.90	39.50	16.50	7.70	10.90	8.40	
23	180.85	88.45	58.20	290.75	81.30	47.00	93.95	40.00	16.10	8.75	10.15	5.95	
24	180.20	92.30	49.50	292.25	76.35	42.00	90.65	39.00	16.10	10.15	10.90	4.90	
25	182.20	94.50	46.50	266.20	71.95	39.00	89.55	37.50	16.10	9.45	10.50	3.85	
26	184.30	91.20	48.00	236.10	68.65	36.00	90.65	36.00	16.10	8.40	10.15	2.80	
27	185.00	90.10	55.50	217.20	64.80	36.00	90.65	35.10	15.30	8.40	9.80	3.15	
28	185.00	91.75	64.80	210.20	60.40	36.00	88.45	33.30	14.90	8.40	10.15	4.55	
29	184.30	93.95	66.45	201.10	58.75	37.50	89.00	31.95	14.50	8.40		6.30	
30	185.00	93.95	69.20	180.85	56.00	40.50	86.25	29.70	14.50	8.40		7.00	
31		94.50		152.25	55.00		84.05		14.10	8.40		6.30	
TOTAL	5101.40	2865.00	2384.20	3497.50	2921.80	2008.20	2808.55	1776.25	605.85	321.75	291.25	325.35	24907.06 CMSDAY
MEAN	170.05	92.42	79.47	112.82	94.25	66.94	90.60	59.21	19.54	10.38	10.40	10.50	68.24 CMS
MAX	185.00	186.40	101.10	292.25	152.25	96.90	136.50	89.00	27.90	20.90	16.10	20.50	292.25 CMS
MIN	117.30	62.05	46.50	41.00	55.00	36.00	49.50	29.70	14.10	6.30	7.70	2.80	2.80 CMS
RUNOFF	440.761	247.536	205.995	302.184	252.443	173.508	242.658	153.468	52.345	27.799	25.164	28.110	2151.970 MCM

MOMENTARY PEAK 299.00 CMS, AT 141.76 M (MSL), AT 1.00 HOURS, ON JUL 24, 1981

RUNOFF YIELD 2.29 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 10.04 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

CHI RIVER AT YASOTHON, YASOTHON (E.2)

LOCATION — LAT. 15°-47'-06" N., LONG. 104°-08'-36" E., ON LEFT BANK ABOUT 1.5 KILOMETERS SOUTH OF AMPHOE MUANG OFFICE, YASOTHON.

DRAINAGE AREA — 47,391 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +117.00 M. (M.S.L.)

BENCH MARK — B.M.-ARMY SURVEY DEPARTMENT

LOCATION — ABOUT 15 METERS EAST OF THE POST OFFICE.

ELEVATION — +126.972 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 — 1951 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1951

RATED BY FLOAT — -

RATED BY CURRENT METER — 1951

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

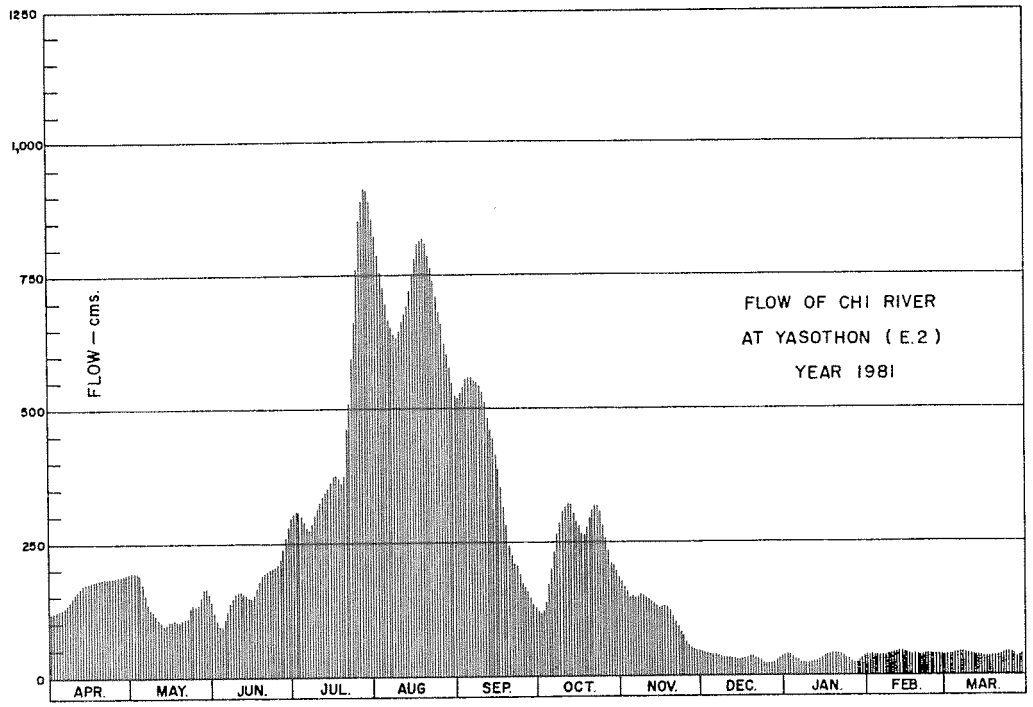
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 194 DISCHARGE MEASUREMENTS MADE IN 1951. FLOW REGULATED BY NAM PHONG DAM AND LAMPAO DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	120.51	121.34	120.46	122.45	125.64	124.13	120.50	121.15	119.42	119.31	119.26	119.29	
2	120.54	121.35	120.27	122.46	125.52	124.18	120.48	121.05	119.41	119.33	119.29	119.29	
3	120.56	121.34	120.20	122.45	125.38	124.27	120.55	120.96	119.37	119.29	119.30	119.30	
4	120.57	121.28	120.17	122.37	125.25	124.35	120.92	120.82	119.35	119.19	119.30	119.32	
5	120.58	121.14	120.32	122.26	125.11	124.36	121.24	120.85	119.32	119.13	119.30	119.34	
6	120.60	120.92	120.55	122.17	124.99	124.36	121.57	120.83	119.29	119.05	119.30	119.36	
7	120.68	120.66	120.70	122.14	124.91	124.35	121.89	120.83	119.26	118.95	119.31	119.38	
8	120.77	120.59	120.84	122.23	124.84	124.32	122.13	120.85	119.23	118.94	119.33	119.38	
9	120.87	120.52	120.91	122.39	124.79	124.26	122.34	120.84	119.23	118.93	119.37	119.38	
10	120.94	120.42	120.93	122.54	124.91	124.17	122.49	120.81	119.23	118.92	119.40	119.36	
11	121.00	120.34	120.94	122.66	124.97	124.05	122.56	120.76	119.22	118.89	119.42	119.34	
12	121.05	120.25	120.91	122.74	125.05	123.82	122.59	120.72	119.20	118.94	119.43	119.32	
13	121.10	120.20	120.86	122.80	125.16	123.64	122.54	120.68	119.18	118.98	119.45	119.30	
14	121.13	120.23	120.82	122.88	125.27	123.52	122.42	120.64	119.15	119.17	119.45	119.28	
15	121.15	120.30	120.80	122.98	125.38	123.28	122.30	120.59	119.13	119.23	119.44	119.27	
16	121.18	120.31	120.88	123.03	125.51	123.02	122.21	120.61	119.14	119.26	119.42	119.25	
17	121.19	120.34	121.03	123.04	125.59	122.71	122.05	120.64	119.18	119.30	119.40	119.25	
18	121.20	120.31	121.17	123.00	125.60	122.39	122.04	120.59	119.25	119.31	119.37	119.25	
19	121.20	120.28	121.30	122.93	125.62	122.13	122.18	120.50	119.28	119.31	119.36	119.25	
20	121.20	120.32	121.37	122.89	125.59	121.86	122.38	120.39	119.26	119.31	119.33	119.25	
21	121.23	120.35	121.40	123.58	125.51	121.66	122.52	120.28	119.23	119.30	119.33	119.27	
22	121.24	120.35	121.41	124.09	125.41	121.49	122.57	120.15	119.18	119.30	119.33	119.29	
23	121.25	120.61	121.44	124.54	125.30	121.49	122.54	119.97	119.05	119.30	119.36	119.31	
24	121.26	120.68	121.46	124.93	125.19	121.21	122.39	119.79	118.99	119.22	119.36	119.37	
25	121.27	120.63	121.48	125.53	125.04	121.11	122.20	119.71	118.97	119.17	119.35	119.39	
26	121.27	120.67	121.60	125.74	124.94	121.03	121.98	119.64	118.95	119.06	119.33	119.36	
27	121.26	120.86	121.81	125.84	124.67	120.88	121.77	119.60	118.93	118.97	119.31	119.35	
28	121.27	120.99	122.03	125.89	124.61	120.77	121.60	119.55	118.96	118.91	119.30	119.22	
29	121.29	121.00	122.21	125.88	124.43	120.66	121.46	119.51	119.06	119.08		119.24	
30	121.34	120.94	122.35	125.82	124.27	120.57	121.35	119.47	119.15	119.16		119.26	
31		120.69		125.72	124.14		121.24		119.23	119.24		119.32	
MEAN	121.02	120.65	121.89	123.55	125.12	122.80	121.90	120.43	119.19	119.14	119.35	119.31	
MAX	121.34	121.35	122.35	125.89	125.64	124.36	122.59	121.15	119.42	119.33	119.45	119.39	125.89
MIN	120.51	120.20	120.17	122.14	124.14	120.57	120.48	119.47	118.93	118.89	119.26	119.22	118.89

ANNUAL MAX MOMENTARY GAGE HEIGHT 125.90 M (MSL), AT 18.00 HOURS, ON JUL 28, 1981
ZERO GAGE AT BOTTOM ELEVATION 117.00 M (MSL), RIVER BED 117.80 M (MSL)
LEFT BANK ELEVATION 126.14 M (MSL)
RIGHT BANK ELEVATION 126.20 M (MSL), DRAINAGE AREA 47391. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	120.8	193.6	116.8	307.5	824.0	521.5	120.0	176.5	44.2	38.7	36.3	37.7	
2	123.2	194.5	101.6	308.6	789.6	529.0	118.4	167.5	43.6	39.6	37.7	37.7	
3	124.8	193.6	96.0	307.5	750.8	542.5	124.0	159.4	41.6	37.7	38.2	38.2	
4	125.6	188.2	93.9	298.7	719.0	554.5	155.8	146.8	40.6	33.1	38.2	39.2	
5	126.4	175.6	105.6	286.6	688.2	556.0	184.6	149.5	39.2	30.5	38.2	40.1	
6	128.0	155.8	124.0	276.7	664.1	556.0	216.0	147.7	37.7	27.2	38.2	41.1	
7	134.4	132.8	136.0	273.4	648.9	554.5	248.0	147.7	36.3	23.4	38.7	42.0	
8	142.3	127.2	148.6	283.3	636.2	550.0	272.3	149.5	34.9	23.1	39.6	42.0	
9	151.3	121.6	154.9	300.9	627.3	541.0	295.4	148.6	34.9	22.7	41.6	42.0	
10	157.6	113.6	156.7	317.4	648.9	527.5	311.9	145.9	34.9	22.3	43.0	41.1	
11	163.0	107.2	157.6	330.6	660.3	509.5	319.6	141.4	34.4	21.2	44.2	40.1	
12	167.5	100.0	154.9	339.8	676.0	476.8	322.9	137.8	33.5	23.1	44.8	39.2	
13	172.0	96.0	150.4	347.0	699.2	452.2	317.4	134.4	32.6	24.6	46.0	38.2	
14	174.7	98.4	146.8	356.6	723.4	436.6	304.2	131.2	31.3	32.2	46.0	37.3	
15	176.5	104.0	145.0	368.6	750.8	405.4	291.0	127.2	30.5	34.9	45.4	36.8	
16	179.2	104.8	152.2	374.6	786.8	373.4	281.1	128.8	30.9	36.3	44.2	35.9	
17	180.1	107.2	165.7	375.8	809.2	336.2	264.0	131.2	32.6	38.2	43.0	35.9	
18	181.0	104.8	178.3	371.0	812.0	300.9	263.0	127.2	35.9	38.7	41.6	35.9	
19	181.0	102.4	190.0	362.6	818.0	272.3	277.8	120.0	37.3	38.7	41.1	35.9	
20	181.0	105.6	196.3	357.8	809.2	245.0	299.8	111.2	36.3	38.7	39.6	35.9	
21	183.7	108.0	199.0	444.4	786.8	225.0	315.2	102.4	34.9	38.2	39.6	36.8	
22	184.6	108.0	200.0	515.5	758.8	208.0	320.7	92.5	30.1	38.2	39.6	37.7	
23	185.5	128.8	203.0	584.8	730.0	208.0	317.4	79.9	27.2	38.2	41.1	38.7	
24	186.4	134.4	205.0	652.7	705.8	181.9	300.9	67.3	24.9	34.4	41.1	41.6	
25	187.3	130.4	207.0	792.4	674.0	172.9	280.0	61.7	24.2	32.2	40.6	42.5	
26	187.3	133.6	219.0	855.6	654.6	165.7	257.0	57.4	23.4	27.6	39.6	41.1	
27	186.4	150.4	240.0	892.0	606.9	152.2	236.0	55.0	22.7	24.2	38.7	40.6	
28	187.3	162.1	262.0	912.0	596.7	142.3	219.0	52.0	23.8	22.0	38.2	34.4	
29	189.1	163.0	281.1	908.0	566.8	132.8	205.0	49.6	27.6	28.4		35.4	
30	193.6	157.6	296.5	884.0	542.5	125.6	194.5	47.2	31.3	31.8		36.3	
31		135.2		848.8	523.0		184.6		34.9	35.4		39.2	
TOTAL	4961.6	4138.4	5183.9	14835.2	21687.8	10955.2	7817.5	3494.5	1028.2	975.5	1144.1	1196.5	77418.3 CMSDAY
MEAN	165.4	133.5	172.8	478.6	699.6	365.2	252.2	116.5	33.2	31.5	40.9	38.6	212.1 CMS
MAX	193.6	194.5	296.5	912.0	824.0	556.0	322.9	176.5	44.2	39.6	46.0	42.5	912.0 CMS
MIN	120.8	96.0	93.9	273.4	523.0	125.6	118.4	47.2	22.7	21.2	36.3	34.4	21.2 CMS
RUNOFF	428.68	357.56	447.89	1281.76	1873.82	946.53	675.43	301.92	88.84	84.28	98.85	103.38	6688.94 MCM

MOMENTARY PEAK 916.00 CMS, AT 125.90 M (MSL), AT 18.00 HOURS, ON JUL 28, 1981

RUNOFF YIELD 4.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.33 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +186.07 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE CAMP OF E.5 STATION.

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 — 1967-1979

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1979

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 275 DISCHARGE MEASUREMENTS MADE IN 1979.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

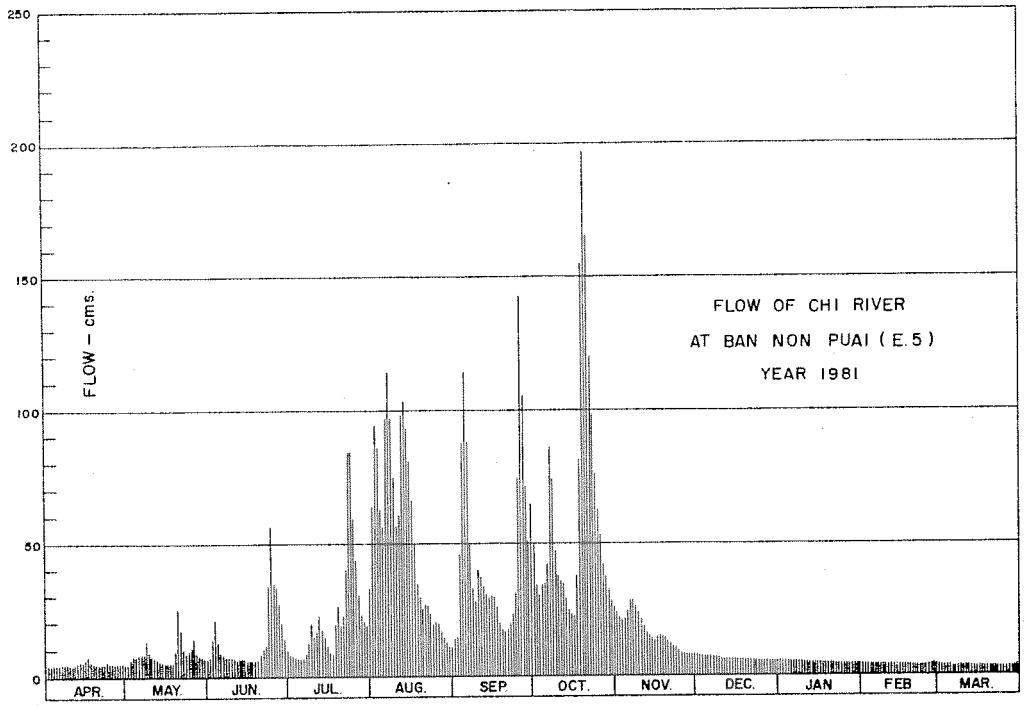
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	186.73	186.86	187.28	187.56	190.25	187.86	189.37	188.35	187.44	187.00	186.81	186.71	
2	186.75	187.19	187.87	187.42	191.04	187.87	188.93	188.25	187.39	186.99	186.81	186.72	
3	186.81	187.41	188.24	187.34	190.74	189.16	188.71	188.17	187.35	186.99	186.81	186.71	
4	186.79	187.30	187.71	187.27	189.83	191.26	188.88	188.20	187.33	186.99	186.81	186.73	
5	186.79	187.45	187.47	187.24	189.69	191.74	188.89	188.36	187.34	186.99	186.81	186.71	
6	186.82	187.56	187.49	187.24	190.96	190.67	189.09	188.59	187.31	186.98	186.80	186.66	
7	186.83	187.36	187.34	187.28	191.72	189.48	190.75	188.58	187.29	186.97	186.80	186.66	
8	186.82	187.82	187.38	187.77	191.02	188.79	190.24	188.49	187.27	186.96	186.79	186.66	
9	186.80	187.52	187.37	188.15	190.20	188.47	189.25	188.31	187.24	186.96	186.79	186.65	
10	186.75	187.33	187.25	187.91	189.68	189.13	189.02	188.19	187.22	186.95	186.79	186.64	
11	186.76	187.27	187.15	187.97	189.81	188.95	188.92	188.08	187.21	186.93	186.79	186.66	
12	186.94	187.14	187.11	188.30	191.20	188.84	188.87	187.99	187.19	186.93	186.79	186.64	
13	187.08	187.07	187.28	188.02	191.36	188.69	188.56	187.92	187.18	186.94	186.79	186.62	
14	186.91	187.05	187.23	187.87	190.85	188.60	188.37	187.86	187.17	186.93	186.78	186.63	
15	187.11	187.02	187.18	187.67	190.36	188.67	188.33	187.84	187.16	186.91	186.77	186.64	
16	187.32	186.99	187.16	187.53	189.93	188.62	188.28	187.87	187.14	186.91	186.77	186.65	
17	187.04	186.96	187.13	187.51	189.33	188.41	189.14	187.93	187.13	186.89	186.77	186.68	
18	186.92	186.91	187.08	188.09	188.92	188.15	191.03	187.90	187.12	186.88	186.75	186.65	
19	186.86	187.65	187.20	188.47	188.62	188.04	193.00	187.87	187.10	186.87	186.70	186.66	
20	186.82	188.41	187.46	188.11	188.41	188.02	193.84	187.83	187.09	186.87	186.71	186.65	
21	186.81	187.91	187.69	188.23	188.51	188.01	193.03	187.78	187.09	186.85	186.70	186.66	
22	186.87	187.63	187.67	189.10	188.47	188.17	191.55	187.74	187.09	186.85	186.70	186.67	
23	186.96	187.51	189.02	190.69	188.28	188.32	190.79	187.69	187.07	186.87	186.70	186.67	
24	186.95	187.60	189.69	190.63	188.13	188.79	190.25	187.62	187.05	186.87	186.68	186.67	
25	186.87	187.68	188.89	189.47	188.19	191.22	189.78	187.59	187.05	186.85	186.69	186.64	
26	186.83	187.87	188.84	189.06	188.10	192.53	189.39	187.56	187.04	186.83	186.70	186.66	
27	186.82	187.57	188.49	188.73	187.96	191.00	189.13	187.53	187.04	186.84	186.71	186.67	
28	186.87	187.37	188.12	188.33	187.86	189.73	188.91	187.53	187.04	186.84	186.70	186.64	
29	186.90	187.39	187.82	189.16	187.78	189.35	188.72	187.52	187.03	186.82		186.64	
30	186.86	187.24	187.69	188.10	187.72	189.99	188.58	187.50	187.01	186.83		186.69	
31		187.13		188.97	187.71		188.46		187.00	186.82		187.49	
MEAN	186.88	187.39	187.71	188.20	189.44	189.22	189.68	187.95	187.17	186.91	186.76	186.69	
MAX	187.32	188.41	189.69	190.69	191.72	192.53	193.84	188.59	187.44	187.00	186.81	187.49	193.84
MIN	186.73	186.86	187.08	187.24	187.71	187.86	188.28	187.50	187.00	186.82	186.69	186.62	186.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 193.92 M (MSL), AT 11.00 HOURS, ON OCT 20, 1981

ZERO GAGE AT BOTTOM ELEVATION 186.07 M (MSL), RIVER BED 186.21 M (MSL)

LEFT BANK ELEVATION 197.25 M (MSL)

RIGHT BANK ELEVATION 197.58 M (MSL), DRAINAGE AREA 4254 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.11	4.84	7.20	8.77	72.00	14.20	47.36	24.00	8.10	5.62	4.56	3.99	
2	4.22	6.69	14.40	7.99	94.12	14.40	35.60	22.00	7.82	5.57	4.56	4.05	
3	4.56	7.93	21.80	7.54	85.72	41.48	31.20	20.40	7.59	5.57	4.56	3.99	
4	4.44	7.31	11.20	7.14	60.24	100.28	34.60	21.00	7.48	5.57	4.56	4.11	
5	4.44	8.16	8.27	6.97	56.32	113.72	34.80	24.60	7.54	5.57	4.56	3.99	
6	4.61	8.77	8.38	6.97	91.88	83.76	39.52	28.80	7.37	5.51	4.50	3.71	
7	4.67	7.65	7.54	7.20	113.16	50.44	86.00	28.60	7.26	5.46	4.50	3.71	
8	4.61	13.40	7.76	12.40	93.56	32.80	71.72	26.80	7.14	5.40	4.44	3.71	
9	4.50	8.55	7.71	20.00	70.60	26.40	44.00	23.20	6.97	5.40	4.44	3.66	
10	4.22	7.48	7.03	15.20	56.04	40.64	37.56	20.80	6.86	5.34	4.44	3.60	
11	4.27	7.14	6.47	16.40	59.68	36.00	35.40	18.60	6.81	5.23	4.44	3.71	
12	5.29	6.41	6.24	23.00	98.60	33.80	34.40	16.80	6.69	5.23	4.44	3.60	
13	6.07	6.02	7.20	17.40	103.08	30.80	28.20	15.40	6.64	5.29	4.44	3.49	
14	5.12	5.91	6.92	14.40	88.80	29.00	24.40	14.20	6.58	5.23	4.39	3.54	
15	6.24	5.74	6.64	10.40	75.08	30.40	23.60	13.80	6.52	5.12	4.33	3.60	
16	7.42	5.57	6.52	8.61	63.04	29.40	22.60	14.40	6.41	5.12	4.33	3.66	
17	5.85	5.40	6.36	8.49	46.24	25.20	40.92	15.60	6.36	5.01	4.33	3.82	
18	5.17	5.12	6.07	18.80	35.40	20.00	93.84	15.00	6.30	4.95	4.22	3.66	
19	4.84	10.00	6.75	26.40	29.40	17.80	162.05	14.40	6.19	4.89	3.94	3.71	
20	4.61	25.20	8.21	19.20	25.20	17.40	196.54	13.60	6.13	4.89	3.99	3.66	
21	4.56	15.20	10.80	21.60	27.20	17.20	163.28	12.60	6.13	4.78	3.94	3.71	
22	4.89	9.60	10.40	39.80	26.40	20.40	108.40	11.80	6.13	4.78	3.94	3.77	
23	5.40	8.49	37.56	84.32	22.60	23.40	87.12	10.80	6.02	4.89	3.94	3.77	
24	5.34	9.00	56.32	82.64	19.60	32.80	72.00	9.40	5.91	4.89	3.82	3.77	
25	4.89	10.60	34.80	50.16	20.80	99.16	58.84	8.94	5.91	4.78	3.88	3.60	
26	4.67	14.40	33.80	38.68	19.00	142.76	47.92	8.77	5.85	4.67	3.94	3.71	
27	4.61	8.83	26.80	31.60	16.20	93.00	40.64	8.61	5.85	4.72	3.99	3.77	
28	4.89	7.71	19.40	23.60	14.20	57.44	35.20	8.61	5.85	4.72	3.94	3.60	
29	5.06	7.82	13.40	20.20	12.60	46.80	31.40	8.55	5.79	4.61		3.60	
30	4.84	6.97	10.80	19.00	11.40	64.72	28.60	8.44	5.68	4.67		3.88	
31		6.36		36.40	11.20		26.20		5.62	4.61		8.38	
TOTAL	148.41	268.27	422.75	711.28	1619.36	1385.60	1823.91	488.52	203.50	158.09	119.36	120.53	7469.57 CMSDAY
MEAN	4.95	8.65	14.09	22.94	52.24	46.19	58.84	16.28	6.56	5.10	4.26	3.89	20.46 CMS
MAX	7.42	25.20	56.32	84.32	113.16	142.76	196.54	28.80	8.10	5.62	4.56	8.38	196.54 CMS
MIN	4.11	4.84	6.07	6.97	11.20	14.20	22.60	8.44	5.62	4.61	3.82	3.49	3.49 CMS
RUNOFF	12.823	23.178	36.526	61.455	139.912	119.716	157.586	42.208	17.582	13.659	10.313	10.414	645.371 MCM

MOMENTARY PEAK 200.00 CMS, AT 193.92 M (MSL), AT 11.00 HOURS, ON OCT 20, 1981

RUNOFF YIELD 4.81 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 47.01 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

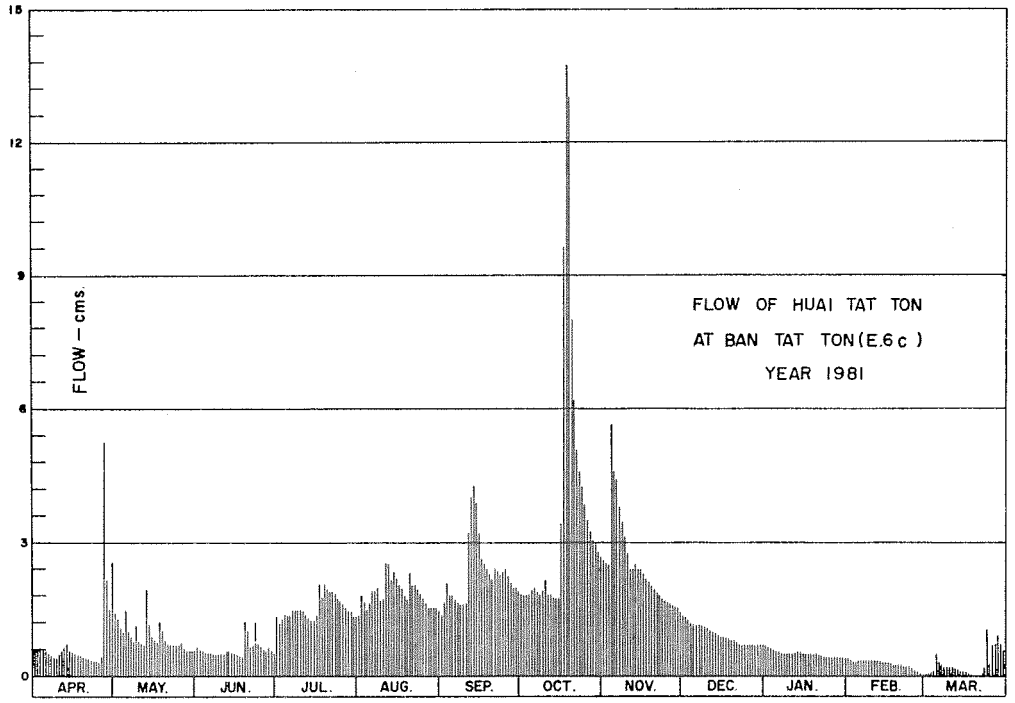
HUAI TAT TON AT BAN TAT TON, CHAIYAPHUM (E.6C)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 168 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	1.10	0.96	0.93	0.94	0.94	1.01	1.09	0.93	0.83	0.78	0.71	
2	0.96	1.08	0.95	0.91	1.00	1.01	1.00	1.08	0.93	0.82	0.78	0.71	
3	0.97	1.05	0.94	0.92	0.98	1.03	1.00	1.08	0.92	0.82	0.77	0.72	
4	0.96	1.03	0.92	0.94	0.95	1.00	1.00	1.40	0.91	0.81	0.76	0.72	
5	0.94	1.05	0.92	0.94	0.99	1.00	1.01	1.29	0.90	0.81	0.77	0.80	
6	0.93	1.11	0.91	0.94	1.01	0.99	1.02	1.28	0.90	0.81	0.77	0.77	
7	0.92	1.04	0.91	0.95	1.01	0.98	1.01	1.22	0.90	0.80	0.77	0.75	
8	0.91	1.02	0.91	0.95	1.02	0.97	1.00	1.18	0.90	0.80	0.77	0.74	
9	0.90	1.01	0.91	0.95	0.99	0.97	1.01	1.14	0.89	0.80	0.77	0.74	
10	0.92	1.06	0.90	0.95	0.99	0.97	1.04	1.10	0.89	0.80	0.77	0.74	
11	0.95	1.01	0.90	0.95	1.08	1.15	1.00	1.07	0.88	0.80	0.77	0.74	
12	0.96	1.00	0.90	0.94	1.08	1.24	1.00	1.07	0.88	0.80	0.77	0.74	
13	0.99	0.98	0.92	0.92	1.04	1.27	0.99	1.08	0.87	0.81	0.77	0.73	
14	0.95	1.16	0.91	0.92	1.06	1.22	0.99	1.07	0.87	0.81	0.76	0.72	
15	0.94	1.05	0.91	0.92	1.05	1.16	0.98	1.07	0.86	0.80	0.76	0.72	
16	0.93	1.02	0.90	0.94	1.03	1.10	1.24	1.06	0.86	0.80	0.76	0.72	
17	0.92	1.01	0.89	1.03	1.02	1.08	1.81	1.05	0.86	0.80	0.76	0.71	
18	0.92	1.00	0.89	0.99	1.00	1.07	2.10	1.04	0.85	0.80	0.75	0.71	
19	0.92	1.07	1.07	1.03	0.98	1.06	2.02	1.03	0.85	0.80	0.75	0.70	
20	0.91	1.04	1.04	1.02	1.06	1.04	1.56	1.02	0.85	0.80	0.75	0.70	
21	0.90	1.01	0.97	1.01	1.03	1.07	1.43	1.01	0.84	0.79	0.75	0.69	
22	0.89	0.99	0.95	1.01	1.03	1.06	1.33	1.00	0.84	0.79	0.75	0.69	
23	0.89	0.98	1.07	1.01	1.02	1.05	1.31	0.99	0.83	0.78	0.74	0.74	
24	0.88	0.98	0.99	0.99	1.00	1.06	1.26	0.98	0.83	0.78	0.74	0.89	
25	0.86	0.98	0.97	0.98	0.99	1.07	1.21	0.98	0.83	0.78	0.74	0.75	
26	0.90	0.99	0.96	0.97	0.98	1.05	1.18	0.97	0.83	0.78	0.72	0.83	
27	1.48	0.97	0.94	0.96	0.96	1.03	1.16	0.97	0.83	0.78	0.72	0.83	
28	1.15	0.96	0.97	0.95	0.96	1.02	1.14	0.96	0.83	0.78	0.71	0.87	
29	1.10	0.95	0.95	0.95	0.96	1.02	1.12	0.96	0.83	0.78		0.84	
30	1.24	0.95	0.93	0.94	0.96	1.01	1.11	0.94	0.83	0.78		0.81	
31		0.95		0.94	0.95		1.10		0.83	0.78		0.81	
MEAN	0.97	1.02	0.94	0.96	1.00	1.06	1.20	1.07	0.87	0.80	0.76	0.75	
MAX	1.48	1.16	1.07	1.03	1.08	1.27	2.10	1.40	0.93	0.83	0.78	0.89	2.10
MIN	0.86	0.95	0.89	0.91	0.94	0.94	0.98	0.94	0.83	0.78	0.71	0.69	0.69

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.27 M (A.D), AT 18.30 HOURS, ON OCT 18, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.45 M (A.D)
LEFT BANK ELEVATION 7.57 M (A.D)
RIGHT BANK ELEVATION 6.93 M (A.D), DRAINAGE AREA 300 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.62	1.41	0.62	1.31	1.38	1.38	1.88	2.56	1.31	0.68	0.40	0.05	
2	0.62	1.28	0.58	1.17	1.80	1.88	1.80	2.48	1.31	0.62	0.40	0.05	
3	0.65	1.08	0.54	1.24	1.66	2.05	1.80	2.48	1.24	0.62	0.35	0.10	
4	0.62	0.95	0.47	1.38	1.45	1.80	1.80	5.65	1.17	0.56	0.30	0.10	
5	0.54	1.08	0.47	1.38	1.73	1.80	1.88	4.45	1.10	0.56	0.35	0.50	
6	0.51	1.49	0.44	1.38	1.88	1.73	1.97	4.36	1.10	0.56	0.35	0.35	
7	0.47	1.02	0.44	1.45	1.88	1.66	1.88	3.79	1.10	0.50	0.35	0.25	
8	0.44	0.89	0.44	1.45	1.97	1.59	1.80	3.41	1.10	0.50	0.35	0.20	
9	0.40	0.82	0.44	1.45	1.73	1.59	1.88	3.03	1.04	0.50	0.35	0.20	
10	0.47	1.15	0.40	1.45	1.73	1.59	2.14	2.65	1.04	0.50	0.35	0.20	
11	0.58	0.82	0.40	1.45	2.48	3.12	1.80	2.39	0.98	0.50	0.35	0.20	
12	0.62	0.76	0.40	1.38	2.48	3.98	1.80	2.39	0.98	0.50	0.35	0.20	
13	0.72	0.69	0.47	1.24	2.14	4.26	1.73	2.48	0.92	0.56	0.35	0.15	
14	0.58	1.91	0.44	1.24	2.31	3.79	1.73	2.39	0.92	0.56	0.30	0.10	
15	0.54	1.08	0.44	1.24	2.22	3.22	1.66	2.39	0.86	0.50	0.30	0.10	
16	0.51	0.89	0.40	1.38	2.05	2.65	3.98	2.31	0.86	0.50	0.30	0.10	
17	0.47	0.82	0.37	2.05	1.97	2.48	10.31	2.22	0.86	0.50	0.30	0.05	
18	0.47	0.76	0.37	1.73	1.80	2.39	13.75	2.14	0.80	0.50	0.25	0.05	
19	0.47	1.21	1.21	2.05	1.66	2.31	12.75	2.05	0.80	0.50	0.25	0.00	
20	0.44	1.02	1.02	1.97	2.31	2.14	7.44	1.97	0.80	0.50	0.25	0.00	
21	0.40	0.82	0.65	1.88	2.05	2.39	5.98	1.88	0.74	0.45	0.25	0.00	
22	0.37	0.72	0.58	1.88	2.05	2.31	4.88	1.80	0.74	0.45	0.25	0.00	
23	0.37	0.69	1.21	1.88	1.97	2.22	4.66	1.73	0.68	0.40	0.20	0.20	
24	0.35	0.69	0.72	1.73	1.80	2.31	4.17	1.66	0.68	0.40	0.20	1.04	
25	0.30	0.69	0.65	1.66	1.73	2.39	3.69	1.66	0.68	0.40	0.20	0.25	
26	0.40	0.72	0.62	1.59	1.66	2.22	3.41	1.59	0.68	0.40	0.10	0.68	
27	5.25	0.65	0.54	1.52	1.52	2.05	3.22	1.59	0.68	0.40	0.10	0.68	
28	1.83	0.62	0.65	1.45	1.52	1.97	3.03	1.52	0.68	0.40	0.05	0.92	
29	1.41	0.58	0.58	1.45	1.52	1.97	2.84	1.52	0.68	0.40		0.74	
30	2.59	0.58	0.51	1.38	1.52	1.88	2.74	1.38	0.68	0.40		0.56	
31		0.58		1.38	1.45		2.65		0.68	0.40		0.56	
TOTAL	24.01	28.47	17.07	47.19	57.42	69.12	117.05	73.92	27.89	15.22	7.90	8.58	493.84 CMSDAY
MEAN	0.80	0.92	0.57	1.52	1.85	2.30	3.78	2.46	0.90	0.49	0.28	0.28	1.35 CMS
MAX	5.25	1.91	1.21	2.05	2.48	4.26	13.75	5.65	1.31	0.68	0.40	1.04	13.75 CMS
MIN	0.30	0.58	0.37	1.17	1.38	1.38	1.66	1.38	0.68	0.40	0.05	0.00	0.00 CMS
RUNOFF	2.074	2.460	1.475	4.077	4.961	5.972	10.113	6.387	2.410	1.315	0.683	0.741	42.668 MCM

MOMENTARY PEAK 15.88 CMS, AT 2.27 M (A.D), AT 18.30 HOURS, ON OCT 18, 1981

RUNOFF YIELD 4.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

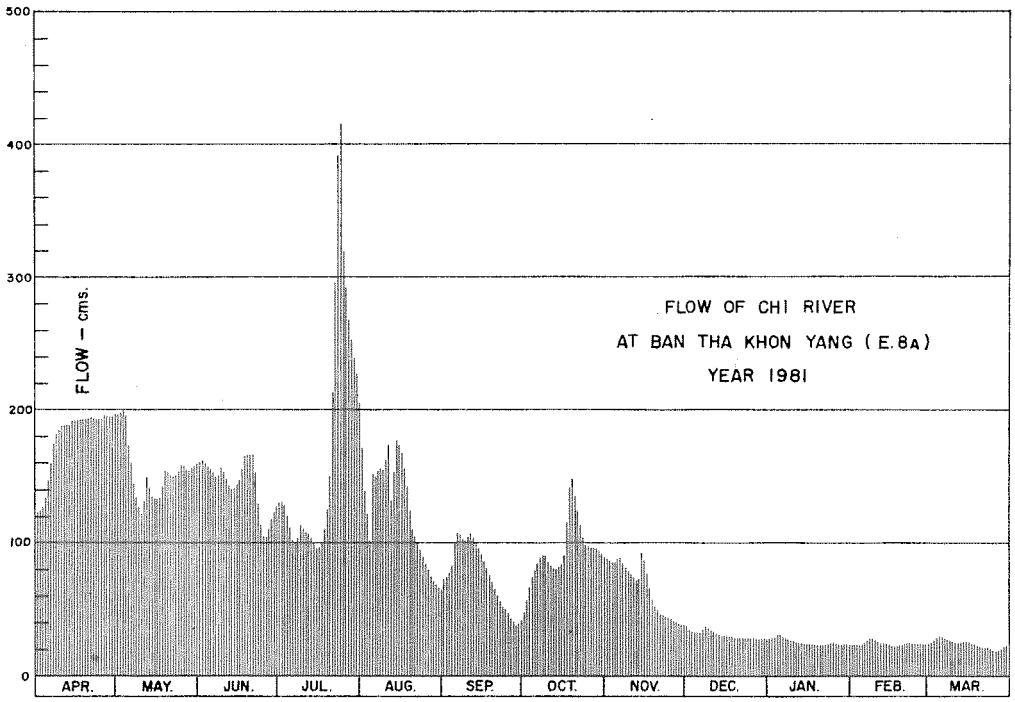
CHI RIVER AT BAN THA KHON YANG, MAHA SARAKHAM (E.8A)

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 AT	+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
RATED BY FLOAT	-
RATED BY CURRENT METER	1955-1957, 1965-1976
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 101 DISCHARGE MEASUREMENTS MADE DURING 1969-1976. FLOW REGULATED BY NAM PHONG DAM AT ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.12	137.31	136.73	136.23	136.81	135.16	134.59	135.46	134.36	134.15	134.00	134.02	
2	136.12	137.33	136.74	136.23	136.39	135.16	134.81	135.44	134.30	134.15	134.02	134.05	
3	136.17	137.35	136.71	136.18	136.01	135.24	135.00	135.40	134.29	134.17	134.01	134.09	
4	136.34	137.29	136.67	136.04	135.73	135.38	135.17	135.38	134.27	134.20	134.01	134.16	
5	136.58	136.91	136.62	135.88	136.59	135.71	135.27	135.45	134.27	134.22	134.01	134.19	
6	136.76	136.64	136.58	135.72	136.55	135.84	135.38	135.47	134.27	134.17	134.05	134.16	
7	136.93	136.40	136.55	135.70	136.62	135.82	135.46	135.41	134.29	134.14	134.09	134.14	
8	137.06	136.25	136.56	135.78	136.65	135.75	135.50	135.32	134.36	134.14	134.14	134.10	
9	137.12	136.15	136.68	135.95	136.63	135.72	135.51	135.29	134.30	134.09	134.14	134.10	
10	137.15	136.07	136.61	135.90	136.75	135.79	135.44	135.23	134.29	134.06	134.11	134.08	
11	137.16	136.22	136.49	135.86	136.94	135.83	135.37	135.18	134.27	134.05	134.05	134.06	
12	137.18	136.55	136.45	135.84	136.25	135.78	135.32	135.12	134.23	134.05	134.05	134.04	
13	137.19	136.36	136.40	135.75	136.64	135.71	135.30	135.17	134.20	134.05	134.06	134.05	
14	137.21	136.31	136.40	135.66	136.99	135.60	135.32	135.55	134.19	134.04	134.04	134.05	
15	137.21	136.28	136.45	135.61	136.94	135.49	135.35	135.42	134.17	134.04	134.02	134.07	
16	137.22	136.28	136.52	135.63	136.87	135.42	135.54	135.17	134.18	134.03	133.99	134.07	
17	137.23	136.28	136.66	135.71	136.64	135.31	135.94	135.01	134.17	134.02	133.98	134.05	
18	137.24	136.46	136.82	135.99	136.38	135.21	136.41	134.85	134.15	134.00	133.97	134.02	
19	137.25	136.62	136.82	136.10	136.10	135.12	136.46	134.73	134.16	133.99	133.98	133.99	
20	137.25	136.59	136.83	136.57	135.89	135.00	136.35	134.66	134.16	134.00	133.99	133.95	
21	137.28	136.58	136.82	137.67	135.77	134.90	136.17	134.60	134.15	133.99	134.01	133.92	
22	137.26	136.53	136.44	139.07	135.63	134.79	135.96	134.55	134.15	133.99	134.04	133.95	
23	137.25	136.56	136.13	139.98	135.57	134.74	135.79	134.54	134.15	134.00	134.05	133.96	
24	137.25	136.63	135.90	140.26	135.48	134.69	135.67	134.54	134.15	134.00	134.04	133.94	
25	137.25	136.70	135.78	139.15	135.35	134.58	135.64	134.50	134.15	134.04	134.04	133.89	
26	137.29	136.69	135.78	138.77	135.31	134.50	135.63	134.46	134.15	134.02	134.02	133.86	
27	137.29	136.63	135.89	138.35	135.21	134.43	135.63	134.45	134.15	134.01	134.02	133.85	
28	137.29	136.65	136.03	138.17	135.12	134.39	135.61	134.42	134.14	133.99	134.01	133.88	
29	137.30	136.66	136.13	137.99	135.06	134.41	135.59	134.41	134.14	134.00		133.91	
30	137.31	136.68	136.18	137.78	135.02	134.45	135.56	134.40	134.13	134.01		133.95	
31		136.71		137.31	134.97		135.49		134.13	134.01		133.95	
MEAN	137.04	136.60	136.45	136.87	136.09	135.20	135.56	134.99	134.21	134.06	134.03	134.02	
MAX	137.31	137.35	136.83	140.26	136.99	135.84	136.46	135.55	134.36	134.22	134.14	134.19	140.26
MIN	136.12	136.07	135.78	135.61	134.97	134.39	134.59	134.40	134.13	133.99	133.97	133.85	133.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 140.26 M (MSL), AT 12.00 HOURS, ON JUL 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 133.21 M (MSL), RIVER BED 133.44 M (MSL)
LEFT BANK ELEVATION 142.30 M (MSL)
RIGHT BANK ELEVATION 143.99 M (MSL), DRAINAGE AREA 30764 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	123.46	196.26	160.78	130.19	165.67	73.00	46.60	88.00	37.40	29.00	24.00	24.60	
2	123.46	197.48	161.39	130.19	139.98	73.00	55.50	87.00	35.00	29.00	24.60	25.50	
3	126.52	198.71	159.55	127.13	116.73	77.00	65.00	85.00	34.60	29.80	24.30	26.70	
4	136.92	195.04	157.11	118.56	101.50	84.00	73.50	84.00	33.80	31.00	24.30	29.40	
5	151.60	171.79	154.05	109.00	152.21	100.50	78.50	87.50	33.80	31.80	24.30	30.60	
6	162.61	155.27	151.60	101.00	149.76	107.00	84.00	88.50	33.80	29.80	25.50	29.40	
7	173.01	140.59	149.76	100.00	154.05	106.00	88.00	85.50	34.60	28.60	26.70	28.60	
8	180.96	131.41	150.88	104.00	155.88	102.50	90.00	81.00	37.40	28.60	28.60	27.00	
9	184.63	125.29	157.72	113.06	154.66	101.00	90.50	79.50	35.00	26.70	28.60	27.00	
10	186.47	120.40	153.44	110.00	162.00	104.50	87.00	76.50	34.60	25.80	27.40	26.40	
11	187.08	129.58	146.09	108.00	173.32	106.50	83.50	74.00	33.80	25.50	25.50	25.80	
12	188.20	149.76	143.65	107.00	131.41	104.00	81.00	71.00	32.20	25.50	25.50	25.20	
13	188.97	138.14	140.59	102.50	155.27	100.50	80.00	73.50	31.00	25.50	25.80	25.50	
14	190.14	135.08	140.59	98.00	176.68	95.00	81.00	92.50	30.60	25.20	25.20	25.50	
15	190.14	133.85	143.65	95.50	173.62	89.50	82.50	86.00	29.80	25.20	24.60	26.10	
16	190.75	133.25	147.93	96.50	169.34	86.00	92.00	73.50	30.20	24.90	23.70	26.10	
17	191.36	133.25	156.49	100.50	155.27	80.50	112.45	65.50	29.80	24.60	23.40	25.50	
18	191.98	144.26	166.28	116.51	139.36	75.50	141.20	57.50	29.00	24.00	23.10	24.60	
19	192.59	154.05	166.28	122.23	122.23	71.00	144.26	52.20	29.40	23.70	23.40	23.70	
20	192.59	152.21	166.89	130.99	109.50	65.00	137.53	49.40	29.40	24.00	23.70	22.50	
21	194.42	151.60	166.28	218.90	103.50	60.00	126.52	47.00	29.00	23.70	24.30	21.60	
22	193.20	148.54	143.03	319.60	96.50	54.60	113.67	45.00	29.00	23.70	25.20	22.50	
23	192.59	150.38	124.07	392.40	93.50	52.60	104.50	44.60	29.00	24.00	25.50	22.80	
24	192.59	154.66	110.00	414.80	89.00	50.60	98.50	44.60	29.00	24.00	25.20	22.20	
25	192.59	158.94	104.00	326.00	82.50	46.20	97.00	43.00	29.00	25.20	25.20	20.70	
26	195.04	158.33	104.00	295.90	80.50	43.00	96.50	43.40	29.00	24.60	24.60	19.80	
27	195.04	154.66	109.50	256.50	75.50	40.20	96.50	41.00	29.00	24.30	24.60	19.50	
28	195.04	155.88	117.95	263.90	71.00	38.60	95.50	39.80	28.60	23.70	24.30	20.40	
29	195.65	156.49	124.07	241.30	68.00	39.40	94.50	39.40	28.60	24.00		21.30	
30	196.26	157.72	127.13	226.60	66.00	41.00	93.00	39.00	28.20	24.30		22.50	
31		159.55		196.26	63.50		89.50		29.20	24.30		22.50	
TOTAL	5395.90	4741.81	4304.25	5392.02	3848.24	2268.20	2899.73	1962.40	971.80	804.00	701.10	761.50	34050.92 CMSDAY
MEAN	179.86	152.96	143.47	173.94	124.14	75.61	93.54	65.41	31.35	25.94	25.04	24.56	93.29 CMS
MAX	196.26	198.71	166.89	414.80	176.68	107.00	144.26	92.50	37.40	31.80	28.60	30.60	414.80 CMS
MIN	123.46	120.40	104.00	95.50	63.50	38.60	46.60	39.00	28.20	23.70	23.10	19.50	19.50 CMS
RUNOFF	466.206	409.693	371.887	465.870	332.488	195.972	250.537	169.551	83.963	69.466	60.575	65.794	2941.999 MCM

MOMENTARY PEAK 414.80 CMS, AT 140.26 M (MSL), AT 12.00 HOURS, ON JUL 24, 1981

RUNOFF YIELD 3.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

CHI RIVER AT BAN THA PHRA, KHON KAEN (E.16A)

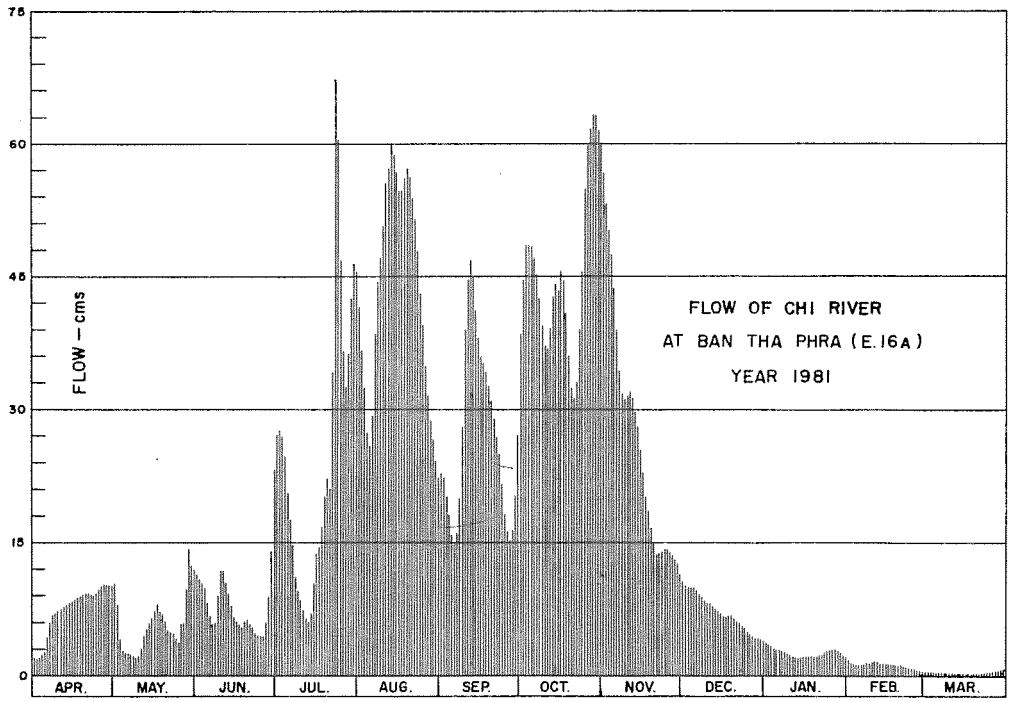
LOCATION — LAT. 16-21-14 N., LONG. 102-48-09 E., ON LEFT BANK ABOUT 400 METERS UPSTREAM FROM THE BRIDGE OF KHON KAEN-MAHA SARAKHAM HIGHWAY, TAMBON DON HAN, AMPHOE MUANG KHON KAEN.

DRAINAGE AREA	13,171 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	143.07	143.74	143.79	144.42	144.81	144.28	144.77	145.18	143.76	143.26	143.04	142.81	
2	143.07	143.54	143.77	144.44	144.67	144.26	144.94	145.10	143.73	143.24	143.01	142.80	
3	143.07	143.24	143.74	144.41	144.53	144.17	144.99	145.04	143.72	143.22	142.97	142.83	
4	143.09	143.15	143.70	144.30	144.40	144.09	144.99	144.95	143.72	143.20	142.97	142.79	
5	143.15	143.14	143.60	144.18	144.38	144.01	144.99	144.84	143.72	143.19	142.96	142.80	
6	143.34	143.13	143.51	144.07	144.53	143.96	144.96	144.71	143.71	143.18	142.96	142.79	
7	143.46	143.11	143.43	143.95	144.75	143.99	144.92	144.61	143.67	143.18	142.97	142.77	
8	143.51	143.10	143.46	143.80	144.89	144.17	144.85	144.56	143.64	143.16	143.00	142.76	
9	143.53	143.09	143.70	143.68	144.95	144.49	144.76	144.54	143.62	143.14	142.99	142.75	
10	143.55	143.09	143.82	143.59	145.04	144.74	144.71	144.55	143.61	143.12	142.97	142.75	
11	143.56	143.18	143.82	143.54	145.11	144.89	144.70	144.57	143.61	143.10	143.01	142.74	
12	143.58	143.30	143.75	143.48	145.17	144.95	144.77	144.55	143.59	143.08	143.00	142.74	
13	143.59	143.39	143.65	143.45	145.23	144.90	144.85	144.50	143.57	143.08	142.98	142.73	
14	143.60	143.45	143.58	143.52	145.22	144.81	144.88	144.44	143.56	143.08	142.97	142.71	
15	143.61	143.50	143.51	143.76	145.18	144.73	144.86	144.34	143.53	143.09	142.97	142.71	
16	143.62	143.55	143.47	143.92	145.13	144.67	144.92	144.26	143.51	143.10	142.97	142.69	
17	143.64	143.60	143.44	143.97	145.13	144.65	144.89	144.16	143.50	143.10	142.96	142.67	
18	143.66	143.54	143.40	144.05	145.16	144.62	144.77	144.07	143.51	143.10	142.95	142.67	
19	143.66	143.52	143.46	144.19	145.18	144.57	144.66	144.01	143.51	143.10	142.95	142.67	
20	143.67	143.45	143.48	144.26	145.17	144.53	144.58	143.95	143.50	143.10	142.92	142.68	
21	143.67	143.38	143.44	144.21	145.12	144.48	144.54	143.91	143.47	143.10	142.92	142.68	
22	143.66	143.36	143.40	144.67	145.06	144.41	144.60	143.91	143.46	143.11	142.92	142.71	
23	143.65	143.36	143.35	145.39	144.97	144.33	144.77	143.92	143.44	143.12	142.91	142.71	
24	143.68	143.32	143.32	145.35	144.86	144.21	144.96	143.94	143.40	143.14	142.90	142.73	
25	143.71	143.29	143.32	144.98	144.73	144.11	145.11	143.94	143.37	143.16	142.89	142.74	
26	143.73	143.43	143.31	144.66	144.62	144.03	145.22	143.92	143.35	143.16	142.87	142.76	
27	143.73	143.43	143.43	144.58	144.54	143.99	145.28	143.90	143.32	143.17	142.85	142.78	
28	143.73	143.78	143.65	144.72	144.46	144.04	145.31	143.88	143.31	143.16	142.83	142.80	
29	143.73	143.94	144.00	144.90	144.39	144.21	145.31	143.83	143.31	143.14		142.81	
30	143.72	143.77	144.28	144.94	144.33	144.50	145.29	143.78	143.30	143.11		142.82	
31		143.83		144.91	144.26		145.25		143.28	143.08		142.83	
MEAN	143.53	143.41	143.59	144.27	144.84	144.39	144.92	144.33	143.53	143.14	142.95	142.75	
MAX	143.73	143.94	144.28	145.39	145.23	144.95	145.31	145.18	143.76	143.26	143.04	142.83	145.39
MIN	143.07	143.09	143.31	143.45	144.26	143.96	144.54	143.78	143.28	143.08	142.83	142.67	142.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 145.46 M (MSL), AT 20.00 HOURS, ON JUL 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 142.94 M (MSL), RIVER BED 141.03 M (MSL)
LEFT BANK ELEVATION 157.77 M (MSL)
RIGHT BANK ELEVATION 157.77 M (MSL), DRAINAGE AREA 13171 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.09	10.42	11.32	27.06	41.11	22.82	39.53	57.08	10.78	3.79	1.88	0.55	
2	2.09	7.20	10.96	27.72	35.69	22.24	46.44	53.40	10.24	3.59	1.67	0.50	
3	2.09	3.59	10.42	26.73	30.72	19.72	48.49	50.70	10.06	3.38	1.42	0.65	
4	2.23	2.74	9.70	23.40	26.40	17.66	48.49	46.85	10.06	3.18	1.42	0.47	
5	2.74	2.65	8.10	19.98	25.80	15.74	48.49	42.34	10.06	3.09	1.36	0.50	
6	4.68	2.56	6.75	17.18	30.72	14.66	47.26	37.19	9.88	3.00	1.36	0.47	
7	6.12	2.39	5.76	14.45	38.75	15.29	45.62	33.47	9.22	3.00	1.42	0.41	
8	6.75	2.30	6.12	11.50	44.39	19.72	42.75	31.74	8.74	2.83	1.60	0.38	
9	7.05	2.23	9.70	9.38	46.85	29.37	39.14	31.06	8.42	2.65	1.54	0.35	
10	7.35	2.23	11.88	7.95	50.70	38.36	37.19	31.40	8.26	2.48	1.42	0.35	
11	7.50	3.00	11.88	7.20	53.86	44.39	36.80	32.08	8.26	2.30	1.67	0.32	
12	7.80	4.20	10.60	6.36	56.62	46.85	39.53	31.40	7.95	2.16	1.60	0.32	
13	7.95	5.28	8.90	6.00	59.41	44.80	42.75	29.70	7.65	2.16	1.48	0.29	
14	8.10	6.00	7.80	6.90	58.94	41.11	43.98	27.72	7.50	2.16	1.42	0.23	
15	8.26	6.60	6.75	10.78	57.08	37.97	43.16	24.60	7.05	2.23	1.42	0.23	
16	8.42	7.35	6.24	13.82	54.78	35.69	45.62	22.24	6.75	2.30	1.42	0.18	
17	8.74	8.10	5.88	14.87	54.78	34.95	44.39	19.46	6.60	2.30	1.36	0.14	
18	9.06	7.20	5.40	16.70	56.16	33.84	39.53	17.18	6.75	2.30	1.30	0.14	
19	9.06	6.90	6.12	20.24	57.08	32.08	35.32	15.74	6.75	2.30	1.30	0.14	
20	9.22	6.00	6.36	22.24	56.62	30.72	32.42	14.45	6.60	2.30	1.12	0.16	
21	9.22	5.16	5.88	20.79	54.32	29.04	31.06	13.61	6.24	2.30	1.12	0.16	
22	9.06	4.92	5.40	35.69	51.60	26.73	33.10	13.61	6.12	2.39	1.12	0.23	
23	8.90	4.92	4.80	67.11	47.67	24.30	39.53	12.82	5.88	2.48	1.06	0.23	
24	9.38	4.44	4.44	65.15	43.16	20.79	47.26	14.24	5.40	2.65	1.00	0.29	
25	9.88	4.10	4.44	48.08	37.97	18.16	53.86	14.24	5.04	2.83	0.95	0.32	
26	10.24	5.76	4.32	35.32	33.84	16.22	58.94	13.82	4.80	2.83	0.85	0.38	
27	10.24	5.76	5.76	32.42	31.06	15.29	61.76	13.40	4.44	2.92	0.75	0.44	
28	10.24	11.14	8.90	37.58	28.38	16.46	63.19	13.02	4.32	2.83	0.65	0.50	
29	10.24	14.24	15.50	44.80	26.10	20.79	63.19	12.07	4.32	2.65		0.55	
30	10.06	10.96	22.82	46.44	24.30	29.70	62.23	11.14	4.20	2.39		0.60	
31		12.07		45.21	22.24		60.35		4.00	2.16		0.65	
TOTAL	224.76	182.41	248.90	789.05	1397.10	815.46	1421.37	782.77	222.34	81.93	36.68	11.13	6153.89 CMSDAY
MEAN	7.49	5.88	8.30	25.45	43.13	27.18	45.85	26.09	7.17	2.64	1.31	0.36	16.86 CMS
MAX	10.24	14.24	22.82	67.11	59.41	46.85	63.19	57.08	10.78	3.79	1.88	0.65	67.11 CMS
MIN	2.09	2.23	4.32	6.00	22.24	14.66	31.06	11.14	4.00	2.16	0.65	0.14	0.14 CMS
RUNOFF	19.419	15.760	21.505	68.174	115.525	70.456	122.806	67.631	19.210	7.079	3.169	0.962	531.696 MCM

MOMENTARY PEAK 70.60 CMS, AT 145.46 M (MSL), AT 20.00 HOURS, ON JUL 23, 1981

RUNOFF YIELD 1.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 5.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

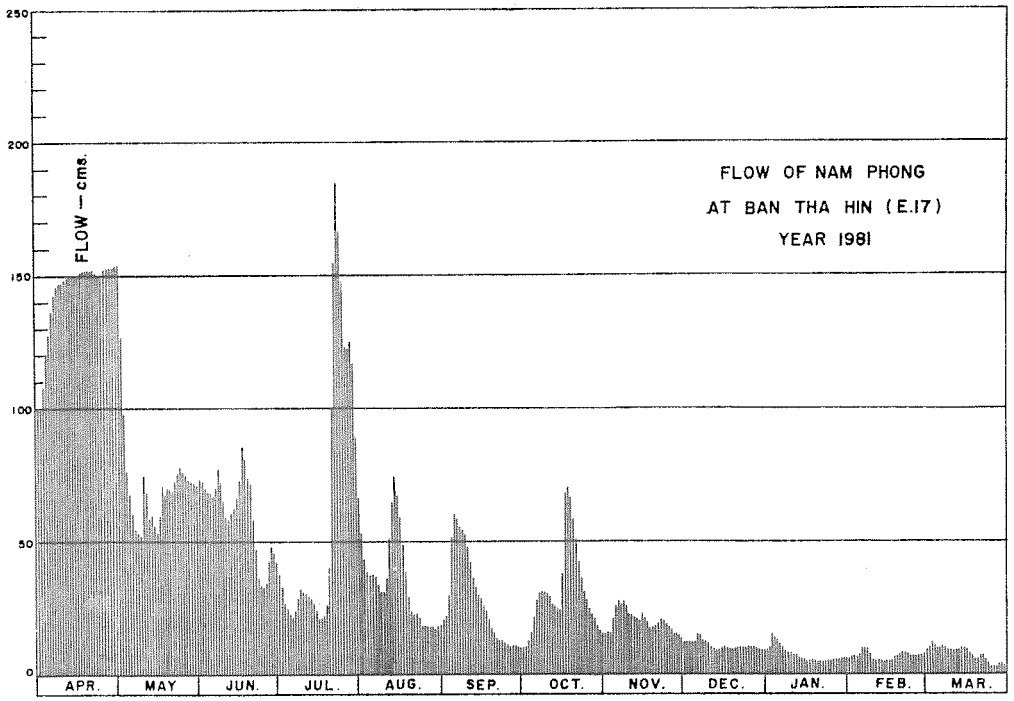
NAM PHONG AT BAN THA HIN, KHON KAEN (E.17)

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, TAMBON THA HIN, AMPHOE MUANG, KHON KAEN.
DRAINAGE AREA	14,426 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 306 DISCHARGE MEASUREMENTS MADE DURING 1965-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	145.17	146.56	144.43	143.28	143.76	142.70	142.15	142.46	142.28	142.11	141.94	142.12	
2	145.20	145.93	144.42	143.12	143.44	142.78	142.19	142.42	142.28	142.19	141.94	142.21	
3	145.64	145.11	144.32	142.95	143.34	143.20	142.34	142.52	142.25	142.43	141.94	142.25	
4	145.76	144.65	144.28	142.81	143.31	143.84	142.45	142.80	142.26	142.39	141.98	142.22	
5	146.01	144.34	144.28	142.70	143.33	144.05	142.79	142.93	142.28	142.27	142.07	142.18	
6	146.24	144.10	144.26	142.71	143.30	144.02	142.98	142.93	142.41	142.19	142.15	142.18	
7	146.36	143.95	144.37	142.87	143.24	143.91	143.07	142.90	142.39	142.13	142.18	142.19	
8	146.40	143.83	144.55	143.05	143.09	143.85	143.10	142.96	142.28	142.06	142.12	142.18	
9	146.41	143.78	144.31	143.09	143.10	143.80	143.07	142.88	142.27	142.02	141.96	142.14	
10	146.42	144.13	144.07	143.07	143.14	143.63	143.05	142.74	142.23	141.99	141.84	142.13	
11	146.44	144.46	143.97	143.04	143.56	143.39	142.99	142.70	142.18	141.98	141.82	142.12	
12	146.45	144.13	144.04	142.99	144.07	143.23	142.90	142.68	142.13	141.95	141.85	142.12	
13	146.46	144.00	144.08	142.92	144.44	143.09	142.85	142.64	142.11	141.91	141.86	142.14	
14	146.47	144.01	144.19	142.85	144.38	143.02	142.82	142.67	142.12	141.87	141.86	142.18	
15	146.47	143.94	144.27	142.77	144.18	143.01	142.82	142.74	142.15	141.85	141.85	142.16	
16	146.49	143.85	144.53	142.67	143.89	142.90	143.51	142.70	142.15	141.84	141.85	142.09	
17	146.50	144.13	144.77	142.69	143.57	142.79	144.32	142.63	142.14	141.83	141.87	142.01	
18	146.50	144.35	144.60	142.80	143.20	142.68	144.35	142.54	142.13	141.82	141.92	141.94	
19	146.52	144.26	144.44	143.06	142.93	142.53	144.20	142.56	142.13	141.81	141.97	141.84	
20	146.52	144.33	144.36	143.75	142.73	142.41	144.02	142.56	142.13	141.80	142.01	141.87	
21	146.50	144.31	143.91	146.15	142.75	142.31	143.77	142.60	142.15	141.80	142.04	141.96	
22	146.50	144.39	143.59	147.19	142.75	142.27	143.50	142.65	142.15	141.81	142.05	141.91	
23	146.48	144.50	143.33	147.30	142.66	142.25	143.26	142.62	142.15	141.83	142.04	141.79	
24	146.47	144.57	143.18	146.72	142.57	142.20	143.09	142.57	142.15	141.87	142.01	141.71	
25	146.50	144.56	143.17	145.98	142.56	142.15	142.93	142.52	142.16	141.86	141.98	141.67	
26	146.53	144.48	143.27	145.74	142.56	142.16	142.82	142.47	142.15	141.87	141.96	141.68	
27	146.53	144.46	143.66	145.78	142.52	142.19	142.72	142.41	142.14	141.90	141.98	141.69	
28	146.55	144.42	143.68	145.82	142.56	142.20	142.63	142.42	142.12	141.91	142.05	141.73	
29	146.53	144.41	143.56	145.57	142.54	142.17	142.56	142.37	142.12	141.90		141.73	
30	146.57	144.38	143.45	144.91	142.55	142.14	142.46	142.30	142.12	141.91		141.69	
31		144.38		144.22	142.62		142.41		142.10	141.93		141.65	
MEAN	146.32	144.41	144.04	144.02	143.18	142.90	143.04	142.63	142.19	141.97	141.97	141.98	
MAX	146.57	146.56	144.77	147.30	144.44	144.05	144.35	142.96	142.41	142.43	142.18	142.25	147.30
MIN	145.17	143.78	143.17	142.67	142.52	142.14	142.15	142.30	142.10	141.80	141.82	141.65	141.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 147.37 M (MSL), AT 18.00 HOURS, ON JUL 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 140.82 M (MSL), RIVER BED 138.80 M (MSL)
LEFT BANK ELEVATION 154.99 M (MSL)
RIGHT BANK ELEVATION 154.99 M (MSL), DRAINAGE AREA 14426 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	99.80	153.36	73.16	36.48	50.98	21.52	10.28	16.33	12.82	9.54	6.98	9.70	
2	100.88	128.79	72.80	32.00	41.20	23.44	11.06	15.55	12.82	11.06	6.98	11.45	
3	117.48	97.64	69.40	27.58	38.20	34.24	13.99	17.50	12.23	15.74	6.98	12.23	
4	122.16	81.08	68.08	24.16	37.32	53.56	16.13	23.92	12.43	14.96	7.54	11.65	
5	131.91	70.08	68.08	21.52	37.90	60.49	23.68	27.06	12.82	12.62	8.90	10.87	
6	140.88	62.14	67.42	21.76	37.04	59.50	28.36	27.06	15.35	11.06	10.28	10.87	
7	145.56	57.19	71.10	25.60	35.36	55.87	30.70	26.32	14.96	9.89	10.87	11.06	
8	147.12	53.23	77.48	30.18	31.22	53.89	31.48	27.84	12.82	8.74	9.70	10.87	
9	147.51	51.62	69.07	31.22	31.48	52.26	30.70	25.84	12.62	8.10	7.26	10.09	
10	147.90	63.13	61.15	30.70	32.56	46.91	30.18	22.48	11.84	7.68	5.66	9.89	
11	148.68	74.24	57.85	29.92	44.80	39.70	28.62	21.52	10.87	7.54	5.40	9.70	
12	149.07	63.13	60.16	28.62	61.15	35.08	26.32	21.04	9.89	7.12	5.79	9.70	
13	149.46	58.84	61.48	26.80	73.52	31.22	25.12	20.08	9.54	6.57	5.92	10.09	
14	149.85	59.17	65.11	25.12	71.44	29.40	24.40	20.80	9.70	6.05	5.92	10.87	
15	149.85	56.86	67.75	23.20	64.78	29.14	24.40	22.48	10.28	5.79	5.79	10.48	
16	150.63	53.89	76.76	20.80	55.21	26.32	43.30	21.52	10.28	5.66	5.79	9.22	
17	151.02	63.13	85.40	21.28	45.10	23.68	69.40	19.84	10.09	5.53	6.05	7.96	
18	151.02	70.42	79.28	23.92	34.24	21.04	70.42	17.92	9.89	5.40	6.70	6.98	
19	151.80	67.42	73.52	30.44	27.06	17.71	65.44	18.34	9.89	5.27	7.40	5.66	
20	151.80	69.74	70.76	50.66	22.24	15.35	59.50	18.34	9.89	5.14	7.96	6.05	
21	151.02	69.07	55.87	137.37	22.72	13.40	51.30	19.18	10.28	5.14	8.42	7.26	
22	151.02	71.78	45.70	179.73	22.72	12.62	43.00	20.32	10.28	5.27	8.58	6.57	
23	150.24	75.68	37.90	184.66	20.56	12.23	35.92	19.60	10.28	5.53	8.42	5.01	
24	149.85	78.20	33.68	159.60	18.55	11.26	31.22	18.55	10.28	6.05	7.96	3.99	
25	151.02	77.84	33.40	130.74	18.34	10.28	27.06	17.50	10.48	5.92	7.54	3.55	
26	152.19	74.96	36.20	121.38	18.34	10.48	24.40	16.52	10.28	6.05	7.26	3.66	
27	152.19	74.24	47.84	122.94	17.50	11.06	22.00	15.35	10.09	6.44	7.54	3.77	
28	152.97	72.80	48.46	124.50	18.34	11.26	19.84	15.55	9.70	6.57	8.58	4.23	
29	152.19	72.46	44.80	114.75	17.92	10.67	18.34	14.57	9.70	6.44		4.23	
30	153.75	71.44	41.50	90.44	18.13	10.09	16.33	13.21	9.70	6.57		3.77	
31		71.44		66.10	19.60		15.35		9.38	6.84		3.33	
TOTAL	4320.82	2265.01	1821.16	1994.17	1085.52	843.67	968.24	602.13	341.48	236.28	208.17	244.76	14931.38 CMSDAY
MEAN	144.03	73.06	60.71	64.33	35.02	28.12	31.23	20.07	11.02	7.62	7.43	7.90	40.91 CMS
MAX	153.75	153.36	85.40	184.66	73.52	60.49	70.42	27.84	15.35	15.74	10.87	12.23	184.66 CMS
MIN	99.80	51.62	33.40	20.80	17.50	10.09	10.28	13.21	9.38	5.14	5.40	3.33	3.33 CMS
RUNOFF	373.318	195.697	157.348	172.296	93.789	72.893	83.656	52.024	9.504	20.415	17.986	21.147	1290.071 MCM

MOMENTARY PEAK 187.80 CMS, AT 147.37 M (MSL), AT 18.00 HOURS, ON JUL 22, 1981
RUNOFF YIELD 2.84 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 13.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

CHI RIVER AT BAN THA SABAENG, ROI ET (E.18)

LOCATION	LAT. 16°-01'-59" N., LONG. 103°-54'-38" E., ON LEFT BANK AT BAN THA SABAENG, AMPHOE THAWATCHABURI, ROI ET.
DRAINAGE AREA	41.594 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 81 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

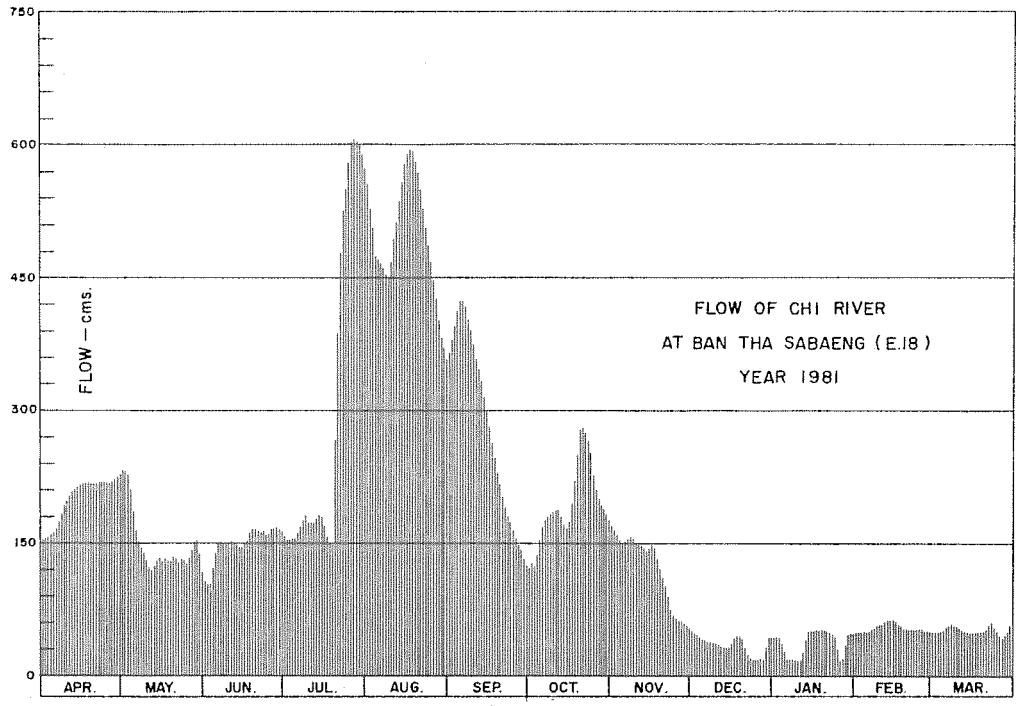
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	125.64	126.54	124.99	125.67	129.60	127.87	125.23	125.80	124.12	123.96	124.09	124.10	
2	125.65	126.52	124.97	125.62	129.37	128.01	125.29	125.73	124.08	123.96	124.10	124.09	
3	125.65	126.47	124.96	125.63	129.11	128.22	125.27	125.66	124.03	123.96	124.11	124.09	
4	125.71	126.26	125.16	125.63	128.88	128.37	125.42	125.60	123.97	123.84	124.11	124.11	
5	125.73	125.96	125.48	125.63	128.85	128.42	125.69	125.56	123.93	123.62	124.10	124.13	
6	125.82	125.69	125.59	125.72	128.79	128.41	125.84	125.59	123.89	123.48	124.10	124.17	
7	125.93	125.57	125.60	125.84	128.73	128.34	125.92	125.66	123.85	123.47	124.13	124.23	
8	126.05	125.47	125.57	125.92	128.68	128.22	125.96	125.67	123.84	123.46	124.16	124.25	
9	126.15	125.40	125.55	125.99	128.63	128.07	126.00	125.64	123.84	123.44	124.23	124.24	
10	126.20	125.30	125.58	125.89	128.78	127.91	126.04	125.58	123.84	123.41	124.28	124.20	
11	126.25	125.21	125.62	125.86	129.05	127.78	126.06	125.56	123.83	123.40	124.29	124.15	
12	126.29	125.17	125.61	125.86	129.28	127.67	126.05	125.55	123.79	123.66	124.29	124.12	
13	126.32	125.24	125.57	125.92	129.48	127.53	125.97	125.50	123.75	123.92	124.34	124.11	
14	126.35	125.34	125.52	126.01	129.69	127.38	125.86	125.46	123.72	124.08	124.36	124.10	
15	126.38	125.37	125.51	125.95	129.82	127.21	125.79	125.52	123.75	124.12	124.36	124.08	
16	126.39	125.32	125.56	125.79	129.90	127.02	125.91	125.58	123.86	124.12	124.34	124.08	
17	126.39	125.35	125.62	125.65	129.94	126.84	126.16	125.52	123.97	124.12	124.28	124.08	
18	126.39	125.30	125.75	125.57	129.94	126.66	126.48	125.38	124.01	124.10	124.23	124.08	
19	126.39	125.31	125.79	125.55	129.86	126.49	126.83	125.17	124.01	124.10	124.18	124.08	
20	126.38	125.38	125.78	126.87	129.75	126.36	127.03	125.08	123.94	124.12	124.15	124.08	
21	126.38	125.37	125.74	128.37	129.58	126.22	127.05	124.99	123.75	124.11	124.14	124.15	
22	126.42	125.30	125.74	128.84	129.38	126.08	126.99	124.69	123.59	124.08	124.13	124.25	
23	126.42	125.35	125.76	129.30	129.17	125.96	126.90	124.52	123.52	124.05	124.13	124.28	
24	126.41	125.32	125.69	129.61	128.96	125.86	126.73	124.42	123.50	123.99	124.14	124.19	
25	126.40	125.28	125.69	129.84	128.80	125.77	126.52	124.36	123.48	123.69	124.15	124.07	
26	126.40	125.35	125.78	130.00	128.60	125.66	126.34	124.33	123.47	123.44	124.15	124.00	
27	126.41	125.46	125.79	130.04	128.41	125.56	126.21	124.28	123.50	123.47	124.13	123.97	
28	126.44	125.60	125.78	130.04	128.21	125.46	126.12	124.25	123.45	123.88	124.11	123.98	
29	126.46	125.60	125.75	130.00	128.02	125.36	126.04	124.20	123.60	124.04		124.10	
30	126.52	125.41	125.74	129.90	127.91	125.26	125.96	124.16	123.94	124.07		124.26	
31		125.10		129.77	127.81		125.88		123.96	124.08		124.20	
MEAN	126.21	125.53	125.57	127.17	129.06	127.00	126.11	125.17	123.81	123.85	124.19	124.13	
MAX	126.52	126.54	125.79	130.04	129.94	128.42	127.05	125.80	124.12	124.12	124.36	124.30	130.04
MIN	125.64	125.10	124.96	125.55	127.81	125.26	125.23	124.16	123.45	123.40	124.09	123.97	123.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 130.04 M (MSL), AT 12.00 HOURS, ON JUL 28, 1981

ZERO GAGE AT BOTTOM ELEVATION 122.24 M (MSL), RIVER BED 120.13 M (MSL)

LEFT BANK ELEVATION 132.89 M (MSL)

RIGHT BANK ELEVATION 132.72 M (MSL), DRAINAGE AREA 41594. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	154.2	230.6	105.3	156.6	554.0	363.7	122.1	167.0	51.0	43.0	49.5	50.0	
2	155.0	228.8	103.9	152.6	528.7	379.1	126.3	161.4	49.0	43.0	50.0	49.5	
3	155.0	224.3	103.2	153.4	500.1	402.2	124.9	155.8	46.5	43.0	50.5	49.5	
4	159.8	205.4	117.2	153.4	474.8	418.7	136.6	151.0	43.5	37.0	50.5	50.5	
5	161.4	179.8	141.4	153.4	471.5	424.2	158.2	147.8	41.5	26.0	50.0	51.5	
6	168.6	158.2	150.2	160.6	464.9	423.1	170.2	150.2	39.5	19.2	50.0	53.5	
7	177.4	148.6	151.0	170.2	458.3	415.4	176.6	155.8	37.5	18.8	51.5	56.8	
8	187.0	140.6	148.6	176.6	452.8	402.2	179.8	156.6	37.0	18.4	53.0	58.0	
9	195.5	135.0	147.0	182.2	447.3	385.7	183.0	154.2	37.0	17.6	56.8	57.4	
10	200.0	127.0	149.4	174.2	463.8	368.1	186.2	149.4	37.0	16.4	59.8	55.0	
11	204.5	120.7	152.6	171.8	493.5	353.8	187.8	147.8	36.5	16.0	60.4	52.5	
12	208.1	117.9	151.8	171.8	518.8	342.0	187.0	147.0	34.5	28.0	60.4	51.0	
13	210.8	122.8	148.6	176.6	540.8	328.0	180.6	143.0	32.5	41.0	63.4	50.5	
14	213.5	130.2	144.6	183.8	563.9	313.0	171.8	139.8	31.0	49.0	64.6	50.0	
15	216.2	132.6	143.8	179.0	578.4	296.0	166.2	144.6	32.5	51.0	64.6	49.0	
16	217.1	128.6	147.8	166.2	588.0	277.0	175.8	149.4	38.0	51.0	63.4	49.0	
17	217.1	131.0	152.6	155.0	592.8	259.0	196.4	144.6	43.5	51.0	59.8	49.0	
18	217.1	127.0	163.0	148.6	592.8	241.4	225.2	133.4	45.5	50.0	56.8	49.0	
19	217.1	127.8	166.2	147.0	583.2	226.1	258.0	117.9	45.5	50.0	54.0	49.0	
20	216.2	133.4	165.4	262.0	570.5	214.4	278.0	111.6	42.0	51.0	52.5	49.0	
21	216.2	132.6	162.2	418.7	551.8	201.8	280.0	105.3	32.5	50.5	52.0	52.5	
22	219.8	127.0	162.2	470.4	529.8	189.4	274.0	84.4	24.5	49.0	51.5	58.0	
23	219.8	131.0	163.8	521.0	506.7	179.8	265.0	74.2	21.0	47.5	51.5	59.8	
24	218.9	128.6	158.2	555.1	483.6	171.8	248.0	68.2	20.0	44.5	52.0	54.5	
25	218.0	125.6	158.2	580.8	466.0	164.6	228.8	64.6	19.2	29.5	52.5	48.5	
26	218.0	131.0	165.4	600.0	444.0	155.8	212.6	62.8	18.8	17.6	52.5	45.0	
27	218.9	139.8	166.2	604.8	423.1	147.8	200.9	59.8	20.0	18.8	51.5	43.5	
28	221.6	151.0	165.4	604.8	401.1	139.8	192.8	58.0	18.0	39.0	50.5	44.0	
29	223.4	151.0	163.0	600.0	380.2	131.8	186.2	55.0	35.0	47.0		50.0	
30	228.8	135.8	162.2	588.0	368.1	124.2	179.8	53.0	42.0	48.5		58.6	
31		113.0		572.7	357.1		173.4		43.0	49.0		61.0	
TOTAL	6055.0	4516.7	4480.4	9511.3	15350.4	8439.9	6032.2	3613.6	1095.0	1161.3	1535.5	1605.1	63396.3 CMSDAY
MEAN	201.8	145.7	149.3	306.8	495.2	281.3	194.6	120.5	35.3	37.5	54.8	51.8	173.7 CMS
MAX	228.8	230.6	166.2	604.8	592.8	424.2	280.0	167.0	51.0	51.0	64.6	61.0	604.8 CMS
MIN	154.2	113.0	103.2	147.0	357.1	124.2	122.1	53.0	18.0	16.0	49.5	43.5	16.0 CMS
RUNOFF	523.15	390.24	387.11	821.78	1326.27	729.21	521.18	312.21	94.61	100.34	132.67	138.68	5477.44 MCM

MOMENTARY PEAK 604.80 CMS, AT 130.04 M (MSL), AT 12.00 HOURS, ON JUL 28, 1981

RUNOFF YIELD 4.18 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 14.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +112.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — INFRONT OF THE POLICE STATION.

ELEVATION — +131.297 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW IS INCLUDED.

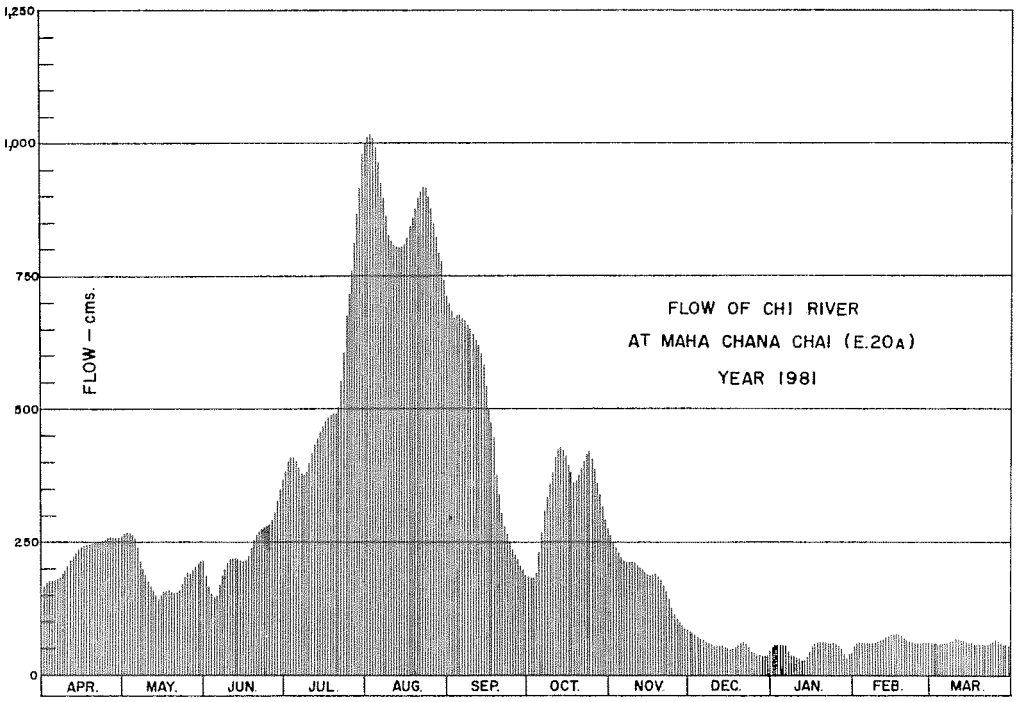
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 151 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — BANKS ELEVATION ARE THE ELEVATION OF HIGHWAY BRIDGE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	116.46	117.38	116.76	118.34	121.61	120.74	116.64	117.34	115.48	115.11	115.18	115.25	
2	116.52	117.39	116.50	118.45	121.63	120.66	116.58	117.22	115.44	115.16	115.20	115.23	
3	116.55	117.39	116.34	118.50	121.62	120.60	116.56	117.13	115.40	115.16	115.22	115.21	
4	116.57	117.37	116.24	118.48	121.62	120.63	116.71	117.04	115.37	115.17	115.23	115.21	
5	116.57	117.29	116.23	118.43	121.58	120.63	117.04	116.96	115.33	115.16	115.24	115.21	
6	116.58	117.17	116.42	118.34	121.51	120.61	117.37	116.92	115.29	115.10	115.24	115.22	
7	116.63	116.98	116.59	118.25	121.44	120.58	117.70	116.89	115.25	114.90	115.24	115.23	
8	116.70	116.77	116.75	118.23	121.35	120.54	117.97	116.89	115.22	114.88	115.25	115.26	
9	116.79	116.63	116.87	118.29	121.26	120.49	118.18	116.90	115.20	114.84	115.26	115.29	
10	116.87	116.56	116.95	118.42	121.23	120.46	118.36	116.89	115.17	114.82	115.28	115.32	
11	116.96	116.46	116.98	118.57	121.20	120.39	118.49	116.85	115.16	114.80	115.31	115.32	
12	117.03	116.37	116.98	118.67	121.18	120.30	118.58	116.81	115.16	114.78	115.36	115.30	
13	117.07	116.28	116.96	118.74	121.18	120.18	118.61	116.76	115.14	114.77	115.38	115.26	
14	117.16	116.23	116.92	118.82	121.19	120.04	118.58	116.73	115.12	114.87	115.39	115.24	
15	117.16	116.27	116.89	118.89	121.21	119.85	118.51	116.68	115.09	115.03	115.41	115.21	
16	117.18	116.37	116.90	118.97	121.25	119.61	118.38	116.65	115.06	115.16	115.43	115.20	
17	117.21	116.35	116.99	119.02	121.30	119.33	118.23	116.66	115.06	115.23	115.43	115.20	
18	117.22	116.36	117.13	119.04	121.36	119.01	118.14	116.68	115.12	115.25	115.43	115.19	
19	117.22	116.34	117.28	119.05	121.40	118.68	118.14	116.63	115.19	115.25	115.39	115.19	
20	117.23	116.33	117.38	119.03	121.44	118.36	118.24	116.54	115.23	115.25	115.35	115.19	
21	117.25	116.34	117.45	119.17	121.46	118.08	118.38	116.44	115.23	115.26	115.31	115.19	
22	117.26	116.38	117.49	119.49	121.48	117.85	118.50	116.33	115.21	115.26	115.29	115.19	
23	117.28	116.48	117.50	119.82	121.48	117.65	118.55	116.18	115.10	115.26	115.27	115.22	
24	117.28	116.66	117.53	120.10	121.44	117.48	118.52	116.01	114.99	115.25	115.25	115.28	
25	117.30	116.71	117.54	120.33	121.39	117.34	118.43	115.85	114.92	115.23	115.25	115.32	
26	117.30	116.69	117.57	120.58	121.33	117.22	118.28	115.74	114.89	115.17	115.25	115.29	
27	117.31	116.74	117.69	120.81	121.26	117.09	118.09	115.67	114.85	115.03	115.26	115.22	
28	117.31	116.82	117.87	121.03	121.16	116.98	117.89	115.61	114.84	114.89	115.26	115.17	
29	117.31	116.88	118.05	121.24	121.06	116.87	117.72	115.57	114.83	114.82		115.14	
30	117.36	116.93	118.21	121.42	120.95	116.76	117.59	115.53	114.84	114.98		115.12	
31		116.94		121.54	120.80		117.47		114.99	115.11		115.18	
MEAN	117.02	116.70	117.10	119.29	121.33	119.17	117.95	116.54	115.13	115.06	115.30	115.23	
MAX	117.36	117.39	118.21	121.54	121.63	120.74	118.61	117.34	115.48	115.26	115.43	115.32	121.63
MIN	116.46	116.23	116.23	118.23	120.80	116.76	116.56	115.53	114.83	114.77	115.18	115.12	114.77

ANNUAL MAX MOMENTARY GAGE HEIGHT 121.64 M (MSL), AT 6.00 HOURS, ON AUG 4, 1981
ZERO GAGE AT BOTTOM ELEVATION 112.00 M (MSL), RIVER BED 113.10 M (MSL)
LEFT BANK ELEVATION 124.25 M (MSL)
RIGHT BANK ELEVATION 124.25 M (MSL), DRAINAGE AREA 47818. SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	166.0	265.6	196.0	387.6	1009.5	694.0	184.0	260.8	80.4	51.7	56.6	62.0	
2	172.0	266.8	170.0	403.0	1014.5	678.4	178.0	246.4	77.2	55.2	58.0	60.4	
3	175.0	266.8	154.0	410.0	1012.0	667.0	176.0	235.6	74.0	55.2	59.6	58.8	
4	177.0	264.4	144.6	407.2	1012.0	672.7	191.0	224.8	71.6	55.9	60.4	58.8	
5	177.0	254.8	143.7	400.2	968.2	672.7	224.8	216.0	68.4	55.2	61.2	58.8	
6	178.0	240.4	162.0	387.6	926.9	668.9	264.4	212.0	65.2	51.0	61.2	59.6	
7	183.0	218.0	179.0	375.0	894.6	663.2	304.0	209.0	62.0	39.0	61.2	60.4	
8	190.0	197.0	195.0	372.2	857.5	655.6	338.1	209.0	59.6	37.8	62.0	62.8	
9	199.0	183.0	207.0	380.6	825.2	646.1	365.4	210.0	58.0	35.4	62.8	65.2	
10	207.0	176.0	215.0	398.8	815.6	640.4	390.4	209.0	55.9	34.2	64.4	67.6	
11	216.0	166.0	218.0	419.8	806.0	627.1	408.6	205.0	55.2	33.0	66.8	67.6	
12	223.6	157.0	218.0	433.8	800.8	610.0	421.2	201.0	55.2	31.8	70.8	66.0	
13	228.4	148.2	216.0	443.6	800.8	589.6	425.4	196.0	53.8	31.2	72.4	62.8	
14	239.2	143.7	212.0	454.8	803.4	565.8	421.2	193.0	52.4	37.2	73.2	61.2	
15	239.2	147.3	209.0	464.6	809.2	535.0	411.4	188.0	50.4	46.8	74.8	58.8	
16	241.6	157.0	210.0	475.8	822.0	499.4	393.2	185.0	48.6	55.2	76.4	58.0	
17	245.2	155.0	219.0	482.8	838.0	460.2	372.2	186.0	48.6	60.4	76.4	58.0	
18	246.4	156.0	235.6	485.6	861.4	415.4	360.2	188.0	52.4	62.0	76.4	57.3	
19	246.4	154.0	253.6	487.0	877.0	370.4	360.2	183.0	57.3	62.0	73.2	57.3	
20	247.6	153.0	265.6	484.2	894.6	331.2	373.6	174.0	60.4	62.0	70.0	57.3	
21	250.0	154.0	274.0	503.8	903.4	300.0	393.2	164.0	60.4	62.8	66.8	57.3	
22	251.2	158.0	278.8	550.4	912.2	277.0	410.0	153.0	58.8	62.8	65.2	57.3	
23	253.6	168.0	280.0	607.6	912.2	258.5	417.0	139.2	51.0	62.8	63.6	59.6	
24	253.6	185.0	283.6	658.0	894.6	243.2	412.8	123.9	44.4	62.0	62.0	64.4	
25	256.0	191.0	284.8	704.3	873.1	231.2	400.2	110.0	40.2	60.4	62.0	67.6	
26	256.0	189.0	286.4	758.4	849.7	221.6	379.2	101.2	38.4	55.9	62.0	65.2	
27	257.2	194.0	302.8	813.4	825.2	211.2	353.7	95.6	36.0	46.8	62.8	59.6	
28	257.2	202.0	325.1	866.2	795.6	202.4	327.7	90.8	35.4	38.4	62.8	55.9	
29	257.2	208.0	348.5	917.0	769.6	193.6	306.4	87.6	34.8	34.2		53.8	
30	263.2	213.0	369.4	962.0	742.0	184.8	290.8	84.4	35.4	43.8		52.4	
31		214.0		992.0	706.0		276.4		44.4	51.7		56.6	
TOTAL	6752.8	5946.0	7058.5	16887.3	26832.8	13986.6	10530.7	5281.3	1685.8	1533.8	1845.0	1868.4	100208.9 CMSDAY
MEAN	225.1	191.8	235.3	544.8	865.6	466.2	339.7	176.0	54.4	49.5	65.9	60.3	274.5 CMS
MAX	263.2	266.8	369.4	992.0	1014.5	694.0	425.4	260.8	80.4	62.8	76.4	67.6	1014.5 CMS
MIN	166.0	143.7	143.7	372.2	706.0	184.8	176.0	84.4	34.8	31.2	56.6	52.4	31.2 CMS
RUNOFF	583.44	513.73	609.85	1459.06	2318.35	1208.44	909.85	456.30	145.65	132.52	159.41	161.43	8658.04 MCM

MOMENTARY PEAK 1017.00 CMS, AT 121.64 M (MSL), AT 6.00 HOURS, ON AUG 4, 1981
RUNOFF YIELD 5.74 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 21.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

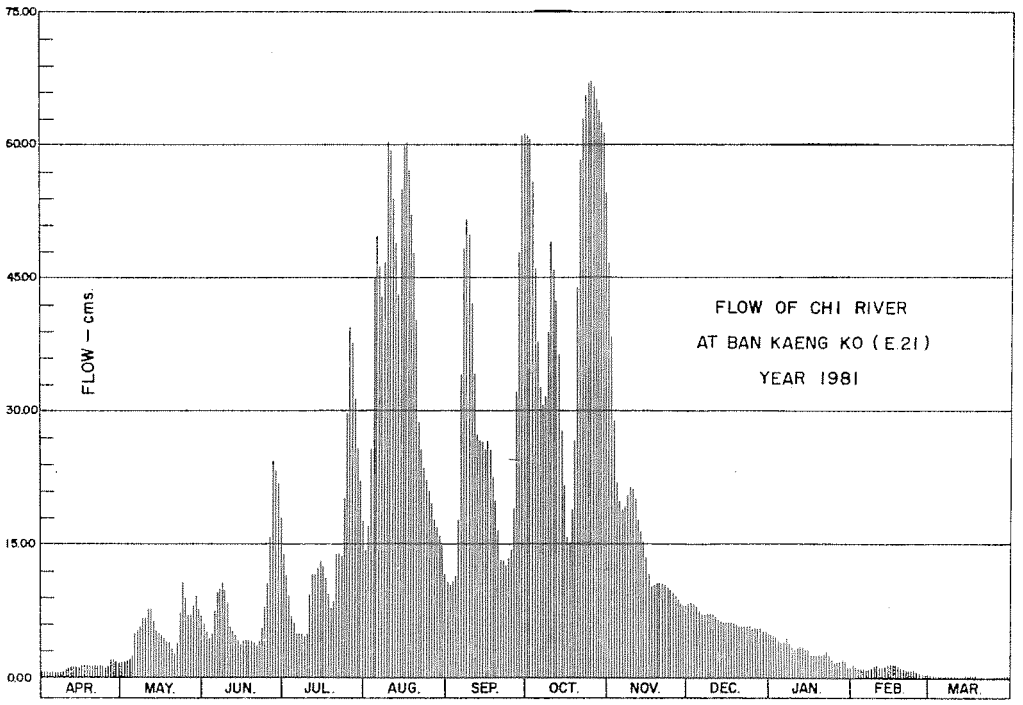
CHI RIVER AT BAN KAENG KO, CHAIYAPHUM (E.21)

LOCATION	LAT. 15-48-07 N., LONG. 102-15-24 E., ON LEFT BANK ABOUT 75 METERS UPSTREAM FROM THE BRIDGE AT BAN KAENG KO, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	8,912 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF THE LADDER OF 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
RATED BY FLOAT	-
RATED BY CURRENT METER	1968-1971, 1973-1974
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1974.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.26	1.34	1.55	1.81	1.83	1.72	2.78	2.36	1.64	1.49	1.32	1.23	
2	1.26	1.34	1.51	1.72	1.93	1.71	2.71	2.20	1.64	1.48	1.31	1.23	
3	1.26	1.35	1.47	1.65	2.18	1.72	2.59	2.08	1.64	1.48	1.30	1.21	
4	1.26	1.35	1.49	1.59	2.43	1.74	2.43	2.00	1.62	1.45	1.30	1.21	
5	1.26	1.38	1.62	1.55	2.54	1.93	2.29	1.96	1.60	1.44	1.30	1.21	
6	1.26	1.50	1.68	1.50	2.49	2.28	2.23	1.94	1.60	1.45	1.29	1.21	
7	1.26	1.52	1.70	1.50	2.43	2.52	2.21	1.95	1.60	1.46	1.29	1.21	
8	1.26	1.53	1.72	1.49	2.49	2.57	2.24	1.99	1.60	1.44	1.30	1.21	
9	1.27	1.58	1.67	1.48	2.65	2.52	2.41	2.01	1.60	1.41	1.31	1.21	
10	1.29	1.57	1.63	1.50	2.72	2.37	2.53	2.00	1.60	1.40	1.32	1.21	
11	1.30	1.62	1.53	1.67	2.65	2.21	2.45	1.96	1.58	1.41	1.31	1.20	
12	1.30	1.62	1.50	1.75	2.52	2.12	2.37	1.92	1.57	1.42	1.31	1.20	
13	1.31	1.57	1.49	1.75	2.43	2.13	2.26	1.88	1.55	1.42	1.31	1.20	
14	1.31	1.51	1.45	1.78	2.57	2.12	2.10	1.83	1.56	1.40	1.32	1.22	
15	1.30	1.50	1.43	1.80	2.6	2.10	1.97	1.80	1.56	1.40	1.32	1.22	
16	1.32	1.49	1.46	1.77	2.72	2.12	1.87	1.75	1.55	1.37	1.32	1.22	
17	1.32	1.47	1.46	1.73	2.66	2.10	1.84	1.71	1.55	1.37	1.32	1.22	
18	1.32	1.45	1.45	1.66	2.58	2.04	1.96	1.71	1.55	1.37	1.31	1.22	
19	1.32	1.45	1.45	1.62	2.46	1.95	2.25	1.72	1.54	1.37	1.30	1.20	
20	1.32	1.41	1.44	1.65	2.32	1.86	2.62	1.72	1.54	1.38	1.30	1.20	
21	1.32	1.37	1.43	1.82	2.13	1.80	2.83	1.72	1.54	1.38	1.28	1.20	
22	1.32	1.46	1.45	1.82	2.08	1.80	3.06	1.71	1.54	1.39	1.27	1.20	
23	1.32	1.60	1.56	1.81	2.03	1.78	3.22	1.70	1.54	1.37	1.28	1.20	
24	1.31	1.72	1.65	1.96	2.02	1.80	3.29	1.69	1.54	1.35	1.27	1.19	
25	1.30	1.64	1.74	2.21	1.99	1.84	3.30	1.68	1.53	1.33	1.26	1.18	
26	1.32	1.58	1.91	2.37	1.94	1.98	3.26	1.66	1.53	1.33	1.24	1.21	
27	1.35	1.60	2.07	2.34	1.91	2.34	3.14	1.65	1.53	1.34	1.24	1.21	
28	1.35	1.63	2.05	2.21	1.89	2.66	3.00	1.64	1.52	1.34	1.23	1.21	
29	1.34	1.67	2.00	2.09	1.86	2.78	2.85	1.64	1.51	1.35		1.21	
30	1.33	1.63	1.92	1.98	1.77	2.80	2.67	1.63	1.50	1.30		1.21	
31		1.59		1.89	1.74		2.52		1.50	1.31		1.24	
MEAN	1.30	1.52	1.62	1.79	2.28	2.11	2.56	1.84	1.56	1.39	1.29	1.21	
MAX	1.35	1.72	2.07	2.37	2.72	2.80	3.30	2.36	1.64	1.49	1.32	1.24	3.30
MIN	1.26	1.34	1.43	1.48	1.74	1.71	1.84	1.63	1.50	1.30	1.23	1.18	1.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.30 M (A.D), AT 12.00 HOURS, ON OCT 25, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.44 M (A.D)
LEFT BANK ELEVATION 9.86 M (A.D)
RIGHT BANK ELEVATION 8.06 M (A.D), DRAINAGE AREA 8912 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	1.80	6.00	13.40	14.20	10.60	60.80	38.60	8.20	4.80	1.40	0.30	
2	0.60	1.80	5.20	10.60	18.20	10.30	60.10	30.00	8.20	4.60	1.20	0.30	
3	0.60	2.00	4.40	8.50	29.10	10.60	52.40	24.60	8.20	4.60	1.00	0.10	
4	0.60	2.00	4.80	6.80	42.80	11.20	42.80	21.00	7.60	4.00	1.00	0.10	
5	0.60	2.60	7.60	6.00	49.40	18.20	34.50	19.40	7.00	3.80	1.00	0.10	
6	0.60	5.00	9.40	5.00	46.40	34.00	31.50	18.60	7.00	4.00	0.90	0.10	
7	0.60	5.40	10.00	5.00	42.80	48.20	30.50	19.00	7.00	4.20	0.90	0.10	
8	0.60	5.60	10.60	4.80	46.40	51.20	32.00	20.60	7.00	3.80	1.00	0.10	
9	0.70	6.60	9.10	4.60	56.50	48.20	41.60	21.45	7.00	3.20	1.20	0.10	
10	0.90	6.40	7.90	5.00	60.20	39.20	48.80	21.00	7.00	3.00	1.40	0.10	
11	1.00	7.60	5.60	9.10	56.50	30.50	44.00	19.40	6.60	3.20	1.20	0.00	
12	1.00	7.60	5.00	11.50	48.20	26.40	39.20	17.80	6.40	3.40	1.20	0.00	
13	1.20	6.40	4.80	11.50	42.80	26.85	33.00	16.20	6.00	3.40	1.20	0.00	
14	1.20	5.20	4.00	12.40	31.20	26.40	25.50	14.20	6.20	3.00	1.40	0.20	
15	1.00	5.00	3.60	13.00	59.30	25.50	19.80	13.00	6.20	3.00	1.40	0.20	
16	1.40	4.80	4.20	12.10	60.20	26.40	15.80	11.50	6.00	2.40	1.40	0.20	
17	1.40	4.40	4.20	10.90	57.20	25.50	14.60	10.30	6.00	2.40	1.40	0.20	
18	1.40	4.00	4.00	8.80	51.80	22.80	19.40	10.30	6.00	2.40	1.20	0.20	
19	1.40	4.00	4.00	7.60	44.60	19.00	32.50	10.60	5.80	2.40	1.00	0.00	
20	1.40	3.20	3.80	8.50	36.20	15.40	54.40	10.60	5.80	2.60	1.00	0.00	
21	1.40	2.40	3.60	13.80	26.85	13.00	61.30	10.60	5.80	2.60	0.80	0.00	
22	1.40	4.20	4.00	13.80	24.60	13.00	63.60	10.30	5.80	2.80	0.70	0.00	
23	1.40	7.00	6.20	13.40	22.35	12.40	65.80	10.00	5.80	2.40	0.80	0.00	
24	1.20	10.60	8.50	19.40	21.90	13.00	66.85	9.70	5.80	2.00	0.70	0.00	
25	1.00	8.20	11.20	30.50	20.60	14.60	67.00	9.40	5.60	1.60	0.60	0.00	
26	1.40	6.60	17.40	39.20	18.60	20.20	66.40	8.80	5.60	1.60	0.40	0.10	
27	2.00	7.00	24.15	37.40	17.40	37.40	64.60	8.50	5.60	1.80	0.40	0.10	
28	2.00	7.90	23.25	30.50	16.60	57.20	63.00	8.20	5.40	1.80	0.30	0.10	
29	1.80	9.10	21.00	25.05	15.40	60.80	61.50	8.20	5.20	2.00		0.10	
30	1.60	7.90	17.80	20.20	12.10	61.00	57.90	7.90	5.00	1.00		0.10	
31		6.80		16.60	11.20		48.20		5.00	1.20		0.40	
TOTAL	34.00	169.10	255.30	434.95	1121.60	829.05	1419.35	459.75	195.80	89.00	28.10	3.30	5039.29 CMSDAY
MEAN	1.13	5.45	8.51	14.03	36.18	27.63	45.79	15.32	6.32	2.87	1.00	0.11	13.81 CMS
MAX	2.00	10.60	24.15	39.20	60.20	61.00	67.00	38.60	8.20	4.80	1.40	0.40	67.00 CMS
MIN	0.60	1.80	3.60	4.60	11.20	10.30	14.60	7.90	5.00	1.00	0.30	0.00	0.00 CMS
RUNOFF	2.938	14.610	22.058	37.580	96.906	71.630	122.632	39.722	16.917	7.690	2.428	0.285	435.395 MCM

MOMENTARY PEAK 67.00 CMS, AT 3.30 M (A.D), AT 12.00 HOURS, ON OCT 25, 1981
RUNOFF YIELD 1.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 7.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

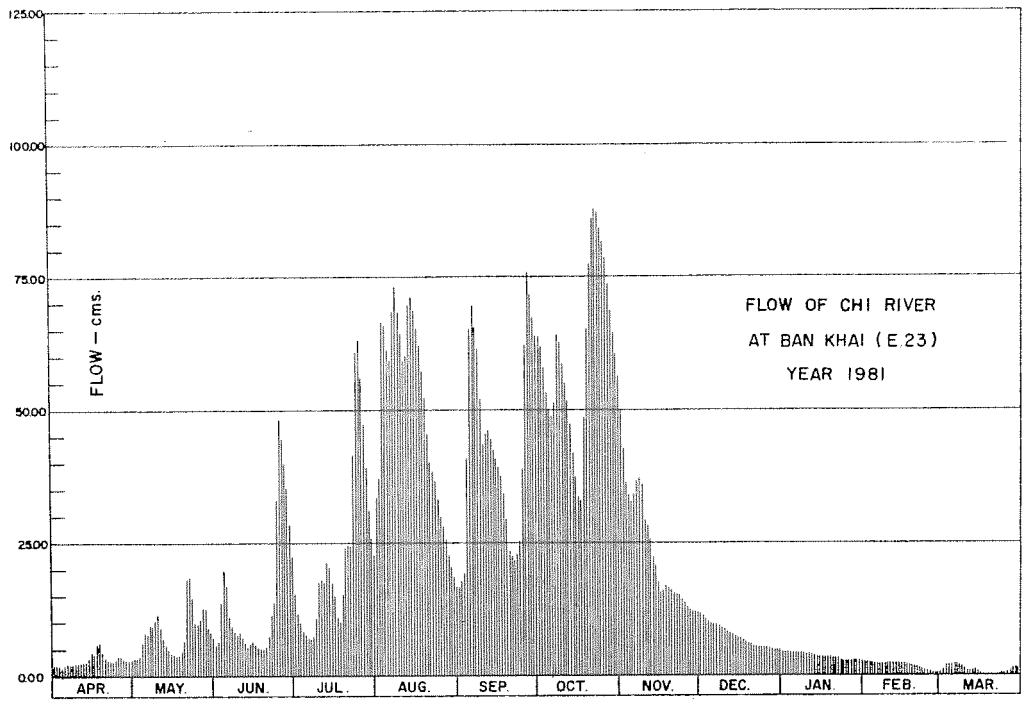
CHI RIVER AT BAN KHAI, CHAIYAPHUM (E.23)

LOCATION	LAT. 15°-40'-49" N., LONG. 102°-00'-47" E., ON LEFT BANK AT HIGHWAY BRIDGE, BAN KHAI, AMPHOE MUANG, CHAIYAPHUM.
DRAINAGE AREA	6,835 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	1955-1956, 1967 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1968-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1968-1974
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 686 DISCHARGE MEASUREMENTS MADE DURING 1968-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	175.10	175.32	175.64	176.47	177.88	176.61	179.60	178.65	176.23	175.47	175.21	174.84	
2	175.11	175.30	175.63	176.23	179.22	176.74	179.45	178.30	176.18	175.47	175.19	174.95	
3	175.05	175.36	176.24	176.04	179.77	176.86	179.13	177.96	176.11	175.48	175.18	175.10	
4	175.05	175.71	176.88	175.92	179.71	178.16	178.83	177.79	176.08	175.47	175.18	175.08	
5	175.11	175.86	176.67	175.81	179.37	179.66	178.79	177.75	176.07	175.46	175.16	175.07	
6	175.14	175.83	176.22	175.76	179.34	179.95	178.72	177.86	176.05	175.46	175.17	175.10	
7	175.12	176.02	176.05	175.74	179.87	179.67	178.98	178.01	176.03	175.46	175.18	175.18	
8	175.12	176.00	175.88	175.75	180.11	179.30	179.61	178.03	176.00	175.42	175.19	175.07	
9	175.15	176.11	175.82	176.14	179.95	178.83	179.53	177.92	175.96	175.40	175.19	175.02	
10	175.17	176.20	175.87	176.70	179.69	178.42	179.26	177.53	175.93	175.41	175.19	174.93	
11	175.18	175.95	175.79	176.75	179.32	178.54	178.99	177.43	175.89	175.42	175.19	174.91	
12	175.19	175.77	175.68	176.71	179.45	178.57	178.79	177.24	175.88	175.39	175.20	174.92	
13	175.19	175.65	175.60	176.97	179.93	178.45	178.59	177.04	175.85	175.37	175.19	174.88	
14	175.32	175.53	175.64	176.93	180.02	178.32	178.24	176.90	175.83	175.37	175.18	174.91	
15	175.45	175.47	175.71	176.69	179.89	178.19	177.93	176.72	175.79	175.36	175.16	174.87	
16	175.39	175.44	175.64	176.44	179.71	178.12	177.76	176.57	175.79	175.36	175.14	174.74	
17	175.64	175.40	175.59	176.17	179.53	178.03	177.74	176.58	175.74	175.35	175.11	174.68	
18	175.68	175.40	175.56	176.07	179.28	177.77	178.53	176.65	175.69	175.34	175.09	174.66	
19	175.48	175.37	175.54	176.52	178.92	177.42	179.82	176.63	175.66	175.34	175.09	174.62	
20	175.33	175.78	175.57	177.16	178.56	177.17	180.44	176.59	175.63	175.34	175.05	174.62	
21	175.27	176.76	175.84	177.20	178.21	177.06	180.71	176.56	175.61	175.32	174.98	174.62	
22	175.24	176.77	176.16	177.18	178.08	177.00	180.80	176.54	175.60	175.30	174.99	174.64	
23	175.21	176.40	176.34	178.06	178.01	177.11	180.76	176.49	175.60	175.28	174.90	174.64	
24	175.28	176.06	177.59	179.40	177.79	177.34	180.67	176.44	175.59	175.28	174.90	174.84	
25	175.37	176.02	178.70	179.58	177.54	178.16	180.53	176.36	175.59	175.28	174.86	174.84	
26	175.38	176.12	178.49	179.12	177.42	179.82	180.35	176.31	175.60	175.28	174.84	174.86	
27	175.32	176.31	178.20	178.66	177.30	180.25	180.15	176.30	175.55	175.27	174.80	175.00	
28	175.27	176.29	177.81	178.17	177.08	179.95	179.89	176.27	175.54	175.25	174.80	175.00	
29	175.26	176.00	177.32	177.63	176.89	179.65	179.63	176.24	175.52	175.24		175.06	
30	175.29	175.88	176.82	177.21	176.75	179.61	179.37	176.24	175.52	175.23		175.00	
31		175.81		177.08	176.64		179.01		175.52	175.22		175.04	
MEAN	175.26	175.87	176.35	176.98	178.75	178.36	179.37	177.06	175.79	175.36	175.08	174.89	
MAX	175.68	176.77	178.70	179.58	180.11	180.25	180.80	178.65	176.23	175.48	175.21	175.18	180.80
MIN	175.05	175.30	175.54	175.74	176.64	176.61	177.74	176.24	175.52	175.22	174.80	174.62	174.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 180.80 M (MSL), AT 12.00 HOURS, ON OCT 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 174.00 M (MSL), RIVER BED 175.43 M (MSL)
LEFT BANK ELEVATION 185.25 M (MSL)
RIGHT BANK ELEVATION 185.25 M (MSL), DRAINAGE AREA 6835 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.00	3.24	5.76	14.44	34.67	16.13	63.50	47.25	11.63	4.36	2.56	0.70	
2	2.05	3.10	5.67	11.63	56.94	17.82	60.85	41.30	11.08	4.36	2.45	1.25	
3	1.75	3.52	11.74	9.60	66.56	19.44	55.41	35.89	10.31	4.44	2.40	2.00	
4	1.75	6.39	19.72	8.40	65.48	39.06	50.31	33.30	10.00	4.36	2.40	1.90	
5	2.05	7.80	16.91	7.30	59.49	64.58	49.63	32.69	9.90	4.28	2.30	1.85	
6	2.20	7.50	11.52	6.84	58.98	69.80	48.44	34.37	9.70	4.28	2.35	2.00	
7	2.10	9.40	9.70	6.66	68.36	64.76	52.86	36.66	9.50	4.28	2.40	2.40	
8	2.10	9.20	8.00	6.75	72.79	58.30	63.68	36.98	9.20	3.96	2.45	1.85	
9	2.25	10.31	7.40	10.64	69.80	50.31	62.24	35.28	8.80	3.80	2.45	1.60	
10	2.35	11.30	7.90	17.30	65.12	43.34	57.62	29.35	8.50	3.88	2.45	1.15	
11	2.40	8.70	7.11	17.95	58.64	45.38	53.03	27.82	8.10	3.96	2.45	1.05	
12	2.45	6.93	6.12	17.43	60.85	45.89	49.63	24.93	8.00	3.73	2.50	1.10	
13	2.45	5.85	5.40	20.98	69.44	43.85	46.23	21.96	7.70	3.59	2.45	0.90	
14	3.24	4.84	5.76	20.42	71.08	41.64	40.34	20.00	7.50	3.59	2.40	1.05	
15	4.20	4.36	6.39	17.17	68.72	39.54	35.43	17.56	7.11	3.52	2.30	0.85	
16	3.73	4.12	5.76	14.08	65.48	38.42	32.85	15.64	7.11	3.52	2.20	0.20	
17	5.76	3.80	5.32	10.97	62.24	36.98	32.54	15.76	6.66	3.45	2.05	0.00	
18	6.12	3.80	5.08	9.90	57.96	33.00	45.21	16.65	6.21	3.38	1.95	0.00	
19	4.44	3.59	4.92	15.04	51.84	27.67	67.46	16.39	5.94	3.38	1.95	0.00	
20	3.31	6.48	5.16	23.71	45.72	23.87	79.10	15.88	5.67	3.38	1.75	0.00	
21	2.92	18.08	7.60	24.32	39.86	22.24	85.05	15.52	5.49	3.24	1.40	0.00	
22	2.74	18.21	10.86	24.02	37.78	21.40	87.30	15.28	5.40	3.10	1.45	0.00	
23	2.56	13.60	12.88	37.46	36.66	22.95	86.30	14.68	5.40	2.98	1.00	0.00	
24	2.98	9.80	30.26	60.00	33.30	26.45	84.05	14.08	5.32	2.98	1.00	0.70	
25	3.59	9.40	48.10	63.14	29.50	39.06	80.90	13.12	5.32	2.98	0.80	0.70	
26	3.66	10.42	44.53	55.24	27.67	67.46	77.35	12.52	5.40	2.98	0.70	0.80	
27	3.24	12.52	39.70	47.42	25.84	75.45	73.55	12.40	5.00	2.92	0.50	1.50	
28	2.92	12.29	33.61	39.22	22.52	69.80	68.72	12.07	4.92	2.80	0.50	1.50	
29	2.86	9.20	26.15	30.87	19.86	64.40	64.04	11.74	4.76	2.74		1.80	
30	3.04	8.00	18.88	24.47	17.95	63.68	59.49	11.74	4.76	2.68		1.50	
31		7.30		22.52	16.52		53.37		4.76	2.62		1.70	
TOTAL	89.21	253.05	433.91	695.89	1537.62	1292.67	1866.48	688.81	225.15	109.52	53.56	32.05	7277.91 CMSDAY
MEAN	2.97	8.16	14.46	22.45	49.60	43.09	60.21	22.96	7.26	3.53	1.91	1.03	19.94 CMS
MAX	6.12	18.21	48.10	63.14	72.79	75.45	87.30	47.25	11.63	4.44	2.56	2.40	87.30 CMS
MIN	1.75	3.10	4.92	6.66	16.52	16.13	32.54	11.74	4.76	2.62	0.50	0.00	0.00 CMS
RUNOFF	7.708	21.863	37.490	60.125	132.850	111.687	161.264	59.513	19.453	9.463	4.628	2.769	628.911 MCM

MOMENTARY PEAK 87.30 CMS, AT 180.80 M (MSL), AT 12.00 HOURS, ON OCT 22, 1981

RUNOFF YIELD 2.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 12.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ACROSS LAM PHAN, AMPHOE YANG TALAT, KALASIN.

DRAINAGE AREA — 6,565 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +134.633 M.(M.S.L.)

BENCH MARK — B.M.-R.I.D.

LOCATION — ABOUT 300 METERS FROM STAFF GAGE LINE.

ELEVATION — +142.075 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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1971-1976

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +140.41 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 103 DISCHARGE MEASUREMENTS MADE DURING 1971-1976. FLOW REGULATED BY LAM PAO DAM.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

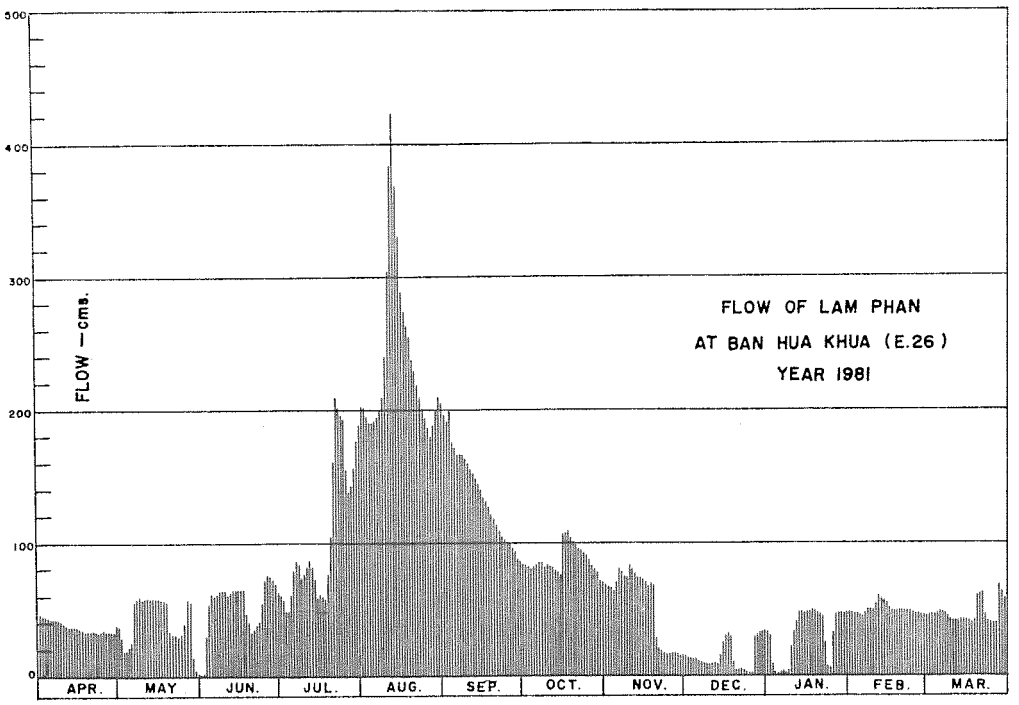
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	136.47	136.14	134.62	136.80	139.66	139.60	137.40	137.03	135.38	136.12	136.54	136.47	
2	136.43	135.73	134.61	136.72	139.64	139.54	137.40	136.98	135.37	135.88	136.52	136.49	
3	136.42	135.59	136.52	136.54	139.55	139.63	137.37	136.93	135.32	134.96	136.51	136.51	
4	136.40	135.72	136.85	136.60	139.50	139.33	137.36	136.91	135.28	134.74	136.51	136.49	
5	136.37	135.90	136.87	137.00	139.53	139.24	137.40	137.20	135.27	134.69	136.51	136.53	
6	136.36	136.72	136.83	137.45	139.58	139.17	137.42	137.33	135.24	134.70	136.47	136.53	
7	136.36	136.74	136.86	137.46	139.61	139.18	137.44	137.31	135.21	134.86	136.57	136.52	
8	136.36	136.78	136.90	137.39	139.63	139.18	137.44	137.22	135.15	134.77	136.61	136.49	
9	136.31	136.78	136.90	137.22	139.75	139.12	137.38	137.22	135.14	134.91	136.60	136.41	
10	136.27	136.77	136.90	137.31	140.12	139.04	137.38	137.38	135.13	135.92	136.58	136.34	
11	136.23	136.79	136.86	137.40	140.57	138.96	137.37	137.32	135.13	136.17	136.74	136.38	
12	136.23	136.80	136.88	137.49	140.73	138.89	137.37	137.25	135.13	136.42	136.85	136.37	
13	136.23	136.79	136.93	137.38	140.81	138.82	137.30	137.17	135.13	136.56	136.81	136.37	
14	136.23	136.79	136.95	137.12	140.65	138.74	137.24	137.14	135.55	136.50	136.76	136.37	
15	136.20	136.77	136.94	136.81	140.47	138.64	137.26	137.11	135.97	136.50	136.71	136.37	
16	136.14	136.76	136.96	136.84	140.32	138.57	138.03	137.07	136.02	136.55	136.62	136.36	
17	136.11	136.75	136.96	136.81	140.22	138.48	138.05	137.02	136.05	136.57	136.57	136.35	
18	136.10	136.74	136.45	136.75	140.17	138.39	138.03	137.05	135.94	136.56	136.57	136.35	
19	136.10	136.73	136.25	137.38	140.11	138.29	137.90	137.01	135.18	136.57	136.57	136.41	
20	136.10	136.11	136.07	138.14	140.02	138.20	137.80	135.83	134.84	136.51	136.57	136.85	
21	136.13	136.02	136.22	139.36	139.92	138.14	137.76	135.61	134.86	136.47	136.57	136.88	
22	136.13	136.02	136.25	139.74	139.84	138.05	137.67	135.56	134.86	136.44	136.57	136.88	
23	136.09	136.01	136.37	139.68	139.74	137.92	137.63	135.53	134.84	135.73	136.57	136.40	
24	136.10	136.06	136.83	139.60	139.66	137.88	137.59	135.53	134.80	135.02	136.56	136.30	
25	136.14	136.19	137.18	139.56	139.57	137.87	137.55	135.54	134.74	135.02	136.52	136.31	
26	136.11	136.68	137.23	138.99	139.47	137.81	137.46	135.53	134.67	136.36	136.51	136.30	
27	136.11	136.78	137.18	138.66	139.36	137.70	137.37	135.53	135.98	136.49	136.51	136.38	
28	136.12	136.77	137.12	138.81	139.48	137.60	137.29	135.49	136.04	136.49	136.49	137.03	
29	136.13	135.22	137.04	139.05	139.67	137.52	137.23	135.46	136.08	136.49		136.94	
30	136.25	134.73	136.85	139.39	139.73	137.46	137.12	135.42	136.09	136.50		136.80	
31		134.72		139.56	139.71		137.06		136.10	136.53		136.78	
MEAN	136.22	136.29	136.65	137.90	139.90	138.57	137.49	136.56	135.37	135.94	136.59	136.51	
MAX	136.47	136.80	137.23	139.74	140.81	139.63	138.05	137.38	136.10	136.57	136.85	137.03	140.81
MIN	136.09	134.72	134.61	136.54	139.36	137.46	137.06	135.42	134.67	134.69	136.47	136.30	134.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 140.81 M (MSL), AT 14.00 HOURS, ON AUG 13, 1981

ZERO GAGE AT BOTTOM ELEVATION 134.63 M (MSL), RIVER BED 133.73 M (MSL)

LEFT BANK ELEVATION 140.40 M (MSL)

RIGHT BANK ELEVATION 140.55 M (MSL), DRAINAGE AREA 6565 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	45.95	34.40	0.00	59.00	202.00	196.00	83.00	68.20	13.10	33.70	48.60	45.95	
2	44.55	21.90	0.00	55.80	200.00	191.80	83.00	66.20	12.90	26.40	47.80	46.65	
3	44.20	17.75	47.80	48.60	192.50	199.00	81.80	64.20	11.90	4.70	47.40	47.40	
4	43.50	21.60	61.00	51.00	189.00	177.10	81.40	63.40	11.10	0.60	47.40	46.65	
5	42.45	27.00	61.80	67.00	191.10	170.80	83.00	75.00	10.90	0.00	47.40	48.20	
6	42.10	55.80	60.20	85.00	194.60	166.20	83.80	80.20	10.30	0.00	45.95	48.20	
7	42.10	56.60	61.40	85.40	197.00	166.80	84.60	79.40	9.70	2.70	49.80	47.80	
8	42.10	58.20	63.00	82.60	199.00	166.80	84.60	75.80	8.50	1.05	51.40	46.65	
9	40.35	58.20	63.00	75.80	211.00	163.20	82.20	75.80	8.30	3.70	51.00	43.85	
10	38.95	57.80	63.00	79.40	256.00	158.40	82.20	82.20	8.10	27.60	50.20	41.40	
11	37.55	58.60	61.40	83.00	350.98	154.00	81.80	79.80	8.10	35.45	56.60	42.80	
12	37.55	59.00	62.20	86.60	398.99	150.50	81.80	77.00	8.10	44.20	61.00	42.45	
13	37.55	58.60	64.20	82.20	422.99	147.00	79.00	73.80	8.10	49.40	59.40	42.45	
14	37.55	58.60	65.00	71.80	374.99	143.00	76.60	72.60	16.75	47.00	57.40	42.45	
15	36.50	57.80	64.60	59.40	322.49	138.00	77.40	71.40	29.10	47.00	55.40	42.45	
16	34.40	57.40	65.40	60.60	288.99	134.50	108.20	69.80	30.60	49.00	51.80	42.10	
17	33.35	57.00	65.40	59.40	271.40	130.00	109.00	67.80	31.50	49.80	49.80	41.75	
18	33.00	56.60	45.25	57.00	263.50	125.50	108.20	69.00	28.20	49.40	49.80	41.75	
19	33.00	56.20	38.25	82.20	254.49	120.50	103.00	67.40	9.10	49.80	49.80	43.85	
20	33.00	33.35	32.10	113.00	240.99	116.00	99.00	24.90	2.30	47.40	49.80	61.00	
21	34.05	30.60	37.20	179.20	228.39	113.00	97.40	18.30	2.70	45.95	49.80	62.20	
22	34.05	30.60	38.25	210.00	220.00	109.00	93.80	17.00	2.70	44.90	49.80	62.20	
23	32.70	30.30	42.45	204.00	210.00	103.80	92.20	16.25	2.30	21.90	49.80	43.50	
24	33.00	31.80	60.20	196.00	202.00	102.20	90.60	16.25	1.50	5.90	49.40	40.00	
25	34.40	36.15	74.20	193.20	193.90	101.80	89.00	16.50	0.60	5.90	47.80	40.35	
26	33.35	54.20	76.20	155.50	186.90	99.40	85.40	16.25	0.00	42.10	47.40	40.00	
27	33.35	58.20	74.20	139.00	179.20	95.00	81.80	16.25	29.40	46.65	47.40	42.80	
28	33.70	57.80	71.80	146.50	187.60	91.00	78.60	15.30	31.20	46.65	46.65	68.20	
29	34.05	9.90	68.60	159.00	203.00	87.80	76.20	14.70	32.40	46.65		64.60	
30	38.25	0.45	61.00	181.30	209.00	85.40	71.80	13.90	32.70	47.00		59.00	
31		0.30		193.20	207.00		69.40		33.00	48.20		58.20	
TOTAL	1120.60	1302.70	1649.10	3401.70	7448.99	4103.50	2679.80	1564.60	445.15	970.70	1415.80	1486.85	27589.47 CMSDAY
MEAN	37.35	42.02	54.97	109.73	240.29	136.78	86.45	52.15	14.36	31.31	50.56	47.96	75.59 CMS
MAX	45.95	59.00	76.20	210.00	422.99	199.00	109.00	82.20	33.00	49.80	61.00	68.20	422.99 CMS
MIN	32.70	0.30	0.00	48.60	179.20	85.40	69.40	13.90	0.00	0.00	45.95	40.00	0.00 CMS
RUNOFF	96.820	112.553	142.482	293.907	643.593	354.542	231.534	135.181	38.461	83.868	122.325	128.464	2383.729 MCM

MOMENTARY PEAK 422.99 CMS, AT 140.81 M (MSL), AT 14.00 HOURS, ON AUG 13, 1981

RUNOFF YIELD 11.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 64.43 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ABOUT 400 METERS FROM THE BRIDGE IN THE FORESTRY OFFICE, BAN PHA NOK KHAO, AMPHOE PHU KRADUNG, LOEI.

DRAINAGE AREA — 945 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +225.00 M. (M.S.L.)

BENCH MARK — B.M.-R.I.D.

LOCATION — INFRONT OF THE LADDER OF 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

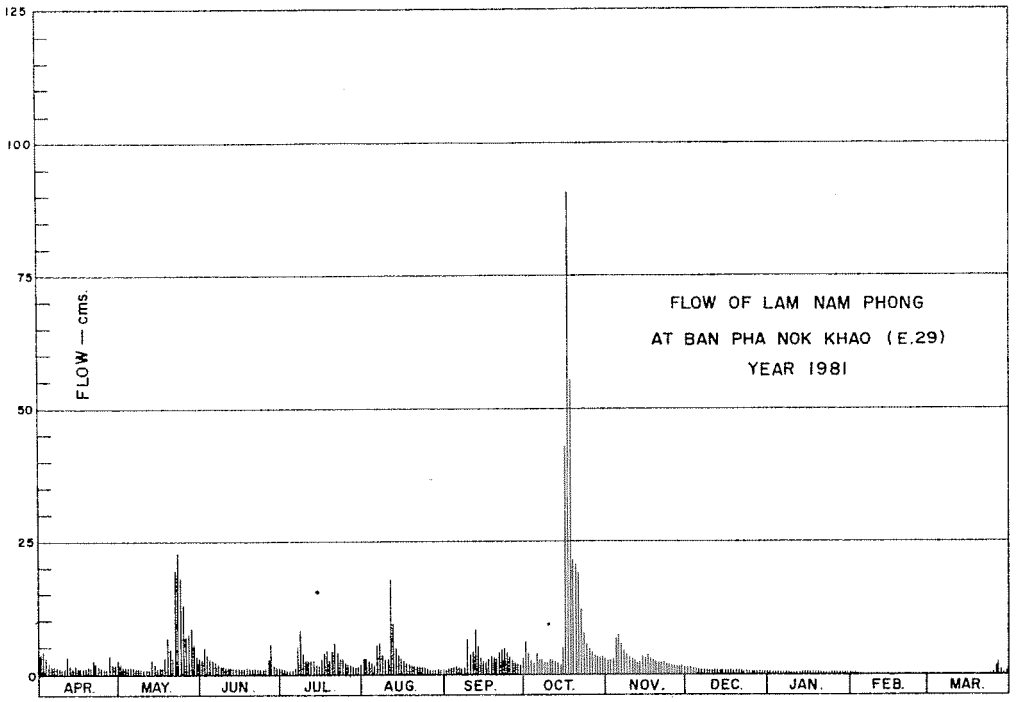
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 82 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	226.09	225.77	225.88	225.69	225.99	225.66	226.30	225.92	225.73	225.59	225.54	225.47	
2	226.11	225.70	226.19	225.66	225.96	225.67	226.02	225.92	225.70	225.59	225.54	225.47	
3	225.95	225.67	225.94	225.66	225.92	225.67	225.92	225.97	225.69	225.58	225.53	225.48	
4	225.84	225.67	225.92	225.65	225.88	225.73	225.86	226.38	225.69	225.58	225.52	225.48	
5	225.77	225.72	225.92	225.65	225.82	225.77	226.06	226.44	225.69	225.58	225.52	225.48	
6	225.72	225.70	225.89	225.73	226.26	225.71	225.91	226.30	225.68	225.58	225.52	225.49	
7	225.70	225.67	225.83	226.23	226.32	225.71	225.91	226.15	225.67	225.58	225.52	225.49	
8	225.67	225.67	225.81	226.51	226.06	225.71	225.87	226.07	225.66	225.58	225.52	225.49	
9	225.65	225.65	225.79	226.11	225.96	226.36	225.90	226.00	225.65	225.57	225.51	225.48	
10	225.66	225.65	225.74	225.96	225.95	226.08	225.96	225.94	225.64	225.57	225.51	225.48	
11	226.00	225.65	225.71	225.90	227.21	226.06	225.91	225.91	225.65	225.56	225.51	225.47	
12	225.79	225.65	225.71	225.91	226.58	226.53	225.88	225.87	225.64	225.56	225.51	225.47	
13	225.71	225.92	225.70	225.84	226.23	226.24	225.86	225.86	225.64	225.55	225.50	225.47	
14	225.81	225.75	225.70	225.81	226.07	226.01	225.80	226.00	225.64	225.56	225.50	225.47	
15	225.73	225.67	225.69	225.80	225.98	225.92	225.79	225.98	225.63	225.55	225.50	225.47	
16	225.69	225.70	225.69	225.88	225.92	225.88	228.70	226.06	225.63	225.55	225.50	225.47	
17	225.67	225.73	225.68	226.09	225.86	225.92	230.51	225.99	225.63	225.55	225.50	225.47	
18	225.65	226.00	225.71	226.15	225.83	226.02	228.82	225.95	225.62	225.55	225.49	225.47	
19	225.71	226.39	225.68	225.94	225.81	226.02	227.43	225.90	225.64	225.55	225.49	225.47	
20	225.70	226.19	225.68	226.13	225.79	226.01	227.37	225.87	225.63	225.55	225.49	225.47	
21	225.91	225.98	225.67	226.31	225.77	226.12	227.27	225.87	225.63	225.55	225.48	225.47	
22	225.83	227.30	225.66	226.12	225.75	226.19	226.80	225.85	225.62	225.54	225.48	225.47	
23	225.74	227.50	225.64	226.00	225.73	226.20	226.52	225.83	225.61	225.54	225.48	225.47	
24	225.69	227.06	225.65	225.97	225.72	226.03	226.28	225.80	225.60	225.54	225.48	225.47	
25	225.65	226.99	225.69	225.88	225.71	225.99	226.20	225.79	225.60	225.53	225.48	225.51	
26	225.66	226.40	225.86	225.83	225.69	225.90	226.12	225.78	225.60	225.53	225.48	225.90	
27	226.04	226.44	226.30	225.80	225.68	225.86	226.05	225.77	225.60	225.52	225.47	225.68	
28	225.80	226.55	225.82	225.76	225.67	225.84	226.02	225.76	225.60	225.53	225.47	225.58	
29	225.76	226.24	225.74	225.74	225.66	225.82	226.00	225.78	225.59	225.54		225.57	
30	225.90	226.06	225.70	225.73	225.66	225.81	225.97	225.74	225.59	225.54		225.61	
31		225.99		225.80	225.66		225.95		225.59	225.54		226.09	
MEAN	225.79	226.07	225.79	225.91	225.94	225.95	226.48	225.95	225.64	225.56	225.50	225.53	
MAX	226.11	227.50	226.30	226.51	227.21	226.53	230.51	226.44	225.73	225.59	225.54	226.09	230.51
MIN	225.65	225.65	225.64	225.65	225.66	225.66	225.79	225.74	225.59	225.52	225.47	225.47	225.47

ANNUAL MAX MOMENTARY GAGE HEIGHT 231.13 M (MSL), AT 24.00 HOURS, ON OCT 16, 1981
ZERO GAGE AT BOTTOM ELEVATION 225.00 M (MSL), RIVER BED 225.10 M (MSL)
LEFT BANK ELEVATION 237.82 M (MSL)
RIGHT BANK ELEVATION 238.09 M (MSL), DRAINAGE AREA 945 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.02	1.62	2.36	1.14	3.22	0.96	6.00	2.66	1.38	0.54	0.24	0.00	
2	4.19	1.20	4.91	0.96	2.98	1.02	3.46	2.66	1.20	0.54	0.24	0.00	
3	2.90	1.02	2.82	0.96	2.66	1.02	2.66	3.06	1.14	0.48	0.18	0.00	
4	2.08	1.02	2.66	0.90	2.36	1.38	2.22	6.80	1.14	0.48	0.12	0.00	
5	1.62	1.32	2.66	0.90	1.94	1.62	3.78	7.48	1.14	0.48	0.12	0.00	
6	1.32	1.20	2.43	1.38	5.60	1.26	2.58	6.00	1.08	0.48	0.12	0.00	
7	1.20	1.02	2.01	5.30	6.20	1.26	2.58	4.55	1.02	0.48	0.12	0.00	
8	1.02	1.02	1.87	8.32	3.78	1.26	2.29	3.86	0.96	0.48	0.12	0.00	
9	0.90	0.90	1.74	4.19	2.98	6.60	2.50	3.30	0.90	0.42	0.06	0.00	
10	0.96	0.90	1.44	2.98	2.90	3.94	2.98	2.82	0.84	0.42	0.06	0.00	
11	3.30	0.90	1.26	2.50	17.96	3.78	2.58	2.58	0.90	0.36	0.06	0.00	
12	1.74	0.90	1.26	2.58	9.16	8.56	2.36	2.29	0.84	0.36	0.06	0.00	
13	1.26	2.66	1.20	2.08	5.30	5.40	2.22	2.22	0.84	0.30	0.00	0.00	
14	1.87	1.50	1.20	1.87	3.86	3.38	1.80	3.30	0.84	0.36	0.00	0.00	
15	1.38	1.02	1.14	1.80	3.14	2.66	1.74	3.14	0.78	0.30	0.00	0.00	
16	1.14	1.20	1.14	2.36	2.66	2.36	46.70	3.78	0.78	0.30	0.00	0.00	
17	1.02	1.38	1.08	4.02	2.22	2.66	90.57	3.22	0.78	0.30	0.00	0.00	
18	0.90	3.30	1.26	4.55	2.01	3.46	49.46	2.90	0.72	0.30	0.00	0.00	
19	1.26	6.90	1.08	2.82	1.87	3.46	21.54	2.50	0.84	0.30	0.00	0.00	
20	1.20	4.91	1.08	4.37	1.74	3.38	20.52	2.29	0.78	0.30	0.00	0.00	
21	2.58	3.14	1.02	6.10	1.62	4.28	18.92	2.29	0.78	0.30	0.00	0.00	
22	2.01	19.40	0.96	4.28	1.50	4.91	12.00	2.15	0.72	0.24	0.00	0.00	
23	1.44	22.80	0.84	3.30	1.38	5.00	8.44	2.01	0.66	0.24	0.00	0.00	
24	1.14	15.70	0.90	3.06	1.32	3.54	5.80	1.80	0.60	0.24	0.00	0.00	
25	0.90	14.66	1.14	2.36	1.26	3.22	5.00	1.74	0.60	0.18	0.00	0.06	
26	0.96	7.00	2.22	2.01	1.14	2.50	4.28	1.68	0.60	0.18	0.00	2.50	
27	3.62	7.48	6.00	1.80	1.08	2.22	3.70	1.62	0.60	0.12	0.00	1.08	
28	1.80	8.80	1.94	1.56	1.02	2.08	3.46	1.56	0.60	0.18	0.00	0.48	
29	1.56	5.40	1.44	1.44	0.96	1.94	3.30	1.68	0.54	0.24		0.42	
30	2.50	3.78	1.20	1.38	0.96	1.87	3.06	1.44	0.54	0.24		0.66	
31		3.22		1.80	0.96		2.90		0.54	0.24		4.02	
TOTAL	53.79	147.27	54.26	85.07	97.74	90.98	341.40	89.38	25.68	10.38	1.50	9.22	1006.67 CMSDAY
MEAN	1.79	4.75	1.81	2.74	3.15	3.03	11.01	2.98	0.83	0.33	0.05	0.30	2.76 CMS
MAX	4.19	22.80	6.00	8.32	17.96	8.56	90.57	7.48	1.38	0.54	0.24	4.02	90.57 CMS
MIN	0.90	0.90	0.84	0.90	0.96	0.96	1.74	1.44	0.54	0.12	0.00	0.00	0.00 CMS
RUNOFF	4.647	12.724	4.688	7.350	8.445	7.861	29.497	7.722	2.219	0.897	0.130	0.797	86.976 MCM

MOMENTARY PEAK 107.31 CMS, AT 231.13 M (MSL), AT 24.00 HOURS, ON OCT 16, 1981

RUNOFF YIELD 2.92 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 113.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +198.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE LADDER OF 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 — 1966 TO DATE.

RATED BY FLOAT —

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

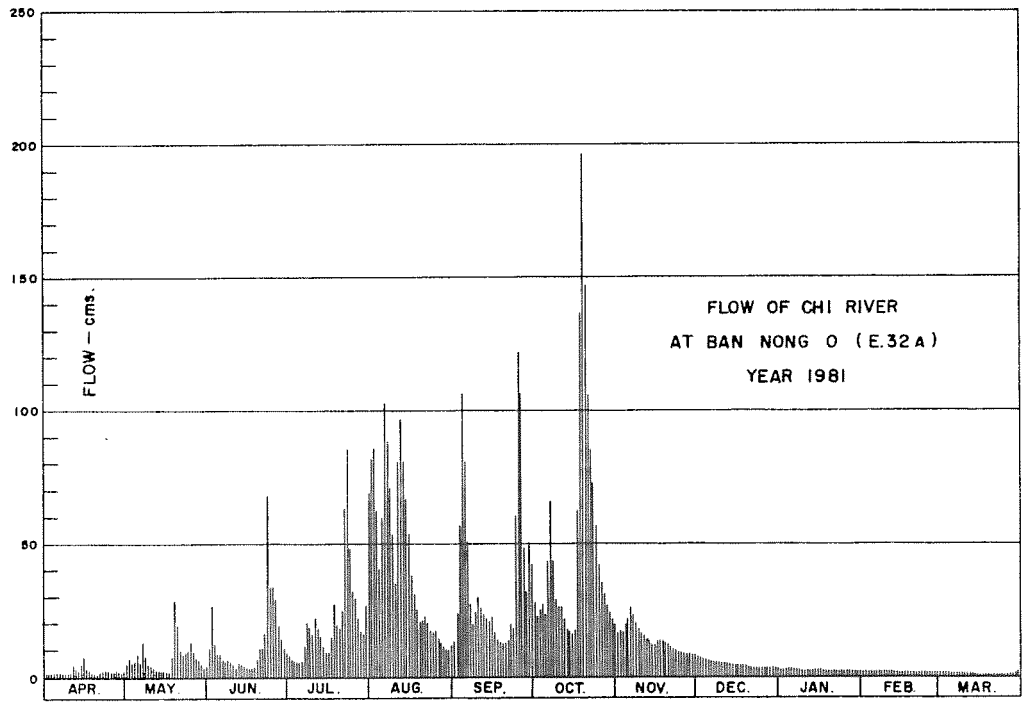
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 166 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	198.73	199.06	199.44	199.24	201.94	199.50	200.09	199.62	199.23	198.92	198.85	198.76	
2	198.75	199.20	200.03	199.18	202.08	199.89	199.86	199.66	199.22	198.92	198.83	198.76	
3	198.76	199.10	199.47	199.13	201.10	201.83	199.97	199.64	199.20	198.93	198.84	198.79	
4	198.79	199.10	199.26	199.10	200.50	202.73	200.06	199.74	199.18	198.93	198.84	198.77	
5	198.79	199.27	199.27	199.09	201.40	201.96	199.88	199.91	199.17	198.93	198.84	198.76	
6	198.80	199.12	199.16	199.10	202.61	200.59	201.00	200.01	199.16	198.93	198.84	198.76	
7	198.79	199.48	199.13	199.39	202.07	199.96	201.42	199.88	199.14	198.92	198.84	198.76	
8	198.74	199.28	199.17	199.79	201.43	199.73	200.27	199.76	199.13	198.91	198.84	198.76	
9	198.73	199.12	199.08	199.68	200.79	200.01	200.05	199.67	199.12	198.90	198.85	198.75	
10	198.80	199.04	199.02	199.58	200.37	200.14	200.01	199.62	199.10	198.90	198.85	198.73	
11	199.05	198.96	198.98	199.85	202.22	199.99	200.03	199.56	199.09	198.90	198.85	198.72	
12	198.94	198.91	199.09	199.70	202.44	199.90	199.83	199.52	199.08	198.89	198.85	198.72	
13	198.83	198.91	199.08	199.56	201.95	199.82	199.68	199.49	199.07	198.90	198.82	198.71	
14	199.07	198.88	199.03	199.44	201.38	199.77	199.65	199.46	199.06	198.92	198.82	198.69	
15	199.19	198.86	198.99	199.32	201.12	199.85	199.62	199.45	199.05	198.92	198.82	198.69	
16	198.95	198.83	198.98	199.28	200.54	199.65	199.67	199.52	199.03	198.91	198.82	198.68	
17	198.86	198.80	198.95	199.46	200.17	199.53	201.47	199.51	199.03	198.90	198.82	198.68	
18	198.80	199.19	198.98	200.06	199.94	199.48	203.64	199.51	199.04	198.89	198.82	198.68	
19	198.77	200.11	199.18	199.74	199.78	199.46	205.42	199.48	199.03	198.88	198.82	198.68	
20	198.75	199.62	199.39	199.67	199.80	199.47	204.69	199.45	199.00	198.87	198.82	198.68	
21	198.83	199.36	199.39	199.99	199.85	199.49	202.83	199.42	198.98	198.86	198.82	198.69	
22	198.89	199.25	199.80	201.30	199.73	199.74	201.88	199.38	198.97	198.86	198.80	198.70	
23	198.88	199.29	201.51	202.08	199.63	199.68	201.38	199.35	198.96	198.87	198.79	198.70	
24	198.85	199.34	200.27	200.70	199.63	201.73	200.92	199.33	198.96	198.85	198.78	198.69	
25	198.83	199.50	200.29	200.24	199.66	203.21	200.55	199.31	198.96	198.84	198.78	198.68	
26	198.82	199.38	200.07	200.14	199.53	202.18	200.32	199.29	198.95	198.85	198.77	198.71	
27	198.87	199.17	199.76	199.81	199.46	200.45	200.16	199.29	198.95	198.85	198.77	198.71	
28	198.85	199.18	199.53	199.65	199.41	200.24	200.02	199.28	198.95	198.84	198.77	198.70	
29	198.80	199.09	199.40	199.61	199.37	200.89	199.94	199.29	198.95	198.85		198.73	
30	198.83	198.99	199.34	199.95	199.35	200.53	199.85	199.26	198.94	198.85		198.80	
31		199.00		201.22	199.45		199.73		198.93	198.85		198.88	
MEAN	198.84	199.17	199.43	199.81	200.60	200.38	200.77	199.52	199.05	198.89	198.82	198.73	
MAX	199.19	200.11	201.51	202.08	202.61	203.21	205.42	200.01	199.23	198.93	198.85	198.88	205.42
MIN	198.73	198.80	198.95	199.09	199.35	199.46	199.62	199.26	198.93	198.84	198.77	198.68	198.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 205.56 M (MSL), AT 12.00 HOURS, ON OCT 19, 1981
ZERO GAGE AT BOTTOM ELEVATION 198.00 M (MSL), RIVER BED 197.70 M (MSL)
LEFT BANK ELEVATION 210.77 M (MSL)
RIGHT BANK ELEVATION 211.55 M (MSL), DRAINAGE AREA 2905 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.17	4.86	12.12	7.90	81.44	13.50	28.39	16.50	7.70	2.94	2.25	1.44	
2	1.35	7.10	26.80	6.78	85.78	23.25	22.50	17.50	7.50	2.94	2.07	1.44	
3	1.44	5.50	12.81	5.98	56.65	78.03	25.25	17.00	7.10	3.06	2.16	1.71	
4	1.71	5.50	8.30	5.50	39.30	106.16	27.60	19.50	6.78	3.06	2.16	1.53	
5	1.71	8.50	8.50	5.34	65.32	82.06	23.00	23.75	6.62	3.06	2.16	1.44	
6	1.80	5.82	6.46	5.50	102.32	41.90	53.75	26.27	6.46	3.06	2.16	1.44	
7	1.71	13.04	5.98	10.99	85.47	25.00	65.90	23.00	6.14	2.94	2.16	1.44	
8	1.26	8.70	6.62	20.75	66.19	19.25	33.18	20.00	5.98	2.82	2.16	1.44	
9	1.17	5.82	5.18	18.00	47.68	26.27	27.33	17.75	5.82	2.70	2.25	1.35	
10	1.80	4.54	4.22	15.50	35.84	29.72	26.27	16.50	5.50	2.70	2.25	1.17	
11	4.70	3.42	3.66	22.25	90.12	25.75	26.80	15.00	5.34	2.70	2.25	1.08	
12	3.18	2.82	5.34	18.50	96.94	23.50	21.75	14.00	5.18	2.61	2.25	1.08	
13	2.07	2.82	5.18	15.00	81.75	21.50	18.00	13.27	5.02	2.70	1.98	0.99	
14	5.02	2.52	4.38	12.12	64.74	20.25	17.25	12.58	4.86	2.94	1.98	0.81	
15	6.94	2.34	3.78	9.52	57.22	22.25	16.50	12.35	4.70	2.94	1.98	0.81	
16	3.30	2.07	3.66	8.70	40.46	17.25	17.75	14.00	4.38	2.82	1.98	0.72	
17	2.34	1.80	3.30	12.58	30.52	14.25	67.34	13.75	4.38	2.70	1.98	0.72	
18	1.80	6.94	3.66	27.60	24.50	13.04	135.62	13.75	4.54	2.61	1.98	0.72	
19	1.53	28.93	6.78	19.50	20.50	12.58	196.08	13.04	4.38	2.52	1.98	0.72	
20	1.35	16.50	10.99	17.75	21.00	12.81	171.26	12.35	3.90	2.43	1.98	0.72	
21	2.07	10.36	10.99	25.75	22.25	13.27	109.36	11.66	3.66	2.34	1.98	0.81	
22	2.61	8.10	21.00	62.43	19.25	19.50	79.58	10.78	3.54	2.34	1.80	0.90	
23	2.52	8.90	68.50	85.78	16.75	18.00	64.74	10.15	3.42	2.43	1.71	0.90	
24	2.25	9.94	33.18	45.08	16.75	75.00	51.44	9.73	3.42	2.25	1.62	0.81	
25	2.07	13.50	33.71	32.38	17.50	121.52	40.75	9.31	3.42	2.16	1.62	0.72	
26	1.98	10.78	27.86	29.72	14.25	88.88	34.51	8.90	3.30	2.25	1.53	0.99	
27	2.43	6.62	20.00	21.25	12.58	37.97	30.26	8.90	3.30	2.25	1.53	0.99	
28	2.25	6.78	14.25	17.25	11.43	32.38	26.53	8.70	3.30	2.16	1.53	0.90	
29	1.80	5.34	11.20	16.25	10.57	50.57	24.50	8.90	3.30	2.25		1.17	
30	2.07	3.78	9.94	24.75	10.15	40.17	22.25	8.30	3.18	2.25		1.80	
31		3.90		60.11	12.35		19.25		3.06	2.25		2.52	
TOTAL	69.40	227.54	398.35	686.51	1357.57	1125.58	1524.69	427.19	149.18	81.18	55.44	35.28	6137.90 CMSDAY
MEAN	2.31	7.34	13.28	22.15	43.79	37.52	49.18	14.24	4.81	2.62	1.98	1.14	16.82 CMS
MAX	6.94	28.93	68.50	85.78	102.32	121.52	196.08	26.27	7.70	3.06	2.25	2.52	196.08 CMS
MIN	1.17	1.80	3.30	5.34	10.15	12.58	16.50	8.30	3.06	2.16	1.53	0.72	0.72 CMS
RUNOFF	5.996	19.659	34.417	59.314	117.294	97.250	131.733	36.909	12.889	7.014	4.790	3.048	530.315 MCM

MOMENTARY PEAK 200.84 CMS, AT 205.56 M (MSL), AT 12.00 HOURS, ON OCT 19, 1981

RUNOFF YIELD 5.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 69.14 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

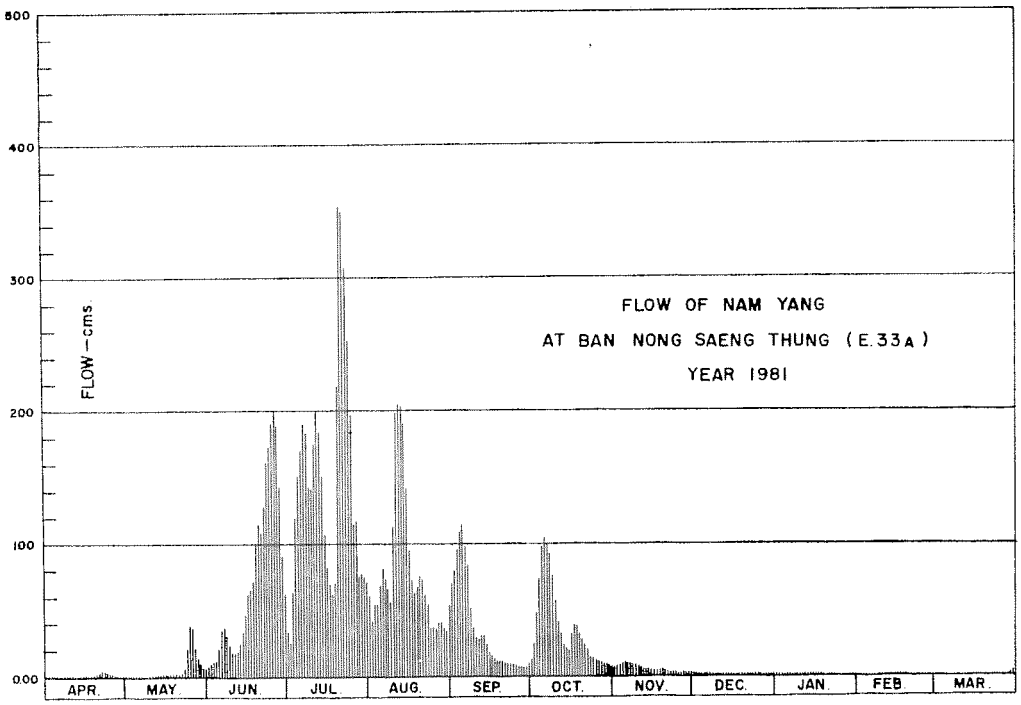
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +143.31 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.78	134.73	135.37	136.63	137.45	137.63	135.60	135.30	134.86	134.74	134.62	134.59	
2	134.78	134.75	135.45	136.22	136.81	137.99	136.10	135.33	134.85	134.72	134.61	134.60	
3	134.77	134.72	135.48	137.75	137.23	138.33	136.90	135.35	134.82	134.71	134.62	134.59	
4	134.74	134.69	135.59	139.61	137.21	138.77	137.81	135.41	134.82	134.73	134.61	134.59	
5	134.72	134.67	136.11	140.12	137.77	138.95	138.54	135.52	134.81	134.73	134.60	134.57	
6	134.69	134.70	136.57	140.48	138.04	138.47	138.69	135.50	134.81	134.73	134.60	134.56	
7	134.66	134.66	136.64	140.78	137.81	137.77	138.55	135.46	134.79	134.73	134.63	134.56	
8	134.66	134.65	136.43	140.66	137.49	137.17	138.31	135.40	134.79	134.71	134.65	134.57	
9	134.80	134.64	136.23	139.73	137.21	136.72	137.83	135.36	134.79	134.73	134.68	134.55	
10	134.76	134.66	135.95	139.46	139.44	136.39	137.30	135.28	134.79	134.73	134.72	134.55	
11	134.70	134.66	135.82	140.56	140.95	136.31	136.79	135.22	134.80	134.73	134.74	134.54	
12	134.73	134.70	135.94	140.96	141.07	136.43	136.45	135.19	134.78	134.71	134.73	134.55	
13	134.72	134.65	136.08	140.65	141.03	136.47	136.23	135.15	134.78	134.69	134.73	134.53	
14	134.74	134.75	136.56	139.77	140.63	136.23	136.03	135.14	134.76	134.68	134.75	134.53	
15	134.70	134.78	137.09	138.68	139.50	135.96	135.95	135.15	134.78	134.67	134.79	134.53	
16	134.68	134.80	137.44	138.10	138.40	135.79	136.45	135.10	134.76	134.69	134.76	134.52	
17	134.68	134.77	137.59	137.69	137.81	135.67	136.73	135.09	134.78	134.67	134.73	134.51	
18	134.69	134.75	137.77	137.47	137.46	135.56	136.67	135.07	134.76	134.67	134.71	134.51	
19	134.75	134.84	138.51	137.73	137.72	135.55	136.49	135.12	134.74	134.66	134.69	134.51	
20	134.81	134.83	138.97	140.93	137.95	135.52	136.29	135.11	134.72	134.65	134.66	134.52	
21	134.98	134.81	138.77	143.14	137.81	135.50	136.11	135.03	134.72	134.65	134.63	134.51	
22	135.07	134.90	139.30	143.08	137.41	135.43	135.94	135.00	134.75	134.67	134.64	134.52	
23	135.06	135.25	140.12	142.57	137.23	135.39	135.79	134.97	134.78	134.64	134.64	134.52	
24	135.00	136.03	140.54	141.88	136.64	135.37	135.74	134.97	134.73	134.63	134.63	134.50	
25	134.88	136.70	140.89	140.62	136.68	135.32	135.58	134.92	134.73	134.65	134.60	134.49	
26	134.88	136.65	140.97	139.06	136.64	135.31	135.53	134.92	134.75	134.66	134.61	134.49	
27	134.83	136.10	140.64	138.30	136.78	135.30	135.48	134.92	134.74	134.65	134.63	134.49	
28	134.77	135.75	139.48	137.90	136.79	135.29	135.44	134.92	134.76	134.63	134.60	134.57	
29	134.73	135.45	138.09	137.96	136.62	135.24	135.41	134.92	134.74	134.63		134.88	
30	134.71	135.26	137.29	137.91	136.59	135.45	135.35	134.91	134.72	134.63		135.07	
31		135.20		137.73	137.12		135.32		134.74	134.63		134.96	
MEAN	134.78	135.05	137.59	139.49	137.91	136.38	136.50	135.16	134.77	134.68	134.66	134.58	
MAX	135.07	136.70	140.97	143.14	141.07	138.95	138.69	135.52	134.86	134.74	134.79	135.07	143.14
MIN	134.66	134.64	135.37	136.22	136.59	135.24	135.32	134.91	134.72	134.63	134.60	134.49	134.49

ANNUAL MAX MOMENTARY GAGE HEIGHT 143.32 M (MSL), AT 17.00 HOURS, ON JUL 21, 1981
ZERO GAGE AT BOTTOM ELEVATION 133.97 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 143.30 M (MSL)
RIGHT BANK ELEVATION 142.50 M (MSL), DRAINAGE AREA 2599 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.68	1.38	8.72	35.91	60.81	66.27	12.40	7.60	2.16	1.44	0.72	0.56	
2	1.68	1.50	10.00	25.48	41.38	78.84	22.80	8.08	2.10	1.32	0.66	0.60	
3	1.62	1.32	10.48	70.20	54.13	91.08	44.11	8.40	1.92	1.26	0.72	0.56	
4	1.44	1.14	12.24	138.40	53.52	106.92	72.36	9.36	1.92	1.38	0.66	0.56	
5	1.32	1.02	23.02	158.80	70.92	113.40	98.64	11.12	1.86	1.38	0.60	0.48	
6	1.14	1.20	34.22	175.04	80.64	96.12	104.04	10.80	1.86	1.38	0.60	0.44	
7	0.96	0.96	36.21	189.44	72.36	70.92	99.00	10.16	1.74	1.38	0.78	0.44	
8	0.96	0.90	30.58	183.68	62.02	52.31	90.36	9.20	1.74	1.26	0.90	0.48	
9	1.80	0.84	25.72	143.20	53.52	38.64	73.08	8.56	1.74	1.38	1.08	0.40	
10	1.56	0.96	19.50	132.40	131.60	29.56	56.25	7.28	1.74	1.38	1.32	0.40	
11	1.20	0.96	16.64	178.88	197.90	27.64	40.77	6.32	1.80	1.38	1.44	0.36	
12	1.38	1.20	19.28	198.44	204.66	30.58	31.10	5.88	1.68	1.26	1.38	0.40	
13	1.32	0.90	22.36	183.20	202.34	31.62	25.72	5.40	1.68	1.14	1.38	0.32	
14	1.44	1.50	33.96	144.80	182.24	25.72	21.26	5.28	1.56	1.08	1.50	0.32	
15	1.20	1.68	49.88	103.68	134.00	19.72	19.50	5.40	1.68	1.02	1.74	0.32	
16	1.08	1.80	60.50	82.80	93.60	15.98	31.10	4.80	1.56	1.14	1.56	0.28	
17	1.08	1.62	65.06	68.10	72.36	13.52	38.95	4.68	1.68	1.02	1.38	0.24	
18	1.14	1.50	70.92	61.42	61.11	11.76	37.12	4.44	1.56	1.02	1.26	0.24	
19	1.50	2.04	97.56	69.48	69.12	11.60	32.14	5.04	1.44	0.96	1.14	0.24	
20	1.86	1.98	114.12	196.82	77.40	11.12	27.16	4.92	1.32	0.90	0.96	0.28	
21	3.36	1.86	106.92	352.00	72.36	10.80	23.02	3.96	1.32	0.90	0.78	0.24	
22	4.44	2.40	126.00	346.72	59.59	9.68	19.28	3.60	1.50	1.02	0.84	0.28	
23	4.32	6.80	158.80	305.60	54.13	9.04	15.98	3.24	1.68	0.84	0.84	0.28	
24	3.60	21.26	177.92	253.60	36.21	8.72	14.88	3.24	1.38	0.78	0.78	0.20	
25	2.28	38.04	194.72	181.76	37.43	7.92	12.08	2.64	1.38	0.90	0.60	0.18	
26	2.28	36.52	198.98	117.36	36.21	7.76	11.28	2.64	1.50	0.96	0.66	0.18	
27	1.98	22.80	182.72	90.00	40.47	7.60	10.48	2.64	1.44	0.90	0.78	0.18	
28	1.62	15.10	133.20	75.60	40.77	7.44	9.84	2.64	1.56	0.78	0.60	0.48	
29	1.38	10.00	82.44	77.76	35.61	6.64	9.36	2.64	1.44	0.78		2.28	
30	1.26	6.96	55.95	75.96	34.74	10.00	8.40	2.52	1.32	0.78		4.44	
31		6.00		69.48	50.79		7.92		1.44	0.78		3.12	
TOTAL	53.88	194.14	2178.62	4486.01	2473.94	1028.92	1120.38	172.48	50.70	33.90	27.66	19.78	11840.39 CMSDAY
MEAN	1.80	6.26	72.62	144.71	79.80	34.30	36.14	5.75	1.64	1.09	0.99	0.64	32.44 CMS
MAX	4.44	38.04	198.98	352.00	204.66	113.40	104.04	11.12	2.16	1.44	1.74	4.44	352.00 CMS
MIN	0.96	0.84	8.72	25.48	34.74	6.64	7.92	2.52	1.32	0.78	0.60	0.18	0.18 CMS
RUNOFF	4.655	16.774	188.233	387.591	213.748	88.899	96.801	14.902	4.380	2.929	2.390	1.709	1023.009 YCM

MOMENTARY PEAK 368.20 CMS, AT 143.32 M (MSL), AT 17.00 HOURS, ON JUL 21, 1981

RUNOFF YIELD 12.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 141.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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, AMPHOE CHATTURAT, CHAIYAPHUM.

DRAINAGE AREA — 422 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +211.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF 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 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1973 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 78 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

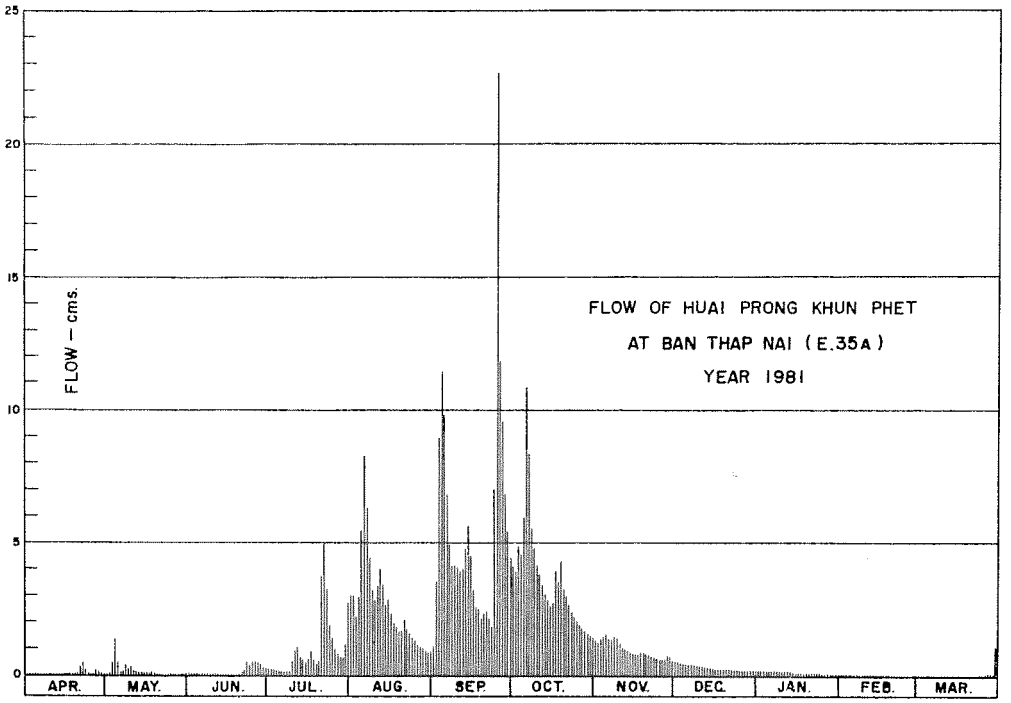
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	212.03	212.08	212.12	212.23	212.97	212.56	213.13	212.61	212.35	212.14	212.09	211.93	
2	212.03	212.08	212.12	212.21	212.97	212.98	213.11	212.59	212.33	212.14	212.08	211.92	
3	212.01	212.38	212.12	212.18	212.83	213.77	213.24	212.62	212.31	212.13	212.08	211.91	
4	212.00	212.62	212.14	212.17	212.96	214.00	213.20	212.65	212.30	212.14	212.08	211.90	
5	212.00	212.24	212.14	212.16	213.56	213.78	213.40	212.67	212.29	212.14	212.08	211.89	
6	212.00	212.13	212.11	212.15	213.66	213.43	213.94	212.64	212.28	212.14	212.08	211.89	
7	212.00	212.13	212.10	212.15	213.37	213.25	213.46	212.61	212.27	212.13	212.08	211.88	
8	211.99	212.30	212.09	212.14	213.19	213.14	213.27	212.65	212.27	212.13	212.08	211.87	
9	211.98	212.19	212.09	212.14	213.03	213.15	213.20	212.63	212.26	212.13	212.07	211.86	
10	211.97	212.26	212.08	212.34	212.95	213.13	213.13	212.57	212.25	212.12	212.07	211.85	
11	211.97	212.19	212.07	212.51	213.01	213.12	213.09	212.53	212.24	212.12	212.07	211.84	
12	211.97	212.14	212.06	212.54	213.13	213.12	213.02	212.51	212.24	212.12	212.07	211.84	
13	211.97	212.13	212.06	212.42	213.01	213.23	212.98	212.50	212.24	212.12	212.05	211.83	
14	211.99	212.11	212.06	212.36	212.91	213.34	212.94	212.48	212.22	212.11	212.04	211.82	
15	211.99	212.11	212.05	212.32	212.93	213.16	212.89	212.47	212.22	212.10	212.03	211.81	
16	212.08	212.10	212.05	212.37	212.84	212.99	212.89	212.47	212.21	212.10	212.03	211.80	
17	212.08	212.10	212.05	212.51	212.78	212.90	213.12	212.46	212.20	212.09	212.00	211.78	
18	212.07	212.16	212.04	212.36	212.74	212.88	213.03	212.48	212.18	212.10	211.98	211.77	
19	212.07	212.12	212.08	212.31	212.70	212.81	213.17	212.47	212.18	212.10	211.97	211.77	
20	212.06	212.09	212.11	212.35	212.66	212.84	213.02	212.47	212.18	212.10	211.95	211.77	
21	212.27	212.09	212.11	213.26	212.80	212.87	212.97	212.44	212.17	212.10	211.95	211.77	
22	212.32	212.07	212.18	213.23	212.72	212.78	212.91	212.43	212.17	212.10	211.95	211.77	
23	212.17	212.07	212.33	212.93	212.67	212.73	212.86	212.41	212.17	212.10	211.95	211.76	
24	212.11	212.07	212.26	212.76	212.63	213.82	212.82	212.40	212.17	212.10	211.96	211.76	
25	212.09	212.10	212.35	212.63	212.60	215.03	212.78	212.39	212.16	212.10	211.99	211.75	
26	212.08	212.09	212.35	212.54	212.57	214.01	212.74	212.39	212.15	212.09	212.00	212.00	
27	212.17	212.07	212.34	212.49	212.54	213.65	212.72	212.38	212.15	212.08	211.96	212.10	
28	212.13	212.05	212.29	212.44	212.52	213.40	212.70	212.42	212.15	212.09	211.94	212.08	
29	212.11	212.04	212.23	212.41	212.50	213.29	212.68	212.43	212.14	212.09		212.06	
30	212.08	212.04	212.23	212.43	212.47	213.21	212.65	212.37	212.14	212.08		212.67	
31		212.10		212.92	212.49		212.64		212.14	212.09		212.70	
MEAN	212.06	212.14	212.15	212.45	212.86	213.28	213.02	212.50	212.22	212.11	212.02	211.91	
MAX	212.32	212.62	212.35	213.26	213.66	215.03	213.94	212.67	212.35	212.14	212.09	212.70	215.03
MIN	211.97	212.04	212.04	212.14	212.47	212.56	212.64	212.37	212.14	212.08	211.94	211.75	211.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 215.33 M (MSL), AT 9.00 HOURS, ON SEP 25, 1981

ZERO GAGE AT BOTTOM ELEVATION 211.00 M (MSL), RIVER BED 211.44 M (MSL)

LEFT BANK ELEVATION 219.50 M (MSL)

RIGHT BANK ELEVATION 220.09 M (MSL), DRAINAGE AREA 422 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.08	0.13	0.31	3.01	1.16	4.01	1.34	0.55	0.16	0.09	0.01	
2	0.04	0.08	0.13	0.27	3.01	3.06	3.87	1.27	0.51	0.16	0.08	0.00	
3	0.03	0.61	0.13	0.22	2.25	9.28	4.82	1.38	0.47	0.14	0.08	0.00	
4	0.02	1.38	0.16	0.21	2.95	11.43	4.50	1.49	0.45	0.16	0.08	0.00	
5	0.02	0.33	0.16	0.19	7.42	9.37	6.10	1.57	0.43	0.16	0.08	0.00	
6	0.02	0.14	0.12	0.18	8.29	6.35	10.85	1.45	0.41	0.16	0.08	0.00	
7	0.02	0.14	0.10	0.18	5.86	4.90	6.59	1.34	0.39	0.14	0.08	0.00	
8	0.02	0.45	0.09	0.16	4.43	4.08	5.06	1.49	0.39	0.14	0.08	0.00	
9	0.02	0.23	0.09	0.16	3.37	4.15	4.50	1.41	0.37	0.14	0.08	0.00	
10	0.01	0.37	0.08	0.53	2.89	4.01	4.01	1.19	0.35	0.13	0.08	0.00	
11	0.01	0.23	0.08	0.98	3.24	3.94	3.74	1.06	0.33	0.13	0.08	0.00	
12	0.01	0.16	0.07	1.09	4.01	3.94	3.30	0.98	0.33	0.13	0.08	0.00	
13	0.01	0.14	0.07	0.71	3.24	4.74	3.06	0.95	0.33	0.13	0.06	0.00	
14	0.02	0.12	0.07	0.57	2.66	5.62	2.83	0.89	0.29	0.12	0.05	0.00	
15	0.02	0.12	0.06	0.49	2.77	4.22	2.55	0.86	0.29	0.10	0.04	0.00	
16	0.08	0.10	0.06	0.59	2.30	3.12	2.55	0.86	0.27	0.10	0.04	0.00	
17	0.08	0.10	0.06	0.98	2.02	2.60	3.94	0.83	0.25	0.09	0.02	0.00	
18	0.08	0.19	0.05	0.57	1.85	2.50	3.37	0.89	0.22	0.10	0.02	0.00	
19	0.08	0.13	0.08	0.47	1.68	2.15	4.29	0.86	0.22	0.10	0.01	0.00	
20	0.07	0.09	0.12	0.55	1.53	2.30	3.30	0.86	0.22	0.10	0.01	0.00	
21	0.39	0.09	0.12	4.98	2.10	2.45	3.01	0.77	0.21	0.10	0.01	0.00	
22	0.49	0.08	0.22	4.74	1.76	2.02	2.66	0.74	0.21	0.10	0.01	0.00	
23	0.21	0.08	0.51	2.77	1.57	1.81	2.40	0.68	0.21	0.10	0.01	0.00	
24	0.12	0.08	0.37	1.93	1.41	9.73	2.20	0.65	0.21	0.10	0.01	0.00	
25	0.09	0.10	0.55	1.41	1.30	22.66	2.02	0.63	0.19	0.10	0.02	0.00	
26	0.08	0.09	0.55	1.09	1.19	11.53	1.85	0.63	0.18	0.09	0.02	0.02	
27	0.21	0.08	0.53	0.92	1.09	8.21	1.76	0.61	0.18	0.08	0.01	0.10	
28	0.14	0.06	0.43	0.77	1.02	6.10	1.68	0.71	0.18	0.09	0.01	0.08	
29	0.12	0.05	0.31	0.68	0.95	5.22	1.60	0.74	0.16	0.09		0.07	
30	0.08	0.05	0.31	0.74	0.86	4.58	1.49	0.59	0.16	0.08		1.57	
31		0.10		2.72	0.92		1.45		0.16	0.09		1.68	
TOTAL	2.63	6.05	5.81	32.16	82.95	167.23	109.36	29.72	9.12	3.61	1.32	3.53	453.49 CMSDAY
MEAN	0.09	0.20	0.19	1.04	2.68	5.57	3.53	0.99	0.29	0.12	0.05	0.11	1.24 CMS
MAX	0.49	1.38	0.55	4.98	8.29	22.66	10.85	1.57	0.55	0.16	0.09	1.68	22.66 CMS
MIN	0.01	0.05	0.05	0.16	0.86	1.16	1.45	0.59	0.16	0.08	0.01	0.00	0.00 CMS
RUNOFF	0.227	0.523	0.502	2.779	7.167	14.449	9.449	2.568	0.788	0.312	0.114	0.305	39.181 MCM

MOMENTARY PEAK 26.29 CMS, AT 215.33 M (MSL), AT 9.00 HOURS, ON SEP 25, 1981

RUNOFF YIELD 2.94 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.30 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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, AMPHOE CHATTURAT, CHAIYAPHUM.

DRAINAGE AREA — 290 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +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 — 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

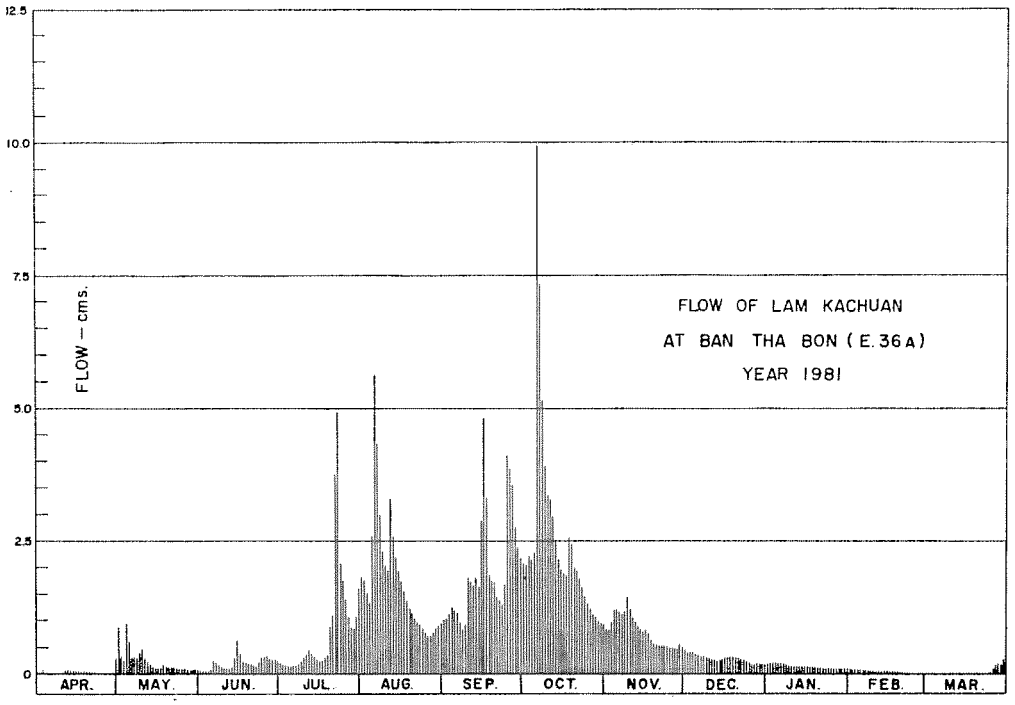
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 84 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.06	213.44	213.12	213.23	213.59	213.46	213.62	213.43	213.33	213.23	213.16	213.00	
2	213.05	213.29	213.10	213.21	213.58	213.46	213.62	213.43	213.32	213.23	213.15	212.98	
3	213.03	213.25	213.09	213.21	213.53	213.48	213.64	213.45	213.32	213.24	213.14	212.98	
4	213.03	213.45	213.13	213.21	213.50	213.50	213.63	213.49	213.32	213.24	213.14	212.98	
5	213.01	213.39	213.13	213.21	213.75	213.49	213.63	213.49	213.31	213.23	213.13	212.97	
6	213.01	213.29	213.26	213.22	213.98	213.48	214.32	213.49	213.30	213.23	213.12	212.96	
7	213.01	213.29	213.24	213.22	213.79	213.46	214.07	213.47	213.29	213.23	213.12	212.96	
8	213.01	213.27	213.22	213.23	213.72	213.43	213.89	213.48	213.29	213.22	213.12	212.96	
9	213.00	213.32	213.20	213.27	213.65	213.44	213.81	213.53	213.28	213.21	213.11	212.94	
10	213.12	213.35	213.18	213.30	213.61	213.59	213.76	213.48	213.28	213.21	213.08	212.94	
11	213.14	213.28	213.17	213.30	213.61	213.58	213.76	213.47	213.27	213.21	213.06	212.95	
12	213.14	213.25	213.16	213.34	213.76	213.56	213.70	213.45	213.26	213.21	213.05	212.95	
13	213.14	213.22	213.20	213.31	213.65	213.59	213.67	213.44	213.26	213.20	213.06	212.94	
14	213.13	213.21	213.31	213.29	213.63	213.56	213.62	213.43	213.26	213.20	213.12	212.94	
15	213.11	213.20	213.39	213.27	213.60	213.71	213.61	213.42	213.26	213.20	213.13	212.93	
16	213.08	213.18	213.31	213.25	213.56	213.91	213.60	213.43	213.28	213.20	213.12	212.93	
17	213.06	213.18	213.26	213.26	213.53	213.68	213.59	213.42	213.29	213.20	213.11	212.92	
18	213.05	213.22	213.24	213.29	213.51	213.60	213.68	213.40	213.29	213.20	213.11	212.92	
19	213.04	213.19	213.23	213.31	213.49	213.58	213.66	213.38	213.28	213.20	213.11	212.91	
20	213.04	213.17	213.23	213.44	213.47	213.57	213.64	213.37	213.29	213.20	213.08	212.91	
21	213.05	213.19	213.21	213.47	213.46	213.52	213.61	213.37	213.28	213.19	213.06	212.90	
22	213.05	213.19	213.21	213.92	213.45	213.52	213.58	213.36	213.26	213.19	213.05	212.89	
23	213.04	213.17	213.25	213.72	213.45	213.50	213.55	213.36	213.25	213.18	213.03	212.88	
24	213.03	213.17	213.29	213.62	213.44	213.61	213.53	213.36	213.25	213.18	213.03	212.87	
25	213.02	213.17	213.29	213.55	213.42	213.84	213.51	213.35	213.23	213.18	213.02	212.91	
26	213.02	213.18	213.30	213.51	213.41	213.81	213.49	213.35	213.22	213.18	212.99	213.20	
27	213.02	213.17	213.27	213.46	213.41	213.78	213.48	213.35	213.23	213.17	213.01	213.23	
28	213.01	213.15	213.27	213.44	213.42	213.69	213.46	213.34	213.23	213.17	213.01	213.23	
29	213.01	213.14	213.27	213.43	213.44	213.65	213.45	213.36	213.23	213.16		213.22	
30	213.29	213.14	213.25	213.48	213.44	213.63	213.45	213.35	213.22	213.16		213.28	
31		213.14		213.57	213.45		213.44		213.22	213.16		213.42	
MEAN	213.06	213.23	213.23	213.37	213.56	213.59	213.65	213.42	213.27	213.20	213.09	213.00	
MAX	213.29	213.45	213.39	213.92	213.98	213.91	214.32	213.53	213.33	213.24	213.16	213.42	214.32
MIN	213.00	213.14	213.09	213.21	213.41	213.43	213.44	213.34	213.22	213.16	212.99	212.87	212.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 214.41 M (MSL), AT 11.00 HOURS, ON OCT 6, 1981
ZERO GAGE AT BOTTOM ELEVATION 211.25 M (MSL), RIVER BED 212.14 M (MSL)
LEFT BANK ELEVATION 221.83 M (MSL)
RIGHT BANK ELEVATION 211.65 M (MSL), DRAINAGE AREA 290 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.88	0.04	0.17	1.80	1.01	2.03	0.82	0.42	0.17	0.07	0.00	
2	0.01	0.30	0.02	0.13	1.74	1.01	2.03	0.82	0.38	0.17	0.07	0.00	
3	0.01	0.22	0.02	0.13	1.43	1.13	2.20	0.94	0.38	0.19	0.06	0.00	
4	0.01	0.94	0.05	0.13	1.25	1.25	2.11	1.19	0.38	0.19	0.06	0.00	
5	0.00	0.61	0.05	0.13	3.18	1.19	2.11	1.19	0.35	0.17	0.05	0.00	
6	0.00	0.30	0.24	0.15	5.61	1.13	9.93	1.19	0.32	0.17	0.04	0.00	
7	0.00	0.30	0.19	0.15	3.56	1.01	6.65	1.07	0.30	0.17	0.04	0.00	
8	0.00	0.26	0.15	0.17	2.89	0.82	4.58	1.13	0.30	0.15	0.04	0.00	
9	0.00	0.38	0.11	0.26	2.28	0.88	3.76	1.43	0.28	0.13	0.03	0.00	
10	0.04	0.48	0.09	0.32	1.94	1.80	3.28	1.13	0.28	0.13	0.02	0.00	
11	0.06	0.28	0.08	0.32	1.94	1.74	3.28	1.07	0.26	0.13	0.01	0.00	
12	0.06	0.22	0.07	0.45	3.28	1.62	2.70	0.94	0.24	0.13	0.01	0.00	
13	0.06	0.15	0.11	0.35	2.28	1.80	2.45	0.88	0.24	0.11	0.01	0.00	
14	0.05	0.13	0.35	0.30	2.11	1.62	2.03	0.82	0.24	0.11	0.04	0.00	
15	0.03	0.11	0.61	0.26	1.86	2.80	1.94	0.76	0.24	0.11	0.05	0.00	
16	0.02	0.09	0.35	0.22	1.62	4.80	1.86	0.82	0.28	0.11	0.04	0.00	
17	0.01	0.09	0.24	0.24	1.43	2.53	1.80	0.76	0.30	0.11	0.03	0.00	
18	0.01	0.15	0.19	0.30	1.31	1.86	2.53	0.64	0.30	0.11	0.03	0.00	
19	0.01	0.10	0.17	0.35	1.19	1.74	2.36	0.58	0.28	0.11	0.03	0.00	
20	0.01	0.08	0.17	0.88	1.07	1.68	2.20	0.54	0.30	0.11	0.02	0.00	
21	0.01	0.10	0.13	1.07	1.01	1.37	1.94	0.54	0.28	0.10	0.01	0.00	
22	0.01	0.10	0.13	4.91	0.94	1.37	1.74	0.51	0.24	0.10	0.01	0.00	
23	0.01	0.08	0.22	2.89	0.94	1.25	1.56	0.51	0.22	0.09	0.01	0.00	
24	0.01	0.08	0.30	2.03	0.88	1.94	1.43	0.51	0.22	0.09	0.01	0.00	
25	0.00	0.08	0.30	1.56	0.76	4.07	1.31	0.48	0.17	0.09	0.00	0.00	
26	0.00	0.09	0.32	1.31	0.70	3.76	1.19	0.48	0.15	0.09	0.00	0.11	
27	0.00	0.08	0.26	1.01	0.70	3.47	1.13	0.48	0.17	0.08	0.00	0.17	
28	0.00	0.07	0.26	0.88	0.76	2.62	1.01	0.45	0.17	0.08	0.00	0.17	
29	0.00	0.06	0.26	0.82	0.88	2.28	0.94	0.51	0.17	0.07		0.15	
30	0.30	0.06	0.22	1.13	0.88	2.11	0.94	0.48	0.15	0.07		0.28	
31		0.06		1.68	0.94		0.88		0.15	0.07		0.76	
TOTAL	0.74	6.93	5.70	24.70	53.16	57.66	75.90	23.67	8.16	3.71	0.79	1.64	262.76 CMSDAY
MEAN	0.02	0.22	0.19	0.80	1.71	1.92	2.45	0.79	0.26	0.12	0.03	0.05	0.72 CMS
MAX	0.30	0.94	0.61	4.91	5.61	4.80	9.93	1.43	0.42	0.19	0.07	0.76	9.93 CMS
MIN	0.00	0.06	0.02	0.13	0.70	0.82	0.88	0.45	0.15	0.07	0.00	0.00	0.00 CMS
RUNOFF	0.064	0.599	0.492	2.134	4.593	4.982	6.558	2.045	0.705	0.321	0.068	0.142	22.702 MCM

MOMENTARY PEAK 11.22 CMS, AT 214.41 M (MSL), AT 11.00 HOURS, ON OCT 6, 1981

RUNOFF YIELD 2.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 38.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

LAM 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

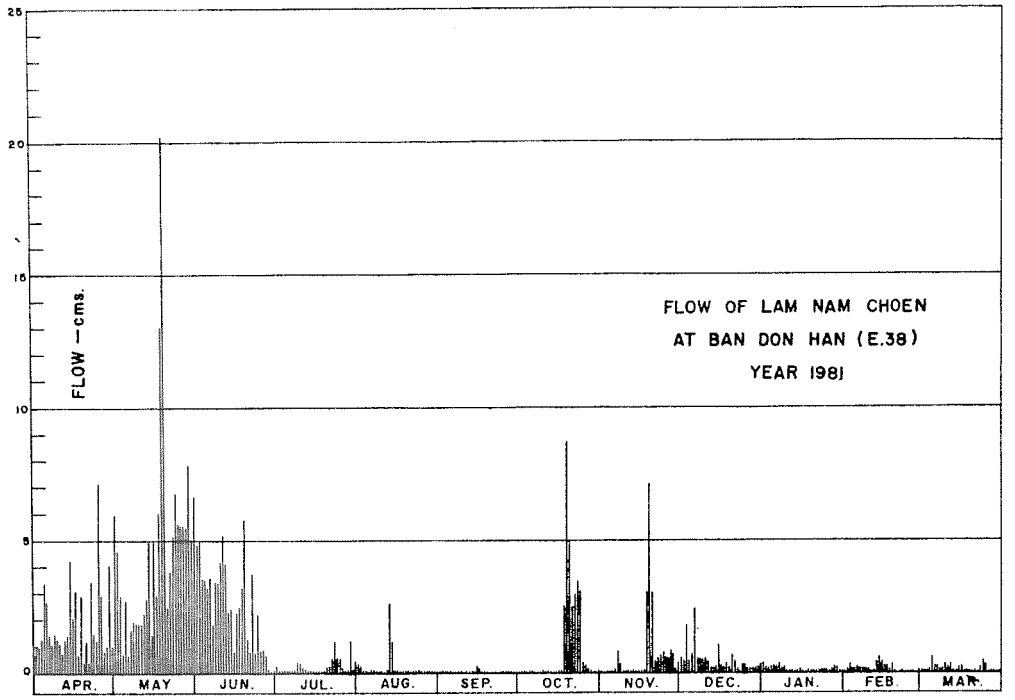
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	213.56	214.20	214.08	213.34	213.35	213.10	213.09	213.14	213.42	213.38	213.16	213.21	
2	213.57	214.01	214.10	213.14	213.28	213.11	213.08	213.13	213.40	213.30	213.28	213.24	
3	213.65	213.85	213.95	213.15	213.16	213.11	213.09	213.18	213.77	213.31	213.36	213.26	
4	213.93	213.48	213.95	213.12	213.11	213.11	213.11	213.15	213.39	213.30	213.28	213.26	
5	213.79	213.88	213.92	213.20	213.14	213.10	213.11	213.15	213.51	213.33	213.28	213.48	
6	213.65	213.47	213.96	213.25	213.15	213.09	213.11	213.14	213.84	213.35	213.33	213.34	
7	213.59	213.79	213.75	213.17	213.13	213.11	213.10	213.53	213.44	213.36	213.28	213.34	
8	213.70	213.79	213.95	213.31	213.13	213.11	213.10	213.16	213.42	213.30	213.28	213.31	
9	213.63	213.77	213.94	213.39	213.13	213.11	213.10	213.15	213.42	213.32	213.28	213.35	
10	213.59	213.77	214.05	213.38	213.16	213.11	213.11	213.15	213.42	213.17	213.28	213.36	
11	213.51	213.78	214.12	213.30	213.13	213.11	213.13	213.17	213.36	213.16	213.13	213.35	
12	213.66	213.84	213.92	213.30	213.15	213.13	213.15	213.15	213.29	213.18	213.23	213.35	
13	213.68	213.90	213.83	213.15	213.86	213.15	213.12	213.14	213.32	213.16	213.39	213.22	
14	214.02	214.09	213.84	213.15	213.38	213.18	213.16	213.17	213.33	213.17	213.48	213.24	
15	213.80	213.69	213.51	213.24	213.25	213.35	213.17	213.16	213.60	213.26	213.39	213.34	
16	213.90	214.09	213.84	213.14	213.23	213.29	213.24	213.16	213.35	213.16	213.35	213.32	
17	213.49	213.90	213.85	213.13	213.14	213.13	213.22	213.16	213.33	213.16	213.35	213.10	
18	213.89	214.28	213.93	213.13	213.11	213.12	214.06	214.05	213.36	213.20	213.29	213.03	
19	213.36	214.86	214.17	213.13	213.13	213.12	214.41	214.29	213.31	213.15	213.37	213.02	
20	213.64	215.14	213.62	213.34	213.13	213.11	213.96	213.57	213.48	213.22	213.13	213.03	
21	213.34	213.85	213.49	213.32	213.10	213.13	213.85	213.36	213.40	213.16	213.16	213.03	
22	213.94	214.02	213.97	213.48	213.10	213.13	213.89	213.43	213.27	213.14	213.14	213.03	
23	213.66	214.11	213.51	213.64	213.08	213.13	213.94	213.44	213.25	213.29	213.27	213.28	
24	213.65	214.27	213.82	213.45	213.10	213.12	213.89	213.53	213.36	213.31	213.23	213.40	
25	214.29	214.16	213.55	213.42	213.10	213.13	213.34	213.45	213.32	213.29	213.22	213.36	
26	213.64	214.15	213.55	213.28	213.11	213.15	213.34	213.45	213.31	213.29	213.19	213.19	
27	213.50	214.15	213.48	213.18	213.10	213.14	213.24	213.52	213.31	213.29	213.10	213.03	
28	213.63	214.15	213.18	213.23	213.10	213.11	213.17	213.48	213.31	213.32	213.11	213.03	
29	214.00	214.35	213.19	213.64	213.10	213.10	213.16	213.20	213.31	213.28		213.02	
30	213.56	214.10	213.23	213.30	213.08	213.11	213.15	213.44	213.35	213.22		213.01	
31		214.26		213.39	213.10		213.14		213.38	213.12		213.02	
MEAN	213.69	214.04	213.77	213.28	213.17	213.13	213.35	213.34	213.40	213.25	213.26	213.21	
MAX	214.29	215.14	214.17	213.64	213.86	213.35	214.41	214.29	213.84	213.38	213.48	213.48	215.14
MIN	213.34	213.47	213.18	213.12	213.08	213.09	213.08	213.13	213.25	213.12	213.10	213.01	213.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 215.57 M (MSL), AT 12.00 HOURS, ON NOV 18, 1981
ZERO GAGE AT BOTTOM ELEVATION 213.00 M (MSL), RIVER BED 213.04 M (MSL)
LEFT BANK ELEVATION 220.10 M (MSL)
RIGHT BANK ELEVATION 220.10 M (MSL), DRAINAGE AREA 1446 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	6.00	4.80	0.22	0.25	0.00	0.00	0.00	0.46	0.34	0.00	0.01	
2	0.91	4.10	5.00	0.00	0.08	0.00	0.00	0.00	0.40	0.10	0.08	0.04	
3	1.25	2.50	3.50	0.00	0.00	0.00	0.00	0.00	1.85	0.13	0.28	0.06	
4	3.30	0.64	3.50	0.00	0.00	0.00	0.00	0.00	0.37	0.10	0.08	0.06	
5	1.95	2.80	3.20	0.00	0.00	0.00	0.00	0.00	0.73	0.19	0.08	0.64	
6	1.25	0.61	3.60	0.05	0.00	0.00	0.00	0.00	2.40	0.25	0.19	0.22	
7	0.97	1.95	1.75	0.00	0.00	0.00	0.00	0.79	0.52	0.28	0.08	0.22	
8	1.50	1.95	3.50	0.13	0.00	0.00	0.00	0.00	0.46	0.10	0.08	0.13	
9	1.15	1.85	3.40	0.37	0.00	0.00	0.00	0.00	0.46	0.16	0.08	0.25	
10	0.97	1.85	4.50	0.34	0.00	0.00	0.00	0.00	0.46	0.00	0.08	0.28	
11	0.73	1.90	5.20	0.10	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.25	
12	1.30	2.40	3.20	0.10	0.00	0.00	0.00	0.00	0.09	0.00	0.03	0.25	
13	1.40	3.00	2.30	0.00	2.60	0.00	0.00	0.00	0.16	0.00	0.37	0.02	
14	4.20	4.90	2.40	0.00	0.34	0.00	0.00	0.00	0.19	0.00	0.64	0.04	
15	2.00	1.40	0.73	0.04	0.05	0.25	0.00	0.00	1.00	0.06	0.37	0.22	
16	3.00	4.90	2.40	0.00	0.03	0.09	0.04	0.00	0.25	0.00	0.25	0.16	
17	0.64	3.00	2.50	0.00	0.00	0.00	0.02	0.00	0.19	0.00	0.25	0.00	
18	2.90	6.96	3.30	0.00	0.00	0.00	4.60	4.50	0.28	0.00	0.09	0.00	
19	0.28	15.40	5.70	0.00	0.00	0.00	8.65	7.08	0.13	0.00	0.31	0.00	
20	1.20	20.16	1.10	0.22	0.00	0.00	3.60	0.91	0.64	0.02	0.00	0.00	
21	0.22	2.50	0.67	0.16	0.00	0.00	2.50	0.28	0.40	0.00	0.00	0.00	
22	3.40	4.20	3.70	0.64	0.00	0.00	2.90	0.49	0.07	0.00	0.00	0.00	
23	1.30	5.10	0.73	1.20	0.00	0.00	3.40	0.52	0.05	0.09	0.07	0.08	
24	1.25	6.84	2.20	0.55	0.00	0.00	2.90	0.79	0.28	0.13	0.03	0.40	
25	7.08	5.60	0.85	0.46	0.00	0.00	0.22	0.55	0.16	0.09	0.02	0.28	
26	1.20	5.50	0.85	0.08	0.00	0.00	0.22	0.55	0.13	0.09	0.00	0.00	
27	0.70	5.50	0.64	0.00	0.00	0.00	0.04	0.76	0.13	0.09	0.00	0.00	
28	1.15	5.50	0.00	0.03	0.00	0.00	0.00	0.64	0.13	0.16	0.00	0.00	
29	4.00	7.85	0.00	1.20	0.00	0.00	0.00	0.00	0.13	0.08		0.00	
30	0.88	5.00	0.03	0.10	0.00	0.00	0.00	0.52	0.25	0.02		0.00	
31		6.72		0.37	0.00		0.00		0.34	0.00		0.00	
TOTAL	52.96	148.58	75.25	6.36	3.35	0.34	29.09	18.38	13.39	2.48	3.46	3.61	357.25 CMSDAY
MEAN	1.77	4.79	2.51	0.21	0.11	0.01	0.94	0.61	0.43	0.08	0.12	0.12	0.98 CMS
MAX	7.08	20.16	5.70	1.20	2.60	0.25	8.65	7.08	2.40	0.34	0.64	0.64	20.16 CMS
MIN	0.22	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00 CMS
RUNOFF	4.576	12.837	6.502	0.550	0.289	0.029	2.513	1.588	1.157	0.214	0.299	0.312	30.866 MCM

MOMENTARY PEAK 28.33 CMS, AT 215.57 M (MSL), AT 12.00 HOURS, ON NOV 18, 1981
RUNOFF YIELD 0.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 19.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

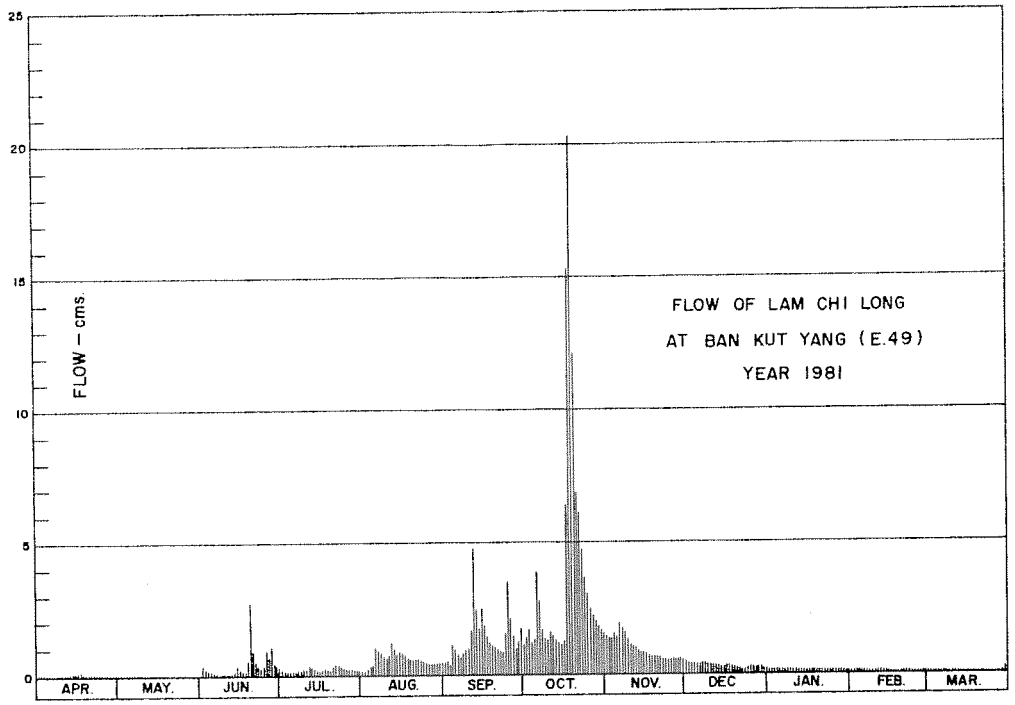
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.17	199.10	198.97	199.39	199.31	199.56	199.92	200.06	199.56	199.31	199.26	199.16	
2	199.15	199.09	199.47	199.35	199.30	199.59	200.05	200.02	199.53	199.31	199.25	199.15	
3	199.14	199.09	199.36	199.32	199.35	199.45	200.17	199.99	199.50	199.30	199.24	199.14	
4	199.14	199.09	199.30	199.30	199.42	199.91	199.94	200.10	199.50	199.31	199.26	199.14	
5	199.14	199.08	199.25	199.30	199.42	199.79	199.98	200.04	199.49	199.31	199.25	199.13	
6	199.13	199.07	199.20	199.32	199.88	199.71	200.90	200.23	199.48	199.29	199.21	199.13	
7	199.12	199.06	199.17	199.33	199.81	199.67	200.42	200.18	199.50	199.26	199.19	199.11	
8	199.12	199.05	199.15	199.33	199.77	199.77	200.07	200.12	199.50	199.26	199.15	199.10	
9	199.11	199.05	199.18	199.33	199.72	199.83	199.98	200.00	199.47	199.28	199.16	199.10	
10	199.11	199.05	199.17	199.38	199.66	199.85	199.98	199.91	199.46	199.31	199.15	199.10	
11	199.12	199.05	199.16	199.36	199.67	200.18	200.12	199.86	199.45	199.29	199.16	199.10	
12	199.13	199.04	199.15	199.47	199.96	201.16	200.03	199.85	199.42	199.27	199.21	199.12	
13	199.14	199.04	199.14	199.42	199.84	200.45	199.98	199.79	199.42	199.24	199.21	199.11	
14	199.20	199.04	199.32	199.38	199.78	200.15	199.94	199.79	199.42	199.29	199.20	199.10	
15	199.20	199.02	199.48	199.33	199.79	200.46	199.89	199.78	199.41	199.24	199.18	199.10	
16	199.19	199.02	199.33	199.30	199.77	200.24	199.94	199.74	199.45	199.25	199.17	199.09	
17	199.29	199.02	199.27	199.33	199.73	200.04	201.57	199.71	199.45	199.23	199.16	199.08	
18	199.16	199.04	199.23	199.37	199.69	199.95	202.62	199.69	199.41	199.23	199.15	199.07	
19	199.16	199.04	199.65	199.34	199.64	199.89	202.77	199.70	199.41	199.26	199.15	199.06	
20	199.14	199.04	200.53	199.32	199.63	199.87	202.20	199.67	199.39	199.25	199.18	199.05	
21	199.14	199.05	199.67	199.44	199.63	199.82	201.58	199.66	199.39	199.27	199.21	199.06	
22	199.13	199.04	199.53	199.50	199.64	199.79	201.22	199.64	199.29	199.27	199.23	199.07	
23	199.14	199.04	199.45	199.49	199.61	199.76	200.93	199.61	199.29	199.27	199.21	199.08	
24	199.12	199.03	199.41	199.45	199.59	200.17	200.78	199.61	199.40	199.27	199.13	199.09	
25	199.11	199.02	199.42	199.40	199.56	200.80	200.60	199.59	199.42	199.26	199.09	199.10	
26	199.10	199.02	199.80	199.37	199.53	200.27	200.43	199.64	199.41	199.23	199.10	199.11	
27	199.10	199.02	199.64	199.36	199.50	200.04	200.36	199.62	199.41	199.21	199.13	199.11	
28	199.10	199.01	199.87	199.34	199.51	199.84	200.28	199.62	199.41	199.21	199.13	199.11	
29	199.10	199.00	199.54	199.35	199.53	199.96	200.21	199.64	199.41	199.21		199.11	
30	199.10	199.00	199.44	199.34	199.55	200.17	200.15	199.61	199.36	199.21		199.39	
31		199.02		199.33	199.55		200.11		199.32	199.23		199.50	
MEAN	199.14	199.04	199.41	199.37	199.62	200.00	200.55	199.82	199.43	199.26	199.18	199.12	
MAX	199.29	199.10	200.53	199.50	199.96	201.16	202.77	200.23	199.56	199.31	199.26	199.50	202.77
MIN	199.10	199.00	198.97	199.30	199.30	199.45	199.89	199.59	199.29	199.21	199.09	199.05	198.97

ANNUAL MAX MOMENTARY GAGE HEIGHT 202.82 M (MSL), AT 11.00 HOURS, ON OCT 19, 1981
ZERO GAGE AT BOTTOM ELEVATION 196.06 M (MSL), RIVER BED 198.63 M (MSL)
LEFT BANK ELEVATION 203.28 M (MSL)
RIGHT BANK ELEVATION 203.12 M (MSL), DRAINAGE AREA 265 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.04	0.00	0.27	0.17	0.50	1.18	1.50	0.50	0.17	0.14	0.08	
2	0.07	0.04	0.38	0.22	0.16	0.55	1.48	1.41	0.46	0.17	0.13	0.07	
3	0.06	0.04	0.23	0.18	0.22	0.35	1.77	1.34	0.42	0.16	0.12	0.06	
4	0.06	0.04	0.16	0.16	0.31	1.15	1.22	1.60	0.42	0.17	0.14	0.06	
5	0.06	0.03	0.13	0.16	0.31	0.90	1.31	1.46	0.41	0.17	0.13	0.06	
6	0.06	0.03	0.10	0.18	1.09	0.74	3.87	1.92	0.39	0.15	0.11	0.06	
7	0.05	0.02	0.08	0.20	0.94	0.67	2.41	1.79	0.42	0.14	0.09	0.05	
8	0.05	0.02	0.07	0.20	0.86	0.86	1.53	1.65	0.42	0.14	0.07	0.04	
9	0.05	0.02	0.09	0.20	0.76	0.98	1.31	1.36	0.38	0.15	0.08	0.04	
10	0.05	0.02	0.08	0.26	0.66	1.02	1.31	1.15	0.36	0.17	0.07	0.04	
11	0.05	0.02	0.08	0.23	0.67	1.79	1.65	1.05	0.35	0.15	0.08	0.04	
12	0.06	0.02	0.07	0.38	1.27	4.77	1.43	1.02	0.31	0.14	0.11	0.05	
13	0.06	0.02	0.06	0.31	1.00	2.49	1.31	0.90	0.31	0.12	0.11	0.05	
14	0.10	0.02	0.18	0.26	0.88	1.72	1.22	0.90	0.31	0.15	0.10	0.04	
15	0.10	0.01	0.39	0.20	0.90	2.52	1.11	0.88	0.29	0.12	0.09	0.04	
16	0.09	0.01	0.20	0.16	0.86	1.94	1.22	0.80	0.35	0.13	0.08	0.04	
17	0.15	0.01	0.14	0.20	0.78	1.46	6.45	0.74	0.35	0.12	0.08	0.03	
18	0.08	0.02	0.12	0.24	0.70	1.24	17.09	0.70	0.29	0.12	0.07	0.03	
19	0.08	0.02	0.64	0.21	0.62	1.11	20.23	0.72	0.29	0.14	0.07	0.02	
20	0.06	0.02	2.72	0.18	0.61	1.07	11.28	0.67	0.27	0.13	0.09	0.02	
21	0.06	0.02	0.67	0.34	0.61	0.96	6.50	0.66	0.27	0.14	0.11	0.02	
22	0.06	0.02	0.46	0.42	0.62	0.90	5.00	0.62	0.15	0.14	0.12	0.03	
23	0.06	0.02	0.35	0.41	0.58	0.84	3.97	0.58	0.15	0.14	0.11	0.03	
24	0.05	0.01	0.29	0.35	0.55	1.77	3.47	0.58	0.28	0.14	0.06	0.04	
25	0.05	0.01	0.31	0.28	0.50	3.53	2.92	0.55	0.31	0.14	0.04	0.04	
26	0.04	0.01	0.92	0.24	0.46	2.02	2.44	0.62	0.29	0.12	0.04	0.05	
27	0.04	0.01	0.62	0.23	0.42	1.46	2.26	0.59	0.29	0.11	0.06	0.05	
28	0.04	0.00	1.07	0.21	0.43	1.00	2.05	0.59	0.29	0.11	0.06	0.05	
29	0.04	0.00	0.48	0.22	0.46	1.27	1.87	0.62	0.29	0.11		0.05	
30	0.04	0.00	0.34	0.21	0.49	1.77	1.72	0.58	0.23	0.11		0.27	
31		0.01		0.20	0.49		1.62		0.18	0.12		0.42	
TOTAL	1.90	0.58	11.43	7.51	19.38	43.35	114.20	29.55	10.03	4.29	2.56	1.97	246.75 CMSDAY
MEAN	0.06	0.02	0.38	0.24	0.63	1.44	3.68	0.98	0.32	0.14	0.09	0.06	0.68 CMS
MAX	0.15	0.04	2.72	0.42	1.27	4.77	20.23	1.92	0.50	0.17	0.14	0.42	20.23 CMS
MIN	0.04	0.00	0.00	0.16	0.16	0.35	1.11	0.55	0.15	0.11	0.04	0.02	0.00 CMS
RUNOFF	0.164	0.050	0.988	0.649	1.674	3.745	9.867	2.553	0.867	0.371	0.221	0.170	21.319 MCM

MOMENTARY PEAK 21.40 CMS, AT 202.82 M (MSL), AT 11.00 HOURS, ON OCT 19, 1981

RUNOFF YIELD 2.55 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 80.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +8.28 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 170 DISCHARGE MEASUREMENTS MADE IN 1977.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

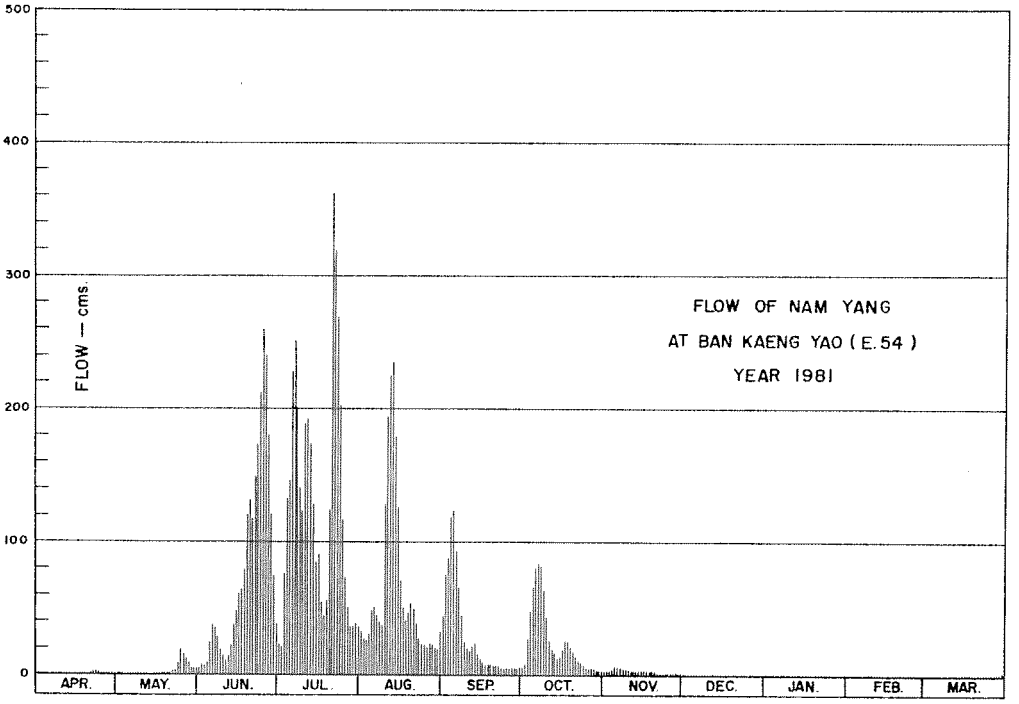
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.04	1.10	1.57	2.49	2.93	3.30	1.58	1.38	1.09	0.98	0.93	0.90	
2	1.06	1.08	1.67	2.09	2.73	4.12	1.74	1.36	1.07	0.97	0.92	0.91	
3	1.06	1.07	1.63	3.77	2.61	4.63	2.41	1.34	1.05	0.99	0.91	0.91	
4	1.05	1.06	1.74	5.72	2.83	5.43	3.42	1.47	1.06	1.01	0.91	0.89	
5	1.06	1.04	2.59	6.05	3.43	5.56	4.08	1.60	1.04	1.00	0.91	0.89	
6	1.04	1.03	3.16	7.34	3.58	4.85	4.44	1.52	1.04	1.00	0.90	0.89	
7	1.03	1.02	3.05	7.80	3.39	3.94	4.59	1.52	1.04	1.00	0.91	0.90	
8	1.02	1.02	2.69	6.97	3.19	3.20	4.46	1.48	1.05	0.99	0.95	0.90	
9	1.02	1.01	2.33	5.43	2.93	2.70	3.82	1.42	1.04	1.00	0.98	0.90	
10	1.02	1.00	2.02	5.59	5.60	2.40	3.18	1.33	1.03	1.01	1.01	0.89	
11	1.01	1.03	1.90	6.87	6.87	2.27	2.69	1.32	1.02	0.98	0.99	0.87	
12	0.97	1.02	2.13	6.94	7.42	2.47	2.37	1.30	1.04	0.97	0.99	0.89	
13	1.02	1.03	2.33	6.53	7.57	2.55	2.20	1.24	1.04	0.96	0.98	0.88	
14	1.01	1.05	2.92	5.35	6.62	2.25	1.94	1.26	1.05	0.96	1.05	0.89	
15	1.03	1.08	3.47	4.35	5.14	1.97	2.08	1.28	1.02	0.96	1.06	0.88	
16	1.03	1.06	3.84	4.71	4.14	1.85	2.32	1.21	1.02	0.95	1.03	0.85	
17	1.03	1.07	3.96	3.51	3.53	1.72	2.64	1.22	1.03	0.95	1.01	0.87	
18	1.04	1.15	4.27	3.33	3.17	1.60	2.64	1.19	1.02	0.96	0.99	0.86	
19	1.05	1.15	5.41	3.51	3.46	1.68	2.47	1.34	1.00	0.96	0.97	0.85	
20	1.08	1.12	5.71	8.08	3.69	1.60	2.27	1.24	1.00	0.96	0.97	0.85	
21	1.17	1.16	5.34	9.00	3.53	1.59	2.06	1.16	1.00	0.96	0.96	0.85	
22	1.23	1.23	5.94	8.73	3.11	1.55	1.91	1.13	1.05	0.94	0.95	0.85	
23	1.34	1.34	6.74	8.20	2.74	1.54	1.81	1.15	1.02	0.94	0.94	0.84	
24	1.26	1.83	7.26	7.25	2.55	1.53	1.71	1.12	1.00	0.94	0.94	0.83	
25	1.18	2.37	7.90	5.36	2.49	1.46	1.55	1.10	1.02	0.96	0.93	0.83	
26	1.18	2.21	7.80	4.25	2.41	1.48	1.50	1.09	1.02	0.96	0.93	0.83	
27	1.17	2.00	6.77	3.57	2.55	1.50	1.51	1.09	1.00	0.95	0.93	0.83	
28	1.11	1.78	5.14	3.10	2.55	1.53	1.47	1.09	0.99	0.95	0.91	1.10	
29	1.08	1.58	4.02	3.07	2.34	1.47	1.41	1.10	0.99	0.95		1.13	
30	1.09	1.43	3.13	3.13	2.32	1.59	1.35	1.10	0.99	0.94		1.33	
31		1.49		3.06	2.80		1.40		0.99	0.94		1.24	
MEAN	1.08	1.28	3.95	5.33	3.68	2.51	2.42	1.27	1.03	0.97	0.96	0.91	
MAX	1.34	2.37	7.90	9.00	7.57	5.56	4.59	1.60	1.09	1.01	1.06	1.33	9.00
MIN	0.97	1.00	1.57	2.09	2.32	1.46	1.35	1.09	0.99	0.94	0.90	0.83	0.83

ANNUAL MAX MOMENTARY GAGE HEIGHT — 9.04 M (A.D), AT 6.00 HOURS, ON JUL 21, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.34 M (A.D)

LEFT BANK ELEVATION — 8.36 M (A.D)

RIGHT BANK ELEVATION — 8.27 M (A.D), DRAINAGE AREA — 847 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	1.20	5.84	22.38	32.78	43.00	5.96	3.60	1.14	0.52	0.32	0.20	
2	0.96	1.08	7.18	14.02	27.72	69.08	8.16	3.40	1.02	0.48	0.28	0.24	
3	0.96	1.02	6.62	57.24	25.02	87.14	20.62	3.20	0.90	0.56	0.24	0.24	
4	0.90	0.96	8.16	130.68	30.18	118.26	46.60	4.64	0.96	0.66	0.24	0.18	
5	0.96	0.84	24.58	145.70	46.90	123.72	67.72	6.20	0.84	0.60	0.24	0.18	
6	0.84	0.78	38.88	217.80	51.40	95.50	80.04	5.24	0.84	0.60	0.20	0.18	
7	0.78	0.72	35.90	251.60	45.70	62.96	85.62	5.24	0.84	0.60	0.24	0.20	
8	0.72	0.72	26.78	194.20	39.72	40.00	80.76	4.76	0.90	0.56	0.40	0.20	
9	0.72	0.66	18.86	118.26	32.78	27.00	58.88	4.04	0.84	0.60	0.52	0.20	
10	0.72	0.60	12.76	124.98	125.40	20.40	39.44	3.10	0.78	0.66	0.66	0.18	
11	0.66	0.78	10.60	188.20	188.20	17.60	26.78	3.00	0.72	0.52	0.56	0.14	
12	0.48	0.72	14.80	192.40	223.44	21.94	19.74	2.80	0.84	0.48	0.56	0.18	
13	0.72	0.78	18.86	168.82	234.24	23.70	16.20	2.32	0.84	0.44	0.52	0.16	
14	0.66	0.90	32.52	115.00	173.68	17.20	11.32	2.48	0.90	0.44	0.90	0.18	
15	0.78	1.08	48.10	76.90	106.60	11.86	13.84	2.64	0.72	0.44	0.96	0.16	
16	0.78	0.96	59.56	90.18	69.76	9.80	18.64	2.08	0.72	0.40	0.78	0.10	
17	0.78	1.02	63.64	49.30	49.90	7.88	25.68	2.16	0.78	0.40	0.66	0.14	
18	0.84	1.60	74.18	43.90	39.16	6.20	25.68	1.92	0.72	0.44	0.56	0.12	
19	0.90	1.60	117.42	49.30	47.80	7.32	21.94	3.20	0.60	0.44	0.48	0.10	
20	1.08	1.36	130.24	273.56	54.70	6.20	17.60	2.32	0.60	0.44	0.48	0.10	
21	1.76	1.68	114.60	360.00	49.90	6.08	13.48	1.68	0.60	0.44	0.44	0.10	
22	2.24	2.24	140.64	333.00	37.48	5.60	10.78	1.44	0.90	0.36	0.40	0.10	
23	3.20	3.20	180.40	283.60	27.96	5.48	9.16	1.60	0.72	0.36	0.36	0.08	
24	2.48	9.48	212.36	211.70	23.70	5.36	7.74	1.36	0.60	0.36	0.36	0.06	
25	1.84	19.74	259.20	115.40	22.38	4.52	5.60	1.20	0.72	0.44	0.32	0.06	
26	1.64	16.40	251.60	73.50	20.62	4.76	5.00	1.14	0.72	0.44	0.32	0.06	
27	1.76	12.40	182.20	51.10	23.70	5.00	5.12	1.14	0.60	0.40	0.32	0.06	
28	1.28	8.72	106.60	37.20	23.70	5.36	4.64	1.14	0.56	0.40	0.24	1.20	
29	1.08	5.96	65.68	36.42	19.08	4.64	3.92	1.20	0.56	0.40		1.44	
30	1.14	4.16	38.04	38.04	18.64	6.08	3.30	1.20	0.56	0.36		3.10	
31		4.88		36.16	29.40		3.80		0.56	0.36		2.32	
TOTAL	34.70	108.24	2306.80	4100.54	1941.64	869.64	763.76	81.44	23.60	14.60	12.56	11.96	10269.46 CMSDAY
MEAN	1.16	3.49	76.89	132.28	62.63	28.99	24.64	2.71	0.76	0.47	0.45	0.39	28.14 CMS
MAX	3.20	19.74	259.20	360.00	234.24	123.72	85.62	6.20	1.14	0.66	0.96	3.10	360.00 CMS
MIN	0.48	0.60	5.84	14.02	18.64	4.52	3.30	1.14	0.56	0.36	0.20	0.06	0.06 CMS
RUNOFF	2.998	9.352	199.307	354.286	167.757	75.137	65.989	7.036	2.039	1.261	1.085	1.033	887.281 MCM

MOMENTARY PEAK 364.00 CMS, AT 9.04 M (A.D), AT 6.00 HOURS, ON JUL 21, 1981

RUNOFF YIELD 33.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 429.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

CHI RIVER BASIN

LAM KHAN CHU AT BAN KOK PHANGAT, CHAIYAPHUM (E.60)

LOCATION — LAT. 15°-29'-14" N., LONG. 101°-33'-32" E., ON LEFT BANK ABOUT 500 METERS FROM BAN KOK PHANGAT, AMPHOE BAMNET NARONG, CHAIYAPHUM.

DRAINAGE AREA — 205 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 8 METERS FROM THE TOP 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 123 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

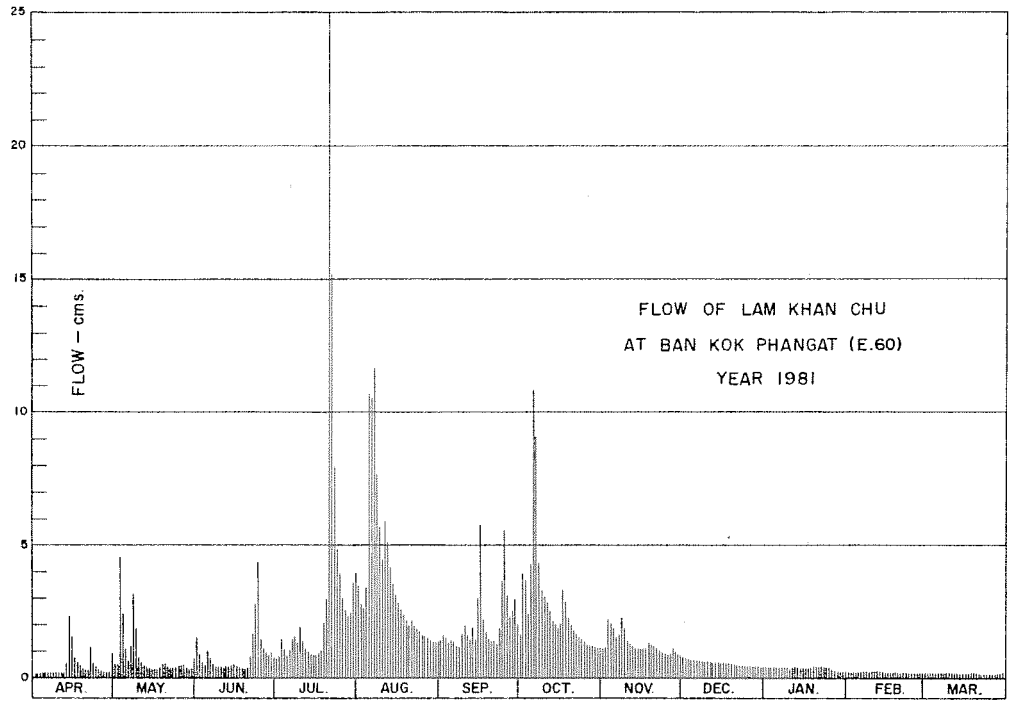
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.56	0.81	1.31	0.93	1.81	1.21	1.25	1.10	0.94	0.78	0.63	0.60	
2	0.56	0.76	0.93	0.90	1.63	1.27	1.95	1.11	0.91	0.77	0.63	0.60	
3	0.56	2.11	0.82	1.22	1.52	1.23	1.90	1.47	0.91	0.76	0.62	0.61	
4	0.58	1.44	0.79	1.02	1.75	1.18	1.52	1.42	0.90	0.76	0.63	0.61	
5	0.61	1.04	1.04	0.95	3.38	1.22	2.10	1.36	0.88	0.71	0.62	0.60	
6	0.60	0.86	0.90	1.00	3.37	1.17	3.41	1.23	0.88	0.75	0.62	0.60	
7	0.60	0.89	0.81	1.23	3.56	1.13	2.39	1.25	0.88	0.74	0.63	0.60	
8	0.59	1.74	0.75	1.26	2.79	1.10	1.96	1.50	0.85	0.74	0.63	0.59	
9	0.58	1.25	0.73	1.16	2.28	1.29	1.78	1.33	0.86	0.77	0.63	0.57	
10	0.58	0.93	0.75	1.38	2.04	1.38	1.73	1.19	0.85	0.70	0.62	0.58	
11	0.58	0.82	0.72	1.19	2.42	1.24	1.66	1.17	0.88	0.75	0.63	0.58	
12	0.59	0.76	0.78	1.11	2.20	1.20	1.54	1.19	0.85	0.75	0.66	0.59	
13	0.84	0.73	0.74	1.05	2.00	1.38	1.46	1.12	0.84	0.75	0.65	0.58	
14	1.50	0.69	0.79	1.01	1.87	1.17	1.42	1.11	0.85	0.73	0.61	0.59	
15	1.23	0.67	0.81	0.99	1.72	2.02	1.36	1.10	0.83	0.73	0.61	0.57	
16	0.89	0.68	0.76	1.00	1.66	2.38	1.43	1.10	0.81	0.71	0.61	0.56	
17	0.78	0.66	0.73	1.02	1.58	1.49	1.80	1.11	0.82	0.74	0.61	0.56	
18	0.73	0.73	0.71	1.06	1.53	1.33	1.61	1.19	0.81	0.76	0.62	0.58	
19	0.67	0.78	0.70	1.47	1.46	1.22	1.50	1.16	0.81	0.76	0.64	0.58	
20	0.65	0.81	0.70	1.67	1.37	1.20	1.41	1.13	0.80	0.77	0.61	0.59	
21	0.64	0.75	0.93	5.18	1.44	1.20	1.35	1.09	0.79	0.74	0.60	0.58	
22	1.12	0.71	1.26	4.20	1.40	1.15	1.29	1.07	0.79	0.74	0.61	0.58	
23	0.84	0.71	1.71	2.69	1.37	1.26	1.25	1.03	0.79	0.75	0.61	0.58	
24	0.76	0.71	2.05	2.13	1.34	1.85	1.23	1.03	0.78	0.74	0.60	0.58	
25	0.70	0.74	1.25	1.89	1.29	2.34	1.19	1.03	0.78	0.74	0.59	0.56	
26	0.64	0.75	1.12	1.70	1.28	1.61	1.15	0.99	0.78	0.71	0.60	0.56	
27	0.62	0.78	1.04	1.58	1.26	1.49	1.13	1.10	0.78	0.63	0.59	0.56	
28	0.60	0.70	0.98	1.51	1.23	1.57	1.14	1.04	0.77	0.62	0.60	0.56	
29	0.61	0.67	1.02	1.56	1.22	1.70	1.12	1.00	0.78	0.62		0.56	
30	1.00	0.65	0.94	1.87	1.21	1.40	1.09	0.97	0.78	0.62		0.56	
31		0.83		1.97	1.19		1.12		0.76	0.63		0.72	
MEAN	0.73	0.88	0.95	1.58	1.81	1.41	1.56	1.15	0.83	0.72	0.62	0.59	
MAX	1.50	2.11	2.05	5.18	3.56	2.38	3.41	1.50	0.94	0.78	0.66	0.72	5.18
MIN	0.56	0.65	0.70	0.90	1.19	1.10	1.09	0.97	0.76	0.62	0.59	0.56	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.25 M (A.D), AT 13.00 HOURS, ON JUL 21, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.53 M (A.D)

LEFT BANK ELEVATION 7.60 M (A.D)

RIGHT BANK ELEVATION 6.90 M (A.D), DRAINAGE AREA 205 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.53	1.73	0.77	3.37	1.44	1.55	1.14	0.79	0.48	0.25	0.20	
2	0.16	0.45	0.77	0.70	2.72	1.61	3.90	1.17	0.72	0.46	0.25	0.20	
3	0.16	4.54	0.55	1.47	2.36	1.50	3.70	2.21	0.72	0.45	0.23	0.21	
4	0.18	2.12	0.49	0.96	3.14	1.36	2.36	2.06	0.70	0.45	0.25	0.21	
5	0.21	1.01	1.01	0.81	10.64	1.47	4.50	1.88	0.66	0.37	0.23	0.20	
6	0.20	0.62	0.70	0.92	10.58	1.33	10.81	1.50	0.66	0.43	0.23	0.20	
7	0.20	0.68	0.53	1.50	11.65	1.22	5.77	1.55	0.66	0.41	0.25	0.20	
8	0.19	3.11	0.43	1.58	7.63	1.14	3.94	2.30	0.60	0.41	0.25	0.19	
9	0.18	1.55	0.40	1.30	5.28	1.67	3.26	1.79	0.62	0.46	0.25	0.17	
10	0.18	0.77	0.43	1.94	4.26	1.94	3.07	1.38	0.60	0.35	0.23	0.18	
11	0.18	0.55	0.38	1.38	5.91	1.53	2.82	1.33	0.66	0.43	0.25	0.18	
12	0.19	0.45	0.48	1.17	4.93	1.41	2.43	1.27	0.60	0.43	0.29	0.19	
13	0.59	0.40	0.41	1.03	4.10	1.94	2.18	1.19	0.59	0.43	0.28	0.18	
14	2.30	0.33	0.49	0.94	3.59	1.33	2.06	1.17	0.60	0.40	0.21	0.19	
15	1.50	0.31	0.53	0.90	3.03	4.18	1.88	1.14	0.57	0.40	0.21	0.17	
16	0.68	0.32	0.45	0.92	2.82	5.73	2.09	1.14	0.53	0.37	0.21	0.16	
17	0.48	0.29	0.40	0.96	2.56	2.27	3.33	1.17	0.55	0.41	0.21	0.16	
18	0.40	0.40	0.37	1.05	2.40	1.79	2.65	1.38	0.53	0.45	0.23	0.18	
19	0.31	0.48	0.35	2.21	2.18	1.47	2.30	1.30	0.53	0.45	0.26	0.18	
20	0.28	0.53	0.35	2.86	1.91	1.41	2.03	1.22	0.51	0.46	0.21	0.19	
21	0.26	0.43	0.77	29.06	2.12	1.41	1.85	1.12	0.49	0.41	0.20	0.18	
22	1.19	0.37	1.58	15.75	2.00	1.27	1.67	1.07	0.49	0.41	0.21	0.18	
23	0.59	0.37	3.00	7.15	1.91	1.58	1.55	0.99	0.49	0.43	0.21	0.18	
24	0.45	0.37	4.30	4.63	1.82	3.51	1.50	0.99	0.48	0.41	0.20	0.18	
25	0.35	0.41	1.55	3.66	1.67	5.55	1.38	0.99	0.48	0.41	0.19	0.16	
26	0.26	0.43	1.19	2.96	1.64	2.65	1.27	0.90	0.48	0.37	0.20	0.16	
27	0.23	0.48	1.01	2.56	1.58	2.27	1.22	1.14	0.48	0.25	0.19	0.16	
28	0.20	0.35	0.88	2.33	1.50	2.52	1.25	1.01	0.46	0.23	0.20	0.16	
29	0.21	0.31	0.96	2.49	1.47	2.96	1.19	0.92	0.48	0.23		0.16	
30	0.92	0.28	0.79	3.59	1.44	2.00	1.12	0.85	0.48	0.23		0.16	
31		0.57		3.98	1.38		1.19		0.45	0.25		0.38	
TOTAL	13.39	23.81	27.28	103.53	113.59	63.46	81.82	39.27	17.66	12.13	6.38	5.80	508.12 CMSDAY
MEAN	0.45	0.77	0.91	3.34	3.66	2.12	2.64	1.31	0.57	0.39	0.23	0.19	1.39 CMS
MAX	2.30	4.54	4.30	29.06	11.65	5.73	10.81	2.30	0.79	0.48	0.29	0.38	29.06 CMS
MIN	0.16	0.28	0.35	0.70	1.38	1.14	1.12	0.85	0.45	0.23	0.19	0.16	0.16 CMS
RUNOFF	1.157	2.057	2.357	8.945	9.814	5.483	7.069	3.393	1.526	1.048	0.551	0.501	43.901 MCM

MOMENTARY PEAK 30.65 CMS, AT 5.25 M (A.D), AT 13.00 HOURS, ON JUL 21, 1981

RUNOFF YIELD 6.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 149.51 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ABOUT 100 METERS WEST OF BAN THA CHANG SCHOOL, AND ABOUT 30 METERS SOUTH OF RAILWAY PUMPING STATION, AMPHOE CHAKKARAT, NAKHON RATCHASIMA.

DRAINAGE AREA — 4,800 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +157.85 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE FOOT OF THE LADDER OF 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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960, 1969-1971

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

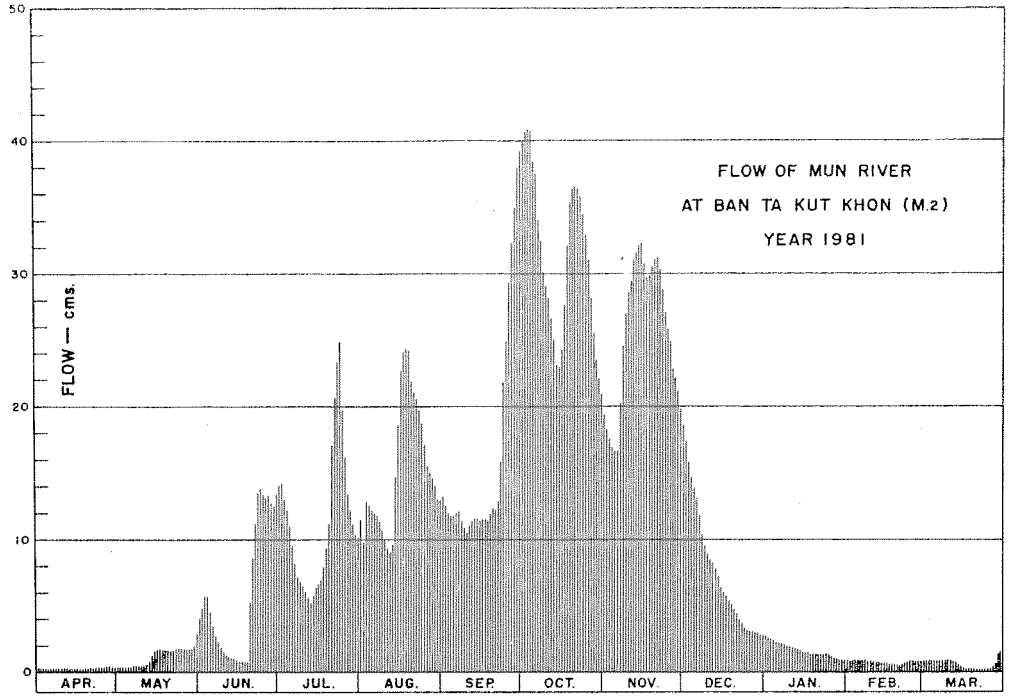
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 230 DISCHARGE MEASUREMENTS MADE IN 1969.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	159.22	159.24	160.01	160.82	160.65	160.76	162.31	161.17	161.10	159.85	159.43	159.44	
2	159.24	159.24	160.12	160.84	160.50	160.73	162.35	161.09	161.03	159.82	159.42	159.44	
3	159.25	159.23	160.18	160.75	160.75	160.68	162.39	161.05	160.94	159.80	159.41	159.47	
4	159.23	159.23	160.18	160.69	160.73	160.66	162.39	161.01	160.85	159.77	159.43	159.47	
5	159.20	159.23	160.10	160.58	160.70	160.66	162.33	160.99	160.81	159.78	159.45	159.48	
6	159.20	159.23	159.98	160.50	160.67	160.68	162.23	160.98	160.76	159.76	159.45	159.49	
7	159.18	159.25	159.86	160.38	160.67	160.69	162.13	161.16	160.68	159.76	159.46	159.48	
8	159.14	159.28	159.80	160.30	160.63	160.66	161.96	161.41	160.59	159.72	159.44	159.44	
9	159.13	159.29	159.74	160.28	160.59	160.60	161.82	161.55	160.50	159.72	159.44	159.42	
10	159.13	159.28	159.65	160.26	160.51	160.57	161.73	161.69	160.46	159.73	159.44	159.43	
11	159.13	159.27	159.58	160.23	160.47	160.60	161.68	161.73	160.41	159.69	159.44	159.45	
12	159.14	159.25	159.53	160.18	160.44	160.64	161.59	161.81	160.40	159.69	159.42	159.43	
13	159.15	159.39	159.50	160.12	160.51	160.65	161.46	161.87	160.36	159.68	159.40	159.37	
14	159.15	159.55	159.49	160.18	160.80	160.65	161.36	161.91	160.30	159.64	159.40	159.31	
15	159.13	159.66	159.46	160.23	161.11	160.63	161.37	161.92	160.25	159.63	159.37	159.25	
16	159.12	159.68	159.42	160.26	161.31	160.64	161.45	161.85	160.22	159.61	159.34	159.23	
17	159.10	159.67	159.42	160.29	161.43	160.65	161.57	161.76	160.18	159.61	159.34	159.16	
18	159.09	159.68	159.41	160.38	161.46	160.65	161.82	161.77	160.14	159.61	159.36	159.11	
19	159.11	159.68	159.39	160.49	161.44	160.65	162.02	161.79	160.11	159.58	159.35	159.10	
20	159.12	159.66	160.12	160.63	161.31	160.71	162.12	161.84	160.11	159.57	159.33	159.09	
21	159.14	159.65	160.38	160.91	161.27	160.69	162.16	161.85	160.04	159.57	159.31	159.09	
22	159.18	159.66	160.63	161.17	161.23	160.74	162.16	161.79	159.99	159.57	159.34	159.08	
23	159.21	159.66	160.78	161.42	161.20	160.96	162.14	161.73	159.97	159.58	159.36	159.09	
24	159.23	159.69	160.82	161.49	161.12	161.26	162.08	161.61	159.95	159.60	159.41	159.09	
25	159.22	159.68	160.78	161.33	161.01	161.45	161.98	161.55	159.93	159.60	159.45	159.10	
26	159.21	159.68	160.76	161.00	160.93	161.64	161.86	161.47	159.90	159.55	159.44	159.16	
27	159.20	159.66	160.79	160.80	160.89	161.81	161.71	161.37	159.90	159.47	159.46	159.24	
28	159.18	159.66	160.73	160.69	160.87	161.99	161.56	161.31	159.90	159.47	159.46	159.34	
29	159.17	159.69	160.71	160.60	160.82	162.15	161.42	161.27	159.89	159.46		159.43	
30	159.21	159.67	160.74	160.55	160.75	162.27	161.33	161.22	159.87	159.46		159.55	
31		159.82		160.54	160.73		161.26		159.84	159.45		159.77	
MEAN	159.17	159.50	160.07	160.61	160.89	160.94	161.86	161.52	160.30	159.64	159.41	159.32	
MAX	159.25	159.82	160.82	161.49	161.46	162.27	162.39	161.92	161.10	159.85	159.46	159.77	162.39
MIN	159.09	159.23	159.39	160.12	160.44	160.57	161.26	160.98	159.84	159.45	159.31	159.08	159.08

ANNUAL MAX MOMENTARY GAGE HEIGHT 162.40 M (MSL), AT 24.00 HOURS, ON OCT 3, 1981
ZERO GAGE AT BOTTOM ELEVATION 157.85 M (MSL), RIVER BED 157.80 M (MSL)
LEFT BANK ELEVATION 164.55 M (MSL)
RIGHT BANK ELEVATION 165.69 M (MSL), DRAINAGE AREA 4800 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.34	0.38	3.99	13.92	11.50	13.04	39.29	19.52	18.40	2.70	0.79	0.82	
2	0.38	0.38	5.00	14.24	9.40	12.62	40.05	18.24	17.28	2.52	0.76	0.82	
3	0.40	0.36	5.60	12.90	12.90	11.92	40.81	17.60	15.84	2.40	0.73	0.91	
4	0.36	0.36	5.60	12.06	12.62	11.64	40.81	16.96	14.40	2.22	0.79	0.91	
5	0.30	0.36	4.80	10.52	12.20	11.64	39.67	16.64	13.76	2.28	0.85	0.94	
6	0.30	0.36	3.72	9.40	11.78	11.92	37.77	16.48	13.04	2.16	0.85	0.97	
7	0.28	0.40	2.76	7.96	11.78	12.06	35.94	19.36	11.92	2.16	0.88	0.94	
8	0.24	0.46	2.40	7.00	11.22	11.64	32.92	23.57	10.66	1.92	0.82	0.82	
9	0.23	0.48	2.04	6.76	10.66	10.80	30.54	25.95	9.40	1.92	0.82	0.76	
10	0.23	0.46	1.55	6.52	9.54	10.38	29.01	28.33	8.92	1.98	0.82	0.79	
11	0.23	0.44	1.24	6.16	9.04	10.80	28.16	29.01	8.32	1.75	0.82	0.85	
12	0.24	0.40	1.09	5.60	8.68	11.36	26.63	30.37	8.20	1.75	0.76	0.79	
13	0.25	0.68	1.00	5.00	9.54	11.50	24.42	31.39	7.72	1.70	0.70	0.64	
14	0.25	1.15	0.97	5.60	13.60	11.50	22.72	32.07	7.00	1.50	0.70	0.52	
15	0.23	1.60	0.88	6.16	18.56	11.22	22.89	32.24	6.40	1.45	0.64	0.40	
16	0.22	1.70	0.76	6.52	21.87	11.36	24.25	31.05	6.04	1.35	0.58	0.36	
17	0.20	1.65	0.76	6.88	23.91	11.50	26.29	29.52	5.60	1.35	0.58	0.26	
18	0.19	1.70	0.73	7.96	24.42	11.50	30.54	29.69	5.20	1.35	0.62	0.21	
19	0.21	1.70	0.68	9.28	24.08	11.50	33.96	30.03	4.90	1.24	0.60	0.20	
20	0.22	1.60	5.00	11.22	21.87	12.34	35.76	30.88	4.90	1.21	0.56	0.19	
21	0.24	1.55	7.96	15.36	21.19	12.06	36.48	31.05	4.26	1.21	0.52	0.19	
22	0.28	1.60	11.22	19.52	20.51	12.76	36.48	30.03	3.81	1.21	0.58	0.18	
23	0.32	1.60	13.32	23.74	20.00	16.16	36.12	29.01	3.63	1.24	0.62	0.19	
24	0.36	1.75	13.92	24.93	18.72	21.02	35.04	26.97	3.45	1.30	0.73	0.19	
25	0.34	1.70	13.32	22.21	16.96	24.25	33.26	25.95	3.27	1.30	0.85	0.20	
26	0.32	1.70	13.04	16.80	15.68	27.48	31.22	24.59	3.00	1.15	0.82	0.26	
27	0.30	1.60	13.46	13.60	15.04	30.37	28.67	22.89	3.00	0.91	0.88	0.38	
28	0.28	1.60	12.62	12.06	14.72	33.43	26.12	21.87	3.00	0.91	0.88	0.58	
29	0.27	1.75	12.34	10.80	13.92	36.30	23.74	21.19	2.94	0.88		0.79	
30	0.32	1.65	12.76	10.10	12.90	38.53	22.21	20.34	2.82	0.88		1.15	
31		2.52		9.96	12.62		21.02		2.64	0.85		2.22	
TOTAL	8.33	35.64	174.53	350.74	471.43	484.60	972.79	762.79	233.72	48.75	20.55	19.43	3583.29 CMSDAY
MEAN	0.28	1.15	5.82	11.31	15.21	16.15	31.38	25.43	7.54	1.57	0.73	0.63	9.82 CMS
MAX	0.40	2.52	13.92	24.93	24.42	38.53	40.81	32.24	18.40	2.70	0.88	2.22	40.81 CMS
MIN	0.19	0.36	0.68	5.00	8.68	10.38	21.02	16.48	2.64	0.85	0.52	0.18	0.18 CMS
RUNOFF	0.720	3.079	15.079	30.304	40.732	41.869	84.049	65.905	20.193	4.212	1.776	1.679	309.597 MCM

MOMENTARY PEAK 41.00 CMS, AT 162.40 M (MSL), AT 24.00 HOURS, ON OCT 3, 1981

RUNOFF YIELD 2.05 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 8.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

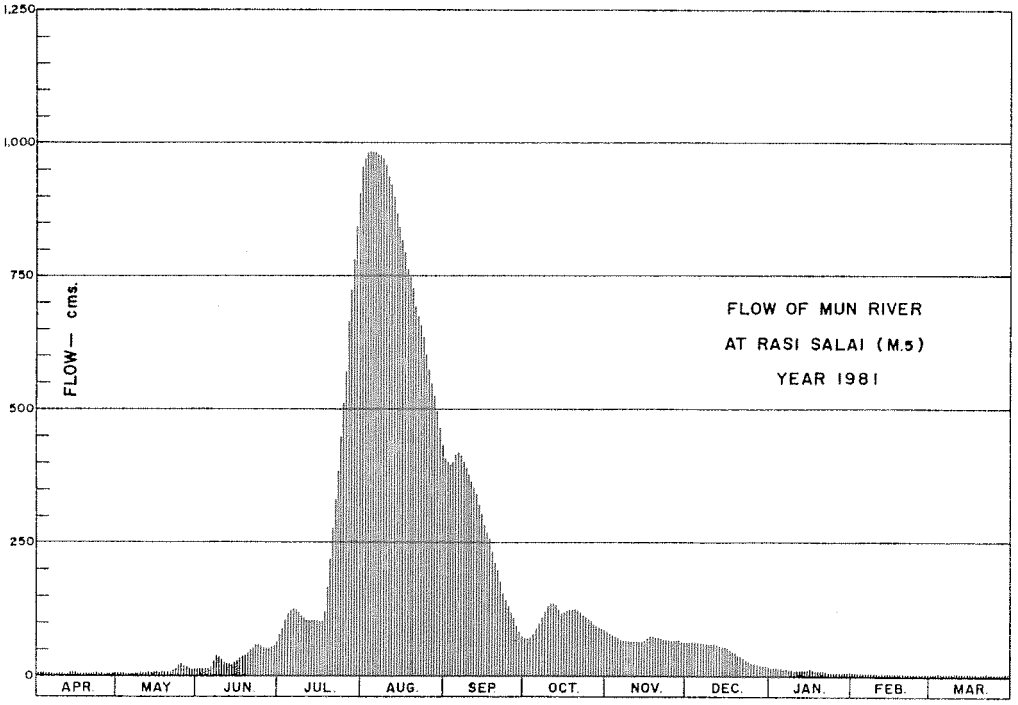
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	110.42	110.34	110.72	111.40	117.78	114.23	111.33	111.45	111.26	110.69	110.36	110.24	
2	110.41	110.33	110.66	111.56	117.87	114.19	111.33	111.43	111.26	110.68	110.35	110.23	
3	110.38	110.31	110.67	111.75	117.92	114.16	111.36	111.39	111.26	110.65	110.34	110.22	
4	110.36	110.30	110.66	111.84	117.95	114.19	111.41	111.36	111.25	110.64	110.33	110.21	
5	110.35	110.28	110.66	111.89	117.93	114.33	111.50	111.34	111.27	110.63	110.33	110.21	
6	110.33	110.28	110.76	111.92	117.90	114.32	111.60	111.32	111.26	110.61	110.33	110.21	
7	110.32	110.28	111.00	111.94	117.91	114.25	111.70	111.31	111.23	110.59	110.33	110.20	
8	110.31	110.28	110.99	111.86	117.88	114.21	111.84	111.30	111.22	110.57	110.32	110.19	
9	110.31	110.27	110.94	111.80	117.82	114.11	111.96	111.29	111.23	110.55	110.32	110.19	
10	110.31	110.26	110.87	111.74	117.74	114.02	112.02	111.28	111.23	110.54	110.31	110.18	
11	110.29	110.31	110.82	111.72	117.64	113.92	112.03	111.28	111.23	110.52	110.30	110.17	
12	110.30	110.32	110.79	111.71	117.49	113.79	112.00	111.28	111.23	110.51	110.30	110.17	
13	110.32	110.33	110.80	111.70	117.36	113.70	111.96	111.28	111.22	110.50	110.30	110.17	
14	110.53	110.31	110.83	111.72	117.19	113.59	111.87	111.28	111.13	110.49	110.30	110.17	
15	110.44	110.32	110.84	111.72	117.05	113.46	111.81	111.31	111.16	110.48	110.30	110.17	
16	110.38	110.33	110.94	111.69	116.88	113.29	111.86	111.39	111.14	110.48	110.29	110.16	
17	110.35	110.37	110.98	111.67	116.71	113.13	111.87	111.39	111.11	110.49	110.28	110.15	
18	110.35	110.47	111.01	111.89	116.55	112.97	111.91	111.37	111.06	110.47	110.28	110.15	
19	110.32	110.51	111.05	112.25	116.38	112.88	111.93	111.37	111.01	110.44	110.28	110.15	
20	110.32	110.46	111.08	112.64	116.24	112.73	111.93	111.36	110.98	110.44	110.27	110.14	
21	110.35	110.44	111.20	113.06	116.11	112.52	111.90	111.33	110.94	110.44	110.27	110.14	
22	110.37	110.54	111.24	113.53	115.98	112.34	111.85	111.33	110.89	110.45	110.26	110.14	
23	110.41	110.65	111.24	114.09	115.84	112.15	111.80	111.30	110.88	110.43	110.26	110.14	
24	110.38	110.80	111.18	114.56	115.72	112.03	111.74	111.30	110.83	110.41	110.25	110.14	
25	110.36	110.85	111.16	115.05	115.54	111.94	111.70	111.30	110.82	110.41	110.25	110.12	
26	110.35	110.76	111.16	115.53	115.35	111.84	111.66	111.30	110.80	110.40	110.25	110.11	
27	110.34	110.71	111.12	116.04	115.16	111.71	111.64	111.30	110.79	110.38	110.24	110.12	
28	110.33	110.66	111.14	116.50	115.03	111.57	111.61	111.29	110.76	110.38	110.24	110.13	
29	110.34	110.62	111.19	116.93	114.75	111.47	111.57	111.28	110.74	110.37		110.13	
30	110.34	110.60	111.30	117.31	114.54	111.37	111.52	111.26	110.72	110.37		110.13	
31		110.56		117.59	114.34		111.48		110.71	110.36		110.14	
MEAN	110.36	110.45	110.97	113.12	116.66	113.15	111.73	111.33	111.05	110.50	110.29	110.16	
MAX	110.53	110.85	111.30	117.59	117.95	114.33	112.03	111.45	111.27	110.69	110.36	110.24	117.95
MIN	110.29	110.26	110.66	111.40	114.34	111.37	111.33	111.26	110.71	110.36	110.24	110.11	110.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 117.95 M (MSL), AT 6.00 HOURS, ON AUG 4, 1981
ZERO GAGE AT BOTTOM ELEVATION 110.00 M (MSL), RIVER BED 109.19 M (MSL)
LEFT BANK ELEVATION 124.80 M (MSL)
RIGHT BANK ELEVATION 122.86 M (MSL), DRAINAGE AREA 44275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.6	6.2	19.2	77.0	954.4	406.2	70.7	81.5	64.4	17.6	6.8	3.8	
2	8.3	5.9	16.4	91.4	970.6	400.6	70.7	79.7	64.4	17.2	6.5	3.6	
3	7.4	5.3	16.8	109.0	979.6	396.4	73.4	76.1	64.4	16.0	6.2	3.4	
4	6.8	5.0	16.4	118.0	985.0	400.6	77.9	73.4	63.5	15.6	5.9	3.2	
5	6.5	4.6	16.4	123.0	981.4	420.2	86.0	71.6	65.3	15.2	5.9	3.2	
6	5.9	4.6	21.6	126.0	976.0	418.8	95.0	69.8	64.4	14.4	5.9	3.2	
7	5.6	4.6	41.0	128.0	977.8	409.0	104.0	68.9	61.7	13.7	5.9	3.0	
8	5.3	4.6	40.1	120.0	972.4	403.4	118.0	68.0	60.8	13.1	5.6	2.8	
9	5.3	4.4	35.6	114.0	961.6	389.4	130.0	67.1	61.7	12.5	5.6	2.8	
10	5.3	4.2	29.6	108.0	947.2	376.8	136.2	66.2	61.7	12.2	5.3	2.7	
11	4.8	5.3	25.6	106.0	929.8	363.6	137.3	66.2	61.7	11.6	5.0	2.6	
12	5.0	5.6	23.4	105.0	904.3	346.7	134.0	66.2	61.7	11.3	5.0	2.6	
13	5.6	5.9	24.0	104.0	882.6	335.0	130.0	66.2	60.8	11.0	5.0	2.6	
14	11.9	5.3	26.4	106.0	855.4	320.7	121.0	66.2	52.7	10.7	5.0	2.6	
15	9.2	5.6	27.2	106.0	833.0	303.8	115.0	68.9	55.4	10.4	5.0	2.6	
16	7.4	5.9	35.6	103.1	805.8	282.8	120.0	76.1	53.6	10.4	4.8	2.4	
17	6.5	7.1	39.2	101.3	778.6	263.6	121.0	76.1	50.9	10.7	4.6	2.2	
18	6.5	10.1	41.9	123.0	753.0	244.4	125.0	74.3	46.4	10.1	4.6	2.2	
19	5.6	11.3	45.5	161.5	725.8	233.6	127.0	74.3	41.9	9.2	4.6	2.2	
20	5.6	9.8	48.2	204.8	703.4	215.6	127.0	73.4	39.2	9.2	4.4	2.1	
21	6.5	9.2	59.0	255.2	682.6	191.2	124.0	70.7	35.6	9.2	4.4	2.1	
22	7.1	12.2	62.6	312.9	661.8	171.4	119.0	70.7	31.2	9.5	4.2	2.1	
23	8.3	16.0	62.6	386.6	639.4	150.5	114.0	68.0	30.4	8.9	4.2	2.1	
24	7.4	24.0	57.2	452.4	621.0	137.3	108.0	68.0	26.4	8.3	4.0	2.1	
25	6.8	28.0	55.4	521.0	594.0	128.0	104.0	68.0	25.6	8.3	4.0	1.8	
26	6.5	21.6	55.4	592.5	565.5	118.0	100.4	68.0	24.0	8.0	4.0	1.6	
27	6.2	18.6	51.8	671.4	537.0	105.0	98.6	68.0	23.4	7.4	3.8	1.8	
28	5.9	16.4	53.6	745.0	518.2	92.3	95.9	67.1	21.6	7.4	3.8	1.9	
29	6.2	14.8	58.1	813.8	479.0	83.3	92.3	66.2	20.4	7.1		1.9	
30	6.2	14.0	68.0	874.6	449.6	74.3	87.8	64.4	19.2	7.1		1.9	
31		12.8		921.3	421.6		84.2		18.6	6.8		2.1	
TOTAL	200.2	308.9	1173.8	8381.8	24047.4	8182.5	3347.4	2109.3	1433.0	340.1	140.0	77.2	50241.5 CMSDAY
MEAN	6.7	10.0	39.1	286.5	775.7	272.7	108.0	70.3	46.2	11.0	5.0	2.5	137.6 CMS
MAX	11.9	28.0	68.0	921.3	985.0	420.2	137.3	81.5	65.3	17.6	6.8	3.8	985.0 CMS
MIN	4.8	4.2	16.4	77.0	421.6	74.3	70.7	64.4	18.6	6.8	3.8	1.6	1.6 CMS
RUNOFF	17.30	26.69	101.42	767.39	2077.69	706.97	289.22	182.24	123.81	29.38	12.10	6.67	4340.87 MCM

MOMENTARY PEAK 985.00 CMS, AT 117.95 M (MSL), AT 6.00 HOURS, ON AUG 4, 1981

RUNOFF YIELD 3.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 22.25 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

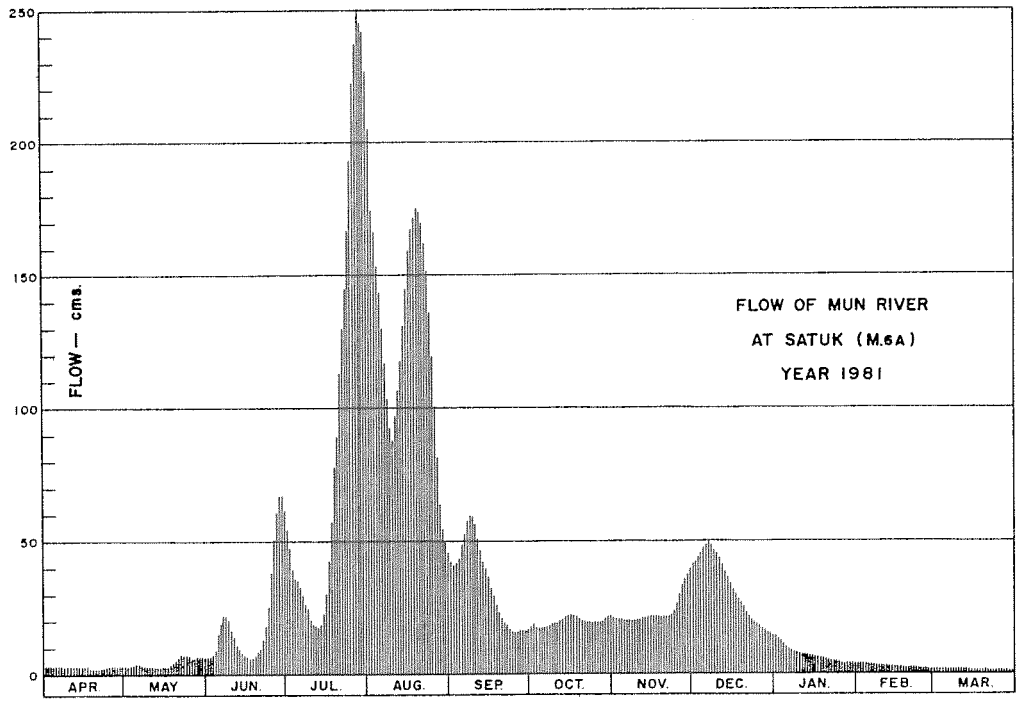
MUN RIVER AT SATUK, BURI RAM (M.6A)

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	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	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	1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1976 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 139 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	124.57	124.56	124.77	126.11	128.24	125.85	125.26	125.36	125.84	125.15	124.61	124.45	
2	124.58	124.56	124.79	125.94	127.98	125.83	125.28	125.35	125.86	125.12	124.60	124.45	
3	124.58	124.55	124.81	125.81	127.88	125.85	125.26	125.35	125.89	125.08	124.60	124.44	
4	124.58	124.56	124.89	125.75	127.82	125.88	125.23	125.34	125.93	125.04	124.59	124.44	
5	124.57	124.62	125.08	125.72	127.65	125.97	125.24	125.34	125.97	125.00	124.59	124.44	
6	124.56	124.60	125.30	125.66	127.46	126.08	125.25	125.34	126.02	124.96	124.59	124.44	
7	124.55	124.58	125.40	125.58	127.29	126.19	125.24	125.33	126.04	124.94	124.60	124.44	
8	124.57	124.57	125.38	125.50	127.08	126.23	125.24	125.33	126.00	124.92	124.61	124.43	
9	124.56	124.56	125.31	125.43	126.83	126.22	125.27	125.33	125.95	124.90	124.61	124.43	
10	124.56	124.56	125.21	125.35	126.75	126.16	125.29	125.33	125.91	124.89	124.60	124.43	
11	124.55	124.54	125.11	125.31	126.85	126.07	125.30	125.34	125.87	124.88	124.59	124.43	
12	124.56	124.52	125.01	125.28	126.94	125.97	125.31	125.35	125.83	124.87	124.58	124.43	
13	124.58	124.51	124.93	125.26	127.09	125.88	125.36	125.37	125.77	124.85	124.58	124.42	
14	124.59	124.52	124.88	125.27	127.26	125.81	125.38	125.38	125.74	124.83	124.57	124.42	
15	124.56	124.54	124.84	125.41	127.42	125.75	125.38	125.39	125.69	124.82	124.56	124.41	
16	124.55	124.53	124.80	125.58	127.56	125.68	125.39	125.40	125.64	124.81	124.55	124.41	
17	124.55	124.55	124.77	125.86	127.67	125.60	125.40	125.39	125.60	124.80	124.54	124.40	
18	124.54	124.56	124.75	126.17	127.73	125.52	125.39	125.38	125.56	124.79	124.53	124.40	
19	124.53	124.63	124.77	126.40	127.77	125.45	125.38	125.39	125.52	124.78	124.52	124.39	
20	124.52	124.73	124.80	126.65	127.76	125.38	125.35	125.38	125.48	124.76	124.51	124.39	
21	124.51	124.81	124.95	127.01	127.73	125.31	125.32	125.37	125.45	124.74	124.50	124.39	
22	124.53	124.84	125.08	127.28	127.62	125.27	125.30	125.37	125.39	124.73	124.49	124.38	
23	124.53	124.84	125.21	127.48	127.50	125.23	125.30	125.39	125.34	124.71	124.48	124.38	
24	124.53	124.83	125.41	127.68	127.34	125.20	125.30	125.42	125.29	124.70	124.48	124.37	
25	124.54	124.84	125.76	127.88	127.16	125.18	125.32	125.51	125.27	124.69	124.48	124.37	
26	124.55	124.82	126.05	128.09	126.92	125.17	125.31	125.59	125.24	124.67	124.47	124.37	
27	124.56	124.70	126.23	128.27	126.62	125.21	125.30	125.67	125.23	124.66	124.46	124.37	
28	124.57	124.78	126.36	128.43	126.33	125.20	125.32	125.73	125.20	124.65	124.46	124.37	
29	124.56	124.78	126.37	128.51	126.10	125.20	125.35	125.77	125.18	124.64		124.38	
30	124.57	124.78	126.28	128.47	126.04	125.20	125.37	125.81	125.16	124.63		124.38	
31		124.77		128.39	125.90		125.38		125.14	124.62		124.42	
MEAN	124.56	124.65	125.24	126.50	127.24	125.65	125.32	125.43	125.61	124.83	124.55	124.41	
MAX	124.59	124.84	126.37	128.51	128.24	126.23	125.40	125.81	126.04	125.15	124.61	124.45	128.51
MIN	124.51	124.51	124.75	125.26	125.90	125.17	125.23	125.33	125.14	124.62	124.46	124.37	124.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 128.51 M (MSL), AT 24.00 HOURS, ON JUL 29, 1981
ZERO GAGE AT BOTTOM ELEVATION 124.00 M (MSL), RIVER BED 121.56 M (MSL)
LEFT BANK ELEVATION 131.92 M (MSL)
RIGHT BANK ELEVATION 132.99 M (MSL), DRAINAGE AREA 28275 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.37	3.25	6.05	53.50	210.00	41.25	17.80	20.80	40.80	14.50	3.87	2.00	
2	3.50	3.25	6.35	45.30	176.60	40.35	18.40	20.50	41.70	13.60	3.75	2.00	
3	3.50	3.12	6.65	39.45	165.00	41.25	17.80	20.50	43.05	12.40	3.75	1.90	
4	3.50	3.25	7.85	36.75	159.00	42.60	16.90	20.20	44.85	11.20	3.62	1.90	
5	3.37	4.00	12.40	35.40	143.50	46.65	17.20	20.20	46.65	10.00	3.62	1.90	
6	3.25	3.75	19.00	32.70	127.30	52.00	17.50	20.20	49.00	9.20	3.62	1.90	
7	3.12	3.50	22.00	29.20	114.85	57.50	17.20	19.90	50.00	8.80	3.75	1.90	
8	3.37	3.37	21.40	26.00	102.50	59.50	17.20	19.90	48.00	8.40	3.87	1.80	
9	3.25	3.25	19.30	23.20	90.00	59.00	18.10	19.90	45.75	8.00	3.87	1.80	
10	3.25	3.25	16.30	20.50	86.25	56.00	18.70	19.90	43.95	7.85	3.75	1.80	
11	3.12	3.00	13.30	19.30	97.00	51.50	19.00	20.20	42.15	7.70	3.62	1.80	
12	3.25	2.75	10.30	18.40	103.50	46.65	19.30	20.50	40.35	7.55	3.50	1.80	
13	3.50	2.62	8.60	17.80	114.75	42.60	20.80	21.10	37.65	7.25	3.50	1.70	
14	3.62	2.75	7.70	18.10	128.10	39.45	21.40	21.40	36.30	6.95	3.37	1.70	
15	3.25	3.00	7.10	22.40	141.80	36.75	21.40	21.70	34.05	6.80	3.25	1.60	
16	3.12	2.87	6.50	29.20	154.40	33.60	21.70	22.00	31.80	6.65	3.12	1.60	
17	3.12	3.12	6.05	41.70	165.00	30.00	22.00	21.70	30.00	6.50	3.00	1.50	
18	3.00	3.25	5.75	56.50	171.00	26.80	21.70	21.40	28.40	6.35	2.87	1.50	
19	2.87	4.12	6.05	68.50	175.00	24.00	21.40	21.70	26.80	6.20	2.75	1.40	
20	2.75	5.45	6.50	83.25	174.00	21.40	20.50	21.40	25.20	5.90	2.62	1.40	
21	2.62	6.65	9.00	108.75	171.00	19.30	19.60	21.10	24.00	5.60	2.50	1.40	
22	2.87	7.10	12.40	129.80	160.00	18.10	19.00	21.10	21.70	5.45	2.40	1.30	
23	2.87	7.10	16.30	147.20	149.00	16.90	19.00	21.70	20.20	5.15	2.30	1.30	
24	2.87	6.95	22.40	166.00	134.90	16.00	19.00	22.80	18.70	5.00	2.30	1.20	
25	3.00	7.10	37.20	186.00	120.00	15.40	19.60	26.40	18.10	4.87	2.30	1.20	
26	3.12	6.80	50.50	207.45	102.00	15.10	19.30	29.60	17.20	4.63	2.20	1.20	
27	3.25	5.00	59.50	226.70	81.30	16.30	19.00	33.15	16.90	4.50	2.10	1.20	
28	3.37	6.20	66.30	244.60	64.65	16.00	19.60	35.85	16.00	4.37	2.10	1.20	
29	3.25	6.20	66.85	254.20	53.00	16.00	20.50	37.65	15.40	4.25		1.30	
30	3.37	6.20	62.00	245.90	50.00	16.00	21.10	39.45	14.80	4.12		1.30	
31		6.05		232.50	43.50		21.40		14.20	4.00		1.70	
TOTAL	95.67	138.27	617.60	2866.25	3928.90	1013.95	603.10	703.90	983.65	223.74	87.27	49.20	11311.49 CMSDAY
MEAN	3.19	4.46	20.59	92.46	126.74	33.80	19.45	23.46	31.73	7.22	3.12	1.59	30.99 CMS
MAX	3.62	7.10	66.85	254.20	210.00	59.50	22.00	39.45	50.00	14.50	3.87	2.00	254.20 CMS
MIN	2.62	2.62	5.75	17.80	43.50	15.10	16.90	19.90	14.20	4.00	2.10	1.20	1.20 CMS
RUNOFF	8.266	11.947	53.361	247.644	339.457	87.605	52.108	60.817	84.987	19.331	7.540	4.251	977.312 MCM

MOMENTARY PEAK 254.20 CMS, AT 128.51 M (MSL), AT 24.00 HOURS, ON JUL 29, 1981

RUNOFF YIELD 1.10 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 8.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

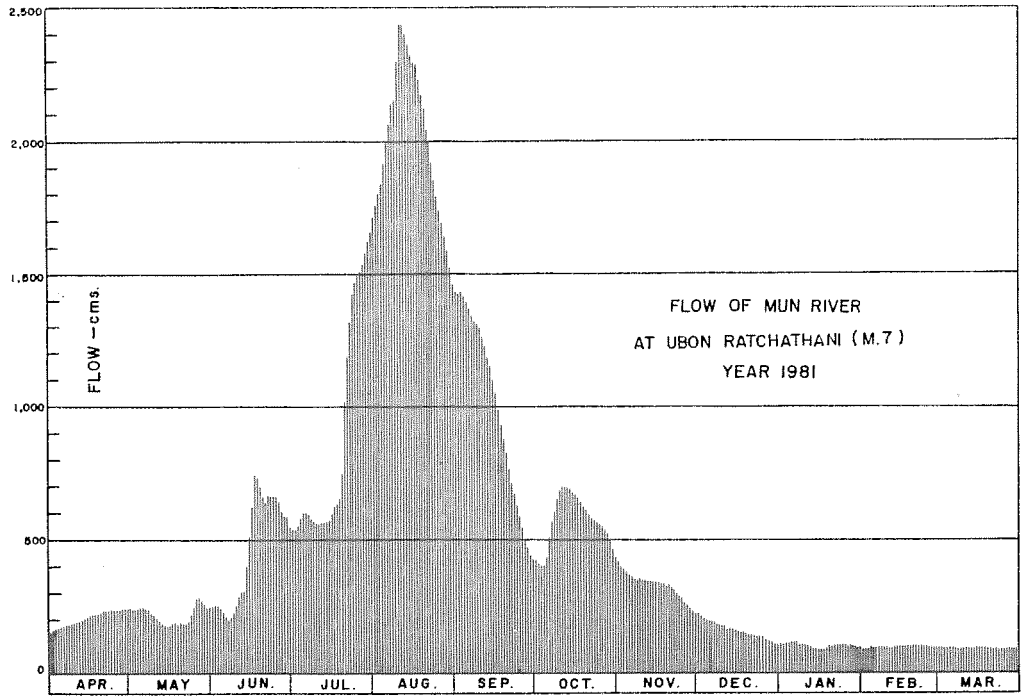
MUN RIVER AT UBON RATCHATHANI, UBON RATCHATHANI (M.7)

LOCATION	LAT. 15-13-17 N., LONG. 104-51-39 E., ON LEFT BANK AT THE ABUTMENT OF SERI PRACHATHIPPATAI BRIDGE, AMPHOE MUANG, UBON RATCHATHANI.
DRAINAGE AREA	106,673 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+105.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE ABUTMENT OF THE BRIDGE.
ELEVATION	+113.317 M. (M.S.L.)
GAGE READING FREQUENCY	3-TIME DAILY READINGS AT 07.00, 12.00 AND 17.00 HOURS.
BASIS OF MEAN DAILY GAGE HEIGHT	ARITHMETIC MEAN OF 3 READINGS.
PERIOD OF AVAILABLE GAGE RECORDS	1948 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1956-1958, 1964 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1956-1958, 1964 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	107.00	107.32	107.35	108.23	111.08	110.36	107.86	107.87	107.23	106.77	106.68	106.72	
2	106.99	107.31	107.36	108.23	111.16	110.36	107.85	107.82	107.20	106.77	106.69	106.72	
3	107.01	107.30	107.35	108.27	111.21	110.37	107.84	107.78	107.18	106.78	106.70	106.72	
4	107.03	107.34	107.29	108.35	111.27	110.35	107.84	107.78	107.15	106.80	106.71	106.72	
5	107.04	107.34	107.23	108.40	111.47	110.30	107.98	107.76	107.12	106.80	106.72	106.72	
6	107.05	107.33	107.18	108.42	111.65	110.24	108.23	107.72	107.13	106.80	106.73	106.71	
7	107.06	107.30	107.16	108.38	111.78	110.18	108.38	107.69	107.11	106.80	106.73	106.70	
8	107.07	107.28	107.20	108.32	111.87	110.12	108.49	107.69	107.08	106.79	106.73	106.70	
9	107.09	107.25	107.32	108.30	111.90	110.10	108.61	107.70	107.06	106.77	106.73	106.70	
10	107.09	107.19	107.41	108.29	112.20	110.06	108.66	107.69	107.05	106.76	106.73	106.71	
11	107.11	107.15	107.53	108.29	112.46	110.00	108.67	107.69	107.04	106.74	106.73	106.72	
12	107.12	107.11	107.56	108.30	112.47	109.91	108.66	107.69	107.02	106.72	106.73	106.72	
13	107.14	107.09	107.58	108.31	112.42	109.83	108.65	107.69	107.01	106.70	106.73	106.72	
14	107.17	107.06	107.89	108.33	112.34	109.73	108.63	107.68	107.01	106.69	106.74	106.72	
15	107.20	107.05	108.33	108.34	112.24	109.63	108.60	107.67	107.01	106.69	106.75	106.72	
16	107.23	107.07	108.64	108.45	112.19	109.50	108.58	107.65	106.99	106.68	106.75	106.72	
17	107.23	107.12	108.79	108.49	112.16	109.37	108.54	107.64	106.96	106.69	106.75	106.71	
18	107.23	107.09	108.77	108.52	112.08	109.25	108.51	107.63	106.95	106.72	106.76	106.70	
19	107.24	107.07	108.66	108.62	111.97	109.13	108.47	107.62	106.94	106.73	106.76	106.70	
20	107.24	107.08	108.54	108.95	111.84	108.97	108.42	107.61	106.93	106.74	106.75	106.70	
21	107.28	107.09	108.53	109.57	111.71	108.84	108.37	107.59	106.92	106.75	106.75	106.70	
22	107.29	107.08	108.59	109.97	111.58	108.71	108.32	107.56	106.91	106.76	106.75	106.69	
23	107.29	107.18	108.57	110.21	111.43	108.59	108.31	107.51	106.91	106.77	106.75	106.69	
24	107.29	107.24	108.57	110.40	111.23	108.46	108.29	107.47	106.89	106.76	106.74	106.69	
25	107.29	107.36	108.57	110.49	111.15	108.36	108.28	107.43	106.87	106.76	106.73	106.69	
26	107.29	107.47	108.53	110.53	111.02	108.25	108.26	107.38	106.84	106.76	106.73	106.69	
27	107.30	107.47	108.42	110.56	110.91	108.13	108.21	107.34	106.83	106.76	106.73	106.70	
28	107.30	107.42	108.35	110.64	110.80	108.03	108.15	107.30	106.80	106.75	106.72	106.72	
29	107.29	107.35	108.37	110.75	110.68	107.95	108.08	107.26	106.79	106.74		106.72	
30	107.32	107.33	108.24	110.86	110.55	107.91	107.99	107.23	106.78	106.72		106.71	
31		107.35		110.97	110.41		107.92		106.77	106.70		106.70	
MEAN	107.18	107.23	108.00	109.12	111.59	109.37	108.31	107.60	106.98	106.75	106.73	106.71	
MAX	107.32	107.47	108.79	110.97	112.47	110.37	108.67	107.87	107.23	106.80	106.76	106.72	112.47
MIN	106.99	107.05	107.16	108.23	110.41	107.91	107.84	107.23	106.77	106.68	106.68	106.69	106.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 112.48 M (MSL), AT 6.00 HOURS, ON AUG 12, 1981
ZERO GAGE AT BOTTOM ELEVATION 105.00 M (MSL), RIVER BED 100.95 M (MSL)
LEFT BANK ELEVATION 120.80 M (MSL)
RIGHT BANK ELEVATION 117.36 M (MSL), DRAINAGE AREA 106673 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	160.0	240.0	247.5	540.3	1751.0	1427.0	407.5	411.0	217.5	106.1	86.4	94.6	
2	157.6	237.5	250.0	540.3	1787.0	1427.0	403.9	393.1	210.0	106.1	88.2	94.6	
3	162.5	235.0	247.5	554.7	1810.0	1431.5	400.3	378.7	205.0	108.4	90.0	94.6	
4	167.5	245.0	232.5	583.4	1840.0	1422.5	400.3	378.7	197.5	113.0	92.3	94.6	
5	170.0	245.0	217.5	601.4	1940.0	1400.0	450.5	371.5	190.0	113.0	94.6	94.6	
6	172.5	242.5	205.0	608.5	2030.0	1373.0	540.3	357.2	192.5	113.0	96.9	92.3	
7	175.0	235.0	200.0	594.2	2095.0	1346.0	594.2	347.0	187.5	113.0	96.9	90.0	
8	177.5	230.0	210.0	572.6	2140.0	1319.0	633.7	347.0	180.0	110.7	96.9	90.0	
9	182.5	222.5	240.0	565.5	2155.0	1310.0	676.8	350.0	175.0	106.1	96.9	90.0	
10	182.5	207.5	263.0	561.9	2305.0	1292.0	694.7	347.0	172.5	103.8	96.9	92.3	
11	187.5	197.5	299.0	561.9	2435.0	1265.0	698.3	347.0	170.0	99.2	96.9	94.6	
12	190.0	187.5	308.0	565.5	2440.0	1224.5	694.7	347.0	165.0	94.6	96.9	94.6	
13	195.0	182.5	314.0	569.0	2415.0	1188.5	691.1	347.0	162.5	90.0	96.9	94.6	
14	202.5	175.0	418.2	576.2	2375.0	1149.5	684.0	344.0	162.5	88.2	99.2	94.6	
15	210.0	172.5	576.2	579.8	2325.0	1098.5	673.2	341.0	162.5	88.2	101.5	94.6	
16	217.5	177.5	687.5	619.3	2300.0	1040.0	666.0	335.0	157.6	86.4	101.5	94.6	
17	217.5	190.0	741.4	633.7	2285.0	981.5	651.6	332.0	150.4	88.2	101.5	92.3	
18	217.5	182.5	734.2	644.5	2245.0	927.5	640.9	329.0	148.0	94.6	103.8	90.0	
19	220.0	177.5	694.7	680.4	2190.0	877.0	626.5	326.0	145.6	96.9	103.8	90.0	
20	220.0	180.0	651.6	805.0	2125.0	813.0	608.5	323.0	143.2	99.2	101.5	90.0	
21	230.0	182.5	648.0	1071.5	2060.0	761.0	590.6	317.0	140.8	101.5	101.5	90.0	
22	232.5	180.0	669.6	1251.5	1995.0	712.7	572.6	308.0	138.4	103.8	101.5	88.2	
23	232.5	205.0	662.4	1359.5	1920.0	669.6	569.0	293.0	138.4	106.1	101.5	88.2	
24	232.5	220.0	662.4	1445.0	1820.0	622.9	561.9	281.0	133.7	103.8	99.2	88.2	
25	232.5	250.0	662.4	1485.5	1782.5	587.0	558.3	269.0	129.1	103.8	96.9	88.2	
26	232.5	281.0	648.0	1503.5	1724.0	547.5	551.1	255.0	122.2	103.8	96.9	88.2	
27	235.0	281.0	608.5	1517.0	1674.5	504.4	533.1	245.0	119.9	103.8	96.9	90.0	
28	235.0	266.0	583.4	1553.0	1625.0	468.5	511.6	235.0	113.0	101.5	94.6	94.6	
29	232.5	247.5	590.6	1602.5	1571.0	439.8	486.5	225.0	110.7	99.2		94.6	
30	240.0	242.5	543.9	1652.0	1512.5	425.4	454.1	217.5	108.4	94.6		92.3	
31		247.5		1701.5	1449.5		429.0		106.1	90.0		90.0	
TOTAL	6120.1	6765.5	14017.0	28100.6	62122.0	30045.8	17654.8	9697.7	4855.5	3130.6	2728.5	2850.0	188087.9 CMSDAY
MEAN	204.0	218.2	467.2	906.5	2003.9	1001.5	569.5	323.3	156.6	101.0	97.4	91.9	515.3 CMS
MAX	240.0	281.0	741.4	1701.5	2440.0	1431.5	698.3	411.0	217.5	113.0	103.8	94.6	2440.0 CMS
MIN	157.6	172.5	200.0	540.3	1449.5	425.4	400.3	217.5	106.1	86.4	86.4	88.2	86.4 CMS
RUNOFF	528.78	584.54	1211.07	2427.89	5367.34	2595.96	1525.37	837.88	419.51	270.48	235.74	246.24	16250.79 MCM

MOMENTARY PEAK 2445.00 CMS, AT 112.48 M (MSL), AT 6.00 HOURS, ON AUG 12, 1981

RUNOFF YIELD 4.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 22.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

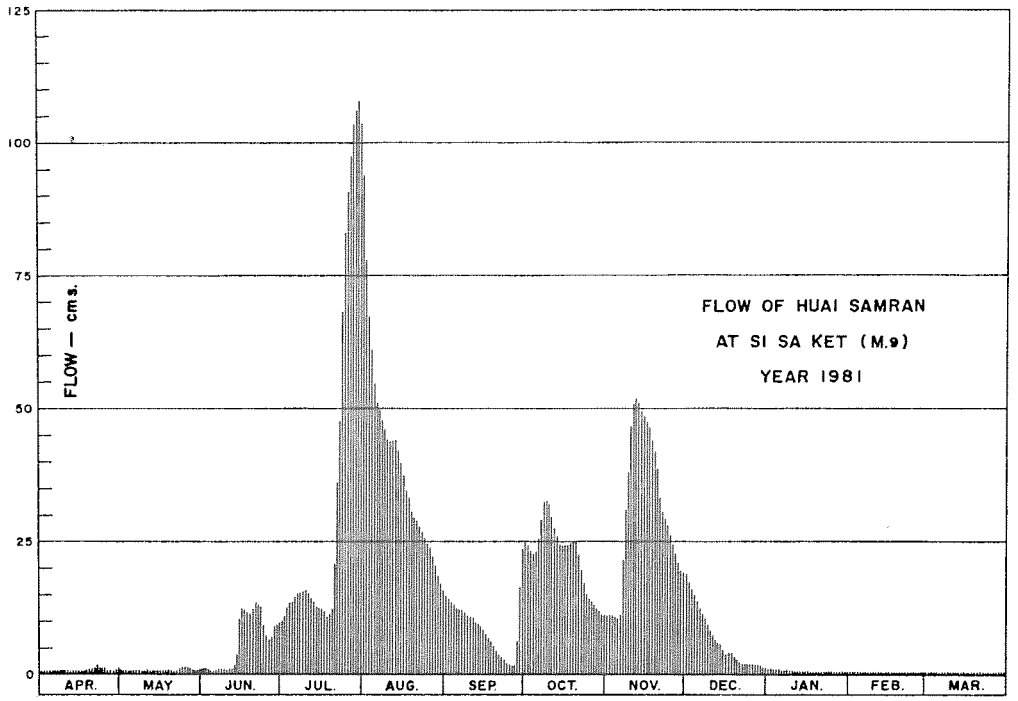
HUAI SAMRAN AT SI SA KET, SI SA KET (M.9)

LOCATION	LAT. 15°-07'-00" N., LONG. 104°-19'-20" E., ON LEFT BANK DOWNSTREAM SIDE OF THE BRIDGE AND ABOUT 200 METERS NORTH OF CITY JAIL, AMPHOE MUANG, SI SA KET.
DRAINAGE AREA	3,026 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+109.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON RIGHT BANK ALONG THE MEASURING LINE.
ELEVATION	+122.055 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	1954, 1972 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1954, 1972 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	109.20	109.44	109.67	111.12	116.18	112.74	111.92	111.03	111.60	109.51	109.18	108.96	
2	109.19	109.41	109.54	111.12	116.12	112.64	111.90	111.03	111.47	109.49	109.19	108.96	
3	109.20	109.31	109.48	111.39	116.02	112.54	111.82	111.04	111.38	109.47	109.18	108.98	
4	109.18	109.36	109.40	111.50	115.91	112.45	111.78	111.01	111.34	109.45	109.16	108.97	
5	109.17	109.33	109.36	111.50	115.77	112.41	111.81	110.97	111.24	109.45	109.16	108.97	
6	109.17	109.30	109.36	111.57	115.65	112.39	111.87	111.05	111.15	109.46	109.11	108.97	
7	109.16	109.27	109.41	111.64	115.61	112.36	112.10	111.57	111.06	109.44	109.02	108.96	
8	109.15	109.27	109.47	111.65	115.58	112.28	112.26	112.16	110.96	109.40	109.02	108.96	
9	109.16	109.25	109.42	111.60	115.51	112.23	112.29	112.55	110.89	109.37	109.01	108.96	
10	109.17	109.25	109.38	111.64	115.43	112.14	112.22	112.77	110.80	109.36	109.01	108.98	
11	109.16	109.28	109.51	111.67	115.42	112.05	112.12	112.87	110.67	109.37	109.01	108.98	
12	109.18	109.29	109.64	111.58	115.42	111.94	112.02	112.90	110.59	109.44	109.01	108.98	
13	109.15	109.30	109.55	111.51	115.43	111.88	111.94	112.89	110.55	109.40	109.01	108.99	
14	109.17	109.28	110.22	111.40	115.38	111.79	111.89	112.86	110.58	109.36	108.98	108.99	
15	109.17	109.26	111.16	111.38	115.27	111.70	111.85	112.82	110.34	109.34	108.97	108.98	
16	109.26	109.35	111.41	111.39	115.10	111.55	111.87	112.78	110.21	109.33	108.97	108.97	
17	109.47	109.30	111.35	111.35	114.96	111.37	111.88	112.73	110.26	109.33	108.98	108.98	
18	109.53	109.29	111.31	111.21	114.83	111.20	111.88	112.66	110.28	109.31	108.97	108.99	
19	109.59	109.29	111.29	111.19	114.70	111.04	111.92	112.59	110.20	109.29	108.97	108.99	
20	109.56	109.34	111.35	111.39	114.57	110.88	111.93	112.47	110.12	109.19	108.96	108.98	
21	109.63	109.33	111.50	112.06	114.50	110.70	111.80	112.29	110.01	109.09	108.96	108.98	
22	109.99	109.31	111.49	112.96	114.40	110.50	111.65	112.18	109.92	109.34	108.97	108.98	
23	109.72	109.51	111.43	113.82	114.30	110.34	111.51	112.13	109.87	109.22	108.96	108.99	
24	109.56	109.69	111.08	114.50	114.17	110.18	111.40	112.07	109.81	109.19	108.97	108.99	
25	109.49	109.78	110.86	114.99	114.07	110.05	111.34	111.95	109.77	109.18	108.96	108.98	
26	109.42	109.77	110.65	115.37	113.97	109.94	111.25	111.85	109.76	109.20	108.96	108.98	
27	109.37	109.56	110.64	115.66	113.81	109.89	111.18	111.77	109.72	109.19	108.95	108.99	
28	109.27	109.51	110.88	115.90	113.58	110.52	111.13	111.72	109.70	109.19	108.96	108.98	
29	109.31	109.42	111.06	116.06	113.36	111.50	111.08	111.62	109.68	109.20		108.99	
30	109.82	109.38	111.11	116.15	113.11	111.83	111.06	111.60	109.64	109.20		108.99	
31		109.38		116.20	112.91		111.03		109.63	109.19		108.99	
MEAN	109.35	109.38	110.40	112.66	114.87	111.50	111.73	112.06	110.43	109.32	109.02	108.98	
MAX	109.99	109.78	111.50	116.20	116.18	112.74	112.29	112.90	111.60	109.51	109.19	108.99	116.20
MIN	109.15	109.25	109.36	111.12	112.91	109.89	111.03	110.97	109.63	109.09	108.95	108.96	108.95

ANNUAL MAX MOMENTARY GAGE HEIGHT 116.21 M (MSL), AT 1:00 HOURS, ON JUL 31, 1981
ZERO GAGE AT BOTTOM ELEVATION 109.00 M (MSL), RIVER BED 109.20 M (MSL)
LEFT BANK ELEVATION 123.09 M (MSL)
RIGHT BANK ELEVATION 124.88 M (MSL), DRAINAGE AREA 3026 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.72	1.41	9.88	101.28	14.58	25.00	10.76	18.70	0.93	0.27	0.00	
2	0.28	0.63	1.02	9.88	82.32	13.94	24.60	10.76	16.75	0.87	0.28	0.00	
3	0.30	0.47	0.84	12.40	69.28	13.34	23.00	10.88	15.40	0.81	0.27	0.00	
4	0.27	0.54	0.60	13.50	62.20	12.80	22.20	10.52	14.80	0.75	0.24	0.00	
5	0.26	0.49	0.54	13.50	55.54	12.56	22.80	10.10	13.36	0.75	0.24	0.00	
6	0.26	0.45	0.54	14.27	50.80	12.44	24.00	11.00	12.20	0.78	0.16	0.00	
7	0.24	0.40	0.63	15.04	49.36	12.26	28.60	18.25	11.12	0.72	0.03	0.00	
8	0.22	0.40	0.81	15.15	48.40	11.78	32.12	29.92	10.00	0.60	0.03	0.00	
9	0.24	0.38	0.66	14.60	46.30	11.48	32.78	40.10	9.30	0.56	0.01	0.00	
10	0.26	0.38	0.57	15.04	44.18	10.94	31.24	46.98	8.40	0.54	0.01	0.00	
11	0.24	0.42	0.93	15.37	43.92	10.45	29.04	50.66	7.10	0.56	0.01	0.00	
12	0.27	0.43	1.32	14.38	43.92	9.90	27.00	51.80	6.32	0.72	0.01	0.00	
13	0.22	0.45	1.05	13.61	44.18	9.60	25.40	51.42	6.00	0.60	0.01	0.00	
14	0.26	0.42	3.60	12.50	42.92	9.15	24.40	50.28	6.24	0.54	0.00	0.00	
15	0.26	0.39	10.24	12.30	40.34	8.70	23.60	48.76	4.44	0.51	0.00	0.00	
16	0.39	0.52	12.60	12.40	37.00	7.95	24.00	47.32	3.66	0.49	0.00	0.00	
17	0.81	0.45	12.00	12.00	34.62	7.05	24.20	45.62	3.96	0.49	0.00	0.00	
18	0.99	0.43	11.60	10.69	33.62	6.20	24.20	43.40	4.08	0.47	0.00	0.00	
19	1.17	0.43	11.41	10.51	31.00	5.40	25.00	41.30	3.60	0.43	0.00	0.00	
20	1.08	0.51	12.00	12.40	29.47	4.72	25.20	37.76	3.20	0.28	0.00	0.00	
21	1.29	0.49	13.50	19.92	28.70	4.00	22.60	32.78	2.65	0.13	0.00	0.00	
22	2.46	0.47	13.40	32.96	27.60	3.20	19.65	30.36	2.20	0.51	0.00	0.00	
23	1.56	0.93	12.80	48.60	26.70	2.72	17.35	29.26	2.01	0.33	0.00	0.00	
24	1.08	1.47	9.52	63.20	25.53	2.24	15.70	28.00	1.83	0.28	0.00	0.00	
25	0.87	1.74	7.72	75.54	24.63	1.85	14.80	25.60	1.71	0.27	0.00	0.00	
26	0.66	1.71	6.25	85.42	23.73	1.52	13.50	23.60	1.68	0.30	0.00	0.00	
27	0.56	1.08	6.18	92.96	22.29	1.38	12.56	22.00	1.56	0.28	0.00	0.00	
28	0.40	0.93	7.86	99.20	20.46	5.76	11.96	21.00	1.50	0.28	0.00	0.00	
29	0.47	0.66	9.34	103.68	18.92	17.20	11.36	19.08	1.44	0.30		0.00	
30	1.86	0.57	9.79	106.20	17.17	23.20	11.12	18.70	1.32	0.30		0.00	
31		0.57		107.60	15.77		10.76		1.29	0.28		0.00	
TOTAL	19.53	19.93	180.73	1094.70	1242.15	268.31	679.74	917.97	197.82	15.66	1.57	0.00	4638.10 CMSDAY
MEAN	0.65	0.64	6.02	35.31	40.07	8.94	21.93	30.60	6.38	0.51	0.06	0.00	12.71 CMS
MAX	2.46	1.74	13.50	107.60	101.28	23.20	32.78	51.80	18.70	0.93	0.28	0.00	107.60 CMS
MIN	0.22	0.38	0.54	9.88	15.77	1.38	10.76	10.10	1.29	0.13	0.00	0.00	0.00 CMS
RUNOFF	1.687	1.722	15.615	94.582	107.322	23.182	58.729	79.313	17.092	1.353	0.136	0.000	400.732 MCM

MOMENTARY PEAK 107.88 CMS, AT 116.21 M (MSL), AT 1.00 HOURS, ON JUL 31, 1981

RUNOFF YIELD 4.20 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.65 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

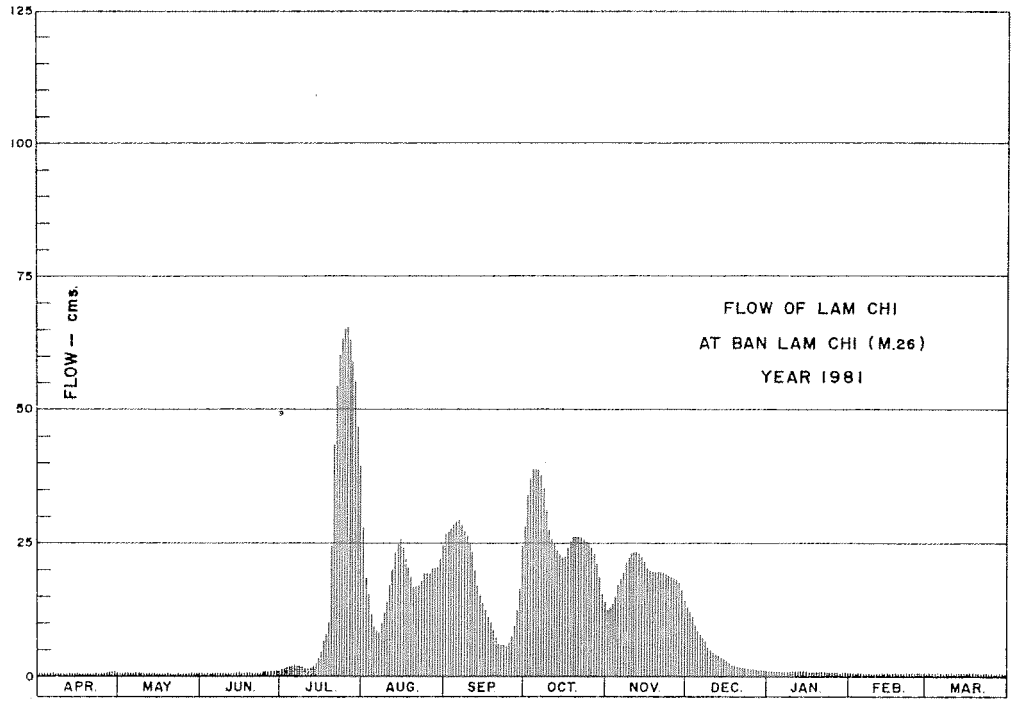
LAM CHI AT BAN LAM CHI, SURIN (M.26)

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 AT	+127.00 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF 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	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 157 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	127.46	127.55	127.59	127.85	130.72	130.73	130.89	129.47	129.54	127.75	127.55	127.53	
2	127.46	127.49	127.64	128.00	130.04	130.80	131.37	129.50	129.42	127.72	127.55	127.51	
3	127.44	127.48	127.66	128.11	129.60	130.81	131.64	129.58	129.31	127.70	127.54	127.54	
4	127.48	127.49	127.55	128.13	129.34	130.88	131.76	129.74	129.20	127.68	127.54	127.53	
5	127.49	127.49	127.52	128.17	129.18	130.95	131.77	129.91	129.09	127.68	127.53	127.52	
6	127.46	127.49	127.54	128.21	129.04	130.99	131.74	130.05	128.97	127.67	127.52	127.52	
7	127.49	127.52	127.53	128.23	129.01	130.94	131.65	130.14	128.88	127.65	127.54	127.51	
8	127.48	127.62	127.53	128.15	129.17	130.82	131.47	130.23	128.81	127.64	127.53	127.51	
9	127.47	127.60	127.53	128.08	129.42	130.74	131.06	130.38	128.69	127.67	127.53	127.51	
10	127.46	127.58	127.52	128.02	129.64	130.64	130.76	130.44	128.62	127.64	127.52	127.51	
11	127.44	127.60	127.51	127.98	129.92	130.42	130.67	130.45	128.55	127.63	127.53	127.55	
12	127.44	127.55	127.53	127.94	130.22	130.20	130.63	130.45	128.49	127.61	127.54	127.53	
13	127.45	127.53	127.52	128.01	130.47	129.92	130.52	130.44	128.44	127.59	127.53	127.48	
14	127.44	127.57	127.52	128.19	130.61	129.72	130.42	130.41	128.41	127.57	127.53	127.45	
15	127.47	127.57	127.52	128.33	130.68	129.63	130.37	130.32	128.35	127.65	127.52	127.50	
16	127.48	127.61	127.55	128.53	130.59	129.53	130.39	130.19	128.32	127.62	127.65	127.54	
17	127.46	127.56	127.54	128.78	130.38	129.39	130.52	130.13	128.21	127.62	127.73	127.52	
18	127.46	127.54	127.59	128.93	130.14	129.21	130.63	130.13	128.13	127.60	127.74	127.51	
19	127.48	127.60	127.63	129.16	129.94	129.02	130.72	130.15	128.04	127.62	127.63	127.50	
20	127.50	127.59	127.74	130.28	129.87	128.88	130.71	130.16	127.99	127.62	127.59	127.52	
21	127.53	127.57	127.64	131.86	129.90	128.75	130.70	130.15	127.97	127.61	127.66	127.50	
22	127.55	127.55	127.69	132.81	129.90	128.74	130.68	130.14	127.95	127.59	127.67	127.50	
23	127.53	127.55	127.67	133.22	129.98	128.76	130.66	130.13	127.91	127.57	127.66	127.49	
24	127.52	127.57	127.65	133.41	130.18	128.76	130.63	130.11	127.85	127.57	127.65	127.49	
25	127.50	127.58	127.69	133.56	130.14	128.80	130.59	130.08	127.81	127.58	127.64	127.48	
26	127.48	127.59	127.72	133.58	130.10	128.95	130.52	130.05	127.82	127.56	127.66	127.53	
27	127.52	127.66	127.74	133.43	130.21	129.12	130.43	130.02	127.79	127.56	127.65	127.51	
28	127.58	127.62	127.73	133.13	130.21	129.45	130.25	129.95	127.76	127.58	127.59	127.52	
29	127.58	127.65	127.78	132.72	130.22	129.85	130.03	129.83	127.76	127.58		127.57	
30	127.57	127.66	127.86	132.14	130.32	130.34	129.79	129.72	127.77	127.57		127.59	
31		127.64		131.45	130.54		129.59		127.73	127.55		127.57	
MEAN	127.49	127.57	127.61	129.95	129.99	129.86	130.76	130.08	128.37	127.62	127.59	127.52	
MAX	127.58	127.66	127.86	133.58	130.72	130.99	131.77	130.45	129.54	127.75	127.74	127.59	133.58
MIN	127.44	127.48	127.51	127.85	129.01	128.74	129.59	129.47	127.73	127.55	127.52	127.45	127.44

ANNUAL MAX MOMENTARY GAGE HEIGHT 133.60 M (MSL), AT 8.00 HOURS, ON JUL 26, 1981
ZERO GAGE AT BOTTOM ELEVATION 127.00 M (MSL), RIVER BED 127.06 M (MSL)
LEFT BANK ELEVATION 139.99 M (MSL)
RIGHT BANK ELEVATION 139.99 M (MSL), DRAINAGE AREA 2927 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.15	0.37	0.48	1.12	26.24	26.36	28.28	12.30	13.00	0.88	0.37	0.33	
2	0.15	0.22	0.60	1.50	18.08	27.20	34.04	12.60	11.80	0.80	0.37	0.27	
3	0.10	0.20	0.65	1.98	13.60	27.32	37.28	13.40	10.70	0.75	0.35	0.35	
4	0.20	0.22	0.37	1.95	11.00	28.16	38.84	15.00	9.60	0.70	0.35	0.33	
5	0.22	0.22	0.30	2.09	9.40	29.00	38.98	16.70	8.50	0.70	0.33	0.30	
6	0.15	0.22	0.35	2.26	8.00	29.48	38.56	18.20	7.36	0.68	0.30	0.30	
7	0.22	0.30	0.33	2.38	7.70	28.88	37.40	19.28	6.64	0.62	0.35	0.27	
8	0.20	0.55	0.33	2.03	9.30	27.44	35.24	20.36	6.08	0.60	0.33	0.27	
9	0.17	0.50	0.33	1.78	11.80	26.48	30.32	22.16	5.14	0.68	0.33	0.27	
10	0.15	0.45	0.30	1.57	14.00	25.28	26.72	22.88	4.72	0.60	0.30	0.27	
11	0.10	0.50	0.27	1.45	16.80	22.64	25.64	23.00	4.30	0.57	0.33	0.37	
12	0.10	0.37	0.33	1.35	20.24	20.00	25.16	23.00	3.94	0.52	0.35	0.33	
13	0.13	0.33	0.30	1.53	23.24	16.80	23.84	22.88	3.64	0.48	0.33	0.20	
14	0.10	0.42	0.30	2.16	24.92	14.80	22.64	22.52	3.46	0.42	0.33	0.13	
15	0.17	0.42	0.30	2.98	25.76	13.90	22.04	21.44	3.10	0.62	0.30	0.25	
16	0.20	0.52	0.37	4.18	24.68	12.90	22.28	19.88	2.92	0.55	0.62	0.35	
17	0.15	0.40	0.35	5.84	22.16	11.50	23.84	19.16	2.26	0.55	0.82	0.30	
18	0.15	0.35	0.48	7.04	19.28	9.70	25.16	19.16	1.95	0.50	0.85	0.27	
19	0.20	0.50	0.57	9.20	17.00	7.80	26.24	19.40	1.64	0.55	0.57	0.25	
20	0.25	0.48	0.85	20.96	16.30	6.64	26.12	19.52	1.47	0.55	0.48	0.30	
21	0.33	0.42	0.60	40.24	16.60	5.60	26.00	19.40	1.42	0.52	0.65	0.25	
22	0.37	0.37	0.72	53.65	16.60	5.52	25.76	19.28	1.37	0.48	0.68	0.25	
23	0.33	0.37	0.68	59.80	17.40	5.68	25.52	19.16	1.27	0.42	0.65	0.22	
24	0.30	0.42	0.62	62.65	19.76	5.68	25.16	18.92	1.12	0.42	0.62	0.22	
25	0.25	0.45	0.72	64.90	19.28	6.00	24.68	18.56	1.02	0.45	0.60	0.20	
26	0.20	0.48	0.80	65.20	18.80	7.20	23.84	18.20	1.05	0.40	0.65	0.33	
27	0.30	0.65	0.85	62.95	20.12	8.80	22.76	17.84	0.97	0.40	0.62	0.27	
28	0.45	0.55	0.82	58.45	20.12	12.10	20.60	17.10	0.90	0.45	0.48	0.30	
29	0.45	0.82	0.95	52.30	20.24	16.10	17.96	15.90	0.90	0.45		0.42	
30	0.42	0.65	1.15	44.16	21.44	21.68	15.50	14.80	0.92	0.42		0.48	
31		0.60		35.00	24.08		13.50		0.82	0.37		0.42	
TOTAL	6.66	13.12	16.07	674.55	553.94	506.64	829.90	562.00	123.98	17.10	13.31	9.07	3326.33 CMSDAY
MEAN	0.22	0.42	0.54	21.76	17.87	16.89	26.77	18.73	4.00	0.55	0.48	0.29	9.11 CMS
MAX	0.45	0.65	1.15	65.20	26.24	29.48	38.98	23.00	13.00	0.88	0.85	0.48	65.20 CMS
MIN	0.10	0.20	0.27	1.12	7.70	5.52	13.50	12.30	0.82	0.37	0.30	0.13	0.10 CMS
RUNOFF	0.575	1.134	1.388	58.281	47.860	43.774	71.703	48.557	10.712	1.477	1.150	0.784	287.395 MCM

MOMENTARY PEAK 65.50 CMS, AT 133.60 M (MSL), AT 8.00 HOURS, ON JUL 26, 1981

RUNOFF YIELD 3.11 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 22.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

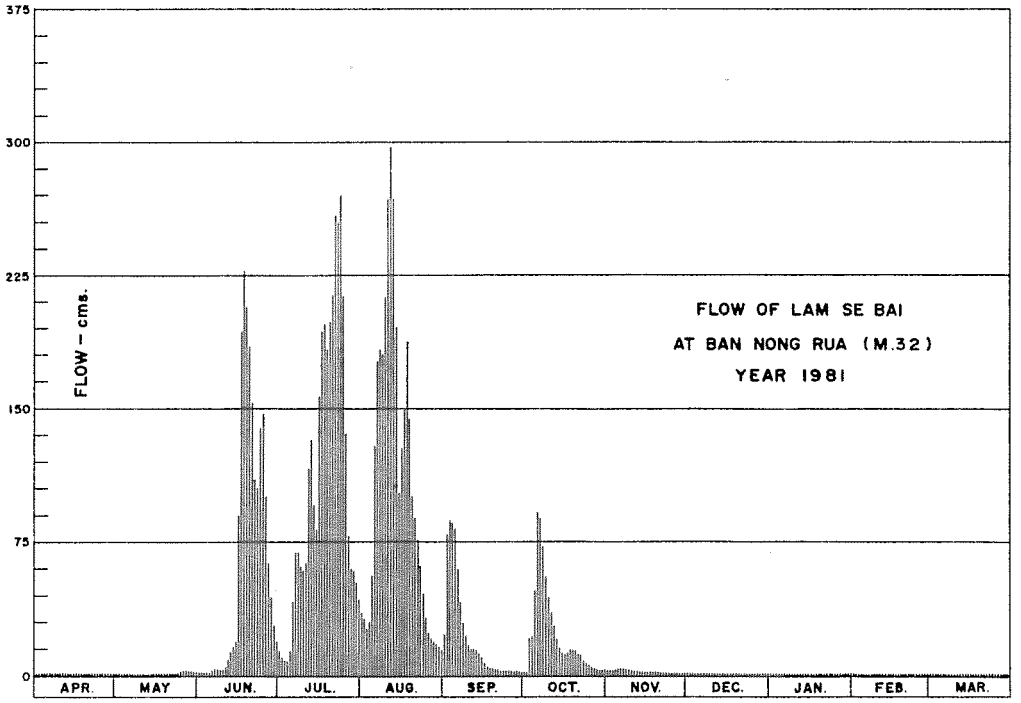
LAM SE BAI AT BAN NONG BUA, YASOTHON (M.321)

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	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	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	1954-1962, 1965 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1965-1973
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1973
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	119.38	119.29	120.44	122.35	123.51	123.05	120.50	120.88	120.23	120.02	119.97	119.94	
2	119.36	119.30	120.42	121.93	123.43	124.26	121.58	120.81	120.22	120.02	119.97	119.94	
3	119.34	119.31	120.41	121.68	123.27	124.37	122.85	120.74	120.17	120.02	119.97	119.94	
4	119.32	119.32	120.38	121.71	123.36	124.35	123.03	120.80	120.16	120.02	119.96	119.94	
5	119.29	119.34	120.40	122.39	123.94	124.30	123.77	120.84	120.16	120.01	119.96	119.94	
6	119.28	119.36	120.72	123.65	124.78	123.98	124.41	120.88	120.16	120.01	119.96	119.94	
7	119.27	119.38	120.83	124.13	125.21	123.66	124.37	120.90	120.16	120.01	119.96	119.93	
8	119.26	119.40	120.87	124.13	125.26	123.37	124.18	120.90	120.16	120.00	119.96	119.93	
9	119.25	119.42	120.84	124.02	125.24	123.01	123.93	120.85	120.16	120.00	119.96	119.93	
10	119.23	119.44	120.87	123.98	125.51	122.66	123.73	120.78	120.16	120.00	119.96	119.93	
11	119.22	119.46	121.10	124.05	125.83	122.46	123.53	120.68	120.15	120.01	119.96	119.93	
12	119.21	119.49	121.75	124.66	125.98	122.49	123.30	120.60	120.13	120.01	119.96	119.93	
13	119.21	119.52	122.30	124.82	125.83	122.36	122.99	120.53	120.13	120.01	119.96	119.93	
14	119.21	119.54	122.53	124.44	125.36	122.14	122.62	120.51	120.13	119.90	119.96	119.93	
15	119.20	119.56	122.90	124.30	124.71	121.87	122.29	120.49	120.11	120.00	119.95	119.93	
16	119.21	119.60	124.39	125.06	124.51	121.59	122.08	120.47	120.10	120.00	119.95	119.93	
17	119.22	119.64	125.35	125.35	124.99	121.32	122.22	120.44	120.10	120.00	119.95	119.93	
18	119.23	119.68	125.58	125.38	125.30	121.11	122.31	120.41	120.08	120.00	119.95	119.93	
19	119.23	119.72	125.45	125.27	124.94	120.96	122.35	120.39	120.06	120.00	119.95	119.93	
20	119.24	119.75	125.28	125.32	124.51	120.86	122.39	120.38	120.05	119.99	119.95	119.93	
21	119.24	119.80	125.02	125.49	124.38	120.78	122.17	120.33	120.04	119.99	119.95	119.93	
22	119.25	119.82	124.60	125.77	124.22	120.73	121.97	120.33	120.03	119.99	119.95	119.93	
23	119.25	119.85	124.55	125.76	124.01	120.68	121.76	120.32	120.03	119.99	119.95	119.93	
24	119.26	120.14	124.90	125.84	123.74	120.61	121.52	120.32	120.03	119.99	119.95	119.93	
25	119.26	120.39	124.96	125.49	123.42	120.55	121.30	120.31	120.03	119.99	119.94	119.92	
26	119.27	120.57	124.50	124.86	123.13	120.52	121.12	120.31	120.03	119.99	119.94	119.92	
27	119.27	120.63	124.04	124.25	122.89	120.47	120.96	120.27	120.02	119.99	119.94	119.92	
28	119.28	120.62	123.70	124.00	122.79	120.46	120.87	120.26	120.02	119.97	119.94	119.92	
29	119.28	120.50	123.30	123.97	122.74	120.46	120.77	120.23	120.02	119.97		119.92	
30	119.29	120.47	122.81	123.87	122.58	120.40	120.71	120.23	120.02	119.97		119.92	
31		120.46		123.71	122.38		120.78		120.02	119.97		119.93	
MEAN	119.26	119.77	122.84	124.25	124.25	121.99	122.33	120.54	120.10	119.99	119.95	119.93	
MAX	119.38	120.63	125.58	125.84	125.98	124.37	124.41	120.90	120.23	120.02	119.97	119.94	125.98
MIN	119.20	119.29	120.38	121.68	122.38	120.40	120.50	120.23	120.02	119.90	119.94	119.92	119.20

ANNUAL MAX MOMENTARY GAGE HEIGHT 126.00 M (MSL), AT 12.00 HOURS, ON AUG 12, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	1.76	14.10	35.40	22.70	2.00	3.52	0.92	0.08	0.00	0.00	
2	0.00	0.00	1.68	10.27	32.55	78.80	7.46	3.24	0.88	0.08	0.00	0.00	
3	0.00	0.00	1.64	8.16	27.45	88.30	19.65	2.96	0.68	0.08	0.00	0.00	
4	0.00	0.00	1.52	8.38	30.18	86.50	22.30	3.20	0.64	0.08	0.00	0.00	
5	0.00	0.00	1.60	14.50	56.40	82.00	47.50	3.36	0.64	0.04	0.00	0.00	
6	0.00	0.00	2.88	41.50	128.00	58.80	91.90	3.52	0.64	0.04	0.00	0.00	
7	0.00	0.00	3.32	69.10	176.20	42.00	88.30	3.60	0.64	0.04	0.00	0.00	
8	0.00	0.00	3.48	69.10	182.20	30.51	72.60	3.60	0.64	0.00	0.00	0.00	
9	0.00	0.00	3.36	61.40	179.80	21.90	55.80	3.40	0.64	0.00	0.00	0.00	
10	0.00	0.00	3.48	58.80	215.50	17.36	45.50	3.12	0.64	0.00	0.00	0.00	
11	0.00	0.00	4.50	63.50	268.40	15.20	36.20	2.72	0.60	0.04	0.00	0.00	
12	0.00	0.00	8.70	116.00	297.00	15.50	28.20	2.40	0.52	0.04	0.00	0.00	
13	0.00	0.00	13.60	132.00	268.40	14.20	21.56	2.12	0.52	0.04	0.00	0.00	
14	0.00	0.00	15.93	94.60	194.80	12.16	16.92	2.04	0.52	0.00	0.00	0.00	
15	0.00	0.00	20.30	82.00	121.00	9.73	13.51	1.96	0.44	0.00	0.00	0.00	
16	0.00	0.00	90.10	158.20	101.00	7.53	11.62	1.88	0.40	0.00	0.00	0.00	
17	0.00	0.00	193.50	193.50	149.90	5.82	12.88	1.76	0.40	0.00	0.00	0.00	
18	0.00	0.00	226.00	197.40	187.00	4.56	13.70	1.64	0.32	0.00	0.00	0.00	
19	0.00	0.00	207.00	183.40	144.40	3.84	14.10	1.56	0.24	0.00	0.00	0.00	
20	0.00	0.00	184.60	189.60	101.00	3.44	14.50	1.52	0.20	0.00	0.00	0.00	
21	0.00	0.00	153.40	212.60	89.20	3.12	12.43	1.32	0.16	0.00	0.00	0.00	
22	0.00	0.00	110.00	257.60	75.60	2.92	10.63	1.32	0.12	0.00	0.00	0.00	
23	0.00	0.00	105.00	255.80	60.70	2.72	8.78	1.28	0.12	0.00	0.00	0.00	
24	0.00	0.56	140.00	270.20	46.00	2.44	7.04	1.28	0.12	0.00	0.00	0.00	
25	0.00	1.56	146.60	212.60	32.20	2.20	5.70	1.24	0.12	0.00	0.00	0.00	
26	0.00	2.28	100.00	136.00	24.30	2.08	4.62	1.24	0.12	0.00	0.00	0.00	
27	0.00	2.52	62.80	78.00	20.17	1.88	3.84	1.08	0.08	0.00	0.00	0.00	
28	0.00	2.48	44.00	60.00	18.88	1.84	3.48	1.04	0.08	0.00	0.00	0.00	
29	0.00	2.00	28.20	58.20	18.28	1.84	3.08	0.92	0.08	0.00		0.00	
30	0.00	1.88	19.13	52.50	16.48	1.60	2.84	0.92	0.08	0.00		0.00	
31		1.84		44.50	14.40		3.12		0.08	0.00		0.00	
TOTAL	0.00	19.12	1898.08	3403.51	3312.79	643.49	701.76	64.76	12.28	0.56	0.00	0.00	10052.34 CMSDAY
MEAN	0.00	0.49	63.27	109.79	106.86	21.45	22.64	2.16	0.40	0.02	0.00	0.00	27.54 CMS
MAX	0.00	2.52	226.00	270.20	297.00	88.30	91.90	3.60	0.92	0.08	0.00	0.00	297.00 CMS
MIN	0.00	0.00	1.52	8.16	14.40	1.60	2.00	0.92	0.08	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	1.306	163.994	294.063	286.225	55.597	60.632	5.595	1.061	0.048	0.000	0.000	868.522 MCM

MOMENTARY PEAK 301.00 CMS, AT 126.00 M (MSL), AT 12.00 HOURS, ON AUG 12, 1981
RUNOFF YIELD 16.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 181.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 HIGHWAY BRIDGE, BAN YANG LOENG, TAMBON SUNG YANG, AMPHOE SUWANNAPHUM, ROI-ET.

DRAINAGE AREA — 672 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

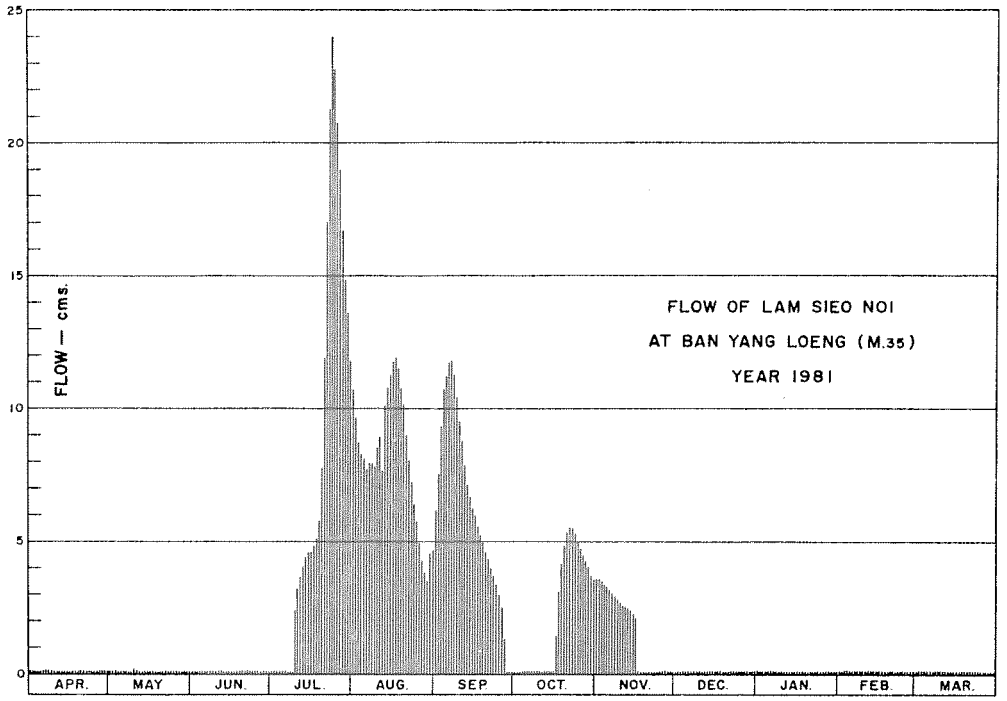
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 8 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	122.77	122.61	122.80	123.00	124.23	123.96	123.45	123.74	123.36	123.01	122.83	122.67	
2	122.76	122.60	122.81	123.04	124.17	124.06	123.48	123.75	123.34	123.00	122.82	122.66	
3	122.75	122.59	122.80	123.08	124.13	124.16	123.43	123.74	123.31	122.98	122.82	122.66	
4	122.75	122.58	122.79	123.12	124.10	124.23	123.41	123.72	123.30	122.97	122.81	122.65	
5	122.74	122.57	122.79	123.16	124.09	124.27	123.38	123.71	123.28	122.96	122.81	122.64	
6	122.74	122.56	122.80	123.21	124.06	124.29	123.34	123.70	123.27	122.95	122.80	122.64	
7	122.73	122.55	122.80	123.28	124.08	124.29	123.32	123.69	123.25	122.94	122.81	122.63	
8	122.72	122.54	122.80	123.35	124.08	124.27	123.30	123.68	123.24	122.94	122.80	122.63	
9	122.71	122.57	122.79	123.51	124.07	124.22	123.29	123.67	123.22	122.94	122.80	122.62	
10	122.70	122.57	122.79	123.62	124.11	124.18	123.32	123.66	123.20	122.94	122.79	122.62	
11	122.69	122.56	122.78	123.71	124.14	124.12	123.25	123.65	123.19	122.93	122.78	122.63	
12	122.69	122.55	122.77	123.75	124.06	124.07	123.22	123.64	123.18	122.93	122.77	122.62	
13	122.68	122.54	122.78	123.78	124.20	124.02	123.21	123.64	123.16	122.93	122.77	122.62	
14	122.68	122.53	122.79	123.82	124.23	124.00	123.21	123.63	123.15	122.93	122.76	122.61	
15	122.67	122.52	122.78	123.83	124.25	123.97	123.25	123.62	123.13	122.93	122.75	122.61	
16	122.66	122.51	122.83	123.83	124.29	123.94	123.57	123.61	123.10	122.92	122.74	122.60	
17	122.66	122.52	122.83	123.65	124.30	123.91	123.64	123.60	123.08	122.92	122.74	122.59	
18	122.65	122.53	122.83	123.87	124.28	123.88	123.71	123.59	123.07	122.91	122.74	122.59	
19	122.64	122.51	122.95	123.91	124.24	123.85	123.79	123.57	123.06	122.91	122.73	122.58	
20	122.63	122.55	123.00	123.97	124.19	123.84	123.85	123.56	123.04	122.90	122.73	122.57	
21	122.65	122.54	123.01	124.25	124.12	123.81	123.89	123.55	123.03	122.90	122.72	122.57	
22	122.66	122.54	123.01	124.44	124.07	123.78	123.91	123.54	123.02	122.89	122.71	122.56	
23	122.65	122.67	123.02	124.53	124.02	123.75	123.91	123.51	123.03	122.89	122.71	122.56	
24	122.65	122.82	123.02	124.62	123.96	123.72	123.89	123.50	123.04	122.88	122.70	122.55	
25	122.64	122.84	123.02	124.65	123.90	123.69	123.88	123.48	123.04	122.88	122.70	122.54	
26	122.63	122.84	123.03	124.61	123.85	123.65	123.85	123.45	123.05	122.88	122.69	122.54	
27	122.62	122.83	123.02	124.53	123.79	123.61	123.83	123.44	123.06	122.87	122.68	122.54	
28	122.61	122.81	123.02	124.46	123.75	123.57	123.80	123.41	123.07	122.86	122.68	122.57	
29	122.61	122.80	123.01	124.41	123.73	123.55	123.78	123.39	123.06	122.85		122.57	
30	122.61	122.79	123.00	124.34	123.83	123.50	123.76	123.38	123.04	122.84		122.56	
31		122.79		124.28	123.84		123.74		123.03	122.84		122.55	
MEAN	122.68	122.62	122.88	123.86	124.07	123.94	123.57	123.59	123.14	122.92	122.76	122.60	
MAX	122.77	122.84	123.03	124.65	124.30	124.29	123.91	123.75	123.36	123.01	122.83	122.67	124.65
MIN	122.61	122.51	122.77	123.00	123.73	123.50	123.21	123.38	123.02	122.84	122.68	122.54	122.51

ANNUAL MAX MOMENTARY GAGE HEIGHT 124.65 M (MSL), AT 12.00 HOURS, ON JUL 25, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	10.57	6.18	0.00	3.54	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	9.46	7.60	0.00	3.65	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	8.74	9.28	0.00	3.54	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	8.20	10.57	0.00	3.32	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	8.05	11.33	0.00	3.21	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	7.60	11.71	0.00	3.10	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	7.90	11.71	0.00	3.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	7.90	11.33	0.00	2.90	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	7.75	10.38	0.00	2.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	2.30	8.38	9.64	0.00	2.70	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	3.21	8.92	8.56	0.00	2.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	3.65	7.60	7.75	0.00	2.50	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	3.98	10.00	7.00	0.00	2.50	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	4.44	10.57	6.70	0.00	2.40	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	4.56	10.95	6.31	0.00	2.30	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	4.56	11.71	5.92	0.00	2.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	4.80	11.90	5.53	2.50	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	5.04	11.52	5.16	3.21	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	5.53	10.76	4.80	4.09	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	6.31	9.82	4.68	4.80	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	10.95	8.56	4.32	5.28	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	15.32	7.75	3.98	5.53	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	18.14	7.00	3.65	5.53	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	22.04	6.18	3.32	5.28	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	23.90	5.40	3.00	5.16	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	21.42	4.80	2.60	4.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	18.14	4.09	2.20	4.56	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	15.88	3.65	0.00	4.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	14.48	3.43	0.00	3.98	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	12.82	4.56	0.00	3.76	0.00	0.00	0.00		0.00	
31		0.00		11.52	4.68		3.54		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	232.99	248.40	185.21	66.22	46.26	0.00	0.00	0.00	0.00	779.08 CMSDAY
MEAN	0.00	0.00	0.00	7.52	8.01	6.17	2.14	1.54	0.00	0.00	0.00	0.00	2.13 CMS
MAX	0.00	0.00	0.00	23.90	11.90	11.71	5.53	3.65	0.00	0.00	0.00	0.00	23.90 CMS
MIN	0.00	0.00	0.00	0.00	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	20.130	21.462	16.002	5.721	3.997	0.000	0.000	0.000	0.000	67.312 MCM

MOMENTARY PEAK 23.90 CMS, AT 124.65 M (MSL), AT 12.00 HOURS, ON JUL 25, 1981
RUNOFF YIELD 3.19 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 35.56 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

LAM TAKHONG AT BAN KHLONG PHAI, NAKHON RATCHASIMA (M.38C)

LOCATION — LAT. 14°-52'-06" N., LONG. 101°-33'-53" E., ON LEFT BANK ABOUT 500 METERS DOWNSTREAM FROM LAM TAKHONG DAM, TAMBON KHLONG PHAI, AMPHOE SIKHIU, NAKHON RATCHASIMA.

DRAINAGE AREA — 1,292 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +242.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ALONG THE MEASURING LINE.

ELEVATION — +251.841 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 — 1962-1965, 1967 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1962-1965, 1967 TO DATE.

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

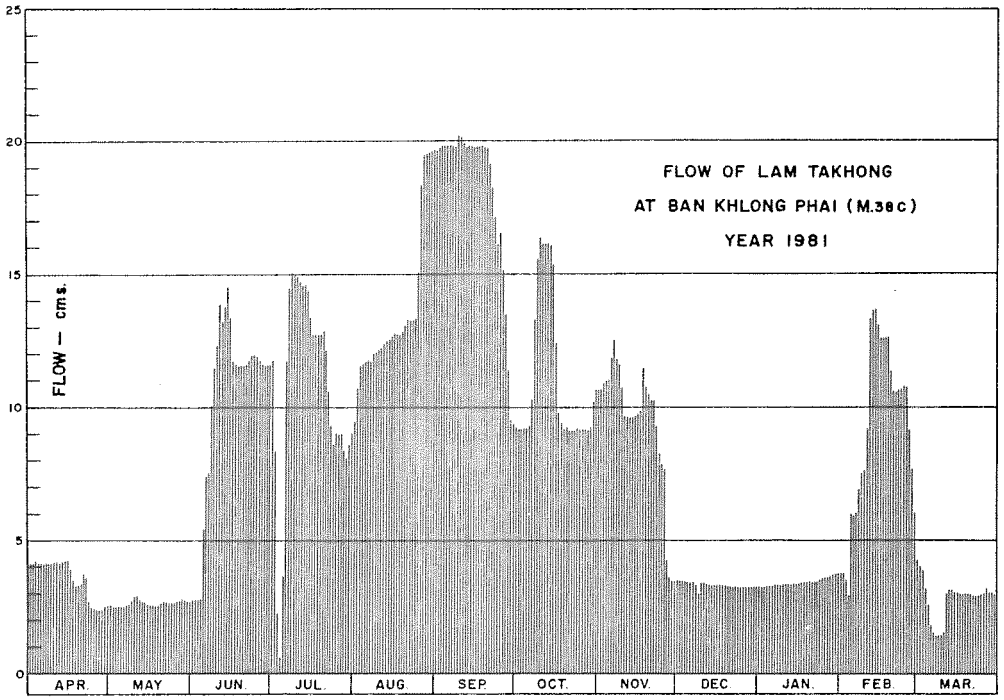
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 39 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY LAM TAKHONG RESERVOIR DIVERTED FOR IRRIGATION OF ABOUT 62,080 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	244.97	244.72	244.75	245.55	245.33	246.14	245.35	245.49	244.87	244.84	244.92	244.96	
2	244.97	244.72	244.76	245.56	245.41	246.14	245.35	245.49	244.87	244.84	244.92	244.96	
3	244.99	244.71	244.76	244.48	245.54	246.15	245.35	245.49	244.87	244.85	244.92	244.94	
4	244.98	244.71	244.76	243.54	245.55	246.15	245.35	245.50	244.87	244.85	244.78	244.81	
5	244.98	244.71	244.88	244.04	245.55	246.15	245.34	245.50	244.87	244.85	245.01	244.73	
6	244.98	244.71	245.16	245.38	245.56	246.15	245.34	245.55	244.86	244.85	245.00	244.54	
7	244.98	244.71	245.15	245.70	245.56	246.15	245.39	245.61	244.86	244.85	245.00	244.53	
8	244.98	244.73	245.20	245.71	245.56	246.15	245.60	245.55	244.86	244.85	245.10	244.51	
9	244.98	244.74	245.54	245.81	245.58	246.15	245.75	245.55	244.78	244.85	245.17	244.50	
10	244.98	244.78	245.54	245.80	245.58	246.18	245.91	245.47	244.86	244.85	245.18	244.51	
11	244.98	244.80	245.62	245.79	245.59	246.17	245.89	245.39	244.86	244.85	245.19	244.51	
12	244.98	244.77	245.72	245.78	245.59	246.15	245.89	245.39	244.86	244.85	245.44	244.70	
13	244.98	244.75	245.66	245.77	245.61	246.15	245.89	245.39	244.86	244.85	245.70	244.83	
14	244.99	244.75	245.72	245.77	245.61	246.15	245.88	245.39	244.85	244.85	245.70	244.83	
15	244.99	244.73	245.76	245.74	245.62	246.15	245.88	245.41	244.85	244.85	245.65	244.81	
16	244.94	244.72	245.56	245.63	245.63	246.15	245.71	245.41	244.85	244.85	245.62	244.81	
17	244.85	244.73	245.55	245.63	245.63	246.15	245.40	245.42	244.85	244.86	245.62	244.80	
18	244.85	244.73	245.55	245.63	245.63	246.15	245.37	245.54	244.85	244.87	245.62	244.80	
19	244.85	244.73	245.55	245.63	245.63	246.15	245.34	245.49	244.85	244.87	245.63	244.80	
20	244.85	244.73	245.55	245.63	245.65	246.15	245.35	245.48	244.85	244.87	245.54	244.80	
21	244.91	244.74	245.55	245.64	245.67	246.14	245.33	245.46	244.84	244.87	245.48	244.80	
22	244.89	244.75	245.55	245.49	245.67	246.08	245.33	245.46	244.84	244.88	245.48	244.79	
23	244.73	244.75	245.57	245.37	245.67	245.98	245.33	245.35	244.84	244.88	245.49	244.79	
24	244.71	244.75	245.57	245.25	245.67	245.89	245.33	245.19	244.84	244.88	245.49	244.79	
25	244.70	244.75	245.57	245.32	245.68	245.89	245.33	245.18	244.84	244.89	245.50	244.79	
26	244.70	244.75	245.57	245.32	245.84	245.92	245.33	245.18	244.84	244.90	245.50	244.79	
27	244.70	244.76	245.55	245.32	246.05	245.75	245.33	244.94	244.84	244.90	245.34	244.84	
28	244.70	244.76	245.55	245.25	246.13	245.55	245.33	244.88	244.84	244.91	245.14	244.81	
29	244.71	244.76	245.55	245.21	246.13	245.38	245.33	244.88	244.84	244.91		244.81	
30	244.75	244.76	245.55	245.24	246.13	245.37	245.39	244.88	244.84	244.92		244.80	
31		244.75		245.32	246.14		245.49		244.84	244.92		244.80	
MEAN	244.88	244.74	245.41	245.40	245.68	246.03	245.49	245.36	244.85	244.87	245.33	244.76	
MAX	244.99	244.80	245.76	245.81	246.14	246.18	245.91	245.61	244.87	244.92	245.70	244.96	246.18
MIN	244.70	244.71	244.75	243.54	245.33	245.37	245.33	244.88	244.78	244.84	244.78	244.50	243.54

ANNUAL MAX MOMENTARY GAGE HEIGHT 246.22 M (MSL), AT 11.00 HOURS, ON SEP 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 242.00 M (MSL), RIVER BED 243.82 M (MSL)
LEFT BANK ELEVATION 251.94 M (MSL)
RIGHT BANK ELEVATION 253.29 M (MSL), DRAINAGE AREA 1292 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.09	2.51	2.68	11.55	9.04	19.60	9.19	10.65	3.41	3.21	3.74	4.02	
2	4.09	2.51	2.73	11.70	9.66	19.60	9.19	10.65	3.41	3.21	3.74	4.02	
3	4.23	2.46	2.73	2.08	11.40	19.75	9.19	10.65	3.41	3.27	3.74	3.88	
4	4.16	2.46	2.73	0.00	11.55	19.75	9.19	10.80	3.41	3.27	2.84	3.02	
5	4.16	2.46	3.47	0.12	11.55	19.75	9.11	10.80	3.41	3.27	5.99	2.56	
6	4.16	2.46	7.40	9.43	11.70	19.75	9.11	11.55	3.34	3.27	5.90	1.58	
7	4.16	2.46	7.30	13.60	11.70	19.75	9.51	12.43	3.34	3.27	5.90	1.54	
8	4.16	2.56	7.80	13.73	11.70	19.75	12.30	11.55	3.34	3.27	6.80	1.44	
9	4.16	2.62	11.40	15.03	12.00	19.75	14.25	11.55	2.84	3.27	7.50	1.40	
10	4.16	2.84	11.40	14.90	12.00	20.20	16.34	10.35	3.34	3.27	7.60	1.44	
11	4.16	2.95	12.56	14.77	12.15	20.05	16.07	9.51	3.34	3.27	7.70	1.44	
12	4.16	2.79	13.86	14.64	12.15	19.75	16.07	9.51	3.34	3.27	9.90	2.40	
13	4.16	2.68	13.08	14.51	12.43	19.75	16.07	9.51	3.34	3.27	13.60	3.14	
14	4.23	2.68	13.86	14.51	12.43	19.75	15.94	9.51	3.27	3.27	13.60	3.14	
15	4.23	2.56	14.38	14.12	12.56	19.75	15.94	9.66	3.27	3.27	12.95	3.02	
16	3.88	2.51	11.70	12.69	12.69	19.75	13.73	9.66	3.27	3.27	12.56	3.02	
17	3.27	2.56	11.55	12.69	12.69	19.75	9.59	9.74	3.27	3.34	12.56	2.95	
18	3.27	2.56	11.55	12.69	12.69	19.75	9.35	11.40	3.27	3.41	12.56	2.95	
19	3.27	2.56	11.55	12.69	12.69	19.75	9.11	10.65	3.27	3.41	12.69	2.95	
20	3.27	2.56	11.55	12.69	12.95	19.75	9.19	10.50	3.27	3.41	11.40	2.95	
21	3.67	2.62	11.55	12.82	13.21	19.60	9.04	10.20	3.21	3.41	10.50	2.95	
22	3.53	2.68	11.55	10.65	13.21	18.72	9.04	10.20	3.21	3.47	10.50	2.89	
23	2.56	2.68	11.85	9.35	13.21	17.32	9.04	9.19	3.21	3.47	10.65	2.89	
24	2.46	2.68	11.85	8.30	13.21	16.07	9.04	7.70	3.21	3.47	10.65	2.89	
25	2.40	2.68	11.85	8.96	13.34	16.07	9.04	7.60	3.21	3.53	10.80	2.89	
26	2.40	2.68	11.85	8.96	15.42	16.48	9.04	7.60	3.21	3.60	10.80	2.89	
27	2.40	2.73	11.55	8.96	16.30	14.25	9.04	3.88	3.21	3.60	9.11	3.21	
28	2.40	2.73	11.55	8.30	19.45	11.55	9.04	3.47	3.21	3.67	7.20	3.02	
29	2.46	2.73	11.55	7.90	19.45	9.43	9.04	3.47	3.21	3.67		3.02	
30	2.68	2.73	11.55	8.20	19.45	9.35	9.51	3.47	3.21	3.74		2.95	
31		2.68		8.96	19.60		10.65		3.21	3.74		2.95	
TOTAL	106.39	81.37	301.98	329.50	415.58	544.29	339.96	277.41	101.47	105.14	253.48	85.41	2941.97 CMSDAY
MEAN	3.55	2.62	10.07	10.63	13.41	18.14	10.97	9.25	3.27	3.39	9.05	2.76	8.06 CMS
MAX	4.23	2.95	14.38	15.03	19.60	20.20	16.34	12.43	3.41	3.74	13.60	4.02	20.20 CMS
MIN	2.40	2.46	2.68	0.00	9.04	9.35	9.04	3.47	2.84	3.21	2.84	1.40	0.00 CMS
RUNOFF	9.192	7.030	26.091	28.469	35.906	47.027	29.372	23.968	8.767	9.084	21.901	7.379	254.187 MCM

MOMENTARY PEAK 20.80 CMS, AT 246.22 M (MSL), AT 11.00 HOURS, ON SEP 10, 1981

RUNOFF YIELD 6.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

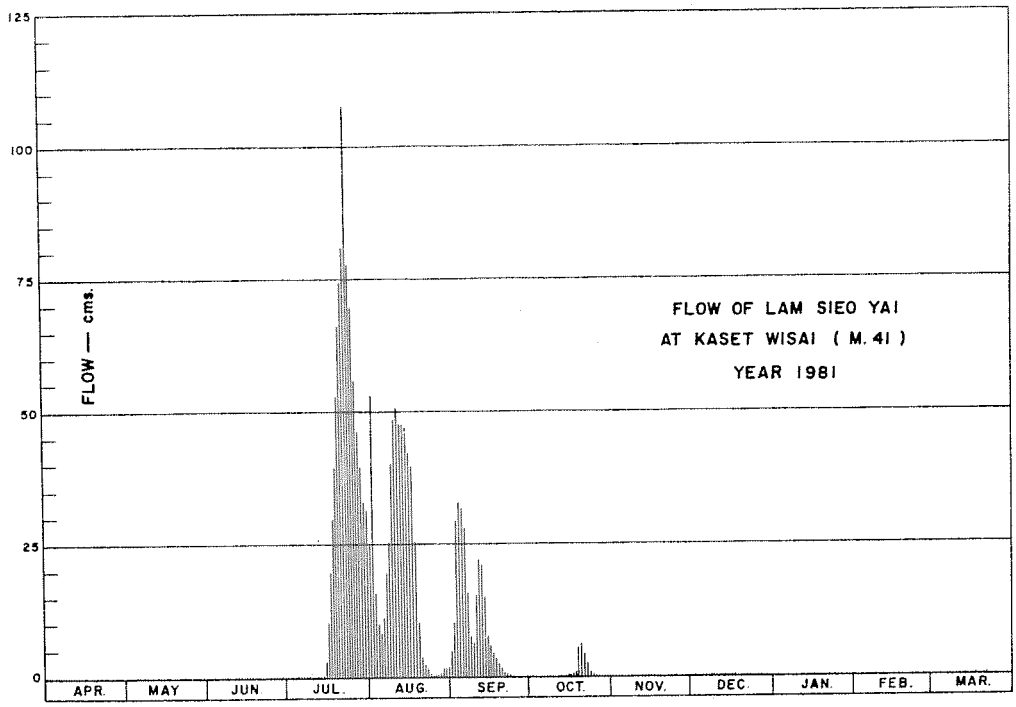
LAM SIEO YAI AT KASET WISAI, ROI ET (M.41)

LOCATION	LAT. 15-38-46 N., LONG. 103-33-55 E., ON LEFT BANK AT TAMBON KASET WISAI, AMPHOE KASET WISAI, ROI ET.
DRAINAGE AREA	1,310 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+125.30 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	AT THE FOOT OF THE LADDER OF AUTOMATIC GAGE BUILDING.
ELEVATION	+128.419 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	1971-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1971-1974
STABILITY OF CHANNEL REGIMES	UNSTABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 109 DISCHARGE MEASUREMENTS MADE DURING 1971-1974.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	125.97	125.97	126.02	126.54	127.86	127.48	126.42	126.50	126.12	125.98	125.86	125.78	
2	125.96	125.97	126.07	126.51	128.03	127.78	126.41	126.48	126.12	125.98	125.85	125.78	
3	125.98	125.97	126.08	126.49	127.75	127.91	126.39	126.47	126.11	125.98	125.85	125.77	
4	125.98	125.97	126.08	126.50	127.61	127.93	126.36	126.45	126.10	125.98	125.84	125.77	
5	125.99	125.95	126.08	126.54	127.56	127.92	126.33	126.45	126.10	125.97	125.84	125.76	
6	125.99	125.94	126.07	126.60	127.62	127.88	126.33	126.44	126.09	125.97	125.85	125.75	
7	125.96	125.93	126.11	126.62	127.74	127.73	126.39	126.44	126.08	125.96	125.88	125.74	
8	125.97	125.93	126.10	126.62	127.86	127.54	126.46	126.43	126.08	125.96	125.88	125.73	
9	125.97	125.92	126.09	126.64	127.97	127.49	126.45	126.42	126.08	125.95	125.88	125.73	
10	125.97	125.92	126.09	126.62	128.01	127.70	126.42	126.42	126.07	125.95	125.87	125.72	
11	125.97	125.91	126.08	126.58	128.02	127.83	126.40	126.40	126.06	125.95	125.87	125.71	
12	125.97	125.90	126.07	126.54	128.01	127.82	126.38	126.38	126.06	125.95	125.87	125.71	
13	125.97	125.90	126.08	126.49	128.01	127.74	126.39	126.34	126.06	125.94	125.85	125.70	
14	125.97	125.89	126.08	126.53	128.01	127.60	126.39	126.31	126.06	125.94	125.83	125.69	
15	125.97	125.89	126.07	126.86	127.99	127.50	126.39	126.30	126.05	125.94	125.81	125.68	
16	125.97	125.97	126.07	127.56	127.98	127.44	126.55	126.28	126.05	125.94	125.79	125.68	
17	125.97	125.98	126.06	127.75	127.96	127.38	126.81	126.27	126.04	125.93	125.79	125.67	
18	125.96	125.98	126.06	127.87	127.88	127.34	127.24	126.26	126.03	125.93	125.79	125.67	
19	125.96	125.98	126.06	127.97	127.68	127.28	127.46	126.25	126.02	125.93	125.79	125.66	
20	125.96	125.98	126.05	128.07	127.48	127.20	127.50	126.23	126.02	125.93	125.78	125.66	
21	125.96	125.97	126.09	128.09	127.35	127.15	127.39	126.22	126.02	125.93	125.78	125.65	
22	125.96	125.97	126.08	128.11	127.23	127.09	127.28	126.20	126.02	125.93	125.78	125.64	
23	125.95	125.97	126.10	128.16	127.15	127.01	127.18	126.18	126.02	125.92	125.78	125.64	
24	125.95	125.97	126.33	128.11	127.04	126.93	127.10	126.17	126.02	125.92	125.78	125.63	
25	125.95	125.97	126.60	128.10	126.96	126.84	127.00	126.17	126.02	125.92	125.78	125.63	
26	125.95	125.97	126.70	128.05	126.97	126.74	126.91	126.16	126.02	125.92	125.78	125.64	
27	125.95	125.97	126.68	128.02	127.08	126.65	126.81	126.15	126.01	125.91	125.78	125.65	
28	125.96	126.02	126.68	128.00	127.19	126.57	126.71	126.15	126.01	125.91	125.78	125.65	
29	125.96	126.02	126.61	127.96	127.23	126.51	126.64	126.14	126.00	125.89		125.65	
30	125.96	126.02	126.58	127.93	127.23	126.46	126.57	126.13	125.99	125.89		125.67	
31		126.02		127.92	127.25		126.53		125.99	125.88		125.67	
MEAN	125.97	125.96	126.20	127.30	127.60	127.35	126.70	126.31	126.05	125.94	125.82	125.69	
MAX	125.99	126.02	126.70	128.16	128.03	127.93	127.50	126.50	126.12	125.98	125.88	125.78	128.16
MIN	125.95	125.89	126.02	126.49	126.96	126.46	126.33	126.13	125.99	125.88	125.78	125.63	125.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 128.17 M (MSL), AT 1.00 HOURS, ON JUL 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 125.30 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 1310 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	24.80	5.84	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	53.34	18.24	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	16.50	30.01	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	9.82	33.23	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	8.16	31.62	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	10.24	26.60	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	15.92	15.34	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	24.80	7.54	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	39.67	6.07	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	47.44	13.60	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	50.39	22.10	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	47.44	21.20	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	47.44	15.92	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	47.44	9.40	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	42.89	6.30	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	8.16	41.28	4.92	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	16.50	38.06	3.66	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	25.70	26.60	2.98	1.64	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	39.67	12.76	2.08	5.38	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	65.15	5.84	1.20	6.30	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	71.05	3.15	0.85	3.83	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	79.61	1.53	0.47	2.08	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	107.60	0.85	0.23	1.06	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	79.61	0.32	0.06	0.50	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	74.00	0.12	0.00	0.20	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	59.25	0.14	0.00	0.02	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	50.39	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	44.50	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	38.06	1.53	0.00	0.00	0.00	0.00	0.00		0.00	
30	0.00	0.00	0.00	33.23	1.53	0.00	0.00	0.00	0.00	0.00		0.00	
31		0.00		31.62	1.75		0.00		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	824.10	623.32	279.46	21.01	0.00	0.00	0.00	0.00	0.00	1747.89 CMSDAY
MEAN	0.00	0.00	0.00	26.58	20.11	9.32	0.68	0.00	0.00	0.00	0.00	0.00	4.79 CMS
MAX	0.00	0.00	0.00	107.60	53.34	33.23	6.30	0.00	0.00	0.00	0.00	0.00	107.60 CMS
MIN	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	71.202	53.855	24.145	1.815	0.000	0.000	0.000	0.000	0.000	151.017 MCM

MOMENTARY PEAK 113.20 CMS, AT 128.17 M (MSL), AT 1.00 HOURS, ON JUL 24, 1981
RUNOFF YIELD 3.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 86.41 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ABUTMENT OF HUAI THAP THAN BRIDGE, AMPHOE UTHUMPHON PHISAI, SI SA KET.

DRAINAGE AREA — 1,794 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.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 TO DATE.

RATED BY FLOAT

RATED BY CURRENT METER — 1972 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 24 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

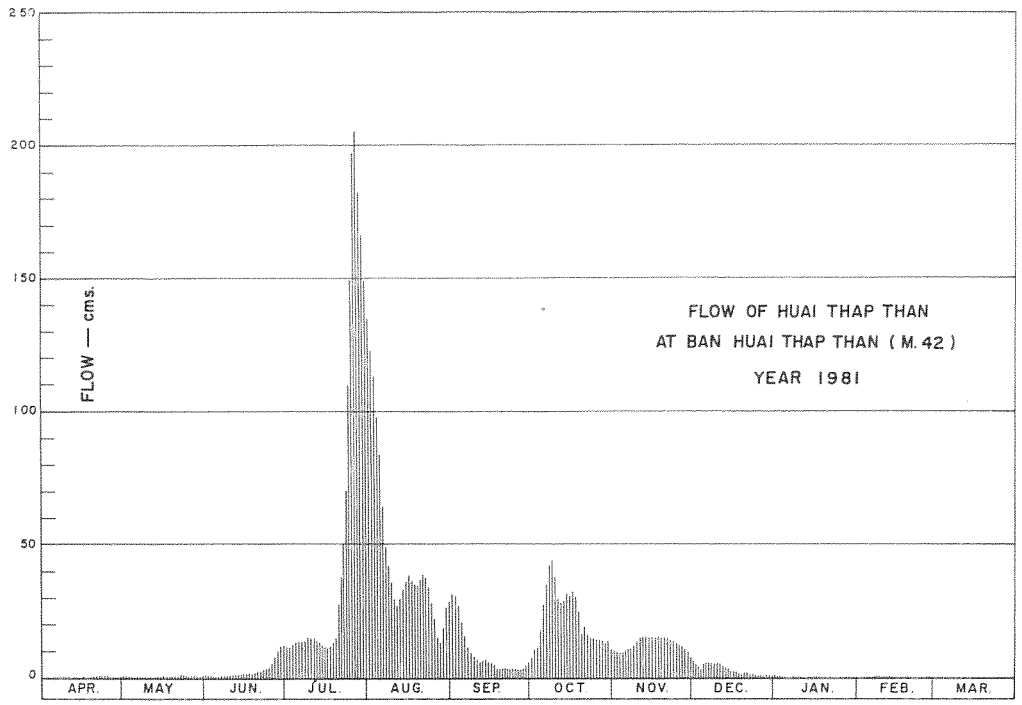
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.59	0.74	0.84	2.19	8.68	4.43	1.75	2.10	1.57	0.81	0.72	0.68	
2	0.58	0.73	0.84	2.22	8.48	4.50	2.06	2.08	1.49	0.78	0.72	0.68	
3	0.58	0.73	0.74	2.35	8.31	4.47	2.22	1.96	1.38	0.75	0.73	0.67	
4	0.57	0.73	0.74	2.50	7.88	4.19	2.29	1.99	1.19	0.75	0.72	0.65	
5	0.57	0.75	0.74	2.53	7.45	3.63	3.06	2.07	1.59	0.71	0.72	0.65	
6	0.59	0.75	0.74	2.54	6.98	3.04	4.02	2.12	1.59	0.74	0.72	0.63	
7	0.55	0.75	0.74	2.51	6.39	2.43	4.96	2.21	1.53	0.77	0.72	0.62	
8	0.59	0.77	0.76	2.60	5.83	2.14	5.50	2.29	1.50	0.78	0.73	0.65	
9	0.58	0.75	0.75	2.70	5.36	1.93	5.67	2.39	1.48	0.76	0.74	0.68	
10	0.57	0.75	0.78	2.75	4.76	1.79	5.38	2.60	1.52	0.74	0.71	0.65	
11	0.56	0.75	0.78	2.73	4.25	1.68	4.33	2.77	1.49	0.73	0.69	0.65	
12	0.56	0.75	0.78	2.68	4.05	1.52	4.16	2.80	1.33	0.72	0.68	0.65	
13	0.56	0.75	0.78	2.57	4.34	1.63	4.11	2.80	1.26	0.75	0.68	0.65	
14	0.56	0.75	0.94	2.46	4.65	1.73	4.39	2.81	1.21	0.74	0.69	0.64	
15	0.56	0.75	1.01	2.33	4.92	1.57	4.48	2.73	1.08	0.75	0.72	0.64	
16	0.69	0.77	0.93	2.16	5.15	1.46	4.41	2.71	1.06	0.72	0.68	0.63	
17	0.69	0.77	0.84	2.12	5.06	1.48	4.59	2.69	1.02	0.74	0.69	0.63	
18	0.58	0.77	0.88	2.19	4.91	1.24	4.38	2.76	0.97	0.74	0.69	0.63	
19	0.67	0.77	0.88	2.58	4.75	1.21	4.04	2.75	0.92	0.74	0.66	0.61	
20	0.60	0.77	1.04	2.87	4.88	1.16	2.81	2.66	0.90	0.71	0.69	0.61	
21	0.62	0.77	1.01	4.36	5.16	1.17	3.29	2.73	0.98	0.72	0.68	0.61	
22	0.71	0.83	1.22	5.56	5.30	1.26	2.96	2.71	0.89	0.70	0.66	0.60	
23	0.76	0.82	1.24	6.73	5.12	1.24	2.77	2.64	0.88	0.74	0.66	0.59	
24	0.80	0.83	1.27	7.99	4.65	1.16	2.66	2.66	0.87	0.73	0.68	0.58	
25	0.79	0.83	1.35	8.88	4.14	1.16	2.63	2.48	0.85	0.73	0.68	0.58	
26	0.79	0.83	1.77	9.37	3.48	1.21	2.63	2.38	0.85	0.72	0.68	0.58	
27	0.80	0.82	2.18	9.44	2.77	1.15	2.60	2.32	0.84	0.70	0.67	0.59	
28	0.75	0.76	2.30	9.31	2.74	1.15	2.57	2.25	0.83	0.71	0.68	0.62	
29	0.74	0.74	2.36	9.16	3.38	1.34	2.46	1.98	0.82	0.75		0.66	
30	0.74	0.74	2.33	9.01	3.86	1.59	2.56	1.75	0.81	0.71		0.72	
31		0.75		8.87	4.16		2.15		0.80	0.73		0.75	
MEAN	0.64	0.77	1.12	4.46	5.22	1.99	3.48	2.44	1.15	0.74	0.70	0.64	
MAX	0.80	0.83	2.36	9.44	8.68	4.50	5.67	2.81	1.59	0.81	0.74	0.75	9.44
MIN	0.55	0.73	0.74	2.12	2.74	1.15	1.75	1.75	0.80	0.70	0.66	0.58	0.55

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.46 M (A.D), AT 9.00 HOURS, ON JUL 27, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.27 M (A.D)

LEFT BANK ELEVATION 11.53 M (A.D)

RIGHT BANK ELEVATION 11.52 M (A.D), DRAINAGE AREA 1794 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.70	1.24	11.04	132.20	30.90	7.56	10.32	6.13	1.06	0.60	0.40	
2	0.00	0.65	1.24	11.27	119.90	31.60	10.01	10.17	5.50	0.90	0.60	0.40	
3	0.00	0.65	0.70	12.30	110.55	31.30	11.27	9.22	4.63	0.75	0.65	0.35	
4	0.00	0.65	0.70	13.49	94.39	28.50	11.83	9.45	3.34	0.75	0.60	0.25	
5	0.00	0.75	0.70	13.72	75.50	22.90	17.91	10.09	6.29	0.55	0.60	0.25	
6	0.00	0.75	0.70	13.80	64.10	17.75	26.80	10.48	6.29	0.70	0.60	0.15	
7	0.00	0.75	0.70	13.56	53.65	12.93	36.20	11.19	5.82	0.85	0.60	0.10	
8	0.00	0.85	0.80	14.28	45.42	10.64	41.60	11.83	5.58	0.90	0.65	0.25	
9	0.00	0.75	0.75	15.07	39.60	8.98	43.44	12.62	5.42	0.80	0.70	0.40	
10	0.00	0.75	0.90	15.46	34.20	7.87	40.40	14.28	5.74	0.70	0.55	0.25	
11	0.00	0.75	0.90	15.30	29.10	7.00	29.90	15.62	5.50	0.65	0.45	0.25	
12	0.00	0.75	0.90	14.91	27.10	5.74	28.20	15.86	4.24	0.60	0.40	0.25	
13	0.00	0.75	0.90	14.04	30.00	6.61	27.70	15.86	3.76	0.75	0.40	0.25	
14	0.00	0.75	1.84	13.17	33.10	7.40	30.50	15.94	3.46	0.70	0.45	0.20	
15	0.00	0.75	2.26	12.14	35.80	6.13	31.40	15.30	2.68	0.75	0.60	0.20	
16	0.45	0.85	1.78	10.80	38.10	5.26	30.70	15.15	2.56	0.60	0.40	0.15	
17	0.45	0.85	1.24	10.48	37.20	5.42	32.50	14.99	2.32	0.70	0.45	0.15	
18	0.00	0.85	1.48	11.04	35.70	3.64	30.40	15.54	2.02	0.70	0.45	0.15	
19	0.35	0.85	1.48	14.12	34.10	3.46	27.00	15.46	1.72	0.70	0.30	0.05	
20	0.00	0.85	2.44	16.41	35.40	3.16	15.94	14.75	1.60	0.55	0.45	0.05	
21	0.10	0.85	2.26	30.20	38.20	3.22	19.73	15.30	2.08	0.60	0.40	0.05	
22	0.55	1.18	3.52	42.20	39.60	3.76	17.12	15.15	1.54	0.50	0.30	0.00	
23	0.80	1.12	3.64	59.24	37.80	3.64	15.62	14.59	1.48	0.70	0.30	0.00	
24	1.00	1.18	3.82	95.41	33.10	3.16	14.75	14.75	1.42	0.65	0.40	0.00	
25	0.95	1.18	4.40	146.90	28.00	3.16	14.51	13.33	1.30	0.65	0.40	0.00	
26	0.95	1.18	7.72	196.40	21.40	3.46	14.51	12.54	1.30	0.60	0.40	0.00	
27	1.00	1.12	10.96	205.20	15.62	3.10	14.28	12.06	1.24	0.50	0.35	0.00	
28	0.75	0.80	11.90	189.20	15.38	3.10	14.04	11.51	1.18	0.55	0.40	0.10	
29	0.70	0.70	12.38	171.80	20.44	4.32	13.17	9.38	1.12	0.75		0.30	
30	0.70	0.70	12.14	157.40	25.20	6.29	13.96	7.56	1.06	0.55		0.60	
31		0.75		146.10	28.20		10.72		1.00	0.65		0.75	
TOTAL	8.75	26.01	96.39	1706.45	1408.05	294.40	693.67	390.29	99.32	21.36	13.45	6.30	4764.43 CMSDAY
MEAN	0.29	0.84	3.21	55.05	45.42	9.81	22.38	13.01	3.20	0.69	0.48	0.20	13.05 CMS
MAX	1.00	1.18	12.38	205.20	132.20	31.60	43.44	15.94	6.29	1.06	0.70	0.75	205.20 CMS
MIN	0.00	0.65	0.70	10.48	15.38	3.10	7.56	7.56	1.00	0.50	0.30	0.00	0.00 CMS
RUNOFF	0.756	2.247	8.328	147.437	121.655	25.436	59.933	33.721	8.581	1.846	1.162	0.544	411.647 MCM

MOMENTARY PEAK 207.80 CMS, AT 9.46 M (A.D), AT 9.00 HOURS, ON JUL 27, 1981

RUNOFF YIELD 7.28 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 115.83 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE LADDER OF 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

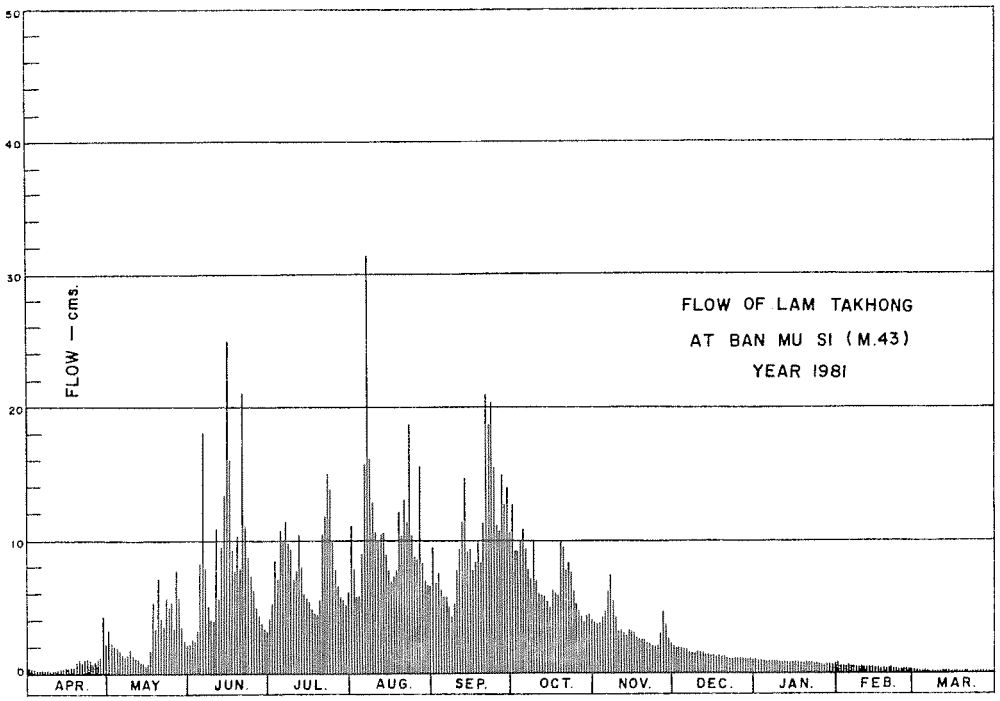
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 178 DISCHARGE MEASUREMENTS MADE DURING 1969-1973.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.89	0.79	0.95	1.33	1.26	1.40	0.92	0.77	0.60	0.54	0.46	
2	0.42	0.77	0.83	1.02	1.15	1.10	1.23	0.91	0.76	0.60	0.51	0.44	
3	0.41	0.75	0.80	1.20	1.05	1.15	1.23	0.92	0.78	0.59	0.52	0.44	
4	0.41	0.75	0.91	1.10	1.06	1.08	1.31	0.96	0.76	0.58	0.52	0.46	
5	0.39	0.71	1.35	1.32	1.23	1.04	1.32	1.00	0.75	0.58	0.51	0.44	
6	0.39	0.68	1.61	1.28	1.62	1.05	1.24	1.09	0.74	0.58	0.52	0.44	
7	0.39	0.64	1.14	1.36	1.99	1.00	1.15	1.14	0.73	0.58	0.51	0.43	
8	0.40	0.68	1.01	1.25	1.50	0.96	1.12	1.01	0.72	0.57	0.52	0.41	
9	0.39	0.75	0.93	1.23	1.41	1.03	1.26	0.94	0.72	0.57	0.52	0.39	
10	0.38	0.68	0.93	1.13	1.32	1.22	1.12	0.89	0.72	0.56	0.50	0.38	
11	0.37	0.64	1.33	1.18	1.27	1.26	1.06	0.88	0.72	0.56	0.49	0.37	
12	0.37	0.60	1.04	1.29	1.30	1.38	1.05	0.86	0.69	0.56	0.50	0.35	
13	0.39	0.58	1.29	1.14	1.31	1.48	1.05	0.85	0.68	0.55	0.50	0.33	
14	0.42	0.57	1.52	1.06	1.21	1.23	1.03	0.88	0.66	0.55	0.49	0.33	
15	0.43	0.52	1.82	1.03	1.16	1.24	1.00	0.87	0.66	0.56	0.48	0.33	
16	0.45	0.59	1.52	1.03	1.11	1.17	1.08	0.86	0.66	0.57	0.48	0.32	
17	0.45	0.76	1.25	0.99	1.14	1.20	1.06	0.83	0.66	0.57	0.48	0.30	
18	0.47	1.02	1.15	0.97	1.16	1.28	1.06	0.83	0.65	0.56	0.48	0.30	
19	0.59	0.87	1.28	0.96	1.39	1.19	1.27	0.82	0.66	0.56	0.48	0.30	
20	0.61	1.13	1.15	1.03	1.29	1.46	1.24	0.81	0.65	0.56	0.48	0.30	
21	0.57	0.93	1.98	1.34	1.42	1.70	1.16	0.80	0.64	0.55	0.49	0.32	
22	0.59	0.89	1.35	1.38	1.34	1.63	1.19	0.79	0.62	0.55	0.48	0.32	
23	0.61	1.04	1.18	1.50	1.63	1.68	1.14	0.78	0.62	0.56	0.47	0.33	
24	0.59	0.99	1.14	1.47	1.31	1.50	1.06	0.77	0.61	0.55	0.46	0.32	
25	0.54	1.02	1.06	1.24	1.20	1.32	1.00	0.80	0.60	0.54	0.45	0.31	
26	0.57	0.89	1.01	1.13	1.20	1.31	0.96	0.91	0.62	0.54	0.45	0.35	
27	0.62	1.15	0.97	1.07	1.52	1.49	0.93	0.98	0.62	0.53	0.47	0.39	
28	0.65	0.97	0.92	1.03	1.18	1.40	0.92	0.86	0.61	0.53	0.47	0.60	
29	0.95	0.85	0.89	1.03	1.13	1.45	0.97	0.83	0.61	0.53		0.52	
30	0.77	0.79	0.86	1.01	1.09	1.30	0.95	0.78	0.60	0.55		0.50	
31		0.79		1.09	1.09		0.94		0.60	0.57		0.46	
MEAN	0.50	0.80	1.17	1.16	1.29	1.29	1.11	0.89	0.67	0.56	0.49	0.39	
MAX	0.95	1.15	1.98	1.50	1.99	1.70	1.40	1.14	0.78	0.60	0.54	0.60	1.99
MIN	0.37	0.52	0.79	0.95	1.05	0.96	0.92	0.77	0.60	0.53	0.45	0.30	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.52 M (A.D), AT 2.00 HOURS, ON AUG 7, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.29	3.47	2.22	4.30	11.16	9.70	12.70	3.88	2.06	1.00	0.70	0.38	
2	0.26	2.06	2.69	5.34	7.60	6.70	9.10	3.74	1.98	1.00	0.55	0.32	
3	0.23	1.90	2.30	8.50	5.85	7.60	9.10	3.88	2.14	0.95	0.60	0.32	
4	0.23	1.90	3.74	6.70	6.02	6.36	10.72	4.44	1.98	0.90	0.60	0.38	
5	0.19	1.58	11.60	10.94	9.10	5.68	10.94	5.00	1.90	0.90	0.55	0.32	
6	0.19	1.40	18.12	10.10	18.44	5.85	9.30	6.53	1.82	0.90	0.60	0.32	
7	0.19	1.20	7.42	11.82	31.42	5.00	7.60	7.42	1.74	0.90	0.55	0.29	
8	0.20	1.40	5.17	9.50	15.20	4.44	7.06	5.17	1.66	0.85	0.60	0.23	
9	0.19	1.90	4.02	9.10	12.95	5.51	9.70	4.16	1.66	0.85	0.60	0.19	
10	0.18	1.40	4.02	7.24	10.94	8.90	7.06	3.47	1.66	0.80	0.50	0.18	
11	0.17	1.20	11.16	8.14	9.90	9.70	6.02	3.34	1.66	0.80	0.47	0.17	
12	0.17	1.00	5.68	10.30	10.50	12.26	5.85	3.08	1.45	0.80	0.50	0.15	
13	0.19	0.90	10.30	7.42	10.72	14.70	5.85	2.95	1.40	0.75	0.50	0.13	
14	0.26	0.85	15.72	6.02	8.70	9.10	5.51	3.34	1.30	0.75	0.47	0.13	
15	0.29	0.60	25.12	5.51	7.78	9.30	5.00	3.21	1.30	0.80	0.44	0.13	
16	0.35	0.95	15.72	5.91	6.88	7.96	6.36	3.08	1.30	0.85	0.44	0.12	
17	0.35	1.98	9.50	4.86	7.42	8.50	6.02	2.69	1.30	0.85	0.44	0.10	
18	0.41	5.34	7.60	4.58	7.78	10.10	6.02	2.69	1.25	0.80	0.44	0.10	
19	0.95	3.21	10.10	4.44	12.48	8.32	9.90	2.56	1.30	0.80	0.44	0.10	
20	1.05	7.24	7.60	5.51	10.30	14.20	9.30	2.43	1.25	0.80	0.44	0.10	
21	0.85	4.02	31.04	11.38	13.20	21.00	7.78	2.30	1.20	0.75	0.47	0.12	
22	0.95	3.47	11.60	12.26	11.38	18.76	8.32	2.22	1.10	0.75	0.44	0.12	
23	1.05	5.68	8.14	15.20	18.76	20.36	7.42	2.14	1.10	0.80	0.41	0.13	
24	0.95	4.86	7.42	14.45	10.72	15.20	6.02	2.06	1.05	0.75	0.38	0.12	
25	0.70	5.34	6.02	9.30	8.50	10.94	5.00	2.30	1.00	0.70	0.35	0.11	
26	0.85	3.47	5.17	7.24	8.50	10.72	4.44	3.74	1.10	0.70	0.35	0.15	
27	1.10	7.60	4.58	6.19	15.72	14.95	4.02	4.72	1.10	0.65	0.41	0.19	
28	1.25	4.58	3.88	5.51	8.14	12.70	3.88	3.08	1.05	0.65	0.41	1.00	
29	4.30	2.95	3.47	5.51	7.24	13.95	4.58	2.69	1.05	0.65		0.60	
30	2.06	2.22	3.08	5.17	6.53	10.50	4.30	2.14	1.00	0.75		0.50	
31		2.22		6.53	6.53		4.16		1.00	0.85		0.38	
TOTAL	20.40	87.89	264.20	244.57	336.36	318.96	219.03	104.45	43.86	25.05	13.65	7.58	1686.00 CMSDAY
MEAN	0.68	2.84	8.81	7.89	10.85	10.63	7.07	3.48	1.41	0.81	0.49	0.24	4.62 CMS
MAX	4.30	7.60	31.04	15.20	31.42	21.00	12.70	7.42	2.14	1.00	0.70	1.00	31.42 CMS
MIN	0.17	0.60	2.22	4.30	5.85	4.44	3.88	2.06	1.00	0.65	0.35	0.10	0.10 CMS
RUNOFF	1.763	7.594	22.827	21.131	29.061	27.558	18.924	9.024	3.789	2.164	1.179	0.655	145.670 MCM

MOMENTARY PEAK 55.16 CMS, AT 2.52 M (A.D), AT 2.00 HOURS, ON AUG 7, 1981
RUNOFF YIELD 19.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 234.72 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

MUN RIVER AT BAN CHORAKHE HIN, NAKHON RATCHASIMA (M.49)

LOCATION — LAT. 14°-32'-12" N., LONG. 102°-10'-07" E., ON RIGHT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM PROPOSED DAMSITE, AMPHOE KHON BURI, NAKHON RATCHASIMA.

DRAINAGE AREA — 474 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +197.211 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE METEOROLOGICAL STATION.

ELEVATION — +205.267 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITHMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1965 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1965-1973

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1973

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

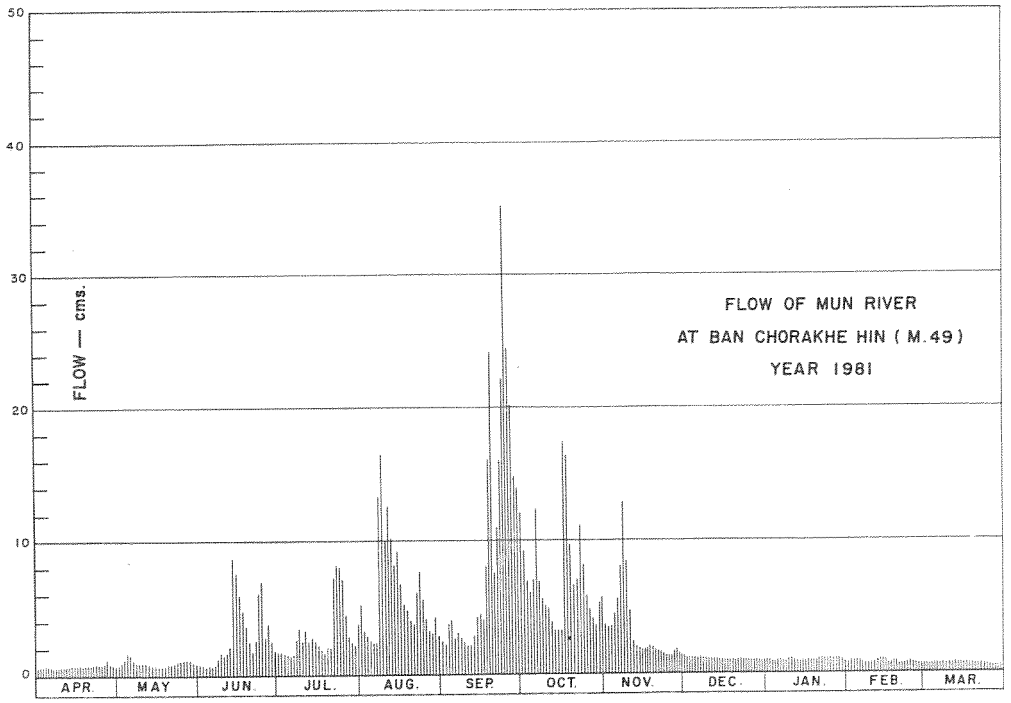
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 807 DISCHARGE MEASUREMENTS MADE DURING 1970-1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	199.05	199.17	199.22	199.99	200.57	200.20	200.93	200.48	199.71	199.42	199.25	199.02	
2	199.04	199.34	199.21	199.94	200.39	200.18	200.83	200.39	199.67	199.42	199.35	199.01	
3	199.07	199.48	199.18	199.91	200.31	200.42	200.71	200.37	199.64	199.36	199.35	199.06	
4	199.08	199.71	199.14	199.91	200.29	200.45	200.63	200.43	199.61	199.24	199.44	199.11	
5	199.07	200.07	199.12	199.85	200.26	200.30	200.71	200.53	199.59	199.26	199.50	199.14	
6	199.05	199.72	199.11	199.78	200.21	200.25	201.03	200.59	199.56	199.36	199.16	199.10	
7	199.04	199.55	199.14	200.04	200.22	200.34	200.79	200.68	199.54	199.38	199.09	199.10	
8	199.04	199.41	199.74	200.37	201.08	200.30	200.65	201.05	199.52	199.23	199.09	199.14	
9	199.03	199.30	200.03	200.31	201.21	200.22	200.57	200.80	199.50	199.23	199.11	199.15	
10	199.02	199.31	199.96	200.24	200.90	200.15	200.54	200.60	199.48	199.40	199.23	199.17	
11	199.02	199.36	199.85	200.38	201.04	200.15	200.54	200.43	199.46	199.61	199.33	199.12	
12	199.02	199.32	200.07	200.25	200.98	200.24	200.44	200.21	199.45	199.51	199.45	199.18	
13	199.04	199.25	200.50	200.22	200.81	200.33	200.34	200.14	199.44	199.28	199.51	199.18	
14	199.17	199.21	200.83	200.31	200.82	200.45	200.35	200.10	199.43	199.29	199.53	199.19	
15	199.23	199.18	200.76	200.22	200.87	200.50	200.35	200.07	199.42	199.36	199.52	199.15	
16	199.18	199.15	200.64	200.19	200.71	200.50	200.38	200.08	199.41	199.39	199.16	199.07	
17	199.16	199.12	200.57	200.11	200.59	200.43	201.24	200.10	199.40	199.38	199.24	199.03	
18	199.16	199.11	200.43	199.99	200.54	201.03	201.21	200.17	199.39	199.37	199.30	199.01	
19	199.13	199.12	200.30	199.99	200.52	201.44	200.89	200.12	199.37	199.36	199.39	199.01	
20	199.16	199.22	200.24	200.17	200.46	200.93	200.76	200.08	199.42	199.37	199.31	199.01	
21	199.21	199.19	200.11	200.13	200.42	200.75	200.68	200.04	199.37	199.53	199.09	199.02	
22	199.24	199.21	200.21	200.73	200.62	201.05	200.74	200.04	199.33	199.60	199.11	199.04	
23	199.26	199.44	200.62	200.81	200.77	201.30	200.97	199.98	199.32	199.62	199.20	199.02	
24	199.32	199.48	200.70	200.80	200.64	201.70	200.87	199.84	199.31	199.56	199.23	199.01	
25	199.31	199.43	200.48	200.74	200.52	201.51	200.69	199.78	199.31	199.55	199.24	199.01	
26	199.23	199.55	200.30	200.54	200.43	201.36	200.56	199.76	199.31	199.54	199.16	199.01	
27	199.68	199.55	200.42	200.38	200.36	201.33	200.50	199.80	199.30	199.54	199.18	199.02	
28	199.47	199.50	200.24	200.29	200.34	201.16	200.44	200.12	199.32	199.52	199.09	199.06	
29	199.23	199.44	200.10	200.24	200.47	201.11	200.40	200.00	199.43	199.49		199.06	
30	199.12	199.37	200.01	200.16	200.36	201.03	200.54	199.81	199.44	199.46		199.06	
31		199.30		200.37	200.26		200.60		199.44	199.26		199.04	
MEAN	199.16	199.37	200.04	200.24	200.58	200.70	200.67	200.22	199.45	199.42	199.27	199.07	
MAX	199.68	200.07	200.83	200.81	201.21	201.70	201.24	201.05	199.71	199.62	199.53	199.19	201.70
MIN	199.02	199.11	199.11	199.78	200.21	200.15	200.34	199.76	199.30	199.23	199.09	199.01	199.01

ANNUAL MAX MOMENTARY GAGE HEIGHT 201.73 M (MSL), AT 20.00 HOURS, ON SEP 2, 1981
ZERO GAGE AT BOTTOM ELEVATION 197.21 M (MSL), RIVER BED 195.85 M (MSL)
LEFT BANK ELEVATION 202.20 M (MSL)
RIGHT BANK ELEVATION 202.22 M (MSL), DRAINAGE AREA 474 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.68	0.72	1.58	5.17	2.20	10.30	4.22	1.21	0.92	0.75	0.56	
2	0.58	0.84	0.71	1.48	3.42	2.12	8.51	3.42	1.17	0.92	0.85	0.56	
3	0.60	0.98	0.68	1.42	2.78	3.68	6.83	3.26	1.14	0.86	0.85	0.59	
4	0.61	1.21	0.65	1.42	2.65	3.95	5.86	3.77	1.11	0.74	0.94	0.63	
5	0.60	1.74	0.64	1.35	2.50	2.70	6.83	4.73	1.09	0.76	1.00	0.65	
6	0.58	1.22	0.63	1.28	2.25	2.45	12.33	5.39	1.06	0.86	0.67	0.62	
7	0.58	1.05	0.65	1.68	2.30	3.02	7.87	6.46	1.04	0.88	0.61	0.62	
8	0.58	0.91	1.24	3.26	13.38	2.70	6.10	12.75	1.02	0.73	0.61	0.65	
9	0.57	0.80	1.66	2.78	16.48	2.30	5.17	8.00	1.00	0.73	0.63	0.66	
10	0.56	0.81	1.52	2.40	9.70	2.00	4.84	5.50	0.98	0.90	0.73	0.68	
11	0.56	0.86	1.35	3.34	12.54	2.00	4.84	3.77	0.96	1.11	0.83	0.64	
12	0.56	0.82	1.74	2.45	11.30	2.40	3.86	2.25	0.95	1.01	0.95	0.68	
13	0.58	0.75	4.40	2.30	8.17	2.94	3.02	1.96	0.94	0.78	1.01	0.68	
14	0.68	0.71	8.51	2.78	8.34	3.95	3.10	1.80	0.93	0.79	1.03	0.69	
15	0.73	0.68	7.48	2.30	9.19	4.40	3.10	1.74	0.92	0.86	1.02	0.66	
16	0.68	0.66	5.98	2.16	6.83	4.40	3.34	1.76	0.91	0.89	0.67	0.60	
17	0.67	0.64	5.17	1.84	5.39	3.77	17.32	1.80	0.90	0.88	0.74	0.57	
18	0.67	0.63	3.77	1.58	4.84	12.33	16.48	2.08	0.89	0.87	0.80	0.56	
19	0.64	0.64	2.70	1.58	4.62	24.10	9.53	1.88	0.87	0.86	0.89	0.56	
20	0.67	0.72	2.40	2.08	4.04	10.30	7.48	1.76	0.92	0.87	0.81	0.56	
21	0.71	0.69	1.84	1.92	3.68	7.35	6.46	1.68	0.87	1.03	0.61	0.56	
22	0.74	0.71	2.25	7.09	5.74	12.75	7.22	1.68	0.83	1.10	0.63	0.58	
23	0.76	0.94	5.74	8.17	7.61	19.00	11.10	1.56	0.82	1.12	0.70	0.56	
24	0.82	0.98	6.70	8.00	5.98	35.00	9.19	1.34	0.81	1.06	0.73	0.56	
25	0.81	0.93	4.22	7.22	4.62	26.90	6.58	1.28	0.81	1.05	0.74	0.56	
26	0.73	1.05	2.70	4.84	3.77	21.10	5.06	1.26	0.81	1.04	0.67	0.56	
27	1.18	1.05	3.68	3.34	3.18	20.05	4.40	1.30	0.80	1.04	0.68	0.56	
28	0.97	1.00	2.40	2.65	3.02	15.24	3.86	1.88	0.82	1.02	0.61	0.59	
29	0.73	0.94	1.80	2.40	4.13	14.04	3.50	1.60	0.93	0.99		0.59	
30	0.64	0.87	1.62	2.04	3.18	12.33	4.84	1.31	0.94	0.96		0.59	
31		0.80		3.26	2.50		5.50		0.94	0.76		0.58	
TOTAL	20.37	27.31	85.55	91.99	183.30	281.47	214.42	93.19	29.39	28.39	21.76	18.71	1095.85 CMSDAY
MEAN	0.68	0.88	2.85	2.97	5.91	9.38	6.92	3.11	0.95	0.92	0.78	0.60	3.00 CMS
MAX	1.18	1.74	8.51	8.17	16.48	35.00	17.32	12.75	1.21	1.12	1.03	0.69	35.00 CMS
MIN	0.56	0.63	0.63	1.28	2.25	2.00	3.02	1.26	0.80	0.73	0.61	0.56	0.56 CMS
RUNOFF	1.760	2.360	7.392	7.948	15.837	24.319	18.526	8.052	2.539	2.453	1.880	1.617	94.681 MCM

MOMENTARY PEAK 36.71 CMS, AT 201.73 M (MSL), AT 20.00 HOURS, ON SEP 2, 1981
RUNOFF YIELD 6.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 77.45 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +203.50 M. (M.S.L.)

BENCH MARK — B.M.-M.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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

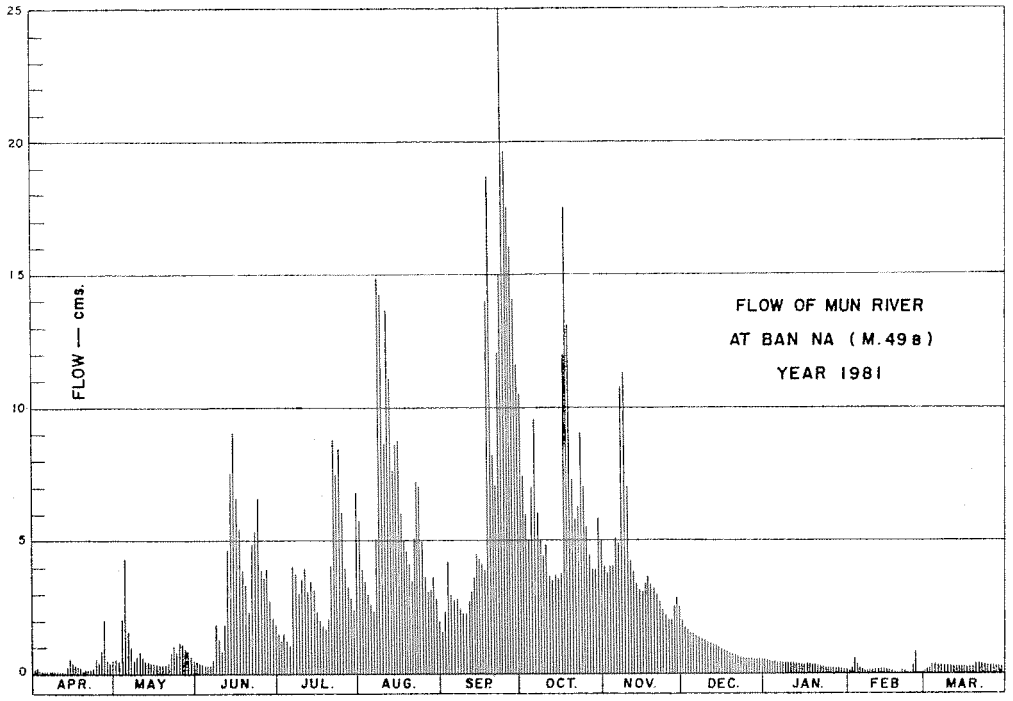
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 141 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	203.87	204.23	204.10	204.81	205.79	204.84	206.28	205.67	205.00	204.20	203.88	203.89	
2	203.90	204.20	204.03	204.69	205.59	205.12	206.09	205.59	204.94	204.19	203.87	203.90	
3	203.79	204.16	204.00	204.78	205.48	205.70	205.85	205.67	204.89	204.18	204.29	204.00	
4	203.78	205.70	203.98	204.73	205.38	205.46	205.81	205.65	204.84	204.17	203.98	204.05	
5	203.75	205.29	203.97	204.61	205.27	205.26	206.17	206.00	204.79	204.16	203.91	204.03	
6	203.74	204.84	203.97	204.57	205.16	205.36	206.44	205.81	204.76	204.14	203.88	204.01	
7	203.74	204.50	204.22	205.66	205.40	205.31	206.05	206.57	204.73	204.12	203.88	204.00	
8	203.74	204.26	205.03	205.57	206.95	205.22	205.85	206.62	204.69	204.11	203.87	203.99	
9	203.74	204.18	204.71	205.40	206.89	205.14	205.72	206.28	204.66	204.12	203.86	203.98	
10	203.74	204.40	204.47	205.52	206.34	205.15	205.81	205.88	204.63	204.11	203.86	203.97	
11	203.74	204.31	204.37	205.61	206.84	205.28	205.64	205.73	204.62	204.10	203.86	203.96	
12	203.74	204.19	205.46	205.41	206.52	205.45	205.51	205.63	204.60	204.08	203.86	203.95	
13	203.77	204.12	205.96	205.49	206.22	205.54	205.51	205.53	204.58	204.07	203.88	203.95	
14	204.20	204.09	206.38	205.52	206.34	205.76	205.59	205.47	204.54	204.06	203.90	203.96	
15	204.12	204.05	206.08	205.31	206.35	205.73	205.51	205.41	204.50	204.06	203.88	203.95	
16	204.08	204.02	206.08	205.16	206.05	205.68	205.60	205.41	204.46	204.05	203.87	203.94	
17	203.98	204.01	205.80	205.01	205.86	205.60	207.15	205.55	204.42	204.04	203.85	203.93	
18	203.96	203.98	205.62	204.91	205.79	207.13	206.80	205.52	204.38	204.03	203.81	203.92	
19	203.80	204.00	205.51	204.89	205.75	207.23	206.29	205.47	204.34	204.02	203.75	203.96	
20	203.80	204.04	205.31	204.87	205.64	206.29	206.13	205.43	204.32	204.00	203.72	204.10	
21	203.80	204.05	205.11	205.20	205.51	206.14	205.96	205.40	204.30	203.97	203.87	204.10	
22	203.81	204.31	205.81	206.36	206.16	206.76	206.03	205.34	204.29	203.98	203.84	204.09	
23	203.86	204.56	205.96	206.19	206.14	207.16	206.38	205.24	204.28	203.97	203.75	204.07	
24	204.22	204.40	206.08	206.32	205.84	207.72	206.14	205.15	204.27	203.96	203.68	204.05	
25	204.10	204.38	205.65	206.03	205.63	207.28	205.95	205.09	204.26	203.96	204.45	204.03	
26	204.22	204.64	205.55	205.78	205.51	207.13	205.85	205.05	204.25	203.95	203.79	204.01	
27	205.06	204.54	205.63	205.55	205.40	207.01	205.70	205.24	204.24	203.94	203.77	203.99	
28	204.29	204.44	205.29	205.42	205.45	206.84	205.62	205.36	204.26	203.94	203.75	204.00	
29	204.11	204.29	205.12	205.31	205.57	206.68	205.62	205.32	204.25	203.91		203.99	
30	204.07	204.20	205.06	205.18	205.29	206.58	205.97	205.16	204.23	203.88		203.98	
31		204.14		206.11	205.02		205.83		204.21	203.88		203.97	
MEAN	203.95	204.34	205.14	205.35	205.84	206.05	205.96	205.57	204.50	204.04	203.88	203.99	
MAX	205.06	205.70	206.38	206.36	206.95	207.72	207.15	206.62	205.00	204.20	204.45	204.10	207.72
MIN	203.74	203.98	203.97	204.57	205.02	204.84	205.51	205.05	204.21	203.88	203.68	203.89	203.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 207.75 M (MSL), AT 6.00 HOURS, ON SEP 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 203.50 M (MSL), RIVER BED 203.50 M (MSL)
LEFT BANK ELEVATION 210.09 M (MSL)
RIGHT BANK ELEVATION 210.04 M (MSL), DRAINAGE AREA 434 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.17	0.54	0.40	1.52	4.74	1.58	8.14	4.08	1.90	0.50	0.18	0.19	
2	0.20	0.50	0.33	1.28	3.76	2.16	6.73	3.76	1.78	0.49	0.17	0.20	
3	0.09	0.46	0.30	1.46	3.32	4.20	5.10	4.08	1.68	0.48	0.63	0.30	
4	0.08	4.20	0.28	1.36	2.94	3.24	4.86	4.00	1.58	0.47	0.28	0.35	
5	0.05	2.67	0.27	1.12	2.61	2.58	7.29	6.10	1.48	0.46	0.21	0.33	
6	0.04	1.58	0.27	1.06	2.28	2.88	9.56	4.86	1.42	0.44	0.18	0.31	
7	0.04	0.95	0.53	4.04	3.00	2.73	6.45	10.80	1.36	0.42	0.18	0.30	
8	0.04	0.59	1.96	3.68	14.95	2.46	5.10	11.30	1.28	0.41	0.17	0.29	
9	0.04	0.48	1.32	3.00	14.19	2.22	4.32	8.14	1.22	0.42	0.16	0.28	
10	0.04	0.80	0.90	3.48	8.66	2.25	4.86	5.28	1.16	0.41	0.16	0.27	
11	0.04	0.67	0.76	3.84	13.64	2.64	3.96	4.38	1.14	0.40	0.16	0.26	
12	0.04	0.49	3.24	3.04	10.30	3.20	3.44	3.92	1.10	0.38	0.16	0.25	
13	0.07	0.42	5.82	3.36	7.66	3.56	3.44	3.52	1.07	0.37	0.18	0.25	
14	0.50	0.39	9.02	3.48	8.66	4.56	3.76	3.28	1.01	0.36	0.20	0.26	
15	0.42	0.35	6.66	2.73	8.75	4.38	3.44	3.04	0.95	0.36	0.18	0.25	
16	0.38	0.32	6.66	2.28	6.45	4.12	3.80	3.04	0.89	0.35	0.17	0.24	
17	0.28	0.31	4.80	1.92	5.16	3.80	17.60	3.60	0.83	0.34	0.15	0.23	
18	0.26	0.28	3.88	1.72	4.74	17.32	13.20	3.48	0.77	0.33	0.11	0.22	
19	0.10	0.30	3.44	1.68	4.50	18.75	8.22	3.28	0.71	0.32	0.05	0.26	
20	0.10	0.34	2.73	1.64	3.96	8.22	7.01	3.12	0.68	0.30	0.02	0.40	
21	0.10	0.35	2.13	2.40	3.44	7.08	5.82	3.00	0.65	0.27	0.17	0.40	
22	0.11	0.67	4.86	8.84	7.22	12.76	6.31	2.82	0.63	0.28	0.14	0.39	
23	0.16	1.04	5.82	7.43	7.08	17.74	9.02	2.52	0.62	0.27	0.05	0.37	
24	0.53	0.80	6.66	8.48	5.04	27.40	7.08	2.25	0.61	0.26	0.00	0.35	
25	0.40	0.77	4.00	6.31	3.92	19.50	5.75	2.08	0.59	0.26	0.88	0.33	
26	0.53	1.18	3.60	4.68	3.44	17.32	5.10	2.00	0.58	0.25	0.09	0.31	
27	2.02	1.01	3.92	3.60	3.00	15.73	4.20	2.52	0.56	0.24	0.07	0.29	
28	0.63	0.86	2.67	3.08	3.20	13.64	3.88	2.88	0.59	0.24	0.05	0.30	
29	0.41	0.63	2.16	2.73	3.68	11.90	3.88	2.76	0.58	0.21		0.29	
30	0.37	0.50	2.02	2.34	2.67	10.90	5.89	2.28	0.54	0.18		0.28	
31		0.44		6.87	1.94		4.98		0.52	0.18		0.27	
TOTAL	8.24	24.89	91.41	104.45	178.90	250.82	192.19	122.17	30.48	10.65	5.15	9.02	1026.37 CMSDAY
MEAN	0.27	0.80	3.05	3.37	5.77	8.36	6.20	4.07	0.98	0.34	0.18	0.29	2.82 CMS
MAX	2.02	4.20	9.02	8.84	14.95	27.40	17.60	11.30	1.90	0.50	0.88	0.40	27.40 CMS
MIN	0.04	0.28	0.27	1.06	1.94	1.58	3.44	2.00	0.52	0.18	0.00	0.19	0.00 CMS
RUNOFF	0.712	2.150	7.898	9.024	15.457	21.671	16.605	10.555	2.633	0.920	0.445	0.779	88.851 MCM

MOMENTARY PEAK 28.00 CMS, AT 207.75 M (MSL), AT 6.00 HOURS, ON SEP 24, 1981

RUNOFF YIELD 6.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 64.52 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

LAM SAE AT KHON BURI, NAKHON RATCHASIMA (M.50)

LOCATION — LAT. 14°-31'-08" N., LONG. 102°-14'-39" E., ON RIGHT BANK ABOUT 500 METERS SOUTH OF AMPHOE KHON BURI OFFICE, AND ABOUT 30 METERS SOUTH-EAST OF THE SANITARIUM, AMPHOE KHON BURI, NAKHON RATCHASIMA.

DRAINAGE AREA — 875 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — UNDER THE BIG TREE NEAR AUTOMATIC GAGE BUILDING.

ELEVATION — +10.00 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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1965-1967

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

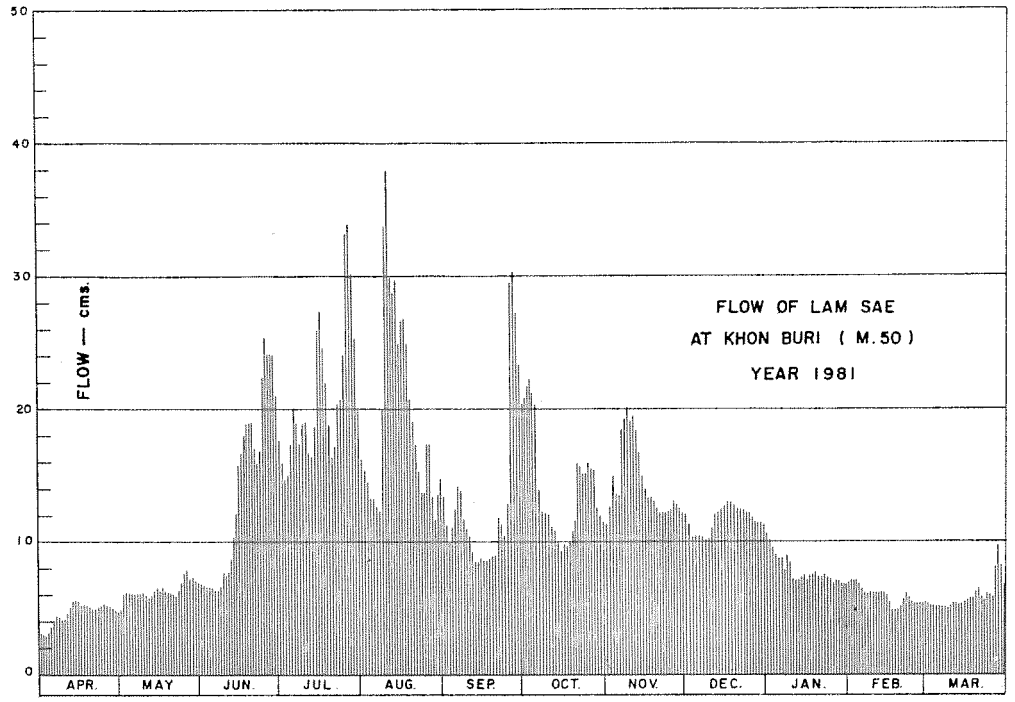
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1967.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.37	1.53	1.69	2.00	1.99	1.90	2.06	1.86	1.89	1.84	1.71	1.60	
2	1.36	1.65	1.69	1.97	1.96	1.85	2.08	1.89	1.88	1.83	1.71	1.58	
3	1.34	1.65	1.68	1.95	1.94	1.82	2.10	1.92	1.84	1.82	1.71	1.57	
4	1.39	1.65	1.68	1.96	1.92	1.84	2.09	1.96	1.83	1.80	1.71	1.57	
5	1.46	1.64	1.68	2.02	1.92	1.90	2.04	1.93	1.84	1.79	1.69	1.57	
6	1.47	1.64	1.67	2.06	1.90	1.94	1.97	1.92	1.84	1.79	1.69	1.57	
7	1.50	1.64	1.65	2.04	1.90	1.93	1.92	2.03	1.84	1.75	1.65	1.57	
8	1.50	1.64	1.67	2.01	1.89	1.88	1.89	2.05	1.83	1.78	1.65	1.56	
9	1.46	1.64	1.72	2.03	2.21	1.86	1.89	2.06	1.83	1.77	1.65	1.56	
10	1.46	1.65	1.74	2.04	2.32	1.85	1.89	2.04	1.83	1.77	1.65	1.56	
11	1.54	1.63	1.73	2.04	2.23	1.82	1.86	2.05	1.86	1.72	1.65	1.58	
12	1.56	1.62	1.74	2.00	2.20	1.78	1.85	2.04	1.89	1.71	1.65	1.59	
13	1.60	1.64	1.80	1.99	2.21	1.76	1.85	2.01	1.89	1.71	1.65	1.59	
14	1.60	1.66	1.86	2.03	2.16	1.77	1.82	1.97	1.89	1.72	1.66	1.58	
15	1.60	1.67	1.97	2.15	2.14	1.78	1.80	1.95	1.90	1.73	1.65	1.58	
16	1.57	1.65	2.00	2.18	2.17	1.78	1.82	1.94	1.90	1.71	1.62	1.60	
17	1.58	1.67	2.02	2.12	2.17	1.77	1.82	1.92	1.91	1.73	1.55	1.62	
18	1.58	1.66	2.04	2.07	2.13	1.78	1.81	1.92	1.91	1.73	1.53	1.61	
19	1.57	1.65	2.04	2.05	2.07	1.78	1.83	1.92	1.91	1.73	1.54	1.61	
20	1.54	1.65	2.04	2.01	2.05	1.79	1.87	1.90	1.90	1.73	1.55	1.66	
21	1.54	1.64	2.00	1.99	2.03	1.83	1.98	1.89	1.90	1.72	1.58	1.67	
22	1.56	1.63	1.98	2.02	1.98	1.88	1.98	1.89	1.90	1.73	1.65	1.63	
23	1.57	1.65	2.00	2.07	1.93	1.85	1.96	1.89	1.90	1.73	1.64	1.60	
24	1.58	1.68	2.09	2.07	1.93	1.83	1.96	1.89	1.89	1.72	1.62	1.64	
25	1.57	1.73	2.15	2.13	2.01	1.93	1.98	1.89	1.89	1.71	1.59	1.65	
26	1.58	1.74	2.13	2.26	2.01	2.21	1.97	1.90	1.88	1.70	1.59	1.62	
27	1.56	1.71	2.13	2.27	1.93	2.22	1.97	1.91	1.87	1.71	1.59	1.77	
28	1.55	1.72	2.13	2.19	1.90	2.18	1.94	1.91	1.87	1.71	1.59	1.82	
29	1.55	1.72	2.11	2.14	1.87	2.12	1.90	1.90	1.87	1.70		1.78	
30	1.53	1.71	2.05	2.07	1.90	2.08	1.88	1.89	1.87	1.70		1.75	
31		1.70		2.03	1.95		1.87		1.86	1.70		1.69	
MEAN	1.52	1.66	1.90	2.06	2.03	1.89	1.92	1.94	1.87	1.74	1.63	1.62	
MAX	1.60	1.74	2.15	2.27	2.32	2.22	2.10	2.06	1.91	1.84	1.71	1.82	2.32
MIN	1.34	1.53	1.65	1.95	1.87	1.76	1.80	1.86	1.83	1.70	1.53	1.56	1.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.38 M (A.D), AT 18.00 HOURS, ON AUG 9, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.09 M (A.D)
LEFT BANK ELEVATION 3.75 M (A.D)
RIGHT BANK ELEVATION 4.21 M (A.D), DRAINAGE AREA 875 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.13	4.73	6.67	16.80	16.37	12.50	20.04	11.14	12.16	10.46	7.03	5.50	
2	3.04	6.15	6.67	15.51	15.08	10.80	21.12	12.16	11.82	10.12	7.03	5.28	
3	2.86	6.15	6.54	14.65	14.22	9.78	22.20	13.36	10.46	9.78	7.03	5.17	
4	3.31	6.15	6.54	15.08	13.36	10.46	21.66	15.08	10.12	9.10	7.03	5.17	
5	4.00	6.02	6.54	17.88	13.36	12.50	18.96	13.79	10.46	8.87	6.67	5.17	
6	4.10	6.02	6.41	20.04	12.50	14.22	15.51	13.36	10.46	8.87	6.67	5.17	
7	4.40	6.02	6.15	18.96	12.50	13.79	13.36	18.42	10.46	7.95	6.15	5.17	
8	4.40	6.02	6.41	17.34	12.16	11.82	12.16	19.50	10.12	8.64	6.15	5.06	
9	4.00	6.02	7.26	18.42	29.44	11.14	12.16	20.04	10.12	8.41	6.15	5.06	
10	4.00	6.15	7.72	18.96	37.80	10.80	12.16	18.96	10.12	8.41	6.15	5.06	
11	4.84	5.89	7.49	18.96	30.92	9.78	11.14	19.50	11.14	7.26	6.15	5.28	
12	5.06	5.76	7.72	16.80	28.70	8.64	10.80	18.96	12.16	7.03	6.15	5.39	
13	5.50	6.02	9.10	16.37	29.44	8.18	10.80	17.34	12.16	7.03	6.15	5.39	
14	5.50	6.28	11.14	18.42	26.10	8.41	9.78	15.51	12.16	7.26	6.28	5.28	
15	5.50	6.41	15.51	25.45	24.80	8.64	9.10	14.65	12.50	7.49	6.15	5.28	
16	5.17	6.15	16.80	27.40	26.75	8.64	9.78	14.22	12.50	7.03	5.76	5.50	
17	5.28	6.41	17.88	23.50	26.75	8.41	9.78	13.36	12.93	7.49	4.95	5.76	
18	5.28	6.28	18.96	20.58	24.15	8.64	9.44	13.36	12.93	7.49	4.73	5.63	
19	5.17	6.15	18.96	19.50	20.58	8.64	10.12	13.36	12.93	7.49	4.84	5.63	
20	4.84	6.15	18.96	17.34	19.50	8.87	11.48	12.50	12.50	7.49	4.95	6.28	
21	4.84	6.02	16.80	16.37	18.42	10.12	15.94	12.16	12.50	7.26	5.28	6.41	
22	5.06	5.89	15.94	17.88	15.94	11.82	15.94	12.16	12.50	7.49	6.15	5.89	
23	5.17	6.15	16.80	20.58	13.79	10.80	15.08	12.16	12.50	7.49	6.02	5.50	
24	5.28	6.54	21.66	20.58	13.79	10.12	15.08	12.16	12.16	7.26	5.76	6.02	
25	5.17	7.49	25.45	24.15	17.34	13.79	15.94	12.16	12.16	7.03	5.39	6.15	
26	5.28	7.72	24.15	33.14	17.34	29.44	15.51	12.50	11.82	6.80	5.39	5.76	
27	5.06	7.03	24.15	33.88	13.79	30.18	15.51	12.93	11.48	7.03	5.39	8.41	
28	4.95	7.26	24.15	28.05	12.50	27.40	14.22	12.93	11.48	7.03	5.39	9.78	
29	4.95	7.26	22.85	24.80	11.48	23.50	12.50	12.50	11.48	6.80		8.64	
30	4.73	7.03	19.50	20.58	12.50	21.12	11.82	12.16	11.48	6.80		7.95	
31		6.80		18.42	14.65		11.48		11.14	6.80		6.67	
TOTAL	139.87	196.12	420.88	636.39	596.02	392.35	430.57	432.39	360.91	241.46	166.94	184.41	4198.90 CMSDAY
MEAN	4.66	6.33	14.03	20.53	19.23	13.10	13.89	14.41	11.64	7.79	5.96	5.95	11.50 CMS
MAX	5.50	7.72	25.45	33.88	37.80	30.18	22.20	20.04	12.93	10.46	7.03	9.78	37.80 CMS
MIN	2.86	4.73	6.15	14.65	11.48	8.18	9.10	11.14	10.12	6.80	4.73	5.06	2.86 CMS
RUNOFF	12.085	16.945	36.364	54.984	51.496	33.951	37.201	37.358	31.183	20.862	14.424	15.933	362.785 MCM

MOMENTARY PEAK 42.90 CMS, AT 2.38 M (A.D), AT 18.00 HOURS, ON AUG 9, 1981

RUNOFF YIELD 13.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 49.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

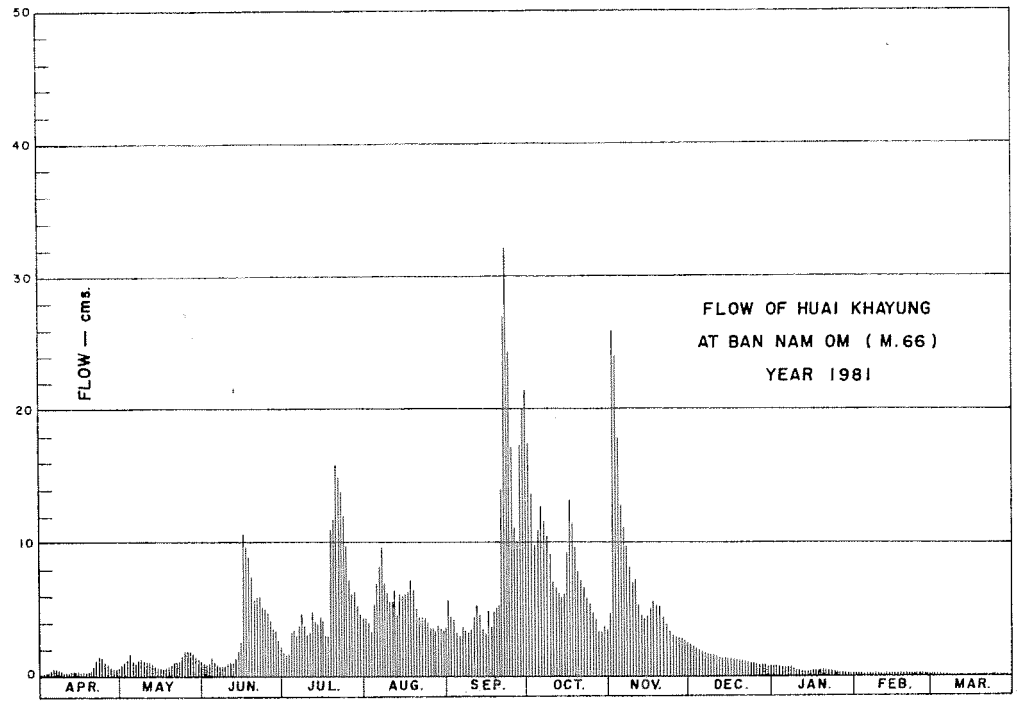
HUAI KHAYUNG AT BAN NAM OM, SI SA KET (M.66)

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 AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D. NO.1
LOCATION	AT THE FOOT OF THE LADDER OF 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 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1965-1968, 1972 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 27 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.32	0.32	0.44	0.71	0.81	1.46	0.73	0.50	0.30	0.19	0.16	
2	0.20	0.33	0.32	0.41	0.69	0.73	1.29	1.73	0.49	0.29	0.19	0.16	
3	0.21	0.37	0.33	0.41	0.63	0.70	1.17	1.65	0.47	0.28	0.19	0.16	
4	0.20	0.42	0.40	0.63	0.72	0.64	1.08	1.38	0.46	0.27	0.18	0.16	
5	0.24	0.37	0.33	0.64	0.85	0.60	1.13	1.25	0.46	0.27	0.17	0.16	
6	0.26	0.32	0.30	0.60	0.95	0.60	1.23	1.17	0.44	0.27	0.19	0.16	
7	0.25	0.34	0.30	0.69	1.07	0.67	1.19	1.07	0.44	0.26	0.18	0.16	
8	0.24	0.38	0.29	0.74	0.91	0.62	1.13	1.00	0.42	0.27	0.19	0.15	
9	0.22	0.37	0.30	0.66	0.87	0.63	1.07	0.91	0.41	0.26	0.19	0.15	
10	0.20	0.34	0.32	0.61	0.80	0.68	0.98	0.93	0.40	0.25	0.19	0.15	
11	0.20	0.34	0.35	0.62	0.80	0.73	0.91	0.80	0.39	0.25	0.18	0.15	
12	0.20	0.33	0.32	0.75	0.87	0.79	0.88	0.77	0.39	0.24	0.18	0.15	
13	0.23	0.30	0.40	0.69	0.73	0.69	0.86	0.73	0.38	0.23	0.18	0.14	
14	0.23	0.27	0.47	0.67	0.85	0.64	0.83	0.71	0.39	0.23	0.18	0.15	
15	0.21	0.27	0.63	0.72	0.83	0.63	0.84	0.73	0.38	0.23	0.18	0.15	
16	0.21	0.25	1.18	0.70	0.84	0.75	1.11	0.78	0.37	0.23	0.17	0.15	
17	0.21	0.25	1.05	0.61	0.86	0.65	1.25	0.81	0.37	0.23	0.15	0.13	
18	0.21	0.28	1.02	0.60	0.92	0.72	1.17	0.78	0.37	0.23	0.15	0.13	
19	0.22	0.28	0.93	1.14	0.87	0.77	1.07	0.79	0.37	0.22	0.16	0.14	
20	0.23	0.30	0.81	1.18	0.79	0.78	0.99	0.72	0.35	0.23	0.16	0.13	
21	0.30	0.33	0.83	1.36	0.72	1.31	0.93	0.71	0.35	0.23	0.17	0.14	
22	0.35	0.33	0.83	1.32	0.70	1.76	0.88	0.67	0.33	0.22	0.17	0.13	
23	0.42	0.39	0.77	1.27	0.72	1.94	0.83	0.64	0.32	0.21	0.17	0.14	
24	0.38	0.43	0.77	1.16	0.70	1.63	0.81	0.61	0.31	0.21	0.17	0.13	
25	0.33	0.46	0.75	1.02	0.65	1.35	0.75	0.59	0.31	0.20	0.16	0.12	
26	0.33	0.46	0.69	0.90	0.65	1.16	0.70	0.59	0.31	0.21	0.16	0.12	
27	0.28	0.46	0.64	0.84	0.63	1.10	0.66	0.58	0.30	0.20	0.17	0.13	
28	0.26	0.42	0.64	0.87	0.67	1.41	0.63	0.57	0.30	0.20	0.17	0.13	
29	0.27	0.39	0.56	0.76	0.66	1.54	0.62	0.55	0.30	0.20		0.12	
30	0.27	0.37	0.51	0.74	0.65	1.58	0.66	0.53	0.29	0.20		0.15	
31		0.34		0.71	0.64		0.64		0.29	0.19		0.18	
MEAN	0.25	0.35	0.58	0.79	0.77	0.95	0.96	0.85	0.38	0.24	0.17	0.14	
MAX	0.42	0.46	1.18	1.36	1.07	1.94	1.46	1.73	0.50	0.30	0.19	0.18	1.94
MIN	0.19	0.25	0.29	0.41	0.63	0.60	0.62	0.53	0.29	0.19	0.15	0.12	0.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.00 M (A.D), AT 9.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.10 M (A.D)
LEFT BANK ELEVATION 9.81 M (A.D)
RIGHT BANK ELEVATION 9.83 M (A.D), DRAINAGE AREA 586 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.94	0.94	1.78	4.33	5.64	18.36	4.59	2.20	0.80	0.18	0.12	
2	0.20	1.01	0.94	1.57	4.08	4.59	14.18	25.90	2.13	0.74	0.18	0.12	
3	0.26	1.29	1.01	1.57	3.36	4.20	11.60	23.60	1.99	0.68	0.18	0.12	
4	0.20	1.64	1.50	3.36	4.46	3.48	9.84	16.32	1.92	0.62	0.16	0.12	
5	0.44	1.29	1.01	3.48	6.20	3.00	10.80	13.30	1.92	0.62	0.14	0.12	
6	0.56	0.94	0.80	3.00	7.65	3.00	12.86	11.60	1.78	0.62	0.18	0.12	
7	0.50	1.08	0.80	4.08	9.66	3.84	12.00	9.66	1.78	0.56	0.16	0.12	
8	0.44	1.36	0.74	4.72	7.05	3.24	10.80	8.40	1.64	0.62	0.18	0.10	
9	0.32	1.29	0.80	3.72	6.48	3.36	9.66	7.05	1.57	0.56	0.18	0.10	
10	0.20	1.08	0.94	3.12	5.50	3.96	8.10	7.35	1.50	0.50	0.18	0.10	
11	0.20	1.08	1.15	3.24	5.50	4.59	7.05	5.50	1.43	0.50	0.16	0.10	
12	0.20	1.01	0.94	4.85	6.48	5.37	6.62	5.11	1.43	0.44	0.16	0.10	
13	0.38	0.80	1.50	4.08	4.59	4.08	6.34	4.59	1.36	0.38	0.16	0.08	
14	0.38	0.62	1.99	3.84	6.20	3.48	5.92	4.33	1.43	0.38	0.16	0.10	
15	0.26	0.62	3.36	4.46	5.92	3.36	6.06	4.59	1.36	0.38	0.16	0.10	
16	0.26	0.50	11.80	4.20	6.06	4.85	10.40	5.24	1.29	0.38	0.14	0.10	
17	0.26	0.50	9.30	3.12	6.34	3.60	13.30	5.64	1.29	0.38	0.10	0.06	
18	0.26	0.68	8.76	3.00	7.20	4.46	11.60	5.24	1.29	0.38	0.10	0.06	
19	0.32	0.68	7.35	11.00	6.48	5.11	9.66	5.37	1.29	0.32	0.12	0.08	
20	0.38	0.80	5.64	11.80	5.37	5.24	8.25	4.46	1.15	0.38	0.12	0.06	
21	0.80	1.01	5.92	15.84	4.46	14.64	7.35	4.33	1.15	0.38	0.14	0.08	
22	1.15	1.01	5.92	14.88	4.20	26.80	6.62	3.84	1.01	0.32	0.14	0.06	
23	1.64	1.43	5.11	13.74	4.46	32.28	5.92	3.48	0.94	0.26	0.14	0.08	
24	1.36	1.71	5.11	11.40	4.20	23.04	5.64	3.12	0.87	0.26	0.14	0.06	
25	1.01	1.92	4.85	8.76	3.60	15.60	4.85	2.92	0.87	0.20	0.12	0.04	
26	1.01	1.92	4.08	6.90	3.60	11.40	4.20	2.92	0.87	0.26	0.12	0.04	
27	0.68	1.92	3.48	6.06	3.36	10.20	3.72	2.84	0.80	0.20	0.14	0.06	
28	0.56	1.64	3.48	6.48	3.84	17.06	3.36	2.76	0.80	0.20	0.14	0.06	
29	0.62	1.43	2.68	4.98	3.72	20.52	3.24	2.60	0.80	0.20		0.04	
30	0.62	1.29	2.28	4.72	3.60	21.64	3.72	2.44	0.74	0.20		0.10	
31		1.08		4.33	3.48		3.48		0.74	0.18		0.16	
TOTAL	15.65	35.57	104.18	182.08	161.43	275.63	255.50	209.09	41.34	12.90	4.18	2.76	1300.31 CMSDAY
MEAN	0.52	1.15	3.47	5.87	5.21	9.19	8.24	6.97	1.33	0.42	0.15	0.09	3.56 CMS
MAX	1.64	1.92	11.80	15.84	9.66	32.28	18.36	25.90	2.20	0.80	0.18	0.16	32.28 CMS
MIN	0.18	0.50	0.74	1.57	3.36	3.00	3.24	2.44	0.74	0.18	0.10	0.04	0.04 CMS
RUNOFF	1.352	3.073	9.001	15.732	13.948	23.814	22.075	18.065	3.572	1.115	0.361	0.238	112.347 MCM

MOMENTARY PEAK 34.20 CMS, AT 2.00 M (A.D), AT 9.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 6.08 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 58.36 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — BESIDE THE LADDER OF 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

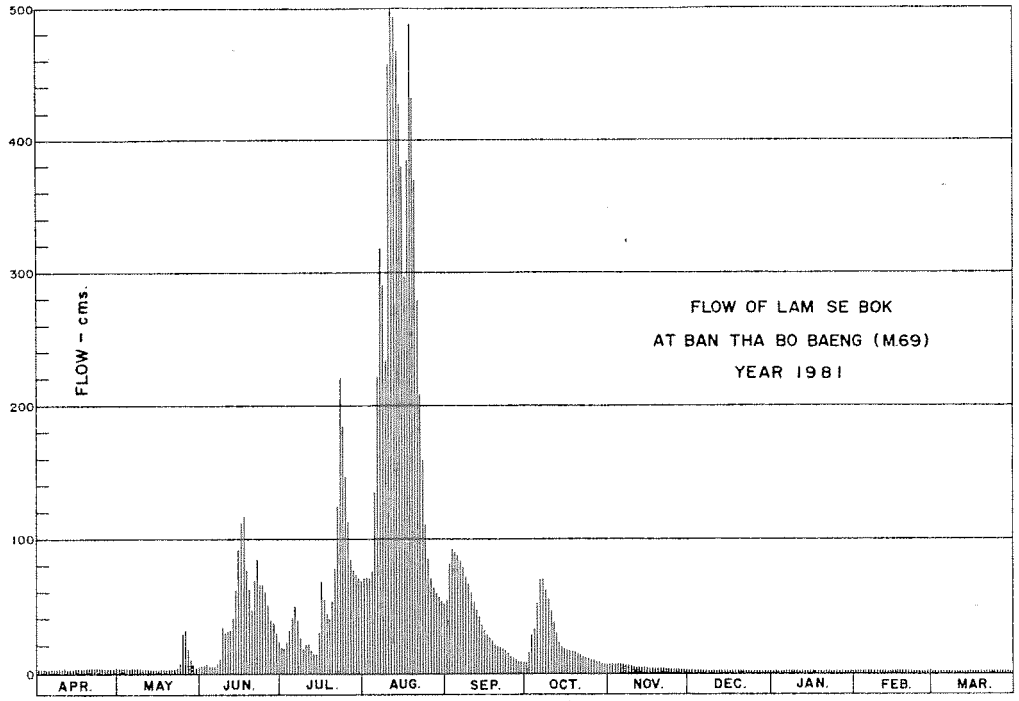
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 30 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.92	1.13	1.49	2.19	3.80	3.36	1.61	1.52	1.03	0.80	0.69	0.70	
2	0.90	1.11	1.48	2.18	3.80	4.05	1.95	1.54	1.02	0.79	0.69	0.70	
3	0.91	1.11	1.52	2.35	3.81	4.35	2.57	1.56	1.03	0.79	0.70	0.70	
4	0.92	1.12	1.39	2.76	3.93	4.32	2.71	1.58	1.03	0.80	0.71	0.70	
5	0.92	1.13	1.47	3.02	5.92	4.26	3.40	1.55	1.01	0.79	0.72	0.70	
6	0.94	1.12	1.36	3.26	7.09	4.12	3.78	1.52	0.99	0.79	0.72	0.71	
7	0.95	1.12	1.55	2.93	7.49	3.94	3.81	1.51	0.98	0.78	0.73	0.70	
8	0.96	1.12	1.78	2.47	7.17	3.76	3.67	1.46	0.98	0.78	0.73	0.69	
9	0.96	1.08	2.76	2.21	6.64	3.68	3.43	1.43	0.98	0.77	0.73	0.70	
10	0.97	1.07	2.62	2.21	8.68	3.54	3.17	1.42	0.96	0.77	0.73	0.70	
11	0.97	1.06	2.62	2.33	9.65	3.39	2.88	1.41	0.95	0.76	0.73	0.71	
12	0.97	1.04	2.66	2.20	9.32	3.20	2.60	1.41	0.94	0.75	0.72	0.70	
13	0.97	1.03	2.67	2.03	8.94	2.97	2.37	1.41	0.94	0.73	0.73	0.71	
14	1.00	1.06	3.80	1.96	8.53	2.86	2.21	1.39	0.92	0.72	0.72	0.71	
15	1.03	1.06	4.34	2.53	8.06	2.74	2.14	1.38	0.90	0.71	0.72	0.71	
16	1.05	1.10	4.76	3.75	8.69	2.61	2.11	1.37	0.91	0.71	0.72	0.70	
17	1.07	1.20	4.87	3.36	9.15	2.51	2.10	1.36	0.91	0.70	0.73	0.70	
18	1.08	1.17	4.05	3.04	8.91	2.44	2.09	1.35	0.92	0.70	0.74	0.70	
19	1.07	1.11	3.68	2.99	8.36	2.30	2.07	1.35	0.95	0.71	0.75	0.70	
20	1.08	1.08	3.15	4.51	7.66	2.26	2.01	1.34	0.92	0.73	0.75	0.69	
21	1.12	1.08	3.89	5.94	6.90	2.22	1.94	1.32	0.86	0.75	0.75	0.68	
22	1.19	1.05	4.17	6.58	6.04	2.17	1.90	1.30	0.87	0.76	0.75	0.68	
23	1.16	1.25	3.67	6.46	5.18	2.12	1.85	1.28	0.86	0.76	0.75	0.68	
24	1.13	1.38	3.69	5.96	4.54	2.04	1.80	1.26	0.85	0.77	0.74	0.68	
25	1.13	2.57	3.56	5.29	4.08	1.97	1.79	1.23	0.85	0.77	0.74	0.68	
26	1.14	2.64	3.19	4.67	3.79	1.87	1.76	1.20	0.84	0.76	0.72	0.68	
27	1.15	2.08	2.93	4.19	3.64	1.79	1.71	1.15	0.83	0.75	0.73	0.68	
28	1.13	1.66	2.87	3.91	3.56	1.69	1.68	1.10	0.82	0.74	0.72	0.68	
29	1.12	1.44	2.58	3.83	3.46	1.66	1.63	1.09	0.81	0.74		0.69	
30	1.14	1.35	2.35	3.75	3.37	1.66	1.59	1.06	0.80	0.72		0.70	
31		1.44		3.74	3.30		1.54		0.80	0.71		0.70	
MEAN	1.03	1.29	2.90	3.50	6.24	2.86	2.32	1.36	0.92	0.75	0.73	0.70	
MAX	1.19	2.64	4.87	6.58	9.65	4.35	3.81	1.58	1.03	0.80	0.75	0.71	9.65
MIN	0.90	1.03	1.36	1.96	3.30	1.66	1.54	1.06	0.80	0.70	0.69	0.68	0.68

ANNUAL MAX MOMENTARY GAGE HEIGHT 9.76 M (A.D), AT 1.00 HOURS, ON AUG 11, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.53 M (A.D)
LEFT BANK ELEVATION 11.39 M (A.D)
RIGHT BANK ELEVATION 12.39 M (A.D), DRAINAGE AREA 2132 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.60	2.65	5.64	18.75	71.00	54.10	7.56	6.12	2.15	1.00	0.45	0.50	
2	1.50	2.55	5.48	18.50	71.00	81.00	13.10	6.44	2.10	0.95	0.45	0.50	
3	1.55	2.55	6.12	22.75	71.40	93.00	29.10	6.76	2.15	0.95	0.50	0.50	
4	1.60	2.60	4.13	34.80	76.20	91.80	33.30	7.08	2.15	1.00	0.55	0.50	
5	1.60	2.65	5.32	42.60	182.40	89.40	55.50	6.60	2.05	0.95	0.60	0.50	
6	1.70	2.60	3.92	50.60	277.00	83.80	70.20	6.12	1.95	0.95	0.60	0.55	
7	1.75	2.60	6.60	39.90	317.00	76.60	71.40	5.96	1.90	0.90	0.65	0.50	
8	1.80	2.60	10.28	26.10	285.00	69.40	65.80	5.16	1.90	0.90	0.65	0.45	
9	1.80	2.40	34.80	19.25	236.20	66.20	56.55	4.68	1.90	0.85	0.65	0.50	
10	1.85	2.35	30.60	19.25	457.58	60.60	47.45	4.52	1.80	0.85	0.65	0.50	
11	1.85	2.30	30.60	22.25	586.00	55.15	38.40	4.36	1.75	0.80	0.65	0.55	
12	1.85	2.20	31.80	19.00	541.42	48.50	30.00	4.36	1.70	0.75	0.60	0.50	
13	1.85	2.15	32.10	14.75	491.64	41.10	23.25	4.36	1.70	0.65	0.65	0.55	
14	2.00	2.30	71.00	13.28	437.93	37.80	19.25	4.13	1.60	0.60	0.60	0.55	
15	2.15	2.30	92.60	27.90	381.20	34.20	17.50	4.06	1.50	0.55	0.60	0.55	
16	2.25	2.50	113.00	69.00	297.60	30.30	16.75	3.99	1.55	0.55	0.60	0.50	
17	2.35	3.00	118.50	54.10	394.00	27.30	16.50	3.92	1.55	0.50	0.65	0.50	
18	2.40	2.85	81.00	43.20	487.71	25.20	16.25	3.85	1.60	0.50	0.70	0.50	
19	2.35	2.55	66.20	41.70	417.20	21.50	15.75	3.85	1.75	0.55	0.75	0.50	
20	2.40	2.40	46.75	53.20	335.60	20.50	14.25	3.78	1.60	0.65	0.75	0.45	
21	2.60	2.40	74.60	95.60	259.00	19.50	12.92	3.64	1.30	0.75	0.75	0.40	
22	2.95	2.25	85.80	124.00	190.80	18.25	12.20	3.50	1.35	0.80	0.75	0.40	
23	2.80	3.25	65.80	221.80	134.80	17.00	11.40	3.40	1.30	0.80	0.75	0.40	
24	2.65	4.06	66.60	185.20	102.00	15.00	10.60	3.30	1.25	0.85	0.70	0.40	
25	2.65	29.10	61.40	141.40	82.20	13.46	10.44	3.15	1.25	0.85	0.70	0.40	
26	2.70	31.20	48.15	108.50	70.60	11.72	9.96	3.00	1.20	0.80	0.60	0.40	
27	2.75	16.00	39.90	86.60	64.60	10.44	9.16	2.75	1.15	0.75	0.65	0.40	
28	2.65	8.36	38.10	75.40	61.40	8.84	8.68	2.50	1.10	0.70	0.60	0.40	
29	2.60	4.84	29.40	72.20	57.60	8.36	7.88	2.45	1.05	0.70		0.45	
30	2.70	3.85	22.75	69.00	54.45	8.36	7.24	2.30	1.00	0.60		0.50	
31		4.84		68.60	52.00		6.44		1.00	0.55		0.50	
TOTAL	65.25	160.25	1328.94	1899.18	7544.52	1238.38	764.78	130.09	49.30	23.55	17.80	14.80	13236.83 CMSDAY
MEAN	2.17	5.17	44.30	61.26	243.37	41.28	24.67	4.34	1.59	0.76	0.64	0.48	36.27 CMS
MAX	2.95	31.20	118.50	221.80	586.00	93.00	71.40	7.08	2.15	1.00	0.75	0.55	586.00 CMS
MIN	1.50	2.15	3.92	13.28	52.00	8.36	6.44	2.30	1.00	0.50	0.45	0.40	0.40 CMS
RUNOFF	5.638	13.846	114.820	164.089	651.847	106.996	66.077	11.240	4.260	2.035	1.538	1.279	1143.662 MCM

MOMENTARY PEAK 601.40 CMS, AT 9.76 M (A.D), AT 1.00 HOURS, ON AUG 11, 1981
RUNOFF YIELD 17.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 282.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 13 DISCHARGE MEASUREMENTS MADE IN 1981

REMARKS — NO RECORDS DURING AUG.1-31,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

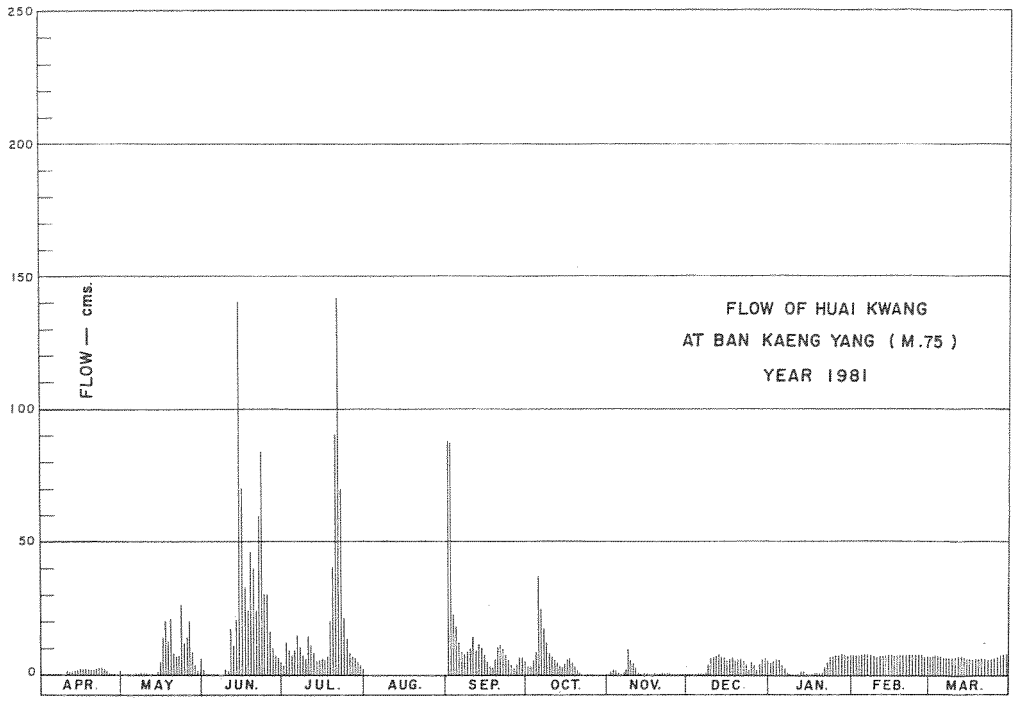
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.24	1.15	1.32	1.42	*******	3.75	1.39	1.13	0.95	1.51	1.65	1.62	
2	1.18	1.17	1.08	1.80	*******	3.72	1.38	1.28	0.95	1.51	1.65	1.61	
3	1.18	1.11	0.94	1.72	*******	2.09	1.50	1.39	0.95	1.55	1.64	1.60	
4	1.07	1.21	0.88	1.66	*******	2.07	1.65	1.29	0.95	1.56	1.65	1.62	
5	1.00	1.18	0.85	1.64	*******	1.87	2.46	1.18	1.01	1.52	1.66	1.63	
6	1.05	1.26	0.91	1.86	*******	1.71	2.19	1.13	1.09	1.39	1.67	1.61	
7	1.16	1.17	0.95	1.75	*******	1.62	1.97	1.26	1.09	1.23	1.67	1.61	
8	1.19	1.24	0.98	1.65	*******	1.70	1.81	1.72	1.31	1.17	1.65	1.60	
9	1.23	1.28	1.31	1.57	*******	1.72	1.68	1.58	1.50	1.16	1.64	1.60	
10	1.28	1.15	1.25	1.84	*******	1.73	1.60	1.49	1.61	1.15	1.62	1.57	
11	1.22	1.23	1.96	1.79	*******	1.84	1.56	1.36	1.61	1.19	1.59	1.60	
12	1.24	1.18	1.75	1.65	*******	1.66	1.50	1.21	1.63	1.21	1.61	1.59	
13	1.30	1.13	2.12	1.55	*******	1.78	1.45	1.10	1.67	1.33	1.64	1.60	
14	1.28	1.16	4.97	1.50	*******	1.73	1.42	1.06	1.61	1.25	1.64	1.64	
15	1.39	1.28	3.20	1.59	*******	1.60	1.41	1.10	1.60	1.20	1.63	1.60	
16	1.34	1.66	2.39	1.58	*******	1.46	1.57	1.05	1.52	1.19	1.63	1.59	
17	1.36	2.03	2.13	1.55	*******	1.35	1.58	1.05	1.59	1.19	1.65	1.58	
18	1.37	1.81	2.68	1.65	*******	1.37	1.52	1.03	1.56	1.19	1.64	1.56	
19	1.37	2.06	2.57	2.26	*******	1.58	1.43	0.99	1.53	1.20	1.66	1.56	
20	1.33	1.77	2.13	3.08	*******	1.74	1.32	0.99	1.59	1.21	1.65	1.57	
21	1.40	1.63	2.65	5.00	*******	1.78	1.23	1.00	1.55	1.28	1.63	1.57	
22	1.38	1.60	3.65	3.99	*******	1.73	1.12	0.99	1.53	1.45	1.64	1.59	
23	1.38	2.21	2.80	2.28	*******	1.67	1.08	0.98	1.40	1.58	1.64	1.58	
24	1.34	1.77	2.30	2.03	*******	1.59	1.10	0.96	1.29	1.63	1.64	1.57	
25	1.34	1.83	2.32	1.82	*******	1.46	1.07	0.96	1.50	1.64	1.64	1.59	
26	1.26	2.01	1.90	1.70	*******	1.33	1.06	0.98	1.45	1.66	1.65	1.60	
27	1.26	1.76	1.73	1.61	*******	1.41	1.05	0.98	1.33	1.66	1.64	1.62	
28	1.09	1.57	1.63	1.59	*******	1.59	1.04	0.97	1.45	1.68	1.62	1.64	
29	1.05	1.34	1.62	1.52	*******	1.61	1.05	0.95	1.56	1.66		1.67	
30	1.34	1.11	1.53	1.40	*******	1.59	1.04	0.95	1.59	1.63		1.68	
31		1.59		1.34	*******		1.07		1.55	1.65		1.66	
MEAN	1.25	1.47	1.95	1.92	*******	1.79	1.43	1.14	1.40	1.40	1.64	1.60	
MAX	1.40	2.21	4.97	5.00	*******	3.75	2.46	1.72	1.67	1.68	1.67	1.68	5.00
MIN	1.00	1.11	0.85	1.34	*******	1.33	1.04	0.95	0.95	1.15	1.59	1.56	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.51 M (A.D), AT 13.00 HOURS, ON AUG 10, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.04 M (A.D)

LEFT BANK ELEVATION — 8.88 M (A.D)

RIGHT BANK ELEVATION — 8.87 M (A.D), DRAINAGE AREA 388 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.00	1.80	3.30	*******	88.00	2.85	0.00	0.00	4.70	7.50	6.90	
2	0.00	0.00	0.00	12.00	*******	86.80	2.70	1.20	0.00	4.70	7.50	6.70	
3	0.00	0.00	0.00	9.20	*******	22.15	4.50	2.85	0.00	5.50	7.30	6.50	
4	0.00	0.15	0.00	7.70	*******	21.45	7.50	1.35	0.00	5.70	7.50	6.90	
5	0.00	0.00	0.00	7.30	*******	14.45	36.40	0.00	0.00	4.90	7.70	7.10	
6	0.00	0.90	0.00	14.10	*******	8.85	25.65	0.00	0.00	2.85	7.90	6.70	
7	0.00	0.00	0.00	10.25	*******	6.90	17.95	0.90	0.00	0.45	7.90	6.70	
8	0.00	0.60	0.00	7.50	*******	8.50	12.35	9.20	1.65	0.00	7.50	6.50	
9	0.45	1.20	1.65	5.90	*******	9.20	8.10	6.10	4.50	0.00	7.30	6.50	
10	1.20	0.00	0.75	13.40	*******	9.55	6.50	4.35	6.70	0.00	6.90	5.90	
11	0.30	0.45	17.60	11.65	*******	13.40	5.70	2.40	6.70	0.00	6.30	6.50	
12	0.60	0.00	10.25	7.50	*******	7.70	4.50	0.15	7.10	0.15	6.70	6.30	
13	1.50	0.00	23.20	5.50	*******	11.30	3.75	0.00	7.90	1.95	7.30	6.50	
14	1.20	0.00	140.65	4.50	*******	9.55	3.30	0.00	6.70	0.75	7.30	7.30	
15	2.85	1.20	66.00	6.30	*******	6.50	3.15	0.00	6.50	0.00	7.10	6.50	
16	2.10	7.70	33.60	6.10	*******	3.90	5.90	0.00	4.90	0.00	7.10	6.30	
17	2.40	20.05	23.55	5.50	*******	2.25	6.10	0.00	6.30	0.00	7.50	6.10	
18	2.55	12.35	45.20	7.50	*******	2.55	4.90	0.00	5.70	0.00	7.30	5.70	
19	2.55	21.10	40.80	28.40	*******	6.10	3.45	0.00	5.10	0.00	7.70	5.70	
20	1.95	10.95	23.55	61.20	*******	9.90	1.80	0.00	6.30	0.15	7.50	5.90	
21	3.00	7.10	44.00	142.00	*******	11.30	0.45	0.00	5.50	1.20	7.10	5.90	
22	2.70	6.50	84.00	97.60	*******	9.55	0.00	0.00	5.10	3.75	7.30	6.30	
23	2.70	26.40	50.00	29.20	*******	7.90	0.00	0.00	3.00	6.10	7.30	6.10	
24	2.10	10.95	30.00	20.05	*******	6.30	0.00	0.00	1.35	7.10	7.30	5.90	
25	2.10	13.05	30.80	12.70	*******	3.90	0.00	0.00	4.50	7.30	7.30	6.30	
26	0.90	19.35	15.50	8.50	*******	1.95	0.00	0.00	3.75	7.70	7.50	6.50	
27	0.90	10.60	9.55	6.70	*******	3.15	0.00	0.00	1.95	7.70	7.30	6.90	
28	0.00	5.90	7.10	6.30	*******	6.30	0.00	0.00	3.75	8.10	6.90	7.30	
29	0.00	2.10	6.90	4.90	*******	6.70	0.00	0.00	5.70	7.70		7.90	
30	2.10	0.00	5.10	3.00	*******	6.30	0.00	0.00	6.30	7.10		8.10	
31		6.30		2.10	*******		0.00		5.50	7.50		7.70	
TOTAL	36.75	184.90	711.55	567.85	*******	412.35	167.50	28.50	122.45	103.05	204.80	204.10	******** CMSDAY
MEAN	1.22	5.96	23.72	18.32	*******	13.74	5.40	0.95	3.95	3.32	7.31	6.58	******* CMS
MAX	3.00	26.40	140.65	142.00	*******	88.00	36.40	9.20	7.90	8.10	7.90	8.10	142.00 CMS
MIN	0.00	0.00	0.00	2.10	*******	1.95	0.00	0.00	0.00	0.00	6.30	5.70	******* CMS
RUNOFF	3.175	15.975	61.478	49.062	*******	35.627	14.472	2.462	10.580	8.904	17.695	17.634	******** MCM

MOMENTARY PEAK 324.05 CMS, AT 8.51 M (A.D), AT 13.00 HOURS, ON AUG 10, 1981

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 835.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

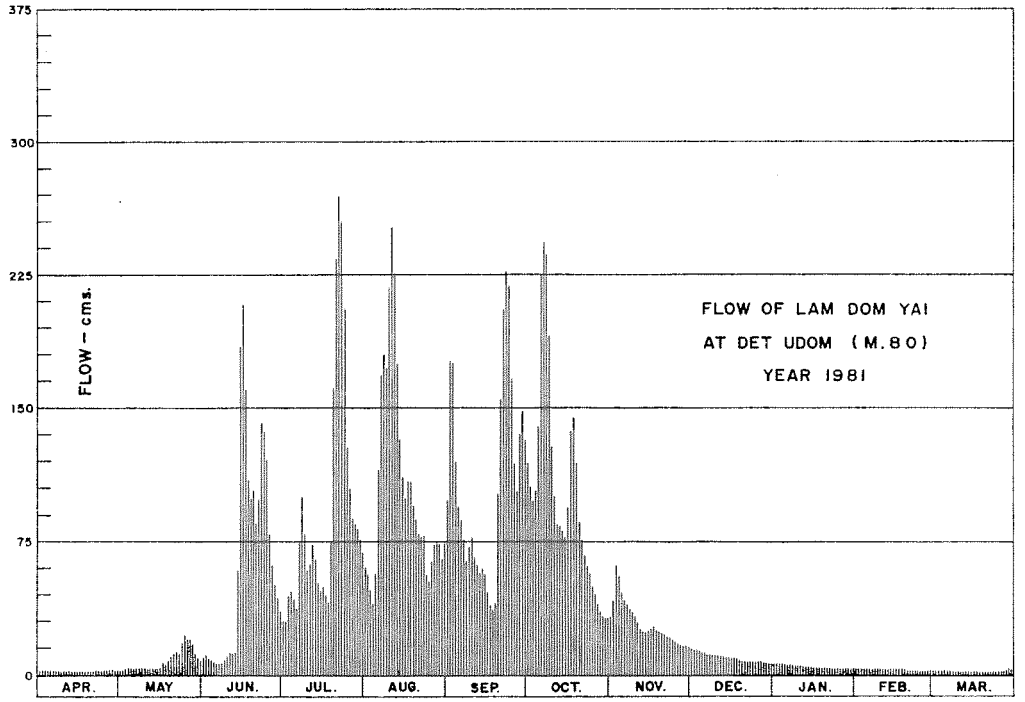
LAM DOM YAI AT DET UDOM, UBON RATCHATHANI (M.80)

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.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-n.D.
LOCATION	NEAR THE LADDER OF 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 29 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.68	0.73	1.15	1.98	2.87	3.75	4.23	2.07	1.40	0.98	0.83	0.72	
2	0.68	0.74	1.19	2.00	2.73	5.36	3.93	2.33	1.37	0.98	0.83	0.72	
3	0.68	0.78	1.11	2.37	2.48	5.35	3.76	2.88	1.35	0.98	0.83	0.72	
4	0.67	0.84	1.05	2.50	2.28	4.30	3.88	2.67	1.33	0.97	0.83	0.73	
5	0.67	0.83	1.01	2.35	2.83	3.70	4.87	2.47	1.32	0.97	0.83	0.74	
6	0.67	0.86	0.98	2.20	4.30	3.47	6.13	2.34	1.30	0.96	0.83	0.74	
7	0.68	0.84	0.97	2.96	5.18	3.14	6.70	2.30	1.22	0.96	0.83	0.73	
8	0.66	0.81	0.97	3.80	5.43	2.92	6.56	2.20	1.22	0.94	0.80	0.70	
9	0.65	0.82	1.05	3.31	5.31	3.12	5.57	2.14	1.21	0.93	0.80	0.69	
10	0.66	0.84	1.15	2.75	6.38	3.26	4.46	2.08	1.20	0.93	0.80	0.70	
11	0.66	0.82	1.29	2.87	6.84	2.96	3.81	1.95	1.19	0.90	0.80	0.70	
12	0.66	0.81	1.27	3.21	6.35	2.87	3.47	1.88	1.18	0.88	0.79	0.70	
13	0.67	0.81	1.27	2.92	5.34	2.76	3.42	1.82	1.17	0.87	0.79	0.70	
14	0.68	0.82	2.77	2.59	4.46	2.83	3.36	1.78	1.16	0.87	0.80	0.68	
15	0.67	0.82	5.53	2.50	4.02	2.73	3.24	1.79	1.14	0.87	0.80	0.68	
16	0.67	0.81	5.98	2.55	3.79	2.48	3.66	1.84	1.13	0.86	0.80	0.68	
17	0.66	1.01	5.04	2.44	3.99	2.25	4.56	1.87	1.12	0.86	0.80	0.68	
18	0.66	0.95	4.01	2.32	3.98	2.18	4.75	1.81	1.12	0.86	0.81	0.70	
19	0.66	1.07	3.77	3.11	3.77	2.34	4.24	1.78	1.08	0.85	0.79	0.69	
20	0.65	1.13	3.90	5.06	3.46	3.54	3.56	1.75	1.06	0.85	0.74	0.67	
21	0.68	1.21	3.46	6.55	3.29	5.40	3.20	1.70	1.06	0.84	0.73	0.67	
22	0.67	1.32	3.88	7.20	3.24	6.00	3.01	1.66	1.04	0.84	0.73	0.67	
23	0.69	1.22	4.66	6.88	3.02	6.36	2.85	1.63	1.04	0.83	0.72	0.67	
24	0.70	1.43	4.54	5.95	2.73	6.21	2.74	1.60	1.04	0.83	0.72	0.68	
25	0.70	1.72	4.06	4.82	2.61	5.14	2.59	1.57	1.04	0.83	0.72	0.68	
26	0.70	1.59	3.35	3.91	2.92	4.21	2.43	1.53	1.04	0.83	0.72	0.69	
27	0.73	1.61	2.84	3.51	3.15	3.87	2.29	1.49	1.04	0.83	0.72	0.71	
28	0.73	1.48	2.55	3.44	3.17	4.56	2.16	1.48	1.01	0.82	0.72	0.76	
29	0.73	1.27	2.37	3.38	3.15	4.80	2.07	1.47	1.00	0.82		0.81	
30	0.73	1.12	2.20	3.22	2.97	4.52	2.04	1.44	1.00	0.82		0.76	
31		1.07		3.10	2.83		2.06		0.99	0.82		0.76	
MEAN	0.68	1.04	2.65	3.48	3.83	3.88	3.73	1.91	1.15	0.88	0.78	0.71	
MAX	0.73	1.72	5.98	7.20	6.84	6.36	6.70	2.88	1.40	0.98	0.83	0.81	7.20
MIN	0.65	0.73	0.97	1.98	2.28	2.18	2.04	1.44	0.99	0.82	0.72	0.67	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.27 M (A.D), AT 17.00 HOURS, ON JUL 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.02 M (A.D)
LEFT BANK ELEVATION 13.67 M (A.D)
RIGHT BANK ELEVATION 12.85 M (A.D), DRAINAGE AREA 3363 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.80	2.45	10.00	29.90	61.80	97.75	119.50	32.60	15.00	6.60	3.95	2.30	
2	1.80	2.60	10.80	30.50	56.20	176.00	105.85	41.55	14.40	6.60	3.95	2.30	
3	1.80	3.20	9.20	42.95	46.80	175.50	98.20	62.20	14.00	6.60	3.95	2.30	
4	1.70	4.10	8.00	47.50	39.80	123.00	103.60	53.80	13.60	6.40	3.95	2.45	
5	1.70	3.95	7.20	42.25	60.20	95.50	151.50	46.45	13.40	6.40	3.95	2.60	
6	1.70	4.40	6.60	37.00	123.00	85.80	214.50	41.90	13.00	6.20	3.95	2.60	
7	1.80	4.10	6.40	65.40	167.00	72.60	243.00	40.50	11.40	6.20	3.95	2.45	
8	1.60	3.65	6.40	100.00	179.50	63.80	236.00	37.00	11.40	5.80	3.50	2.00	
9	1.50	3.80	8.00	79.40	173.50	71.80	186.50	34.90	11.20	5.60	3.50	1.90	
10	1.60	4.10	10.00	57.00	227.00	77.40	131.00	32.90	11.00	5.60	3.50	2.00	
11	1.60	3.80	12.80	61.80	250.00	65.40	100.45	29.00	10.80	5.00	3.50	2.00	
12	1.60	3.65	12.40	75.40	225.50	61.80	85.80	27.00	10.60	4.70	3.35	2.00	
13	1.70	3.65	12.40	62.80	175.00	57.40	83.80	25.50	10.40	4.55	3.35	2.00	
14	1.80	3.80	57.80	50.65	131.00	60.20	81.40	24.50	10.20	4.55	3.50	1.80	
15	1.70	3.80	184.50	47.50	109.90	56.20	76.60	24.75	9.80	4.55	3.50	1.80	
16	1.70	3.65	207.00	49.25	99.55	46.80	93.70	26.00	9.60	4.40	3.50	1.80	
17	1.60	7.20	160.00	45.40	108.55	38.75	136.00	26.75	9.40	4.40	3.50	1.80	
18	1.60	6.00	109.45	41.20	108.10	36.30	145.50	25.25	9.40	4.40	3.65	2.00	
19	1.60	8.40	98.65	71.40	98.65	41.90	120.00	24.50	8.60	4.25	3.35	1.90	
20	1.50	9.60	104.50	161.00	85.40	88.60	89.40	23.75	8.20	4.25	2.60	1.70	
21	1.80	11.20	85.40	235.50	78.60	178.00	75.00	22.50	8.20	4.10	2.45	1.70	
22	1.70	13.40	103.60	269.50	76.60	208.00	67.40	21.50	7.80	4.10	2.45	1.70	
23	1.90	11.40	141.00	252.00	67.80	226.00	61.00	20.75	7.80	3.95	2.30	1.70	
24	2.00	15.75	135.00	205.50	56.20	218.50	56.60	20.00	7.80	3.95	2.30	1.80	
25	2.00	23.00	111.70	149.00	51.40	165.00	50.65	19.25	7.80	3.95	2.30	1.80	
26	2.00	19.75	81.00	104.95	63.80	118.50	45.05	18.25	7.80	3.95	2.30	1.90	
27	2.45	20.25	60.60	87.40	73.00	103.15	40.15	17.25	7.80	3.95	2.30	2.15	
28	2.45	17.00	49.25	84.60	73.80	136.00	35.60	17.00	7.20	3.80	2.30	2.90	
29	2.45	12.40	42.95	82.20	73.00	148.00	32.60	16.75	7.00	3.80		3.65	
30	2.45	9.40	37.00	75.80	65.80	134.00	31.70	16.00	7.00	3.80		2.90	
31		8.40		71.00	60.20		32.30		6.80	3.80		2.90	
TOTAL	54.60	251.85	1889.60	2816.75	3266.65	3227.65	3130.35	870.05	308.40	150.20	90.65	66.80	16123.53 CMSDAY
MEAN	1.82	8.12	62.99	90.86	105.38	107.59	100.98	29.00	9.95	4.85	3.24	2.15	44.17 CMS
MAX	2.45	23.00	207.00	269.50	250.00	226.00	243.00	62.20	15.00	6.60	3.95	3.65	269.50 CMS
MIN	1.50	2.45	6.40	29.90	39.80	36.30	31.70	16.00	6.80	3.80	2.30	1.70	1.50 CMS
RUNOFF	4.717	21.760	163.261	243.367	282.238	278.869	270.462	75.172	26.646	12.977	7.832	5.772	1393.073 MCM

MOMENTARY PEAK 273.35 CMS, AT 7.27 M (A.D), AT 17.00 HOURS, ON JUL 22, 1981

RUNOFF YIELD 13.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 81.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — 1967 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1967-1969, 1981 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1967-1969, 1981 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

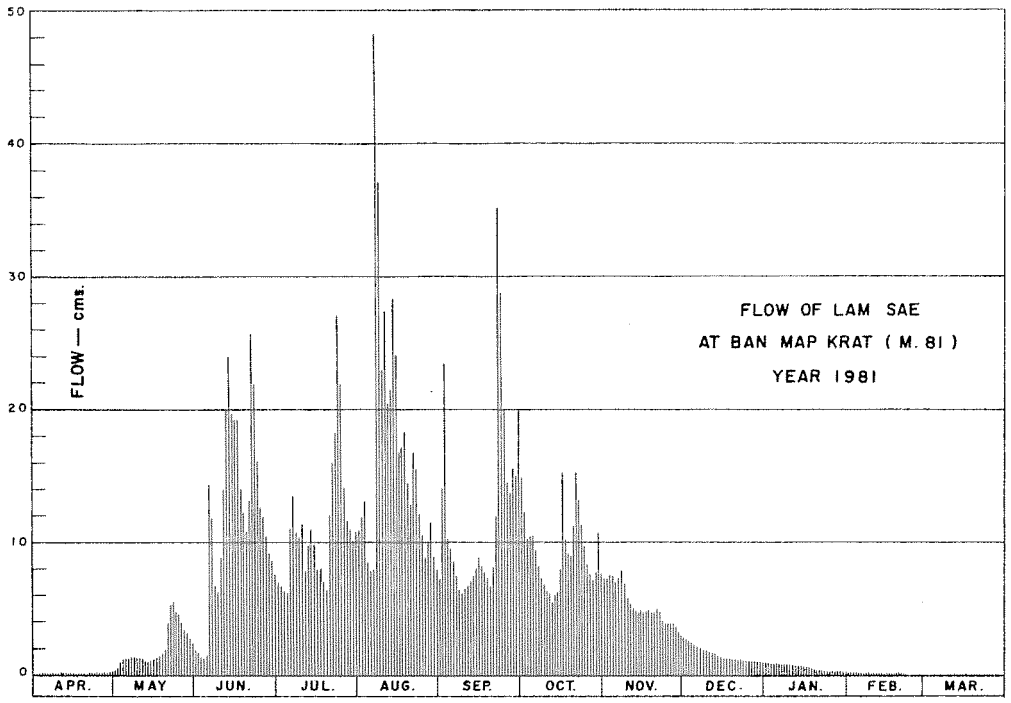
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 163 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	209.19	209.59	210.48	211.44	211.74	211.44	212.21	211.46	210.80	210.11	209.44	209.22	
2	209.17	209.78	210.40	211.41	211.80	212.34	211.93	211.43	210.77	210.10	209.43	209.17	
3	209.15	210.12	210.35	211.39	211.88	211.92	211.79	211.47	210.72	210.09	209.45	209.17	
4	209.14	210.29	210.32	211.37	211.59	211.71	211.71	211.47	210.67	210.08	209.43	209.22	
5	209.13	210.30	210.36	211.32	211.52	211.61	211.72	211.46	210.64	210.07	209.38	209.20	
6	209.12	210.29	211.95	211.62	211.50	211.56	211.72	211.40	210.61	210.06	209.40	209.20	
7	209.11	210.30	211.83	211.90	212.93	211.46	211.61	211.50	210.58	210.04	209.42	209.18	
8	209.12	210.30	211.54	211.76	212.84	211.39	211.53	211.52	210.54	210.00	209.42	209.20	
9	209.13	210.25	211.39	211.71	212.40	211.33	211.45	211.40	210.52	209.98	209.40	209.16	
10	209.11	210.26	211.33	211.77	212.32	211.35	211.42	211.32	210.49	209.96	209.41	209.15	
11	209.12	210.28	211.97	211.62	212.46	211.40	211.36	211.24	210.47	209.96	209.39	209.16	
12	209.11	210.23	212.23	211.51	212.23	211.42	211.32	211.19	210.46	209.95	209.38	209.16	
13	209.17	210.19	212.35	211.68	212.25	211.46	211.22	211.14	210.41	209.95	209.38	209.14	
14	209.22	210.12	212.20	211.76	212.49	211.49	211.31	211.11	210.39	209.93	209.39	209.13	
15	209.19	210.16	212.18	211.68	212.27	211.60	211.33	211.14	210.37	209.91	209.41	209.12	
16	209.17	210.29	212.18	211.54	212.07	211.58	211.51	211.10	210.32	209.87	209.46	209.12	
17	209.14	210.33	212.09	211.48	212.09	211.49	212.00	211.11	210.30	209.84	209.47	209.12	
18	209.13	210.35	211.91	211.53	212.14	211.48	211.71	211.14	210.29	209.80	209.41	209.11	
19	209.15	210.37	211.83	211.41	212.03	211.45	211.61	211.13	210.28	209.75	209.47	209.13	
20	209.19	210.44	211.72	211.36	211.86	211.37	211.59	211.09	210.26	209.67	209.37	209.36	
21	209.24	210.64	211.94	211.78	211.95	211.52	211.76	211.12	210.25	209.62	209.27	209.18	
22	209.25	211.21	212.41	212.07	212.07	211.82	212.00	211.19	210.24	209.59	209.28	209.12	
23	209.38	211.23	212.24	212.14	212.00	212.66	211.84	211.08	210.23	209.58	209.24	209.12	
24	209.33	211.11	212.04	212.45	211.81	212.29	211.77	210.99	210.22	209.62	209.25	209.12	
25	209.25	211.15	211.86	212.25	211.72	212.03	211.65	210.96	210.21	209.56	209.25	209.11	
26	209.38	211.01	211.83	211.99	211.63	211.97	211.55	210.97	210.20	209.55	209.26	209.11	
27	209.37	210.91	211.73	211.85	211.59	211.91	211.49	210.99	210.19	209.52	209.27	209.11	
28	209.38	210.89	211.63	211.81	211.79	212.01	211.43	210.97	210.18	209.50	209.21	209.16	
29	209.44	210.79	211.61	211.75	211.63	211.98	211.48	210.90	210.17	209.50		209.13	
30	209.56	210.68	211.49	211.68	211.56	212.08	211.73	210.85	210.15	209.48		209.11	
31		210.61		211.73	211.48		211.55		210.14	209.46		209.13	
MEAN	209.22	210.47	211.65	211.70	211.99	211.70	211.62	211.19	210.39	209.81	209.37	209.16	
MAX	209.56	211.23	212.41	212.45	212.93	212.66	212.21	211.52	210.80	210.11	209.47	209.36	212.93
MIN	209.11	209.59	210.32	211.32	211.48	211.33	211.22	210.85	210.14	209.46	209.21	209.11	209.11

ANNUAL MAX MOMENTARY GAGE HEIGHT 213.41 M (MSL), AT 18.00 HOURS, ON AUG 7, 1981
ZERO GAGE AT BOTTOM ELEVATION 208.00 M (MSL), RIVER BED 209.10 M (MSL)
LEFT BANK ELEVATION 213.97 M (MSL)
RIGHT BANK ELEVATION 214.04 M (MSL), DRAINAGE AREA 482 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.39	1.84	7.20	10.90	7.20	20.06	7.40	3.00	0.92	0.24	0.06	
2	0.04	0.58	1.60	6.90	11.80	23.60	14.07	7.10	2.88	0.90	0.23	0.04	
3	0.03	0.94	1.45	6.72	13.16	13.88	11.65	7.50	2.68	0.89	0.25	0.04	
4	0.02	1.28	1.36	6.56	8.88	10.45	10.45	7.50	2.48	0.88	0.23	0.06	
5	0.01	1.30	1.48	6.16	8.04	9.13	10.60	7.40	2.36	0.87	0.18	0.05	
6	0.01	1.28	14.45	9.26	7.80	8.52	10.60	6.80	2.24	0.86	0.20	0.05	
7	0.01	1.30	12.31	13.50	48.40	7.40	9.13	7.80	2.14	0.84	0.22	0.04	
8	0.01	1.30	8.28	11.20	43.60	6.72	8.16	8.04	2.02	0.80	0.22	0.05	
9	0.01	1.20	6.72	10.45	25.40	6.24	7.30	6.80	1.96	0.78	0.20	0.03	
10	0.01	1.22	6.24	11.35	23.00	6.40	7.00	6.16	1.87	0.76	0.21	0.03	
11	0.01	1.26	14.83	9.26	27.44	6.80	6.48	5.52	1.81	0.76	0.19	0.03	
12	0.01	1.16	20.58	7.92	20.58	7.00	6.16	5.14	1.78	0.75	0.18	0.03	
13	0.04	1.08	23.90	10.04	21.10	7.40	5.36	4.84	1.63	0.75	0.18	0.02	
14	0.06	0.94	19.80	11.20	28.46	7.70	6.08	4.66	1.57	0.73	0.19	0.01	
15	0.04	1.02	19.32	10.04	21.62	9.00	6.24	4.84	1.51	0.71	0.21	0.01	
16	0.04	1.28	19.32	8.28	16.80	8.76	7.92	4.60	1.36	0.67	0.26	0.01	
17	0.02	1.39	17.20	7.60	17.20	7.70	15.40	4.66	1.30	0.64	0.27	0.01	
18	0.01	1.45	13.69	8.16	18.36	7.60	10.45	4.84	1.28	0.60	0.21	0.01	
19	0.03	1.51	12.31	6.90	16.00	7.30	9.13	4.78	1.26	0.55	0.27	0.01	
20	0.04	1.72	10.60	6.48	12.82	6.56	8.88	4.54	1.22	0.47	0.17	0.16	
21	0.07	2.36	14.26	11.50	14.45	8.04	11.20	4.72	1.20	0.42	0.09	0.04	
22	0.08	5.28	25.74	16.80	16.80	12.14	15.40	5.14	1.18	0.39	0.09	0.01	
23	0.18	5.44	20.84	18.36	15.40	35.12	12.48	4.48	1.16	0.38	0.07	0.01	
24	0.13	4.66	16.20	27.10	11.97	22.14	11.35	3.95	1.14	0.42	0.08	0.01	
25	0.08	4.90	12.82	21.10	10.60	16.00	9.65	3.80	1.12	0.36	0.08	0.01	
26	0.18	4.06	12.31	15.21	9.39	14.83	8.40	3.85	1.10	0.35	0.08	0.01	
27	0.17	3.55	10.75	12.65	8.88	13.69	7.70	3.95	1.08	0.32	0.09	0.01	
28	0.18	3.45	9.39	11.97	11.65	15.60	7.10	3.85	1.06	0.30	0.06	0.03	
29	0.24	2.96	9.13	11.05	9.39	15.02	7.60	3.50	1.04	0.30		0.01	
30	0.36	2.52	7.70	10.04	8.52	17.00	10.75	3.25	1.00	0.28		0.01	
31		2.24		10.75	7.60		8.40		0.98	0.26		0.01	
TOTAL	2.16	65.02	366.42	341.71	526.01	344.94	301.15	161.41	50.41	18.91	4.95	0.91	2184.00 CMSDAY
MEAN	0.07	2.10	12.21	11.02	16.97	11.50	9.71	5.38	1.63	0.61	0.18	0.03	5.98 CMS
MAX	0.36	5.44	25.74	27.10	48.40	35.12	20.06	8.04	3.00	0.92	0.27	0.16	48.40 CMS
MIN	0.01	0.39	1.36	6.16	7.60	6.24	5.36	3.25	0.98	0.26	0.06	0.01	0.01 CMS
RUNOFF	0.187	5.618	31.659	29.524	45.447	29.803	26.019	13.946	4.355	1.634	0.428	0.079	188.697 MCM

MOMENTARY PEAK 89.76 CMS, AT 213.41 M (MSL), AT 18.00 HOURS, ON AUG 7, 1981

RUNOFF YIELD 12.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 186.22 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

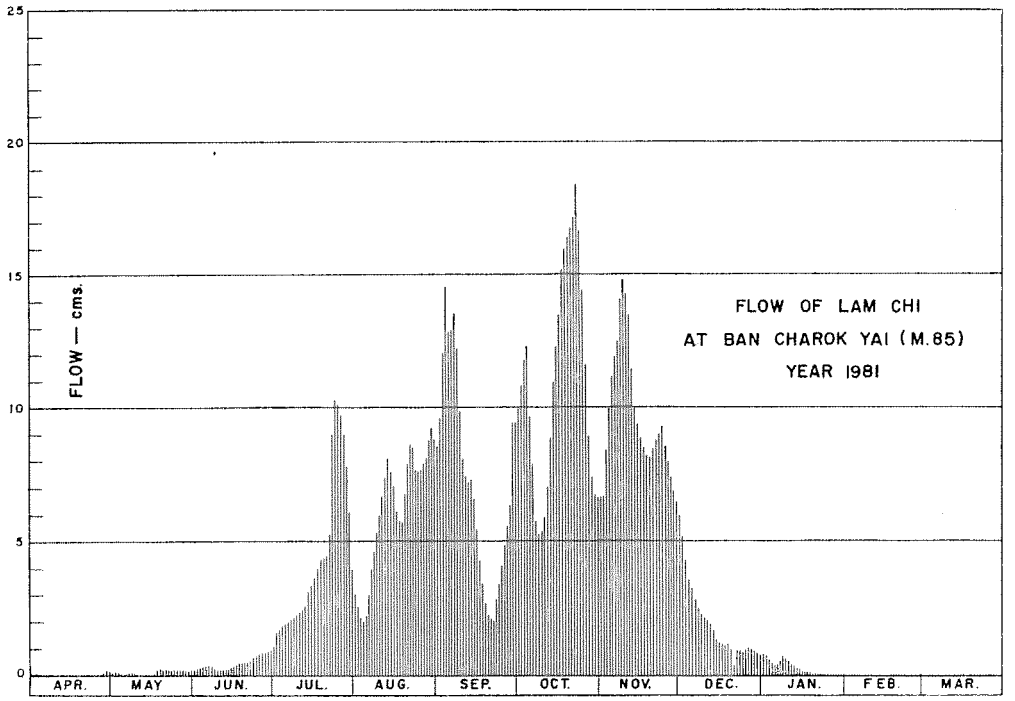
LAM CHI AT BAN CHAROK YAI, BURI RAM (M.85)

LOCATION	LAT. 14°-37'-54" N., LONG. 103°-14'-03" E., ON RIGHT BANK AT THE BRIDGE OF PRASAT - PRAKHON CHAI HIGHWAY NEAR KILOMETER MARKER 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 AT	+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	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	1969-1971, 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 20 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.69	0.72	0.99	1.34	2.00	2.10	1.78	1.66	0.94	0.54	0.51	
2	0.59	0.68	0.74	1.10	1.25	2.13	2.18	1.80	1.59	0.92	0.54	0.51	
3	0.59	0.66	0.76	1.12	1.20	2.47	2.25	1.94	1.53	0.87	0.53	0.51	
4	0.58	0.65	0.77	1.15	1.18	2.38	2.30	2.03	1.47	0.82	0.53	0.51	
5	0.57	0.64	0.78	1.17	1.24	2.34	2.12	2.20	1.41	0.79	0.53	0.51	
6	0.56	0.64	0.78	1.18	1.36	2.35	1.88	2.24	1.36	0.78	0.54	0.51	
7	0.56	0.64	0.79	1.19	1.53	2.40	1.72	2.31	1.29	0.84	0.54	0.51	
8	0.56	0.64	0.76	1.20	1.59	2.33	1.66	2.41	1.25	0.91	0.54	0.51	
9	0.56	0.65	0.74	1.22	1.68	2.14	1.61	2.49	1.22	0.88	0.54	0.51	
10	0.56	0.64	0.73	1.24	1.76	1.98	1.66	2.47	1.21	0.84	0.55	0.50	
11	0.55	0.64	0.72	1.26	1.81	1.88	1.72	2.44	1.19	0.82	0.59	0.50	
12	0.55	0.64	0.72	1.27	1.86	1.85	1.84	2.36	1.16	0.79	0.61	0.49	
13	0.55	0.64	0.73	1.28	1.94	1.86	2.04	2.23	1.12	0.77	0.63	0.49	
14	0.55	0.65	0.74	1.37	1.88	1.79	2.21	2.12	1.06	0.74	0.59	0.48	
15	0.55	0.64	0.75	1.40	1.84	1.69	2.28	2.06	1.04	0.71	0.56	0.48	
16	0.57	0.65	0.78	1.43	1.73	1.61	2.37	2.01	1.02	0.70	0.53	0.47	
17	0.59	0.66	0.80	1.47	1.69	1.45	2.43	1.99	1.00	0.69	0.52	0.47	
18	0.57	0.71	0.81	1.50	1.68	1.37	2.57	1.95	0.99	0.68	0.51	0.46	
19	0.56	0.74	0.81	1.54	1.78	1.29	2.58	1.93	1.02	0.64	0.51	0.46	
20	0.55	0.72	0.82	1.53	1.89	1.23	2.61	1.96	0.93	0.62	0.51	0.46	
21	0.56	0.72	0.83	1.55	1.99	1.20	2.63	1.99	0.80	0.61	0.51	0.46	
22	0.55	0.72	0.86	1.64	1.98	1.19	2.65	2.01	0.97	0.60	0.51	0.46	
23	0.55	0.71	0.88	2.02	1.90	1.35	2.73	2.02	0.97	0.59	0.50	0.46	
24	0.56	0.71	0.90	2.14	1.89	1.44	2.65	2.05	0.93	0.58	0.50	0.46	
25	0.56	0.71	0.91	2.13	1.90	1.54	2.51	2.01	0.97	0.57	0.50	0.46	
26	0.56	0.70	0.92	2.11	1.92	1.58	2.30	1.95	0.99	0.57	0.52	0.46	
27	0.56	0.70	0.93	2.04	1.93	1.70	2.07	1.89	0.98	0.56	0.52	0.48	
28	0.56	0.70	0.94	1.95	1.97	1.76	1.92	1.86	0.97	0.56	0.51	0.58	
29	0.70	0.69	0.95	1.78	2.04	2.06	1.83	1.78	0.95	0.55		0.68	
30	0.69	0.69	0.96	1.58	2.03	2.06	1.80	1.76	0.92	0.55		0.63	
31		0.69		1.39	1.98		1.79		0.92	0.54		0.57	
MEAN	0.57	0.68	0.81	1.48	1.73	1.81	2.16	2.07	1.13	0.71	0.54	0.50	
MAX	0.70	0.74	0.96	2.14	2.04	2.47	2.73	2.49	1.66	0.94	0.63	0.68	2.73
MIN	0.55	0.64	0.72	0.99	1.18	1.19	1.61	1.76	0.80	0.54	0.50	0.46	0.46

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.73 M (A.D), AT 18.00 HOURS, ON OCT 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -2.04 M (A.D)
LEFT BANK ELEVATION 6.55 M (A.D)
RIGHT BANK ELEVATION 6.21 M (A.D), DRAINAGE AREA 1046 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.13	0.20	1.06	2.98	8.80	9.90	6.62	5.54	0.86	0.00	0.00	
2	0.00	0.12	0.25	1.60	2.40	10.23	10.78	6.80	4.91	0.78	0.00	0.00	
3	0.00	0.09	0.30	1.70	2.10	14.58	11.65	8.14	4.37	0.61	0.00	0.00	
4	0.00	0.08	0.32	1.85	2.00	13.34	12.30	9.13	3.89	0.46	0.00	0.00	
5	0.00	0.06	0.35	1.95	2.34	12.82	10.12	11.00	3.47	0.37	0.00	0.00	
6	0.00	0.06	0.35	2.00	3.12	12.95	7.52	11.52	3.12	0.35	0.00	0.00	
7	0.00	0.06	0.37	2.05	4.37	13.60	6.08	12.43	2.64	0.52	0.00	0.00	
8	0.00	0.06	0.30	2.10	4.91	12.69	5.54	13.74	2.40	0.74	0.00	0.00	
9	0.00	0.08	0.25	2.22	5.72	10.34	5.09	14.86	2.22	0.64	0.00	0.00	
10	0.00	0.06	0.22	2.34	6.44	8.58	5.54	14.58	2.16	0.52	0.00	0.00	
11	0.00	0.06	0.20	2.46	6.89	7.52	6.08	14.16	2.05	0.46	0.00	0.00	
12	0.00	0.06	0.20	2.52	7.34	7.25	7.16	13.08	1.90	0.37	0.01	0.00	
13	0.00	0.06	0.22	2.58	8.14	7.34	9.24	11.39	1.70	0.32	0.05	0.00	
14	0.00	0.08	0.25	3.19	7.52	6.71	11.13	10.12	1.40	0.25	0.00	0.00	
15	0.00	0.06	0.28	3.40	7.16	5.81	12.04	9.46	1.30	0.17	0.00	0.00	
16	0.00	0.08	0.35	3.61	6.17	5.09	13.21	8.91	1.20	0.15	0.00	0.00	
17	0.00	0.09	0.40	3.89	5.81	3.75	14.02	8.69	1.10	0.13	0.00	0.00	
18	0.00	0.17	0.43	4.10	5.72	3.19	15.98	8.25	1.06	0.12	0.00	0.00	
19	0.00	0.25	0.43	4.46	6.62	2.64	16.12	8.03	1.20	0.06	0.00	0.00	
20	0.00	0.20	0.46	4.37	7.61	2.28	16.56	8.36	0.82	0.03	0.00	0.00	
21	0.00	0.20	0.49	4.55	8.69	2.10	16.88	8.69	0.40	0.01	0.00	0.00	
22	0.00	0.20	0.58	5.36	8.58	2.05	17.20	8.91	0.98	0.00	0.00	0.00	
23	0.00	0.17	0.64	9.02	7.70	3.05	18.48	9.02	0.98	0.00	0.00	0.00	
24	0.00	0.17	0.70	10.34	7.61	3.68	17.20	9.35	0.82	0.00	0.00	0.00	
25	0.00	0.17	0.74	10.23	7.70	4.46	15.14	8.91	0.98	0.00	0.00	0.00	
26	0.00	0.15	0.78	10.01	7.92	4.82	12.30	8.25	1.06	0.00	0.00	0.00	
27	0.00	0.15	0.82	9.24	8.03	5.90	9.57	7.61	1.02	0.00	0.00	0.00	
28	0.00	0.15	0.86	8.25	8.47	6.44	7.92	7.34	0.98	0.00	0.00	0.00	
29	0.15	0.13	0.90	6.62	9.24	9.46	7.07	6.62	0.90	0.00		0.12	
30	0.13	0.13	0.94	4.82	9.13	9.46	6.80	6.44	0.78	0.80		0.05	
31		0.13		3.33	8.58		6.71		0.78	0.00		0.00	
TOTAL	0.28	3.66	13.58	135.22	197.01	220.93	341.33	290.41	58.13	7.92	0.06	0.17	1268.70 CMSDAY
MEAN	0.01	0.12	0.45	4.36	6.36	7.36	11.01	9.68	1.88	0.26	0.00	0.01	3.48 CMS
MAX	0.15	0.25	0.94	10.34	9.24	14.58	18.48	14.86	5.54	0.86	0.05	0.12	18.48 CMS
MIN	0.00	0.06	0.20	1.06	2.00	2.05	5.09	6.44	0.40	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.024	0.316	1.173	11.683	17.022	19.088	29.491	25.091	5.022	0.684	0.005	0.015	109.615 MCM

MOMENTARY PEAK 18.48 CMS, AT 2.73 M (A.D), AT 18.00 HOURS, ON OCT 23, 1981

RUNOFF YIELD 3.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 17.67 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

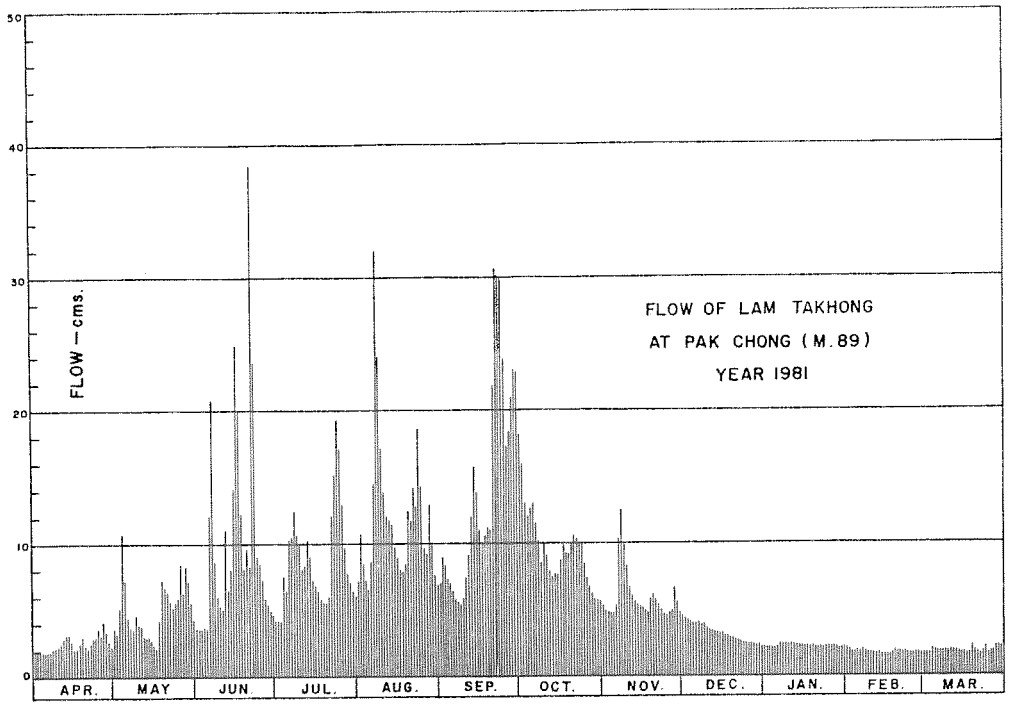
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.18	1.31	1.31	1.34	1.52	1.52	2.01	1.42	1.36	1.20	1.19	1.16	
2	1.18	1.27	1.31	1.35	1.73	1.63	1.98	1.39	1.35	1.19	1.17	1.15	
3	1.18	1.45	1.31	1.35	1.57	1.58	1.83	1.38	1.35	1.19	1.17	1.16	
4	1.17	1.78	1.33	1.56	1.51	1.52	1.79	1.38	1.33	1.19	1.17	1.19	
5	1.17	1.37	1.32	1.48	1.49	1.51	1.83	1.38	1.33	1.19	1.17	1.18	
6	1.18	1.32	1.70	1.71	1.66	1.46	1.84	1.43	1.33	1.22	1.17	1.17	
7	1.18	1.30	2.22	1.72	2.07	1.44	1.72	1.73	1.32	1.22	1.17	1.17	
8	1.21	1.30	1.62	1.81	2.71	1.43	1.65	1.82	1.32	1.22	1.17	1.17	
9	1.20	1.37	1.49	1.70	2.09	1.42	1.60	1.66	1.32	1.22	1.16	1.17	
10	1.21	1.32	1.42	1.68	1.93	1.50	1.68	1.56	1.30	1.22	1.16	1.17	
11	1.25	1.31	1.40	1.58	1.84	1.60	1.61	1.50	1.29	1.22	1.16	1.17	
12	1.27	1.27	1.74	1.59	1.79	1.67	1.56	1.46	1.29	1.21	1.16	1.17	
13	1.28	1.25	1.49	1.70	1.78	1.83	1.55	1.44	1.28	1.21	1.16	1.17	
14	1.28	1.26	1.52	1.57	1.76	1.98	1.57	1.42	1.28	1.21	1.16	1.16	
15	1.24	1.23	1.89	1.52	1.67	1.80	1.56	1.40	1.27	1.21	1.15	1.16	
16	1.20	1.21	2.40	1.51	1.62	1.73	1.63	1.40	1.27	1.20	1.15	1.15	
17	1.20	1.21	2.04	1.48	1.58	1.69	1.68	1.40	1.26	1.20	1.15	1.15	
18	1.24	1.35	1.71	1.44	1.57	1.74	1.64	1.38	1.26	1.20	1.17	1.15	
19	1.26	1.54	1.58	1.43	1.60	1.81	1.64	1.47	1.25	1.20	1.17	1.21	
20	1.21	1.49	1.67	1.43	1.82	1.75	1.74	1.47	1.25	1.20	1.17	1.16	
21	1.20	1.49	1.59	1.47	1.77	2.19	1.77	1.44	1.24	1.20	1.17	1.16	
22	1.24	1.44	2.98	1.83	1.90	2.66	1.71	1.42	1.23	1.20	1.17	1.15	
23	1.27	1.41	1.84	1.99	1.83	2.64	1.70	1.39	1.23	1.20	1.17	1.15	
24	1.27	1.44	1.63	2.15	2.12	2.61	1.67	1.37	1.22	1.20	1.16	1.21	
25	1.31	1.46	1.60	2.06	1.81	2.35	1.58	1.36	1.22	1.20	1.16	1.16	
26	1.26	1.60	1.51	1.74	1.66	2.06	1.54	1.38	1.22	1.20	1.16	1.17	
27	1.35	1.48	1.46	1.61	1.64	2.15	1.50	1.40	1.22	1.20	1.16	1.18	
28	1.27	1.59	1.42	1.54	1.84	2.27	1.45	1.50	1.21	1.20	1.16	1.21	
29	1.24	1.48	1.40	1.50	1.63	2.32	1.44	1.43	1.21	1.19		1.21	
30	1.26	1.39	1.38	1.49	1.56	2.31	1.44	1.39	1.20	1.19		1.19	
31		1.35		1.45	1.51		1.44		1.20	1.19		1.20	
MEAN	1.23	1.39	1.64	1.61	1.76	1.87	1.66	1.45	1.27	1.20	1.16	1.17	
MAX	1.35	1.78	2.98	2.15	2.71	2.66	2.01	1.82	1.36	1.22	1.19	1.21	2.98
MIN	1.17	1.21	1.31	1.34	1.49	1.42	1.44	1.36	1.20	1.19	1.15	1.15	1.15

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.18 M (A.D), AT 12.00 HOURS, ON JUN 22, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.35 M (A.D)
LEFT BANK ELEVATION 9.15 M (A.D)
RIGHT BANK ELEVATION 9.15 M (A.D), DRAINAGE AREA 699 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.96	3.75	3.75	4.20	7.06	7.06	16.41	5.42	4.50	2.20	2.08	1.72	
2	1.96	3.18	3.75	4.35	10.87	9.04	15.80	4.95	4.35	2.08	1.84	1.60	
3	1.96	5.90	3.75	4.35	7.96	8.14	12.80	4.80	4.35	2.08	1.84	1.72	
4	1.84	11.82	4.05	7.78	6.88	7.06	12.01	4.80	4.05	2.08	1.84	2.08	
5	1.84	4.65	3.90	6.38	6.54	6.88	12.80	4.80	4.05	2.08	1.84	1.96	
6	1.96	3.90	10.30	10.49	9.58	6.06	13.00	5.58	4.05	2.48	1.84	1.84	
7	1.96	3.60	20.84	10.68	17.67	5.74	10.68	10.87	3.90	2.48	1.84	1.84	
8	2.34	3.60	8.86	12.40	31.94	5.58	9.40	12.60	3.90	2.48	1.84	1.84	
9	2.20	4.65	6.54	10.30	18.09	5.42	8.50	9.58	3.90	2.48	1.72	1.84	
10	2.34	3.90	5.42	9.94	14.80	6.70	9.94	7.78	3.60	2.48	1.72	1.84	
11	2.90	3.75	5.10	8.14	13.00	8.50	8.68	6.70	3.46	2.48	1.72	1.84	
12	3.18	3.18	11.06	8.32	12.01	9.76	7.78	6.06	3.46	2.34	1.72	1.84	
13	3.32	2.90	6.54	10.30	11.82	12.80	7.60	5.74	3.32	2.34	1.72	1.84	
14	3.32	3.04	7.06	7.96	11.44	15.80	7.96	5.42	3.32	2.34	1.72	1.72	
15	2.76	2.62	14.00	7.06	9.76	12.20	7.78	5.10	3.18	2.34	1.60	1.72	
16	2.20	2.34	24.80	6.88	8.86	10.87	9.04	5.10	3.18	2.20	1.60	1.60	
17	2.20	2.34	17.04	6.38	8.14	10.12	9.94	5.10	3.04	2.20	1.60	1.60	
18	2.76	4.35	10.49	5.74	7.96	11.06	9.22	4.80	3.04	2.20	1.84	1.60	
19	3.04	7.42	8.14	5.58	8.50	12.40	9.22	6.22	2.90	2.20	1.84	2.34	
20	2.34	6.54	9.76	5.58	12.60	11.25	11.06	6.22	2.90	2.20	1.84	1.72	
21	2.20	6.54	8.32	6.22	11.63	20.19	11.63	5.74	2.76	2.20	1.84	1.72	
22	2.76	5.74	38.42	12.80	14.20	30.78	10.49	5.42	2.62	2.20	1.84	1.60	
23	3.18	5.26	13.00	16.00	12.80	30.32	10.30	4.95	2.62	2.20	1.84	1.60	
24	3.18	5.74	9.04	19.35	18.72	29.63	9.76	4.65	2.48	2.20	1.72	2.34	
25	3.75	6.06	8.50	17.46	12.40	23.70	8.14	4.50	2.48	2.20	1.72	1.72	
26	3.04	8.50	6.88	11.06	9.58	17.46	7.42	4.80	2.48	2.20	1.72	1.84	
27	4.35	6.38	6.06	8.68	9.22	19.35	6.70	5.10	2.48	2.20	1.72	1.96	
28	3.18	8.32	5.42	7.42	13.00	21.94	5.90	6.70	2.34	2.20	1.72	2.34	
29	2.76	6.38	5.10	6.70	9.04	23.04	5.74	5.58	2.34	2.08		2.34	
30	3.04	4.95	4.80	6.54	7.78	22.82	5.74	4.95	2.20	2.08		2.08	
31		4.35		5.90	6.88		5.74		2.20	2.08		2.20	
TOTAL	79.82	155.65	290.69	270.94	360.73	421.67	297.18	180.03	99.45	69.60	49.72	57.84	2333.32 CMSDAY
MEAN	2.66	5.02	9.69	8.74	11.64	14.06	9.59	6.00	3.21	2.25	1.78	1.87	6.39 CMS
MAX	4.35	11.82	38.42	19.35	31.94	30.78	16.41	12.60	4.50	2.48	2.08	2.34	38.42 CMS
MIN	1.84	2.34	3.75	4.20	6.54	5.42	5.74	4.50	2.20	2.08	1.60	1.60	1.60 CMS
RUNOFF	6.896	13.448	25.116	23.409	31.167	36.432	25.676	15.555	8.592	6.013	4.296	4.997	201.598 MCM

MOMENTARY PEAK 43.30 CMS, AT 3.18 M (A.D), AT 12.00 HOURS, ON JUN 22, 1981

RUNOFF YIELD 9.15 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 61.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 1.50 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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, 1981 TO MARCH 31, 1982

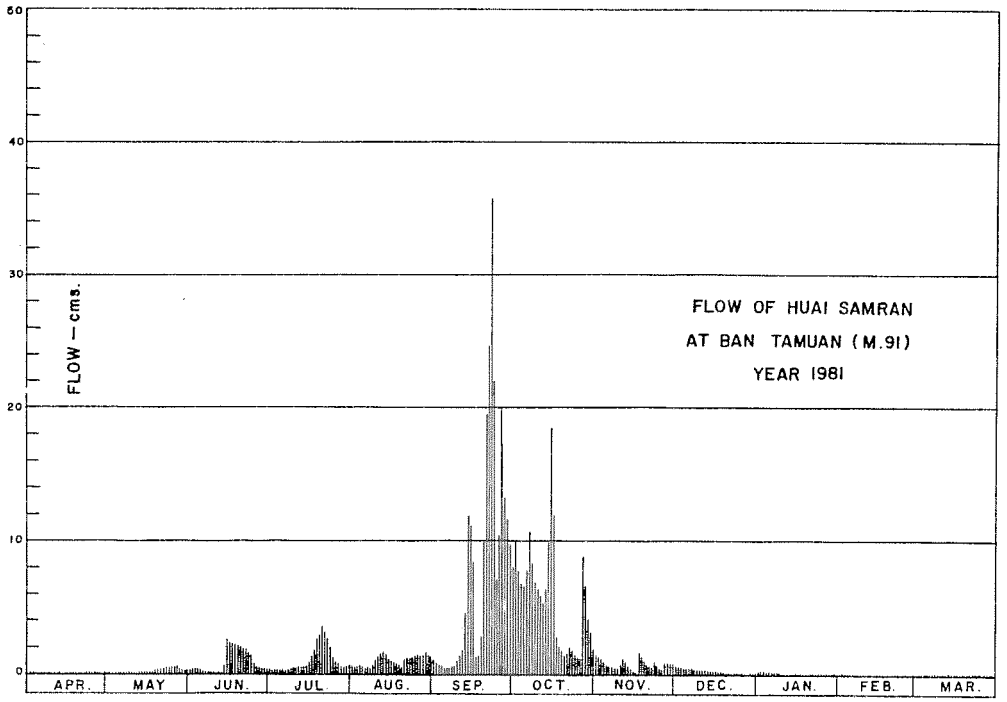
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.43	0.56	0.72	0.70	0.84	0.97	2.20	1.11	0.92	0.65	0.48	0.32	
2	0.44	0.55	0.70	0.70	0.80	0.94	2.41	1.10	0.83	0.63	0.51	0.34	
3	0.46	0.54	0.70	0.69	0.83	0.90	2.15	1.08	0.80	0.60	0.48	0.32	
4	0.46	0.53	0.69	0.66	0.87	0.84	2.07	0.97	0.79	0.58	0.48	0.32	
5	0.46	0.50	0.67	0.65	0.84	0.80	2.05	0.87	0.76	0.56	0.48	0.32	
6	0.46	0.49	0.63	0.65	0.81	0.76	2.17	0.84	0.76	0.56	0.45	0.35	
7	0.46	0.48	0.60	0.71	0.88	0.84	2.48	0.83	0.73	0.55	0.45	0.35	
8	0.45	0.48	0.57	0.72	0.83	0.81	2.16	0.81	0.73	0.54	0.45	0.35	
9	0.45	0.46	0.53	0.75	0.95	0.86	2.07	0.81	0.70	0.54	0.42	0.35	
10	0.45	0.46	0.48	0.78	1.09	1.14	2.00	0.94	0.69	0.53	0.42	0.36	
11	0.46	0.45	0.42	0.78	1.19	1.20	1.94	1.10	0.68	0.53	0.40	0.36	
12	0.45	0.44	0.38	0.79	1.25	1.45	1.89	0.99	0.68	0.53	0.40	0.36	
13	0.46	0.43	0.44	0.82	1.26	2.13	2.14	0.81	0.65	0.53	0.40	0.36	
14	0.46	0.47	0.98	0.85	1.16	2.60	2.56	0.64	0.62	0.52	0.38	0.37	
15	0.47	0.50	1.47	0.83	1.05	2.51	3.20	0.60	0.62	0.52	0.38	0.37	
16	0.48	0.55	1.41	0.99	1.00	2.08	2.42	0.56	0.62	0.52	0.38	0.40	
17	0.48	0.58	1.40	1.16	1.00	1.12	1.43	1.23	0.58	0.52	0.35	0.40	
18	0.48	0.59	1.35	1.30	0.93	1.20	1.31	1.14	0.58	0.51	0.35	0.42	
19	0.47	0.67	1.35	1.50	0.88	1.60	1.27	1.00	0.58	0.51	0.37	0.43	
20	0.49	0.76	1.33	1.53	0.81	2.49	1.14	0.87	0.58	0.50	0.37	0.46	
21	0.51	0.75	1.31	1.64	1.11	3.50	1.22	0.90	0.54	0.53	0.35	0.53	
22	0.51	0.75	1.27	1.56	1.14	4.01	1.35	0.77	0.54	0.53	0.35	0.52	
23	0.53	0.75	1.25	1.47	1.11	4.43	1.24	0.99	0.54	0.53	0.35	0.52	
24	0.50	0.78	1.18	1.26	1.13	2.34	1.15	0.85	0.53	0.52	0.35	0.51	
25	0.50	0.78	0.87	1.15	1.17	2.11	1.10	0.72	0.50	0.52	0.34	0.50	
26	0.49	0.85	0.82	1.08	1.21	3.32	1.06	0.70	0.50	0.51	0.34	0.50	
27	0.48	0.84	0.76	0.90	1.17	2.82	2.29	0.99	0.49	0.50	0.33	0.52	
28	0.50	0.74	0.75	0.86	1.20	2.71	1.82	0.96	0.48	0.50	0.32	0.52	
29	0.54	0.67	0.74	0.81	1.25	2.54	1.67	0.95	0.46	0.49		0.55	
30	0.55	0.59	0.71	0.81	1.16	2.35	1.59	0.95	0.42	0.48		0.53	
31		0.55		0.86	1.08		1.15		0.42	0.48		0.53	
MEAN	0.48	0.60	0.88	0.97	1.03	1.91	1.83	0.90	0.62	0.53	0.40	0.42	
MAX	0.55	0.85	1.47	1.64	1.26	4.43	3.20	1.23	0.92	0.65	0.51	0.55	4.43
MIN	0.43	0.43	0.38	0.65	0.80	0.76	1.06	0.56	0.42	0.48	0.32	0.32	0.32

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.60 M (A.D), AT 9.00 HOURS, ON SEP 23, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.32 M (A.D)

LEFT BANK ELEVATION — 6.93 M (A.D)

RIGHT BANK ELEVATION — 7.79 M (A.D), DRAINAGE AREA — 128 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.14	0.38	0.35	0.58	0.84	7.90	1.23	0.74	0.27	0.04	0.00	
2	0.02	0.12	0.35	0.35	0.50	0.78	10.00	1.20	0.56	0.24	0.06	0.00	
3	0.03	0.11	0.35	0.33	0.56	0.70	7.45	1.14	0.50	0.20	0.04	0.00	
4	0.03	0.09	0.33	0.29	0.64	0.58	6.76	0.84	0.48	0.17	0.04	0.00	
5	0.03	0.05	0.30	0.27	0.58	0.50	6.60	0.64	0.44	0.14	0.04	0.00	
6	0.03	0.04	0.24	0.27	0.52	0.44	7.63	0.58	0.44	0.14	0.02	0.00	
7	0.03	0.04	0.20	0.36	0.66	0.58	10.70	0.56	0.39	0.12	0.02	0.00	
8	0.02	0.04	0.15	0.38	0.56	0.52	7.54	0.52	0.39	0.11	0.02	0.00	
9	0.02	0.03	0.09	0.42	0.80	0.62	6.76	0.52	0.35	0.11	0.01	0.00	
10	0.02	0.03	0.04	0.47	1.17	1.32	6.20	0.78	0.33	0.09	0.01	0.00	
11	0.03	0.02	0.01	0.47	1.47	1.50	5.72	1.20	0.32	0.09	0.00	0.00	
12	0.02	0.02	0.00	0.48	1.70	2.55	5.33	0.88	0.32	0.09	0.00	0.00	
13	0.03	0.01	0.02	0.54	1.74	7.27	7.36	0.52	0.27	0.09	0.00	0.00	
14	0.03	0.03	0.86	0.60	1.38	11.90	11.50	0.26	0.23	0.08	0.00	0.00	
15	0.03	0.05	2.65	0.56	1.05	11.00	18.40	0.20	0.23	0.08	0.00	0.00	
16	0.04	0.12	2.35	0.88	0.90	6.84	10.10	0.14	0.23	0.08	0.00	0.00	
17	0.04	0.17	2.30	1.38	0.90	1.26	2.45	1.62	0.17	0.08	0.00	0.00	
18	0.04	0.18	2.10	1.90	0.76	1.50	1.94	1.32	0.17	0.06	0.00	0.01	
19	0.03	0.30	2.10	2.80	0.66	3.30	1.78	0.90	0.17	0.06	0.00	0.01	
20	0.04	0.44	2.02	2.95	0.52	10.80	1.32	0.64	0.17	0.05	0.00	0.03	
21	0.06	0.42	1.94	3.58	1.23	22.10	1.58	0.70	0.11	0.09	0.00	0.09	
22	0.06	0.42	1.78	3.10	1.32	29.35	2.10	0.45	0.11	0.09	0.00	0.08	
23	0.09	0.42	1.70	2.65	1.23	35.65	1.66	0.88	0.11	0.09	0.00	0.08	
24	0.05	0.47	1.44	1.74	1.29	9.30	1.35	0.60	0.09	0.08	0.00	0.06	
25	0.05	0.47	0.64	1.35	1.41	7.09	1.20	0.38	0.05	0.08	0.00	0.05	
26	0.04	0.60	0.54	1.14	1.54	19.84	1.08	0.35	0.05	0.06	0.00	0.05	
27	0.04	0.58	0.44	0.70	1.41	14.22	8.80	0.88	0.04	0.05	0.00	0.08	
28	0.05	0.41	0.42	0.62	1.50	13.01	4.84	0.82	0.04	0.05	0.00	0.08	
29	0.11	0.30	0.41	0.52	1.70	11.30	3.79	0.80	0.03	0.04		0.12	
30	0.12	0.18	0.36	0.52	1.38	9.40	3.25	0.80	0.01	0.04		0.09	
31		0.12		0.62	1.14		1.35		0.01	0.04		0.09	
TOTAL	1.24	6.42	26.51	32.59	32.80	236.06	174.44	22.35	7.55	3.06	0.30	0.92	544.24 CMSDAY
MEAN	0.04	0.21	0.88	1.05	1.06	7.87	5.63	0.74	0.24	0.10	0.01	0.03	1.49 CMS
MAX	0.12	0.60	2.65	3.58	1.74	35.65	18.40	1.62	0.74	0.27	0.06	0.12	35.65 CMS
MIN	0.01	0.01	0.00	0.27	0.50	0.44	1.08	0.14	0.01	0.04	0.00	0.00	0.00 CMS
RUNOFF	0.107	0.555	2.290	2.816	2.834	20.396	15.072	1.931	0.652	0.264	0.026	0.079	47.022 MCM

MOMENTARY PEAK 38.20 CMS, AT 4.60 M (A.D), AT 9.00 HOURS, ON SEP 23, 1981
RUNOFF YIELD 11.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 298.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

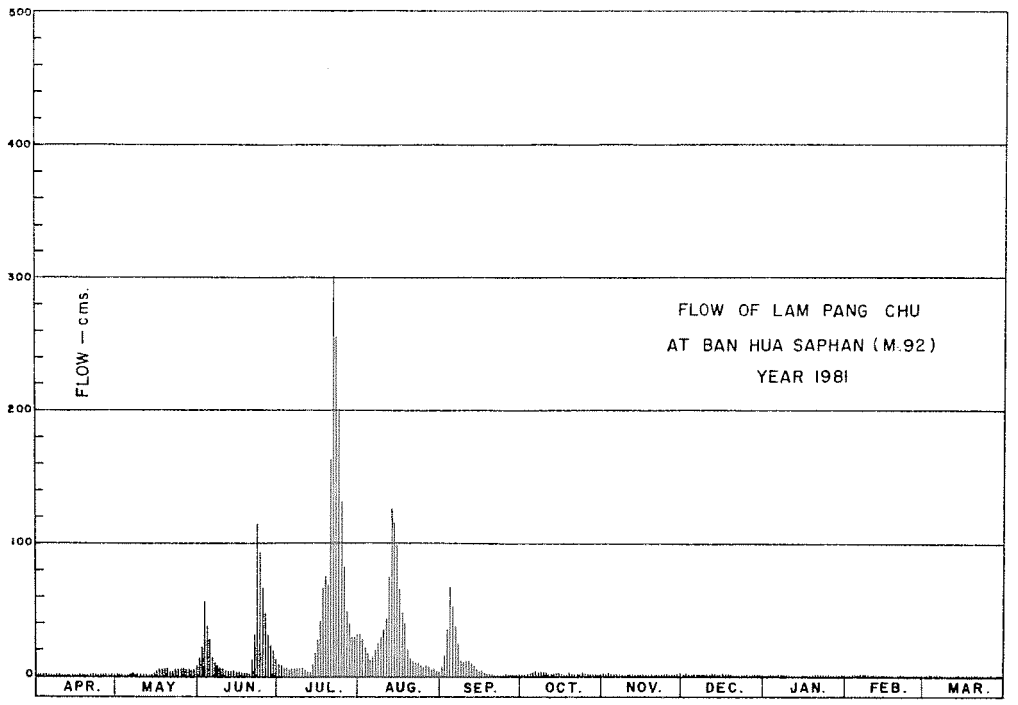
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.09	1.25	3.13	2.27	3.41	2.01	1.33	1.22	1.45	1.03	0.88	0.97	
2	1.07	1.22	3.72	2.11	3.19	2.80	1.34	1.23	1.40	1.03	0.88	0.96	
3	1.58	1.20	3.94	2.05	2.89	3.63	1.35	1.23	1.35	1.03	0.87	0.98	
4	1.55	1.20	3.68	1.95	2.62	4.08	1.36	1.23	1.32	1.02	0.87	0.98	
5	1.45	1.19	3.03	1.92	2.48	3.94	1.54	1.23	1.29	1.01	0.87	0.97	
6	1.40	1.19	2.43	1.89	2.59	3.54	1.71	1.23	1.27	1.01	0.87	0.97	
7	1.37	1.19	2.18	1.90	2.97	2.88	1.79	1.23	1.24	1.01	0.88	0.96	
8	1.34	1.21	2.03	1.93	3.20	2.38	1.72	1.23	1.22	1.00	0.93	0.96	
9	1.31	1.20	1.88	1.95	3.35	2.34	1.70	1.22	1.21	0.99	0.93	0.95	
10	1.29	1.19	1.80	1.94	3.50	2.41	1.57	1.21	1.20	0.99	0.93	0.94	
11	1.25	1.23	1.75	1.77	3.75	2.34	1.47	1.20	1.18	0.98	0.93	0.93	
12	1.23	1.23	1.70	1.66	4.32	2.24	1.41	1.20	1.17	0.98	0.92	0.93	
13	1.21	1.24	1.68	1.67	4.57	2.13	1.37	1.19	1.16	0.97	1.01	0.92	
14	1.52	1.24	1.63	2.18	4.50	2.04	1.34	1.19	1.15	0.97	1.13	0.91	
15	1.52	1.55	1.56	2.90	4.31	1.74	1.31	1.19	1.14	0.97	1.13	0.91	
16	1.42	1.84	1.47	3.36	4.07	1.56	1.34	1.19	1.13	0.96	1.10	0.92	
17	1.37	1.97	1.40	3.80	3.74	1.47	1.42	1.18	1.12	0.96	1.08	0.92	
18	1.32	2.01	1.36	4.17	3.26	1.43	1.61	1.17	1.11	0.95	1.06	0.91	
19	1.28	1.98	1.36	4.19	2.78	1.40	1.58	1.16	1.11	0.94	1.05	0.91	
20	1.26	1.89	1.58	4.11	2.46	1.42	1.55	1.17	1.10	0.94	1.04	0.91	
21	1.44	1.84	2.63	4.82	2.32	1.38	1.49	1.19	1.09	0.94	1.02	0.89	
22	1.41	1.86	3.59	5.12	2.24	1.38	1.44	1.19	1.08	0.93	1.01	0.89	
23	1.35	1.93	4.51	4.94	2.17	1.37	1.41	1.19	1.08	0.93	1.00	0.88	
24	1.30	1.91	4.35	4.73	2.12	1.35	1.38	1.18	1.07	0.93	1.00	0.87	
25	1.26	1.88	4.01	4.50	2.10	1.32	1.35	1.17	1.06	0.92	1.00	0.87	
26	1.24	1.87	3.64	4.18	2.08	1.29	1.32	1.17	1.06	0.91	0.99	0.91	
27	1.21	1.85	3.35	3.85	2.05	1.29	1.29	1.16	1.05	0.91	0.98	0.91	
28	1.18	1.84	3.07	3.50	1.97	1.28	1.26	1.15	1.05	0.90	0.97	0.91	
29	1.18	1.81	2.86	3.28	1.89	1.29	1.24	1.30	1.05	0.90		0.90	
30	1.29	1.80	2.54	3.26	1.84	1.27	1.23	1.47	1.04	0.89		0.90	
31		2.21		3.38	1.73		1.21		1.04	0.89		0.90	
MEAN	1.32	1.58	2.60	3.07	2.92	2.03	1.43	1.21	1.16	0.96	0.98	0.92	
MAX	1.58	2.21	4.51	5.12	4.57	4.08	1.79	1.47	1.45	1.03	1.13	0.98	5.12
MIN	1.07	1.19	1.36	1.66	1.73	1.27	1.21	1.15	1.04	0.89	0.87	0.87	0.87

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.14 M (A.D), AT 7.00 HOURS, ON JUL 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED 4.17 M (A.D)

LEFT BANK ELEVATION — 5.20 M (A.D)

RIGHT BANK ELEVATION — 6.05 M (A.D), DRAINAGE AREA 1094 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.38	25.75	9.55	32.75	6.10	0.65	0.30	1.25	0.00	0.00	0.00	
2	0.00	0.30	43.50	7.15	27.25	19.00	0.70	0.32	1.00	0.00	0.00	0.00	
3	1.90	0.25	56.30	6.50	20.80	39.70	0.75	0.32	0.75	0.00	0.00	0.00	
4	1.75	0.25	41.70	5.50	15.40	66.50	0.80	0.32	0.60	0.00	0.00	0.00	
5	1.25	0.22	23.60	5.20	12.70	56.30	1.70	0.32	0.47	0.00	0.00	0.00	
6	1.00	0.22	11.95	4.90	14.80	36.40	3.10	0.32	0.43	0.00	0.00	0.00	
7	0.85	0.22	8.20	5.00	22.40	20.60	3.90	0.32	0.35	0.00	0.00	0.00	
8	0.70	0.27	6.30	5.30	27.50	11.20	3.20	0.32	0.30	0.00	0.00	0.00	
9	0.55	0.25	4.80	5.50	31.25	10.60	3.00	0.30	0.27	0.00	0.00	0.00	
10	0.47	0.22	4.00	5.40	35.00	11.65	1.85	0.27	0.25	0.00	0.00	0.00	
11	0.38	0.32	3.50	3.70	45.00	10.60	1.35	0.25	0.20	0.00	0.00	0.00	
12	0.32	0.32	3.00	2.60	89.40	9.10	1.05	0.25	0.17	0.00	0.00	0.00	
13	0.27	0.35	2.80	2.70	124.20	7.45	0.85	0.22	0.15	0.00	0.00	0.00	
14	1.60	0.35	2.30	8.20	113.00	6.40	0.70	0.22	0.12	0.00	0.07	0.00	
15	1.60	1.75	1.80	21.00	88.20	3.40	0.55	0.22	0.10	0.00	0.07	0.00	
16	1.10	4.40	1.35	31.50	65.75	1.80	0.70	0.22	0.07	0.00	0.00	0.00	
17	0.85	5.70	1.00	47.50	44.50	1.35	1.10	0.20	0.05	0.00	0.00	0.00	
18	0.60	6.10	0.80	74.30	29.00	1.15	2.10	0.17	0.02	0.00	0.00	0.00	
19	0.45	5.80	0.80	76.10	18.60	1.00	1.90	0.15	0.02	0.00	0.00	0.00	
20	0.40	4.90	1.90	68.90	12.40	1.10	1.75	0.17	0.00	0.00	0.00	0.00	
21	1.20	4.40	15.60	180.20	10.30	0.90	1.45	0.22	0.00	0.00	0.00	0.00	
22	1.05	4.60	38.15	301.60	9.10	0.90	1.20	0.22	0.00	0.00	0.00	0.00	
23	0.75	5.30	114.60	221.00	8.05	0.85	1.05	0.22	0.00	0.00	0.00	0.00	
24	0.50	5.10	93.00	155.80	7.30	0.75	0.90	0.20	0.00	0.00	0.00	0.00	
25	0.40	4.80	61.25	113.00	7.00	0.60	0.75	0.17	0.00	0.00	0.00	0.00	
26	0.35	4.70	40.10	75.20	6.80	0.47	0.60	0.17	0.00	0.00	0.00	0.00	
27	0.27	4.50	31.25	50.50	6.50	0.47	0.47	0.15	0.00	0.00	0.00	0.00	
28	0.20	4.40	24.40	35.00	5.70	0.45	0.40	0.12	0.00	0.00	0.00	0.00	
29	0.20	4.10	20.20	29.50	4.90	0.47	0.35	0.50	0.00	0.00		0.00	
30	0.47	4.00	13.80	29.00	4.40	0.43	0.32	1.35	0.00	0.00		0.00	
31		8.65		32.00	3.30		0.27		0.00	0.00		0.00	
TOTAL	21.43	87.12	697.70	1619.30	943.25	327.69	39.46	8.50	6.57	0.00	0.14	0.00	3751.16 CMSDAY
MEAN	0.71	2.81	23.26	52.24	30.43	10.92	1.27	0.28	0.21	0.00	0.00	0.00	10.28 CMS
MAX	1.90	8.65	114.60	301.60	124.20	66.50	3.90	1.35	1.25	0.00	0.07	0.00	301.60 CMS
MIN	0.00	0.22	0.80	2.60	3.30	0.43	0.27	0.12	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	1.852	7.527	60.281	139.907	81.497	28.312	3.409	0.734	0.568	0.000	0.012	0.000	324.100 MCM

MOMENTARY PEAK 311.20 CMS, AT 5.14 M (A.D), AT 7.00 HOURS, ON JUL 22, 1981
RUNOFF YIELD 9.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 284.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

HUAI SEO AT BAN PAN RO, BURI RAM (M.93)

LOCATION — LAT. 14°-28'-34" N., LONG. 103°-06'-20" E., ON RIGHT BANK ABOUT 100 METERS FROM PRAKONCHAI-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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

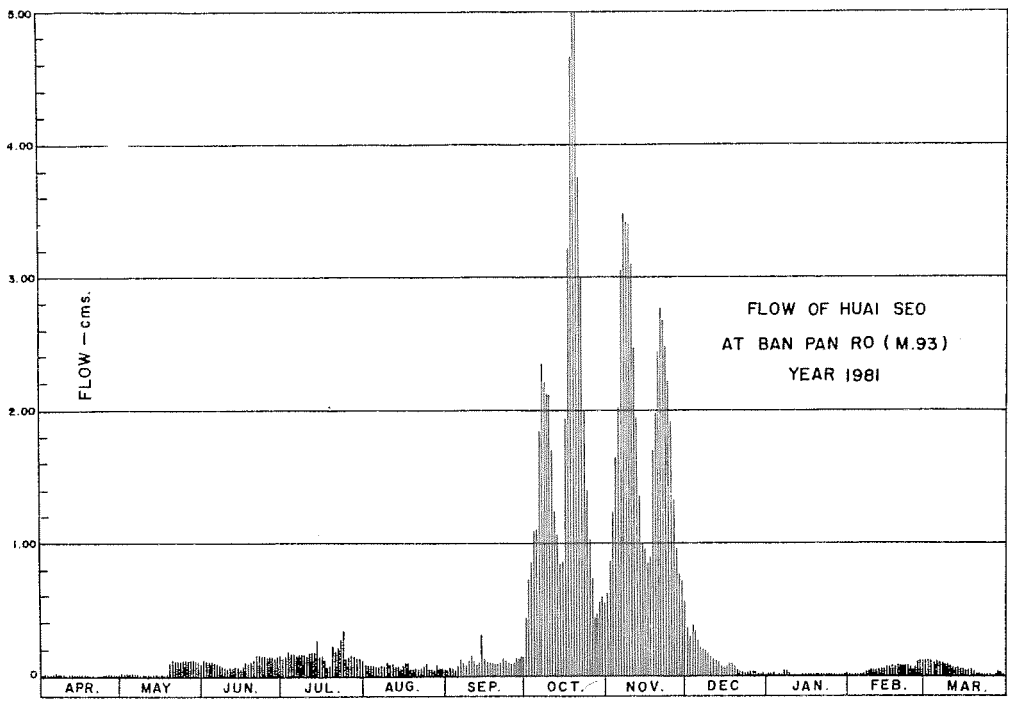
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.07	0.35	0.38	0.31	0.29	0.56	0.70	0.54	0.19	0.22	0.35	
2	0.13	0.07	0.34	0.41	0.32	0.31	0.78	0.88	0.52	0.24	0.20	0.35	
3	0.14	0.06	0.34	0.44	0.32	0.27	0.80	0.97	0.56	0.21	0.22	0.34	
4	0.15	0.11	0.33	0.40	0.31	0.25	0.90	1.11	0.55	0.18	0.23	0.34	
5	0.14	0.10	0.33	0.39	0.31	0.31	0.90	1.24	0.51	0.13	0.23	0.34	
6	0.13	0.07	0.32	0.39	0.30	0.36	1.12	1.46	0.44	0.14	0.23	0.33	
7	0.12	0.07	0.31	0.39	0.32	0.32	1.30	1.58	0.42	0.28	0.24	0.33	
8	0.12	0.08	0.30	0.39	0.31	0.31	1.25	1.56	0.42	0.25	0.26	0.32	
9	0.12	0.06	0.30	0.39	0.33	0.34	1.24	1.56	0.39	0.22	0.27	0.31	
10	0.10	0.06	0.30	0.39	0.32	0.38	1.20	1.45	0.37	0.19	0.28	0.31	
11	0.06	0.10	0.29	0.39	0.32	0.36	1.09	1.28	0.35	0.12	0.29	0.30	
12	0.06	0.12	0.29	0.41	0.30	0.32	0.95	1.11	0.35	0.15	0.29	0.29	
13	0.05	0.09	0.30	0.42	0.31	0.33	0.86	0.94	0.32	0.18	0.30	0.29	
14	0.05	0.10	0.29	0.50	0.31	0.54	0.78	0.86	0.31	0.16	0.30	0.28	
15	0.06	0.10	0.29	0.37	0.28	0.36	0.81	0.82	0.29	0.19	0.30	0.27	
16	0.05	0.09	0.32	0.40	0.34	0.34	1.09	0.79	0.32	0.17	0.31	0.25	
17	0.04	0.14	0.34	0.35	0.33	0.34	1.34	0.82	0.34	0.17	0.31	0.26	
18	0.05	0.19	0.33	0.30	0.26	0.33	1.72	1.13	0.33	0.16	0.31	0.25	
19	0.05	0.34	0.34	0.32	0.29	0.33	2.03	1.21	0.28	0.16	0.32	0.25	
20	0.05	0.36	0.34	0.46	0.28	0.33	1.95	1.36	0.25	0.14	0.32	0.24	
21	0.04	0.35	0.39	0.41	0.28	0.34	1.70	1.41	0.24	0.11	0.32	0.23	
22	0.05	0.34	0.38	0.46	0.28	0.38	1.40	1.38	0.23	0.12	0.31	0.22	
23	0.05	0.34	0.39	0.50	0.31	0.35	1.12	1.30	0.22	0.14	0.31	0.22	
24	0.05	0.35	0.38	0.55	0.33	0.33	1.00	1.20	0.23	0.13	0.30	0.22	
25	0.10	0.36	0.38	0.37	0.27	0.33	0.88	1.10	0.23	0.12	0.29	0.21	
26	0.09	0.35	0.38	0.37	0.27	0.33	0.73	0.97	0.26	0.13	0.35	0.19	
27	0.08	0.35	0.37	0.39	0.25	0.39	0.65	0.81	0.24	0.13	0.35	0.21	
28	0.07	0.35	0.36	0.37	0.33	0.37	0.60	0.75	0.21	0.10	0.35	0.23	
29	0.06	0.34	0.40	0.36	0.27	0.39	0.68	0.72	0.18	0.10		0.22	
30	0.08	0.34	0.40	0.36	0.27	0.38	0.68	0.66	0.25	0.10		0.21	
31		0.33		0.35	0.28		0.65		0.20	0.15		0.20	
MEAN	0.08	0.20	0.34	0.40	0.30	0.34	1.06	1.10	0.33	0.16	0.29	0.27	
MAX	0.15	0.36	0.40	0.55	0.34	0.54	2.03	1.58	0.56	0.28	0.35	0.35	2.03
MIN	0.04	0.06	0.29	0.30	0.25	0.25	0.56	0.66	0.18	0.10	0.20	0.19	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.05 M (A.D), AT 12.00 HOURS, ON OCT 19, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.29 M (A.D)

LEFT BANK ELEVATION — 3.36 M (A.D)

RIGHT BANK ELEVATION — 3.87 M (A.D), DRAINAGE AREA 329 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.11	0.14	0.07	0.05	0.36	0.64	0.32	0.00	0.01	0.11	
2	0.00	0.00	0.10	0.17	0.08	0.07	0.82	1.05	0.28	0.02	0.00	0.11	
3	0.00	0.00	0.10	0.20	0.08	0.04	0.86	1.29	0.36	0.01	0.01	0.10	
4	0.00	0.00	0.09	0.16	0.07	0.03	1.10	1.70	0.34	0.00	0.02	0.10	
5	0.00	0.00	0.09	0.15	0.07	0.07	1.10	2.14	0.27	0.00	0.02	0.10	
6	0.00	0.00	0.08	0.15	0.06	0.12	1.74	2.98	0.20	0.00	0.02	0.09	
7	0.00	0.00	0.07	0.15	0.08	0.08	2.36	3.48	0.18	0.05	0.02	0.09	
8	0.00	0.00	0.06	0.15	0.07	0.07	2.18	3.39	0.18	0.03	0.04	0.08	
9	0.00	0.00	0.06	0.15	0.09	0.10	2.14	3.39	0.15	0.01	0.04	0.07	
10	0.00	0.00	0.06	0.15	0.08	0.14	2.00	2.94	0.13	0.00	0.05	0.07	
11	0.00	0.00	0.05	0.15	0.08	0.12	1.64	2.29	0.11	0.00	0.05	0.06	
12	0.00	0.00	0.05	0.17	0.06	0.08	1.23	1.70	0.11	0.00	0.05	0.05	
13	0.00	0.00	0.06	0.18	0.07	0.09	1.00	1.21	0.08	0.00	0.06	0.05	
14	0.00	0.00	0.05	0.26	0.07	0.32	0.82	1.00	0.07	0.00	0.06	0.05	
15	0.00	0.00	0.05	0.13	0.05	0.12	0.88	0.91	0.05	0.00	0.06	0.04	
16	0.00	0.00	0.08	0.16	0.10	0.10	1.64	0.84	0.08	0.00	0.07	0.03	
17	0.00	0.00	0.10	0.11	0.09	0.10	2.51	0.91	0.10	0.00	0.07	0.04	
18	0.00	0.00	0.09	0.06	0.04	0.09	4.07	1.77	0.09	0.00	0.07	0.03	
19	0.00	0.10	0.10	0.08	0.05	0.09	5.47	2.04	0.05	0.00	0.08	0.03	
20	0.00	0.12	0.10	0.22	0.05	0.09	5.10	2.59	0.03	0.00	0.08	0.02	
21	0.00	0.11	0.15	0.17	0.05	0.10	3.98	2.78	0.02	0.00	0.08	0.02	
22	0.00	0.10	0.14	0.22	0.05	0.14	2.74	2.66	0.02	0.00	0.07	0.01	
23	0.00	0.10	0.15	0.26	0.07	0.11	1.74	2.36	0.01	0.00	0.07	0.01	
24	0.00	0.11	0.14	0.34	0.09	0.09	1.37	2.00	0.02	0.00	0.06	0.01	
25	0.00	0.12	0.14	0.13	0.04	0.09	1.05	1.67	0.02	0.00	0.05	0.01	
26	0.00	0.11	0.14	0.13	0.04	0.09	0.71	1.29	0.04	0.00	0.11	0.00	
27	0.00	0.11	0.13	0.15	0.03	0.15	0.54	0.88	0.02	0.00	0.11	0.01	
28	0.00	0.11	0.12	0.13	0.09	0.13	0.44	0.75	0.01	0.00	0.11	0.02	
29	0.00	0.10	0.16	0.12	0.04	0.15	0.60	0.68	0.00	0.00		0.01	
30	0.00	0.10	0.16	0.12	0.04	0.14	0.60	0.56	0.03	0.00		0.01	
31		0.09		0.11	0.05		0.54		0.00	0.00		0.00	
TOTAL	0.00	1.38	2.98	4.97	2.00	3.16	53.33	53.89	3.37	0.12	1.54	1.43	128.17 CMSDAY
MEAN	0.00	0.04	0.10	0.16	0.06	0.11	1.72	1.80	0.11	0.00	0.05	0.05	0.35 CMS
MAX	0.00	0.12	0.16	0.34	0.10	0.32	5.47	3.48	0.36	0.05	0.11	0.11	5.47 CMS
MIN	0.00	0.00	0.05	0.06	0.03	0.03	0.36	0.56	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.119	0.257	0.429	0.173	0.273	4.608	4.656	0.291	0.010	0.133	0.124	11.074 MCM

MOMENTARY PEAK 5.56 CMS, AT 2.05 M (A.D), AT 12.00 HOURS, ON OCT 19, 1981

RUNOFF YIELD 1.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 16.91 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 KILOMETER MARKER 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 AT — +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 — 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

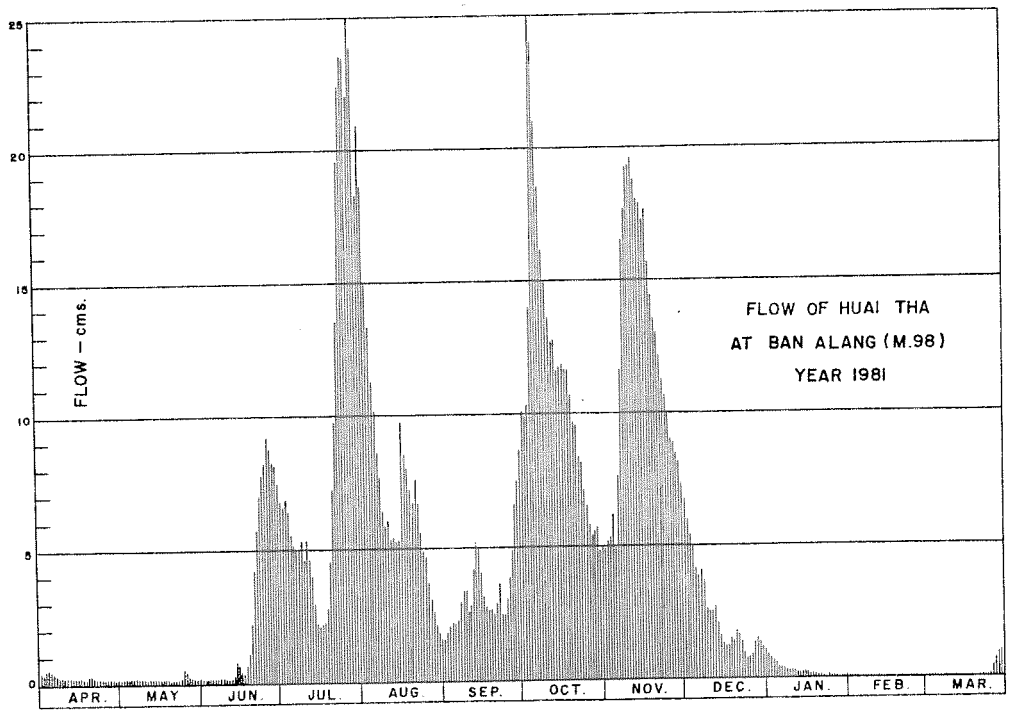
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.28	0.26	1.33	2.58	0.62	1.69	1.13	1.32	0.45	0.18	0.15	
2	0.34	0.28	0.25	1.33	2.31	0.70	1.66	1.18	1.22	0.44	0.18	0.15	
3	0.37	0.28	0.25	1.36	2.06	0.72	1.74	1.20	1.19	0.41	0.18	0.15	
4	0.38	0.28	0.26	1.31	1.95	0.75	2.21	1.29	1.12	0.38	0.18	0.15	
5	0.38	0.28	0.26	1.22	1.80	0.74	2.94	1.13	1.00	0.34	0.18	0.15	
6	0.33	0.28	0.26	1.17	1.69	0.82	2.79	1.31	1.01	0.33	0.19	0.15	
7	0.32	0.28	0.28	1.17	1.51	0.89	2.53	1.87	1.03	0.33	0.18	0.15	
8	0.32	0.28	0.28	1.17	1.40	0.93	2.34	2.25	0.99	0.31	0.18	0.15	
9	0.31	0.28	0.27	1.19	1.24	0.95	2.20	2.34	0.81	0.31	0.17	0.15	
10	0.31	0.28	0.26	1.09	1.25	0.81	2.10	2.46	0.81	0.30	0.17	0.15	
11	0.32	0.28	0.28	1.19	1.27	0.99	1.98	2.46	0.81	0.30	0.17	0.15	
12	0.32	0.27	0.28	1.08	1.18	1.15	1.92	2.48	0.84	0.30	0.17	0.15	
13	0.31	0.26	0.31	1.00	1.19	1.17	1.93	2.42	0.71	0.28	0.18	0.15	
14	0.31	0.26	0.44	0.81	1.17	1.12	1.83	2.35	0.64	0.28	0.17	0.15	
15	0.31	0.26	0.40	0.75	1.19	1.02	1.84	2.35	0.57	0.27	0.17	0.15	
16	0.31	0.27	0.33	0.74	1.66	0.86	1.85	2.30	0.55	0.27	0.17	0.15	
17	0.30	0.27	0.33	0.76	1.52	0.82	1.84	2.34	0.53	0.26	0.16	0.14	
18	0.30	0.27	0.41	0.77	1.49	0.82	1.83	2.16	0.62	0.24	0.15	0.15	
19	0.30	0.26	0.55	0.93	1.41	0.83	1.72	2.03	0.59	0.24	0.15	0.15	
20	0.37	0.25	0.80	1.25	1.34	0.80	1.64	1.97	0.68	0.24	0.15	0.15	
21	0.30	0.25	1.07	1.51	1.44	0.88	1.63	1.92	0.64	0.24	0.15	0.14	
22	0.30	0.26	1.29	1.78	1.34	0.98	1.50	1.84	0.55	0.22	0.14	0.13	
23	0.29	0.28	1.40	2.20	1.21	0.81	1.49	1.77	0.47	0.22	0.17	0.13	
24	0.30	0.31	1.47	2.59	1.12	0.82	1.39	1.72	0.42	0.22	0.15	0.14	
25	0.29	0.38	1.51	2.71	1.09	0.92	1.35	1.67	0.43	0.22	0.15	0.24	
26	0.29	0.34	1.60	2.77	0.98	1.05	1.25	1.57	0.45	0.24	0.15	0.35	
27	0.28	0.28	1.54	2.75	0.88	1.26	1.20	1.57	0.58	0.21	0.15	0.44	
28	0.28	0.26	1.49	2.65	0.84	1.39	1.23	1.51	0.60	0.20	0.15	0.48	
29	0.28	0.27	1.49	2.92	0.73	1.47	1.24	1.47	0.56	0.20		0.48	
30	0.28	0.25	1.40	2.64	0.68	1.60	1.12	1.41	0.52	0.20		0.55	
31		0.26		2.38	0.62		1.15		0.50	0.19		0.62	
MEAN	0.31	0.28	0.70	1.57	1.36	0.96	1.78	1.85	0.73	0.28	0.17	0.22	
MAX	0.38	0.38	1.60	2.92	2.58	1.60	2.94	2.48	1.32	0.45	0.19	0.62	2.94
MIN	0.28	0.25	0.25	0.74	0.62	0.62	1.12	1.13	0.42	0.19	0.14	0.13	0.13

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.03 M (A.D), AT 6.00 HOURS, ON OCT 5, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.00 M (A.D)

LEFT BANK ELEVATION — 8.61 M (A.D)

RIGHT BANK ELEVATION — 8.62 M (A.D), DRAINAGE AREA — 1092 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.16	0.12	6.57	20.92	1.50	10.10	4.84	6.48	0.80	0.00	0.00	
2	0.36	0.16	0.10	6.57	17.32	1.90	9.80	5.24	5.58	0.76	0.00	0.00	
3	0.48	0.16	0.10	6.84	14.32	2.00	10.60	5.40	5.32	0.64	0.00	0.00	
4	0.52	0.16	0.12	6.39	13.00	2.15	16.12	6.21	4.76	0.52	0.00	0.00	
5	0.52	0.16	0.12	5.58	11.20	2.10	25.96	4.84	3.80	0.36	0.00	0.00	
6	0.32	0.16	0.12	5.16	10.10	2.54	23.86	6.39	3.88	0.32	0.00	0.00	
7	0.28	0.16	0.16	5.16	8.30	3.03	20.22	12.04	4.04	0.32	0.00	0.00	
8	0.28	0.16	0.16	5.16	7.20	3.31	17.68	16.60	3.73	0.24	0.00	0.00	
9	0.24	0.16	0.14	5.32	5.76	3.45	16.00	17.68	2.47	0.24	0.00	0.00	
10	0.24	0.16	0.12	4.52	5.85	2.47	14.80	19.24	2.47	0.20	0.00	0.00	
11	0.28	0.16	0.16	5.32	6.03	3.73	13.36	19.24	2.47	0.20	0.00	0.00	
12	0.28	0.14	0.16	4.44	5.24	5.00	12.64	19.52	2.68	0.20	0.00	0.00	
13	0.24	0.12	0.24	3.80	5.32	5.16	12.76	18.68	1.95	0.16	0.00	0.00	
14	0.24	0.12	0.76	2.47	5.16	4.76	11.56	17.80	1.60	0.16	0.00	0.00	
15	0.24	0.12	0.60	2.15	5.32	3.96	11.68	17.80	1.28	0.14	0.00	0.00	
16	0.24	0.14	0.32	2.10	9.80	2.82	11.80	17.20	1.20	0.14	0.00	0.00	
17	0.20	0.14	0.32	2.20	8.40	2.54	11.68	17.68	1.12	0.12	0.00	0.00	
18	0.20	0.14	0.64	2.25	8.10	2.54	11.56	15.52	1.50	0.08	0.00	0.00	
19	0.20	0.12	1.20	3.31	7.30	2.61	10.40	13.96	1.36	0.08	0.00	0.00	
20	0.48	0.10	2.40	5.85	6.66	2.40	9.60	13.24	1.80	0.08	0.00	0.00	
21	0.20	0.10	4.36	8.30	7.60	2.96	9.50	12.64	1.60	0.08	0.00	0.00	
22	0.20	0.12	6.21	11.00	6.66	3.66	8.20	11.68	1.20	0.04	0.00	0.00	
23	0.18	0.16	7.20	16.00	5.49	2.47	8.10	10.90	0.88	0.04	0.00	0.00	
24	0.20	0.24	7.90	21.06	4.76	2.54	7.11	10.40	0.68	0.04	0.00	0.00	
25	0.18	0.52	8.30	22.74	4.52	3.24	6.75	9.90	0.72	0.04	0.00	0.08	
26	0.18	0.36	9.20	23.58	3.66	4.20	5.85	8.90	0.80	0.08	0.00	0.40	
27	0.16	0.16	8.60	23.30	2.96	5.94	5.40	8.90	1.32	0.02	0.00	0.76	
28	0.16	0.12	8.10	21.90	2.68	7.11	5.67	8.30	1.40	0.00	0.00	0.92	
29	0.16	0.14	8.10	25.68	2.05	7.90	5.76	7.90	1.24	0.00		0.92	
30	0.16	0.10	7.20	21.76	1.80	9.20	4.76	7.30	1.08	0.00		1.20	
31		0.12		18.16	1.50		5.00		1.00	0.00		1.50	
TOTAL	8.02	5.04	83.23	304.64	224.98	109.19	354.28	365.94	71.41	6.10	0.00	5.78	1538.61 CMSDAY
MEAN	0.27	0.16	2.77	9.83	7.26	3.64	11.43	12.20	2.30	0.20	0.00	0.19	4.22 CMS
MAX	0.52	0.52	9.20	25.68	20.92	9.20	25.96	19.52	6.48	0.80	0.00	1.50	25.96 CMS
MIN	0.16	0.10	0.10	2.10	1.50	1.50	4.76	4.84	0.68	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.693	0.435	7.191	26.321	19.438	9.434	30.610	31.617	6.170	0.527	0.000	0.499	132.936 MCM

MOMENTARY PEAK 27.22 CMS, AT 3.03 M (A.D), AT 6.00 HOURS, ON OCT 5, 1981
RUNOFF YIELD 3.86 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 24.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF THE BRIDGE.

ELEVATION — +3.606 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

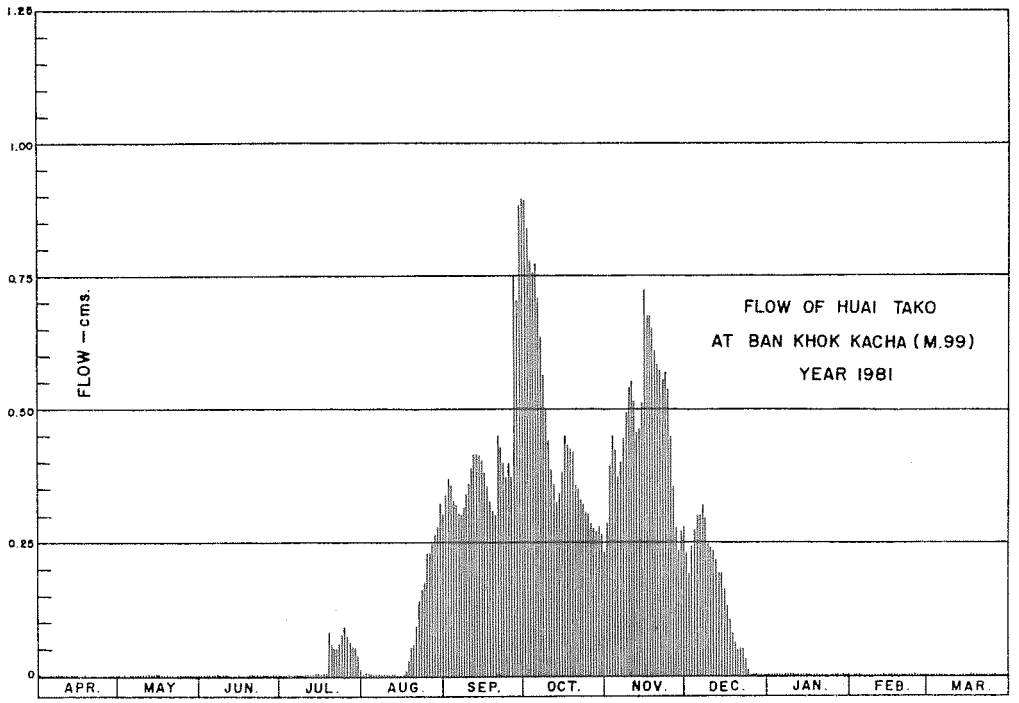
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 108 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.25	0.31	0.59	0.82	1.03	0.81	0.74	0.53	0.00	0.00	
2	0.00	0.00	0.25	0.31	0.58	0.83	1.01	0.84	0.73	0.53	0.00	0.00	
3	0.00	0.00	0.26	0.32	0.56	0.82	0.99	0.86	0.77	0.52	0.00	0.00	
4	0.00	0.00	0.25	0.47	0.54	0.81	0.98	0.85	0.79	0.51	0.00	0.00	
5	0.00	0.00	0.24	0.45	0.53	0.81	0.99	0.83	0.80	0.50	0.00	0.00	
6	0.00	0.00	0.24	0.43	0.55	0.80	0.95	0.84	0.80	0.50	0.00	0.00	
7	0.00	0.00	0.23	0.43	0.53	0.80	0.93	0.86	0.81	0.49	0.00	0.00	
8	0.00	0.00	0.23	0.43	0.54	0.81	0.89	0.88	0.78	0.48	0.00	0.00	
9	0.00	0.00	0.22	0.41	0.55	0.82	0.87	0.90	0.76	0.45	0.00	0.00	
10	0.00	0.00	0.20	0.38	0.57	0.83	0.84	0.90	0.76	0.43	0.00	0.00	
11	0.00	0.10	0.19	0.38	0.57	0.85	0.83	0.88	0.75	0.43	0.00	0.00	
12	0.00	0.11	0.18	0.36	0.58	0.85	0.82	0.86	0.74	0.42	0.00	0.00	
13	0.00	0.12	0.17	0.36	0.59	0.85	0.81	0.87	0.73	0.41	0.00	0.00	
14	0.00	0.13	0.17	0.38	0.58	0.85	0.82	0.90	0.73	0.40	0.00	0.00	
15	0.00	0.13	0.17	0.40	0.57	0.84	0.84	0.97	0.71	0.40	0.00	0.00	
16	0.00	0.14	0.16	0.42	0.58	0.83	0.86	0.95	0.69	0.38	0.00	0.00	
17	0.00	0.15	0.17	0.44	0.61	0.82	0.85	0.95	0.67	0.37	0.00	0.00	
18	0.00	0.16	0.22	0.55	0.62	0.81	0.85	0.93	0.65	0.35	0.00	0.00	
19	0.00	0.16	0.35	0.65	0.64	0.80	0.85	0.92	0.64	0.34	0.00	0.00	
20	0.00	0.18	0.37	0.63	0.64	0.80	0.82	0.91	0.63	0.32	0.00	0.00	
21	0.00	0.20	0.42	0.63	0.66	0.86	0.82	0.91	0.63	0.00	0.00	0.00	
22	0.00	0.20	0.40	0.63	0.71	0.85	0.81	0.90	0.63	0.00	0.00	0.00	
23	0.00	0.21	0.40	0.64	0.71	0.84	0.81	0.91	0.62	0.00	0.00	0.00	
24	0.00	0.22	0.38	0.66	0.72	0.83	0.80	0.89	0.61	0.00	0.00	0.00	
25	0.00	0.23	0.39	0.65	0.75	0.84	0.80	0.86	0.60	0.00	0.00	0.00	
26	0.00	0.23	0.38	0.64	0.75	0.83	0.79	0.81	0.59	0.00	0.00	0.00	
27	0.00	0.25	0.37	0.64	0.77	0.98	0.78	0.78	0.58	0.00	0.00	0.00	
28	0.00	0.26	0.35	0.63	0.78	0.96	0.78	0.75	0.57	0.00	0.00	0.00	
29	0.00	0.28	0.34	0.63	0.79	1.03	0.79	0.78	0.56	0.00		0.00	
30	0.00	0.26	0.33	0.62	0.81	1.03	0.78	0.79	0.56	0.00		0.00	
31		0.25		0.60	0.80		0.75		0.55	0.00		0.00	
MEAN	0.00	0.13	0.28	0.50	0.64	0.85	0.86	0.87	0.68	0.28	0.00	0.00	
MAX	0.00	0.28	0.42	0.66	0.81	1.03	1.03	0.97	0.81	0.53	0.00	0.00	1.03
MIN	0.00	0.00	0.16	0.31	0.53	0.80	0.75	0.75	0.55	0.00	0.00	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.03 M (A.D), AT 6.00 HOURS, ON OCT 1, 1981
ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.75 M (A.D)
LEFT BANK ELEVATION — 3.38 M (A.D)
RIGHT BANK ELEVATION — 3.35 M (A.D), DRAINAGE AREA — 88 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

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	0.35	0.89	0.32	0.21	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.37	0.83	0.40	0.19	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.35	0.77	0.45	0.25	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.32	0.75	0.42	0.28	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.32	0.77	0.37	0.30	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.30	0.67	0.40	0.30	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.30	0.62	0.45	0.32	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.32	0.52	0.50	0.27	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.35	0.47	0.55	0.24	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.37	0.40	0.55	0.24	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.42	0.37	0.50	0.23	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.42	0.35	0.45	0.21	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.42	0.32	0.47	0.19	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.42	0.35	0.55	0.19	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.40	0.40	0.72	0.16	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.37	0.45	0.67	0.13	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.01	0.35	0.42	0.67	0.11	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.03	0.32	0.42	0.62	0.08	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.08	0.06	0.30	0.42	0.60	0.06	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.05	0.06	0.30	0.35	0.57	0.05	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.05	0.09	0.45	0.35	0.57	0.05	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.05	0.16	0.42	0.32	0.55	0.05	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.06	0.16	0.40	0.32	0.57	0.03	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.09	0.18	0.37	0.30	0.52	0.01	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.08	0.23	0.40	0.30	0.45	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.06	0.23	0.37	0.28	0.32	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.06	0.25	0.75	0.27	0.27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.05	0.27	0.70	0.27	0.23	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.05	0.28	0.89	0.28	0.27	0.00	0.00		0.00	
30	0.00	0.00	0.00	0.03	0.32	0.89	0.27	0.28	0.00	0.00		0.00	
31		0.00		0.00	0.30		0.23		0.00	0.00		0.00	
TOTAL	0.00	0.00	0.00	0.71	2.63	12.71	13.73	14.26	4.15	0.00	0.00	0.00	48.19 CMSDAY
MEAN	0.00	0.00	0.00	0.02	0.08	0.42	0.44	0.48	0.13	0.00	0.00	0.00	0.13 CMS
MAX	0.00	0.00	0.00	0.09	0.32	0.89	0.89	0.72	0.32	0.00	0.00	0.00	0.89 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.30	0.23	0.23	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.061	0.227	1.098	1.186	1.232	0.359	0.000	0.000	0.000	4.164 MCM

MOMENTARY PEAK 0.89 CMS, AT 1.03 M (A.D), AT 6.00 HOURS, ON OCT 1, 1981

RUNOFF YIELD 1.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 10.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

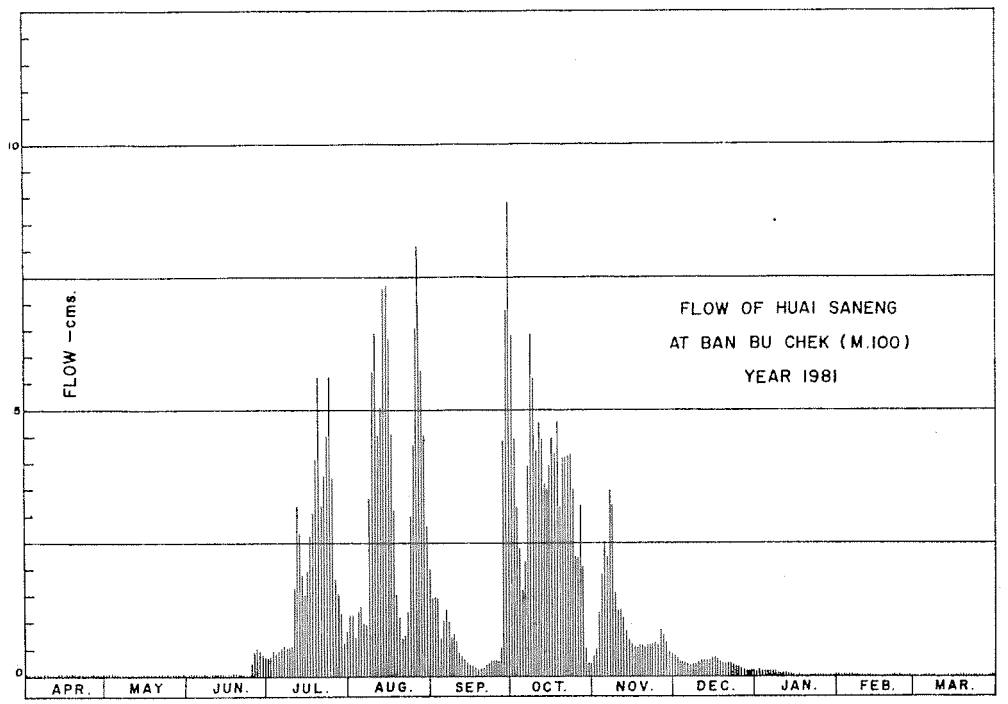
HUAI SANENG AT BAN BU CHEK, SURIN (M.100)

LOCATION	LAT. 14°-37'-01" N., LONG. 103°-28'-44" E., ON LEFT BANK AT THE BRIDGE OF CHOKCHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 145-146 AND ABOUT 3 KILOMETERS FROM AMPHOE PRASAT, TAMBON TA BAO, AMPHOE PRASAT, SURIN.
DRAINAGE AREA	131 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 19 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.36	0.37	1.09	1.35	1.38	1.51	1.18	1.13	0.85	0.62	0.47	
2	0.44	0.35	0.37	1.16	1.35	1.39	1.47	1.22	1.08	0.82	0.62	0.47	
3	0.43	0.34	0.36	1.19	1.29	1.37	1.45	1.36	1.05	0.83	0.61	0.47	
4	0.42	0.39	0.35	1.16	1.36	1.28	1.41	1.41	1.03	0.82	0.60	0.48	
5	0.41	0.38	0.35	1.19	1.37	1.34	1.40	1.43	1.00	0.81	0.60	0.47	
6	0.41	0.38	0.35	1.21	1.33	1.36	1.42	1.42	1.01	0.81	0.59	0.47	
7	0.40	0.37	0.35	1.23	1.33	1.34	1.47	1.46	1.02	0.80	0.58	0.47	
8	0.39	0.37	0.35	1.22	1.47	1.29	1.52	1.45	1.00	0.80	0.58	0.46	
9	0.38	0.36	0.34	1.23	1.51	1.31	1.51	1.39	1.00	0.78	0.57	0.45	
10	0.37	0.36	0.34	1.24	1.52	1.21	1.48	1.36	1.06	0.78	0.56	0.44	
11	0.36	0.36	0.34	1.41	1.49	1.12	1.50	1.36	1.08	0.76	0.56	0.44	
12	0.36	0.35	0.33	1.45	1.50	1.07	1.49	1.34	1.06	0.76	0.55	0.44	
13	0.36	0.34	0.33	1.42	1.53	1.03	1.46	1.30	1.05	0.75	0.54	0.42	
14	0.36	0.34	0.32	1.40	1.52	0.98	1.46	1.28	1.07	0.74	0.54	0.42	
15	0.36	0.33	0.40	1.39	1.53	0.96	1.47	1.25	1.10	0.74	0.53	0.41	
16	0.36	0.34	0.42	1.42	1.51	0.96	1.49	1.23	1.11	0.73	0.53	0.41	
17	0.35	0.34	0.42	1.44	1.45	0.93	1.48	1.23	1.10	0.72	0.52	0.40	
18	0.35	0.35	0.41	1.45	1.39	0.90	1.50	1.25	1.05	0.72	0.52	0.40	
19	0.34	0.35	0.42	1.48	1.36	0.90	1.45	1.23	1.02	0.71	0.52	0.40	
20	0.33	0.34	0.42	1.51	1.31	0.93	1.48	1.23	1.02	0.71	0.51	0.39	
21	0.33	0.34	0.42	1.45	1.29	0.99	1.48	1.25	1.01	0.70	0.50	0.38	
22	0.33	0.33	0.46	1.47	1.32	1.03	1.48	1.26	0.99	0.70	0.50	0.38	
23	0.32	0.32	0.50	1.49	1.38	1.03	1.48	1.26	0.96	0.69	0.50	0.38	
24	0.32	0.33	0.68	1.51	1.45	1.04	1.46	1.28	0.93	0.68	0.48	0.38	
25	0.34	0.33	1.16	1.47	1.51	1.06	1.42	1.24	0.91	0.67	0.48	0.37	
26	0.32	0.32	1.22	1.41	1.54	1.05	1.42	1.32	0.90	0.66	0.50	0.35	
27	0.32	0.32	1.19	1.40	1.52	1.28	1.45	1.29	0.89	0.66	0.49	0.35	
28	0.32	0.32	1.15	1.38	1.51	1.51	1.32	1.24	0.88	0.65	0.49	0.35	
29	0.33	0.31	1.13	1.33	1.47	1.53	1.01	1.18	0.87	0.64		0.35	
30	0.36	0.30	1.12	1.26	1.43	1.55	1.00	1.14	0.86	0.62		0.35	
31		0.34		1.33	1.41		1.08		0.85	0.62		0.55	
MEAN	0.36	0.34	0.55	1.35	1.43	1.17	1.42	1.29	1.00	0.73	0.54	0.42	
MAX	0.45	0.39	1.22	1.51	1.54	1.55	1.52	1.46	1.13	0.85	0.62	0.55	1.55
MIN	0.32	0.30	0.32	1.09	1.29	0.90	1.00	1.14	0.85	0.62	0.48	0.35	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.55 M (A.D), AT 18.00 HOURS, ON SEP 30, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.17 M (A.D)
LEFT BANK ELEVATION 2.59 M (A.D)
RIGHT BANK ELEVATION 2.59 M (A.D), DRAINAGE AREA 131 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.33	1.16	1.42	5.62	0.47	0.39	0.09	0.00	0.00	
2	0.00	0.00	0.00	0.44	1.16	1.51	3.84	0.54	0.32	0.07	0.00	0.00	
3	0.00	0.00	0.00	0.48	0.70	1.34	3.20	1.25	0.28	0.08	0.00	0.00	
4	0.00	0.00	0.00	0.44	1.25	0.68	1.92	1.92	0.26	0.07	0.00	0.00	
5	0.00	0.00	0.00	0.48	1.34	1.07	1.60	2.56	0.22	0.07	0.00	0.00	
6	0.00	0.00	0.00	0.52	0.98	1.25	2.24	2.24	0.23	0.07	0.00	0.00	
7	0.00	0.00	0.00	0.57	0.98	1.07	3.84	3.52	0.24	0.06	0.00	0.00	
8	0.00	0.00	0.00	0.54	3.84	0.70	6.44	3.20	0.22	0.06	0.00	0.00	
9	0.00	0.00	0.00	0.57	5.62	0.81	5.62	1.51	0.22	0.05	0.00	0.00	
10	0.00	0.00	0.00	0.59	6.44	0.52	4.16	1.25	0.29	0.05	0.00	0.00	
11	0.00	0.00	0.00	1.92	4.48	0.37	4.80	1.25	0.32	0.04	0.00	0.00	
12	0.00	0.00	0.00	3.20	4.80	0.30	4.48	1.07	0.29	0.04	0.00	0.00	
13	0.00	0.00	0.00	2.24	7.26	0.26	3.52	0.72	0.28	0.03	0.00	0.00	
14	0.00	0.00	0.00	1.60	6.44	0.20	3.52	0.68	0.30	0.02	0.00	0.00	
15	0.00	0.00	0.00	1.51	7.26	0.18	3.84	0.61	0.34	0.02	0.00	0.00	
16	0.00	0.00	0.00	2.24	5.62	0.18	4.48	0.57	0.36	0.02	0.00	0.00	
17	0.00	0.00	0.00	2.88	3.20	0.15	4.16	0.57	0.34	0.01	0.00	0.00	
18	0.00	0.00	0.00	3.20	1.51	0.12	4.80	0.61	0.28	0.01	0.00	0.00	
19	0.00	0.00	0.00	4.16	1.25	0.12	3.20	0.57	0.24	0.01	0.00	0.00	
20	0.00	0.00	0.00	5.62	0.81	0.15	4.16	0.57	0.24	0.01	0.00	0.00	
21	0.00	0.00	0.00	3.20	0.70	0.21	4.16	0.61	0.23	0.00	0.00	0.00	
22	0.00	0.00	0.00	3.84	0.90	0.26	4.16	0.63	0.21	0.00	0.00	0.00	
23	0.00	0.00	0.00	4.48	1.42	0.26	4.16	0.63	0.18	0.00	0.00	0.00	
24	0.00	0.00	0.00	5.62	3.20	0.27	3.52	0.68	0.15	0.00	0.00	0.00	
25	0.00	0.00	0.44	3.84	5.62	0.29	2.24	0.59	0.13	0.00	0.00	0.00	
26	0.00	0.00	0.54	1.92	8.08	0.28	2.24	0.90	0.12	0.00	0.00	0.00	
27	0.00	0.00	0.48	1.60	6.44	0.68	3.20	0.70	0.11	0.00	0.00	0.00	
28	0.00	0.00	0.42	1.42	5.62	5.62	0.90	0.59	0.11	0.00	0.00	0.00	
29	0.00	0.00	0.39	0.98	3.84	7.26	0.23	0.47	0.10	0.00		0.00	
30	0.00	0.00	0.37	0.63	2.56	8.90	0.22	0.40	0.10	0.00		0.00	
31		0.00		0.98	1.92		0.32		0.09	0.00		0.00	
TOTAL	0.00	0.00	2.64	62.04	106.40	36.43	104.79	31.88	7.19	0.88	0.00	0.00	352.25 CMSDAY
MEAN	0.00	0.00	0.09	2.00	3.43	1.21	3.38	1.06	0.23	0.03	0.00	0.00	0.97 CMS
MAX	0.00	0.00	0.54	5.62	8.08	8.90	6.44	3.52	0.39	0.09	0.00	0.00	8.90 CMS
MIN	0.00	0.00	0.00	0.33	0.70	0.12	0.22	0.40	0.09	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.228	5.360	9.193	3.148	9.054	2.754	0.621	0.076	0.000	0.000	30.434 MCM

MOMENTARY PEAK 8.90 CMS, AT 1.55 M (A.D), AT 18.00 HOURS, ON SEP 30, 1981

RUNOFF YIELD 7.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 67.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 BRIDGE OF CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 170-171 AND ABOUT 17 KILOMETERS FROM AMPHOE SANGKHA, BAN YAENG, TAMBON KRATHIAM, AMPHOE SANGKHA, SURIN.

DRAINAGE AREA — 390 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 14 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — NO RECORDS DURING DEC.25,1981-JAN.25,1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

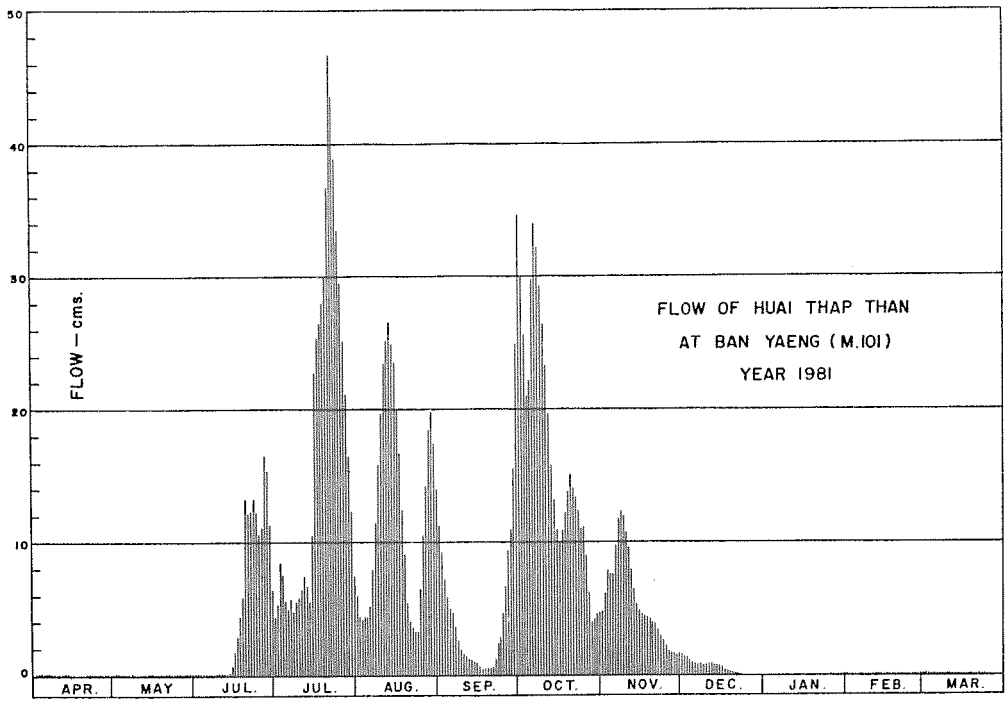
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.92	4.89	4.95	6.19	6.28	6.54	7.13	6.24	5.88	*******	3.36	3.95	
2	4.92	4.88	4.95	6.34	6.19	6.49	7.05	6.35	5.87	*******	3.38	3.96	
3	4.92	4.89	4.94	6.46	6.17	6.38	6.93	6.43	5.85	*******	3.41	3.97	
4	4.91	4.90	4.94	6.40	6.21	6.32	6.87	6.41	5.80	*******	3.43	3.98	
5	4.91	4.90	4.92	6.29	6.20	6.25	6.91	6.42	5.74	*******	3.45	3.98	
6	4.90	4.89	4.92	6.24	6.28	6.24	7.09	6.49	5.71	*******	3.48	3.99	
7	4.90	4.88	4.92	6.31	6.46	6.18	7.12	6.59	5.70	*******	3.51	3.99	
8	4.89	4.89	4.92	6.24	6.63	6.03	7.09	6.62	5.70	*******	3.52	4.00	
9	4.88	4.89	4.91	6.30	6.75	5.98	7.04	6.60	5.72	*******	3.54	4.01	
10	4.87	4.89	4.94	6.31	6.87	5.90	6.98	6.55	5.72	*******	3.56	4.00	
11	4.86	4.89	4.94	6.35	6.94	5.84	6.90	6.47	5.73	*******	3.58	3.99	
12	4.86	4.89	4.93	6.41	6.97	5.80	6.81	6.42	5.73	*******	3.59	3.97	
13	4.86	4.89	4.94	6.37	6.99	5.77	6.70	6.34	5.72	*******	3.61	3.98	
14	4.85	4.88	4.95	6.29	6.96	5.75	6.61	6.27	5.71	*******	3.62	3.99	
15	4.85	4.88	5.81	6.58	6.93	5.70	6.56	6.24	5.70	*******	3.64	4.00	
16	4.88	4.89	5.93	6.93	6.83	5.64	6.53	6.21	5.65	*******	3.65	4.02	
17	4.88	4.89	6.06	6.99	6.71	5.60	6.56	6.20	5.51	*******	3.67	4.03	
18	4.87	4.88	6.20	6.99	6.59	5.63	6.64	6.20	5.50	*******	3.68	4.04	
19	4.87	4.89	6.33	7.03	6.42	5.64	6.68	6.19	5.50	*******	3.71	4.04	
20	4.87	4.90	6.65	7.08	6.23	5.63	6.71	6.17	5.50	*******	3.74	4.04	
21	4.89	4.91	6.61	7.21	6.17	5.67	6.67	6.15	5.50	*******	3.76	4.05	
22	4.88	4.91	6.62	7.29	6.13	5.79	6.63	6.11	5.50	*******	3.78	4.05	
23	4.87	4.95	6.65	7.24	6.09	6.03	6.61	6.08	5.47	*******	3.81	4.05	
24	4.87	4.95	6.62	7.14	6.28	6.04	6.56	6.02	4.77	*******	3.83	4.05	
25	4.86	4.95	6.55	7.05	6.46	6.26	6.57	5.98	*******	*******	3.83	4.05	
26	4.86	4.95	6.57	7.00	6.61	6.40	6.41	5.94	*******	3.03	3.93	4.05	
27	4.86	4.94	6.75	6.96	6.69	6.53	6.29	5.90	*******	3.05	3.94	4.06	
28	4.87	4.94	6.72	6.82	6.81	6.59	6.16	5.91	*******	3.07	3.95	4.06	
29	4.88	4.93	6.54	6.68	6.84	6.77	6.17	5.88	*******	3.11		4.09	
30	4.89	4.92	6.35	6.62	6.79	7.11	6.23	5.91	*******	3.13		4.16	
31		4.96		6.40	6.68		6.22		*******	3.28		4.17	
MEAN	4.88	4.91	5.73	6.66	6.55	6.08	6.69	6.24	*******	*******	3.64	4.02	
MAX	4.92	4.96	6.75	7.29	6.99	7.11	7.13	6.62	5.88	3.28	3.95	4.17	7.29
MIN	4.85	4.88	4.91	6.19	6.09	5.60	6.16	5.88	*******	*******	3.36	3.95	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 7.29 M (A.D), AT 6.00 HOURS, ON JUL 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.19 M (A.D)

LEFT BANK ELEVATION — 8.63 M (A.D)

RIGHT BANK ELEVATION — 8.64 M (A.D), DRAINAGE AREA 390 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	4.30	5.44	10.44	34.64	4.92	1.52	*******	0.00	0.00	
2	0.00	0.00	0.00	6.38	4.30	9.20	29.80	6.55	1.48	*******	0.00	0.00	
3	0.00	0.00	0.00	8.60	4.10	7.06	23.64	8.00	1.40	*******	0.00	0.00	
4	0.00	0.00	0.00	7.40	4.53	6.04	21.00	7.60	1.20	*******	0.00	0.00	
5	0.00	0.00	0.00	5.57	4.40	5.05	22.68	7.80	0.96	*******	0.00	0.00	
6	0.00	0.00	0.00	4.92	5.44	4.92	32.04	9.20	0.84	*******	0.00	0.00	
7	0.00	0.00	0.00	5.87	8.60	4.20	33.96	11.74	0.80	*******	0.00	0.00	
8	0.00	0.00	0.00	4.92	12.84	2.70	32.04	12.56	0.80	*******	0.00	0.00	
9	0.00	0.00	0.00	5.70	16.50	2.24	29.24	12.00	0.88	*******	0.00	0.00	
10	0.00	0.00	0.00	5.87	21.00	1.60	26.04	10.70	0.88	*******	0.00	0.00	
11	0.00	0.00	0.00	6.58	24.12	1.36	22.20	8.80	0.92	*******	0.00	0.00	
12	0.00	0.00	0.00	7.60	25.56	1.20	18.60	7.80	0.92	*******	0.00	0.00	
13	0.00	0.00	0.00	6.89	26.52	1.08	14.80	6.38	0.88	*******	0.00	0.00	
14	0.00	0.00	0.00	5.57	25.08	1.00	12.28	5.31	0.84	*******	0.00	0.00	
15	0.00	0.00	1.24	11.48	23.64	0.80	10.96	4.92	0.80	*******	0.00	0.00	
16	0.00	0.00	1.84	23.64	19.40	0.56	10.18	4.53	0.60	*******	0.00	0.00	
17	0.00	0.00	3.00	26.52	15.14	0.40	10.96	4.40	0.22	*******	0.00	0.00	
18	0.00	0.00	4.40	26.52	11.74	0.52	13.12	4.40	0.20	*******	0.00	0.00	
19	0.00	0.00	6.21	28.68	7.80	0.56	14.24	4.30	0.20	*******	0.00	0.00	
20	0.00	0.00	13.40	31.48	4.79	0.52	15.14	4.10	0.20	*******	0.00	0.00	
21	0.00	0.00	12.28	40.22	4.10	0.68	13.96	3.90	0.20	*******	0.00	0.00	
22	0.00	0.00	12.56	46.78	3.70	1.16	12.84	3.50	0.20	*******	0.00	0.00	
23	0.00	0.00	13.40	42.68	3.30	2.70	12.28	3.20	0.14	*******	0.00	0.00	
24	0.00	0.00	12.56	35.32	5.44	2.80	10.96	2.60	0.00	*******	0.00	0.00	
25	0.00	0.00	10.70	29.80	8.60	5.18	11.22	2.24	*******	*******	0.00	0.00	
26	0.00	0.00	11.22	27.00	12.28	7.40	7.60	1.92	*******	0.00	0.00	0.00	
27	0.00	0.00	16.50	25.08	14.52	10.18	5.57	1.60	*******	0.00	0.00	0.00	
28	0.00	0.00	15.48	19.00	18.60	11.74	4.00	1.68	*******	0.00	0.00	0.00	
29	0.00	0.00	10.44	14.24	19.80	17.18	4.10	1.52	*******	0.00		0.00	
30	0.00	0.00	6.55	12.56	17.86	33.28	4.79	1.68	*******	0.00		0.00	
31		0.00		7.40	14.24		4.66		*******	0.00		0.00	
TOTAL	0.00	0.00	151.78	534.54	393.38	153.75	519.54	169.85	*******	*******	0.00	0.00	******** CMSDAY
MEAN	0.00	0.00	5.06	17.24	12.69	5.12	16.76	5.66	*******	*******	0.00	0.00	******* CMS
MAX	0.00	0.00	16.50	46.78	26.52	33.28	34.64	12.56	1.52	0.00	0.00	0.00	46.78 CMS
MIN	0.00	0.00	0.00	4.30	3.30	0.40	4.00	1.52	*******	*******	0.00	0.00	******* CMS
RUNOFF	0.000	0.000	13.114	46.184	33.988	13.284	44.888	14.675	*******	*******	0.000	0.000	******** MCM

MOMENTARY PEAK 46.78 CMS, AT 7.29 M (A.D), AT 6.00 HOURS, ON JUL 22, 1981
RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 119.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 CHOK CHAI-DET UDOM HIGHWAY NEAR KILOMETER MARKER 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M. OF HIGHWAYS DEPARTMENT.

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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

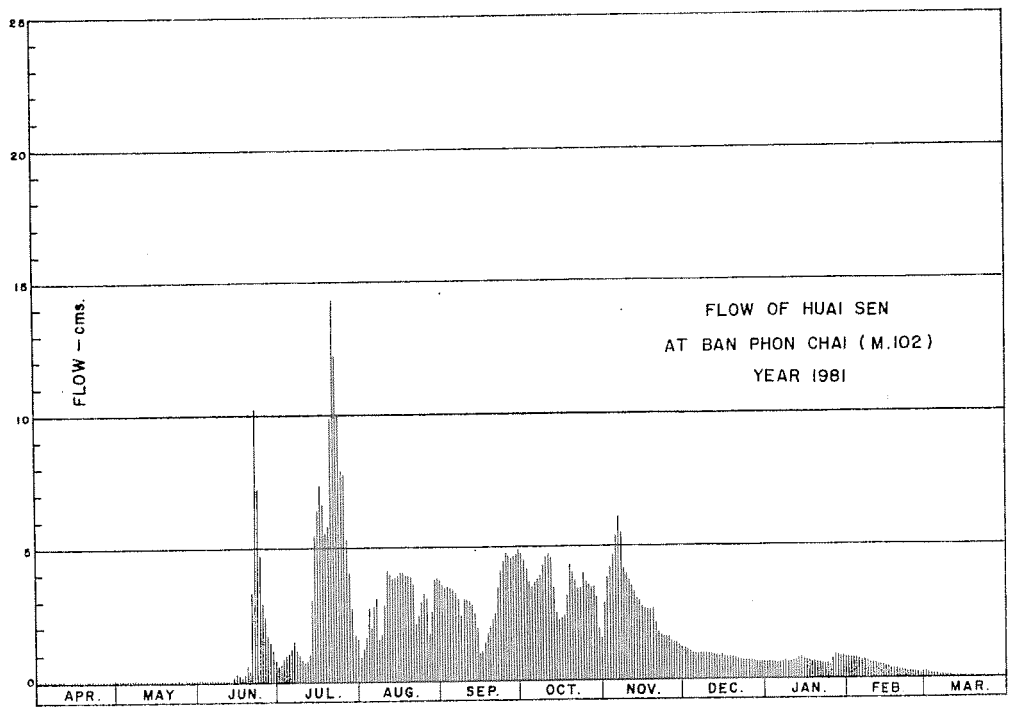
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.53	-0.51	-0.44	-0.18	0.27	0.97	1.19	0.99	0.39	0.17	-0.09	-0.30	
2	-0.53	-0.51	-0.45	-0.13	0.46	0.96	1.13	1.06	0.37	0.17	-0.09	-0.32	
3	-0.53	-0.52	-0.46	-0.04	0.57	0.94	1.04	1.13	0.35	0.16	-0.10	-0.33	
4	-0.54	-0.53	-0.47	-0.03	0.82	0.94	0.97	1.21	0.33	0.15	-0.11	-0.34	
5	-0.54	-0.54	-0.48	0.00	0.65	0.93	0.96	1.36	0.32	0.15	-0.14	-0.35	
6	-0.55	-0.55	-0.49	0.05	0.85	0.91	1.03	1.42	0.32	0.14	-0.15	-0.36	
7	-0.56	-0.55	-0.50	0.12	0.90	0.87	1.02	1.32	0.32	0.19	-0.16	-0.37	
8	-0.56	-0.56	-0.51	0.03	0.50	0.76	1.10	1.08	0.32	0.19	-0.16	-0.37	
9	-0.57	-0.57	-0.52	-0.05	0.64	0.87	1.16	1.02	0.31	0.18	-0.18	-0.38	
10	-0.58	-0.58	-0.47	-0.09	0.96	0.86	1.20	0.97	0.30	0.18	-0.19	-0.40	
11	-0.59	-0.47	-0.47	-0.14	1.10	0.84	1.19	0.97	0.30	0.19	-0.19	-0.41	
12	-0.60	-0.48	-0.47	-0.08	1.06	0.83	1.15	0.88	0.29	0.20	-0.20	-0.42	
13	-0.61	-0.49	-0.47	0.08	1.04	0.79	0.94	0.86	0.28	0.24	-0.21	-0.43	
14	-0.61	-0.49	-0.27	0.79	1.05	0.65	0.70	0.84	0.27	0.22	-0.22	-0.44	
15	-0.62	-0.49	-0.29	0.85	1.06	0.37	0.71	0.79	0.27	0.20	-0.23	-0.45	
16	-0.62	-0.49	-0.30	1.03	1.08	0.41	0.74	0.79	0.26	0.18	-0.24	-0.46	
17	-0.63	-0.48	-0.32	1.06	1.07	0.53	0.76	0.79	0.25	0.17	-0.25	-0.46	
18	-0.64	-0.46	-0.29	0.83	1.06	0.59	0.93	0.79	0.24	0.16	-0.26	-0.47	
19	-0.65	-0.45	-0.14	0.84	1.05	0.67	1.12	0.78	0.23	0.15	-0.27	-0.48	
20	-0.66	-0.45	-0.24	0.90	1.04	0.73	1.03	0.64	0.22	0.14	-0.27	-0.48	
21	-0.45	-0.46	0.67	1.51	0.96	0.79	0.97	0.58	0.21	0.13	-0.28	-0.49	
22	-0.46	-0.47	1.34	1.61	0.66	1.08	0.95	0.55	0.20	0.12	-0.28	-0.49	
23	-0.47	-0.44	1.03	1.35	0.78	1.10	0.97	0.55	0.19	0.11	-0.29	-0.48	
24	-0.48	-0.45	0.58	1.15	0.92	1.18	1.07	0.54	0.19	0.10	-0.29	-0.47	
25	-0.49	-0.45	0.42	1.12	0.92	1.20	0.98	0.52	0.18	0.08	-0.30	-0.46	
26	-0.49	-0.44	0.27	1.09	0.87	1.17	0.97	0.51	0.18	-0.07	-0.31	-0.45	
27	-0.50	-0.43	0.15	0.74	0.58	1.18	0.97	0.45	0.17	-0.08	-0.31	-0.44	
28	-0.50	-0.42	0.08	0.54	0.95	1.20	0.95	0.45	0.16	-0.08	-0.31	-0.43	
29	-0.51	-0.42	-0.02	0.27	1.04	1.20	0.87	0.43	0.15	-0.09		-0.42	
30	-0.51	-0.41	-0.07	0.15	1.01	1.21	0.62	0.41	0.14	-0.09		-0.42	
31		-0.41		0.13	1.01		0.54		0.13	-0.09		-0.41	
MEAN	-0.55	-0.48	-0.12	0.50	0.87	0.89	0.97	0.82	0.25	0.12	-0.22	-0.42	
MAX	-0.45	-0.41	1.34	1.61	1.10	1.21	1.20	1.42	0.39	0.24	-0.09	-0.30	1.61
MIN	-0.66	-0.58	-0.52	-0.18	0.27	0.37	0.54	0.41	0.13	-0.09	-0.31	-0.49	-0.66

ANNUAL MAX MOMENTARY GAGE HEIGHT — 1.65 M (A.D), AT 9.00 HOURS, ON JUL 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.42 M (A.D)

LEFT BANK ELEVATION — 3.27 M (A.D)

RIGHT BANK ELEVATION — 3.22 M (A.D), DRAINAGE AREA 207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.51	0.82	3.50	4.69	3.60	1.12	0.60	0.78	0.20	
2	0.00	0.00	0.00	0.66	1.33	3.45	4.33	3.95	1.07	0.60	0.78	0.16	
3	0.00	0.00	0.00	0.96	1.69	3.35	3.85	4.33	1.02	0.59	0.75	0.14	
4	0.00	0.00	0.00	0.99	2.75	3.35	3.50	4.81	0.97	0.57	0.72	0.12	
5	0.00	0.00	0.00	1.10	2.00	3.30	3.45	5.74	0.95	0.57	0.63	0.10	
6	0.00	0.00	0.00	1.27	2.90	3.20	3.80	6.13	0.95	0.56	0.60	0.08	
7	0.00	0.00	0.00	1.54	3.15	3.00	3.75	5.48	0.95	0.63	0.57	0.06	
8	0.00	0.00	0.00	1.20	1.45	2.47	4.15	4.05	0.95	0.63	0.57	0.06	
9	0.00	0.00	0.00	0.92	1.96	3.00	4.51	3.75	0.92	0.62	0.51	0.04	
10	0.00	0.00	0.00	0.78	3.45	2.95	4.75	3.50	0.90	0.62	0.48	0.00	
11	0.00	0.00	0.00	0.63	4.15	2.85	4.69	3.50	0.90	0.63	0.48	0.00	
12	0.00	0.00	0.00	0.82	3.95	2.80	4.45	3.05	0.87	0.65	0.45	0.00	
13	0.00	0.00	0.00	1.38	3.85	2.60	3.35	2.95	0.85	0.75	0.42	0.00	
14	0.00	0.00	0.27	5.28	3.90	2.00	2.20	2.85	0.82	0.70	0.40	0.00	
15	0.00	0.00	0.22	5.70	3.95	1.07	2.24	2.60	0.82	0.65	0.37	0.00	
16	0.00	0.00	0.20	7.05	4.05	1.18	2.38	2.60	0.80	0.62	0.35	0.00	
17	0.00	0.00	0.16	7.31	4.00	1.55	2.47	2.60	0.77	0.60	0.32	0.00	
18	0.00	0.00	0.22	5.56	3.95	1.76	3.30	2.60	0.75	0.59	0.30	0.00	
19	0.00	0.00	0.63	5.63	3.90	2.08	4.27	2.56	0.72	0.57	0.27	0.00	
20	0.00	0.00	0.35	6.05	3.85	2.33	3.80	1.96	0.70	0.56	0.27	0.00	
21	0.00	0.00	4.45	12.56	3.45	2.60	3.50	1.73	0.67	0.54	0.25	0.00	
22	0.00	0.00	10.20	14.26	2.04	4.05	3.40	1.62	0.65	0.53	0.25	0.00	
23	0.00	0.00	7.05	10.32	2.56	4.15	3.50	1.62	0.63	0.51	0.22	0.00	
24	0.00	0.00	3.88	8.12	3.25	4.63	4.00	1.59	0.63	0.50	0.22	0.00	
25	0.00	0.00	2.96	7.84	3.25	4.75	3.55	1.52	0.62	0.47	0.20	0.00	
26	0.00	0.00	2.21	7.56	3.00	4.57	3.50	1.48	0.62	0.85	0.18	0.00	
27	0.00	0.00	1.67	4.93	1.73	4.63	3.50	1.30	0.60	0.82	0.18	0.00	
28	0.00	0.00	1.38	3.64	3.40	4.75	3.40	1.30	0.59	0.82	0.18	0.00	
29	0.00	0.00	1.03	2.21	3.85	4.75	3.00	1.24	0.57	0.78		0.00	
30	0.00	0.00	0.85	1.67	3.70	4.81	1.88	1.18	0.56	0.78		0.00	
31		0.00		1.58	3.70		1.59		0.54	0.78		0.00	
TOTAL	0.00	0.00	37.73	130.03	94.98	95.48	108.75	87.19	24.48	19.69	11.70	0.96	610.99 CMSDAY
MEAN	0.00	0.00	1.26	4.19	3.06	3.18	3.51	2.91	0.79	0.64	0.42	0.03	1.67 CMS
MAX	0.00	0.00	10.20	14.26	4.15	4.81	4.75	6.13	1.12	0.85	0.78	0.20	14.26 CMS
MIN	0.00	0.00	0.00	0.51	0.82	1.07	1.59	1.18	0.54	0.47	0.18	0.00	0.00 CMS
RUNOFF	0.000	0.000	3.260	11.235	8.206	8.249	9.396	7.533	2.115	1.701	1.011	0.083	52.789 MCM

MOMENTARY PEAK 15.10 CMS, AT 1.65 M (A.D), AT 9.00 HOURS, ON JUL 22, 1981

RUNOFF YIELD 8.09 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 72.95 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +134.004 M.(M.S.L.)

BENCH MARK — B.M.

LOCATION — -

ELEVATION — +139.401 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 — 1981 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

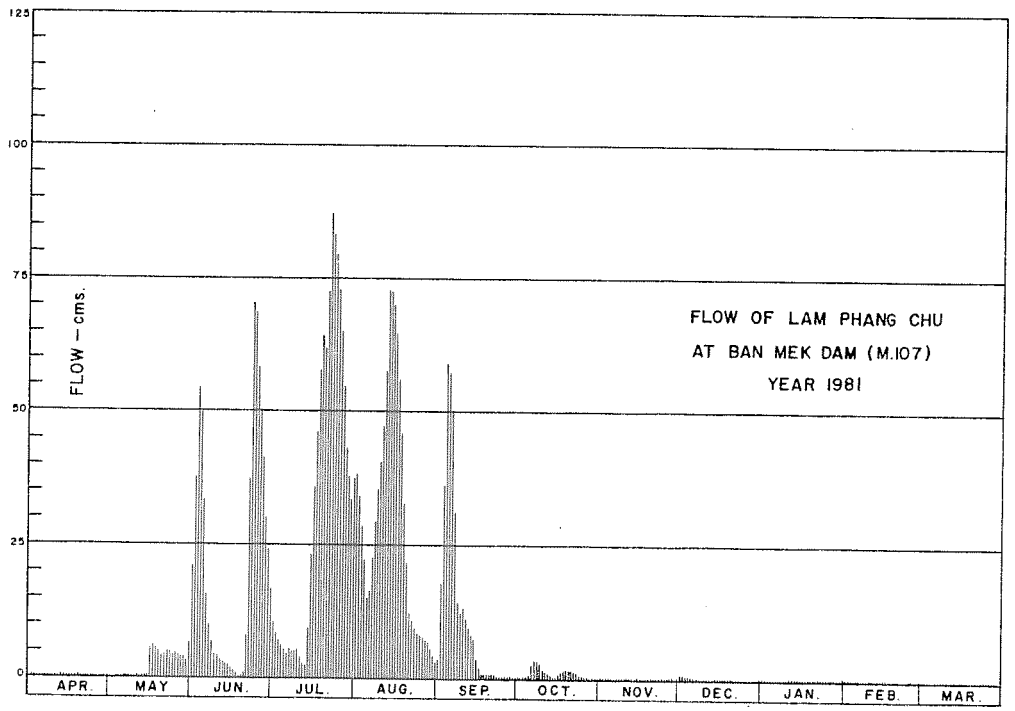
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	134.31	134.49	136.18	135.48	136.52	135.17	134.58	134.52	134.73	134.35	134.19	134.19	
2	134.31	134.50	136.72	135.33	136.34	135.90	134.58	134.53	134.70	134.34	134.19	134.19	
3	134.46	134.49	136.93	135.27	136.05	136.67	134.58	134.54	134.66	134.34	134.19	134.21	
4	134.72	134.48	136.76	135.17	135.80	137.04	134.63	134.54	134.63	134.33	134.18	134.19	
5	134.70	134.49	136.19	135.13	135.67	136.98	134.71	134.53	134.61	134.32	134.18	134.19	
6	134.68	134.50	135.64	135.09	135.75	136.65	134.91	134.53	134.58	134.32	134.18	134.18	
7	134.66	134.49	135.39	135.16	136.09	136.06	135.02	134.53	134.56	134.32	134.19	134.18	
8	134.64	134.51	135.25	135.13	136.31	135.60	134.96	134.53	134.54	134.31	134.22	134.17	
9	134.62	134.50	135.09	135.16	136.45	135.53	134.95	134.52	134.52	134.31	134.21	134.17	
10	134.59	134.50	135.02	135.15	136.58	135.59	134.85	134.52	134.50	134.30	134.21	134.16	
11	134.57	134.51	134.98	135.02	136.80	135.54	134.76	134.51	134.50	134.29	134.20	134.16	
12	134.54	134.53	134.94	134.90	137.17	135.42	134.71	134.50	134.49	134.29	134.20	134.16	
13	134.51	134.54	134.91	134.91	137.38	135.30	134.67	134.50	134.47	134.28	134.19	134.16	
14	134.58	134.56	134.87	135.44	137.36	135.25	134.64	134.50	134.46	134.28	134.19	134.15	
15	134.74	134.73	134.83	136.08	137.25	134.95	134.62	134.50	134.45	134.28	134.20	134.15	
16	134.70	135.02	134.75	136.47	137.10	134.82	134.63	134.49	134.44	134.27	134.23	134.14	
17	134.65	135.18	134.69	136.82	136.82	134.74	134.67	134.48	134.43	134.27	134.24	134.13	
18	134.61	135.18	134.63	137.10	136.42	134.71	134.83	134.47	134.43	134.26	134.25	134.13	
19	134.57	135.18	134.64	137.18	135.94	134.69	134.84	134.47	134.42	134.25	134.26	134.12	
20	134.60	135.10	134.80	137.11	135.66	134.70	134.83	134.47	134.41	134.25	134.26	134.12	
21	134.74	135.05	135.75	137.46	135.52	134.67	134.78	134.47	134.40	134.25	134.26	134.11	
22	134.71	135.05	136.59	137.68	135.43	134.65	134.74	134.47	134.40	134.25	134.25	134.10	
23	134.67	135.11	137.32	137.60	135.37	134.65	134.70	134.48	134.39	134.25	134.25	134.09	
24	134.61	135.10	137.28	137.49	135.32	134.63	134.68	134.48	134.38	134.24	134.24	134.09	
25	134.56	135.07	137.05	137.37	135.29	134.61	134.65	134.48	134.38	134.24	134.24	134.09	
26	134.55	135.05	136.74	137.18	135.27	134.58	134.63	134.47	134.37	134.23	134.23	134.14	
27	134.52	135.04	136.48	136.93	135.25	134.58	134.60	134.47	134.37	134.22	134.21	134.14	
28	134.49	135.03	136.20	136.62	135.18	134.58	134.58	134.46	134.36	134.22	134.20	134.13	
29	134.48	135.02	136.03	136.46	135.10	134.57	134.56	134.49	134.36	134.21		134.13	
30	134.48	135.00	135.75	136.38	135.06	134.56	134.53	134.55	134.36	134.21		134.13	
31		135.29		136.49	134.95		134.53		134.35	134.21		134.12	
MEAN	134.59	134.82	135.75	136.15	136.04	135.25	134.71	134.50	134.47	134.27	134.22	134.15	
MAX	134.74	135.29	137.32	137.68	137.38	137.04	135.02	134.55	134.73	134.35	134.26	134.21	137.68
MIN	134.31	134.48	134.63	134.90	134.95	134.56	134.53	134.46	134.35	134.21	134.18	134.09	134.09

ANNUAL MAX MOMENTARY GAGE HEIGHT 137.69 M (MSL), AT 12.00 HOURS, ON JUL 22, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.36	28.24	11.44	39.12	6.32	0.72	0.48	1.44	0.00	0.00	0.00	
2	0.00	0.40	46.60	8.88	33.08	20.80	0.72	0.52	1.20	0.00	0.00	0.00	
3	0.24	0.36	55.00	7.92	24.70	44.66	0.72	0.56	1.04	0.00	0.00	0.00	
4	1.36	0.32	48.20	6.32	18.40	59.40	0.92	0.56	0.92	0.00	0.00	0.00	
5	1.20	0.36	28.52	5.68	15.54	57.00	1.28	0.52	0.84	0.00	0.00	0.00	
6	1.12	0.40	14.88	5.08	17.30	43.90	3.10	0.52	0.72	0.00	0.00	0.00	
7	1.04	0.36	9.84	6.16	25.74	24.96	4.24	0.52	0.64	0.00	0.00	0.00	
8	0.96	0.44	7.60	5.68	32.12	14.00	3.60	0.52	0.56	0.00	0.00	0.00	
9	0.88	0.40	5.08	6.16	36.70	12.46	3.50	0.48	0.48	0.00	0.00	0.00	
10	0.76	0.40	4.24	6.00	41.28	13.78	2.50	0.48	0.40	0.00	0.00	0.00	
11	0.68	0.44	3.80	4.24	49.80	12.68	1.68	0.44	0.40	0.00	0.00	0.00	
12	0.56	0.52	3.40	3.00	64.74	10.36	1.28	0.40	0.36	0.00	0.00	0.00	
13	0.44	0.56	3.10	3.10	73.72	8.40	1.08	0.40	0.28	0.00	0.00	0.00	
14	0.72	0.64	2.70	10.72	72.84	7.60	0.96	0.40	0.24	0.00	0.00	0.00	
15	1.52	1.44	2.30	25.48	68.10	3.50	0.88	0.40	0.20	0.00	0.00	0.00	
16	1.20	4.24	1.60	37.38	61.80	2.20	0.92	0.36	0.16	0.00	0.00	0.00	
17	1.00	6.48	1.16	50.60	50.60	1.52	1.08	0.32	0.12	0.00	0.00	0.00	
18	0.84	6.48	0.92	61.80	35.68	1.28	2.30	0.28	0.12	0.00	0.00	0.00	
19	0.68	6.48	0.96	65.16	21.84	1.16	2.40	0.28	0.08	0.00	0.00	0.00	
20	0.80	5.20	2.00	62.22	15.32	1.20	2.30	0.28	0.04	0.00	0.00	0.00	
21	1.52	4.60	17.30	77.48	12.24	1.08	1.84	0.28	0.00	0.00	0.00	0.00	
22	1.28	4.60	41.64	88.04	10.54	1.00	1.52	0.28	0.00	0.00	0.00	0.00	
23	1.08	5.36	71.08	84.20	9.52	1.00	1.20	0.32	0.00	0.00	0.00	0.00	
24	0.84	5.20	69.36	78.92	8.72	0.92	1.12	0.32	0.00	0.00	0.00	0.00	
25	0.64	4.84	59.80	73.28	8.24	0.84	1.00	0.32	0.00	0.00	0.00	0.00	
26	0.60	4.60	47.40	65.16	7.92	0.72	0.92	0.28	0.00	0.00	0.00	0.00	
27	0.48	4.48	37.72	55.00	7.60	0.72	0.80	0.28	0.00	0.00	0.00	0.00	
28	0.36	4.36	28.80	42.76	6.48	0.72	0.72	0.24	0.00	0.00	0.00	0.00	
29	0.32	4.24	24.18	37.04	5.20	0.68	0.64	0.36	0.00	0.00		0.00	
30	0.32	4.00	17.30	34.36	4.72	0.64	0.52	0.60	0.00	0.00		0.00	
31		8.24		38.06	3.50		0.52		0.00	0.00		0.00	
TOTAL	23.44	90.80	684.72	1067.32	883.10	355.50	46.98	12.00	10.24	0.00	0.00	0.00	3174.10 CMSDAY
MEAN	0.78	2.93	22.82	34.43	28.49	11.85	1.52	0.40	0.33	0.00	0.00	0.00	8.70 CMS
MAX	1.52	8.24	71.08	88.04	73.72	59.40	4.24	0.60	1.44	0.00	0.00	0.00	88.04 CMS
MIN	0.00	0.32	0.92	3.00	3.50	0.64	0.52	0.24	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	2.025	7.845	59.160	92.216	76.300	30.715	4.059	1.037	0.885	0.000	0.000	0.000	274.242 MCM

MOMENTARY PEAK 88.52 CMS, AT 137.69 M (MSL), AT 12.00 HOURS, ON JUL 22, 1981

RUNOFF YIELD 7.83 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 79.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MUN RIVER BASIN

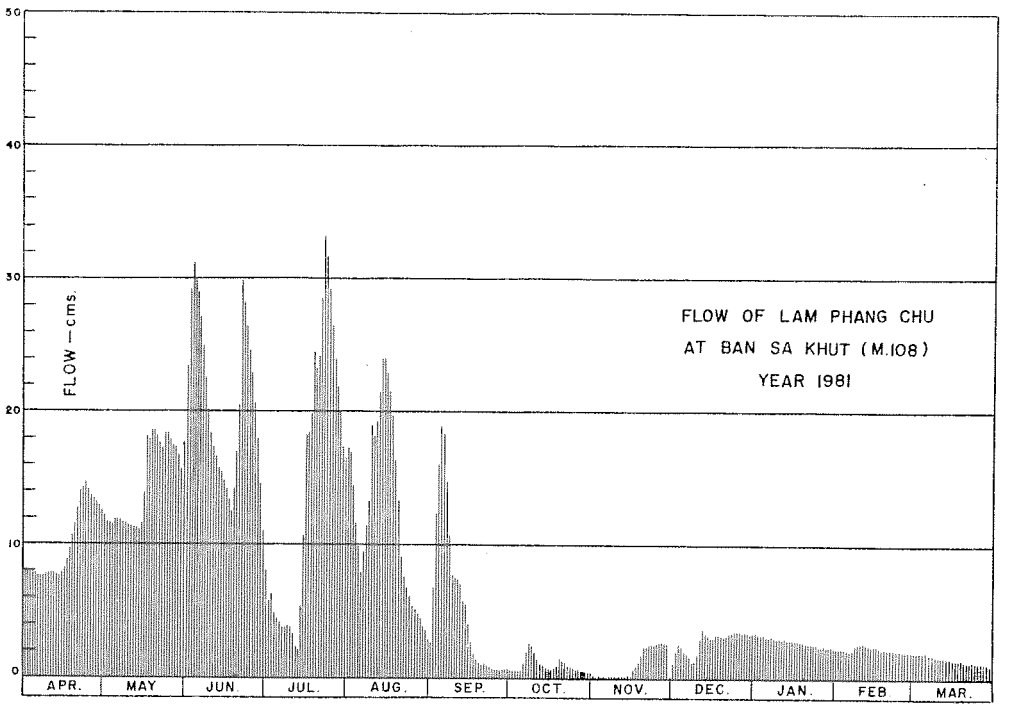
LAM PHANG CHU AT BAN SA KHUT, SURIN (M.108)

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 AT	+0.00 (A.D.)
BENCH MARK	B.M.
LOCATION	-
ELEVATION	+5.382 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	1981 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	1.36	2.07	0.94	1.73	0.35	0.00	-0.91	0.20	0.45	0.29	0.24	
2	0.98	1.30	2.53	0.78	1.70	0.88	0.00	-0.94	0.29	0.44	0.29	0.23	
3	0.97	1.30	2.63	0.81	1.45	1.42	0.00	-0.91	0.34	0.44	0.29	0.25	
4	0.97	1.30	2.67	0.66	1.24	1.74	0.00	-0.91	0.31	0.43	0.28	0.25	
5	0.96	1.34	2.60	0.57	1.11	1.86	0.00	-0.89	0.26	0.43	0.27	0.24	
6	0.95	1.33	2.47	0.56	0.99	1.80	0.13	-0.88	0.21	0.41	0.27	0.24	
7	0.95	1.32	2.31	0.51	1.16	1.52	0.30	-0.89	0.18	0.42	0.28	0.23	
8	0.95	1.31	2.10	0.51	1.37	1.11	0.34	-0.88	0.12	0.41	0.34	0.22	
9	0.95	1.30	1.97	0.54	1.49	0.95	0.30	-0.86	0.15	0.41	0.34	0.21	
10	0.96	1.29	1.80	0.53	1.86	0.94	0.25	-0.82	0.19	0.40	0.34	0.20	
11	0.96	1.28	1.73	0.49	1.80	0.93	0.14	-0.82	0.40	0.40	0.33	0.19	
12	0.96	1.27	1.66	0.32	1.92	0.86	0.08	-0.82	0.52	0.39	0.33	0.18	
13	0.95	1.27	1.62	0.29	2.11	0.75	0.03	-0.81	0.46	0.39	0.32	0.18	
14	0.95	1.27	1.61	0.89	2.21	0.72	0.03	-0.90	0.43	0.38	0.32	0.17	
15	0.98	1.32	1.56	1.39	2.19	0.53	0.00	-0.98	0.41	0.38	0.32	0.16	
16	1.02	1.33	1.49	1.81	2.10	0.34	0.00	0.05	0.41	0.37	0.31	0.15	
17	1.08	1.80	1.43	1.82	1.99	0.18	0.02	0.08	0.43	0.37	0.30	0.15	
18	1.15	1.78	1.39	1.94	1.81	0.11	0.04	0.14	0.45	0.37	0.30	0.14	
19	1.26	1.84	1.59	2.24	1.55	0.08	0.16	0.24	0.43	0.36	0.29	0.13	
20	1.31	1.83	1.86	2.15	1.28	0.10	0.13	0.31	0.42	0.35	0.29	0.13	
21	1.41	1.78	2.10	2.25	1.03	0.10	0.08	0.32	0.43	0.35	0.29	0.12	
22	1.51	1.75	2.60	2.66	0.93	0.04	0.06	0.34	0.44	0.34	0.28	0.12	
23	1.51	1.73	2.41	2.80	0.86	0.02	0.03	0.34	0.46	0.34	0.28	0.11	
24	1.54	1.81	2.27	2.67	0.75	0.00	0.01	0.35	0.48	0.34	0.27	0.10	
25	1.50	1.82	2.20	2.53	0.69	0.00	0.00	0.36	0.47	0.33	0.26	0.10	
26	1.46	1.78	2.05	2.35	0.66	0.00	-0.02	0.36	0.46	0.32	0.26	0.10	
27	1.45	1.74	1.91	2.18	0.62	0.00	-0.03	0.37	0.46	0.32	0.25	0.10	
28	1.41	1.73	1.64	1.99	0.59	0.00	-0.05	0.36	0.46	0.32	0.24	0.10	
29	1.41	1.69	1.39	1.80	0.51	0.00	-0.07	0.36	0.46	0.31		0.09	
30	1.39	1.62	1.17	1.70	0.50	0.00	-0.06	-0.90	0.45	0.31		0.08	
31		1.82		1.68	0.39		-0.09		0.45	0.30		0.08	
MEAN	1.16	1.53	1.96	1.43	1.31	0.58	0.06	-0.34	0.38	0.37	0.29	0.16	
MAX	1.54	1.84	2.67	2.80	2.21	1.86	0.34	0.37	0.52	0.45	0.34	0.25	2.80
MIN	0.95	1.27	1.17	0.29	0.39	0.00	-0.09	-0.98	0.12	0.30	0.24	0.08	-0.98

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.82 M (A.D), AT 6.00 HOURS, ON JUL 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.38 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.08	12.42	22.08	7.64	17.32	2.67	0.75	0.00	1.70	3.40	2.28	1.96	
2	8.08	11.70	28.95	5.85	16.90	7.02	0.75	0.00	2.28	3.32	2.28	1.89	
3	7.97	11.70	30.48	6.39	13.55	13.16	0.75	0.00	2.61	3.32	2.28	2.02	
4	7.97	11.70	31.12	5.08	10.98	17.46	0.75	0.00	2.41	3.24	2.22	2.02	
5	7.86	12.18	30.00	4.36	9.51	19.14	0.75	0.00	2.09	3.24	2.15	1.96	
6	7.75	12.06	28.05	4.28	8.19	18.30	1.31	0.00	1.76	3.08	2.15	1.96	
7	7.75	11.94	25.65	3.88	10.06	14.46	2.35	0.00	1.59	3.16	2.22	1.89	
8	7.75	11.82	22.50	3.88	12.54	9.51	2.61	0.00	1.26	3.08	2.61	1.83	
9	7.75	11.70	20.68	4.12	14.07	7.75	2.35	0.00	1.42	3.08	2.61	1.76	
10	7.86	11.58	18.30	4.04	19.14	7.64	2.02	0.00	1.64	3.00	2.61	1.70	
11	7.86	11.46	17.32	3.72	18.30	7.53	1.37	0.00	3.00	3.00	2.54	1.64	
12	7.86	11.34	16.34	2.48	19.98	6.84	1.07	0.00	3.96	2.93	2.54	1.59	
13	7.75	11.34	15.78	2.28	22.65	5.85	0.87	0.00	3.48	2.93	2.48	1.59	
14	7.75	11.34	15.64	7.11	24.15	5.58	0.87	0.00	3.24	2.87	2.48	1.53	
15	8.08	11.94	14.98	12.78	23.85	4.04	0.75	0.00	3.08	2.87	2.48	1.48	
16	8.52	12.06	14.07	18.44	22.50	2.61	0.75	0.95	3.08	2.80	2.41	1.42	
17	9.18	18.30	13.29	18.58	20.96	1.59	0.83	1.07	3.24	2.80	2.35	1.42	
18	9.95	18.02	12.78	20.26	18.44	1.20	0.91	1.37	3.40	2.80	2.35	1.37	
19	11.22	18.86	15.37	24.60	14.85	1.07	1.48	1.96	3.24	2.74	2.28	1.31	
20	11.82	18.72	19.14	23.25	11.46	1.15	1.31	2.41	3.16	2.67	2.28	1.31	
21	13.03	18.02	22.50	24.75	8.63	1.15	1.07	2.48	3.24	2.67	2.28	1.26	
22	14.33	17.60	30.00	30.96	7.53	0.91	0.99	2.61	3.32	2.61	2.22	1.26	
23	14.33	17.32	27.15	33.20	6.84	0.83	0.87	2.61	3.48	2.61	2.22	1.20	
24	14.72	18.44	25.05	31.12	5.85	0.75	0.79	2.67	3.64	2.61	2.15	1.15	
25	14.20	18.58	24.00	28.95	5.32	0.75	0.75	2.74	3.56	2.54	2.09	1.15	
26	13.68	18.02	21.80	26.25	5.08	0.75	0.67	2.74	3.48	2.48	2.09	1.15	
27	13.55	17.46	19.84	23.70	4.76	0.75	0.63	2.80	3.48	2.48	2.02	1.15	
28	13.03	17.32	16.06	20.96	4.52	0.75	0.55	2.74	3.48	2.48	1.96	1.15	
29	13.03	16.76	12.78	18.30	3.88	0.75	0.47	2.74	3.48	2.41		1.11	
30	12.78	15.78	10.17	16.90	3.80	0.75	0.51	0.00	3.40	2.41		1.07	
31		18.58		16.62	2.93		0.39		3.40	2.35		1.07	
TOTAL	305.49	456.06	621.87	454.73	388.54	162.71	32.29	31.89	89.60	87.98	64.63	46.37	2742.15 CMSDAY
MEAN	10.18	14.71	20.73	14.67	12.53	5.42	1.04	1.06	2.89	2.84	2.31	1.50	7.51 CMS
MAX	14.72	18.86	31.12	33.20	24.15	19.14	2.61	2.80	3.96	3.40	2.61	2.02	33.20 CMS
MIN	7.75	11.34	10.17	2.28	2.93	0.75	0.39	0.00	1.26	2.35	1.96	1.07	0.00 CMS
RUNOFF	26.394	39.404	53.729	39.289	33.570	14.058	2.790	2.755	7.741	7.601	5.584	4.006	236.922 MCM

MOMENTARY PEAK 33.52 CMS, AT 2.82 M (A.D), AT 6.00 HOURS, ON JUL 23, 1981

RUNOFF YIELD 6.50 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 29.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

TONLE SAP RIVER BASIN

HUAI PHROM HOT AT BAN DAN, PRACHIN BURI (TL.1)

LOCATION — LAT. 13°-43'-12" N., LONG. 101°-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 AT — +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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1964-1965

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +4.77 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE DURING 1964-1965.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

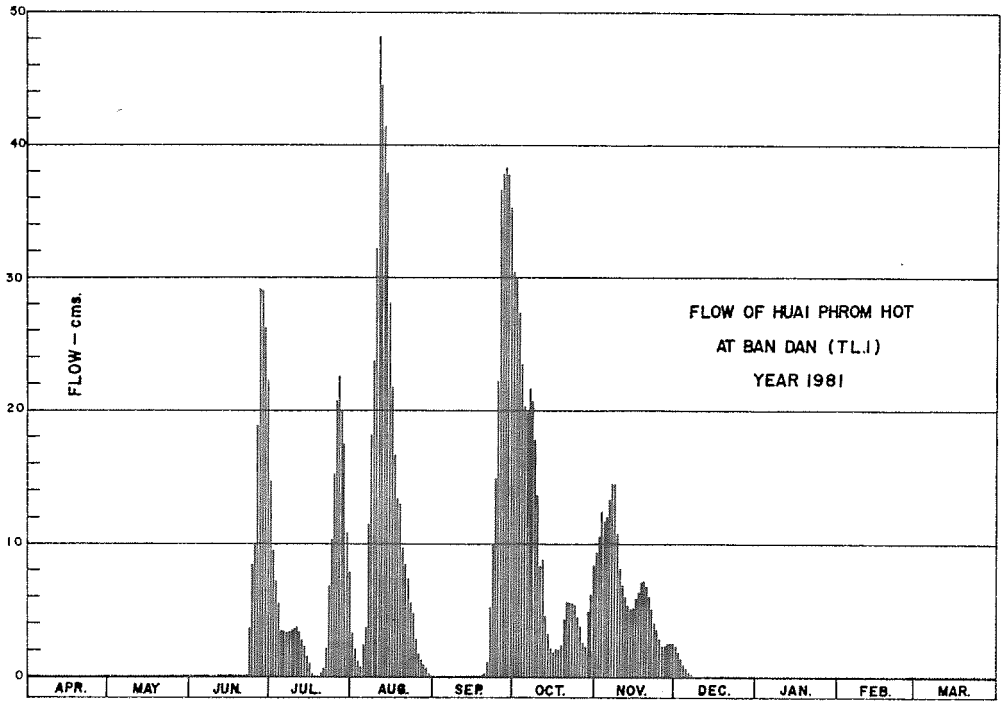
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.24	1.32	3.84	2.56	1.60	5.17	3.33	2.43	0.81	0.81	0.79	
2	0.88	1.24	1.28	3.37	2.41	1.50	5.12	3.49	2.33	0.73	0.81	0.79	
3	0.88	1.24	1.24	3.07	2.10	1.41	4.86	3.63	2.20	0.84	0.81	0.80	
4	0.88	1.25	1.17	2.91	1.91	1.33	4.52	3.58	2.00	0.84	0.81	0.80	
5	0.87	1.25	1.10	2.49	2.35	1.09	4.24	3.63	1.90	0.84	0.81	0.80	
6	0.87	1.28	1.07	2.61	2.64	1.04	4.35	3.76	1.80	0.84	0.81	0.80	
7	0.87	1.27	1.06	2.60	3.85	0.99	4.50	3.85	1.66	0.81	0.81	0.80	
8	0.87	1.26	1.03	2.53	4.19	0.96	4.37	3.82	1.56	0.81	0.81	0.80	
9	0.88	1.25	1.02	2.59	5.01	0.96	4.01	3.52	1.52	0.81	0.81	0.80	
10	0.88	1.27	1.13	2.63	5.62	0.95	3.67	3.26	1.42	0.81	0.83	0.80	
11	0.88	1.30	1.14	2.64	5.98	0.93	3.23	3.13	1.40	0.81	0.82	0.80	
12	0.88	1.32	1.13	2.59	5.91	0.93	3.30	2.95	1.38	0.81	0.79	0.80	
13	0.88	1.34	1.13	2.44	5.75	0.94	2.76	2.88	1.33	0.81	0.78	0.80	
14	0.88	1.34	1.10	2.31	5.60	0.97	2.51	2.77	1.24	0.81	0.79	0.80	
15	0.88	1.34	1.08	2.10	5.06	1.03	2.36	2.85	1.20	0.81	0.79	0.80	
16	0.88	1.34	1.08	1.99	4.50	1.01	2.23	2.97	1.15	0.81	0.79	0.80	
17	0.88	1.34	1.08	1.64	4.00	1.03	2.39	3.03	1.12	0.81	0.79	0.80	
18	0.88	1.36	1.07	1.59	3.71	1.05	2.32	3.13	1.11	0.81	0.79	0.80	
19	0.88	1.44	1.06	1.56	3.58	1.09	2.41	3.14	1.07	0.81	0.79	0.80	
20	0.88	1.44	1.14	1.57	3.37	1.77	2.74	3.09	1.06	0.81	0.79	0.80	
21	0.89	1.45	1.16	1.93	3.27	2.04	2.93	2.98	0.97	0.81	0.79	0.80	
22	0.97	1.50	1.36	2.40	3.07	2.94	2.88	2.88	0.96	0.81	0.79	0.80	
23	1.08	1.48	2.53	2.94	2.96	3.48	2.91	2.73	0.98	0.81	0.79	0.80	
24	1.15	1.35	3.23	3.49	2.80	3.98	2.90	2.61	0.98	0.81	0.79	0.80	
25	1.17	1.21	3.41	4.02	2.55	5.15	2.78	2.51	0.98	0.81	0.79	0.80	
26	1.20	1.17	4.63	4.52	2.27	5.55	2.66	2.37	0.96	0.81	0.79	0.81	
27	1.20	1.14	5.09	4.57	2.12	5.64	2.58	2.39	0.93	0.81	0.79	0.81	
28	1.21	1.11	5.08	4.30	1.99	5.66	2.36	2.44	0.90	0.81	0.79	0.81	
29	1.23	1.14	4.85	3.97	1.83	5.56	2.81	2.46	0.84	0.81		0.81	
30	1.24	1.30	4.30	3.51	1.63	5.34	3.02	2.46	0.84	0.81		0.81	
31		1.30		3.24	1.69		3.18		0.88	0.81		0.81	
MEAN	0.96	1.30	1.94	2.84	3.43	2.26	3.29	3.05	1.33	0.81	0.80	0.80	
MAX	1.24	1.50	5.09	4.57	5.98	5.66	5.17	3.85	2.43	0.84	0.83	0.81	5.98
MIN	0.87	1.11	1.02	1.56	1.63	0.93	2.23	2.37	0.84	0.73	0.78	0.79	0.73

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.98 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.17 M (A.D)

LEFT BANK ELEVATION — 4.76 M (A.D)

RIGHT BANK ELEVATION — 4.80 M (A.D), DRAINAGE AREA 571 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	14.44	3.26	0.00	30.11	9.10	2.48	0.00	0.00	0.00	
2	0.00	0.00	0.00	9.50	2.36	0.00	29.46	10.70	1.95	0.00	0.00	0.00	
3	0.00	0.00	0.00	6.76	1.20	0.00	26.08	12.13	1.50	0.00	0.00	0.00	
4	0.00	0.00	0.00	5.57	0.63	0.00	21.94	11.60	0.90	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.84	2.05	0.00	18.84	12.13	0.60	0.00	0.00	0.00	
6	0.00	0.00	0.00	3.56	3.74	0.00	20.05	13.56	0.30	0.00	0.00	0.00	
7	0.00	0.00	0.00	3.50	14.55	0.00	21.70	14.55	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	3.08	18.29	0.00	20.27	14.22	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	3.44	28.03	0.00	16.31	11.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	3.68	37.40	0.00	12.57	8.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	3.74	48.04	0.00	8.10	7.24	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	3.44	45.03	0.00	8.80	5.85	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	2.54	40.25	0.00	4.52	5.36	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	1.85	37.00	0.00	2.96	4.59	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	1.20	28.68	0.00	2.10	5.15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.87	21.70	0.00	1.59	5.99	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	16.20	0.00	2.25	6.44	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	13.01	0.00	1.90	7.24	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	11.60	0.00	2.36	7.32	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	9.50	0.21	4.38	6.92	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.69	8.50	1.02	5.71	6.06	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	2.30	6.76	5.78	5.36	5.36	0.00	0.00	0.00	0.00	
23	0.00	0.00	3.08	5.78	5.92	10.60	5.57	4.31	0.00	0.00	0.00	0.00	
24	0.00	0.00	8.10	10.70	4.80	15.98	5.50	3.56	0.00	0.00	0.00	0.00	
25	0.00	0.00	9.90	16.42	3.20	29.85	4.66	2.96	0.00	0.00	0.00	0.00	
26	0.00	0.00	23.26	21.94	1.71	36.10	3.86	2.15	0.00	0.00	0.00	0.00	
27	0.00	0.00	29.07	22.54	1.26	37.80	3.38	2.25	0.00	0.00	0.00	0.00	
28	0.00	0.00	28.94	19.50	0.87	38.20	2.10	2.54	0.00	0.00	0.00	0.00	
29	0.00	0.00	25.95	15.87	0.39	36.28	4.87	2.66	0.00	0.00		0.00	
30	0.00	0.00	19.50	10.90	0.00	32.48	6.36	2.66	0.00	0.00		0.00	
31		0.00		8.20	0.00		7.64		0.00	0.00		0.00	
TOTAL	0.00	0.00	147.80	204.85	415.93	244.30	311.30	214.00	7.73	0.00	0.00	0.00	1545.91 CMSDAY
MEAN	0.00	0.00	4.93	6.61	13.42	8.14	10.04	7.13	0.25	0.00	0.00	0.00	4.24 CMS
MAX	0.00	0.00	29.07	22.54	48.04	38.20	30.11	14.55	2.48	0.00	0.00	0.00	48.04 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.00	1.59	2.15	0.00	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	12.770	17.699	35.936	21.108	26.896	18.490	0.668	0.000	0.000	0.000	133.566 MCM

MOMENTARY PEAK 48.04 CMS, AT 5.98 M (A.D), AT 18.00 HOURS, ON AUG 11, 1981

RUNOFF YIELD 7.42 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 84.13 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — -0.49 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK AT THE FENCE 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

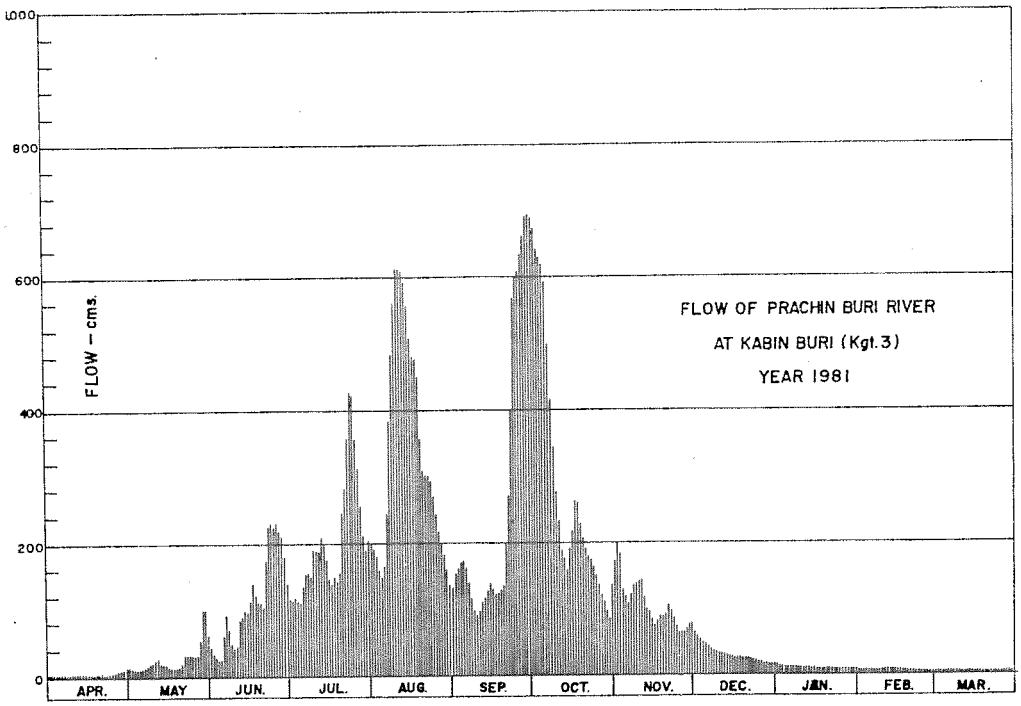
OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +9.30 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	1.12	2.03	3.65	4.99	3.94	9.59	4.77	2.66	1.08	0.69	0.59	
2	0.52	1.00	1.70	3.57	4.85	4.34	9.46	5.03	2.46	1.06	0.68	0.59	
3	0.52	0.94	1.61	3.71	4.50	4.47	9.28	4.77	2.30	1.05	0.68	0.57	
4	0.52	0.85	1.43	3.59	4.37	4.59	9.13	3.92	2.19	1.02	0.67	0.57	
5	0.51	0.86	1.34	3.50	4.18	4.61	9.13	3.59	2.09	1.00	0.67	0.57	
6	0.51	0.88	2.44	4.01	4.67	4.36	8.87	3.39	1.99	0.98	0.66	0.58	
7	0.50	0.98	3.15	4.37	6.38	3.83	8.20	3.82	1.91	0.96	0.66	0.58	
8	0.54	1.16	2.53	4.34	7.87	3.44	7.40	4.03	1.83	0.94	0.66	0.57	
9	0.52	1.34	2.20	4.55	8.32	3.15	6.55	3.96	1.76	0.92	0.66	0.58	
10	0.55	1.32	1.96	4.91	8.80	3.04	5.91	4.18	1.71	0.90	0.69	0.57	
11	0.57	1.54	2.02	4.87	9.05	3.21	5.35	4.16	1.69	0.88	0.70	0.57	
12	0.57	1.52	3.07	4.84	9.08	3.58	4.76	3.67	1.67	0.86	0.76	0.56	
13	0.54	1.23	3.07	5.21	9.03	3.63	4.39	3.26	1.64	0.85	0.75	0.54	
14	0.52	1.28	3.27	5.00	8.88	3.85	4.25	3.00	1.60	0.84	0.77	0.53	
15	0.51	1.26	3.18	4.63	8.50	4.08	4.89	2.83	1.56	0.83	0.74	0.52	
16	0.52	1.14	3.59	4.19	8.08	3.92	5.41	2.71	1.53	0.81	0.69	0.52	
17	0.53	1.01	4.07	4.05	8.07	3.71	5.99	3.01	1.53	0.81	0.67	0.52	
18	0.56	0.94	3.72	4.27	8.08	3.79	5.94	3.11	1.50	0.79	0.67	0.51	
19	0.58	0.88	3.53	4.05	7.80	3.86	5.50	3.01	1.46	0.78	0.66	0.51	
20	0.57	0.91	3.41	4.35	7.09	4.05	5.02	3.10	1.44	0.78	0.65	0.50	
21	0.60	1.40	3.27	5.71	6.60	4.98	4.87	3.41	1.50	0.77	0.65	0.49	
22	0.61	1.72	4.90	6.60	6.41	5.23	4.70	3.29	1.43	0.76	0.63	0.48	
23	0.59	1.58	5.49	7.19	6.43	7.79	4.64	2.97	1.37	0.76	0.62	0.47	
24	0.56	1.58	5.52	7.74	6.30	8.77	4.44	2.75	1.32	0.75	0.62	0.46	
25	0.56	1.73	5.42	7.65	5.92	8.93	4.23	2.60	1.32	0.74	0.60	0.46	
26	0.77	1.69	5.52	7.07	5.45	9.08	3.97	2.54	1.27	0.73	0.60	0.46	
27	0.81	1.55	5.30	6.38	5.07	9.29	3.63	2.54	1.22	0.72	0.60	0.47	
28	0.80	2.42	5.09	5.75	5.01	9.51	3.31	2.67	1.20	0.71	0.59	0.49	
29	0.88	3.31	4.72	5.16	4.54	9.61	3.13	2.80	1.17	0.70		0.51	
30	1.02	3.31	4.14	4.81	4.16	9.65	3.08	2.85	1.12	0.70		0.59	
31		2.59		5.12	3.98		4.12		1.12	0.69		0.56	
MEAN	0.59	1.45	3.42	4.99	6.53	5.38	5.78	3.39	1.63	0.84	0.67	0.53	
MAX	1.02	3.31	5.52	7.74	9.08	9.65	9.59	5.03	2.66	1.08	0.77	0.59	9.65
MIN	0.45	0.85	1.34	3.50	3.98	3.04	3.08	2.54	1.12	0.69	0.59	0.46	0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.14 M (MSL), AT 18.00 HOURS, ON SEP 30, 1981
ZERO GAGE AT BOTTOM ELEVATION -0.49 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 7502 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.8	15.0	43.0	115.0	194.8	129.7	685.5	180.5	67.4	14.0	5.8	3.8	
2	2.8	12.0	31.5	111.0	185.7	153.4	666.0	197.5	59.4	13.5	5.6	3.8	
3	2.8	10.8	28.8	118.0	163.0	161.2	639.2	180.5	53.0	13.2	5.6	3.5	
4	2.8	9.0	23.4	112.0	155.2	168.8	618.2	128.6	48.6	12.5	5.4	3.5	
5	2.7	9.2	20.7	107.5	143.8	170.1	618.2	112.0	45.1	12.0	5.4	3.5	
6	2.7	9.6	58.6	133.6	174.0	154.6	581.8	102.0	41.6	11.6	5.2	3.7	
7	2.5	11.6	90.0	155.2	295.4	124.0	492.0	123.5	38.8	11.2	5.2	3.7	
8	3.1	16.0	62.2	153.4	448.9	104.5	396.0	134.8	36.0	10.8	5.2	3.5	
9	2.8	20.7	49.0	166.2	507.6	90.0	310.2	130.8	33.6	10.4	5.2	3.7	
10	3.2	20.1	40.6	189.6	572.0	84.5	257.8	143.8	31.8	10.0	5.8	3.5	
11	3.5	26.7	42.7	187.0	607.0	93.0	218.5	142.6	31.2	9.6	6.0	3.5	
12	3.5	26.1	86.0	185.1	611.2	111.5	179.9	116.0	30.6	9.2	7.2	3.4	
13	3.1	17.7	86.0	209.1	604.2	114.0	156.4	95.5	29.7	9.0	7.0	3.1	
14	2.8	19.0	96.0	195.5	583.2	125.0	148.0	82.5	28.5	8.8	7.4	3.0	
15	2.7	18.5	91.5	171.4	531.0	137.8	138.3	74.8	27.3	8.6	6.8	2.8	
16	2.8	15.5	112.0	144.4	476.5	128.6	222.7	69.4	26.4	8.2	5.8	2.8	
17	3.0	12.2	137.2	136.0	475.3	118.0	264.2	83.0	26.4	8.2	5.4	2.8	
18	3.4	10.8	118.5	149.2	476.5	122.0	260.2	88.0	25.5	7.8	5.4	2.7	
19	3.7	9.6	109.0	136.0	437.0	125.5	229.0	83.0	24.3	7.6	5.2	2.7	
20	3.5	10.2	103.0	154.0	362.0	136.0	196.8	87.5	23.7	7.6	5.0	2.5	
21	4.0	22.5	96.0	243.7	314.7	194.2	187.0	103.0	25.5	7.4	5.0	2.3	
22	4.2	32.2	189.0	314.7	297.9	283.4	176.0	97.0	23.4	7.2	4.6	2.2	
23	3.8	27.9	228.3	372.9	299.6	435.3	172.1	81.1	21.6	7.2	4.4	2.0	
24	3.4	27.9	230.4	426.8	289.0	567.8	159.4	71.2	20.1	7.0	4.4	1.9	
25	3.4	32.5	223.4	416.7	258.6	590.2	146.8	65.0	20.1	6.8	4.0	1.9	
26	7.4	31.2	230.4	360.0	225.5	611.2	131.3	62.6	18.7	6.6	4.0	1.9	
27	8.2	27.0	215.0	295.4	200.0	640.6	114.0	62.6	17.5	6.4	4.0	2.0	
28	8.0	57.8	201.3	246.5	196.1	673.5	98.0	67.8	17.0	6.2	3.8	2.3	
29	9.6	98.0	177.3	205.9	165.6	688.5	89.0	73.5	16.2	6.0		2.7	
30	12.5	98.0	141.4	183.1	142.6	694.5	86.5	75.7	15.0	6.0		3.8	
31		64.6		203.3	131.9		140.2		15.0	5.8		3.4	
TOTAL	123.7	819.9	3362.2	6298.2	10525.8	7931.4	8829.2	3115.8	939.0	276.4	149.8	91.9	42463.3 CMSDAY
MEAN	4.1	26.4	112.1	203.2	339.5	264.4	284.8	103.9	30.3	8.9	5.3	3.0	116.3 CMS
MAX	12.5	98.0	230.4	426.8	611.2	694.5	685.5	197.5	67.4	14.0	7.4	3.8	694.5 CMS
MIN	1.8	9.0	20.7	107.5	131.9	84.5	86.5	62.6	15.0	5.8	3.8	1.9	1.8 CMS
RUNOFF	10.69	70.84	290.49	544.16	909.43	685.27	762.84	269.20	81.13	23.88	12.94	7.94	3668.82 MCM

MOMENTARY PEAK 770.40 CMS, AT 10.14 M (MSL), AT 18.00 HOURS, ON SEP 30, 1981

RUNOFF YIELD 15.51 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 102.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PRACHIN BURI RIVER BASIN

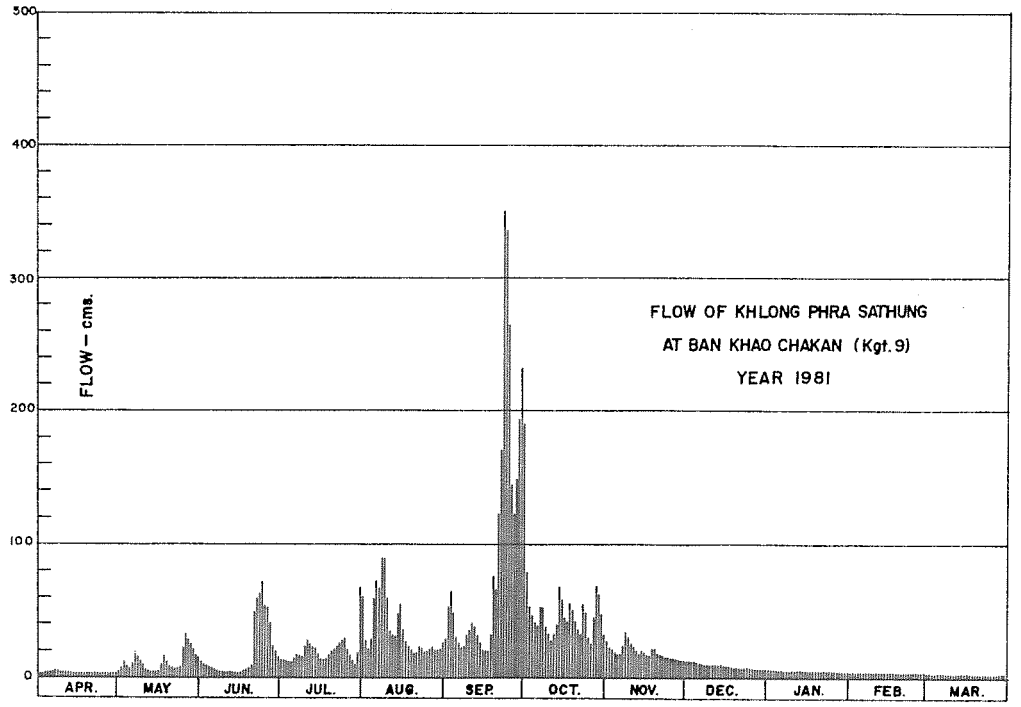
KHLONG PHRA SATHUNG AT BAN KHAO CHAKAN, PRACHIN BURI (KGT.9)

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 AT	-0.49 M.(M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE LADDER OF 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +9.58 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 269 DISCHARGE MEASUREMENTS MADE DURING 1969-1970.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	0.45	0.97	1.10	2.85	2.09	6.61	1.86	1.10	0.64	0.50	0.46	
2	0.37	0.79	0.89	1.16	2.01	2.97	3.79	1.70	1.08	0.64	0.50	0.45	
3	0.37	1.05	0.85	1.09	1.54	3.44	3.01	1.57	1.07	0.63	0.50	0.45	
4	0.43	0.63	0.79	0.94	1.93	2.63	2.62	1.44	1.04	0.63	0.49	0.45	
5	0.48	0.68	0.71	1.04	3.24	2.09	2.43	1.34	1.02	0.63	0.49	0.48	
6	0.48	1.04	0.65	1.27	3.76	1.73	2.35	1.51	1.00	0.62	0.49	0.50	
7	0.52	1.46	0.59	1.35	3.39	1.65	3.02	1.76	0.96	0.61	0.50	0.50	
8	0.53	1.32	0.53	1.14	4.28	1.71	2.97	2.19	0.93	0.60	0.49	0.48	
9	0.49	1.02	0.47	1.16	4.31	2.09	2.36	2.00	0.91	0.59	0.50	0.45	
10	0.44	0.80	0.42	1.70	3.22	2.24	2.05	1.80	0.89	0.58	0.50	0.42	
11	0.42	0.64	0.39	1.90	2.35	2.44	1.80	1.61	0.88	0.58	0.50	0.40	
12	0.43	0.53	0.35	1.78	2.08	2.32	1.93	1.45	0.87	0.57	0.51	0.40	
13	0.43	0.48	0.45	1.73	2.06	2.09	2.42	1.29	0.86	0.56	0.50	0.42	
14	0.44	0.46	0.57	1.59	2.82	1.76	3.57	1.48	0.84	0.55	0.51	0.41	
15	0.45	0.46	0.68	1.32	2.68	1.59	3.26	1.47	0.81	0.55	0.50	0.40	
16	0.44	0.52	0.67	1.09	2.10	1.42	2.58	1.35	0.79	0.54	0.49	0.39	
17	0.44	1.09	0.66	1.14	1.81	1.42	2.48	1.28	0.77	0.54	0.48	0.38	
18	0.43	1.26	0.75	1.24	1.68	2.13	3.10	1.58	0.77	0.54	0.47	0.38	
19	0.42	0.96	0.69	1.34	1.53	3.87	2.82	1.59	0.76	0.53	0.47	0.36	
20	0.42	0.78	0.93	1.42	1.45	3.25	2.54	1.37	0.74	0.53	0.48	0.34	
21	0.42	0.71	2.77	1.55	1.52	5.24	2.29	1.32	0.72	0.53	0.47	0.32	
22	0.41	0.69	3.09	1.69	1.73	8.88	1.97	1.30	0.71	0.52	0.47	0.32	
23	0.41	0.67	3.25	1.81	1.60	10.25	3.06	1.28	0.70	0.52	0.46	0.32	
24	0.40	0.86	3.68	1.92	1.47	9.87	2.84	1.25	0.69	0.52	0.46	0.31	
25	0.40	1.69	3.02	1.98	1.45	8.90	2.06	1.22	0.68	0.51	0.46	0.31	
26	0.40	2.13	2.92	1.65	1.62	5.96	1.70	1.20	0.68	0.51	0.47	0.31	
27	0.39	1.94	2.41	1.22	1.66	5.32	2.49	1.17	0.67	0.50	0.46	0.31	
28	0.39	1.79	1.81	0.88	1.48	6.37	3.57	1.15	0.67	0.50	0.46	0.34	
29	0.38	1.58	1.42	0.80	1.54	7.74	3.57	1.13	0.67	0.50		0.46	
30	0.38	1.36	1.22	1.52	1.60	8.03	2.64	1.11	0.66	0.50		0.39	
31		1.13		3.51	1.82		2.08		0.65	0.50		0.39	
MEAN	0.43	1.00	1.29	1.45	2.21	4.05	2.77	1.46	0.83	0.56	0.48	0.40	
MAX	0.53	2.13	3.68	3.51	4.31	10.25	6.61	2.19	1.10	0.64	0.51	0.50	10.25
MIN	0.37	0.45	0.35	0.80	1.45	1.42	1.70	1.11	0.65	0.50	0.46	0.31	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.32 M (A.D), AT 6.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -1.00 M (A.D)
LEFT BANK ELEVATION 10.38 M (A.D)
RIGHT BANK ELEVATION 9.57 M (A.D), DRAINAGE AREA 2279 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.80	3.50	10.18	12.20	49.25	31.18	170.49	26.22	12.20	5.68	4.00	3.60	
2	2.70	7.66	9.06	13.16	29.42	52.25	74.12	23.08	11.88	5.68	4.00	3.50	
3	2.70	11.40	8.50	12.04	19.94	64.38	53.25	20.53	11.72	5.56	4.00	3.50	
4	3.30	5.56	7.66	9.76	27.66	43.92	43.68	17.98	11.24	5.56	3.90	3.50	
5	3.80	6.16	6.54	11.24	59.14	31.18	39.12	16.12	10.92	5.56	3.90	3.80	
6	3.80	11.24	5.80	14.92	73.28	23.67	37.20	19.36	10.60	5.44	3.90	4.00	
7	4.24	18.38	5.08	16.30	63.04	22.10	53.50	24.26	10.04	5.32	4.00	4.00	
8	4.36	15.76	4.36	12.84	88.56	23.28	52.25	33.38	9.62	5.20	3.90	3.80	
9	3.90	10.92	3.70	13.16	89.52	31.18	37.44	29.20	9.34	5.08	4.00	3.50	
10	3.40	7.80	3.20	23.08	58.62	34.56	30.30	25.04	9.06	4.96	4.00	3.20	
11	3.20	5.68	2.90	27.00	37.20	39.36	25.04	21.32	8.92	4.96	4.00	3.00	
12	3.30	4.36	2.50	24.65	30.96	36.48	27.66	18.18	8.78	4.84	4.12	3.00	
13	3.30	3.80	3.50	23.67	30.52	31.18	38.88	15.24	8.64	4.72	4.00	3.20	
14	3.40	3.60	4.84	20.92	48.50	24.26	67.96	18.77	8.36	4.60	4.12	3.10	
15	3.50	3.60	6.16	15.76	45.12	20.92	59.66	18.57	7.94	4.60	4.00	3.00	
16	3.40	4.24	6.04	12.04	31.40	17.59	42.72	16.30	7.66	4.48	3.90	2.90	
17	3.40	12.04	5.92	12.84	25.24	17.59	40.32	15.08	7.38	4.48	3.80	2.80	
18	3.30	14.76	7.10	14.44	22.69	32.06	55.50	20.73	7.38	4.48	3.70	2.80	
19	3.20	10.04	6.28	16.12	19.75	76.36	48.50	20.92	7.24	4.36	3.70	2.60	
20	3.20	7.52	9.62	17.59	18.18	59.40	41.76	16.66	6.96	4.36	3.80	2.40	
21	3.20	6.54	47.28	20.14	19.55	119.76	35.76	15.76	6.68	4.36	3.70	2.20	
22	3.10	6.28	55.25	22.88	23.67	275.72	28.54	15.40	6.54	4.24	3.70	2.20	
23	3.10	6.04	59.40	25.24	21.12	350.25	54.50	15.08	6.40	4.24	3.60	2.20	
24	3.00	8.64	71.04	27.44	18.57	329.35	49.00	14.60	6.28	4.24	3.60	2.10	
25	3.00	22.88	53.50	28.76	18.18	276.80	30.52	14.12	6.16	4.12	3.60	2.10	
26	3.00	32.06	51.00	22.10	21.51	145.48	23.08	13.80	6.16	4.12	3.70	2.10	
27	2.90	27.88	38.64	14.12	22.30	122.48	40.56	13.32	6.04	4.00	3.60	2.10	
28	2.90	24.84	25.24	8.92	18.77	161.13	67.96	13.00	6.04	4.00	3.60	2.40	
29	2.80	20.73	17.59	7.80	19.94	218.52	67.96	12.68	6.04	4.00		3.60	
30	2.80	16.48	14.12	19.55	21.12	232.44	44.16	12.36	5.92	4.00		2.90	
31		12.68		66.28	25.43		30.96		5.80	4.00		2.90	
TOTAL	98.00	353.07	552.00	586.96	1098.15	2944.83	1512.35	557.06	253.94	145.24	107.84	92.00	8301.43 CMSDAY
MEAN	3.27	11.39	18.40	18.93	35.42	98.16	48.79	18.57	8.19	4.69	3.85	2.97	22.74 CMS
MAX	4.36	32.06	71.04	66.28	89.52	350.25	170.49	33.38	12.20	5.68	4.12	4.00	350.25 CMS
MIN	2.70	3.50	2.50	7.80	18.18	17.59	23.08	12.36	5.80	4.00	3.60	2.10	2.10 CMS
RUNOFF	8.467	30.505	47.693	50.713	94.880	254.433	130.667	48.130	21.940	12.549	9.317	7.949	717.243 MCM

MOMENTARY PEAK 354.10 CMS, AT 10.32 M (A.D), AT 6.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 9.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 155.38 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +23.741 M. (M.S.L.)

BENCH MARK — B.M.=H.D.

LOCATION — UNDER THE COCONUT TREE NEAR THE STATION OFFICE.

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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +35.00 M.(M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

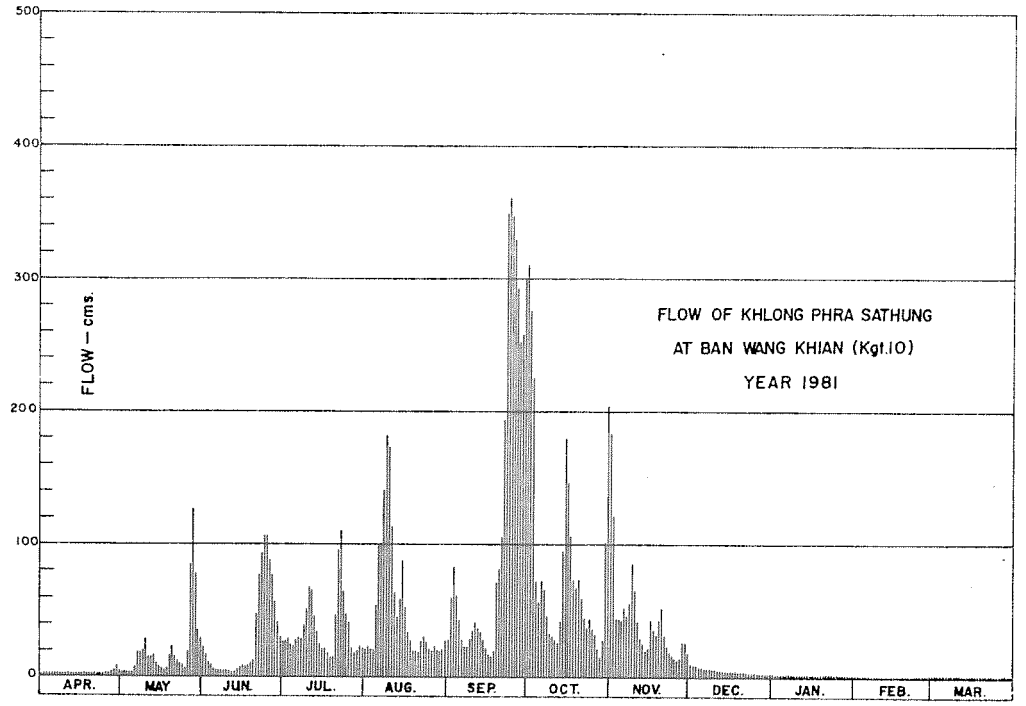
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	24.89	25.39	27.01	27.19	26.84	27.50	34.72	32.78	26.10	25.24	25.05	24.94	
2	24.89	25.24	26.66	27.31	27.11	28.81	34.18	29.86	25.97	25.25	25.05	24.95	
3	24.90	25.39	26.19	27.43	26.86	29.95	31.79	28.21	25.92	25.25	25.04	24.96	
4	24.88	25.26	25.89	27.19	26.83	29.42	29.43	28.20	25.92	25.26	25.04	24.98	
5	24.99	25.27	25.72	26.95	28.79	28.26	28.86	27.96	25.90	25.25	25.04	24.98	
6	25.00	25.91	25.63	27.36	30.54	27.37	29.55	28.67	25.85	25.23	25.03	25.00	
7	25.02	26.71	25.61	27.45	30.54	27.05	29.25	28.15	25.81	25.21	25.03	25.02	
8	25.09	26.65	25.62	27.33	31.82	26.88	28.19	28.79	25.76	25.18	25.02	25.01	
9	25.08	26.81	25.60	27.91	32.78	27.33	27.66	30.01	25.73	25.17	25.02	25.01	
10	25.01	27.38	25.58	28.54	32.48	27.73	27.53	29.39	25.72	25.15	25.03	24.98	
11	24.96	26.27	25.50	29.33	30.62	28.11	27.36	28.10	25.71	25.19	25.02	24.96	
12	24.91	26.39	25.43	29.23	28.92	27.91	27.05	27.42	25.66	25.20	25.04	24.93	
13	24.94	26.55	25.43	28.37	28.04	27.76	26.08	27.10	25.64	25.19	25.05	24.92	
14	24.93	26.18	25.67	27.75	28.71	27.27	31.64	26.83	25.60	25.19	25.04	24.91	
15	25.00	25.82	25.83	27.09	29.37	26.90	32.73	26.98	25.55	25.18	25.04	24.93	
16	25.08	25.67	26.05	26.75	28.38	26.64	31.90	28.23	25.58	25.16	25.04	24.92	
17	25.09	25.56	25.91	26.84	27.64	26.41	30.19	27.79	25.55	25.16	25.02	24.90	
18	25.06	25.57	26.01	26.67	27.25	26.75	29.50	27.44	25.54	25.14	25.00	24.89	
19	25.02	26.49	26.05	26.49	26.88	29.46	29.18	28.25	25.55	25.13	25.00	24.88	
20	24.97	27.09	26.05	26.48	26.66	29.85	29.60	28.67	25.48	25.12	24.99	24.87	
21	24.93	26.42	28.02	28.26	26.70	30.84	28.98	27.70	25.48	25.11	24.97	24.85	
22	24.93	26.29	29.76	30.37	27.28	33.69	28.07	27.11	25.45	25.11	24.97	24.84	
23	24.95	26.16	30.14	30.99	27.49	35.19	27.68	26.78	25.41	25.11	24.97	24.84	
24	24.99	25.85	30.80	29.18	27.16	35.34	28.23	26.57	25.41	25.10	24.96	24.83	
25	24.99	25.62	30.81	28.18	26.85	35.18	27.86	26.44	25.41	25.10	24.95	24.83	
26	25.05	27.04	30.08	27.42	26.80	34.96	27.42	26.38	25.39	25.09	24.96	24.82	
27	25.42	30.45	29.85	26.92	27.03	34.37	26.83	26.42	25.38	25.08	24.95	24.83	
28	25.35	31.46	29.00	26.60	26.81	33.91	26.40	27.24	25.38	25.08	24.95	24.84	
29	25.86	29.64	28.13	26.85	26.87	34.06	27.71	27.22	25.35	25.07		24.88	
30	25.48	27.76	27.52	27.14	26.89	34.49	31.85	26.60	25.31	25.07		24.99	
31		27.34		26.97	27.33		33.21		25.26	25.06		24.98	
MEAN	25.06	26.63	27.05	27.69	28.20	29.98	29.44	27.91	25.61	25.16	25.01	24.92	
MAX	25.86	31.46	30.81	30.99	32.78	35.34	34.72	32.78	26.10	25.26	25.05	25.02	35.34
MIN	24.88	25.24	25.43	26.48	26.66	26.41	26.40	26.38	25.26	25.06	24.95	24.82	24.82

ANNUAL MAX MOMENTARY GAGE HEIGHT — 35.43 M (MSL), AT 20.00 HOURS, ON SEP 23, 1981

ZERO GAGE AT BOTTOM ELEVATION — 23.74 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION — 34.50 M (MSL)

RIGHT BANK ELEVATION — 34.50 M (MSL), DRAINAGE AREA 2523 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.95	3.45	22.35	25.14	19.80	30.40	308.60	132.54	10.00	2.70	1.75	1.20	
2	0.95	2.70	17.14	27.17	23.86	55.82	267.60	81.05	8.70	2.75	1.75	1.25	
3	1.00	3.45	10.90	29.21	20.10	83.54	139.62	43.50	8.20	2.75	1.70	1.30	
4	0.90	2.80	7.90	25.14	19.65	70.08	70.32	43.30	8.20	2.80	1.70	1.40	
5	1.45	2.85	6.20	21.45	55.38	44.50	56.92	38.64	8.00	2.75	1.70	1.40	
6	1.50	8.10	5.30	28.02	98.82	28.19	73.20	52.77	7.50	2.65	1.65	1.50	
7	1.60	17.85	5.10	29.55	98.82	22.95	66.00	42.30	7.10	2.55	1.65	1.60	
8	1.95	17.00	5.20	27.51	140.78	20.40	43.10	55.38	6.60	2.40	1.60	1.55	
9	1.90	19.35	5.00	37.69	182.54	27.51	33.12	85.19	6.30	2.35	1.60	1.55	
10	1.55	28.36	4.84	50.10	168.60	34.34	30.91	69.36	6.20	2.25	1.65	1.40	
11	1.30	11.84	4.20	67.92	101.06	41.50	28.02	41.30	6.10	2.45	1.60	1.30	
12	1.05	13.37	3.71	65.52	58.24	37.69	22.95	29.04	5.60	2.50	1.70	1.15	
13	1.20	15.60	3.71	46.70	40.16	34.88	40.92	23.70	5.40	2.45	1.75	1.10	
14	1.15	10.80	5.70	34.70	53.62	26.49	133.98	19.65	5.00	2.45	1.70	1.05	
15	1.50	7.20	7.30	23.55	68.88	20.70	180.14	21.90	4.60	2.40	1.70	1.15	
16	1.90	5.70	9.50	18.45	46.90	16.86	143.90	43.90	4.84	2.30	1.70	1.10	
17	1.95	4.68	8.10	19.80	32.78	13.64	90.16	35.42	4.60	2.30	1.60	1.00	
18	1.80	4.76	9.10	17.28	26.15	18.45	72.00	29.38	4.52	2.20	1.50	0.95	
19	1.60	14.76	9.50	14.76	20.40	71.04	64.32	44.30	4.60	2.15	1.50	0.90	
20	1.35	23.55	9.50	14.62	17.14	80.78	74.40	52.77	4.06	2.10	1.45	0.85	
21	1.15	13.78	39.78	44.50	17.70	107.44	59.56	33.80	4.06	2.05	1.35	0.75	
22	1.15	12.08	78.40	95.12	26.66	233.87	40.73	23.86	3.85	2.05	1.35	0.70	
23	1.25	10.60	88.78	112.09	30.23	347.65	33.46	18.90	3.57	2.05	1.35	0.70	
24	1.45	7.50	106.20	64.32	24.66	360.40	43.90	15.88	3.57	2.00	1.30	0.65	
25	1.45	5.20	106.51	42.90	19.95	346.80	36.74	14.06	3.57	2.00	1.25	0.65	
26	1.75	22.80	87.12	29.04	19.20	328.10	29.04	13.24	3.45	1.95	1.30	0.60	
27	3.64	96.82	80.78	21.00	22.65	281.75	19.65	13.78	3.40	1.90	1.25	0.65	
28	3.25	127.60	60.00	16.30	19.35	248.70	13.50	25.98	3.40	1.90	1.25	0.70	
29	7.60	75.40	41.90	19.95	20.25	259.20	33.98	25.64	3.25	1.85		0.90	
30	4.06	34.88	30.74	24.34	20.55	290.75	141.95	16.30	3.05	1.85		1.45	
31		27.68		21.75	27.51		204.79		2.80	1.80		1.40	
TOTAL	55.30	652.51	880.46	1115.59	1542.39	3584.42	2597.48	1236.83	164.09	70.65	43.35	33.85	11976.90 CMSDAY
MEAN	1.84	21.05	29.35	35.99	49.75	119.48	83.79	41.23	5.29	2.28	1.55	1.09	32.81 CMS
MAX	7.60	127.60	106.51	112.09	182.54	360.40	308.60	182.54	10.00	2.80	1.75	1.60	360.40 CMS
MIN	0.90	2.70	3.71	14.62	17.14	13.64	13.50	13.24	2.80	1.80	1.25	0.60	0.60 CMS
RUNOFF	4.778	56.377	76.072	96.387	133.262	309.694	224.422	106.862	14.177	6.104	3.745	2.925	1034.804 MCM

MOMENTARY PEAK 368.05 CMS, AT 35.43 M (MSL), AT 20.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 13.01 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 145.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +9.687 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 17 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

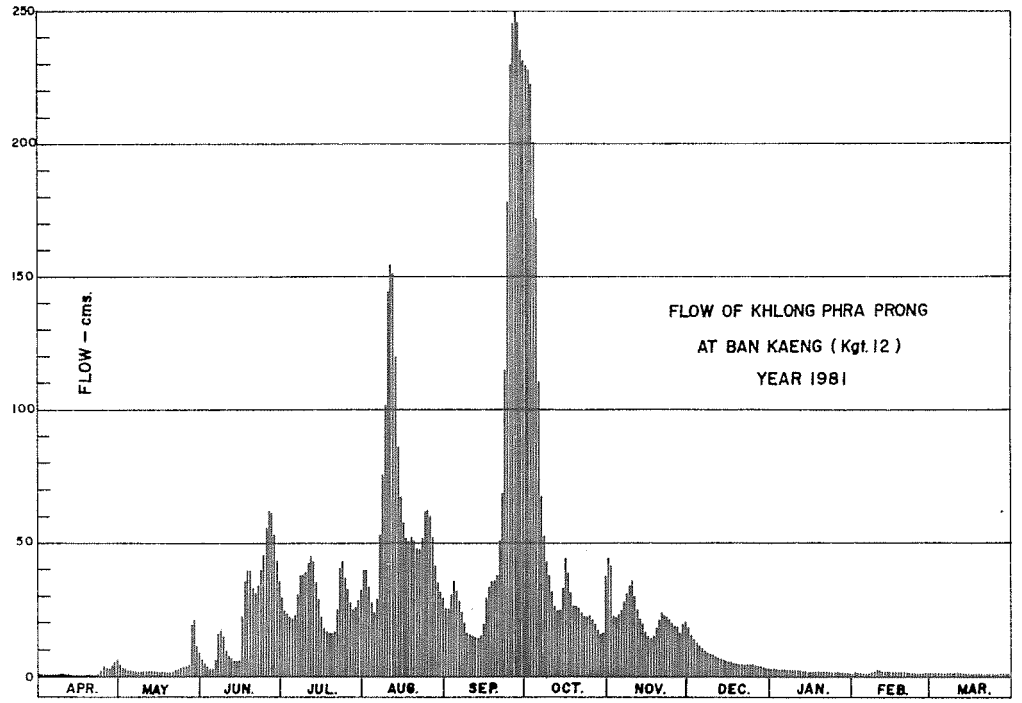
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.39	0.87	1.12	2.52	3.02	2.28	8.32	3.30	1.87	0.82	0.57	0.60	
2	0.39	0.85	0.96	2.30	3.01	2.27	8.27	3.10	1.75	0.79	0.56	0.58	
3	0.41	0.79	0.84	2.24	2.65	2.62	8.14	2.19	1.65	0.77	0.56	0.57	
4	0.41	0.74	0.77	2.15	2.32	2.81	7.71	2.15	1.56	0.76	0.56	0.56	
5	0.39	0.77	0.82	2.10	2.15	2.67	6.57	2.26	1.48	0.73	0.56	0.57	
6	0.39	0.70	1.19	2.16	2.47	2.43	4.94	2.28	1.42	0.70	0.56	0.55	
7	0.39	0.66	1.78	2.63	3.44	2.19	3.96	2.38	1.39	0.69	0.58	0.55	
8	0.38	0.61	1.88	2.91	4.35	1.95	3.40	2.62	1.34	0.70	0.62	0.54	
9	0.37	0.64	1.64	2.91	5.42	1.78	3.06	2.78	1.29	0.72	0.76	0.54	
10	0.36	0.65	1.37	2.99	6.22	1.76	2.79	2.85	1.27	0.72	0.72	0.54	
11	0.35	0.65	1.22	3.13	6.56	1.76	2.59	2.48	1.24	0.70	0.71	0.53	
12	0.35	0.67	1.17	3.23	6.40	1.71	2.37	2.25	1.20	0.69	0.71	0.53	
13	0.35	0.63	1.12	3.02	5.73	1.69	2.26	2.10	1.17	0.68	0.70	0.52	
14	0.36	0.61	1.07	2.75	4.84	1.77	2.31	1.95	1.14	0.71	0.67	0.51	
15	0.36	0.60	1.12	2.43	4.14	1.95	2.87	1.80	1.11	0.64	0.63	0.52	
16	0.32	0.60	2.20	2.10	3.68	2.53	3.21	1.71	1.09	0.65	0.62	0.52	
17	0.31	0.61	2.74	1.91	3.51	2.73	2.94	1.68	1.05	0.64	0.63	0.51	
18	0.36	0.61	3.02	1.83	3.48	2.77	2.52	1.76	1.03	0.63	0.62	0.50	
19	0.35	0.59	3.01	1.85	3.53	2.74	2.39	1.93	1.02	0.62	0.59	0.49	
20	0.36	0.58	2.67	1.80	3.44	2.91	2.40	2.10	0.99	0.64	0.61	0.48	
21	0.37	0.64	2.61	1.95	3.29	3.26	2.34	2.22	0.97	0.65	0.60	0.49	
22	0.37	0.66	2.84	2.43	3.33	4.26	2.22	2.22	0.94	0.64	0.59	0.55	
23	0.40	0.68	3.02	3.04	3.62	5.88	2.16	2.13	0.94	0.63	0.57	0.55	
24	0.74	0.76	3.28	3.16	3.90	7.47	2.17	2.12	0.94	0.62	0.58	0.52	
25	0.96	0.86	3.71	2.80	3.92	8.34	2.19	2.03	0.94	0.65	0.58	0.51	
26	0.83	0.90	3.90	2.61	3.73	8.69	2.11	1.93	0.92	0.60	0.58	0.50	
27	0.76	1.03	3.87	2.34	3.36	8.76	1.99	1.80	0.90	0.56	0.58	0.54	
28	0.92	1.89	3.57	2.24	2.92	8.62	1.90	1.86	0.89	0.59	0.60	0.53	
29	1.16	2.07	3.13	2.34	2.74	8.46	1.79	2.00	0.84	0.59		0.50	
30	1.05	1.57	2.82	2.45	2.56	8.36	1.84	2.01	0.84	0.59		0.51	
31		1.38		2.63	2.40		2.99		0.82	0.58		0.60	
MEAN	0.50	0.84	2.15	2.48	3.75	3.91	3.44	2.20	1.16	0.67	0.61	0.53	
MAX	1.16	2.07	3.90	3.23	6.56	8.76	8.32	3.30	1.87	0.82	0.76	0.60	8.76
MIN	0.31	0.58	0.77	1.80	2.15	1.69	1.79	1.68	0.82	0.56	0.56	0.48	0.31

ANNUAL MAX MOMENTARY GAGE HEIGHT 8.78 M (A.D), AT 6.00 HOURS, ON SEP 27, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION M (A.D)

RIGHT BANK ELEVATION M (A.D), DRAINAGE AREA 1540 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	3.70	6.34	29.20	40.06	24.54	229.18	46.70	17.19	3.20	1.62	1.80	
2	0.54	3.50	4.60	24.90	39.83	24.36	226.98	41.90	15.15	2.94	1.56	1.68	
3	0.66	2.94	3.40	23.82	31.85	31.22	221.26	22.92	13.50	2.82	1.56	1.62	
4	0.66	2.64	2.82	22.20	25.28	35.32	202.43	22.20	12.10	2.76	1.56	1.56	
5	0.54	2.82	3.20	21.30	22.20	32.27	155.00	24.18	10.92	2.58	1.56	1.62	
6	0.54	2.40	7.18	22.38	28.20	27.40	94.36	24.54	10.08	2.40	1.56	1.50	
7	0.54	2.16	15.66	31.43	50.14	22.92	63.98	26.42	9.67	2.34	1.68	1.50	
8	0.48	1.86	17.36	37.53	75.30	18.60	49.10	31.22	9.02	2.40	1.92	1.44	
9	0.42	2.04	13.34	37.53	110.94	15.66	40.98	34.66	8.38	2.52	2.76	1.44	
10	0.36	2.10	9.41	39.37	141.08	15.32	34.88	36.20	8.14	2.52	2.52	1.44	
11	0.30	2.10	7.54	42.62	154.60	15.32	30.60	28.40	7.78	2.40	2.46	1.38	
12	0.30	2.22	6.94	45.02	148.20	14.47	26.23	24.00	7.30	2.34	2.46	1.38	
13	0.30	1.98	6.34	40.06	122.44	14.14	24.18	21.30	6.94	2.28	2.40	1.32	
14	0.36	1.86	5.77	34.00	90.96	15.49	25.09	18.60	6.58	2.46	2.22	1.26	
15	0.36	1.80	6.34	27.40	69.06	18.60	36.64	16.00	6.22	2.04	1.98	1.32	
16	0.12	1.80	23.10	21.30	56.38	29.40	44.54	14.47	5.99	2.10	1.92	1.32	
17	0.06	1.86	33.78	17.88	51.96	33.56	38.22	13.98	5.55	2.04	1.98	1.26	
18	0.36	1.86	40.06	16.51	51.18	34.44	29.20	15.32	5.33	1.98	1.92	1.20	
19	0.30	1.74	39.83	16.85	52.48	33.78	26.61	18.24	5.22	1.92	1.74	1.14	
20	0.36	1.68	32.27	16.00	50.14	37.53	26.80	21.30	4.90	2.04	1.86	1.08	
21	0.42	2.04	31.01	18.60	46.46	45.74	25.66	23.46	4.70	2.10	1.80	1.14	
22	0.42	2.16	35.98	27.40	47.42	72.60	23.46	23.46	4.40	2.04	1.74	1.50	
23	0.60	2.28	40.06	40.52	54.82	128.14	22.38	21.84	4.40	1.98	1.62	1.50	
24	2.64	2.94	46.22	43.34	62.30	192.24	22.56	21.66	4.40	1.92	1.68	1.32	
25	4.60	3.60	57.17	35.10	62.86	230.06	22.92	20.04	4.40	2.10	1.68	1.26	
26	3.30	4.00	62.30	31.01	57.71	245.75	21.48	18.24	4.20	1.80	1.68	1.20	
27	2.76	5.33	61.49	25.66	48.14	248.96	19.32	16.00	4.00	1.56	1.68	1.44	
28	4.20	17.53	53.52	23.82	37.76	242.60	17.70	17.02	3.90	1.74	1.80	1.38	
29	6.82	20.76	42.62	25.66	33.78	235.40	15.83	19.50	3.40	1.74		1.20	
30	5.55	12.25	35.54	27.80	30.00	230.94	16.68	19.68	3.40	1.74		1.26	
31		9.54		31.43	26.80		39.37		3.20	1.68		1.80	
TOTAL	39.41	127.49	751.19	897.64	1920.33	2366.77	1873.62	703.45	220.36	68.48	52.92	43.26	9064.91 CMSDAY
MEAN	1.31	4.11	25.04	28.96	61.95	78.89	60.44	23.45	7.11	2.21	1.89	1.40	24.84 CMS
MAX	6.82	20.76	62.30	45.02	154.60	248.96	229.18	46.70	17.19	3.20	2.76	1.80	248.96 CMS
MIN	0.06	1.68	2.82	16.00	22.20	14.14	15.83	13.98	3.20	1.56	1.56	1.08	0.06 CMS
RUNOFF	3.405	11.015	64.903	77.556	165.916	204.489	161.881	60.778	19.039	5.917	4.572	3.738	783.208 MCM

MOMENTARY PEAK 249.88 CMS, AT 8.78 M (A.D), AT 6.00 HOURS, ON SEP 27, 1981

RUNOFF YIELD 16.13 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 162.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PRACHIN BURI RIVER BASIN

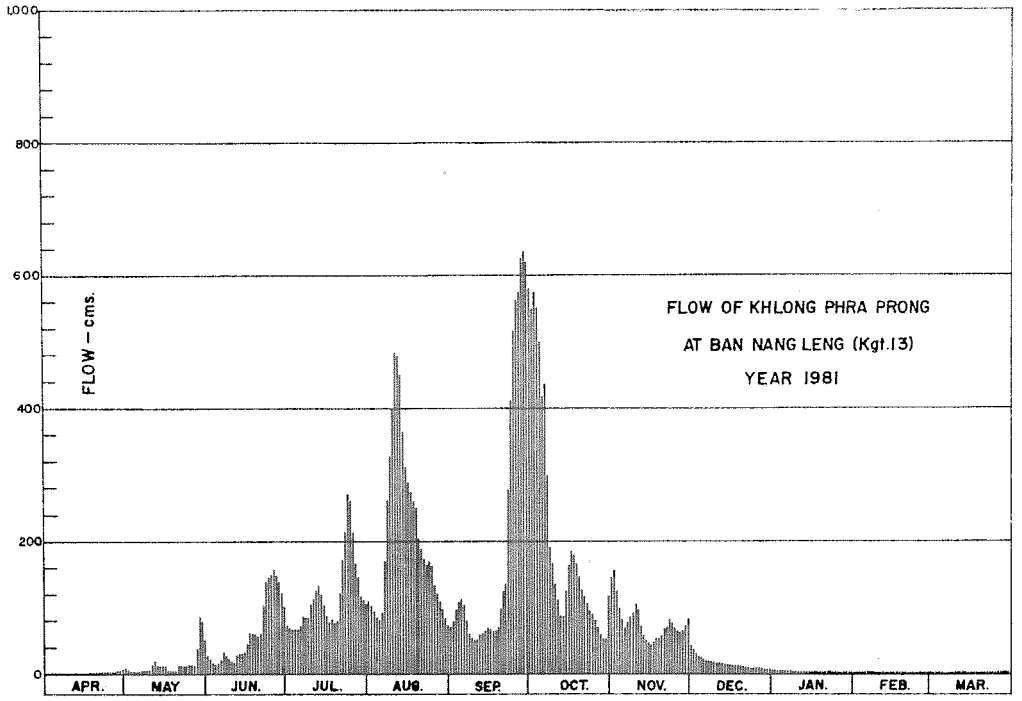
KHLONG PHRA PRONG AT BAN NANG LENG, PRACHIN BURI (KGT.13)

LOCATION	LAT. 13°-58'-04" N., LONG. 101°-44'-20" E., ON LEFT BANK ABOUT 40 METERS UPSTREAM FROM THE HIGHWAY BRIDGE AT BAN NANG LENG, AMPHOE KABIN BURI, PRACHIN BURI.
DRAINAGE AREA	5,347 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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
RATED BY FLOAT	-
RATED BY CURRENT METER	1967-1968, 1971-1976
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +10.72 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 126 DISCHARGE MEASUREMENTS MADE DURING 1971-1976.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	2.22	3.28	4.81	5.61	4.69	10.71	6.52	3.76	2.00	1.57	1.48	
2	1.45	2.05	3.02	4.58	5.53	4.91	10.63	6.76	3.49	1.97	1.56	1.47	
3	1.44	1.93	2.78	4.63	5.26	5.29	10.72	6.20	3.30	1.96	1.56	1.47	
4	1.46	1.83	2.53	4.61	5.07	5.70	10.64	5.09	3.16	1.92	1.56	1.47	
5	1.44	1.86	2.46	4.51	4.81	5.74	10.48	4.73	3.02	1.90	1.55	1.47	
6	1.43	1.81	2.93	4.69	5.32	5.34	10.09	4.55	2.87	1.87	1.55	1.47	
7	1.43	1.81	3.52	5.09	7.14	4.76	10.19	4.97	2.84	1.86	1.53	1.47	
8	1.49	1.88	3.18	5.13	8.63	4.32	8.24	5.08	2.76	1.83	1.56	1.49	
9	1.47	2.10	3.01	5.04	9.66	4.07	7.22	5.23	2.69	1.82	1.55	1.50	
10	1.51	1.89	2.72	5.60	10.09	3.96	6.53	5.63	2.64	1.82	1.63	1.50	
11	1.53	2.72	2.64	5.66	10.38	4.16	6.02	5.51	2.62	1.79	1.62	1.48	
12	1.51	2.88	3.34	6.03	10.36	4.42	5.51	4.81	2.58	1.76	1.65	1.46	
13	1.47	2.33	3.37	6.19	10.15	4.40	5.10	4.34	2.56	1.74	1.66	1.44	
14	1.44	2.44	3.44	5.93	9.84	4.47	5.18	4.08	2.50	1.73	1.66	1.43	
15	1.42	2.43	3.43	5.45	9.31	4.62	6.38	3.87	2.48	1.72	1.63	1.42	
16	1.43	2.53	3.93	4.95	9.02	4.57	6.98	3.75	2.46	1.70	1.57	1.41	
17	1.44	2.02	4.51	4.77	8.74	4.52	7.36	4.14	2.45	1.69	1.58	1.40	
18	1.51	1.95	4.44	4.98	8.64	4.60	7.20	4.16	2.39	1.69	1.56	1.41	
19	1.52	1.87	4.40	4.79	8.38	4.65	6.72	4.03	2.36	1.68	1.55	1.40	
20	1.51	1.95	4.26	4.98	7.72	5.30	6.20	4.29	2.35	1.67	1.54	1.39	
21	1.51	2.51	3.99	6.11	7.18	6.09	6.09	4.66	2.31	1.66	1.53	1.38	
22	1.53	2.62	5.43	7.15	6.88	6.83	5.79	4.57	2.25	1.65	1.52	1.37	
23	1.46	2.46	6.36	8.20	6.96	9.08	5.49	5.03	2.23	1.65	1.51	1.37	
24	1.44	2.40	6.53	8.80	7.03	10.16	5.26	4.77	2.20	1.64	1.50	1.36	
25	1.46	2.51	6.61	8.62	6.72	10.53	5.17	4.64	2.15	1.63	1.49	1.35	
26	1.72	2.52	6.80	8.02	6.23	10.70	4.92	4.56	2.20	1.62	1.50	1.39	
27	1.83	2.53	6.59	6.79	5.82	10.78	4.60	4.52	2.16	1.61	1.48	1.40	
28	1.79	4.04	6.39	6.48	5.68	10.89	4.23	4.52	2.11	1.59	1.48	1.38	
29	1.92	5.10	5.97	5.91	5.22	10.92	4.07	4.87	2.07	1.58		1.40	
30	2.11	4.89	5.23	5.47	4.84	10.91	4.07	4.98	2.06	1.58		1.41	
31		3.84		5.72	4.65		5.75		2.05	1.58		1.42	
MEAN	1.54	2.51	4.24	5.80	7.32	6.38	6.89	4.83	2.55	1.74	1.56	1.43	
MAX	2.11	5.10	6.80	8.80	10.38	10.92	10.72	6.76	3.76	2.00	1.66	1.50	10.92
MIN	1.42	1.81	2.46	4.51	4.65	3.96	4.07	3.75	2.05	1.58	1.48	1.35	1.35

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.92 M (MSL), AT 6.00 HOURS, ON SEP 30, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.16 M (MSL), RIVER BED 0.00 M (MSL)
LEFT BANK ELEVATION 10.71 M (MSL)
RIGHT BANK ELEVATION 11.36 M (MSL), DRAINAGE AREA 5347 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	8.30	27.60	72.85	104.40	68.65	571.00	143.90	39.80	5.20	1.85	1.40	
2	1.25	5.85	22.40	64.80	101.20	76.40	548.40	154.70	32.75	4.90	1.80	1.35	
3	1.20	4.50	17.60	66.55	90.40	91.60	574.00	129.50	28.00	4.80	1.80	1.35	
4	1.30	3.50	12.95	65.85	82.80	108.00	551.20	83.60	25.20	4.40	1.80	1.35	
5	1.20	3.80	11.90	62.35	72.85	109.60	507.00	70.05	22.40	4.20	1.75	1.35	
6	1.15	3.30	20.60	68.65	92.80	93.60	417.10	63.75	19.40	3.90	1.75	1.35	
7	1.15	3.30	33.50	83.60	173.00	71.10	437.00	78.80	18.80	3.80	1.65	1.35	
8	1.45	4.00	25.60	85.20	259.10	56.60	233.40	83.20	17.20	3.50	1.80	1.45	
9	1.35	6.50	22.20	81.60	349.80	49.10	177.00	89.20	15.80	3.40	1.75	1.50	
10	1.55	4.10	16.40	104.00	417.10	45.80	144.35	105.20	14.80	3.40	2.18	1.50	
11	1.65	16.40	14.80	106.40	482.20	51.80	121.40	100.40	14.40	3.14	2.12	1.40	
12	1.55	19.60	29.00	121.85	477.40	59.60	100.40	72.85	13.70	2.96	2.30	1.30	
13	1.35	9.95	29.75	129.05	429.00	59.00	84.00	57.20	13.40	2.84	2.36	1.20	
14	1.20	11.60	31.50	117.35	375.00	61.10	87.20	49.40	12.50	2.78	2.36	1.15	
15	1.10	11.45	31.25	98.00	310.90	66.20	137.60	43.10	12.20	2.72	2.18	1.10	
16	1.15	12.95	44.90	78.00	286.60	64.45	165.00	39.50	11.90	2.60	1.85	1.05	
17	1.20	5.46	62.35	71.45	266.80	62.70	184.00	51.20	11.75	2.54	1.90	1.00	
18	1.55	4.70	60.20	79.20	259.80	65.50	176.00	51.80	10.85	2.54	1.80	1.05	
19	1.60	3.90	59.00	72.15	241.80	67.25	152.90	47.90	10.40	2.48	1.75	1.00	
20	1.55	4.70	54.80	79.20	203.10	92.00	129.50	55.70	10.25	2.42	1.70	0.96	
21	1.55	12.65	46.70	125.45	175.00	124.55	124.55	67.60	9.65	2.36	1.65	0.92	
22	1.65	14.40	97.20	173.50	160.10	157.85	111.60	64.45	8.75	2.30	1.60	0.88	
23	1.30	11.90	136.70	231.00	164.00	291.40	99.60	81.20	9.45	2.30	1.55	0.88	
24	1.20	11.00	144.35	271.00	167.50	431.00	90.40	71.45	8.00	2.24	1.50	0.84	
25	1.30	12.65	147.95	258.40	152.90	520.40	86.80	66.90	7.25	2.18	1.45	0.80	
26	2.72	12.80	156.50	220.20	130.85	568.00	76.80	64.10	8.00	2.12	1.50	0.96	
27	3.50	12.95	147.05	156.05	112.80	592.00	65.50	62.70	7.40	2.06	1.40	1.00	
28	3.14	48.20	138.05	142.10	107.20	625.90	53.90	62.70	6.65	1.95	1.40	0.92	
29	4.40	84.00	119.15	116.45	88.80	636.20	49.10	74.95	6.11	1.90		1.00	
30	6.65	75.65	89.20	98.80	73.90	632.60	49.10	79.20	5.98	1.90		1.05	
31		42.20		108.80	67.25		110.00		5.85	1.90		1.10	
TOTAL	54.41	486.26	1851.15	3609.85	6476.35	5999.95	6415.79	2266.20	437.59	91.73	50.50	35.51	27775.26 CMSDAY
MEAN	1.81	15.69	61.78	116.45	208.91	200.00	206.96	75.54	14.12	2.96	1.80	1.15	76.10 CMS
MAX	6.65	84.00	156.50	271.00	482.20	636.20	574.00	154.70	39.80	5.20	2.36	1.50	636.20 CMS
MIN	1.10	3.30	11.90	62.35	67.25	45.80	49.10	39.50	5.85	1.90	1.40	0.80	0.80 CMS
RUNOFF	4.701	42.013	159.939	311.891	559.556	518.395	554.324	195.799	37.808	7.925	4.363	3.068	2399.782 MCM

MOMENTARY PEAK 636.20 CMS, AT 10.92 M (MSL), AT 6.00 HOURS, ON SEP 30, 1981

RUNOFF YIELD 14.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 118.98 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +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 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1966 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 16 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

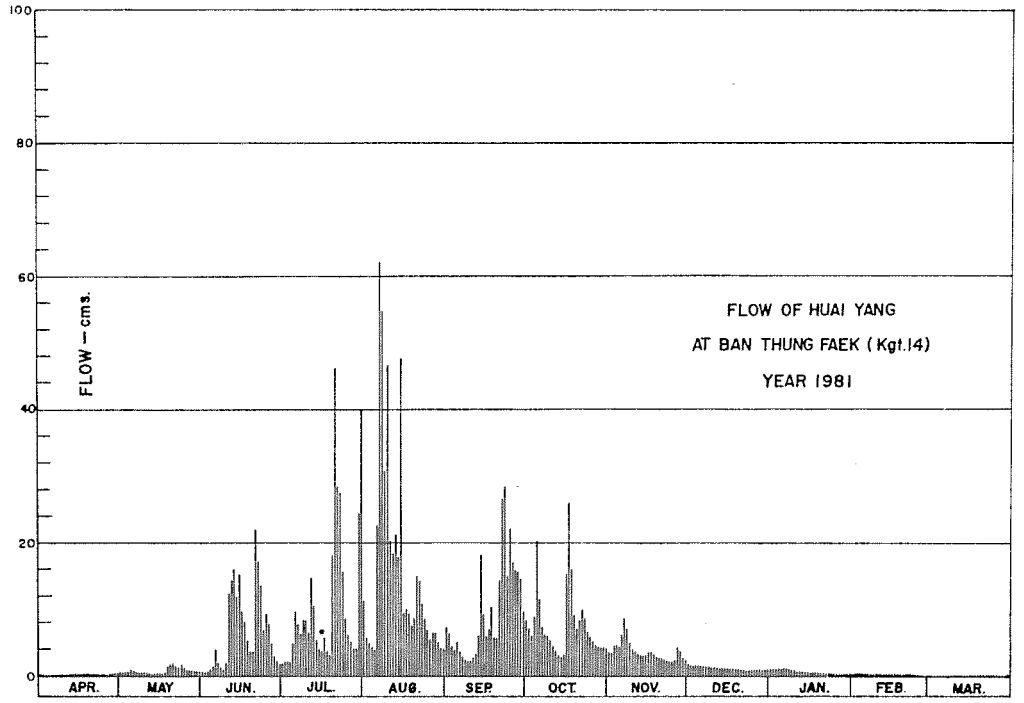
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	34.80	34.97	34.95	35.21	35.60	35.57	35.56	35.34	35.18	35.06	34.87	34.82	
2	34.79	34.93	34.91	35.23	35.50	35.53	35.50	35.34	35.17	35.07	34.87	34.83	
3	34.81	34.90	34.90	35.24	35.44	35.38	35.49	35.43	35.16	35.07	34.87	34.83	
4	34.82	34.92	34.95	35.19	35.40	35.33	35.75	35.39	35.15	35.07	34.87	34.84	
5	34.82	35.07	35.16	35.44	35.37	35.45	36.13	35.38	35.15	35.07	34.87	34.84	
6	34.81	34.97	35.38	35.70	36.03	35.33	35.73	35.52	35.15	35.07	34.87	34.85	
7	34.80	34.97	35.21	35.59	37.25	35.27	35.56	35.65	35.13	35.07	34.87	34.83	
8	34.80	34.93	35.09	35.52	37.05	35.24	35.50	35.54	35.13	35.07	34.87	34.83	
9	34.81	34.94	35.03	35.63	36.11	35.22	35.50	35.43	35.13	35.07	34.87	34.82	
10	34.80	34.98	35.16	35.63	36.89	35.23	35.49	35.38	35.13	35.03	34.88	34.82	
11	34.79	34.91	35.83	35.48	36.11	35.31	35.40	35.35	35.13	34.97	34.87	34.81	
12	34.79	34.91	35.92	36.00	36.04	35.31	35.36	35.33	35.12	34.96	34.91	34.80	
13	34.79	34.87	35.98	35.70	36.16	35.49	35.33	35.32	35.12	34.95	34.88	34.79	
14	34.80	34.86	35.73	35.47	36.03	36.05	35.32	35.32	35.12	34.95	34.88	34.79	
15	34.82	34.84	35.94	35.39	36.91	35.72	35.31	35.32	35.10	34.94	34.88	34.78	
16	34.84	34.83	35.71	35.33	35.68	35.45	36.08	35.36	35.09	34.93	34.88	34.78	
17	34.83	34.82	35.58	35.50	35.72	35.52	36.32	35.37	35.08	34.93	34.87	34.78	
18	34.82	34.89	35.51	35.34	35.67	35.78	35.85	35.34	35.07	34.92	34.87	34.78	
19	34.81	35.17	35.38	35.30	35.55	35.46	35.62	35.30	35.07	34.91	34.87	34.77	
20	34.81	35.19	35.29	36.12	35.62	35.46	35.51	35.30	35.06	34.91	34.88	34.77	
21	34.83	35.21	36.19	36.88	35.93	35.74	35.63	35.30	35.06	34.91	34.89	34.77	
22	34.85	35.11	36.03	36.19	35.88	36.33	35.71	35.27	35.05	34.91	34.88	34.76	
23	34.82	35.07	35.87	36.37	35.73	36.39	35.59	35.25	35.05	34.91	34.84	34.75	
24	34.81	35.21	35.56	35.91	35.62	35.85	35.53	35.23	35.05	34.91	34.83	34.75	
25	34.81	35.12	35.68	35.64	35.51	36.20	35.49	35.23	35.05	34.91	34.83	34.75	
26	34.85	35.04	35.61	35.53	35.45	36.02	35.44	35.29	35.05	34.90	34.84	34.74	
27	34.97	35.02	35.43	35.47	35.53	35.96	35.42	35.40	35.05	34.90	34.83	34.74	
28	34.96	35.03	35.32	35.39	35.53	35.95	35.41	35.35	35.05	34.89	34.83	34.74	
29	34.94	34.98	35.25	35.38	35.42	35.90	35.41	35.26	35.05	34.88		34.80	
30	34.93	34.96	35.20	36.31	35.37	35.68	35.40	35.21	35.05	34.88		34.88	
31		35.00		36.72	35.35		35.37		35.05	34.88		34.95	
MEAN	34.83	34.99	35.46	35.67	35.85	35.64	35.57	35.35	35.10	34.96	34.87	34.80	
MAX	34.97	35.21	36.19	36.88	37.25	36.39	36.32	35.65	35.18	35.07	34.91	34.95	37.25
MIN	34.79	34.82	34.90	35.19	35.35	35.22	35.31	35.21	35.05	34.88	34.83	34.74	34.74

ANNUAL MAX MOMENTARY GAGE HEIGHT 37.47 M (MSL), AT 8.00 HOURS, ON AUG 8, 1981

ZERO GAGE AT BOTTOM ELEVATION 34.61 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION M (MSL)

RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 336 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.51	0.45	1.79	7.60	7.06	6.88	3.20	1.56	0.84	0.24	0.14	
2	0.09	0.39	0.33	1.97	5.80	6.34	5.80	3.20	1.49	0.88	0.24	0.16	
3	0.12	0.30	0.30	2.06	4.78	3.80	5.63	4.61	1.42	0.88	0.24	0.16	
4	0.14	0.36	0.45	1.63	4.10	3.05	10.65	3.95	1.35	0.88	0.24	0.18	
5	0.14	0.88	1.42	4.78	3.65	4.95	20.24	3.80	1.35	0.88	0.24	0.18	
6	0.12	0.51	3.80	9.60	17.51	3.05	10.23	6.16	1.35	0.88	0.24	0.20	
7	0.10	0.51	1.79	7.42	61.90	2.33	6.88	8.60	1.21	0.88	0.24	0.16	
8	0.10	0.39	0.96	6.16	53.20	2.06	5.80	6.52	1.21	0.88	0.24	0.16	
9	0.12	0.42	0.72	8.20	19.68	1.88	5.80	4.61	1.21	0.88	0.24	0.14	
10	0.10	0.54	1.42	8.20	46.50	1.97	5.63	3.80	1.21	0.72	0.26	0.14	
11	0.09	0.33	12.42	5.46	19.68	2.75	4.10	3.35	1.21	0.51	0.24	0.12	
12	0.09	0.33	14.62	16.70	17.78	2.75	3.50	3.05	1.14	0.48	0.33	0.10	
13	0.09	0.24	16.18	9.60	21.08	5.63	3.05	2.90	1.14	0.45	0.26	0.09	
14	0.10	0.22	10.23	5.29	17.51	18.05	2.90	2.90	1.14	0.45	0.26	0.09	
15	0.14	0.18	15.14	3.95	47.32	10.02	2.75	2.90	1.00	0.42	0.26	0.08	
16	0.18	0.16	9.81	3.05	9.20	4.95	18.86	3.50	0.96	0.39	0.26	0.08	
17	0.16	0.14	7.24	5.80	10.02	6.16	25.94	3.65	0.92	0.39	0.24	0.08	
18	0.14	0.28	5.98	3.20	9.00	11.28	12.90	3.20	0.88	0.36	0.24	0.08	
19	0.12	1.49	3.80	2.60	6.70	5.12	8.00	2.60	0.88	0.33	0.24	0.07	
20	0.12	1.63	2.51	19.96	8.00	5.12	5.98	2.60	0.84	0.33	0.26	0.07	
21	0.16	1.79	21.92	46.10	14.88	10.44	8.20	2.60	0.84	0.33	0.28	0.07	
22	0.20	1.07	17.51	21.92	13.62	26.26	9.81	2.33	0.80	0.33	0.26	0.06	
23	0.14	0.88	13.38	27.54	10.23	28.18	7.42	2.15	0.80	0.33	0.18	0.05	
24	0.12	1.79	6.88	14.36	8.00	12.90	6.34	1.97	0.80	0.33	0.16	0.05	
25	0.12	1.14	9.20	8.40	5.98	22.20	5.63	1.97	0.80	0.33	0.16	0.05	
26	0.20	0.76	7.80	6.34	4.95	17.24	4.78	2.51	0.80	0.30	0.18	0.04	
27	0.51	0.68	4.61	5.29	6.34	15.66	4.44	4.10	0.80	0.30	0.16	0.04	
28	0.48	0.72	2.90	3.95	6.34	15.40	4.27	3.35	0.80	0.28	0.16	0.04	
29	0.42	0.54	2.15	3.80	4.44	14.10	4.27	2.24	0.80	0.26		0.10	
30	0.39	0.48	1.70	25.62	3.65	9.20	4.10	1.79	0.80	0.26		0.26	
31		0.60		39.78	3.35		3.65		0.80	0.26		0.45	
TOTAL	5.10	20.26	197.62	330.52	472.79	279.90	234.43	104.11	32.31	16.02	6.55	3.69	1703.30 CMSDAY
MEAN	0.17	0.65	6.59	10.66	15.25	9.33	7.56	3.47	1.04	0.52	0.23	0.12	4.67 CMS
MAX	0.51	1.79	21.92	46.10	61.90	28.18	25.94	8.60	1.56	0.88	0.33	0.45	61.90 CMS
MIN	0.09	0.14	0.30	1.63	3.35	1.88	2.75	1.79	0.80	0.26	0.16	0.04	0.04 CMS
RUNOFF	0.441	1.750	17.074	28.557	40.849	24.183	20.255	8.995	2.792	1.384	0.566	0.319	147.165 MCM

MOMENTARY PEAK 71.92 CMS, AT 37.47 M (MSL), AT 8.00 HOURS, ON AUG 8, 1981

RUNOFF YIELD 13.89 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 214.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 15 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

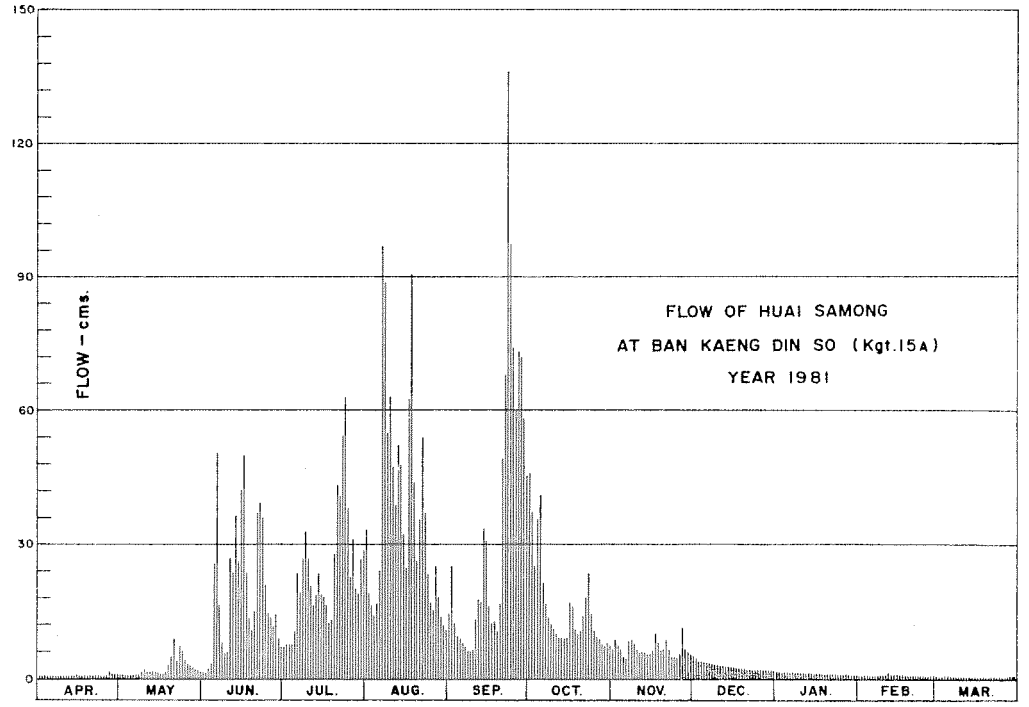
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 89 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.65	0.78	1.38	2.54	1.80	2.95	1.32	1.21	0.83	0.69	0.64	
2	0.60	0.65	0.76	1.41	2.00	2.23	2.65	1.48	1.17	0.83	0.69	0.64	
3	0.60	0.65	0.92	1.41	1.86	1.67	2.25	1.40	1.11	0.82	0.69	0.64	
4	0.59	0.63	1.01	1.41	1.76	1.53	2.46	1.32	1.10	0.81	0.69	0.66	
5	0.59	0.63	2.27	1.57	1.86	1.49	2.80	1.22	1.10	0.81	0.69	0.65	
6	0.60	0.66	3.09	2.16	2.20	1.44	2.12	1.15	1.10	0.80	0.69	0.65	
7	0.60	0.67	1.88	1.98	4.38	1.38	1.89	1.43	1.07	0.80	0.68	0.64	
8	0.57	0.70	1.42	2.14	4.16	1.33	1.76	1.48	1.03	0.79	0.68	0.63	
9	0.57	0.84	1.25	2.51	3.22	1.30	1.68	1.43	1.01	0.79	0.70	0.63	
10	0.57	0.87	1.28	2.31	3.46	1.31	1.62	1.32	1.01	0.78	0.68	0.62	
11	0.56	0.83	2.33	2.08	3.00	1.70	1.55	1.29	1.00	0.77	0.68	0.61	
12	0.56	0.78	2.17	1.86	2.73	1.92	1.51	1.29	1.00	0.77	0.81	0.61	
13	0.57	0.83	2.64	1.96	3.14	1.90	1.48	1.28	0.98	0.77	0.77	0.61	
14	0.62	0.78	2.24	2.18	3.00	2.54	1.48	1.27	0.95	0.76	0.74	0.61	
15	0.69	0.75	2.70	1.97	2.49	2.43	1.47	1.25	0.95	0.76	0.72	0.60	
16	0.62	0.73	3.08	1.95	2.21	1.86	1.89	1.31	0.94	0.75	0.71	0.60	
17	0.61	0.71	2.19	1.87	3.43	1.67	1.86	1.56	0.93	0.75	0.69	0.59	
18	0.60	0.70	1.72	1.67	4.22	1.71	1.60	1.44	0.92	0.75	0.68	0.59	
19	0.60	0.93	1.61	1.71	2.85	1.59	1.55	1.33	0.92	0.74	0.67	0.59	
20	0.59	1.18	1.57	2.33	2.27	1.88	1.57	1.35	0.90	0.74	0.67	0.59	
21	0.59	1.49	2.66	2.86	2.61	3.05	1.76	1.48	0.90	0.74	0.67	0.59	
22	0.59	1.12	2.84	2.77	3.09	3.60	1.94	1.34	0.88	0.74	0.67	0.59	
23	0.59	1.26	2.63	3.21	2.67	5.37	2.19	1.24	0.88	0.73	0.66	0.58	
24	0.58	1.37	2.07	3.45	2.14	4.38	1.77	1.21	0.87	0.73	0.66	0.58	
25	0.56	1.11	1.80	2.67	1.94	3.78	1.59	1.18	0.87	0.72	0.66	0.58	
26	0.58	1.02	1.73	2.12	1.81	3.38	1.51	1.28	0.87	0.71	0.66	0.58	
27	0.77	0.98	1.62	2.46	2.24	3.75	1.46	1.58	0.87	0.71	0.66	0.60	
28	0.70	0.93	1.78	2.05	1.92	3.70	1.41	1.37	0.86	0.71	0.65	0.70	
29	0.68	0.88	1.47	1.96	1.77	3.32	1.39	1.29	0.86	0.70		0.64	
30	0.67	0.85	1.37	2.29	1.65	2.93	1.44	1.24	0.85	0.70		0.63	
31		0.81		2.37	1.59		1.38		0.83	0.69		0.62	
MEAN	0.61	0.87	1.90	2.13	2.59	2.40	1.81	1.34	0.97	0.76	0.69	0.62	
MAX	0.77	1.49	3.09	3.45	4.38	5.37	2.95	1.58	1.21	0.83	0.81	0.70	5.37
MIN	0.56	0.63	0.76	1.38	1.59	1.30	1.38	1.15	0.83	0.69	0.65	0.58	0.56

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.76 M (A.D), AT 14.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.59 M (A.D)
LEFT BANK ELEVATION 11.98 M (A.D)
RIGHT BANK ELEVATION 9.83 M (A.D), DRAINAGE AREA 530 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.65	1.38	7.30	33.36	14.90	46.00	6.40	5.02	1.71	0.85	0.60	
2	0.40	0.65	1.26	7.76	19.30	24.78	36.60	8.88	4.60	1.71	0.85	0.60	
3	0.40	0.65	2.36	7.76	16.22	12.33	25.30	7.60	4.00	1.64	0.85	0.60	
4	0.36	0.55	3.09	7.76	14.10	9.74	31.04	6.40	3.90	1.57	0.85	0.70	
5	0.36	0.55	25.82	10.46	16.22	9.04	41.20	5.14	3.90	1.57	0.85	0.65	
6	0.40	0.70	50.48	23.04	24.00	8.24	22.08	4.40	3.90	1.50	0.85	0.65	
7	0.40	0.75	16.66	18.86	96.69	7.30	16.88	8.08	3.63	1.50	0.80	0.60	
8	0.28	0.90	7.92	22.56	88.29	6.55	14.10	8.88	3.27	1.44	0.80	0.55	
9	0.28	1.78	5.50	32.49	54.78	6.10	12.52	8.08	3.09	1.44	0.90	0.55	
10	0.28	1.99	5.86	26.87	63.00	6.25	11.38	6.40	3.09	1.38	0.80	0.50	
11	0.24	1.71	27.41	21.14	47.60	12.90	10.10	5.98	3.00	1.32	0.80	0.45	
12	0.24	1.38	23.28	16.22	39.03	17.54	9.38	5.98	3.00	1.32	1.57	0.45	
13	0.28	1.71	36.30	18.42	52.12	17.10	8.88	5.86	2.84	1.32	1.32	0.45	
14	0.50	1.38	25.04	23.52	47.60	33.36	8.88	5.74	2.60	1.26	1.14	0.45	
15	0.85	1.20	38.10	18.64	31.91	30.17	8.72	5.50	2.60	1.26	1.02	0.40	
16	0.50	1.08	50.16	18.20	24.26	16.22	16.88	6.25	2.52	1.20	0.96	0.40	
17	0.45	0.96	23.76	16.44	61.95	12.33	16.22	10.28	2.44	1.20	0.85	0.36	
18	0.40	0.90	13.30	12.33	90.58	13.10	11.00	8.24	2.36	1.20	0.80	0.36	
19	0.40	2.44	11.19	13.10	42.80	10.82	10.10	6.55	2.36	1.14	0.75	0.36	
20	0.36	4.70	10.46	27.41	25.82	16.66	10.46	6.85	2.20	1.14	0.75	0.36	
21	0.36	9.04	36.90	43.12	35.40	49.20	14.10	8.88	2.20	1.14	0.75	0.36	
22	0.36	4.10	42.48	40.27	50.48	67.90	17.98	6.70	2.06	1.14	0.75	0.36	
23	0.36	5.62	36.00	54.44	37.20	136.10	23.76	5.38	2.06	1.08	0.70	0.32	
24	0.32	7.15	20.91	62.65	22.56	96.69	14.30	5.02	1.99	1.08	0.70	0.32	
25	0.24	4.00	14.90	37.20	17.98	74.28	10.82	4.70	1.99	1.02	0.70	0.32	
26	0.32	3.18	13.50	22.08	15.12	60.22	9.38	5.86	1.99	0.96	0.70	0.32	
27	1.32	2.84	11.38	31.04	25.04	73.20	8.56	10.64	1.99	0.96	0.70	0.40	
28	0.90	2.44	14.50	20.45	17.54	71.40	7.76	7.15	1.92	0.96	0.65	0.90	
29	0.80	2.06	8.72	15.42	14.30	58.18	7.45	5.98	1.92	0.90		0.60	
30	0.75	1.85	7.15	26.34	11.95	45.36	8.24	5.38	1.85	0.90		0.55	
31		1.57		28.49	10.82		7.30		1.71	0.85		0.50	
TOTAL	13.51	70.48	585.77	734.78	1148.02	1017.96	497.37	203.18	86.00	38.81	24.01	14.99	4434.87 CMSDAY
MEAN	0.45	2.27	19.53	23.70	37.03	33.93	16.04	6.77	2.77	1.25	0.86	0.48	12.15 CMS
MAX	1.32	9.04	50.48	62.65	96.69	136.10	46.00	10.64	5.02	1.71	1.57	0.90	136.10 CMS
MIN	0.24	0.55	1.26	7.30	10.82	6.10	7.30	4.40	1.71	0.85	0.65	0.32	0.24 CMS
RUNOFF	1.167	6.089	50.610	63.485	99.189	87.952	42.973	17.555	7.430	3.353	2.074	1.295	383.173 MCM

MOMENTARY PEAK 152.69 CMS, AT 5.76 M (A.D), AT 14.00 HOURS, ON SEP 23, 1981
RUNOFF YIELD 22.93 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 288.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PRACHIN BURI RIVER BASIN

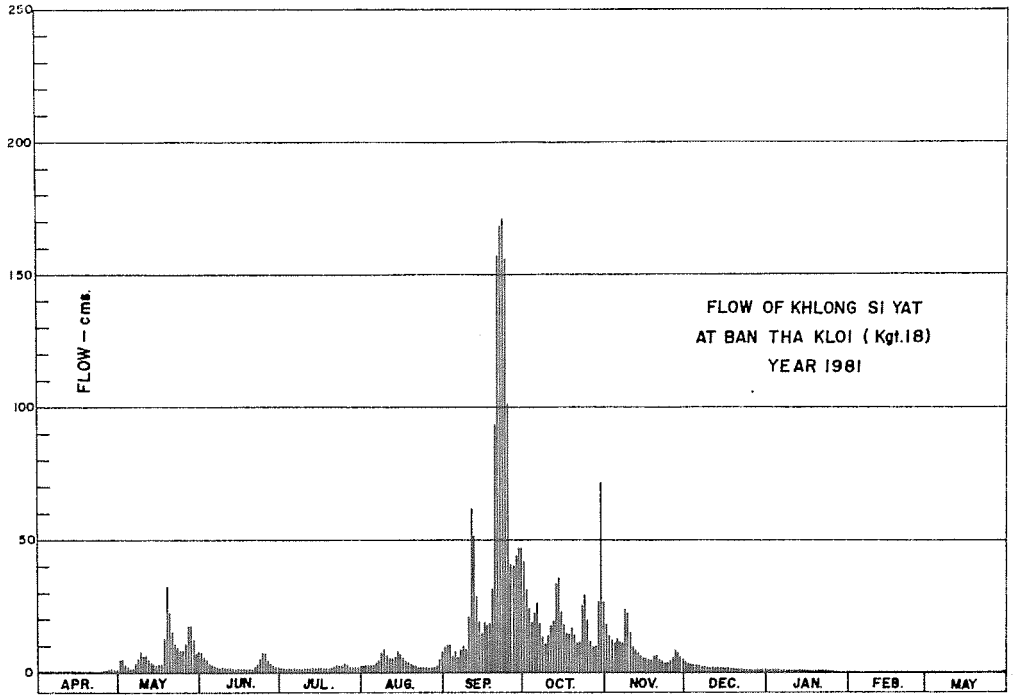
KHLONG SI YAT AT BAN THA KLOI, CHACHOENGSAO (KGT.18)

LOCATION	LAT. 13°-28'-29" N., LONG. 101°-37'-44" E., ON RIGHT BANK AT BAN THA KLOI, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.
DRAINAGE AREA	951 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	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	1969 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1969 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.99 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 113 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.67	1.58	2.05	1.17	1.41	2.25	4.01	2.84	1.57	0.92	0.77	0.77	
2	0.67	1.70	1.76	1.11	1.39	2.17	3.46	2.52	1.48	0.91	0.77	0.77	
3	0.67	1.25	1.55	1.08	1.31	2.30	3.00	2.50	1.42	0.90	0.77	0.77	
4	0.67	1.11	1.44	1.05	1.29	1.94	2.89	2.40	1.38	0.90	0.77	0.77	
5	0.66	1.02	1.34	1.09	1.30	2.08	3.10	2.46	1.34	0.89	0.77	0.77	
6	0.66	0.99	1.28	1.09	1.53	1.68	3.37	2.47	1.30	0.88	0.76	0.77	
7	0.65	1.42	1.25	1.09	1.65	2.16	2.90	2.29	1.27	0.88	0.76	0.73	
8	0.65	1.70	1.18	1.09	1.93	2.29	2.53	3.24	1.24	0.87	0.76	0.73	
9	0.65	2.05	1.14	1.11	2.08	2.06	2.40	3.14	1.22	0.86	0.76	0.73	
10	0.64	1.78	1.09	1.11	1.93	3.10	2.47	2.56	1.20	0.86	0.76	0.73	
11	0.63	1.90	1.07	1.12	1.74	4.84	2.84	2.25	1.19	0.85	0.75	0.73	
12	0.70	1.71	1.05	1.17	1.61	4.63	2.89	2.07	1.18	0.85	0.76	0.74	
13	0.72	1.49	1.02	1.19	1.76	3.31	3.73	1.94	1.15	0.85	0.76	0.73	
14	0.73	1.34	1.01	1.16	2.08	2.81	3.83	1.85	1.13	0.85	0.75	0.73	
15	0.72	1.22	0.99	1.14	1.98	2.51	3.19	1.83	1.12	0.84	0.75	0.72	
16	0.71	1.45	0.99	1.09	1.75	2.93	2.85	1.81	1.10	0.84	0.75	0.72	
17	0.71	1.52	1.00	1.05	1.60	2.89	2.68	1.73	1.08	0.83	0.75	0.72	
18	0.70	2.75	1.01	1.14	1.49	2.94	2.57	1.71	1.06	0.83	0.75	0.71	
19	0.69	3.65	1.00	1.12	1.42	3.60	2.78	1.94	1.04	0.82	0.75	0.71	
20	0.69	3.09	0.98	1.11	1.35	6.16	2.58	1.88	1.03	0.82	0.74	0.71	
21	0.68	2.59	1.01	1.14	1.28	6.95	2.31	1.72	1.01	0.81	0.74	0.71	
22	0.69	2.28	1.51	1.40	1.24	7.14	2.30	1.61	1.00	0.81	0.74	0.70	
23	0.69	2.01	1.68	1.36	1.18	7.18	3.30	1.54	0.99	0.81	0.74	0.70	
24	0.72	1.98	1.98	1.26	1.14	6.72	3.55	1.50	0.98	0.80	0.74	0.70	
25	0.82	2.12	2.05	1.50	1.14	4.70	2.86	1.69	0.97	0.80	0.74	0.70	
26	0.78	2.33	1.64	1.36	1.22	3.99	2.43	1.88	0.96	0.79	0.74	0.70	
27	0.99	2.35	1.47	1.24	1.22	4.01	2.21	2.13	0.95	0.79	0.74	0.70	
28	0.87	2.83	1.32	1.23	1.25	4.22	2.06	1.99	0.95	0.79	0.74	0.72	
29	0.88	2.29	1.28	1.18	1.39	4.32	3.37	1.87	0.94	0.78		0.71	
30	0.85	1.96	1.21	1.19	1.79	4.29	5.13	1.68	0.93	0.78		0.71	
31		1.80		1.25	1.97		3.39		0.93	0.78		0.70	
MEAN	0.72	1.93	1.31	1.17	1.53	3.74	3.00	2.10	1.13	0.84	0.75	0.73	
MAX	0.99	3.65	2.05	1.50	2.08	7.18	5.13	3.24	1.57	0.92	0.77	0.77	7.18
MIN	0.63	0.99	0.98	1.05	1.14	1.68	2.06	1.50	0.93	0.78	0.74	0.70	0.63

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.18 M (A.D), AT 18.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.14 M (A.D)
LEFT BANK ELEVATION 7.42 M (A.D)
RIGHT BANK ELEVATION 6.97 M (A.D), DRAINAGE AREA 951 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	3.86	7.80	1.68	2.76	9.85	39.48	17.40	3.79	0.76	0.31	0.31	
2	0.07	4.70	5.18	1.44	2.65	9.00	27.98	13.06	3.18	0.73	0.31	0.31	
3	0.07	2.00	3.65	1.32	2.25	10.40	20.00	12.80	2.82	0.70	0.31	0.31	
4	0.07	1.44	2.94	1.20	2.16	6.76	18.15	11.60	2.60	0.70	0.31	0.31	
5	0.06	1.08	2.40	1.36	2.20	8.10	21.70	12.32	2.40	0.67	0.31	0.31	
6	0.06	0.97	2.12	1.36	3.51	4.56	26.36	12.44	2.20	0.64	0.28	0.31	
7	0.05	2.82	2.00	1.36	4.35	8.90	18.30	10.29	2.08	0.64	0.28	0.19	
8	0.05	4.70	1.72	1.36	6.67	10.29	13.19	24.08	1.96	0.61	0.28	0.19	
9	0.05	7.80	1.56	1.44	8.10	7.90	11.60	22.38	1.88	0.58	0.28	0.19	
10	0.04	5.34	1.36	1.44	6.67	21.70	12.44	13.58	1.80	0.58	0.28	0.19	
11	0.03	6.40	1.28	1.48	5.02	61.85	17.40	9.85	1.76	0.55	0.25	0.19	
12	0.10	4.78	1.20	1.68	4.07	55.57	18.15	8.00	1.72	0.55	0.28	0.22	
13	0.16	3.24	1.08	1.76	5.18	25.28	33.23	6.76	1.60	0.55	0.28	0.19	
14	0.19	2.40	1.04	1.64	8.10	16.95	35.38	5.95	1.52	0.55	0.25	0.19	
15	0.16	1.88	0.97	1.56	7.12	12.93	23.23	5.77	1.48	0.52	0.25	0.16	
16	0.13	3.00	0.97	1.36	5.10	18.81	17.55	5.59	1.40	0.52	0.25	0.16	
17	0.13	3.44	1.00	1.20	4.00	18.15	15.14	4.94	1.32	0.49	0.25	0.16	
18	0.10	16.10	1.04	1.56	3.24	18.98	13.71	4.78	1.24	0.49	0.25	0.13	
19	0.09	31.60	1.00	1.48	2.82	30.60	16.52	6.76	1.16	0.46	0.25	0.13	
20	0.09	21.53	0.94	1.44	2.45	113.32	13.84	6.22	1.12	0.46	0.22	0.13	
21	0.08	13.97	1.04	1.56	2.12	156.50	10.52	4.86	1.04	0.43	0.22	0.13	
22	0.09	10.18	3.37	2.70	1.96	168.60	10.40	4.07	1.00	0.43	0.22	0.10	
23	0.09	7.40	4.56	2.50	1.72	171.20	25.10	3.58	0.97	0.43	0.22	0.10	
24	0.16	7.12	7.12	2.04	1.56	143.04	29.65	3.30	0.94	0.40	0.22	0.10	
25	0.46	8.50	7.80	3.30	1.56	57.60	17.70	4.63	0.91	0.40	0.22	0.10	
26	0.34	10.76	4.28	2.50	1.88	39.02	11.96	6.22	0.88	0.37	0.22	0.10	
27	0.97	17.55	3.12	1.96	1.88	39.48	9.41	8.60	0.85	0.37	0.22	0.10	
28	0.61	17.25	2.30	1.92	2.00	44.32	7.90	7.21	0.85	0.37	0.22	0.16	
29	0.64	10.29	2.12	1.72	2.65	46.94	26.36	6.13	0.82	0.34		0.13	
30	0.55	6.94	1.84	1.76	5.42	46.14	71.64	4.56	0.79	0.34		0.13	
31		5.50		2.00	7.03		26.72		0.79	0.34		0.10	
TOTAL	5.76	244.54	78.80	53.08	118.20	1382.74	660.71	267.73	48.87	15.97	7.24	5.53	2889.17 CMSDAY
MEAN	0.19	7.89	2.63	1.71	3.81	46.09	21.31	8.92	1.58	0.52	0.26	0.18	7.92 CMS
MAX	0.97	31.60	7.80	3.30	8.10	171.20	71.64	24.08	3.79	0.76	0.31	0.31	171.20 CMS
MIN	0.03	0.97	0.94	1.20	1.56	4.56	7.90	3.30	0.79	0.34	0.22	0.10	0.03 CMS
RUNOFF	0.498	21.128	6.808	4.586	10.212	119.469	57.085	23.132	4.222	1.380	0.626	0.478	249.624 MCM

MOMENTARY PEAK 171.20 CMS, AT 7.18 M (A.D), AT 18.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 8.32 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 180.02 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PRACHIN BURI RIVER BASIN

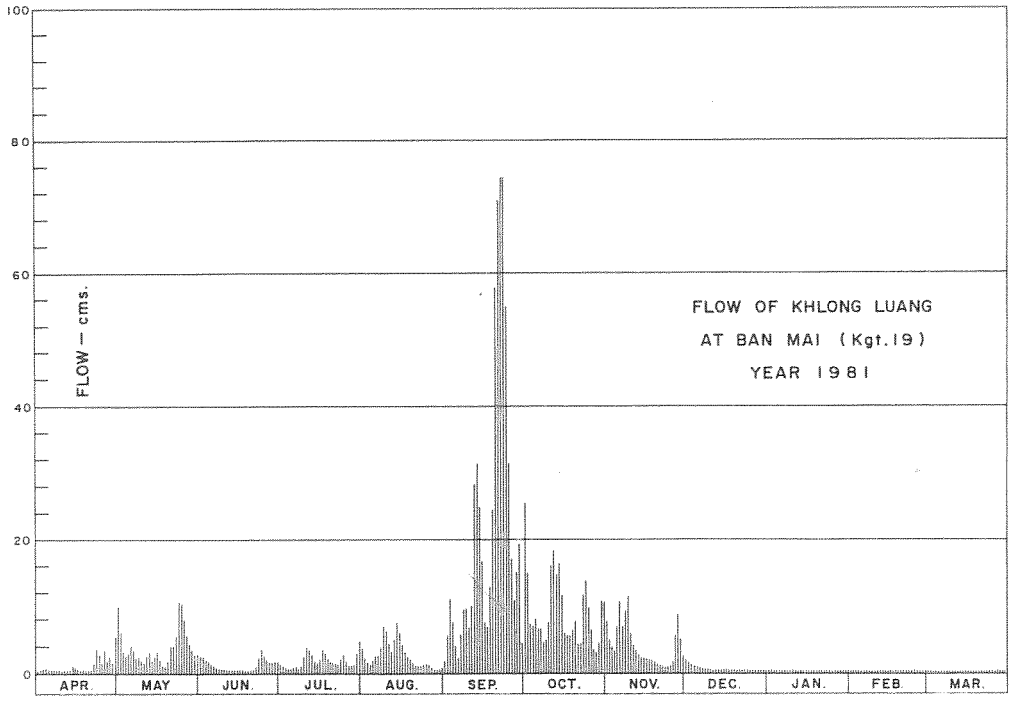
KHLONG LUANG AT BAN MAI, CHON BURI (KGT.19)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +25.33 M.(M.S.L.), RECORD ARE CHANNEL FLOW ONLY.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	20.74	23.49	21.70	21.24	22.14	21.26	25.04	23.19	21.56	20.60	20.48	20.46	
2	20.68	22.36	21.66	21.06	21.66	22.56	24.19	22.44	21.43	20.56	20.48	20.46	
3	20.92	21.71	21.45	20.96	21.44	23.67	22.95	22.07	21.27	20.56	20.48	20.52	
4	21.02	21.73	21.42	20.91	21.25	23.03	22.79	21.89	21.19	20.56	20.46	20.45	
5	20.82	21.82	21.25	20.88	21.46	21.98	23.13	23.07	21.13	20.56	20.50	20.43	
6	20.72	22.24	21.14	21.05	21.69	21.66	22.81	23.64	21.10	20.57	20.47	20.65	
7	20.65	21.96	21.08	21.21	21.72	22.20	22.82	22.91	21.05	20.57	20.55	20.59	
8	20.62	21.56	21.06	21.07	22.13	23.39	22.29	23.47	21.00	20.57	20.50	20.52	
9	20.59	21.68	21.00	21.15	22.89	23.43	22.47	23.73	20.96	20.55	20.48	20.46	
10	20.57	21.63	20.94	21.86	22.66	22.90	23.03	22.92	20.94	20.54	20.46	20.49	
11	20.58	21.40	20.89	22.11	22.22	23.86	24.39	22.22	20.91	20.56	20.46	20.56	
12	20.57	21.85	20.85	22.04	21.85	25.15	24.58	21.94	20.89	20.57	20.50	20.49	
13	20.58	21.92	20.82	21.66	22.48	25.28	24.19	21.79	20.86	20.56	20.56	20.47	
14	20.85	21.53	20.80	21.39	22.99	24.89	24.38	21.69	20.85	20.56	20.52	20.46	
15	21.15	21.91	20.77	21.35	22.68	24.18	23.75	21.62	20.81	20.55	20.58	20.45	
16	21.01	21.96	20.77	21.57	22.15	22.97	22.69	21.60	20.79	20.55	20.59	20.45	
17	20.80	21.54	20.75	22.09	21.85	22.92	22.51	21.54	20.78	20.56	20.54	20.49	
18	20.71	21.26	20.73	21.86	21.73	24.04	22.55	21.49	20.76	20.55	20.53	20.49	
19	20.66	21.11	20.73	21.51	21.57	25.29	22.75	21.44	20.76	20.53	20.52	20.45	
20	20.63	21.27	20.73	21.39	21.35	25.62	23.00	21.38	20.74	20.52	20.48	20.44	
21	20.64	22.19	20.76	21.50	21.23	25.66	22.27	21.29	20.71	20.52	20.46	20.43	
22	21.32	22.21	20.80	21.28	21.20	25.68	22.22	21.20	20.71	20.52	20.54	20.42	
23	22.09	22.65	21.49	21.27	21.11	25.68	23.54	21.16	20.70	20.51	20.48	20.41	
24	21.79	23.61	21.97	21.42	21.15	25.49	24.11	21.16	20.69	20.51	20.46	20.40	
25	21.31	23.55	21.75	21.81	21.33	25.16	23.59	21.22	20.67	20.50	20.46	20.40	
26	22.00	22.92	21.49	21.51	21.28	24.43	22.84	21.39	20.64	20.50	20.46	20.42	
27	21.38	22.39	21.47	21.22	21.11	23.61	22.05	22.75	20.65	20.49	20.51	20.41	
28	21.77	22.20	21.35	21.10	20.99	24.30	21.92	23.30	20.63	20.50	20.46	20.40	
29	21.43	21.87	21.45	21.32	20.74	24.68	22.38	22.44	20.64	20.49		20.40	
30	22.51	21.73	21.48	21.82	20.93	21.92	23.60	21.82	20.62	20.50		20.40	
31		21.81		22.42	21.21		23.62		20.60	20.50		20.40	
MEAN	21.04	22.03	21.15	21.45	21.68	23.90	23.18	22.13	20.87	20.54	20.50	20.46	
MAX	22.51	23.61	21.97	22.42	22.99	25.68	25.04	23.73	21.56	20.60	20.59	20.65	25.68
MIN	20.57	21.11	20.73	20.88	20.74	21.26	21.92	21.16	20.60	20.49	20.46	20.40	20.40

ANNUAL MAX MOMENTARY GAGE HEIGHT 25.71 M (MSL), AT 9.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 20.12 M (MSL), RIVER BED M (MSL)
LEFT BANK ELEVATION 25.32 M (MSL)
RIGHT BANK ELEVATION 25.45 M (MSL), DRAINAGE AREA 535 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	9.84	2.30	1.00	3.74	1.05	25.00	8.25	1.88	0.10	0.04	0.03	
2	0.14	4.59	2.18	0.62	2.18	5.39	14.57	4.91	1.49	0.08	0.04	0.03	
3	0.38	2.33	1.55	0.44	1.52	10.92	7.05	3.49	1.07	0.08	0.04	0.06	
4	0.54	2.39	1.46	0.36	1.02	7.45	6.31	2.87	0.88	0.08	0.03	0.02	
5	0.27	2.66	1.02	0.33	1.58	3.18	7.95	7.65	0.76	0.08	0.05	0.01	
6	0.17	4.11	0.78	0.60	2.27	2.18	6.39	10.74	0.70	0.08	0.03	0.13	
7	0.13	3.11	0.66	0.92	2.36	3.95	6.44	6.85	0.60	0.08	0.07	0.09	
8	0.11	1.88	0.62	0.64	3.70	9.29	4.31	9.73	0.50	0.08	0.05	0.06	
9	0.09	2.24	0.50	0.80	6.75	9.51	5.03	11.29	0.44	0.07	0.04	0.03	
10	0.08	2.09	0.41	2.78	5.79	6.80	7.45	6.90	0.41	0.07	0.03	0.05	
11	0.09	1.40	0.34	3.63	4.03	12.17	16.31	4.03	0.36	0.08	0.03	0.08	
12	0.08	2.75	0.30	3.39	2.75	27.40	18.20	3.04	0.34	0.08	0.05	0.05	
13	0.09	2.97	0.27	2.18	5.07	31.00	14.57	2.57	0.31	0.08	0.08	0.03	
14	0.30	1.79	0.25	1.37	7.25	22.35	16.22	2.27	0.30	0.08	0.06	0.03	
15	0.80	2.93	0.22	1.28	5.87	14.49	11.42	2.06	0.26	0.07	0.09	0.02	
16	0.52	3.11	0.22	1.91	3.78	7.15	5.91	2.00	0.24	0.07	0.09	0.02	
17	0.25	1.82	0.20	3.56	2.75	6.90	5.19	1.82	0.23	0.08	0.07	0.05	
18	0.16	1.05	0.18	2.78	2.39	13.43	5.35	1.67	0.21	0.07	0.07	0.05	
19	0.13	0.72	0.18	1.73	1.91	31.30	6.15	1.52	0.21	0.07	0.06	0.02	
20	0.12	1.07	0.18	1.37	1.28	62.80	7.30	1.35	0.19	0.06	0.04	0.02	
21	0.12	3.92	0.21	1.70	0.97	70.40	4.23	1.12	0.16	0.06	0.03	0.01	
22	1.20	3.99	0.25	1.10	0.90	74.20	4.03	0.90	0.16	0.06	0.07	0.01	
23	3.56	5.75	1.67	1.07	0.72	74.20	10.14	0.82	0.15	0.06	0.04	0.00	
24	2.57	10.56	3.14	1.46	0.80	43.67	13.93	0.82	0.15	0.06	0.03	0.00	
25	1.18	10.20	2.45	2.63	1.23	27.64	10.44	0.95	0.14	0.05	0.03	0.00	
26	3.25	6.90	1.67	1.73	1.10	16.70	6.53	1.37	0.12	0.05	0.03	0.01	
27	1.35	4.71	1.61	0.95	0.72	10.56	3.42	6.15	0.13	0.05	0.06	0.00	
28	2.51	3.95	1.28	0.70	0.48	15.50	2.97	8.80	0.12	0.05	0.03	0.00	
29	1.49	2.81	1.55	1.20	0.19	19.36	4.67	4.91	0.12	0.05		0.00	
30	5.19	2.39	1.64	2.66	0.39	2.97	10.50	2.66	0.11	0.05		0.00	
31		2.63		4.83	0.92		10.62		0.10	0.05		0.00	
TOTAL	27.06	112.66	29.29	51.72	76.41	643.91	278.60	123.51	12.84	2.13	1.38	0.91	1360.42 CMSDAY
MEAN	0.90	3.63	0.98	1.67	2.46	21.46	8.99	4.12	0.41	0.07	0.05	0.03	3.73 CMS
MAX	5.19	10.56	3.14	4.83	7.25	74.20	25.00	11.29	1.88	0.10	0.09	0.13	74.20 CMS
MIN	0.08	0.72	0.18	0.33	0.19	1.05	2.97	0.82	0.10	0.05	0.03	0.00	0.00 CMS
RUNOFF	2.338	9.734	2.531	4.469	6.602	55.634	24.071	10.671	1.109	0.184	0.119	0.079	117.540 MCM

MOMENTARY PEAK 81.00 CMS, AT 25.71 M (MSL), AT 9.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 6.97 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 151.40 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE OFFICE OF KGT.24 STATION.

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 WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +7.71 M.(A.D.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 64 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY PRACHANTAKHAM DAM.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

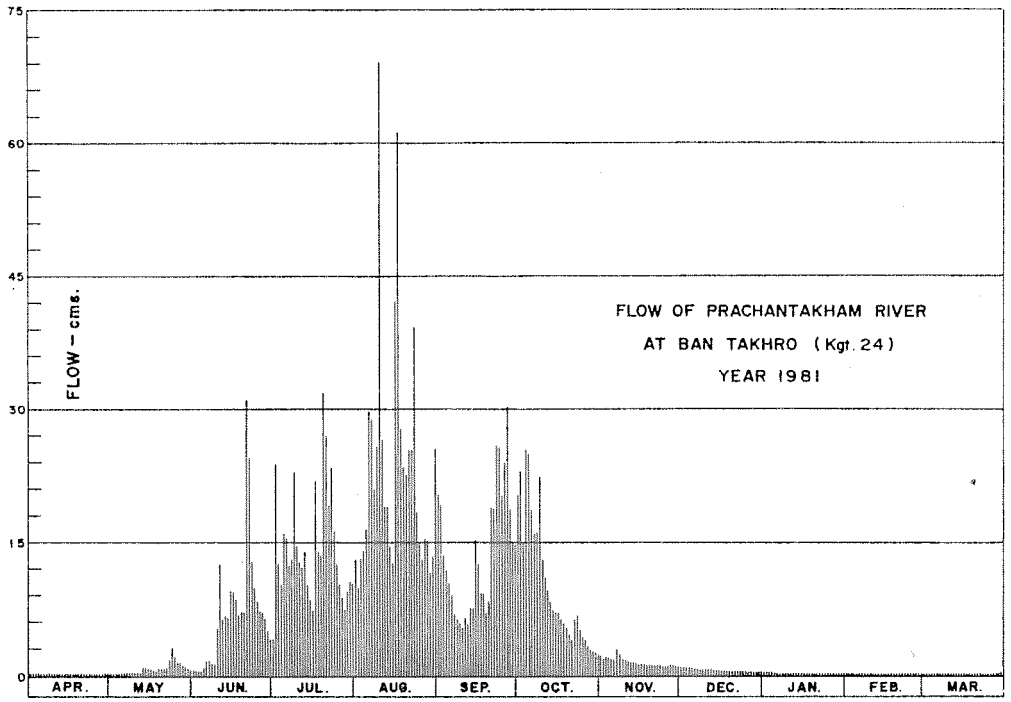
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.64	0.64	0.88	1.57	2.31	2.84	2.83	1.29	1.02	0.86	0.76	0.76	
2	0.63	0.65	0.88	3.05	2.06	2.76	3.01	1.26	1.02	0.85	0.76	0.76	
3	0.63	0.65	0.88	2.26	2.33	2.37	2.45	1.31	1.01	0.84	0.76	0.75	
4	0.64	0.66	0.89	2.08	2.39	2.22	3.15	1.27	1.00	0.84	0.76	0.75	
5	0.61	0.72	0.96	2.53	2.58	2.12	3.13	1.24	1.00	0.83	0.76	0.75	
6	0.60	0.78	1.18	2.49	3.40	2.01	2.74	1.24	0.98	0.82	0.76	0.74	
7	0.60	0.80	1.19	2.27	3.35	1.87	2.53	1.39	0.97	0.82	0.76	0.74	
8	0.61	0.79	1.13	2.33	2.88	1.79	2.54	1.30	0.96	0.82	0.76	0.74	
9	0.61	0.78	1.10	3.00	3.17	1.72	2.97	1.24	0.95	0.82	0.76	0.74	
10	0.60	0.79	1.24	2.35	5.22	1.68	2.37	1.21	0.95	0.82	0.75	0.74	
11	0.60	0.80	2.28	2.28	3.21	1.80	2.16	1.19	0.94	0.82	0.75	0.74	
12	0.61	0.79	1.79	2.25	2.74	1.71	2.05	1.17	0.94	0.81	0.75	0.74	
13	0.60	0.79	1.82	2.39	2.73	1.90	1.96	1.16	0.93	0.80	0.75	0.74	
14	0.62	1.02	1.80	2.07	2.43	1.89	1.88	1.15	0.92	0.80	0.75	0.74	
15	0.61	0.98	2.03	1.95	2.29	2.48	1.85	1.14	0.92	0.79	0.75	0.74	
16	0.61	0.95	2.03	1.88	3.17	2.28	1.85	1.13	0.92	0.79	0.76	0.74	
17	0.61	0.90	1.97	2.94	4.89	2.02	1.79	1.12	0.92	0.79	0.76	0.74	
18	0.61	0.86	1.82	2.38	3.29	2.02	1.75	1.11	0.91	0.79	0.76	0.74	
19	0.64	0.97	1.86	2.35	3.04	1.85	1.69	1.10	0.90	0.78	0.76	0.74	
20	0.64	0.98	1.86	3.51	2.93	1.95	1.61	1.10	0.90	0.78	0.76	0.74	
21	0.65	0.98	3.47	3.24	3.14	2.74	1.56	1.12	0.90	0.78	0.76	0.74	
22	0.65	0.99	3.09	2.75	3.15	2.73	1.77	1.09	0.90	0.78	0.76	0.74	
23	0.64	1.24	2.31	3.03	3.91	3.18	1.84	1.08	0.90	0.78	0.76	0.74	
24	0.64	0.43	2.07	2.57	2.77	3.16	1.67	1.07	0.89	0.78	0.76	0.74	
25	0.64	0.27	1.96	2.30	2.48	2.82	1.58	1.06	0.89	0.78	0.76	0.74	
26	0.65	1.13	1.87	2.11	2.29	3.05	1.51	1.06	0.88	0.77	0.76	0.76	
27	0.64	1.13	1.86	1.98	2.50	3.43	1.45	1.12	0.88	0.77	0.76	0.78	
28	0.65	1.03	1.79	1.89	2.48	2.73	1.40	1.08	0.87	0.77	0.76	0.80	
29	0.65	1.02	1.65	2.04	2.20	2.48	1.38	1.06	0.87	0.76		0.82	
30	0.64	0.96	1.55	2.13	2.34	2.41	1.36	1.05	0.86	0.76		0.84	
31		0.93		2.11	3.18		1.32		0.86	0.76		0.92	
MEAN	0.63	0.85	1.71	2.39	2.93	2.33	2.04	1.16	0.93	0.80	0.76	0.76	
MAX	0.65	1.24	3.47	3.51	5.22	3.43	3.15	1.39	1.02	0.86	0.76	0.92	5.22
MIN	0.60	0.27	0.88	1.57	2.06	1.68	1.32	1.05	0.86	0.76	0.75	0.74	0.27

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.80 M (A.D), AT 23.00 HOURS, ON AUG 9, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.34 M (A.D)

LEFT BANK ELEVATION — 8.17 M (A.D)

RIGHT BANK ELEVATION — 8.29 M (A.D), DRAINAGE AREA — 121 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.04	0.44	4.16	12.93	20.50	20.35	2.14	0.88	0.38	0.16	0.16	
2	0.03	0.05	0.44	23.75	9.68	19.30	23.07	1.96	0.88	0.35	0.16	0.16	
3	0.03	0.05	0.44	12.28	13.19	13.71	14.80	2.26	0.84	0.32	0.16	0.15	
4	0.04	0.06	0.47	9.94	13.97	11.76	25.45	2.02	0.80	0.32	0.16	0.15	
5	0.01	0.12	0.68	15.92	16.62	10.46	25.11	1.84	0.80	0.29	0.16	0.15	
6	0.00	0.18	1.52	15.36	29.70	9.03	19.00	1.84	0.74	0.26	0.16	0.14	
7	0.00	0.20	1.56	12.41	28.85	7.24	15.92	2.74	0.71	0.26	0.16	0.14	
8	0.01	0.19	1.32	13.19	21.10	6.30	16.06	2.20	0.68	0.26	0.16	0.14	
9	0.01	0.18	1.20	22.90	25.79	5.60	22.45	1.84	0.65	0.26	0.16	0.14	
10	0.00	0.19	1.84	13.45	69.10	5.20	13.71	1.66	0.65	0.26	0.15	0.14	
11	0.00	0.20	12.54	12.54	26.47	6.40	10.98	1.56	0.62	0.26	0.15	0.14	
12	0.01	0.19	6.30	12.15	19.00	5.50	9.55	1.48	0.62	0.23	0.15	0.14	
13	0.00	0.19	6.64	13.97	18.85	7.60	8.38	1.44	0.59	0.20	0.15	0.14	
14	0.02	0.88	6.40	9.81	14.52	7.48	7.36	1.40	0.56	0.20	0.15	0.14	
15	0.01	0.74	9.29	8.25	12.67	15.22	7.00	1.36	0.56	0.19	0.15	0.14	
16	0.01	0.65	9.29	7.36	25.79	12.54	7.00	1.32	0.56	0.19	0.16	0.14	
17	0.01	0.50	8.51	22.00	61.16	9.16	6.30	1.28	0.56	0.19	0.16	0.14	
18	0.01	0.38	6.64	13.84	27.83	9.16	5.90	1.24	0.53	0.19	0.16	0.14	
19	0.04	0.71	7.12	13.45	23.58	7.00	5.30	1.20	0.50	0.18	0.16	0.14	
20	0.04	0.74	7.12	31.69	21.85	8.25	4.50	1.20	0.50	0.18	0.16	0.14	
21	0.05	0.74	30.96	26.98	25.28	19.00	4.08	1.28	0.50	0.18	0.16	0.14	
22	0.05	0.77	24.43	19.15	25.45	18.85	6.10	1.16	0.50	0.18	0.16	0.14	
23	0.04	1.84	12.93	23.41	39.51	25.96	6.88	1.12	0.50	0.18	0.16	0.14	
24	0.04	0.00	9.81	16.48	19.45	25.62	5.10	1.08	0.47	0.18	0.16	0.14	
25	0.04	0.00	8.38	12.80	15.22	20.20	4.24	1.04	0.47	0.18	0.16	0.14	
26	0.05	1.32	7.24	10.33	12.67	23.75	3.68	1.04	0.44	0.17	0.16	0.16	
27	0.04	1.32	7.12	8.64	15.50	30.24	3.20	1.28	0.44	0.17	0.16	0.18	
28	0.05	0.92	6.30	7.48	15.22	18.85	2.80	1.12	0.41	0.17	0.16	0.20	
29	0.05	0.88	4.90	9.42	11.50	15.22	2.68	1.04	0.41	0.16		0.26	
30	0.04	0.68	4.00	10.59	13.32	14.24	2.56	1.00	0.38	0.16		0.32	
31		0.59		10.33	25.96		2.32		0.38	0.16		0.56	
TOTAL	0.77	15.50	205.83	444.03	711.73	409.34	311.83	45.14	18.13	6.86	4.42	5.25	2178.83 CMSDAY
MEAN	0.03	0.50	6.86	14.32	22.96	13.64	10.06	1.50	0.58	0.22	0.16	0.17	5.97 CMS
MAX	0.05	1.84	30.96	31.69	69.10	30.24	25.45	2.74	0.88	0.38	0.16	0.56	69.10 CMS
MIN	0.00	0.00	0.44	4.16	9.68	5.20	2.32	1.00	0.38	0.16	0.15	0.14	0.00 CMS
RUNOFF	0.067	1.339	17.784	38.364	61.493	35.367	26.942	3.900	1.566	0.593	0.382	0.454	188.251 MCM

MOMENTARY PEAK 173.00 CMS, AT 8.80 M (A.D), AT 23.00 HOURS, ON AUG 9, 1981

RUNOFF YIELD 49.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1429.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 ABOUT 200 METERS FROM THE GAGE OBSERVER'S HOUSE AT BAN CHAM PA NGAM, AMPHOE SANAM CHAI KHET, CHACHOENGSAO.

DRAINAGE AREA — 243 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 63 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

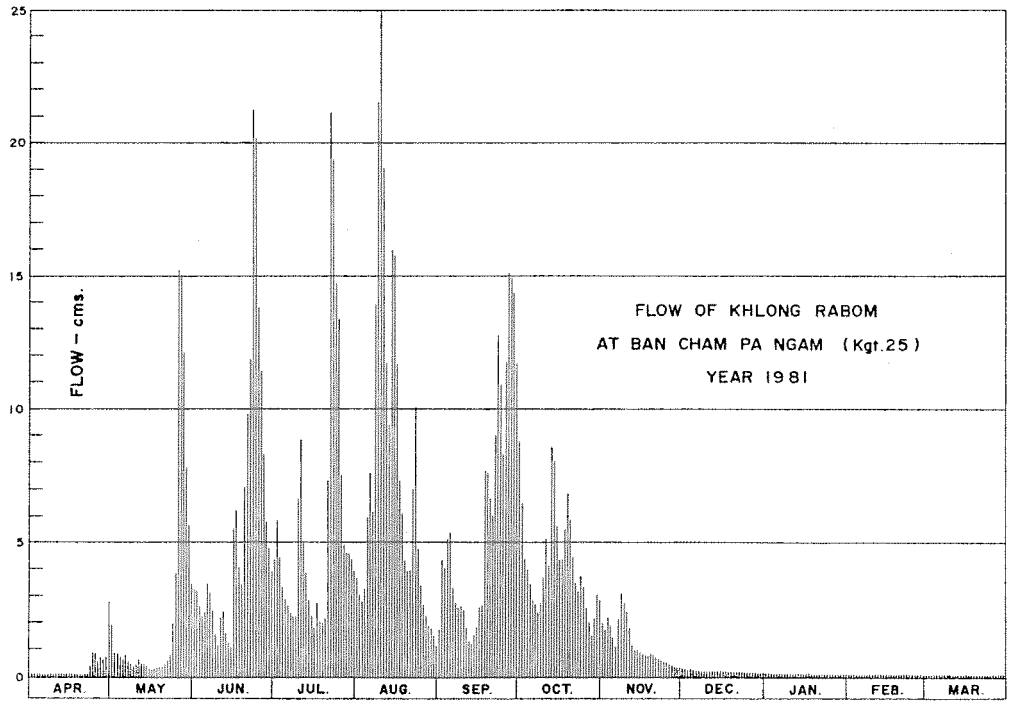
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	1.23	1.62	1.90	1.75	1.20	2.70	1.26	0.61	0.43	0.39	0.39	
2	0.35	0.93	1.60	2.19	1.58	1.89	2.30	1.19	0.60	0.43	0.39	0.39	
3	0.35	0.93	1.43	1.91	1.47	1.83	1.90	1.29	0.58	0.42	0.39	0.39	
4	0.35	0.85	1.29	1.64	1.72	2.05	1.81	1.22	0.57	0.42	0.39	0.39	
5	0.34	0.82	1.35	1.50	2.33	2.09	1.67	1.14	0.57	0.42	0.39	0.39	
6	0.34	0.88	1.68	1.42	2.50	1.64	1.51	1.05	0.56	0.41	0.39	0.39	
7	0.33	0.73	1.57	1.33	2.25	1.49	1.44	1.27	0.55	0.41	0.39	0.39	
8	0.33	0.66	1.36	1.29	3.47	1.38	1.33	1.57	0.53	0.41	0.39	0.39	
9	0.35	0.63	1.18	1.29	4.47	1.42	1.44	1.45	0.53	0.41	0.39	0.39	
10	0.36	0.68	1.06	2.34	4.66	1.38	1.73	1.34	0.52	0.41	0.39	0.38	
11	0.37	0.78	1.27	2.71	4.01	1.21	2.06	1.21	0.52	0.41	0.39	0.37	
12	0.37	0.70	1.34	2.03	3.16	1.12	1.85	1.10	0.52	0.41	0.39	0.37	
13	0.37	0.68	1.17	1.79	2.80	1.06	2.66	1.01	0.51	0.41	0.39	0.37	
14	0.36	0.64	1.08	1.52	3.69	1.15	2.57	1.00	0.50	0.41	0.38	0.37	
15	0.36	0.60	1.02	1.30	3.66	1.22	2.15	0.97	0.50	0.41	0.38	0.37	
16	0.36	0.59	2.12	1.20	2.96	1.40	1.89	0.92	0.50	0.41	0.38	0.37	
17	0.35	0.60	2.25	1.46	2.46	1.41	1.89	0.88	0.49	0.41	0.38	0.37	
18	0.34	0.61	1.82	1.27	2.23	2.51	2.13	0.87	0.49	0.41	0.38	0.37	
19	0.33	0.62	1.70	1.26	1.88	2.50	2.37	0.94	0.49	0.41	0.38	0.37	
20	0.33	0.65	2.40	1.28	1.80	2.33	2.19	0.90	0.48	0.40	0.38	0.37	
21	0.33	0.70	2.87	2.46	1.81	2.22	1.91	0.85	0.47	0.40	0.38	0.37	
22	0.36	0.78	3.17	4.20	2.08	2.63	1.69	0.81	0.47	0.40	0.38	0.37	
23	0.70	0.91	4.21	4.04	2.91	3.29	1.58	0.77	0.46	0.40	0.38	0.37	
24	0.94	1.12	4.11	3.54	1.97	3.01	1.76	0.74	0.46	0.40	0.38	0.37	
25	0.91	1.77	3.44	3.38	1.69	2.62	1.64	0.73	0.45	0.40	0.38	0.37	
26	0.75	3.60	3.11	2.49	1.43	2.43	1.38	0.70	0.45	0.40	0.38	0.37	
27	0.85	3.58	2.62	2.00	1.30	3.59	1.24	0.68	0.44	0.40	0.38	0.37	
28	0.79	3.20	2.21	1.94	1.23	3.57	1.16	0.66	0.44	0.39	0.38	0.37	
29	0.85	2.51	1.97	1.94	1.20	3.50	1.28	0.63	0.43	0.39		0.37	
30	1.47	2.15	1.79	1.91	1.15	3.33	1.57	0.61	0.43	0.39		0.37	
31		1.79		1.80	1.07		1.49		0.43	0.39		0.37	
MEAN	0.50	1.19	1.99	2.01	2.34	2.08	1.82	0.99	0.50	0.41	0.38	0.38	
MAX	1.47	3.60	4.21	4.20	4.66	3.59	2.70	1.57	0.61	0.43	0.39	0.39	4.66
MIN	0.33	0.59	1.02	1.20	1.07	1.06	1.16	0.61	0.43	0.39	0.38	0.37	0.33

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.75 M (A.D), AT 7.00 HOURS, ON AUG 10, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.04 M (A.D)

LEFT BANK ELEVATION — 5.55 M (A.D)

RIGHT BANK ELEVATION — 6.31 M (A.D), DRAINAGE AREA 243 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	1.93	3.26	4.40	3.73	1.77	8.80	2.09	0.32	0.13	0.09	0.09	
2	0.05	0.88	3.20	5.89	3.14	4.35	6.50	1.72	0.30	0.13	0.09	0.09	
3	0.05	0.88	2.69	4.45	2.81	4.08	4.40	2.25	0.28	0.12	0.09	0.09	
4	0.05	0.74	2.25	3.32	3.59	5.15	3.99	1.88	0.27	0.12	0.09	0.09	
5	0.04	0.68	2.45	2.90	6.66	5.35	3.41	1.46	0.27	0.12	0.09	0.09	
6	0.04	0.79	3.44	2.66	7.60	3.32	2.93	1.12	0.26	0.11	0.09	0.09	
7	0.03	0.53	3.11	2.39	6.22	2.87	2.72	2.14	0.25	0.11	0.09	0.09	
8	0.03	0.41	2.48	2.25	14.11	2.54	2.39	3.11	0.23	0.11	0.09	0.09	
9	0.05	0.35	1.67	2.25	24.75	2.66	2.72	2.75	0.23	0.11	0.09	0.09	
10	0.06	0.44	1.15	6.72	27.72	2.54	3.63	2.42	0.22	0.11	0.09	0.08	
11	0.07	0.61	2.14	8.86	19.01	1.83	5.20	1.83	0.22	0.11	0.09	0.07	
12	0.07	0.47	2.42	5.05	11.79	1.35	4.17	1.25	0.22	0.11	0.09	0.07	
13	0.07	0.44	1.62	3.90	9.40	1.15	8.56	1.02	0.21	0.11	0.09	0.07	
14	0.06	0.37	1.20	2.96	15.96	1.51	8.02	1.00	0.20	0.11	0.08	0.07	
15	0.06	0.30	1.05	2.30	15.71	1.88	5.67	0.95	0.20	0.11	0.08	0.07	
16	0.06	0.29	5.51	1.77	10.44	2.60	4.35	0.86	0.20	0.11	0.08	0.07	
17	0.05	0.30	6.22	2.78	7.38	2.63	4.35	0.79	0.19	0.11	0.08	0.07	
18	0.04	0.32	4.04	2.14	6.11	7.66	5.56	0.77	0.19	0.11	0.08	0.07	
19	0.03	0.33	3.50	2.09	4.31	7.60	6.88	0.89	0.19	0.11	0.08	0.07	
20	0.03	0.39	7.05	2.19	3.95	6.66	5.89	0.82	0.18	0.10	0.08	0.07	
21	0.03	0.47	9.85	7.38	3.99	6.06	4.45	0.74	0.17	0.10	0.08	0.07	
22	0.06	0.61	11.86	21.10	5.30	8.38	3.47	0.67	0.17	0.10	0.08	0.07	
23	0.47	0.84	21.22	19.34	10.11	12.74	3.14	0.60	0.16	0.10	0.08	0.07	
24	0.89	1.35	20.11	14.69	4.75	10.76	3.77	0.54	0.16	0.10	0.08	0.07	
25	0.84	3.81	13.87	13.40	3.47	8.32	3.32	0.53	0.15	0.10	0.08	0.07	
26	0.56	15.20	11.42	7.54	2.69	7.21	2.54	0.47	0.15	0.10	0.08	0.07	
27	0.74	15.03	8.32	4.90	2.30	15.11	1.98	0.44	0.14	0.10	0.08	0.07	
28	0.63	12.08	6.00	4.60	1.93	14.94	1.56	0.41	0.14	0.09	0.08	0.07	
29	0.74	7.66	4.75	4.60	1.77	14.35	2.19	0.35	0.13	0.09		0.07	
30	2.81	5.67	3.90	4.45	1.51	13.04	3.11	0.32	0.13	0.09		0.07	
31		3.90		3.95	1.17		2.87		0.13	0.09		0.07	
TOTAL	8.76	78.07	171.75	177.22	243.38	180.41	132.54	36.19	6.26	3.32	2.37	2.36	1042.63 CMSDAY
MEAN	0.29	2.52	5.72	5.72	7.85	6.01	4.28	1.21	0.20	0.11	0.08	0.08	2.86 CMS
MAX	2.81	15.20	21.22	21.10	27.72	15.11	8.80	3.11	0.32	0.13	0.09	0.09	27.72 CMS
MIN	0.03	0.29	1.05	1.77	1.17	1.15	1.56	0.32	0.13	0.09	0.08	0.07	0.03 CMS
RUNOFF	0.757	6.745	14.839	15.312	21.028	15.587	11.451	3.127	0.541	0.287	0.205	0.204	90.083 MCM

MOMENTARY PEAK 29.40 CMS, AT 4.75 M (A.D), AT 7.00 HOURS, ON AUG 10, 1981

RUNOFF YIELD 11.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 120.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 LEFT BANK AT BAN NONG MAPRING, AMPHOE BAN KHAI, RAYONG.

DRAINAGE AREA — 429 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1981 TO MARCH 31, 1982

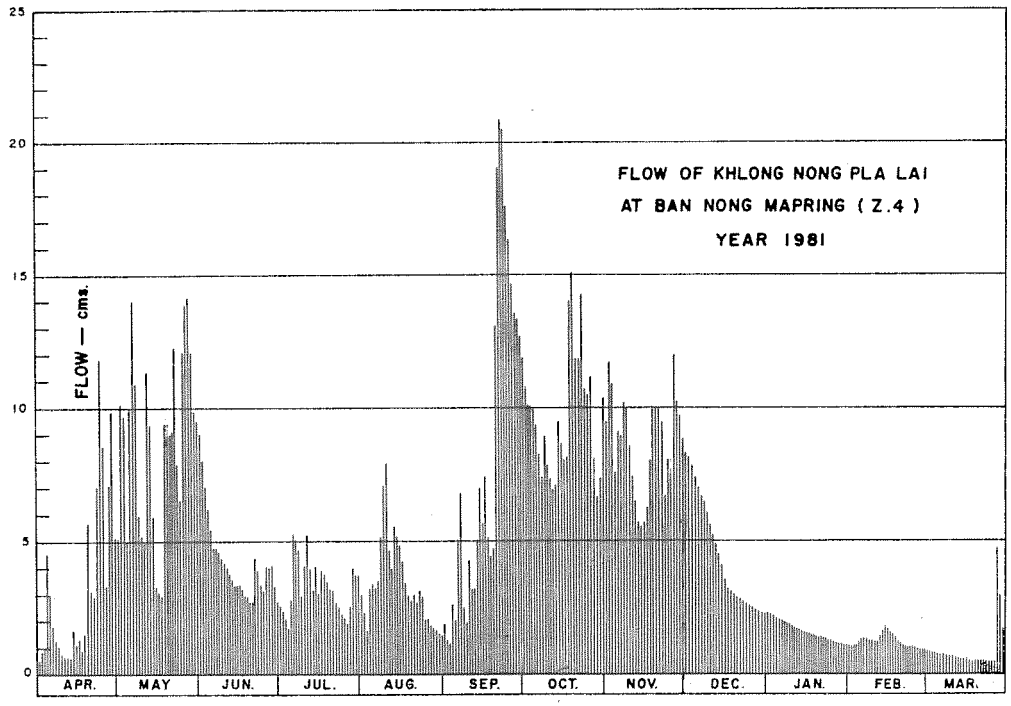
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	1.38	2.10	0.84	0.86	0.67	2.51	2.16	1.98	0.76	0.44	0.38	
2	0.34	2.27	1.83	0.80	0.68	0.57	2.33	2.32	1.96	0.75	0.44	0.37	
3	0.36	2.20	1.73	0.76	0.59	0.46	2.26	2.48	1.92	0.74	0.45	0.36	
4	1.26	1.36	1.59	0.62	0.99	0.85	2.25	2.12	1.84	0.73	0.45	0.35	
5	0.93	2.13	1.44	0.88	1.03	0.70	2.23	1.84	1.78	0.72	0.50	0.34	
6	0.80	2.52	1.30	1.41	1.00	1.34	2.10	2.11	1.74	0.71	0.50	0.33	
7	0.49	2.74	1.32	1.36	1.07	1.70	1.96	2.07	1.70	0.69	0.51	0.32	
8	0.43	1.70	1.28	1.28	1.36	0.88	1.80	2.27	1.66	0.68	0.50	0.31	
9	0.34	1.50	1.22	0.94	1.77	0.68	2.08	2.23	1.60	0.67	0.49	0.30	
10	0.31	1.40	1.20	1.23	1.90	1.21	1.93	2.08	1.50	0.65	0.48	0.29	
11	0.29	1.35	1.16	1.40	1.31	1.00	1.82	1.83	1.42	0.63	0.47	0.29	
12	0.30	2.44	1.11	1.17	1.15	1.00	1.73	1.63	1.36	0.61	0.50	0.28	
13	0.28	2.10	1.09	0.97	1.48	1.31	1.77	1.52	1.31	0.60	0.58	0.28	
14	0.60	1.65	1.02	1.16	1.40	1.73	2.16	1.48	1.23	0.59	0.64	0.27	
15	0.44	1.03	1.02	1.00	1.33	1.50	2.03	1.46	1.18	0.58	0.62	0.27	
16	0.50	0.98	1.03	0.90	1.28	1.80	1.92	1.51	1.06	0.57	0.60	0.26	
17	0.38	0.94	1.01	1.14	1.13	1.49	1.95	1.64	1.00	0.56	0.56	0.26	
18	0.55	1.17	0.93	1.11	0.94	1.23	2.73	2.11	0.98	0.55	0.52	0.25	
19	1.05	2.15	0.92	1.04	0.93	1.29	2.83	2.25	0.96	0.54	0.48	0.25	
20	1.51	2.07	0.84	0.98	0.88	1.84	2.65	2.24	0.94	0.53	0.47	0.25	
21	1.01	2.12	0.90	0.97	0.81	3.06	2.49	2.24	0.90	0.53	0.45	0.25	
22	0.90	2.56	1.22	0.88	0.73	3.26	2.57	2.16	0.89	0.52	0.43	0.25	
23	1.93	1.90	1.08	0.85	0.84	3.24	2.77	1.68	0.87	0.51	0.42	0.25	
24	2.50	1.64	1.01	0.78	0.76	3.03	2.35	1.92	0.85	0.50	0.44	0.24	
25	2.30	2.54	0.97	0.75	0.69	2.98	2.31	1.92	0.84	0.49	0.42	0.24	
26	1.02	2.71	1.16	0.73	0.72	2.81	2.42	1.81	0.83	0.48	0.41	0.25	
27	1.40	2.75	1.15	0.65	0.64	2.72	2.11	2.51	0.82	0.48	0.40	1.00	
28	2.22	2.60	1.18	0.86	0.63	2.69	1.71	2.28	0.79	0.46	0.39	1.31	
29	2.06	2.40	1.00	1.16	0.61	2.67	1.67	2.23	0.78	0.46		0.78	
30	1.37	2.22	0.88	1.10	0.56	2.59	1.80	2.08	0.77	0.46		0.64	
31		2.15		1.10	0.53		2.30		0.77	0.45		0.56	
MEAN	0.94	1.96	1.19	0.99	0.99	1.74	2.18	2.01	1.23	0.59	0.48	0.38	
MAX	2.50	2.75	2.10	1.41	1.90	3.26	2.83	2.51	1.98	0.76	0.64	1.31	3.26
MIN	0.23	0.94	0.84	0.62	0.53	0.46	1.67	1.46	0.77	0.45	0.39	0.24	0.23

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.38 M (A.D), AT 18.00 HOURS, ON SEP 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED M (A.D)

LEFT BANK ELEVATION — 3.60 M (A.D)

RIGHT BANK ELEVATION — 5.18 M (A.D), DRAINAGE AREA 429 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	5.10	9.05	2.96	2.64	1.89	11.88	9.44	8.34	2.24	1.09	0.89	
2	0.77	10.15	7.51	2.40	1.93	1.54	10.56	10.49	8.23	2.20	1.09	0.86	
3	0.83	9.70	6.96	2.24	1.61	1.16	10.09	11.65	8.01	2.16	1.12	0.83	
4	4.50	5.00	6.19	1.72	3.16	2.60	10.02	9.18	7.57	2.12	1.12	0.80	
5	2.92	9.24	5.40	2.72	3.35	2.00	9.89	7.57	7.24	2.08	1.30	0.77	
6	2.40	11.96	4.70	5.25	3.20	4.90	9.05	9.11	7.02	2.04	1.30	0.74	
7	1.26	14.04	4.80	5.00	3.55	6.80	8.23	8.87	6.80	1.96	1.33	0.71	
8	1.05	6.80	4.60	4.60	5.00	2.72	7.35	10.15	6.58	1.93	1.30	0.68	
9	0.77	5.70	4.30	2.96	7.18	1.93	8.93	9.89	6.25	1.89	1.26	0.65	
10	0.68	5.20	4.20	4.35	7.90	4.25	8.06	8.93	5.70	1.82	1.23	0.62	
11	0.62	4.95	4.00	5.20	4.75	3.20	7.46	7.51	5.30	1.75	1.19	0.62	
12	0.65	11.35	3.75	4.05	3.95	3.20	6.96	6.41	5.00	1.68	1.30	0.60	
13	0.60	9.05	3.65	3.08	5.60	4.75	7.18	5.81	4.75	1.65	1.58	0.60	
14	1.65	6.52	3.30	4.00	5.20	6.96	9.44	5.60	4.35	1.61	1.79	0.57	
15	1.09	3.35	3.30	3.20	4.85	5.70	8.63	5.50	4.10	1.58	1.72	0.57	
16	1.30	3.12	3.35	2.80	4.60	7.35	8.01	5.75	3.50	1.54	1.65	0.55	
17	0.89	2.96	3.25	3.90	3.85	5.65	8.17	6.47	3.20	1.51	1.51	0.55	
18	1.47	4.05	2.92	3.75	2.96	4.35	13.93	9.11	3.12	1.47	1.37	0.52	
19	3.45	9.37	2.88	3.40	2.92	4.65	15.06	10.02	3.04	1.44	1.23	0.52	
20	5.75	8.87	2.56	3.12	2.72	7.57	13.10	9.96	2.96	1.40	1.19	0.52	
21	3.25	9.18	2.80	3.08	2.44	17.98	11.72	9.96	2.80	1.40	1.12	0.52	
22	2.80	12.28	4.30	2.72	2.12	20.80	12.36	9.44	2.76	1.37	1.05	0.52	
23	8.06	7.90	3.60	2.60	2.56	20.50	14.37	6.69	2.68	1.33	1.02	0.52	
24	11.80	6.47	3.25	2.32	2.24	17.59	10.70	8.01	2.60	1.30	1.09	0.50	
25	10.35	12.12	3.08	2.20	1.96	16.94	10.42	8.01	2.56	1.26	1.02	0.50	
26	3.30	13.71	4.00	2.12	2.08	14.82	11.20	7.40	2.52	1.23	0.98	0.52	
27	5.20	14.15	3.95	1.82	1.79	13.82	9.11	11.88	2.48	1.23	0.95	3.20	
28	9.83	12.60	4.10	2.64	1.75	13.50	6.85	10.22	2.36	1.16	0.92	4.75	
29	8.81	11.05	3.20	4.00	1.68	13.30	6.63	9.89	2.32	1.16		2.32	
30	5.05	9.83	2.72	3.70	1.51	12.52	7.35	8.93	2.28	1.16		1.79	
31		9.37		3.70	1.40		10.35		2.28	1.12		1.51	
TOTAL	101.57	265.14	125.67	101.20	102.45	244.94	303.06	257.85	138.70	49.79	34.82	29.82	1755.01 CMSDAY
MEAN	3.39	8.55	4.19	3.26	3.30	8.16	9.78	8.59	4.47	1.61	1.24	0.96	4.81 CMS
MAX	11.80	14.15	9.05	5.25	7.90	20.80	15.06	11.88	8.34	2.24	1.79	4.75	20.80 CMS
MIN	0.47	2.96	2.56	1.72	1.40	1.16	6.63	5.50	2.28	1.12	0.92	0.50	0.47 CMS
RUNOFF	8.776	22.908	10.858	8.744	8.852	21.163	26.184	22.278	11.984	4.302	3.008	2.576	151.633 MCM

MOMENTARY PEAK 22.68 CMS, AT 3.38 M (A.D), AT 18.00 HOURS, ON SEP 22, 1981

RUNOFF YIELD 11.21 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 52.87 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

EAST COAST-GULF BASIN

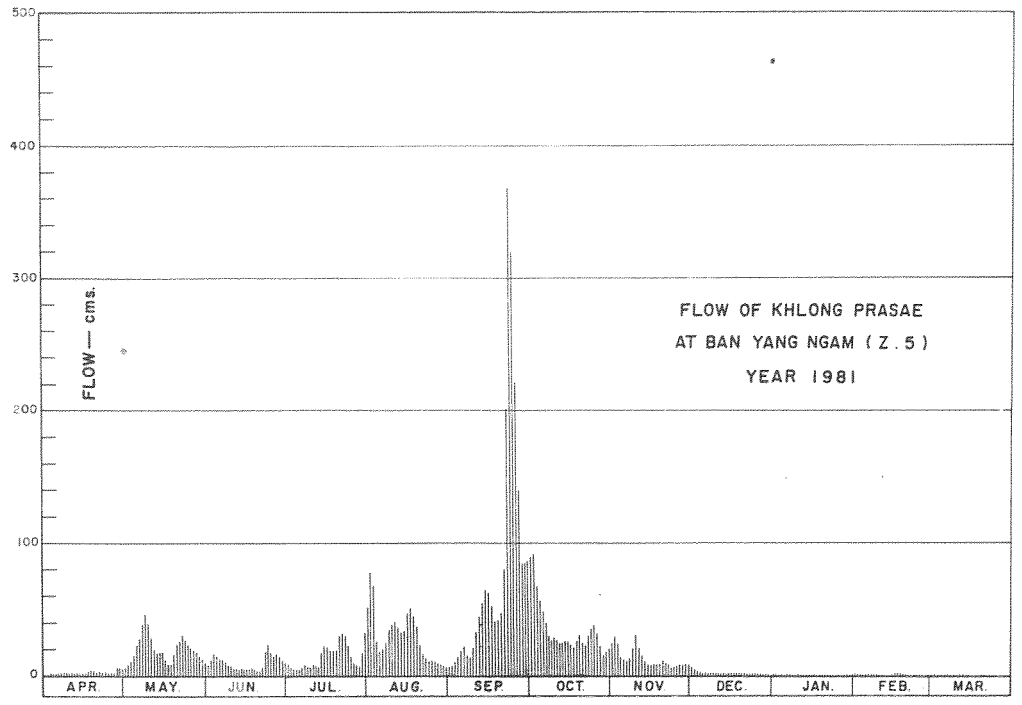
KHLONG PRASAE AT BAN YANG NGAM, RAYONG (Z.5)

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	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	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 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +6.06 M.(A.D.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 48 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.96	1.94	2.06	2.24	5.83	1.97	6.03	3.74	2.05	0.99	0.76	0.73	
2	1.00	2.21	2.49	2.02	5.78	2.15	6.08	3.77	1.82	0.96	0.75	0.69	
3	1.17	2.48	2.88	1.86	4.82	2.43	5.72	3.21	1.70	0.95	0.75	0.69	
4	1.35	2.83	2.85	1.74	3.55	2.78	5.28	2.72	1.62	0.95	0.75	0.70	
5	1.32	3.18	2.66	1.66	2.98	3.12	4.97	2.52	1.56	0.95	0.74	0.70	
6	1.19	3.57	2.46	1.68	2.99	3.36	4.68	2.44	1.52	0.95	0.74	0.70	
7	1.15	4.11	2.45	2.01	3.46	2.97	4.24	2.42	1.49	0.94	0.74	0.71	
8	1.14	4.61	2.28	2.10	3.90	2.73	3.80	2.87	1.44	0.92	0.74	0.68	
9	1.13	4.43	2.05	1.97	4.20	2.99	3.68	3.80	1.38	0.91	0.74	0.67	
10	1.10	4.13	1.89	1.83	4.40	3.62	3.77	3.42	1.36	0.91	0.75	0.69	
11	1.09	3.54	1.82	2.25	4.41	4.29	3.63	3.11	1.34	0.89	0.75	0.71	
12	1.12	2.99	1.74	2.15	4.20	4.80	3.40	2.63	1.33	0.88	0.75	0.70	
13	1.16	3.01	1.70	1.98	3.95	5.15	3.48	2.37	1.32	0.87	0.75	0.69	
14	1.21	2.98	1.75	2.86	4.00	5.45	3.61	2.23	1.29	0.87	0.86	0.70	
15	1.28	2.95	1.64	3.37	4.56	5.41	3.54	2.16	1.25	0.86	0.96	0.70	
16	1.34	2.50	1.68	3.26	4.93	5.23	3.36	2.20	1.24	0.86	1.28	0.69	
17	1.55	2.25	1.94	3.10	4.85	4.70	3.20	2.20	1.22	0.85	1.19	0.69	
18	1.79	2.13	1.98	3.16	4.52	4.33	3.37	2.20	1.20	0.84	0.99	0.70	
19	1.71	2.77	1.78	3.04	4.13	4.46	3.80	2.35	1.16	0.84	0.91	0.71	
20	1.59	3.44	1.63	3.30	3.53	4.94	3.59	2.50	1.13	0.83	0.87	0.71	
21	1.54	3.53	1.66	3.97	3.07	5.82	3.42	2.32	1.12	0.83	0.84	0.70	
22	1.57	3.76	2.30	3.92	2.75	7.13	3.30	2.06	1.10	0.82	0.82	0.69	
23	1.41	3.71	3.16	3.74	2.56	7.69	3.63	1.92	1.08	0.82	0.80	0.69	
24	1.35	3.50	3.41	3.17	2.42	7.59	4.10	1.86	1.07	0.81	0.79	0.69	
25	1.22	3.27	2.97	2.52	2.42	7.36	4.36	1.89	1.05	0.80	0.78	0.69	
26	1.36	3.13	2.75	2.33	2.39	6.89	4.07	2.01	1.04	0.80	0.77	0.69	
27	1.05	3.05	2.88	2.20	2.28	6.44	3.29	2.10	1.02	0.80	0.76	0.70	
28	1.94	2.92	2.75	2.04	2.13	6.02	2.80	2.15	1.01	0.80	0.76	0.70	
29	1.82	2.67	2.50	2.12	2.01	5.99	2.77	2.18	1.00	0.78		0.71	
30	1.74	2.27	2.32	3.32	1.93	5.96	3.08	2.17	0.99	0.78		0.72	
31		2.06		4.68	1.93		3.39		0.98	0.77		0.72	
MEAN	1.34	3.09	2.28	2.63	3.58	4.79	3.92	2.52	1.29	0.87	0.82	0.70	
MAX	1.94	4.61	3.41	4.68	5.83	7.69	6.08	3.80	2.05	0.99	1.28	0.73	7.69
MIN	0.96	1.94	1.63	1.66	1.93	1.97	2.77	1.86	0.98	0.77	0.74	0.67	0.67

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.73 M (A.D), AT 11.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.44 M (A.D)
LEFT BANK ELEVATION 6.05 M (A.D)
RIGHT BANK ELEVATION 4.40 M (A.D), DRAINAGE AREA 1164 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	5.76	6.84	8.50	77.11	6.03	86.72	28.48	6.75	0.67	0.12	0.06	
2	0.70	8.20	11.19	6.48	75.00	7.65	89.60	28.99	4.68	0.58	0.10	0.00	
3	1.21	11.08	15.94	5.04	48.64	10.53	72.90	20.34	3.70	0.55	0.10	0.00	
4	1.80	15.29	15.55	4.02	25.40	14.64	59.56	13.86	3.14	0.55	0.10	0.00	
5	1.68	19.92	13.12	3.42	17.24	19.08	51.94	11.52	2.80	0.55	0.08	0.00	
6	1.27	25.72	10.86	3.56	17.37	22.50	45.68	10.64	2.60	0.55	0.08	0.00	
7	1.15	34.77	10.75	6.39	24.00	17.11	37.02	10.42	2.45	0.52	0.08	0.02	
8	1.12	44.21	8.90	7.20	31.20	13.99	29.50	15.81	2.20	0.46	0.08	0.00	
9	1.09	40.60	6.75	6.03	36.30	17.37	27.48	29.50	1.92	0.43	0.08	0.00	
10	1.00	35.11	5.31	4.77	40.00	26.52	28.99	23.40	1.84	0.43	0.10	0.00	
11	0.97	25.24	4.68	8.60	40.20	37.92	26.68	18.94	1.76	0.38	0.10	0.02	
12	1.06	17.37	4.02	7.65	36.30	48.20	23.10	12.76	1.72	0.36	0.10	0.00	
13	1.18	17.63	3.70	6.12	32.05	56.20	24.30	9.87	1.68	0.34	0.10	0.00	
14	1.33	17.24	4.10	15.68	32.90	64.50	26.36	8.40	1.57	0.34	0.32	0.00	
15	1.54	16.85	3.28	22.65	43.20	63.30	25.24	7.74	1.45	0.32	0.58	0.00	
16	1.76	11.30	3.56	21.04	51.06	58.21	22.50	8.10	1.42	0.32	1.54	0.00	
17	2.75	8.60	5.76	18.80	49.30	46.10	20.20	8.10	1.36	0.30	1.27	0.00	
18	4.42	7.47	6.12	19.64	42.40	38.67	22.65	8.10	1.30	0.28	0.67	0.00	
19	3.78	14.51	4.34	18.02	35.11	41.20	29.50	9.65	1.18	0.28	0.43	0.02	
20	2.95	23.70	3.21	21.60	25.08	51.28	26.04	11.30	1.09	0.26	0.34	0.02	
21	2.70	25.08	3.42	32.39	18.41	76.64	23.40	9.32	1.06	0.26	0.28	0.00	
22	2.85	28.82	9.10	31.54	14.25	206.35	21.60	6.84	1.00	0.24	0.24	0.00	
23	2.05	27.97	19.64	28.48	11.96	366.90	26.68	5.58	0.94	0.24	0.20	0.00	
24	1.80	24.60	23.25	19.78	10.42	331.35	34.60	5.04	0.91	0.22	0.18	0.00	
25	1.36	21.18	17.11	11.52	10.42	261.40	39.24	5.31	0.85	0.20	0.16	0.00	
26	1.84	19.22	14.25	9.43	10.09	165.60	34.09	6.39	0.82	0.20	0.14	0.00	
27	0.85	18.15	15.94	8.10	8.90	115.22	21.46	7.20	0.76	0.20	0.12	0.00	
28	5.76	16.46	14.25	6.66	7.47	86.15	14.90	7.65	0.73	0.20	0.12	0.00	
29	4.68	13.24	11.30	7.38	6.39	84.54	14.51	7.92	0.70	0.16		0.02	
30	4.02	8.80	9.32	21.90	5.67	83.16	18.54	7.83	0.67	0.16		0.04	
31		6.84		45.68	5.67		22.95		0.64	0.14		0.04	
TOTAL	61.25	610.93	285.56	438.07	889.51	2438.31	1047.93	365.00	55.69	10.69	7.81	0.24	6210.98 CMSDAY
MEAN	2.04	19.71	9.52	14.13	28.69	81.28	33.80	12.17	1.80	0.34	0.28	0.01	17.02 CMS
MAX	5.76	44.21	23.25	45.68	77.11	366.90	89.60	29.50	6.75	0.67	1.54	0.06	366.90 CMS
MIN	0.58	5.76	3.21	3.42	5.67	6.03	14.51	5.04	0.64	0.14	0.08	0.00	0.00 CMS
RUNOFF	5.292	52.784	24.672	37.849	76.854	210.670	90.541	31.536	4.812	0.924	0.675	0.021	536.629 MCM

MOMENTARY PEAK 382.65 CMS, AT 7.73 M (A.D), AT 11.00 HOURS, ON SEP 23, 1981
RUNOFF YIELD 14.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 328.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK ABOUT 30 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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, 1981 TO MARCH 31, 1982

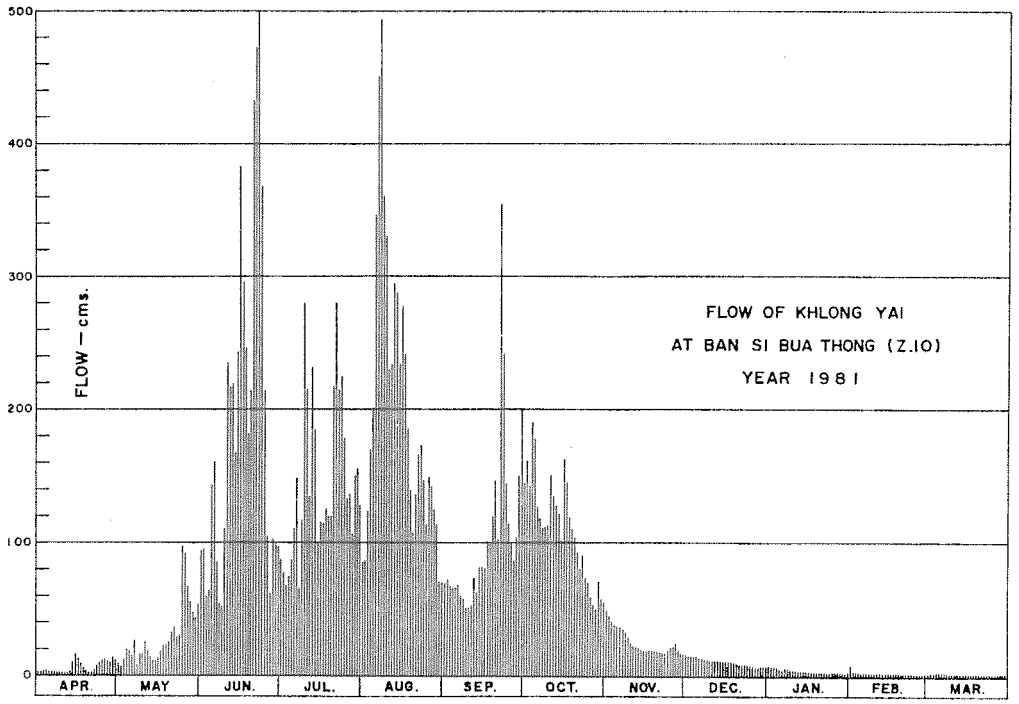
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.02	1.48	3.95	3.78	3.77	3.45	4.58	2.99	1.76	1.42	*******	1.02	
2	1.17	1.41	3.97	3.55	3.83	3.50	5.28	2.83	1.73	1.41	*******	1.02	
3	1.23	1.62	3.07	3.38	4.63	3.38	4.93	2.66	1.73	1.40	*******	1.12	
4	1.22	2.00	3.37	3.51	5.54	3.33	5.81	2.59	1.72	1.39	*******	1.18	
5	1.22	1.98	4.97	3.84	6.06	3.34	5.46	2.57	1.71	1.35	*******	1.21	
6	1.16	1.77	5.27	4.29	8.56	3.41	4.65	2.58	1.70	1.27	*******	1.22	
7	1.13	2.25	3.70	5.05	9.41	3.17	4.50	2.55	1.68	1.38	*******	1.16	
8	1.09	1.20	3.00	3.34	10.02	3.16	4.30	2.52	1.63	1.36	*******	1.11	
9	1.06	1.81	3.00	3.97	8.31	2.97	4.33	2.38	1.62	1.30	*******	1.03	
10	1.03	1.80	4.38	7.31	7.88	2.98	4.47	2.15	1.61	1.35	*******	1.01	
11	0.98	2.22	6.56	5.99	6.47	3.04	5.10	2.09	1.59	1.26	*******	1.09	
12	0.91	1.92	6.25	4.79	6.56	3.53	4.74	2.07	1.59	1.24	*******	1.09	
13	0.86	1.70	6.31	6.50	7.53	3.21	4.65	2.00	1.59	1.30	*******	1.09	
14	1.55	1.59	5.40	4.68	7.42	3.70	4.55	1.97	1.58	1.26	*******	1.03	
15	1.79	1.60	6.87	4.08	6.55	3.68	4.11	1.97	1.56	1.24	*******	1.01	
16	1.73	1.68	8.74	4.41	7.27	3.69	5.30	1.95	1.55	1.22	*******	0.96	
17	1.53	1.94	7.24	4.39	6.54	4.13	4.79	1.94	1.53	1.23	*******	0.94	
18	1.34	2.11	6.39	4.59	5.28	4.05	4.39	1.93	1.51	1.23	*******	0.93	
19	1.23	2.11	5.52	4.46	4.55	4.26	4.26	1.93	1.50	1.22	*******	0.93	
20	1.14	2.15	6.58	4.49	4.27	5.03	4.11	1.91	1.49	1.22	*******	0.94	
21	1.11	2.46	9.35	6.45	4.90	4.12	3.97	1.89	1.44	1.20	*******	0.90	
22	1.18	2.56	9.89	7.28	5.36	8.39	3.65	1.87	1.45	1.18	*******	0.91	
23	1.39	2.22	10.57	6.21	5.51	6.26	3.66	1.87	1.44	1.14	*******	0.90	
24	1.55	2.48	8.46	6.40	4.87	4.94	3.47	1.86	1.45	1.12	*******	0.90	
25	1.57	4.02	5.74	5.48	4.36	4.38	3.42	2.07	1.44	1.17	*******	0.90	
26	1.70	3.82	4.07	4.78	5.05	4.07	3.35	2.06	1.42	1.16	*******	0.89	
27	1.65	3.32	3.18	4.81	4.92	3.80	3.26	2.16	1.34	1.16	*******	0.91	
28	1.51	3.14	4.14	4.25	4.49	4.22	3.20	1.93	1.36	1.13	*******	1.04	
29	1.71	2.88	4.10	5.06	4.27	7.67	3.45	1.83	1.43	1.12		1.09	
30	1.64	2.73	4.04	5.21	3.46	5.99	3.12	1.79	1.39	1.11		1.06	
31		3.02		4.40	3.46		3.10		1.46	1.11		1.06	
MEAN	1.31	2.23	5.60	4.86	5.84	4.16	4.26	2.16	1.55	1.25	*******	1.02	
MAX	1.79	4.02	10.57	7.31	10.02	8.39	5.81	2.99	1.76	1.42	*******	1.22	10.57
MIN	0.86	1.20	3.00	3.34	3.46	2.97	3.10	1.79	1.34	1.11	*******	0.89	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.62 M (A.D), AT 6.00 HOURS, ON JUN 23, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.11 M (A.D)

LEFT BANK ELEVATION 12.44 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.20	8.70	92.71	84.92	84.46	69.79	124.00	51.15	14.20	7.80	*******	2.20	
2	4.05	7.65	93.62	74.37	87.21	72.08	160.90	45.55	13.60	7.65	*******	2.20	
3	4.95	11.40	54.30	66.70	126.50	66.70	141.65	39.60	13.60	7.50	*******	3.30	
4	4.80	20.00	66.30	72.54	175.20	64.70	190.05	37.15	13.40	7.35	*******	4.20	
5	4.80	19.50	143.85	87.67	204.60	65.10	170.80	36.45	13.20	6.75	*******	4.65	
6	3.90	14.40	160.35	109.50	366.80	67.96	127.50	36.80	13.00	5.55	*******	4.80	
7	3.45	26.50	81.25	148.25	440.90	58.30	120.00	35.75	12.60	7.20	*******	3.90	
8	2.90	4.50	51.50	65.10	495.80	57.90	110.00	34.70	11.60	6.90	*******	3.15	
9	2.60	15.25	51.50	93.62	347.75	50.45	111.50	30.40	11.40	6.00	*******	2.30	
10	2.30	15.00	114.00	279.60	316.60	50.80	118.50	23.75	11.20	6.75	*******	2.10	
11	1.80	25.60	234.60	200.40	229.20	53.10	151.00	22.25	10.80	5.40	*******	2.90	
12	1.10	18.00	216.00	134.50	234.60	73.46	132.00	21.75	10.80	5.10	*******	2.90	
13	0.60	13.00	219.60	231.00	292.95	59.90	127.50	20.00	10.80	6.00	*******	2.90	
14	10.00	10.80	167.50	129.00	286.20	81.25	122.50	19.25	10.60	5.40	*******	2.30	
15	14.80	11.00	253.20	99.00	234.00	80.33	100.50	19.25	10.20	5.10	*******	2.10	
16	13.60	12.60	381.40	115.50	277.20	80.79	162.00	18.75	10.00	4.80	*******	1.60	
17	9.60	18.50	275.40	114.50	233.40	101.50	134.50	18.50	9.60	4.95	*******	1.40	
18	6.60	22.75	224.40	124.50	160.90	97.50	114.50	18.25	9.20	4.95	*******	1.30	
19	4.95	22.75	174.10	118.00	122.50	108.00	108.00	18.25	9.00	4.80	*******	1.30	
20	3.60	23.75	235.80	119.50	108.50	147.15	100.50	17.75	8.85	4.80	*******	1.40	
21	3.15	32.80	435.50	228.00	140.00	101.00	93.62	17.25	8.10	4.50	*******	1.00	
22	4.20	36.10	484.10	277.80	165.30	353.75	78.96	16.75	8.25	4.20	*******	1.10	
23	7.35	25.60	548.26	213.60	173.55	216.60	79.42	16.75	8.10	3.60	*******	1.00	
24	10.00	33.40	359.00	225.00	138.50	142.20	70.71	16.50	8.25	3.30	*******	1.00	
25	10.40	96.00	186.20	171.90	113.00	114.00	68.42	21.75	8.10	4.05	*******	1.00	
26	13.00	86.75	98.50	134.00	148.25	98.50	65.50	21.50	7.80	3.90	*******	0.90	
27	12.00	64.30	58.70	135.50	141.10	85.83	61.90	24.00	6.60	3.90	*******	1.10	
28	9.20	57.10	102.00	107.50	119.50	106.00	59.50	18.25	6.90	3.45	*******	2.40	
29	13.20	47.30	100.00	148.80	108.50	302.05	69.79	15.75	7.95	3.30		2.90	
30	11.80	42.05	97.00	157.05	70.25	200.40	56.30	14.80	7.35	3.15		2.60	
31		52.30		115.00	70.25		55.50		8.40	3.15		2.60	
TOTAL	196.90	895.35	5760.64	4382.32	6213.47	3227.09	3387.52	748.60	313.45	161.25	*******	70.50	******** CMSDAY
MEAN	6.56	28.88	192.02	141.37	200.43	107.57	109.27	24.95	10.11	5.20	*******	2.27	******* CMS
MAX	14.80	96.00	548.26	279.60	495.80	353.75	190.05	51.15	14.20	7.80	*******	4.80	548.26 CMS
MIN	0.60	4.50	51.50	65.10	70.25	50.45	55.50	14.80	6.60	3.15	*******	0.90	******* CMS
RUNOFF	17.012	77.358	497.719	378.632	536.843	278.820	292.682	64.679	27.082	13.932	*******	6.091	******** MCM

MOMENTARY PEAK 553.16 CMS, AT 10.62 M (A.D), AT 6.00 HOURS, ON JUN 23, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 601.26 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

EAST COAST-GULF BASIN

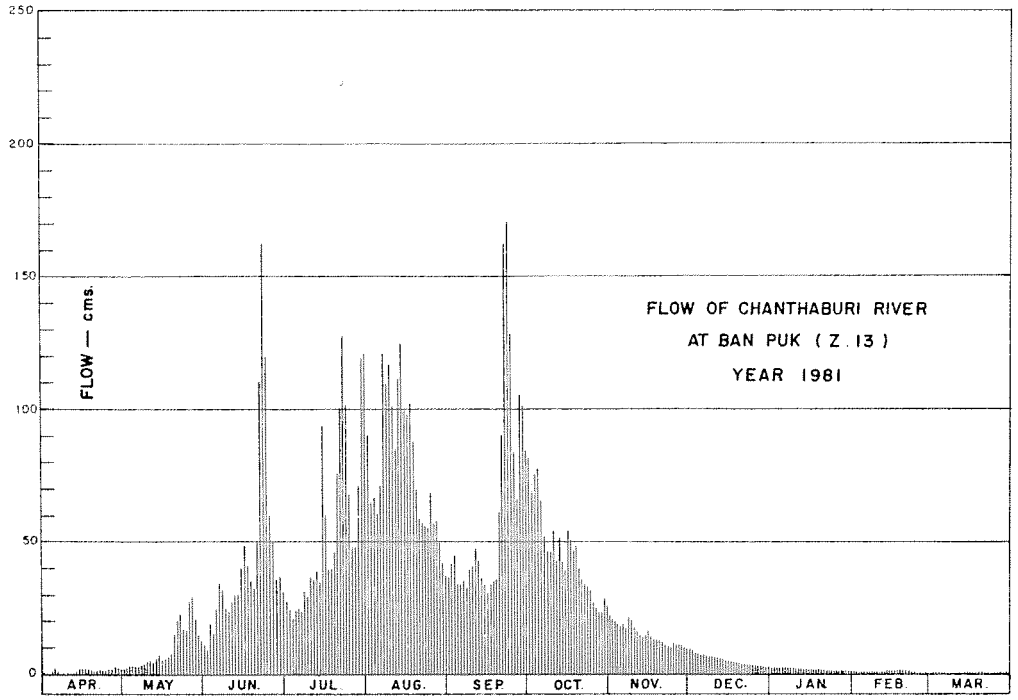
CHANTHABURI RIVER AT BAN PUK, CHANTHABURI (Z.13)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 160 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.19	0.47	0.91	1.57	3.58	1.80	3.02	1.36	0.87	0.53	0.33	0.30	
2	0.19	0.51	1.01	1.49	2.87	1.97	2.95	1.30	0.84	0.52	0.34	0.28	
3	0.21	0.56	1.28	1.42	2.58	2.03	2.64	1.30	0.83	0.51	0.36	0.28	
4	0.20	0.57	1.13	1.34	2.62	1.77	2.86	1.26	0.81	0.51	0.37	0.30	
5	0.54	0.54	1.46	1.42	2.48	1.72	2.91	1.24	0.80	0.50	0.37	0.29	
6	0.41	0.53	1.65	1.46	2.78	1.75	2.56	1.27	0.79	0.50	0.37	0.29	
7	0.35	0.52	1.74	1.41	3.95	1.70	2.31	1.22	0.77	0.49	0.39	0.32	
8	0.24	0.60	1.64	1.66	3.67	1.86	2.14	1.35	0.76	0.49	0.42	0.32	
9	0.20	0.60	1.46	1.59	3.85	1.92	2.07	1.31	0.75	0.48	0.41	0.30	
10	0.27	0.62	1.41	1.62	3.66	1.93	2.10	1.22	0.74	0.48	0.41	0.29	
11	0.30	0.67	1.54	1.81	3.30	2.12	2.30	1.16	0.73	0.48	0.39	0.28	
12	0.29	0.66	1.62	1.78	3.09	2.00	1.99	1.12	0.72	0.47	0.38	0.27	
13	0.37	0.76	1.60	1.87	4.04	1.81	2.21	1.10	0.71	0.47	0.40	0.27	
14	0.39	0.78	1.69	1.76	4.00	1.73	2.03	1.09	0.69	0.46	0.43	0.26	
15	0.48	0.71	1.99	3.32	3.44	1.69	1.88	1.17	0.67	0.45	0.42	0.25	
16	0.44	0.67	2.13	2.68	3.41	1.61	2.29	1.09	0.65	0.45	0.43	0.23	
17	0.49	0.73	1.93	2.08	3.51	1.76	2.21	1.06	0.63	0.45	0.43	0.22	
18	0.44	0.75	1.75	1.87	3.28	1.78	2.09	1.06	0.63	0.44	0.42	0.18	
19	0.44	0.82	1.69	1.90	2.78	1.84	2.15	1.06	0.63	0.44	0.42	0.14	
20	0.39	0.98	1.69	2.25	2.55	2.82	1.96	1.02	0.61	0.43	0.41	0.13	
21	0.37	1.23	2.86	2.82	2.39	3.04	1.82	0.99	0.60	0.43	0.41	0.07	
22	0.43	1.37	4.05	3.77	2.38	4.84	1.74	0.96	0.60	0.43	0.38	0.03	
23	0.42	1.27	4.85	4.13	2.35	5.01	1.69	0.93	0.59	0.42	0.37	0.00	
24	0.42	1.18	3.82	3.55	2.34	4.37	1.69	0.93	0.58	0.42	0.35	0.00	
25	0.42	1.19	2.72	2.77	2.66	3.23	1.58	1.01	0.58	0.42	0.35	0.00	
26	0.45	1.54	2.36	2.37	2.35	2.93	1.51	0.98	0.57	0.42	0.30	0.00	
27	0.46	1.58	2.01	2.11	2.38	2.63	1.45	0.99	0.56	0.41	0.39	0.00	
28	0.54	1.43	1.80	2.14	2.24	3.60	1.41	0.96	0.56	0.41	0.33	0.00	
29	0.50	1.20	1.81	2.94	2.04	3.54	1.43	0.91	0.55	0.41		0.00	
30	0.49	1.06	1.69	3.91	1.89	3.09	1.57	0.87	0.54	0.40		0.00	
31		0.97		3.98	1.81		1.45		0.53	0.40		0.00	
MEAN	0.38	0.87	1.98	2.28	2.91	2.46	2.06	1.11	0.67	0.46	0.38	0.17	
MAX	0.54	1.58	4.85	4.13	4.04	5.01	3.02	1.36	0.87	0.53	0.43	0.32	5.01
MIN	0.19	0.47	0.91	1.34	1.81	1.61	1.41	0.87	0.53	0.40	0.30	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.53 M (A.D), AT 12.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D); RIVER BED -0.32 M (A.D)
LEFT BANK ELEVATION 8.07 M (A.D)
RIGHT BANK ELEVATION 8.81 M (A.D), DRAINAGE AREA 671 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	2.04	9.63	28.14	104.18	35.70	81.60	21.50	8.77	2.79	0.36	0.00	
2	0.00	2.53	21.94	25.58	75.60	41.62	78.80	19.70	8.14	2.66	0.48	0.00	
3	0.00	3.18	19.12	23.34	64.24	43.78	66.56	19.70	7.93	2.53	0.72	0.00	
4	0.00	3.31	14.91	20.90	65.78	34.71	75.20	18.54	7.51	2.53	0.84	0.00	
5	2.92	2.92	24.62	23.34	60.44	33.06	77.20	17.96	7.30	2.40	0.84	0.00	
6	1.32	2.79	30.75	24.62	72.02	34.05	63.48	18.83	7.11	2.40	0.84	0.00	
7	0.60	2.66	33.72	23.02	119.90	32.40	54.07	17.38	6.73	2.28	1.08	0.24	
8	0.00	3.70	30.42	31.08	107.87	37.74	47.78	21.20	6.54	2.28	1.44	0.24	
9	0.00	3.70	24.62	28.78	115.55	39.82	45.22	20.00	6.35	2.16	1.32	0.00	
10	0.00	4.04	23.02	29.76	107.46	40.18	46.30	17.38	6.16	2.16	1.32	0.00	
11	0.00	4.89	27.18	36.04	92.80	47.04	53.70	15.72	5.97	2.16	1.08	0.00	
12	0.00	4.72	29.76	35.04	84.40	42.70	42.34	14.64	5.78	2.04	0.96	0.00	
13	0.84	6.54	29.10	38.08	123.66	36.04	50.37	14.10	5.59	2.04	1.20	0.00	
14	1.08	6.92	32.07	34.38	121.90	33.39	43.78	13.86	5.23	1.92	1.56	0.00	
15	2.16	5.59	42.34	93.60	98.44	32.07	38.42	15.99	4.89	1.80	1.44	0.00	
16	1.68	4.89	47.41	68.12	97.21	29.43	53.33	13.86	4.55	1.80	1.56	0.00	
17	2.28	5.97	40.18	45.58	101.31	34.38	50.37	13.14	4.21	1.80	1.56	0.00	
18	1.68	6.35	34.05	38.08	92.00	35.04	45.94	13.14	4.21	1.68	1.44	0.00	
19	1.68	7.72	32.07	39.10	72.02	37.06	48.15	13.14	4.21	1.68	1.44	0.00	
20	1.08	11.24	32.07	51.85	63.10	73.60	41.26	12.18	3.87	1.56	1.32	0.00	
21	0.84	17.67	75.20	73.60	57.03	82.40	36.38	11.47	3.70	1.56	1.32	0.00	
22	1.56	21.80	124.10	111.97	56.66	161.36	33.72	10.78	3.70	1.56	0.96	0.00	
23	1.44	18.83	161.85	127.68	55.55	169.80	32.07	10.09	3.57	1.44	0.84	0.00	
24	1.44	16.26	114.14	102.95	55.18	138.72	32.07	10.09	3.44	1.44	0.60	0.00	
25	1.44	16.53	69.68	71.63	67.34	90.00	28.46	11.94	3.44	1.44	0.60	0.00	
26	1.80	27.18	55.92	56.29	55.55	78.00	26.22	11.24	3.31	1.44	0.00	0.00	
27	1.92	28.46	43.06	46.67	56.66	66.17	24.30	11.47	3.18	1.32	1.08	0.00	
28	2.92	23.66	35.70	47.78	51.48	105.00	23.02	10.78	3.18	1.32	0.36	0.00	
29	2.40	16.80	36.04	78.40	44.14	102.54	23.66	9.63	3.05	1.32		0.00	
30	2.28	13.14	32.07	118.30	38.76	84.40	28.14	8.77	2.92	1.20		0.00	
31		11.01		121.10	36.04		24.30		2.79	1.20		0.00	
TOTAL	35.36	307.04	1316.74	1694.80	2414.27	1852.20	1416.21	438.22	157.33	57.91	28.56	0.48	9719.10 CMSDAY
MEAN	1.18	9.90	43.89	54.67	77.88	61.74	45.68	14.61	5.08	1.87	1.02	0.02	26.63 CMS
MAX	2.92	28.46	161.85	127.68	123.66	169.80	81.60	21.50	8.77	2.79	1.56	0.24	169.80 CMS
MIN	0.00	2.04	9.63	20.90	36.04	29.43	23.02	8.77	2.79	1.20	0.00	0.00	0.00 CMS
RUNOFF	3.055	26.528	113.766	146.431	208.593	160.030	122.360	37.862	13.593	5.003	2.468	0.041	839.730 MCM

MOMENTARY PEAK 196.36 CMS, AT 5.53 M (A.D), AT 12.00 HOURS, ON SEP 23, 1981

RUNOFF YIELD 39.68 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 292.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

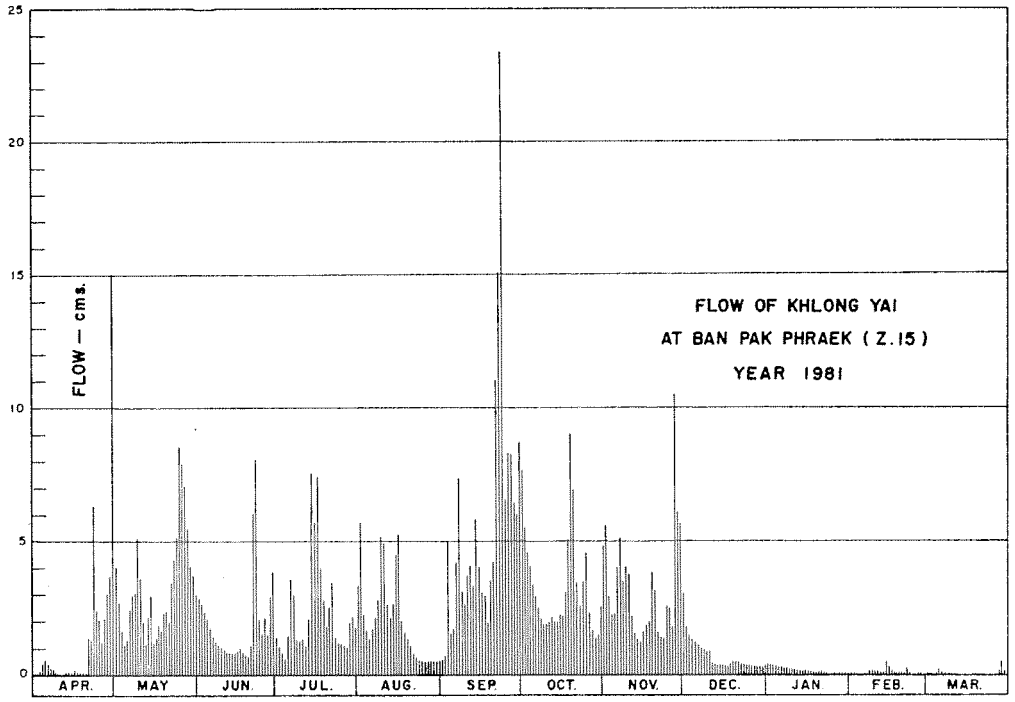
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 121 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	2.26	1.80	1.22	2.39	0.94	2.57	2.37	1.59	0.76	0.52	0.41	
2	0.47	1.81	1.77	1.13	1.71	0.99	2.37	1.86	1.36	0.76	0.50	0.40	
3	0.48	1.46	1.66	1.03	1.45	2.27	2.06	1.57	1.29	0.75	0.52	0.35	
4	0.83	1.12	1.57	0.92	1.26	1.33	2.05	1.58	1.24	0.74	0.49	0.37	
5	0.88	1.24	1.42	1.31	1.21	1.40	1.91	1.83	1.22	0.72	0.49	0.66	
6	0.80	1.50	1.33	1.98	1.47	2.13	1.76	2.29	1.18	0.71	0.49	0.52	
7	0.70	1.78	1.24	1.81	1.56	2.55	1.64	1.94	1.13	0.71	0.51	0.45	
8	0.61	1.82	1.20	1.37	1.72	1.93	1.54	2.10	1.09	0.70	0.54	0.44	
9	0.56	2.28	1.15	1.20	2.29	1.71	1.46	2.03	1.03	0.70	0.65	0.44	
10	0.50	2.06	1.10	1.25	2.25	1.96	1.50	1.89	1.06	0.69	0.60	0.43	
11	0.50	1.65	1.07	1.29	1.73	2.07	1.52	1.52	0.80	0.69	0.59	0.40	
12	0.50	1.31	1.05	1.14	1.52	1.89	1.52	1.33	0.79	0.58	0.54	0.37	
13	0.57	1.50	1.03	1.47	1.66	2.30	1.48	1.26	0.76	0.68	0.55	0.37	
14	0.56	1.79	1.03	2.57	2.03	2.41	1.49	1.22	0.77	0.64	0.90	0.37	
15	0.60	1.32	1.04	2.38	2.31	2.16	1.58	1.20	0.76	0.62	0.83	0.36	
16	0.58	1.17	1.09	2.56	1.70	1.84	1.56	1.43	0.75	0.64	0.70	0.34	
17	0.57	1.44	1.11	2.35	1.37	1.79	1.84	1.48	0.75	0.59	0.51	0.34	
18	0.57	1.37	1.03	1.83	1.32	1.47	2.32	1.85	0.84	0.60	0.56	0.45	
19	0.55	1.58	0.99	1.44	1.22	1.89	2.64	2.02	0.85	0.58	0.54	0.44	
20	0.54	1.60	0.94	1.57	1.16	2.10	2.50	1.67	0.82	0.57	0.55	0.44	
21	1.29	1.48	1.17	1.93	1.02	2.66	2.10	1.34	0.80	0.63	0.52	0.44	
22	1.25	1.92	2.60	1.53	0.95	2.83	1.65	1.26	0.79	0.54	0.69	0.43	
23	2.47	2.14	2.31	1.23	0.90	3.01	1.88	1.27	0.78	0.48	0.52	0.43	
24	1.65	2.36	1.55	1.17	0.87	2.66	1.97	1.68	0.77	0.48	0.34	0.43	
25	1.48	2.62	1.33	1.19	0.84	2.48	2.20	1.65	0.76	0.48	0.37	0.52	
26	1.21	2.58	1.53	1.13	0.84	2.61	1.59	1.41	0.75	0.49	0.41	0.37	
27	1.57	2.52	1.35	1.12	0.81	2.61	1.35	2.70	0.75	0.53	0.41	0.49	
28	1.80	2.38	1.40	1.46	0.86	2.48	1.26	2.45	0.74	0.52	0.39	0.88	
29	2.07	2.11	2.03	1.54	0.85	2.43	1.29	2.41	0.74	0.52		0.65	
30	2.85	2.04	1.51	1.37	0.84	2.63	1.51	2.28	0.75	0.53		0.50	
31		1.95		1.89	0.88		1.90		0.77	0.54		0.45	
MEAN	0.98	1.81	1.38	1.53	1.39	2.12	1.81	1.76	0.92	0.62	0.54	0.45	
MAX	2.85	2.62	2.60	2.57	2.39	3.01	2.64	2.70	1.59	0.76	0.90	0.88	3.01
MIN	0.47	1.12	0.94	0.92	0.81	0.94	1.26	1.20	0.74	0.48	0.34	0.34	0.34

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.15 M (A.D), AT 6.00 HOURS, ON SEP 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.27 M (A.D)
LEFT BANK ELEVATION 4.11 M (A.D)
RIGHT BANK ELEVATION 4.11 M (A.D), DRAINAGE AREA 244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	4.93	2.95	1.25	5.73	0.63	7.59	5.60	2.27	0.34	0.07	0.05	
2	0.05	2.98	2.84	1.02	2.63	0.73	5.60	3.16	1.60	0.34	0.05	0.05	
3	0.05	1.88	2.48	0.81	1.85	4.98	3.94	2.21	1.42	0.33	0.07	0.00	
4	0.44	1.00	2.21	0.59	1.35	1.52	3.90	2.24	1.30	0.31	0.05	0.00	
5	0.52	1.30	1.76	1.47	1.22	1.70	3.34	3.05	1.25	0.28	0.05	0.21	
6	0.40	2.00	1.52	3.62	1.91	4.25	2.81	5.09	1.15	0.26	0.05	0.07	
7	0.25	2.88	1.30	2.98	2.18	7.32	2.42	3.46	1.02	0.26	0.06	0.05	
8	0.16	3.02	1.20	1.62	2.67	3.42	2.12	4.10	0.93	0.25	0.09	0.05	
9	0.11	5.04	1.07	1.20	5.09	2.63	1.88	3.82	0.81	0.25	0.20	0.05	
10	0.05	3.94	0.95	1.32	4.87	3.54	2.00	3.26	0.87	0.24	0.15	0.05	
11	0.05	2.45	0.89	1.42	2.70	3.98	2.06	2.06	0.40	0.24	0.14	0.05	
12	0.05	1.47	0.85	1.05	2.06	3.26	2.06	1.52	0.38	0.13	0.09	0.00	
13	0.12	2.00	0.81	1.91	2.48	5.15	1.94	1.35	0.34	0.23	0.10	0.00	
14	0.11	2.91	0.81	7.59	3.82	5.88	1.97	1.25	0.36	0.19	0.55	0.00	
15	0.15	1.50	0.83	5.67	5.22	4.40	2.24	1.20	0.34	0.17	0.44	0.00	
16	0.13	1.12	0.93	7.46	2.60	3.09	2.18	1.79	0.33	0.19	0.25	0.00	
17	0.12	1.82	0.97	5.47	1.62	2.91	3.09	1.94	0.33	0.14	0.06	0.00	
18	0.12	1.62	0.81	3.05	1.50	1.91	5.28	3.12	0.46	0.15	0.11	0.05	
19	0.10	2.24	0.73	1.82	1.25	3.26	9.00	3.78	0.47	0.13	0.09	0.05	
20	0.09	2.30	0.63	2.21	1.10	4.10	6.65	2.51	0.43	0.12	0.10	0.05	
21	1.42	1.94	1.12	3.42	0.79	9.50	4.10	1.55	0.40	0.18	0.07	0.05	
22	1.32	3.38	8.00	2.09	0.65	14.72	2.45	1.35	0.38	0.09	0.24	0.05	
23	6.39	4.30	5.22	1.27	0.55	23.44	3.23	1.37	0.34	0.05	0.07	0.05	
24	2.45	5.54	2.15	1.12	0.50	9.50	3.58	2.54	0.36	0.05	0.00	0.05	
25	1.94	8.50	1.52	1.17	0.46	6.48	4.60	2.45	0.34	0.05	0.00	0.07	
26	1.22	7.73	2.09	1.02	0.46	8.25	2.27	1.73	0.33	0.05	0.05	0.00	
27	2.21	6.92	1.57	1.00	0.41	8.25	1.57	10.50	0.33	0.08	0.05	0.05	
28	2.95	5.67	1.70	1.88	0.49	6.48	1.35	6.22	0.31	0.07	0.00	0.52	
29	3.98	4.15	3.82	2.12	0.47	6.05	1.42	5.88	0.31	0.07		0.20	
30	15.50	3.86	2.03	1.62	0.46	8.75	2.03	5.04	0.33	0.08		0.05	
31		3.50		3.26	0.52		3.30		0.36	0.09		0.05	
TOTAL	42.51	103.89	55.76	73.50	59.61	170.08	101.97	95.14	20.25	5.41	3.25	1.92	733.29 CMSDAY
MEAN	1.42	3.35	1.86	2.37	1.92	5.67	3.29	3.17	0.65	0.17	0.12	0.06	2.01 CMS
MAX	15.50	8.50	8.00	7.59	5.73	23.44	9.00	10.50	2.27	0.34	0.55	0.52	23.44 CMS
MIN	0.05	1.00	0.63	0.59	0.41	0.63	1.35	1.20	0.31	0.05	0.00	0.00	0.00 CMS
RUNOFF	3.673	8.976	4.818	6.350	5.150	14.695	8.810	8.220	1.750	0.467	0.281	0.166	63.356 MCM

MOMENTARY PEAK 35.15 CMS, AT 3.15 M (A.D), AT 6.00 HOURS, ON SEP 23, 1981
RUNOFF YIELD 8.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 144.06 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

EAST COAST-GULF BASIN

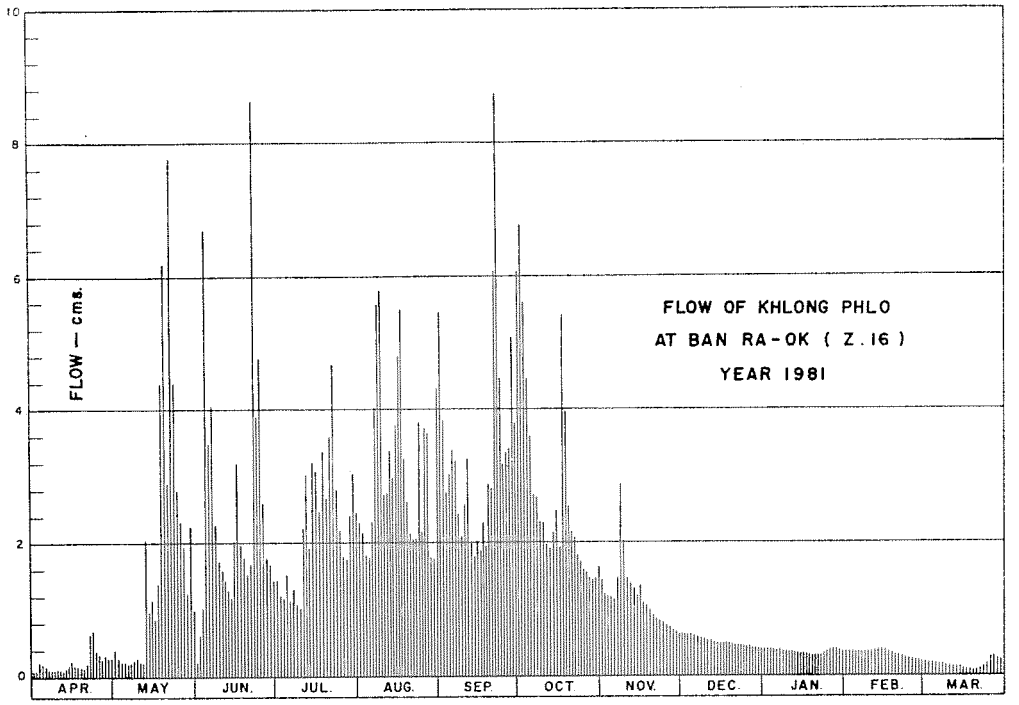
KHLONG PHLO AT BAN RA-OK, RAYONG (Z.16)

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 AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-M.D.
LOCATION	INFRONT OF Z.16 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 118 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	0.68	0.60	1.02	1.23	1.73	1.91	0.99	0.78	0.68	0.67	0.59	
2	0.50	0.67	0.75	0.99	1.21	1.54	1.80	0.96	0.78	0.68	0.66	0.59	
3	0.59	0.60	0.89	0.95	1.18	1.42	1.72	0.95	0.78	0.68	0.66	0.58	
4	0.57	0.60	1.90	0.94	1.11	1.30	1.53	0.95	0.78	0.68	0.66	0.58	
5	0.55	0.59	1.53	1.04	1.09	1.38	1.43	0.94	0.77	0.68	0.66	0.57	
6	0.54	0.59	1.43	1.01	1.21	1.45	1.34	0.94	0.76	0.67	0.66	0.57	
7	0.50	0.58	1.52	0.93	1.38	1.38	1.29	1.07	0.75	0.67	0.67	0.56	
8	0.50	0.59	1.21	0.99	1.74	1.25	1.29	1.33	0.74	0.67	0.67	0.55	
9	0.51	0.63	1.10	0.93	1.77	1.18	1.21	1.07	0.74	0.67	0.67	0.55	
10	0.53	0.60	1.06	0.90	1.45	1.14	1.22	1.03	0.74	0.67	0.66	0.54	
11	0.50	0.60	1.05	1.05	1.30	1.39	1.18	1.01	0.73	0.66	0.67	0.54	
12	0.50	0.59	1.01	1.35	1.30	1.18	1.12	0.99	0.73	0.66	0.68	0.54	
13	0.52	1.16	0.99	1.13	1.41	1.12	1.12	0.98	0.72	0.65	0.68	0.54	
14	0.58	0.89	0.95	1.27	1.34	1.10	1.24	0.95	0.72	0.65	0.69	0.53	
15	0.60	0.94	1.09	1.39	1.40	1.15	1.14	0.99	0.72	0.65	0.68	0.53	
16	0.57	0.85	1.38	1.36	1.52	1.12	1.12	0.92	0.71	0.65	0.67	0.52	
17	0.54	0.92	1.21	1.34	1.73	1.21	1.72	0.92	0.71	0.64	0.66	0.51	
18	0.56	1.03	1.12	1.24	1.44	1.13	1.51	0.90	0.71	0.64	0.65	0.51	
19	0.55	1.43	1.09	1.41	1.31	1.32	1.31	0.88	0.70	0.64	0.64	0.51	
20	0.53	1.83	1.03	1.29	1.23	1.31	1.21	0.86	0.70	0.64	0.64	0.51	
21	0.57	1.33	1.07	1.42	1.17	1.46	1.17	0.85	0.70	0.64	0.64	0.51	
22	0.77	1.88	1.54	1.61	1.15	2.17	1.16	0.84	0.70	0.65	0.63	0.53	
23	0.80	2.05	2.16	1.52	1.15	1.67	1.10	0.84	0.70	0.66	0.63	0.54	
24	0.69	1.40	1.49	1.29	1.48	1.50	1.08	0.83	0.70	0.67	0.62	0.56	
25	0.66	1.31	1.63	1.21	1.18	1.38	1.05	0.83	0.70	0.68	0.62	0.58	
26	0.66	1.23	1.30	1.17	1.46	1.41	1.04	0.82	0.69	0.68	0.62	0.59	
27	0.62	1.17	1.18	1.09	1.28	1.42	1.02	0.80	0.69	0.68	0.61	0.64	
28	0.64	1.03	1.10	1.08	1.16	1.67	1.01	0.80	0.69	0.68	0.61	0.62	
29	0.62	0.96	1.07	1.27	1.10	1.48	1.02	0.79	0.68	0.67		0.61	
30	0.65	1.20	1.02	1.35	1.09	1.82	1.02	0.78	0.68	0.67		0.61	
31		0.90		1.27	1.46		1.06		0.68	0.67		0.60	
MEAN	0.58	0.99	1.22	1.19	1.32	1.39	1.26	0.93	0.72	0.66	0.65	0.56	
MAX	0.80	2.05	2.16	1.61	1.77	2.17	1.91	1.33	0.78	0.68	0.68	0.64	2.17
MIN	0.50	0.58	0.60	0.90	1.09	1.10	1.01	0.78	0.68	0.64	0.61	0.51	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.44 M (A.D), AT 6.00 HOURS, ON JUN 23, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.26 M (A.D)
LEFT BANK ELEVATION 3.68 M (A.D)
RIGHT BANK ELEVATION 7.12 M (A.D), DRAINAGE AREA 41 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.09	0.40	0.22	1.46	2.39	5.46	6.75	1.34	0.63	0.40	0.37	0.21	
2	0.08	0.37	0.56	1.34	2.29	4.18	5.95	1.23	0.63	0.40	0.35	0.21	
3	0.21	0.22	0.97	1.19	2.15	3.43	5.39	1.19	0.63	0.40	0.35	0.19	
4	0.18	0.22	6.68	1.15	1.84	2.74	4.12	1.19	0.63	0.40	0.35	0.19	
5	0.15	0.21	4.12	1.55	1.76	3.20	3.49	1.15	0.61	0.40	0.35	0.18	
6	0.14	0.21	3.49	1.42	2.29	3.61	2.97	1.15	0.58	0.37	0.35	0.18	
7	0.08	0.19	4.05	1.11	3.20	3.20	2.69	1.67	0.56	0.37	0.37	0.16	
8	0.08	0.21	2.29	1.34	5.53	2.49	2.69	2.91	0.54	0.37	0.37	0.15	
9	0.09	0.29	1.80	1.11	5.74	2.15	2.29	1.67	0.54	0.37	0.37	0.15	
10	0.12	0.22	1.63	1.00	3.61	1.98	2.34	1.51	0.54	0.37	0.35	0.14	
11	0.08	0.22	1.59	1.59	2.74	3.25	2.15	1.42	0.51	0.35	0.37	0.14	
12	0.08	0.21	1.42	3.02	2.74	2.15	1.89	1.34	0.51	0.35	0.40	0.14	
13	0.11	2.06	1.34	1.93	3.37	1.89	1.89	1.30	0.49	0.33	0.40	0.14	
14	0.19	0.97	1.19	2.59	2.97	1.80	2.44	1.19	0.49	0.33	0.40	0.12	
15	0.22	1.15	1.76	3.25	3.31	2.02	1.98	1.34	0.49	0.33	0.40	0.12	
16	0.18	0.84	3.20	3.08	4.05	1.89	1.89	1.08	0.46	0.33	0.37	0.11	
17	0.14	1.08	2.29	2.97	5.46	2.29	5.39	1.08	0.46	0.31	0.35	0.09	
18	0.16	1.51	1.89	2.44	3.55	1.93	3.99	1.00	0.46	0.31	0.33	0.09	
19	0.15	3.49	1.76	3.37	2.80	2.85	2.80	0.94	0.44	0.31	0.31	0.09	
20	0.12	6.17	1.51	2.69	2.39	2.80	2.29	0.87	0.44	0.31	0.31	0.09	
21	0.18	2.91	1.67	3.43	2.11	3.68	2.11	0.84	0.44	0.31	0.31	0.09	
22	0.61	6.53	4.18	4.65	2.02	8.71	2.06	0.81	0.44	0.33	0.29	0.12	
23	0.68	7.78	8.63	4.05	2.02	5.05	1.80	0.81	0.44	0.35	0.29	0.14	
24	0.42	3.31	3.86	2.69	3.80	3.92	1.72	0.78	0.44	0.37	0.26	0.16	
25	0.38	2.80	4.78	2.29	2.15	3.20	1.59	0.78	0.44	0.40	0.26	0.19	
26	0.35	2.39	2.74	2.11	3.68	3.37	1.55	0.74	0.42	0.40	0.26	0.29	
27	0.26	2.11	2.15	1.76	2.64	3.43	1.46	0.68	0.42	0.40	0.24	0.31	
28	0.31	1.51	1.80	1.72	2.06	5.05	1.42	0.68	0.42	0.40	0.24	0.26	
29	0.26	1.23	1.67	2.59	1.80	3.80	1.46	0.66	0.40	0.37		0.24	
30	0.33	2.24	1.46	3.02	1.76	6.10	1.46	0.63	0.40	0.37		0.24	
31		1.00		2.59	3.68		1.63		0.40	0.37		0.22	
TOTAL	6.40	54.05	76.70	70.50	91.90	101.62	83.65	33.98	15.30	11.18	9.37	5.15	559.80 CMSDAY
MEAN	0.21	1.74	2.56	2.27	2.96	3.39	2.70	1.13	0.49	0.36	0.33	0.17	1.53 CMS
MAX	0.68	7.78	8.63	4.65	5.74	8.71	6.75	2.91	0.63	0.40	0.40	0.31	8.71 CMS
MIN	0.08	0.19	0.22	1.00	1.76	1.80	1.42	0.63	0.40	0.31	0.24	0.09	0.08 CMS
RUNOFF	0.553	4.670	6.627	6.091	7.940	8.780	7.227	2.936	1.322	0.966	0.810	0.445	48.367 MCM

MOMENTARY PEAK 10.83 CMS, AT 2.44 M (A.D), AT 6.00 HOURS, ON JUN 23, 1981
RUNOFF YIELD 37.41 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 264.12 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KLONG RIVER BASIN

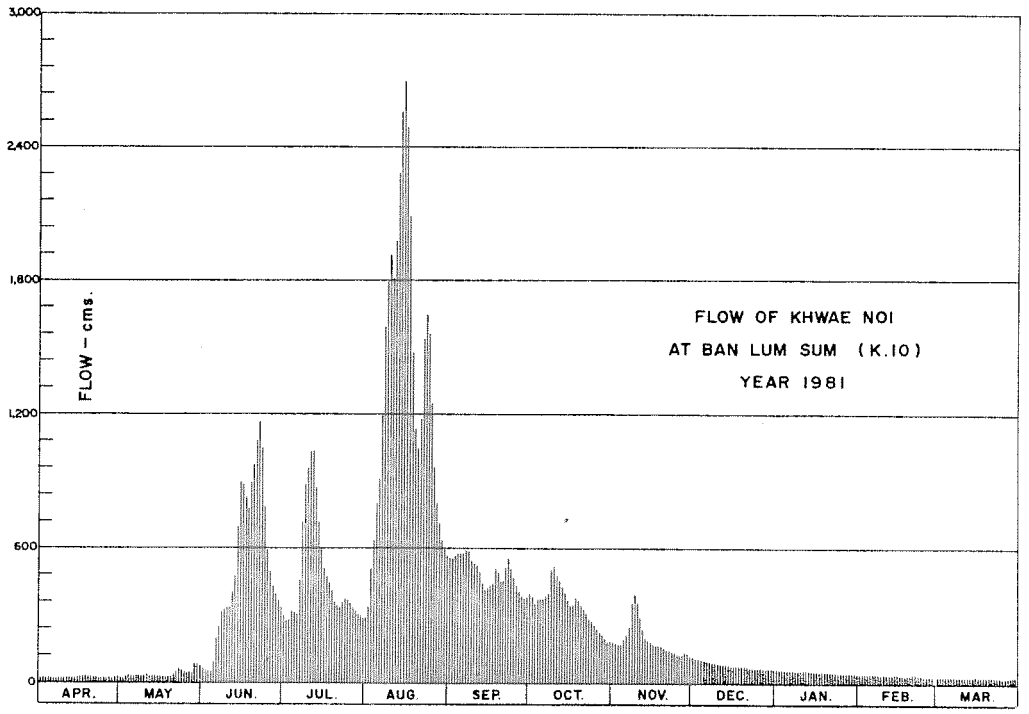
KHWAE NOI AT BAN LUM SUM, KANCHANABURI (K.10)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +47.23 M.(M.S.L.) AND IS INCLUDED.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 139 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	30.92	30.96	31.85	35.16	35.12	37.87	36.36	33.75	32.73	31.88	31.50	31.27	
2	30.92	30.94	31.79	34.85	35.78	37.90	36.21	33.67	32.66	31.86	31.49	31.26	
3	30.95	31.01	31.69	34.90	37.43	37.97	35.89	33.59	32.60	31.85	31.48	31.25	
4	30.96	31.03	31.58	35.49	38.94	38.07	36.08	33.57	32.54	31.83	31.47	31.24	
5	30.93	31.14	31.76	35.39	40.09	38.04	36.15	33.74	32.50	31.82	31.47	31.24	
6	30.92	31.19	33.86	35.28	40.81	38.03	36.12	34.03	32.46	31.80	31.46	31.23	
7	30.91	31.16	34.51	36.95	42.14	38.20	36.20	34.30	32.43	31.79	31.45	31.22	
8	30.90	31.17	35.34	39.55	44.18	38.15	36.43	35.83	32.40	31.77	31.44	31.22	
9	30.89	31.20	35.60	40.39	45.31	37.77	37.37	36.28	32.36	31.75	31.43	31.21	
10	30.90	31.25	35.62	40.47	45.37	37.69	37.60	35.95	32.32	31.74	31.41	31.21	
11	30.85	31.28	35.70	41.20	44.90	37.60	37.20	35.10	32.30	31.73	31.41	31.20	
12	31.01	31.17	36.39	41.23	45.35	37.30	36.97	34.45	32.28	31.71	31.40	31.21	
13	30.92	31.16	37.15	40.22	46.70	36.89	36.60	34.08	32.27	31.70	31.38	31.19	
14	30.91	31.24	38.99	39.19	47.84	36.56	36.32	33.85	32.25	31.69	31.38	31.18	
15	30.95	31.21	40.43	38.25	48.35	36.59	36.02	33.72	32.22	31.68	31.37	31.17	
16	31.01	31.15	40.30	37.47	47.53	36.74	35.73	33.61	32.18	31.67	31.36	31.16	
17	31.09	31.08	39.81	37.10	45.60	36.64	35.82	33.55	32.15	31.66	31.35	31.16	
18	31.09	31.08	40.24	36.85	43.43	37.43	36.16	33.54	32.13	31.65	31.35	31.15	
19	31.06	31.08	40.38	36.40	41.94	37.25	36.07	33.51	32.11	31.63	31.37	31.15	
20	31.03	31.08	40.88	36.02	41.38	36.94	35.86	33.43	32.08	31.62	31.40	31.14	
21	30.98	31.15	41.61	35.71	42.02	36.97	35.60	33.28	32.06	31.60	31.42	31.14	
22	30.96	31.53	42.01	35.63	43.35	37.44	35.36	33.18	32.03	31.60	31.37	31.13	
23	30.96	31.78	41.12	35.91	44.25	37.85	35.06	33.10	32.01	31.59	31.34	31.12	
24	30.95	31.64	39.63	36.08	43.85	37.38	34.87	33.04	31.99	31.57	31.32	31.11	
25	30.98	31.56	38.24	36.04	42.36	37.01	34.70	32.97	31.98	31.56	31.31	31.11	
26	30.95	31.47	37.24	35.85	40.80	36.74	34.49	32.94	31.96	31.56	31.30	31.11	
27	31.00	31.59	36.65	35.59	39.80	36.43	34.30	33.00	31.94	31.55	31.29	31.12	
28	30.97	31.44	36.29	35.41	39.12	36.19	34.14	33.10	31.93	31.54	31.27	31.13	
29	31.00	32.28	36.10	35.26	38.60	36.13	34.02	33.05	31.92	31.53		31.14	
30	30.99	32.25	35.63	35.07	38.24	36.13	33.74	32.86	31.91	31.52		31.15	
31		32.18		35.01	38.00		33.84		31.89	31.51		31.19	
MEAN	30.96	31.34	36.95	36.90	42.21	37.26	35.72	33.80	32.21	31.68	31.39	31.18	
MAX	31.09	32.28	42.01	41.23	48.35	38.20	37.60	36.28	32.73	31.88	31.50	31.27	48.35
MIN	30.85	30.94	31.58	34.85	35.12	36.13	33.74	32.86	31.89	31.51	31.27	31.11	30.85

ANNUAL MAX MOMENTARY GAGE HEIGHT 48.40 M (MSL), AT 10.00 HOURS, ON AUG 15, 1981
ZERO GAGE AT BOTTOM ELEVATION 30.40 M (MSL), RIVER BED 28.94 M (MSL)
LEFT BANK ELEVATION 51.95 M (MSL)
RIGHT BANK ELEVATION 47.22 M (MSL), DRAINAGE AREA 7008 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.0	16.0	60.5	294.8	291.6	554.7	397.4	182.0	110.1	62.0	43.0	31.5	
2	14.0	15.0	57.5	270.0	345.2	558.0	383.9	175.9	105.6	61.0	42.5	31.0	
3	15.5	18.5	52.5	274.0	506.3	565.7	355.1	170.3	102.0	60.5	42.0	30.5	
4	16.0	19.5	47.0	321.2	687.2	576.7	372.2	168.9	98.4	59.5	41.5	30.0	
5	14.5	25.0	56.0	313.2	847.5	573.4	378.5	181.2	96.0	59.0	41.5	30.0	
6	14.0	27.5	190.8	304.4	960.9	572.3	375.8	204.4	93.6	58.0	41.0	29.5	
7	13.5	26.0	242.8	454.0	1194.6	592.0	383.0	226.0	91.8	57.5	40.5	29.0	
8	13.0	26.5	309.2	769.0	1636.4	586.0	403.7	349.7	90.0	56.5	40.0	29.0	
9	12.5	28.0	330.0	892.5	1899.4	543.7	499.7	390.2	87.6	55.5	39.5	28.5	
10	13.0	30.5	331.6	904.5	1913.8	534.9	525.0	360.5	85.2	55.0	38.5	28.5	
11	10.5	32.0	338.0	1026.2	1802.0	525.0	481.0	290.0	84.0	54.5	38.5	28.0	
12	18.5	26.5	400.1	1031.3	1909.0	492.0	456.0	238.0	82.8	53.5	38.0	28.5	
13	14.0	26.0	475.5	867.0	2251.0	448.0	419.0	208.4	82.2	53.0	37.0	27.5	
14	13.5	30.0	693.7	719.7	2555.8	415.4	393.8	190.0	81.0	52.5	37.0	27.0	
15	15.5	28.5	898.5	598.0	2698.0	418.1	366.8	179.6	79.2	52.0	36.5	26.5	
16	18.5	25.5	879.0	510.7	2472.1	433.0	340.7	171.7	77.0	51.5	36.0	26.0	
17	22.5	22.0	805.5	470.0	1970.0	423.0	348.8	167.5	75.5	51.0	35.5	26.0	
18	22.5	22.0	870.0	444.0	1468.6	506.3	379.4	166.8	74.5	50.5	35.5	25.5	
19	21.0	22.0	891.0	401.0	1149.1	486.5	371.3	164.7	73.5	49.5	36.5	25.5	
20	19.5	22.0	972.6	366.8	1045.4	453.0	352.4	159.1	72.0	49.0	38.0	25.0	
21	17.0	25.5	1074.0	338.9	1167.3	456.0	330.0	148.6	71.0	48.0	39.0	25.0	
22	16.0	44.5	1165.0	332.4	1451.0	507.4	310.8	141.6	69.5	48.0	36.5	24.5	
23	16.0	57.0	1012.8	356.9	1652.5	552.5	286.8	136.0	68.5	47.5	35.0	24.0	
24	15.5	50.0	780.2	372.2	1561.0	500.8	271.6	131.8	67.5	46.5	34.0	23.5	
25	17.0	46.0	596.8	368.6	1243.0	460.1	258.0	126.9	67.0	46.0	33.5	23.5	
26	15.5	41.5	485.4	351.5	959.2	433.0	241.2	124.8	66.0	46.0	33.0	23.5	
27	18.0	47.5	424.0	329.2	804.0	403.7	226.0	129.0	65.0	45.5	32.5	24.0	
28	16.5	40.0	391.1	314.8	710.6	382.1	213.2	136.0	64.5	45.0	31.5	24.5	
29	18.0	82.8	374.0	302.8	643.0	376.7	203.6	132.5	64.0	44.5		25.0	
30	17.5	81.0	332.4	287.6	596.8	376.7	181.2	119.2	63.5	44.0		25.5	
31		77.0		282.8	569.0		189.2		62.5	43.5		27.5	
TOTAL	483.0	1081.8	15537.5	14870.0	40961.3	14706.7	10695.1	5671.3	2471.0	1606.0	1053.5	833.5	109970.6 CMSDAY
MEAN	16.1	34.9	517.9	479.7	1321.3	490.2	345.0	189.0	79.7	51.8	37.6	26.9	301.3 CMS
MAX	22.5	82.8	1165.0	1031.3	2698.0	592.0	525.0	390.2	110.1	62.0	43.0	31.5	2698.0 CMS
MIN	10.5	15.0	47.0	270.0	291.6	376.7	181.2	119.2	62.5	43.5	31.5	23.5	10.5 CMS
RUNOFF	41.73	93.47	1342.44	1284.77	3539.05	1270.66	924.06	490.00	213.49	138.76	91.02	72.01	9501.46 MCM

MOMENTARY PEAK 2712.00 CMS, AT 48.40 M (MSL), AT 10.00 HOURS, ON AUG 15, 1981

RUNOFF YIELD 42.99 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 386.99 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KLONG RIVER BASIN

MAE KLONG RIVER AT BAN WANG KHANAI, KANCHANABURI (K.11)

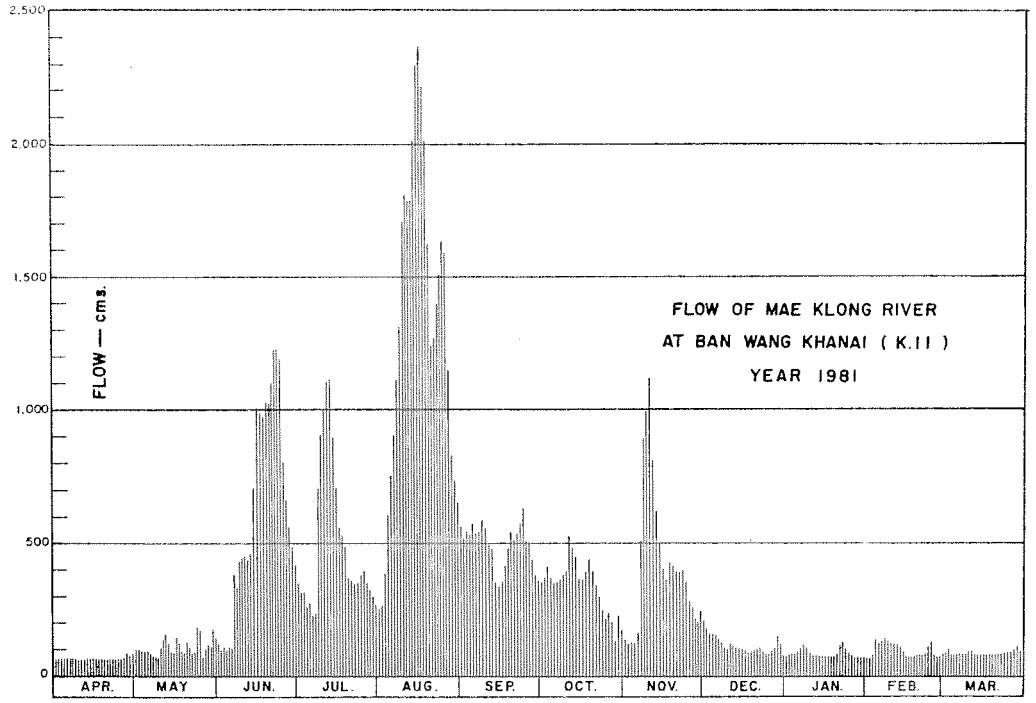
LOCATION — LAT. 13°-56'-55" N., LONG. 99°-38'-42" E., ON LEFT BANK ABOUT 3 KILOMETERS DOWNSTREAM FROM AMPHOE THA MUANG OFFICE, AMPHOE THA MUANG, KANCHANABURI.

DRAINAGE AREA	26,449 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY VACHIRALONGKORN DIVERSION DAM FOR IRRIGATION OF ABOUT 419,520 HECTARES ABOVE GAGE SITE.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.00	12.25	12.35	13.37	12.90	13.98	13.31	12.48	12.77	12.05	12.04	12.15	
2	12.01	12.21	12.18	13.13	12.95	13.84	13.37	12.31	12.64	12.09	12.05	12.23	
3	12.04	12.19	12.25	13.14	13.24	13.94	13.49	12.34	12.50	12.11	12.12	12.17	
4	12.04	12.19	12.19	13.03	13.95	13.88	13.34	12.38	12.52	12.11	12.43	12.12	
5	12.04	12.19	12.27	13.30	14.53	14.00	13.29	12.35	12.51	12.11	12.38	12.10	
6	12.04	12.12	12.21	13.40	14.94	13.93	13.28	12.48	12.47	12.20	12.35	12.13	
7	12.04	12.07	13.39	13.17	15.23	13.89	13.33	13.43	12.39	12.33	12.41	12.13	
8	12.03	12.05	13.19	13.91	15.73	13.99	13.33	14.91	12.32	12.34	12.45	12.13	
9	11.99	12.03	13.55	14.83	16.40	14.04	13.41	15.27	12.19	12.21	12.41	12.13	
10	11.96	12.14	13.59	15.06	16.98	13.86	13.76	15.49	12.23	12.10	12.35	12.20	
11	11.99	12.37	13.63	15.18	17.08	13.78	13.88	15.06	12.33	12.08	12.36	12.20	
12	12.00	12.51	13.56	15.47	17.02	13.73	13.77	14.52	12.32	12.08	12.36	12.11	
13	12.04	12.33	13.65	15.49	17.13	13.56	13.66	14.20	12.27	12.08	12.35	12.10	
14	12.01	12.15	14.20	15.15	17.65	13.29	13.53	13.85	12.23	12.08	12.22	12.11	
15	12.01	12.16	14.71	14.68	18.06	13.20	13.33	13.58	12.23	12.08	12.09	12.11	
16	12.01	12.46	15.22	14.35	18.21	13.28	13.34	13.39	12.23	12.08	12.08	12.11	
17	12.00	12.39	15.18	13.99	18.22	13.50	13.33	13.30	12.18	12.08	12.06	12.11	
18	12.01	12.16	15.15	13.88	17.76	13.56	13.53	13.57	12.12	12.07	12.07	12.11	
19	12.01	12.13	15.25	13.74	16.87	13.93	13.60	13.53	12.16	12.07	12.07	12.12	
20	12.01	12.36	15.27	13.61	16.17	13.82	13.40	13.44	12.19	12.08	12.12	12.12	
21	12.01	12.23	15.43	13.34	15.82	13.79	13.29	13.45	12.20	12.23	12.09	12.11	
22	12.01	12.13	15.75	13.29	15.89	13.96	13.13	13.42	12.24	12.37	12.09	12.11	
23	12.01	12.14	15.77	13.23	16.40	14.10	12.99	13.45	12.25	12.31	12.10	12.11	
24	12.01	12.62	15.69	13.33	16.68	14.21	12.91	13.39	12.13	12.18	12.25	12.16	
25	12.01	12.55	15.02	13.39	16.62	13.80	12.74	13.06	12.09	12.14	12.36	12.17	
26	12.04	12.06	14.43	13.43	16.05	13.82	12.82	12.98	12.16	12.05	12.11	12.17	
27	12.10	12.21	14.17	13.28	15.36	13.59	12.69	12.93	12.19	12.04	12.07	12.25	
28	12.04	12.31	13.88	13.20	14.86	13.44	12.39	12.72	12.32	12.04	12.07	12.30	
29	12.07	12.27	13.73	13.07	14.55	13.34	12.62	12.71	12.48	12.04		12.22	
30	12.17	12.58	13.57	13.08	14.35	13.27	12.81	12.86	12.41	12.04		12.16	
31		12.49		12.94	14.02		12.56		12.13	12.05		12.22	
MEAN	12.02	12.26	14.01	13.79	15.86	13.74	13.23	13.43	12.30	12.13	12.21	12.15	
MAX	12.17	12.62	15.77	15.49	18.22	14.21	13.88	15.49	12.77	12.37	12.45	12.30	18.22
MIN	11.96	12.03	12.18	12.94	12.90	13.20	12.39	12.31	12.09	12.04	12.04	12.10	11.96

ANNUAL MAX MOMENTARY GAGE HEIGHT 18.23 M (MSL), AT 15.00 HOURS, ON AUG 16, 1981
ZERO GAGE AT BOTTOM ELEVATION 11.93 M (MSL), RIVER BED 10.45 M (MSL)
LEFT BANK ELEVATION M (MSL)
RIGHT BANK ELEVATION M (MSL), DRAINAGE AREA 26449 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	62.0	103.5	121.5	370.9	248.0	553.8	354.7	148.6	215.8	70.0	68.4	86.5	
2	63.6	96.7	91.6	307.8	261.0	510.4	370.9	113.9	185.2	76.4	70.0	100.1	
3	68.4	93.3	103.5	310.4	336.4	541.4	404.2	119.6	153.0	79.7	81.4	89.9	
4	68.4	93.3	93.3	281.8	544.5	522.8	362.8	127.2	157.6	79.7	137.6	81.4	
5	68.4	93.3	106.9	352.0	740.5	560.0	349.4	121.5	155.3	79.7	127.2	78.0	
6	68.4	81.4	96.7	379.0	893.2	538.3	346.8	148.6	146.4	95.0	121.5	83.1	
7	68.4	73.2	376.3	318.2	1005.0	525.9	360.1	387.4	129.1	117.7	133.2	83.1	
8	66.8	70.0	323.4	532.1	1210.6	556.9	360.1	881.8	115.8	119.6	142.0	83.1	
9	60.6	66.8	422.0	851.4	1499.0	572.4	381.8	1021.0	93.3	96.7	133.2	83.1	
10	56.4	84.8	434.0	938.8	1763.6	516.6	485.6	1110.9	100.1	78.0	121.5	95.0	
11	60.6	125.3	446.0	985.2	1810.6	491.8	522.8	938.8	117.7	74.8	123.4	95.0	
12	62.0	155.3	425.0	1102.7	1782.4	476.3	488.7	737.0	115.8	74.8	123.4	79.7	
13	66.4	117.7	452.0	1110.9	1834.1	425.0	455.0	625.0	106.9	74.8	121.5	78.0	
14	63.6	86.5	625.0	973.5	2078.5	349.4	416.0	513.5	100.1	74.8	98.4	79.7	
15	63.6	88.2	805.8	794.6	2277.9	326.0	360.1	431.0	100.1	74.8	76.4	79.7	
16	63.6	144.2	1001.0	677.5	2351.3	346.8	362.8	376.3	100.1	74.8	74.8	79.7	
17	62.0	129.1	985.2	556.9	2356.1	407.0	360.1	352.0	91.6	74.8	71.6	79.7	
18	63.6	88.2	973.5	522.8	2131.3	425.0	416.0	428.0	81.4	73.2	73.2	79.7	
19	63.6	83.1	1013.0	479.4	1712.2	538.3	437.0	416.0	88.2	73.2	73.2	81.4	
20	63.6	123.4	1021.0	440.0	1398.1	504.2	379.0	390.2	93.3	74.8	81.4	81.4	
21	63.6	100.1	1086.3	362.8	1248.4	494.9	349.4	393.0	95.0	100.1	76.4	79.7	
22	63.6	83.1	1219.0	349.4	1277.8	547.6	307.8	384.6	101.8	125.3	76.4	79.7	
23	63.6	84.8	1227.4	333.8	1499.0	591.0	271.4	393.0	103.5	113.9	78.0	79.7	
24	63.6	180.6	1193.8	360.1	1624.8	628.5	250.6	376.3	83.1	91.6	103.5	88.2	
25	63.6	164.5	923.6	376.3	1597.2	498.0	208.6	289.6	76.4	84.8	123.4	89.9	
26	68.4	71.6	705.5	387.4	1346.5	504.2	228.0	268.8	88.2	70.0	79.7	89.9	
27	78.0	96.7	614.8	346.8	1057.6	434.0	196.7	255.8	93.3	68.4	73.2	103.5	
28	68.4	113.9	522.8	326.0	862.8	390.2	129.1	203.8	115.8	68.4	73.2	112.0	
29	73.2	106.9	476.3	292.2	747.5	362.8	180.6	201.4	148.6	68.4		98.4	
30	89.9	171.4	428.0	294.8	677.5	344.2	225.5	238.0	133.2	68.4		88.2	
31		150.8		258.4	566.2		166.8		83.1	70.0		98.4	
TOTAL	1981.9	3321.7	18314.2	15973.9	40739.6	14483.7	10488.4	12392.6	3568.8	2566.6	2737.1	2684.9	129253.2 CMSDAY
MEAN	66.1	107.2	610.5	515.3	1314.2	482.8	338.3	413.1	115.1	82.8	97.8	86.6	354.1 CMS
MAX	89.9	180.6	1227.4	1110.9	2356.1	628.5	522.8	1110.9	215.8	125.3	142.0	112.0	2356.1 CMS
MIN	56.4	66.8	91.6	258.4	248.0	326.0	129.1	113.9	76.4	68.4	68.4	78.0	56.4 CMS
RUNOFF	171.24	286.99	1582.35	1380.14	3519.90	1251.39	906.20	1070.72	308.34	221.75	236.49	231.98	11167.48 MCM

MOMENTARY PEAK 2361.04 CMS, AT 18.23 M (MSL), AT 15.00 HOURS, ON AUG 16, 1981

RUNOFF YIELD 13.39 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 89.27 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KLONG RIVER BASIN

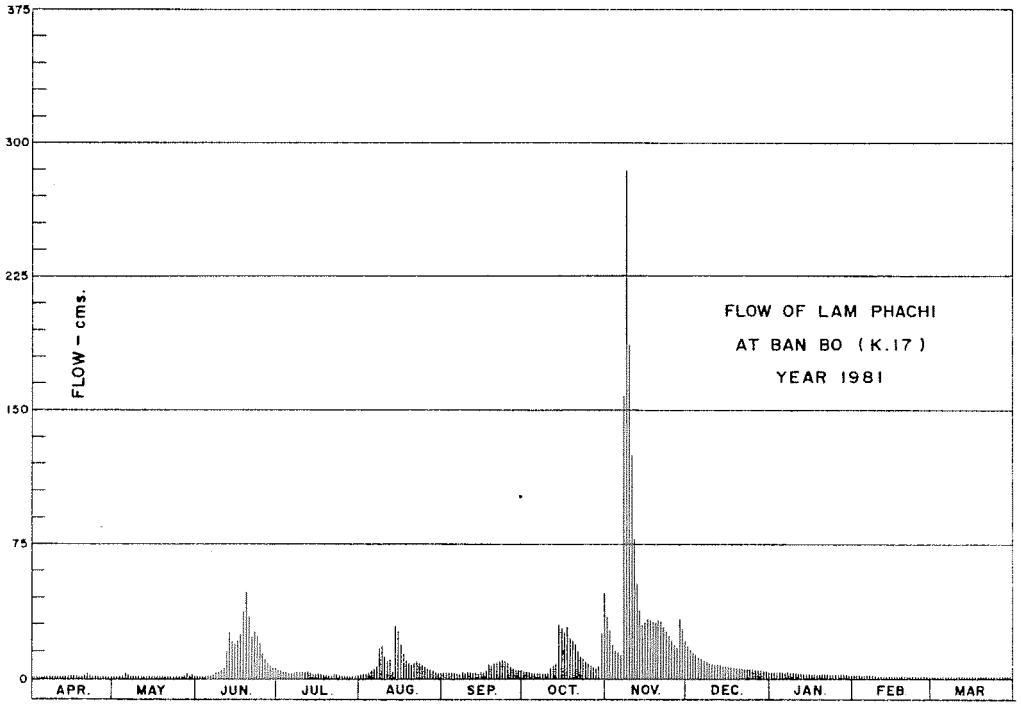
LAM PHACHI AT BAN BO, RATCHABURI (K.17)

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 CHUM BUNG, RATCHABURI.
DRAINAGE AREA	1,355 SQ.KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 154 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.18	-0.03	0.18	0.65	0.30	0.56	0.61	2.05	1.50	0.57	0.32	0.19	
2	-0.02	-0.03	0.12	0.59	0.36	0.53	0.55	1.77	1.40	0.56	0.31	0.20	
3	-0.06	-0.08	0.07	0.55	0.38	0.50	0.52	1.52	1.32	0.53	0.30	0.19	
4	-0.10	0.50	0.07	0.52	0.47	0.50	0.49	1.34	1.25	0.54	0.30	0.20	
5	-0.11	0.47	0.25	0.48	0.69	0.49	0.48	1.35	1.18	0.53	0.30	0.20	
6	-0.10	0.30	0.19	0.46	0.75	0.46	0.45	1.31	1.11	0.51	0.33	0.19	
7	-0.12	0.19	0.27	0.48	0.84	0.45	0.42	2.35	1.07	0.51	0.34	0.18	
8	-0.12	0.18	0.50	0.53	1.47	0.50	0.41	5.46	1.01	0.50	0.31	0.17	
9	-0.11	0.16	0.56	0.57	1.49	0.46	0.39	4.36	0.97	0.49	0.30	0.17	
10	-0.14	0.12	0.56	0.56	1.21	0.52	0.38	3.57	0.94	0.48	0.29	0.16	
11	-0.15	0.10	0.80	0.55	1.06	0.51	0.73	2.87	0.94	0.47	0.28	0.14	
12	-0.08	0.11	1.47	0.50	1.10	0.50	0.84	2.42	0.92	0.46	0.27	0.13	
13	0.05	0.05	1.82	0.49	0.49	0.48	1.06	2.12	0.91	0.45	0.27	0.13	
14	0.05	0.03	1.61	0.45	1.90	0.46	1.94	1.95	0.88	0.44	0.27	0.17	
15	0.20	-0.01	1.53	0.43	1.85	0.58	1.92	1.99	0.85	0.43	0.26	0.12	
16	0.29	-0.02	1.60	0.38	1.54	0.48	1.78	2.05	0.83	0.42	0.24	0.12	
17	0.15	-0.04	1.77	0.35	1.28	0.57	1.95	2.00	0.80	0.41	0.27	0.12	
18	0.14	-0.04	2.16	0.33	1.10	0.94	1.71	1.99	0.78	0.41	0.25	0.11	
19	0.10	-0.03	2.36	0.31	0.98	0.90	1.62	1.97	0.76	0.41	0.42	0.11	
20	0.24	0.02	2.02	0.28	0.91	0.97	1.57	2.02	0.75	0.40	0.30	0.10	
21	0.38	0.07	1.67	0.28	0.95	1.05	1.42	1.99	0.73	0.39	0.26	0.10	
22	0.29	0.08	1.80	0.36	1.05	1.02	1.25	1.88	0.72	0.38	0.24	0.09	
23	0.17	0.06	1.73	0.36	0.98	1.05	1.12	1.80	0.71	0.37	0.23	0.09	
24	0.10	0.06	1.62	0.32	0.91	1.03	1.02	1.75	0.71	0.37	0.22	0.09	
25	0.06	0.06	1.35	0.29	0.83	0.95	0.97	1.62	0.70	0.36	0.21	0.09	
26	0.01	0.05	1.13	0.28	0.75	0.85	0.89	1.52	0.67	0.34	0.21	0.08	
27	0.03	0.07	1.00	0.26	0.70	0.75	0.83	1.44	0.66	0.34	0.20	0.12	
28	0.01	0.43	0.87	0.24	0.65	0.69	0.77	2.03	0.64	0.34	0.19	0.18	
29	-0.01	0.09	0.78	0.22	0.62	0.66	0.82	1.86	0.62	0.33		0.27	
30	-0.02	0.44	0.71	0.22	0.59	0.65	1.64	1.62	0.60	0.33		0.25	
31		0.29		0.22	0.55		2.37		0.58	0.32		0.30	
MEAN	0.03	0.12	1.09	0.40	0.93	0.67	1.06	2.13	0.89	0.43	0.27	0.15	
MAX	0.38	0.50	2.36	0.65	1.90	1.05	2.37	5.46	1.50	0.57	0.42	0.30	5.46
MIN	-0.18	-0.08	0.07	0.22	0.30	0.45	0.38	1.31	0.58	0.32	0.19	0.08	-0.18

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.24 M (A.D.), AT 8.00 HOURS, ON NOV 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D.), RIVER BED M (A.D.)
LEFT BANK ELEVATION 11.92 M (A.D.)
RIGHT BANK ELEVATION 8.79 M (A.D.), DRAINAGE AREA 1355 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.41	1.04	4.56	1.50	3.77	4.21	34.15	18.20	3.86	1.68	1.07	
2	0.44	0.41	0.86	4.04	2.02	3.51	3.69	25.02	16.00	3.77	1.59	1.10	
3	0.32	0.26	0.71	3.69	2.20	3.25	3.42	18.68	14.40	3.51	1.50	1.07	
4	0.20	3.25	0.71	3.42	2.99	3.25	3.16	14.80	13.10	3.60	1.50	1.10	
5	0.18	2.99	1.30	3.07	4.91	3.16	3.07	15.00	11.88	3.51	1.50	1.10	
6	0.20	1.50	1.07	2.90	5.60	2.90	2.81	14.20	10.76	3.34	1.76	1.07	
7	0.16	1.07	1.38	3.07	6.72	2.81	2.55	47.60	10.12	3.34	1.85	1.04	
8	0.16	1.04	3.25	3.51	17.54	3.25	2.46	283.96	9.16	3.25	1.59	1.01	
9	0.18	0.98	3.77	3.86	17.98	2.90	2.29	186.18	8.55	3.16	1.50	1.01	
10	0.12	0.86	3.77	3.77	12.38	3.42	2.20	124.97	8.10	3.07	1.46	0.98	
11	0.10	0.80	6.20	3.69	9.96	3.34	5.36	78.04	8.10	2.99	1.42	0.92	
12	0.26	0.83	17.54	3.25	10.60	3.25	6.72	51.32	7.80	2.90	1.38	0.89	
13	0.65	0.65	26.40	3.16	3.16	3.07	9.96	36.96	7.65	2.81	1.38	0.89	
14	0.65	0.59	20.86	2.81	28.80	2.90	30.16	30.50	7.24	2.73	1.38	1.01	
15	1.10	0.47	18.92	2.64	27.30	3.95	29.48	31.86	6.85	2.64	1.34	0.86	
16	1.46	0.44	20.60	2.20	19.16	3.07	25.28	34.15	6.59	2.55	1.26	0.86	
17	0.95	0.38	25.02	1.94	13.64	3.86	30.50	32.20	6.20	2.46	1.38	0.86	
18	0.92	0.36	38.68	1.76	10.60	8.10	23.46	31.86	5.96	2.46	1.30	0.83	
19	0.80	0.41	48.12	1.59	8.70	7.50	21.38	31.18	5.72	2.46	2.55	0.83	
20	1.26	0.56	32.98	1.42	7.65	8.55	19.88	32.98	5.60	2.37	1.50	0.80	
21	2.20	0.71	22.42	1.42	8.25	9.80	16.44	31.86	5.36	2.29	1.34	0.80	
22	1.46	0.74	25.80	2.02	9.80	9.32	13.10	28.20	5.24	2.20	1.26	0.77	
23	1.01	0.68	23.98	2.02	8.70	9.80	10.92	25.80	5.12	2.11	1.22	0.77	
24	0.80	0.68	21.12	1.68	7.65	9.48	9.32	24.50	5.12	2.11	1.18	0.77	
25	0.68	0.68	15.00	1.46	6.59	8.25	8.55	21.12	5.00	2.02	1.14	0.77	
26	0.53	0.65	11.08	1.42	5.60	6.85	7.37	18.68	4.74	1.85	1.14	0.74	
27	0.59	0.71	9.00	1.34	5.00	5.60	6.59	16.88	4.65	1.85	1.10	0.86	
28	0.53	2.64	7.11	1.26	4.56	4.91	5.84	33.37	4.47	1.85	1.07	1.04	
29	0.47	0.77	5.96	1.18	4.30	4.65	6.46	27.60	4.30	1.76		1.38	
30	0.44	2.73	5.12	1.18	4.04	4.56	21.64	21.12	4.12	1.76		1.30	
31		1.46		1.18	3.69		48.64		3.95	1.68		1.50	
TOTAL	18.26	30.73	419.77	76.51	281.59	153.03	386.91	1404.74	240.05	82.26	40.27	30.00	3164.71 CMSDAY
MEAN	0.63	0.99	13.99	2.47	9.08	5.10	12.48	46.82	7.74	2.65	1.44	0.97	8.67 CMS
MAX	2.20	3.25	48.12	4.56	28.80	9.80	48.64	283.96	18.20	3.86	2.55	1.50	283.96 CMS
MIN	0.04	0.26	0.71	1.18	1.50	2.81	2.20	14.20	3.95	1.68	1.07	0.74	0.04 CMS
RUNOFF	1.630	2.655	36.268	6.610	24.329	13.222	33.429	121.369	20.740	7.107	3.479	2.592	273.431 MCM

MOMENTARY PEAK 357.38 CMS, AT 6.24 N (A D), AT 8.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 6.40 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 263.75 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KLONG RIVER BASIN

HUAI MAE NAM NOI AT 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 AT — +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 WITH VARIABLE WATER SURFACE SLOPE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

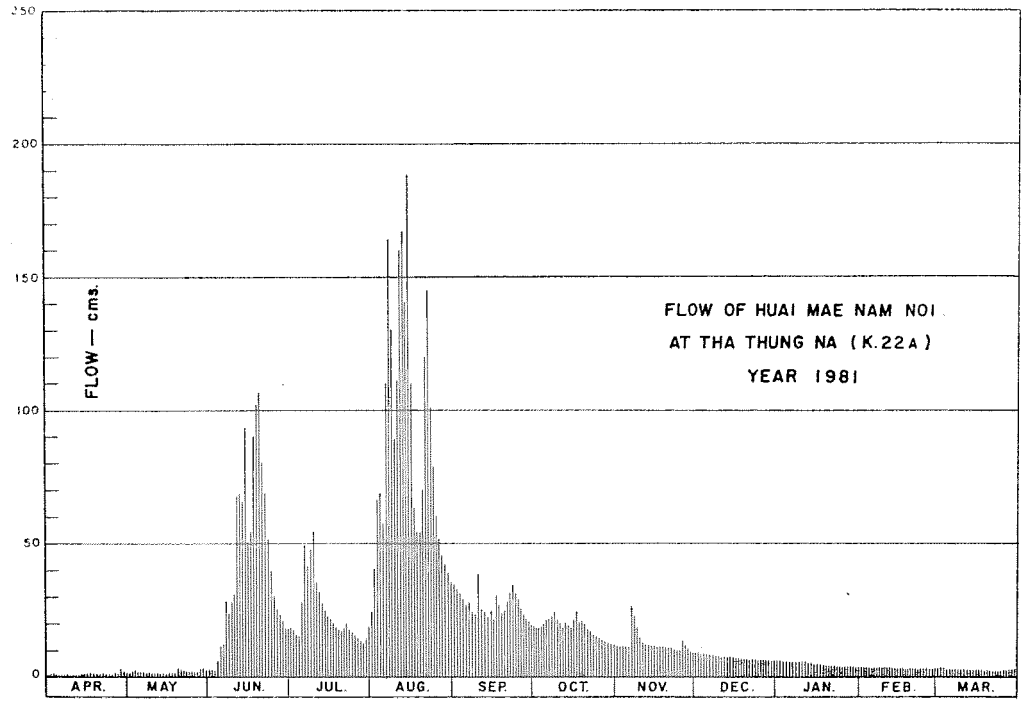
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 121 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	67.18	67.21	67.30	68.08	68.34	68.65	68.10	67.80	67.66	67.52	67.40	67.36	
2	67.17	67.22	67.31	68.09	69.03	68.59	68.07	67.79	67.66	67.51	67.40	67.36	
3	67.23	67.33	67.34	68.03	69.54	68.56	68.08	67.77	67.65	67.51	67.40	67.36	
4	67.19	67.31	67.59	67.96	69.85	68.45	68.11	67.81	67.64	67.50	67.40	67.36	
5	67.19	67.28	67.79	67.98	69.32	68.38	68.16	67.79	67.63	67.50	67.40	67.36	
6	67.18	67.31	67.82	68.78	69.98	68.44	68.27	67.76	67.63	67.50	67.39	67.36	
7	67.18	67.25	68.45	69.10	71.70	68.32	68.19	68.39	67.62	67.50	67.39	67.36	
8	67.18	67.28	68.26	68.87	70.99	68.28	68.24	68.17	67.61	67.49	67.39	67.35	
9	67.18	67.28	68.39	69.10	70.46	68.26	68.34	68.03	67.60	67.49	67.39	67.35	
10	67.18	67.23	68.55	69.24	70.11	68.79	68.19	67.91	67.60	67.49	67.39	67.35	
11	67.18	67.26	69.59	68.78	71.63	68.37	68.16	67.85	67.60	67.49	67.39	67.35	
12	67.17	67.23	69.61	68.60	71.77	68.32	68.08	67.82	67.60	67.49	67.39	67.35	
13	67.18	67.23	69.53	68.47	71.22	68.24	68.19	67.80	67.60	67.48	67.39	67.35	
14	67.21	67.24	70.19	68.36	72.21	68.22	68.10	67.78	67.59	67.47	67.39	67.35	
15	67.23	67.23	69.11	68.27	70.97	68.33	68.07	67.78	67.58	67.47	67.39	67.34	
16	67.20	67.22	69.21	68.22	69.99	68.17	68.16	67.80	67.58	67.46	67.39	67.34	
17	67.20	67.23	70.04	68.17	69.48	68.51	68.31	67.77	67.57	67.46	67.38	67.34	
18	67.19	67.22	70.31	68.11	69.22	68.43	68.18	67.81	67.57	67.45	67.40	67.34	
19	67.19	67.24	70.49	68.08	69.24	68.27	68.19	67.78	67.56	67.43	67.38	67.34	
20	67.19	67.41	70.22	68.03	69.71	68.31	68.13	67.75	67.56	67.42	67.38	67.33	
21	67.21	67.33	69.85	68.03	70.72	68.49	68.05	67.75	67.55	67.41	67.37	67.33	
22	67.20	67.32	69.55	68.15	71.31	68.54	68.01	67.73	67.55	67.41	67.37	67.33	
23	67.19	67.29	69.14	68.04	70.31	68.66	67.96	67.71	67.54	67.41	67.37	67.33	
24	67.19	67.27	68.79	68.03	69.74	68.59	67.95	67.71	67.54	67.41	67.37	67.33	
25	67.19	67.26	68.55	67.99	69.42	68.45	67.91	67.69	67.54	67.40	67.37	67.33	
26	67.23	67.25	68.38	67.93	69.20	68.35	67.88	67.88	67.54	67.40	67.37	67.33	
27	67.21	67.26	68.27	67.90	69.05	68.27	67.87	67.81	67.53	67.40	67.36	67.34	
28	67.34	67.36	68.24	67.89	68.92	68.20	67.85	67.74	67.53	67.40	67.36	67.35	
29	67.24	67.41	68.11	67.85	68.84	68.18	67.84	67.71	67.52	67.40		67.34	
30	67.21	67.35	68.05	67.92	68.75	68.14	67.83	67.68	67.52	67.40		67.39	
31		67.32		68.15	68.67		67.81		67.52	67.40		67.35	
MEAN	67.20	67.28	68.80	68.26	69.99	68.39	68.07	67.82	67.58	67.45	67.38	67.35	
MAX	67.34	67.41	70.49	69.24	72.21	68.79	68.34	68.39	67.66	67.52	67.40	67.39	72.21
MIN	67.17	67.21	67.30	67.85	68.34	68.14	67.81	67.68	67.52	67.40	67.36	67.33	67.17

ANNUAL MAX MOMENTARY GAGE HEIGHT 72.81 M (MSL), AT 14.00 HOURS, ON AUG 14, 1981
ZERO GAGE AT BOTTOM ELEVATION 66.70 M (MSL), RIVER BED 67.11 M (MSL)
LEFT BANK ELEVATION 73.30 M (MSL)
RIGHT BANK ELEVATION 71.30 M (MSL), DRAINAGE AREA 321 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.21	2.20	18.20	25.12	34.35	18.70	11.60	8.56	5.70	3.70	3.10	
2	0.77	1.32	2.35	18.45	47.18	32.50	17.95	11.38	8.56	5.50	3.70	3.10	
3	1.43	2.65	2.80	16.95	66.30	31.60	18.20	10.94	8.35	5.50	3.70	3.10	
4	0.99	2.35	7.10	15.28	78.90	28.30	18.95	11.83	8.14	5.30	3.70	3.10	
5	0.99	1.98	11.38	15.74	57.76	26.24	20.20	11.38	7.93	5.30	3.70	3.10	
6	0.88	2.35	12.06	38.54	84.44	28.00	23.16	10.72	7.93	5.30	3.55	3.10	
7	0.88	1.65	28.30	49.70	163.50	24.56	20.95	26.52	7.72	5.30	3.55	3.10	
8	0.88	1.98	22.88	41.58	129.74	23.44	22.32	20.45	7.51	5.14	3.55	2.95	
9	0.88	1.98	26.52	49.70	105.40	22.88	25.12	16.95	7.30	5.14	3.55	2.95	
10	0.88	1.43	31.30	54.78	90.03	38.87	20.95	14.13	7.30	5.14	3.55	2.95	
11	0.88	1.76	68.30	38.54	160.07	25.96	20.20	12.75	7.30	5.14	3.55	2.95	
12	0.77	1.43	69.10	32.80	166.93	24.56	18.20	12.06	7.30	5.14	3.55	2.95	
13	0.88	1.43	65.90	28.90	140.44	22.32	20.95	11.60	7.30	4.98	3.55	2.95	
14	1.21	1.54	93.47	25.68	188.61	21.76	18.70	11.16	7.10	4.82	3.55	2.95	
15	1.43	1.43	50.06	23.16	128.82	24.84	17.95	11.16	6.90	4.82	3.55	2.80	
16	1.10	1.32	53.67	21.76	84.87	20.45	20.20	11.60	6.90	4.66	3.55	2.80	
17	1.10	1.43	87.02	20.45	63.92	30.10	24.28	10.94	6.70	4.66	3.40	2.80	
18	0.99	1.32	98.74	18.95	54.04	27.70	20.70	11.83	6.70	4.50	3.70	2.80	
19	0.99	1.54	106.75	18.20	54.78	23.16	20.95	11.16	6.50	4.18	3.40	2.80	
20	0.99	3.86	94.78	16.95	73.11	24.28	19.45	10.50	6.50	4.02	3.40	2.65	
21	1.21	2.65	78.90	16.95	117.32	29.50	17.45	10.50	6.30	3.86	3.25	2.65	
22	1.10	2.50	66.70	19.95	144.68	31.00	16.45	10.06	6.30	3.86	3.25	2.65	
23	0.99	2.09	51.14	17.20	98.74	34.66	15.28	9.62	6.10	3.86	3.25	2.65	
24	0.99	1.87	38.87	16.95	74.34	32.50	15.05	9.62	6.10	3.86	3.25	2.65	
25	0.99	1.76	31.30	15.97	61.58	28.30	14.13	9.19	6.10	3.70	3.25	2.65	
26	1.43	1.65	26.24	14.59	53.30	25.40	13.44	13.44	6.10	3.70	3.25	2.65	
27	1.21	1.76	23.16	13.90	47.90	23.16	13.21	11.83	5.90	3.70	3.10	2.80	
28	2.80	3.10	22.32	13.67	43.30	21.20	12.75	10.28	5.90	3.70	3.10	2.95	
29	1.54	3.86	18.95	12.75	40.56	20.70	12.52	9.62	5.70	3.70		2.80	
30	1.21	2.95	17.45	14.36	37.55	19.70	12.29	8.98	5.70	3.70		3.55	
31		2.50		19.95	34.97		11.83		5.70	3.70		2.95	
TOTAL	33.27	62.65	1309.71	740.55	2718.20	801.99	562.48	363.80	214.40	141.58	97.15	89.95	7135.72 CMSDAY
MEAN	1.11	2.02	43.66	23.89	87.68	26.73	18.14	12.13	6.92	4.57	3.47	2.90	19.55 CMS
MAX	2.80	3.86	106.75	54.78	188.61	38.87	25.12	26.52	8.56	5.70	3.70	3.55	188.61 CMS
MIN	0.77	1.21	2.20	12.75	25.12	19.70	11.83	8.98	5.70	3.70	3.10	2.65	0.77 CMS
RUNOFF	2.875	5.413	113.159	63.983	234.852	69.292	48.598	31.432	18.524	12.232	8.394	7.772	616.526 MCM

MOMENTARY PEAK 219.21 CMS, AT 72.81 M (MSL), AT 14.00 HOURS, ON AUG 14, 1981

RUNOFF YIELD 60.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 682.90 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

MAE KLONG RIVER BASIN

KHWAE YAI 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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 1 METER FROM TAMARIN TREE INFRONT OF GAGE OBSERVER'S HOUSE.

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

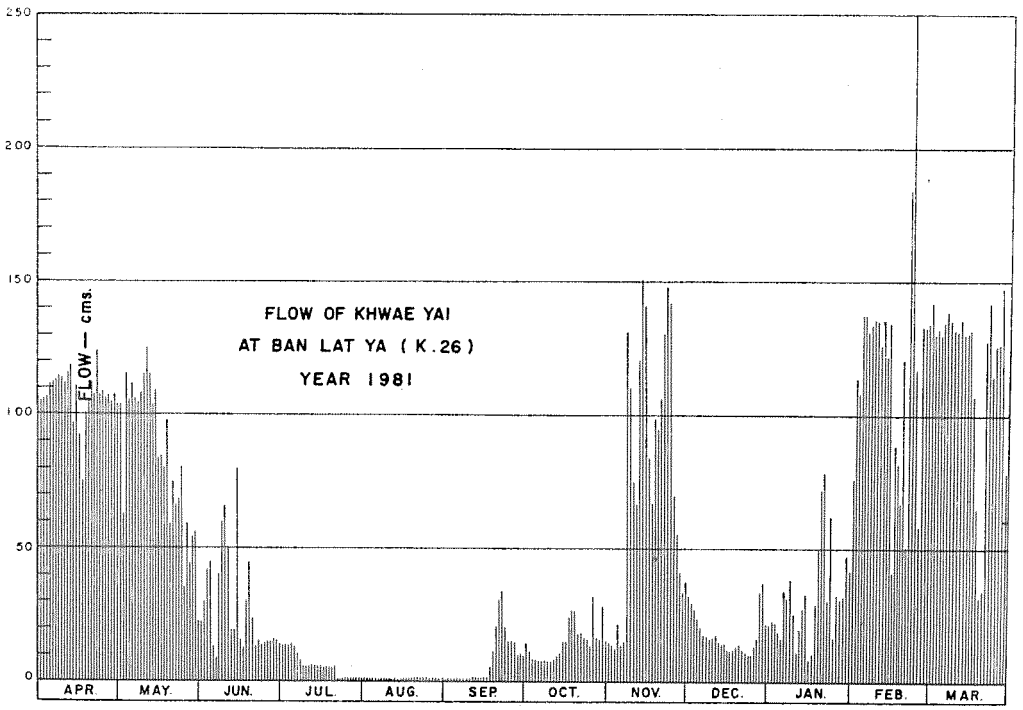
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 25 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.75	1.75	0.61	0.43	-0.16	-0.11	0.47	0.48	0.82	0.62	1.38	2.07	
2	1.77	1.33	0.79	0.45	-0.14	-0.11	0.44	0.46	0.80	0.65	1.52	2.15	
3	1.78	1.88	0.96	0.44	-0.12	-0.11	0.32	0.43	0.75	0.64	1.87	2.03	
4	1.79	1.77	1.02	0.45	-0.09	-0.11	0.30	0.41	0.71	0.57	1.80	2.05	
5	1.84	1.84	0.50	0.47	-0.08	-0.10	0.30	0.63	0.64	0.53	2.10	2.03	
6	1.84	1.80	0.31	0.44	-0.09	-0.10	0.29	0.43	0.58	0.46	2.10	2.07	
7	1.85	1.76	0.73	0.36	-0.11	-0.11	0.28	0.47	0.54	0.82	2.04	2.08	
8	1.86	1.75	1.22	0.32	-0.09	-0.11	0.29	2.04	0.53	0.79	2.03	2.12	
9	1.86	1.82	1.31	0.21	-0.10	-0.11	0.29	1.81	0.51	0.92	2.07	2.09	
10	1.83	1.89	1.17	0.20	-0.08	-0.10	0.27	1.42	0.49	0.58	2.08	2.05	
11	1.84	1.98	1.05	0.21	-0.09	-0.02	0.27	1.32	0.54	0.38	2.07	2.05	
12	1.91	1.88	0.58	0.22	-0.08	-0.06	0.32	1.50	0.52	0.56	1.99	2.04	
13	1.68	1.75	0.58	0.24	-0.08	-0.08	0.36	2.23	0.46	0.69	2.08	2.09	
14	1.83	1.81	1.48	0.21	-0.07	-0.07	0.37	2.16	0.46	0.82	1.94	2.04	
15	1.63	1.52	0.53	0.21	-0.07	-0.02	0.49	1.83	0.46	0.52	2.07	2.03	
16	1.67	1.53	0.42	0.21	-0.07	-0.03	0.47	1.55	0.39	0.31	0.96	2.05	
17	1.49	1.48	0.54	0.20	-0.07	-0.03	0.64	1.31	0.38	0.36	1.58	1.97	
18	1.70	1.68	1.01	0.21	-0.07	0.23	0.71	1.66	0.40	0.64	1.51	1.49	
19	1.75	1.59	0.67	0.21	-0.06	0.42	0.71	1.69	0.42	0.94	1.33	1.14	
20	1.84	1.22	0.65	0.21	-0.04	0.58	0.57	1.64	0.44	1.38	1.63	0.80	
21	1.80	1.43	0.44	0.22	-0.04	0.79	0.52	1.83	0.48	1.46	1.92	0.84	
22	1.97	1.31	0.49	-0.12	-0.04	0.84	0.55	2.09	0.37	1.06	1.12	1.87	
23	1.80	1.33	0.44	-0.11	-0.06	0.64	0.51	2.21	0.37	0.76	2.60	2.15	
24	1.81	1.49	0.46	-0.09	-0.05	0.55	0.51	2.15	0.35	1.26	3.27	1.86	
25	1.78	0.86	0.47	-0.11	-0.06	0.46	0.30	1.74	0.36	0.51	1.89	1.89	
26	1.78	1.23	0.48	-0.12	-0.05	0.51	0.80	1.32	0.44	0.82	1.22	1.99	
27	1.79	1.01	0.48	-0.12	-0.06	0.48	0.53	1.18	0.54	0.78	2.06	2.00	
28	1.75	1.15	0.50	-0.11	-0.06	0.32	0.53	0.97	0.82	0.79	2.05	2.21	
29	1.79	1.18	0.49	-0.12	-0.06	0.37	0.50	0.84	0.89	0.81		1.53	
30	1.76	0.86	0.46	-0.10	-0.06	0.35	0.73	0.91	0.64	1.05		1.46	
31		0.65		-0.11	-0.11		0.48		0.61	0.97		1.85	
MEAN	1.78	1.50	0.69	0.16	-0.08	0.17	0.46	1.36	0.54	0.76	1.87	1.87	
MAX	1.97	1.98	1.48	0.47	-0.04	0.84	0.80	2.23	0.89	1.46	3.27	2.21	3.27
MIN	1.49	0.65	0.31	-0.12	-0.16	-0.11	0.27	0.41	0.35	0.31	0.96	0.80	-0.16

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.75 M (A.D), AT 6.00 HOURS, ON FEB 24, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED M (A.D)
LEFT BANK ELEVATION 13.29 M (A.D)
RIGHT BANK ELEVATION 6.02 M (A.D), DRAINAGE AREA 14479 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	103.50	103.50	30.57	12.70	0.20	0.45	14.30	14.70	32.47	21.13	71.40	134.00	
2	105.30	67.40	30.77	13.50	0.30	0.45	13.10	13.90	31.33	22.83	83.20	142.00	
3	106.20	115.60	40.90	13.10	0.40	0.45	8.70	12.70	28.50	22.27	114.65	130.00	
4	107.10	105.30	44.80	13.50	0.60	0.45	8.00	11.90	26.23	18.65	108.00	132.00	
5	111.80	111.80	15.50	14.30	0.70	0.50	8.00	21.70	22.27	16.85	137.00	130.00	
6	111.80	108.00	8.35	13.10	0.60	0.50	7.70	12.70	19.10	13.90	137.00	134.00	
7	112.75	104.40	27.37	10.10	0.45	0.45	7.40	14.30	17.30	32.47	131.00	135.00	
8	113.70	103.50	58.60	8.70	0.60	0.45	7.70	131.00	16.85	30.77	130.00	139.00	
9	113.70	109.90	65.80	5.30	0.50	0.45	7.70	108.95	15.95	38.30	134.00	136.00	
10	110.85	116.55	54.90	5.00	0.70	0.50	7.10	74.70	15.10	19.10	135.00	132.00	
11	111.80	125.10	46.75	5.30	0.60	1.30	7.10	66.60	17.30	10.80	134.00	132.00	
12	118.45	115.60	19.10	5.60	0.70	0.90	8.70	81.50	16.40	18.20	126.05	131.00	
13	97.20	103.50	19.10	6.20	0.70	0.70	10.10	150.00	13.90	25.10	135.00	136.00	
14	110.85	108.95	79.80	5.30	0.80	0.80	10.45	143.00	13.90	32.47	121.30	131.00	
15	92.70	83.20	16.85	5.30	0.80	1.30	15.10	110.85	13.90	16.40	134.00	130.00	
16	96.30	84.05	12.30	5.30	0.80	1.20	14.30	85.75	11.15	8.35	40.90	132.00	
17	80.65	79.80	17.30	5.00	0.80	1.20	22.27	65.80	10.80	10.10	88.30	124.15	
18	99.00	97.20	44.15	5.30	0.80	5.90	26.23	95.40	11.50	22.27	82.35	80.65	
19	103.50	89.15	23.97	5.30	0.90	12.30	26.23	98.10	12.30	39.60	67.40	52.80	
20	111.80	58.60	22.83	5.30	1.10	19.10	18.65	93.60	13.10	71.40	92.70	31.33	
21	108.00	75.55	13.10	5.60	1.10	30.77	16.40	110.85	14.70	78.10	119.40	33.60	
22	124.15	65.80	15.10	0.40	1.10	33.60	17.75	136.00	10.45	47.40	51.40	114.65	
23	108.00	67.40	13.10	0.45	0.90	22.27	15.95	148.00	10.45	29.07	189.00	142.00	
24	108.95	80.65	13.90	0.60	1.00	17.75	15.95	142.00	9.75	61.80	266.75	113.70	
25	106.20	34.73	14.30	0.45	0.90	13.90	8.00	102.60	10.10	15.95	116.55	116.55	
26	106.20	59.40	14.70	0.40	1.00	15.95	31.33	66.60	13.10	32.47	58.60	126.05	
27	107.10	44.15	14.70	0.40	0.90	14.70	16.85	55.60	17.30	30.20	133.00	127.00	
28	103.50	53.50	15.50	0.45	0.90	8.70	16.85	41.55	32.47	30.77	132.00	148.00	
29	107.10	55.60	15.10	0.40	0.90	10.45	15.50	33.60	36.43	31.90		84.05	
30	104.40	34.73	13.90	0.50	0.90	9.75	27.37	37.65	22.27	46.75		78.10	
31		22.83		0.45	0.45		14.70		20.57	41.55		112.75	
TOTAL	3202.55	2585.44	813.11	173.30	23.10	227.19	445.48	2281.60	556.94	936.92	3269.95	3621.38	18136.94 CMSDAY
MEAN	106.75	83.40	27.10	5.59	0.75	7.57	14.37	76.05	17.97	30.22	116.78	116.82	49.69 CMS
MAX	124.15	125.10	79.80	14.30	1.10	33.60	31.33	150.00	36.43	78.10	266.75	148.00	266.75 CMS
MIN	80.65	22.83	8.35	0.40	0.20	0.45	7.10	11.90	9.75	8.35	40.90	31.33	0.20 CMS
RUNOFF	276.700	223.382	70.253	14.973	1.996	19.629	38.489	197.130	48.120	80.950	282.523	312.887	1567.031 MCM

MOMENTARY PEAK 329.25 CMS, AT 3.75 M (A.D), AT 6.00 HOURS, ON FEB 24, 1981

RUNOFF YIELD 3.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 22.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

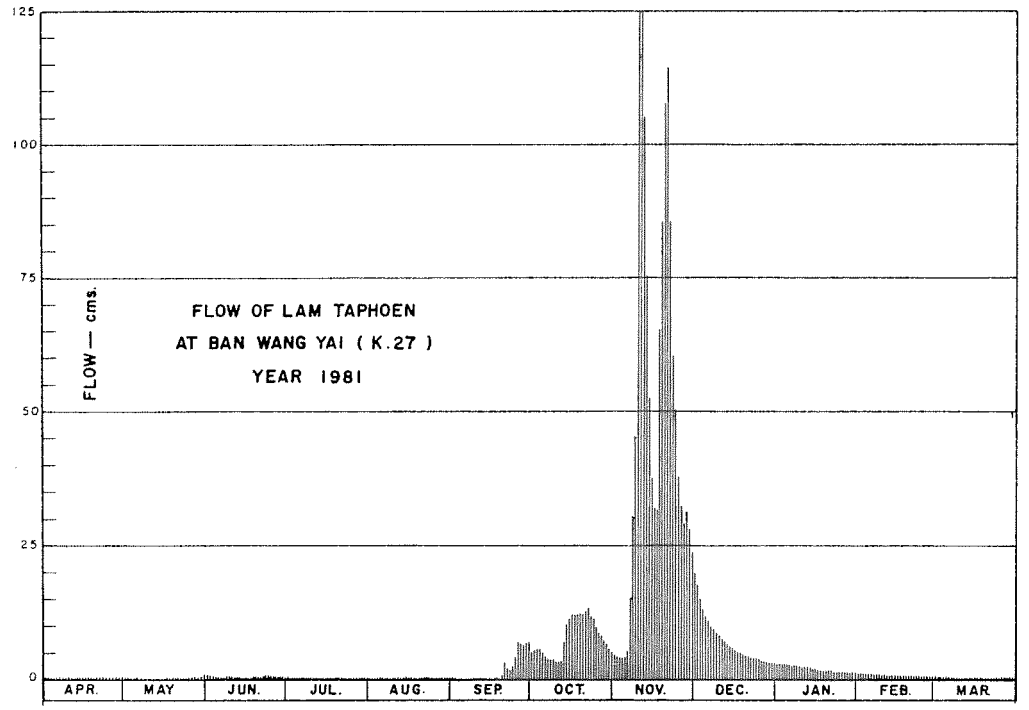
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.68	1.19	0.93	0.84	0.82	2.51	2.40	3.99	1.97	1.39	1.17	
2	0.63	0.68	1.15	0.91	0.83	0.82	2.57	2.31	3.81	1.94	1.38	1.16	
3	0.61	0.67	1.10	0.89	0.81	0.82	2.61	2.24	3.68	1.92	1.38	1.15	
4	0.63	0.68	1.06	0.88	0.80	0.82	2.63	2.22	3.56	1.90	1.38	1.14	
5	0.63	0.68	1.02	0.87	0.79	0.73	2.54	2.29	3.43	1.87	1.34	1.13	
6	0.63	0.69	1.01	0.84	0.79	0.74	2.40	2.48	3.35	1.85	1.33	1.12	
7	0.62	0.67	1.00	0.83	0.80	0.72	2.25	3.56	3.27	1.86	1.32	1.12	
8	0.62	0.68	0.98	0.82	0.81	0.71	2.19	4.59	3.18	1.84	1.31	1.10	
9	0.62	0.68	0.97	0.81	0.80	0.71	2.22	5.48	3.09	1.81	1.30	1.11	
10	0.62	0.69	0.96	0.79	0.79	0.71	2.06	6.59	2.99	1.79	1.29	1.10	
11	0.62	0.70	0.96	0.80	0.84	0.71	2.08	6.48	2.91	1.75	1.28	1.09	
12	0.62	0.70	0.95	0.80	0.90	0.71	2.05	6.34	2.83	1.73	1.28	1.08	
13	0.62	0.71	0.93	0.79	0.92	0.71	2.79	5.90	2.78	1.71	1.27	1.08	
14	0.64	0.88	0.94	0.79	0.93	0.71	3.23	5.37	2.72	1.69	1.27	1.06	
15	0.68	0.90	0.94	0.78	0.93	0.76	3.32	4.92	2.66	1.67	1.26	1.05	
16	0.67	0.92	0.94	0.77	0.93	0.80	3.41	4.53	2.60	1.64	1.24	1.06	
17	0.65	0.93	0.95	0.82	0.93	0.83	3.40	4.50	2.53	1.63	1.22	1.06	
18	0.66	0.90	0.98	0.80	0.94	0.88	3.40	5.53	2.46	1.61	1.22	1.04	
19	0.66	0.88	1.02	0.78	0.95	0.92	3.44	6.02	2.42	1.58	1.23	1.04	
20	0.65	0.88	1.02	0.79	0.93	1.38	3.41	6.25	2.37	1.56	1.23	1.05	
21	0.67	0.87	1.04	0.78	0.92	2.03	3.45	6.34	2.33	1.54	1.21	1.02	
22	0.65	0.86	1.04	0.79	0.91	1.51	3.52	6.08	2.30	1.53	1.21	1.02	
23	0.67	0.86	1.07	0.79	0.88	1.37	3.49	5.59	2.26	1.52	1.19	0.99	
24	0.66	0.85	1.07	0.78	0.87	1.66	3.36	5.16	2.21	1.50	1.19	0.99	
25	0.65	0.84	1.06	0.77	0.85	2.31	3.21	4.76	2.18	1.48	1.18	0.99	
26	0.65	0.83	1.04	0.79	0.89	2.80	3.07	4.56	2.14	1.47	1.18	1.00	
27	0.67	0.83	1.01	0.83	0.91	2.84	3.00	4.41	2.10	1.46	1.16	1.02	
28	0.68	0.87	0.98	0.86	0.91	2.67	2.90	4.48	2.07	1.45	1.15	1.00	
29	0.67	1.03	0.96	0.87	0.88	2.79	2.77	4.40	2.04	1.44		1.04	
30	0.67	1.17	0.93	0.87	0.86	2.84	2.63	4.19	2.02	1.43		1.06	
31		1.19		0.86	0.84		2.50		1.99	1.41		1.06	
MEAN	0.64	0.82	1.01	0.82	0.87	1.29	2.85	4.67	2.72	1.66	1.26	1.07	
MAX	0.68	1.19	1.19	0.93	0.95	2.84	3.52	6.59	3.99	1.97	1.39	1.17	6.59
MIN	0.61	0.67	0.93	0.77	0.79	0.71	2.05	2.22	1.99	1.41	1.15	0.99	0.61

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.65 M (A.D), AT 7.00 HOURS, ON NOV 10, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.70 M (A.D)
LEFT BANK ELEVATION 6.71 M (A.D)
RIGHT BANK ELEVATION 7.28 M (A.D), DRAINAGE AREA 1921 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL I, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.03	0.08	0.78	0.39	0.26	0.23	5.06	4.50	20.81	2.90	1.24	0.75	
2	0.03	0.08	0.72	0.37	0.24	0.23	5.42	4.14	17.48	2.80	1.22	0.74	
3	0.01	0.07	0.65	0.34	0.21	0.23	5.66	3.86	15.42	2.73	1.22	0.72	
4	0.03	0.08	0.59	0.32	0.20	0.23	5.78	3.78	13.74	2.67	1.22	0.71	
5	0.03	0.08	0.53	0.30	0.19	0.13	5.24	4.06	12.13	2.57	1.13	0.69	
6	0.03	0.09	0.51	0.26	0.19	0.14	4.50	4.90	11.30	2.50	1.10	0.68	
7	0.02	0.07	0.50	0.24	0.20	0.12	3.90	13.74	10.50	2.53	1.08	0.68	
8	0.02	0.08	0.47	0.23	0.21	0.11	3.66	33.76	9.64	2.47	1.06	0.65	
9	0.02	0.08	0.45	0.21	0.20	0.11	3.78	62.56	8.92	2.37	1.03	0.66	
10	0.02	0.09	0.44	0.19	0.19	0.11	3.21	136.60	8.12	2.30	1.01	0.65	
11	0.02	0.10	0.44	0.20	0.26	0.11	3.28	126.65	7.48	2.17	0.99	0.63	
12	0.02	0.10	0.42	0.20	0.35	0.11	3.17	114.36	6.98	2.10	0.99	0.62	
13	0.02	0.11	0.39	0.19	0.38	0.11	6.74	83.75	6.68	2.03	0.96	0.62	
14	0.04	0.32	0.41	0.19	0.39	0.11	10.10	58.00	6.32	1.97	0.96	0.59	
15	0.08	0.35	0.41	0.18	0.39	0.16	11.00	42.70	5.96	1.92	0.94	0.58	
16	0.07	0.38	0.41	0.17	0.39	0.20	11.91	32.32	5.60	1.85	0.89	0.59	
17	0.05	0.39	0.42	0.23	0.39	0.24	11.80	31.60	5.18	1.82	0.85	0.59	
18	0.06	0.35	0.47	0.20	0.41	0.32	11.80	64.70	4.80	1.77	0.85	0.56	
19	0.06	0.32	0.53	0.18	0.42	0.38	12.24	91.30	4.60	1.70	0.87	0.56	
20	0.05	0.32	0.53	0.19	0.39	1.22	11.91	107.15	4.38	1.65	0.87	0.58	
21	0.07	0.30	0.56	0.18	0.38	3.10	12.35	114.36	4.22	1.60	0.82	0.53	
22	0.05	0.29	0.56	0.19	0.37	1.52	13.18	95.20	4.10	1.57	0.82	0.53	
23	0.07	0.29	0.61	0.19	0.32	1.20	12.79	67.31	3.94	1.55	0.78	0.48	
24	0.06	0.27	0.61	0.18	0.30	1.90	11.40	50.34	3.74	1.50	0.78	0.48	
25	0.05	0.26	0.59	0.17	0.27	4.14	9.90	38.21	3.63	1.45	0.77	0.48	
26	0.05	0.24	0.56	0.19	0.34	6.80	8.76	33.04	3.49	1.43	0.77	0.50	
27	0.07	0.24	0.51	0.24	0.37	7.04	8.20	29.48	3.35	1.41	0.74	0.53	
28	0.08	0.30	0.47	0.29	0.37	6.02	7.40	31.13	3.24	1.38	0.72	0.50	
29	0.07	0.54	0.44	0.30	0.32	6.74	6.62	29.25	3.14	1.36		0.56	
30	0.07	0.75	0.39	0.30	0.29	7.04	5.78	24.80	3.07	1.34		0.59	
31		0.78		0.29	0.26		5.00		2.97	1.29		0.59	
TOTAL	1.35	7.80	15.37	7.30	9.45	50.10	241.54	1537.55	224.93	60.70	26.68	18.62	2201.39 CMSDAY
MEAN	0.04	0.25	0.51	0.24	0.30	1.67	7.79	51.25	7.26	1.96	0.95	0.60	6.03 CMS
MAX	0.08	0.78	0.78	0.39	0.42	7.04	13.18	136.60	20.81	2.90	1.24	0.75	136.60 CMS
MIN	0.01	0.07	0.39	0.17	0.19	0.11	3.17	3.78	2.97	1.29	0.72	0.48	0.01 CMS
RUNOFF	0.117	0.674	1.328	0.631	0.816	4.329	20.869	132.844	19.434	5.244	2.305	1.609	190.200 MCM

MOMENTARY PEAK 143.25 CMS, AT 6.65 M (A.D), AT 7.00 HOURS, ON NOV 10, 1981

RUNOFF YIELD 3.14 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 74.57 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +12.00 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE ABUTMENT OF PHET BARRAGE.

ELEVATION — +23.00 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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1960-1961, 1965-1979

STABILITY OF CHANNEL REGIMES — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

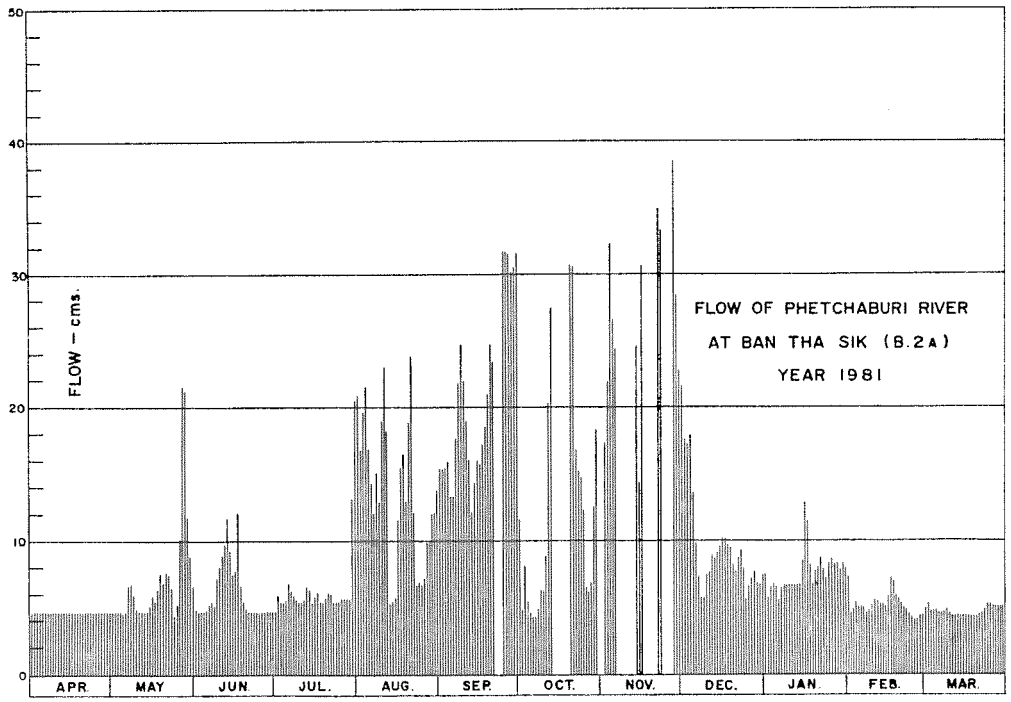
OVERBANK FLOW CONDITIONS — OVERBANK FLOW, STARTS AT ELEVATION +18.02 M. (M.S.L.) AND IS INCLUDED.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 12 DISCHARGE MEASUREMENTS MADE IN 1981. FLOW REGULATED BY KAENG KRACHAN RESERVOIR AND PHET BARRAGE AT ABOVE GAGE SITE FOR IRRIGATION OF ABOUT 27,800 HECTARES.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	12.14	12.14	12.15	12.14	12.65	12.51	12.32	13.10	12.67	12.26	12.25	12.14	
2	12.14	12.14	12.14	12.19	12.55	12.51	12.15	12.56	12.62	12.19	12.14	12.17	
3	12.14	12.14	12.14	12.17	12.61	12.51	12.24	12.66	12.56	12.22	12.15	12.15	
4	12.14	12.14	12.14	12.17	12.67	12.52	12.19	12.89	12.58	12.23	12.17	12.15	
5	12.14	12.14	12.14	12.18	12.54	12.44	12.14	12.79	12.50	12.23	12.16	12.15	
6	12.14	12.14	12.16	12.23	12.47	12.46	12.12	12.73	12.35	12.18	12.16	12.14	
7	12.14	12.22	12.17	12.21	12.41	12.54	12.13	13.77	12.25	12.22	12.16	12.14	
8	12.14	12.23	12.16	12.19	12.50	12.65	12.16	18.57	12.19	12.23	12.14	12.14	
9	12.14	12.20	12.24	12.18	12.44	12.74	12.21	19.47	12.18	12.23	12.15	12.15	
10	12.14	12.15	12.27	12.17	12.61	12.66	12.21	18.12	12.25	12.23	12.16	12.14	
11	12.14	12.14	12.29	12.17	12.70	12.57	12.33	15.66	12.26	12.23	12.18	12.13	
12	12.14	12.14	12.33	12.18	12.51	12.49	12.64	14.28	12.31	12.23	12.18	12.13	
13	12.14	12.14	12.40	12.22	12.17	12.41	12.79	13.65	12.30	12.23	12.17	12.13	
14	12.14	12.14	12.30	12.21	12.17	12.53	12.80	12.74	12.32	12.23	12.17	12.13	
15	12.14	12.16	12.25	12.17	12.18	12.53	13.20	12.48	12.33	12.27	12.16	12.13	
16	12.14	12.19	12.27	12.19	12.36	12.52	13.08	12.86	12.35	12.44	12.17	12.13	
17	12.14	12.17	12.41	12.20	12.50	12.56	12.60	13.76	12.35	12.39	12.24	12.13	
18	12.14	12.20	12.23	12.17	12.54	12.62	13.44	14.01	12.33	12.29	12.25	12.13	
19	12.14	12.25	12.18	12.17	12.45	12.63	13.89	13.99	12.33	12.23	12.20	12.13	
20	12.14	12.23	12.14	12.18	12.64	12.74	13.47	13.96	12.31	12.27	12.19	12.13	
21	12.14	12.26	12.14	12.20	12.72	12.69	12.86	13.67	12.24	12.28	12.18	12.13	
22	12.14	12.25	12.14	12.20	12.32	13.05	12.56	12.94	12.31	12.30	12.16	12.14	
23	12.14	12.22	12.14	12.17	12.23	13.07	12.50	12.91	12.32	12.27	12.15	12.15	
24	12.14	12.13	12.14	12.17	12.23	13.03	12.50	13.09	12.27	12.25	12.14	12.17	
25	12.14	12.16	12.14	12.17	12.22	12.88	12.43	13.15	12.18	12.29	12.13	12.17	
26	12.14	12.23	12.14	12.18	12.24	12.88	12.21	13.12	12.23	12.30	12.12	12.16	
27	12.14	12.67	12.14	12.18	12.34	12.88	12.20	13.08	12.25	12.29	12.12	12.16	
28	12.14	12.66	12.14	12.18	12.34	12.85	12.25	13.00	12.26	12.29	12.13	12.16	
29	12.14	12.41	12.14	12.18	12.41	12.86	12.46	12.89	12.23	12.27		12.16	
30	12.14	12.31	12.14	12.34	12.42	12.88	12.59	12.70	12.23	12.29		12.16	
31		12.23		12.64	12.47		13.40		12.26	12.28		12.18	
MEAN	12.14	12.22	12.20	12.20	12.44	12.67	12.58	13.82	12.33	12.26	12.17	12.15	
MAX	12.14	12.67	12.41	12.64	12.72	13.07	13.89	19.47	12.67	12.44	12.25	12.18	19.47
MIN	12.14	12.13	12.14	12.14	12.17	12.41	12.12	12.48	12.18	12.18	12.12	12.13	12.12

ANNUAL MAX MOMENTARY GAGE HEIGHT 19.47 M (MSL), AT 18.00 HOURS, ON NOV 9, 1981
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 22.98 M (MSL), DRAINAGE AREA 4060 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.20	4.20	4.50	4.20	19.50	15.30	9.60	39.00	20.10	7.80	7.50	4.20	
2	4.20	4.20	4.20	5.70	16.50	15.30	4.50	16.80	18.60	5.70	4.20	5.10	
3	4.20	4.20	4.20	5.10	18.30	15.30	7.20	19.80	16.80	6.60	4.50	4.50	
4	4.20	4.20	4.20	3.10	20.10	15.60	5.70	28.60	17.40	6.90	5.10	4.50	
5	4.20	4.20	4.20	5.40	16.20	13.20	4.20	24.60	15.00	6.90	4.80	4.50	
6	4.20	4.20	4.80	6.90	14.10	13.80	3.60	22.20	10.50	5.40	4.80	4.20	
7	4.20	6.60	5.10	6.30	12.30	16.20	3.90	85.00	7.50	6.60	4.80	4.20	
8	4.20	6.90	4.80	5.70	15.00	19.50	4.80	943.20	5.70	6.90	4.20	4.20	
9	4.20	6.00	7.20	5.40	13.20	22.60	6.30	1185.66	5.40	6.90	4.50	4.50	
10	4.20	4.50	8.10	5.10	18.30	19.80	6.30	827.80	7.50	6.90	4.80	4.20	
11	4.20	4.20	8.70	5.10	21.00	17.10	9.90	313.00	7.80	6.90	5.40	3.90	
12	4.20	4.20	9.90	5.40	15.30	14.70	19.20	136.00	9.30	6.90	5.40	3.90	
13	4.20	4.20	12.00	6.60	5.10	12.30	24.60	74.00	9.00	6.90	5.10	3.90	
14	4.20	4.20	9.00	6.30	5.10	15.90	25.00	22.60	9.60	6.90	5.10	3.90	
15	4.20	4.80	7.50	5.10	5.40	15.90	44.00	14.40	9.90	8.10	4.80	3.90	
16	4.20	5.70	8.10	5.70	10.80	15.60	38.00	27.40	10.50	13.20	5.10	3.90	
17	4.20	5.10	12.30	6.00	15.00	16.80	18.00	84.00	10.50	11.70	7.20	3.90	
18	4.20	6.00	6.90	5.10	16.20	18.60	58.80	109.00	9.90	8.70	7.50	3.90	
19	4.20	7.50	5.40	5.10	13.50	18.90	97.00	107.00	9.90	6.90	6.00	3.90	
20	4.20	6.90	4.20	5.40	19.20	22.60	60.90	104.00	9.30	8.10	5.70	3.90	
21	4.20	7.80	4.20	6.00	21.80	20.70	27.40	75.60	7.20	8.40	5.40	3.90	
22	4.20	7.50	4.20	6.00	9.60	36.50	16.80	31.00	9.30	9.00	4.80	4.20	
23	4.20	6.60	4.20	5.10	6.90	37.50	15.00	29.50	9.60	8.10	4.50	4.50	
24	4.20	3.90	4.20	5.10	6.90	35.50	15.00	38.50	8.10	7.50	4.20	5.10	
25	4.20	4.80	4.20	5.10	6.60	28.20	12.90	41.50	5.40	8.70	3.90	5.10	
26	4.20	6.90	4.20	5.40	7.20	28.20	6.30	40.00	6.90	9.00	3.60	4.80	
27	4.20	20.10	4.20	5.40	10.20	28.20	6.00	38.00	7.50	8.70	3.60	4.80	
28	4.20	19.80	4.20	5.40	10.20	27.00	7.50	34.00	7.80	8.70	3.90	4.80	
29	4.20	12.30	4.20	5.40	12.30	27.40	13.80	28.60	6.90	8.10		4.80	
30	4.20	9.30	4.20	10.20	12.60	28.20	17.70	21.00	6.90	8.70		4.80	
31		6.90		19.20	14.10		56.00		7.80	8.40		5.40	
TOTAL	126.00	207.90	177.30	189.00	408.50	632.40	645.90	4561.76	303.60	244.20	140.40	135.30	7772.25 CMSDAY
MEAN	4.20	6.71	5.91	6.10	13.18	21.08	20.84	152.06	9.79	7.88	5.01	4.36	21.29 CMS
MAX	4.20	20.10	12.30	19.20	21.80	37.50	97.00	1185.66	20.10	13.20	7.50	5.40	1185.66 CMS
MIN	4.20	3.90	4.20	4.20	5.10	12.30	3.60	14.40	5.40	5.40	3.60	3.90	3.60 CMS
RUNOFF	10.866	17.963	15.319	16.330	35.294	54.639	55.806	394.136	26.231	21.099	12.131	11.690	671.523 MCM

MOMENTARY PEAK 1185.66 CMS, AT 19.47 M (MSL), AT 18.00 HOURS, ON NOV 9, 1981

RUNOFF YIELD 5.24 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 292.03 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PHETCHABURI RIVER BASIN

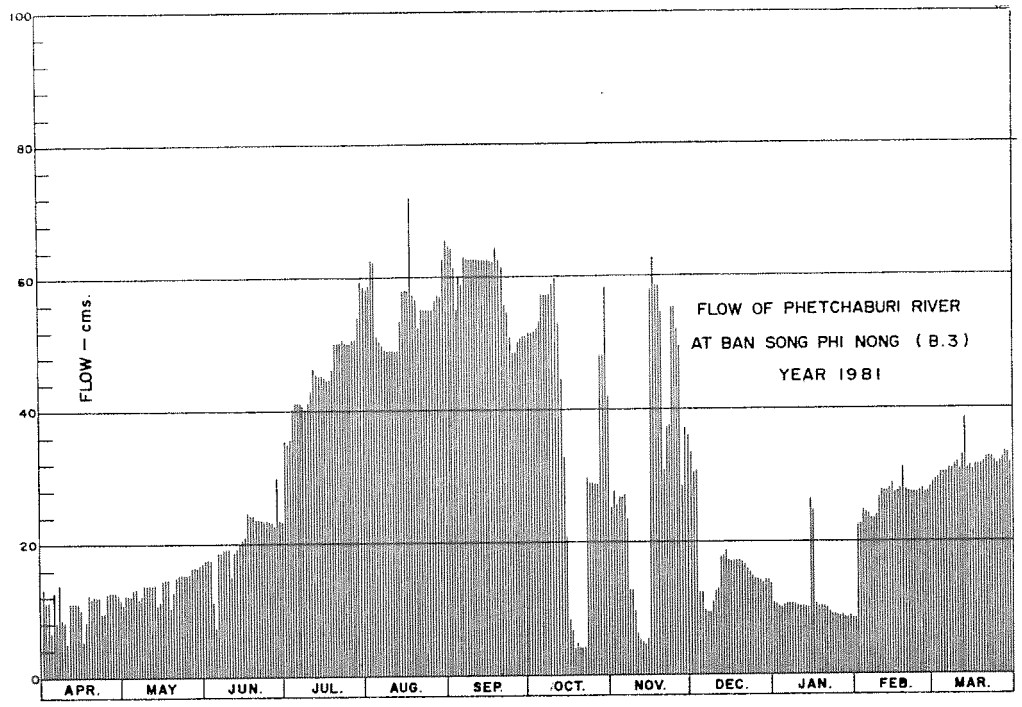
PHETCHABURI RIVER AT BAN SONG PHI NONG, PHETCHABURI (B.3)

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 AT	+40.998 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	NEAR THE TOP 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 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1980. FLOW REGULATED BY KAENG KRACHAN RESERVOIR.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	42.19	42.11	42.31	42.73	43.18	43.31	43.06	42.51	42.70	42.10	42.20	42.59	
2	42.11	42.16	42.31	42.72	43.20	43.30	43.06	42.57	42.63	42.10	42.45	42.60	
3	42.12	42.16	42.31	42.75	43.27	43.30	43.06	42.52	42.63	42.09	42.45	42.60	
4	41.94	42.16	42.20	42.83	43.26	43.12	43.07	42.54	42.16	42.09	42.50	42.62	
5	42.17	42.18	41.99	42.85	43.05	43.22	43.10	42.54	42.17	42.10	42.49	42.62	
6	42.02	42.19	42.34	42.85	43.04	43.20	43.17	42.55	42.07	42.10	42.49	42.62	
7	42.21	42.14	42.34	42.85	43.03	43.28	43.17	42.47	42.06	42.10	42.47	42.64	
8	42.03	42.15	42.35	42.84	43.02	43.27	43.17	42.17	42.06	42.10	42.47	42.64	
9	42.01	42.20	42.35	42.83	43.01	43.27	43.17	42.17	42.12	42.10	42.49	42.65	
10	41.90	42.20	42.35	42.85	43.01	43.27	43.20	42.04	42.17	42.09	42.55	42.66	
11	42.12	42.20	42.27	42.88	43.01	43.27	43.22	41.93	42.18	42.09	42.57	42.63	
12	42.12	42.20	42.34	42.95	43.01	43.27	43.16	41.90	42.32	42.09	42.57	42.68	
13	42.12	42.20	42.37	42.94	43.01	43.27	42.98	41.88	42.32	42.09	42.57	42.80	
14	42.12	42.11	42.38	42.93	43.08	43.27	42.71	41.87	42.33	42.09	42.57	42.64	
15	42.07	42.13	42.39	42.93	43.18	43.27	42.56	41.93	42.34	42.54	42.59	42.65	
16	41.90	42.23	42.40	42.93	43.18	43.27	42.03	43.18	42.30	42.49	42.56	42.63	
17	42.01	42.23	42.49	42.92	43.18	43.27	41.95	43.27	42.30	42.10	42.56	42.65	
18	42.16	42.23	42.48	42.92	43.44	43.27	41.82	43.20	42.30	42.09	42.57	42.65	
19	42.14	42.09	42.48	42.95	43.17	43.30	41.88	43.19	42.30	42.09	42.64	42.65	
20	42.15	42.20	42.47	43.03	43.16	43.28	41.85	43.08	42.30	42.09	42.57	42.65	
21	42.15	42.24	42.47	43.03	43.08	43.25	41.84	42.64	42.28	42.09	42.57	42.67	
22	42.15	42.25	42.47	43.03	43.13	43.14	41.84	42.77	42.27	42.07	42.56	42.67	
23	42.06	42.25	42.46	43.04	43.13	43.12	42.61	42.78	42.25	42.05	42.56	42.67	
24	42.07	42.25	42.46	43.03	43.13	43.04	42.59	43.14	42.24	42.05	42.56	42.67	
25	42.16	42.25	42.46	43.03	43.13	43.00	42.59	43.14	42.22	42.05	42.57	42.65	
26	42.17	42.26	42.46	43.03	43.13	43.00	42.59	43.09	42.22	42.04	42.57	42.66	
27	42.17	42.28	42.45	43.04	43.16	43.03	42.59	43.02	42.21	42.05	42.56	42.67	
28	42.17	42.28	42.61	43.04	43.17	43.04	42.99	42.58	42.21	42.03	42.56	42.69	
29	42.17	42.28	42.46	43.11	43.17	43.05	42.99	42.77	42.22	42.03		42.69	
30	42.13	42.29	42.46	43.21	43.21	43.05	43.19	42.78	42.22	42.04		42.66	
31		42.30		43.20	43.33		42.84		42.21	42.03		42.68	
MEAN	42.10	42.21	42.39	42.94	43.14	43.20	42.71	42.61	42.27	42.11	42.53	42.65	
MAX	42.21	42.30	42.61	43.21	43.44	43.31	43.22	43.27	42.70	42.54	42.64	42.80	43.44
MIN	41.90	42.09	41.99	42.72	43.01	43.00	41.82	41.87	42.06	42.03	42.20	42.59	41.82

ANNUAL MAX MOMENTARY GAGE HEIGHT 43.89 M (MSL), AT 18.00 HOURS, ON AUG 18, 1981
ZERO GAGE AT BOTTOM ELEVATION 41.00 M (MSL), RIVER BED 40.61 M (MSL)
LEFT BANK ELEVATION 47.84 M (MSL)
RIGHT BANK ELEVATION 48.27 M (MSL), DRAINAGE AREA 2244 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	13.20	10.80	17.38	35.28	57.74	64.74	51.50	25.25	33.90	10.50	13.50	28.89	
2	10.80	12.30	17.38	34.82	58.80	64.20	51.50	27.99	30.71	10.50	22.80	29.35	
3	11.10	12.30	17.38	36.20	62.58	64.20	51.50	25.71	30.71	10.23	22.80	29.35	
4	6.24	12.30	13.50	40.00	62.04	54.56	52.00	26.62	12.30	10.23	24.80	30.26	
5	12.60	12.90	7.54	41.00	51.00	59.88	53.50	26.62	12.60	10.50	24.40	30.26	
6	8.34	13.20	18.52	41.00	50.50	58.80	57.21	27.07	9.69	10.50	24.40	30.26	
7	13.85	11.70	18.52	41.00	50.00	63.12	57.21	23.60	9.42	10.50	23.60	31.17	
8	8.61	12.00	18.90	40.50	49.50	62.58	57.21	12.60	9.42	10.50	23.60	31.17	
9	8.07	13.50	18.90	40.00	49.00	62.58	57.21	12.60	11.10	10.50	24.40	31.62	
10	5.20	13.50	18.90	41.00	49.00	62.58	58.80	8.88	12.60	10.23	27.07	32.08	
11	11.10	13.50	15.95	42.50	49.00	62.58	59.88	5.98	12.90	10.23	27.99	30.71	
12	11.10	13.50	18.52	46.00	49.00	62.58	56.68	5.20	17.76	10.23	27.99	32.99	
13	11.10	13.50	19.66	45.50	49.00	62.58	47.50	4.86	17.76	10.23	27.99	38.50	
14	11.10	10.80	20.04	45.00	52.50	62.58	34.36	4.69	18.14	10.23	27.99	31.17	
15	9.69	11.40	20.42	45.00	57.74	62.58	27.53	5.98	18.52	26.62	28.89	31.62	
16	5.20	14.55	20.80	45.00	57.74	62.58	8.61	57.74	17.00	24.40	27.53	30.71	
17	8.07	14.55	24.40	44.50	57.74	62.58	6.50	62.58	17.00	10.50	27.53	31.62	
18	12.30	14.55	24.00	44.50	71.76	62.58	3.84	58.80	17.00	10.23	27.99	31.62	
19	11.70	10.23	24.00	46.00	57.21	64.20	4.86	58.27	17.00	10.23	31.17	31.62	
20	12.00	13.50	23.60	50.00	56.68	63.12	4.35	52.50	17.00	10.23	27.99	31.62	
21	12.00	14.90	23.60	50.00	52.50	61.50	4.18	31.17	16.30	10.23	27.99	32.54	
22	12.00	15.25	23.60	50.00	55.09	55.62	4.18	37.12	15.95	9.69	27.53	32.54	
23	9.42	15.25	23.20	50.50	55.09	54.56	29.80	37.58	15.25	9.15	27.53	32.54	
24	9.69	15.25	23.20	50.00	55.09	50.50	28.89	55.62	14.90	9.15	27.53	32.54	
25	12.30	15.25	23.20	50.00	55.09	48.50	28.89	55.62	14.20	9.15	27.99	31.62	
26	12.60	15.60	23.20	50.00	55.09	48.50	28.89	53.00	14.20	8.88	27.99	32.08	
27	12.60	16.30	22.80	50.50	56.68	50.00	28.89	49.50	13.85	9.15	27.53	32.54	
28	12.60	16.30	29.80	50.50	57.21	50.50	48.00	28.44	13.85	8.61	27.53	33.44	
29	12.60	16.30	23.20	54.03	57.21	51.00	48.00	37.12	14.20	8.61		33.44	
30	11.40	16.65	23.20	59.34	59.34	51.00	58.27	37.58	14.20	8.88		32.08	
31		17.00		58.80	65.82		40.50		13.85	8.61		32.99	
TOTAL	318.58	428.63	617.31	1418.47	1722.74	1766.88	1150.24	956.29	503.28	337.43	736.05	984.94	10940.83 CMSDAY
MEAN	10.62	13.83	20.58	45.76	55.57	58.90	37.10	31.88	16.23	10.88	26.29	31.77	29.97 CMS
MAX	13.85	17.00	29.80	59.34	71.76	64.74	59.88	62.58	33.90	26.62	31.17	38.50	71.76 CMS
MIN	5.20	10.23	7.54	34.82	49.00	48.50	3.84	4.69	9.42	8.61	13.50	28.89	3.84 CMS
RUNOFF	27.525	37.034	53.336	122.556	148.845	152.658	99.381	82.623	43.483	29.154	63.595	85.099	945.287 MCM

MOMENTARY PEAK 99.35 CMS, AT 43.89 M (MSL), AT 18.00 HOURS, ON AUG 18, 1981
RUNOFF YIELD 13.36 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 44.27 LITERS/SECOND/SQUARE KM.

WATER YEAR 1981

PHETCHABURI RIVER BASIN

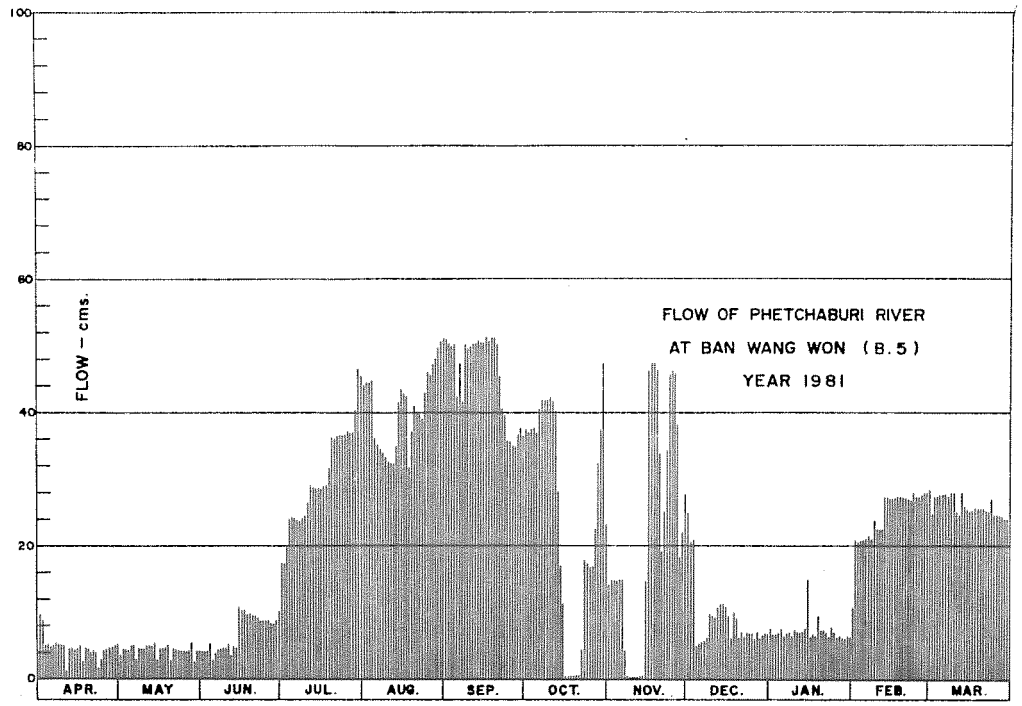
PHETCHABURI RIVER AT BAN WANG WON, PHETCHABURI (B.5)

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 AT	+48.485 M.(M.S.L.)
BENCH MARK	B.M.-H.D. NO.11
LOCATION	BEHIND THE B.5 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 6 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	48.59	48.19	48.28	48.91	49.73	49.89	49.55	48.80	49.12	48.47	48.62	49.29	
2	48.54	48.30	48.28	48.91	49.74	49.88	49.54	48.81	49.03	48.42	49.04	49.18	
3	48.34	48.29	48.28	49.05	49.74	49.89	49.55	48.81	49.03	48.43	49.03	49.26	
4	48.36	48.28	48.34	49.15	49.67	49.69	49.56	48.81	48.32	48.44	49.04	49.26	
5	48.33	48.28	48.18	49.16	49.51	49.88	49.54	48.81	48.35	48.45	49.04	49.27	
6	48.34	48.35	48.29	49.15	49.51	49.68	49.63	48.81	48.37	48.41	49.05	49.27	
7	48.36	48.19	48.29	49.15	49.49	49.89	49.68	48.30	48.38	48.43	49.06	49.28	
8	48.34	48.31	48.30	49.14	49.46	49.88	49.68	47.77	48.40	48.44	49.05	49.27	
9	48.34	48.31	48.30	49.15	49.43	49.88	49.68	47.75	48.57	48.39	49.14	49.28	
10	48.36	48.31	48.30	49.17	49.42	49.89	49.69	47.74	48.57	48.46	49.23	49.28	
11	48.00	48.33	48.35	49.25	49.41	49.89	49.68	47.74	48.56	48.44	49.23	49.18	
12	48.31	48.33	48.21	49.31	49.40	49.89	49.62	47.74	48.63	48.44	49.23	49.17	
13	48.30	48.33	48.33	49.30	49.48	49.90	49.27	47.73	48.66	48.44	49.26	49.28	
14	48.29	48.35	48.32	49.30	49.65	49.90	48.87	47.73	48.64	48.49	49.26	49.21	
15	48.30	48.18	48.64	49.30	49.72	49.89	48.59	47.96	48.63	48.81	49.25	49.20	
16	48.33	48.31	48.61	49.30	49.71	49.91	47.80	49.78	48.50	48.41	49.25	49.19	
17	48.17	48.31	48.61	49.31	49.68	49.90	47.76	49.82	48.39	48.43	49.25	49.20	
18	48.32	48.31	48.59	49.32	49.39	49.91	47.74	49.82	48.59	48.42	49.26	49.20	
19	48.30	48.37	48.59	49.46	49.66	49.91	47.74	49.78	48.54	48.55	48.85	49.20	
20	48.28	48.17	48.57	49.52	49.65	49.89	47.74	49.52	48.38	48.45	49.26	49.20	
21	48.29	48.30	48.56	49.51	49.62	49.75	47.74	48.98	48.45	48.46	49.26	49.20	
22	48.29	48.29	48.56	49.52	49.61	49.65	48.16	49.23	48.42	48.43	49.24	49.20	
23	48.05	48.29	48.54	49.53	49.60	49.61	48.92	49.55	48.44	48.42	49.24	49.18	
24	48.17	48.29	48.53	49.53	49.71	49.50	48.90	49.77	48.44	48.49	49.28	49.25	
25	48.29	48.29	48.54	49.53	49.78	49.50	48.89	49.78	48.43	48.44	49.26	49.17	
26	48.30	48.28	48.53	49.54	49.77	49.48	48.89	49.77	48.39	48.40	49.26	49.17	
27	48.31	48.28	48.52	49.54	49.82	49.48	49.19	49.34	48.45	48.42	49.27	49.17	
28	48.32	48.36	48.51	49.54	49.84	49.53	49.49	48.95	48.40	48.41	49.28	49.16	
29	48.33	48.16	48.54	49.65	49.88	49.55	49.57	49.12	48.41	48.40		49.15	
30	48.37	48.28	48.61	49.79	49.91	49.53	49.82	49.26	48.44	48.42		49.15	
31		48.28		49.76	49.91		49.10		48.43	48.41		49.15	
MEAN	48.31	48.29	48.44	49.35	49.64	49.77	49.02	48.86	48.53	48.45	49.16	49.21	
MAX	48.59	48.37	48.64	49.79	49.91	49.91	49.82	49.82	49.12	48.81	49.28	49.49	49.91
MIN	48.00	48.16	48.18	48.91	49.39	49.48	47.74	47.73	48.32	48.39	48.62	49.15	47.73

ANNUAL MAX MOMENTARY GAGE HEIGHT 50.04 M (MSL), AT 13.00 HOURS, ON AUG 30, 1981
ZERO GAGE AT BOTTOM ELEVATION 48.40 M (MSL), RIVER BED 46.94 M (MSL)
LEFT BANK ELEVATION 59.22 M (MSL)
RIGHT BANK ELEVATION 54.13 M (MSL), DRAINAGE AREA 2207 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.80	2.90	4.20	17.25	43.70	50.10	37.25	14.50	23.10	7.40	10.40	28.20	
2	8.80	4.50	4.20	17.25	44.10	49.70	36.90	14.75	20.40	6.40	20.70	24.90	
3	5.10	4.35	4.20	21.00	44.10	50.10	37.25	14.75	20.40	6.60	20.40	27.30	
4	5.40	4.20	5.10	24.00	41.45	42.15	37.60	14.75	4.80	6.80	20.70	27.30	
5	4.95	4.20	2.80	24.30	35.85	49.70	36.90	14.75	5.25	7.00	20.70	27.60	
6	5.10	5.25	4.35	24.00	35.85	41.80	40.05	14.75	5.55	6.20	21.00	27.60	
7	5.40	2.90	4.35	24.00	35.15	50.10	41.80	4.50	5.70	6.60	21.30	27.90	
8	5.10	4.65	4.50	23.70	34.10	49.70	41.80	0.00	6.00	6.80	21.00	27.60	
9	5.10	4.65	4.50	24.00	33.05	49.70	41.80	0.00	9.40	5.85	23.70	27.90	
10	5.40	4.65	4.50	24.60	32.70	50.10	42.15	0.00	9.40	7.20	26.40	27.90	
11	1.00	4.95	5.25	27.00	32.35	50.10	41.80	0.00	9.20	6.80	26.40	24.90	
12	4.65	4.95	3.15	28.85	32.00	50.10	39.70	0.00	10.60	6.80	26.40	24.60	
13	4.50	4.95	4.95	28.50	34.80	50.50	27.60	0.00	11.20	6.80	27.30	27.90	
14	4.35	5.25	4.80	28.50	40.75	50.50	16.25	0.00	10.80	7.80	27.30	25.80	
15	4.50	2.80	10.80	28.50	43.30	50.10	9.80	0.80	10.60	14.75	27.00	25.50	
16	4.95	4.65	10.20	28.50	42.90	50.95	0.00	45.70	8.00	6.20	27.00	25.20	
17	2.70	4.65	10.20	28.85	41.80	50.50	0.00	47.30	5.85	6.60	27.00	25.50	
18	4.80	4.65	9.80	29.20	31.65	50.95	0.00	47.30	9.80	6.40	27.30	25.50	
19	4.50	5.55	9.80	34.10	41.10	50.95	0.00	45.70	8.80	9.00	15.75	25.50	
20	4.20	2.70	9.40	36.20	40.75	50.10	0.00	36.20	5.70	7.00	27.30	25.50	
21	4.35	4.50	9.20	35.85	39.70	44.50	0.00	19.00	7.00	7.20	27.30	25.50	
22	4.35	4.35	9.20	36.20	39.35	40.75	2.60	26.40	6.40	6.60	26.70	25.50	
23	1.50	4.35	8.80	36.55	39.00	39.35	17.50	37.25	6.80	6.40	26.70	24.90	
24	2.70	4.35	8.60	36.55	42.90	35.50	17.00	45.30	6.80	7.80	27.90	27.00	
25	4.35	4.35	8.80	36.55	45.70	35.50	16.75	45.70	6.60	6.80	27.30	24.60	
26	4.50	4.20	8.60	36.90	45.30	34.80	16.75	45.30	5.85	6.00	27.30	24.60	
27	4.65	4.20	8.40	36.90	47.30	34.80	25.20	29.90	7.00	6.40	27.60	24.60	
28	4.80	5.40	8.20	36.90	48.10	36.55	35.15	18.25	6.00	6.20	27.90	24.30	
29	4.95	2.60	8.80	40.75	49.70	37.25	37.95	23.10	6.20	6.00		24.00	
30	5.55	4.20	10.20	46.10	50.95	36.55	47.30	27.30	6.80	6.40		24.00	
31		4.20		44.90	50.95		22.50		6.60	6.20		24.00	
TOTAL	142.00	134.05	209.85	946.43	1260.40	1363.45	767.35	633.25	272.60	217.00	683.75	803.10	7433.24 CMSDAY
MEAN	4.73	4.32	6.99	30.53	40.66	45.45	24.75	21.11	8.79	7.00	24.42	25.91	20.37 CMS
MAX	9.80	5.55	10.80	46.10	50.95	50.95	47.30	47.30	23.10	14.75	27.90	28.20	50.95 CMS
MIN	1.00	2.60	2.80	17.25	31.65	34.80	0.00	0.00	4.80	5.85	10.40	24.00	0.00 CMS
RUNOFF	12.269	11.582	18.131	81.773	108.898	117.802	66.299	54.713	23.553	18.749	59.076	69.388	642.232 MCM

MOMENTARY PEAK 56.80 CMS, AT 50.04 M (MSL), AT 13.00 HOURS, ON AUG 30, 1981

RUNOFF YIELD 9.23 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 25.74 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +29.89 M.(M.S.L.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

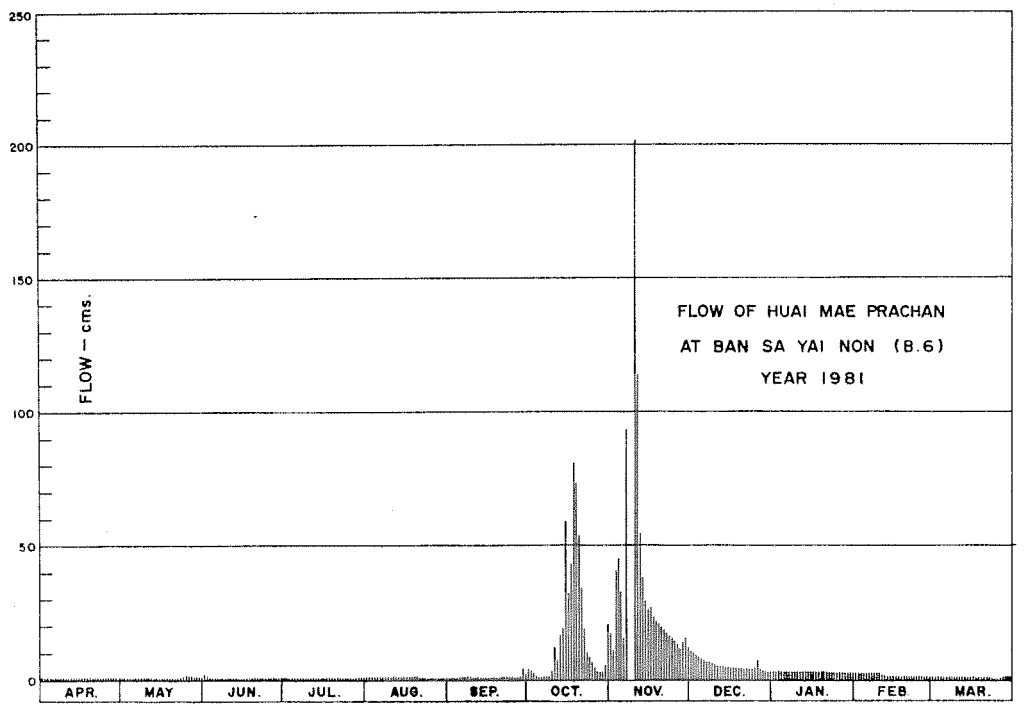
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.12	23.28	23.85	23.56	23.63	23.44	24.03	24.65	24.40	23.95	23.88	23.75	
2	23.12	23.26	23.72	23.56	23.61	23.44	23.97	24.42	24.35	23.95	23.88	23.75	
3	23.12	23.26	23.66	23.56	23.56	23.42	23.87	25.19	24.31	23.95	23.88	23.75	
4	23.12	23.26	23.61	23.53	23.56	23.43	23.80	25.29	24.27	23.95	23.88	23.75	
5	23.12	23.26	23.58	23.51	23.55	23.62	23.75	24.83	24.23	23.95	23.88	23.75	
6	23.12	23.26	23.57	23.50	23.54	23.59	23.70	24.60	24.20	23.95	23.87	23.75	
7	23.12	23.26	23.56	23.49	23.54	23.68	23.68	26.13	24.18	23.95	23.87	23.75	
8	23.12	23.26	23.56	23.47	23.54	23.62	23.68	31.43	24.17	23.95	23.87	23.74	
9	23.12	23.26	23.56	23.47	23.54	23.57	23.73	29.89	24.15	23.94	23.87	23.74	
10	23.12	23.26	23.55	23.47	23.54	23.54	23.65	27.55	24.14	23.95	23.88	23.74	
11	23.08	23.26	23.54	23.46	23.54	23.50	24.46	25.99	24.13	23.95	23.87	23.74	
12	23.08	23.26	23.54	23.46	23.54	23.47	24.19	25.43	24.12	23.94	23.81	23.74	
13	23.08	23.26	23.52	23.46	23.54	23.44	24.60	25.15	24.10	23.94	23.81	23.74	
14	23.11	23.26	23.52	23.45	23.53	23.45	24.72	24.97	24.09	23.94	23.80	23.73	
15	23.11	23.26	23.52	23.47	23.53	23.44	25.56	24.87	24.09	23.93	23.79	23.73	
16	23.12	23.26	23.52	23.45	23.73	23.44	25.02	24.88	24.08	23.93	23.79	23.73	
17	23.12	23.25	23.52	23.44	23.76	23.41	25.19	24.80	24.08	23.93	23.79	23.72	
18	23.12	23.25	23.52	23.49	23.72	23.43	25.93	24.73	24.07	23.92	23.79	23.72	
19	23.12	23.33	23.52	23.47	23.68	23.42	25.84	24.73	24.06	23.92	23.79	23.72	
20	23.12	23.30	23.53	23.50	23.65	23.50	25.43	24.66	24.04	23.92	23.79	23.72	
21	23.14	23.45	23.59	23.63	23.62	23.64	24.93	24.70	24.04	23.92	23.78	23.71	
22	23.26	23.40	23.66	23.64	23.60	23.62	24.61	24.64	24.03	23.92	23.77	23.71	
23	23.25	23.52	23.64	23.66	23.57	23.57	24.40	24.60	24.02	23.91	23.77	22.80	
24	23.25	23.59	23.62	23.62	23.55	23.55	24.26	24.58	24.02	23.91	23.77	22.80	
25	23.24	23.66	23.60	23.60	23.54	23.58	24.17	24.54	24.02	23.90	23.77	22.80	
26	23.24	23.79	23.58	23.59	23.52	23.60	24.08	24.48	24.22	23.90	23.76	22.80	
27	23.24	23.70	23.56	23.59	23.50	23.57	24.01	24.42	24.00	23.90	23.76	23.71	
28	23.24	23.67	23.55	23.62	23.48	23.58	23.95	24.50	23.95	23.90	23.75	23.71	
29	23.23	23.64	23.56	23.66	23.47	24.00	23.93	24.60	23.95	23.89		23.71	
30	23.32	23.62	23.56	23.70	23.44	23.86	24.11	24.48	23.95	23.89		23.71	
31		23.65		23.67	23.43		24.73		23.95	23.88		23.71	
MEAN	23.16	23.39	23.58	23.54	23.57	23.55	24.39	25.32	24.11	23.93	23.82	23.61	
MAX	23.32	23.79	23.85	23.70	23.76	24.00	25.93	31.43	24.40	23.95	23.88	23.75	31.43
MIN	23.08	23.25	23.52	23.44	23.43	23.41	23.65	24.42	23.95	23.88	23.75	22.80	22.80

ANNUAL MAX MOMENTARY GAGE HEIGHT — 31.78 M (MSL), AT 9.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 22.71 M (MSL), RIVER BED M (MSL)

LEFT BANK ELEVATION — 30.60 M (MSL)

RIGHT BANK ELEVATION — 29.88 M (MSL), DRAINAGE AREA 1015 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	2.10	0.25	0.60	0.00	3.96	18.08	10.98	3.10	2.40	1.28	
2	0.00	0.00	1.07	0.25	0.50	0.00	3.30	11.46	9.88	3.10	2.40	1.28	
3	0.00	0.00	0.75	0.25	0.25	0.00	2.30	40.00	9.00	3.10	2.40	1.28	
4	0.00	0.00	0.50	0.10	0.25	0.00	1.63	45.00	8.20	3.10	2.40	1.28	
5	0.00	0.00	0.35	0.00	0.20	0.55	1.28	24.80	7.40	3.10	2.40	1.28	
6	0.00	0.00	0.30	0.00	0.15	0.40	0.95	16.50	6.80	3.10	2.30	1.28	
7	0.00	0.00	0.25	0.00	0.15	0.85	0.85	93.40	6.40	3.10	2.30	1.28	
8	0.00	0.00	0.25	0.00	0.15	0.55	0.85	*******	6.20	3.10	2.30	1.21	
9	0.00	0.00	0.25	0.00	0.15	0.30	1.14	*******	5.80	3.00	2.30	1.21	
10	0.00	0.00	0.20	0.00	0.15	0.15	0.70	201.60	5.60	3.10	2.40	1.21	
11	0.00	0.00	0.15	0.00	0.15	0.00	12.50	84.80	5.40	3.10	2.30	1.21	
12	0.00	0.00	0.15	0.00	0.15	0.00	6.60	52.00	5.20	3.00	1.70	1.21	
13	0.00	0.00	0.05	0.00	0.15	0.00	16.50	38.00	4.87	3.00	1.70	1.21	
14	0.00	0.00	0.05	0.00	0.10	0.00	20.40	30.40	4.74	3.00	1.63	1.14	
15	0.00	0.00	0.05	0.00	0.10	0.00	59.00	26.40	4.74	2.90	1.56	1.14	
16	0.00	0.00	0.05	0.00	1.14	0.00	32.40	26.80	4.61	2.90	1.56	1.14	
17	0.00	0.00	0.05	0.00	1.35	0.00	40.00	23.60	4.61	2.90	1.56	1.07	
18	0.00	0.00	0.05	0.00	1.07	0.00	81.20	20.80	4.48	2.80	1.56	1.07	
19	0.00	0.00	0.05	0.00	0.85	0.00	75.80	20.80	4.35	2.80	1.56	1.07	
20	0.00	0.00	0.10	0.00	0.70	0.00	52.00	18.40	4.09	2.80	1.56	1.07	
21	0.00	0.00	0.40	0.60	0.55	0.65	28.80	19.68	4.09	2.80	1.49	1.00	
22	0.00	0.00	0.75	0.65	0.45	0.55	16.80	17.76	3.96	2.80	1.42	1.00	
23	0.00	0.05	0.65	0.75	0.30	0.30	10.98	16.50	3.83	2.70	1.42	0.00	
24	0.00	0.40	0.55	0.55	0.20	0.20	8.00	15.90	3.83	2.70	1.42	0.00	
25	0.00	0.75	0.45	0.45	0.15	0.35	6.20	14.70	3.83	2.60	1.42	0.00	
26	0.00	1.56	0.35	0.40	0.05	0.45	4.61	13.02	7.20	2.60	1.35	0.00	
27	0.00	0.95	0.25	0.40	0.00	0.30	3.70	11.46	3.60	2.60	1.35	1.00	
28	0.00	0.80	0.20	0.55	0.00	0.35	3.10	13.54	3.10	2.60	1.28	1.00	
29	0.00	0.65	0.25	0.75	0.00	3.60	2.90	16.50	3.10	2.50		1.00	
30	0.00	0.55	0.25	0.95	0.00	2.20	5.00	13.02	3.10	2.50		1.00	
31		0.70		0.80	0.00		20.80		3.10	2.40		1.00	
TOTAL	0.00	6.41	10.87	7.70	10.01	11.75	524.25	*******	166.09	88.90	51.44	30.92	******** CMSDAY
MEAN	0.00	0.21	0.36	0.25	0.32	0.39	16.91	*******	5.36	2.87	1.84	1.00	******* CMS
MAX	0.00	1.56	2.10	0.95	1.35	3.60	81.20	201.60	10.98	3.10	2.40	1.28	201.60 CMS
MIN	0.00	0.00	0.05	0.00	0.00	0.00	0.70	*******	3.10	2.40	1.28	0.00	******* CMS
RUNOFF	0.000	0.554	0.939	0.665	0.865	1.015	45.295	*******	14.350	7.681	4.444	2.671	******** MCM

MOMENTARY PEAK ******** CMS, AT 31.78 M (MSL), AT 9.00 HOURS, ON NOV 8, 1981

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

WATER YEAR 1981

PHETCHABURI RIVER BASIN

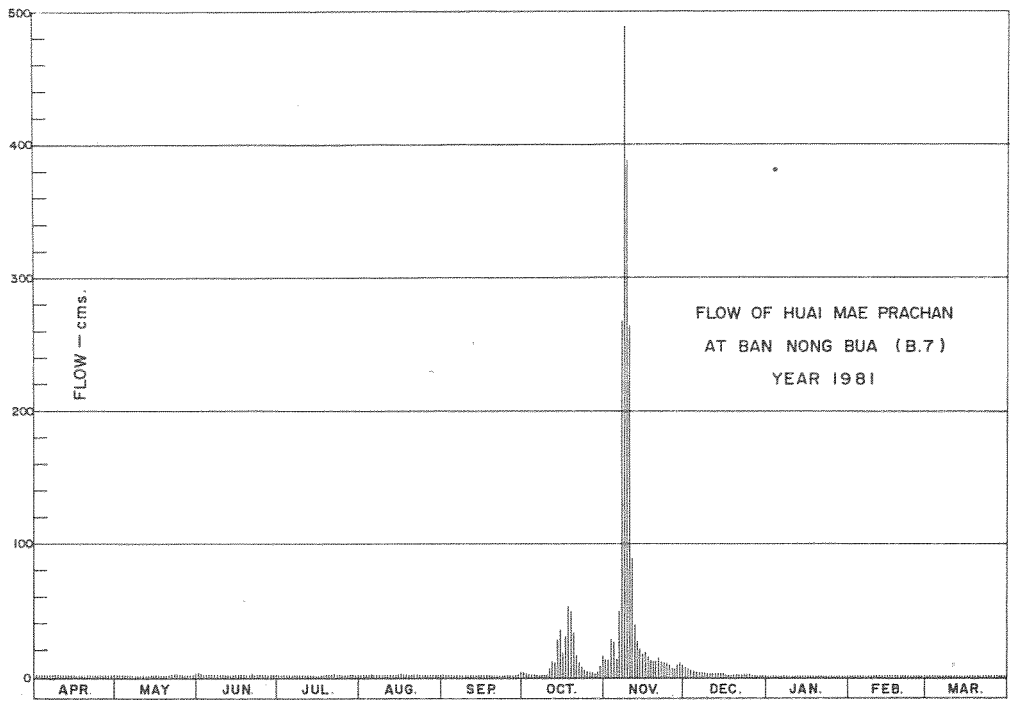
HUAI MAE PRACHAN AT BAN NONG BUA, PHETCHABURI (B.7)

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 AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	INFRONT OF B.7 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 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1967 TO DATE.
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +4.96 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.83	1.48	1.08	1.05	0.85	1.74	2.66	2.12	1.11	0.92	0.87	
2	0.41	0.89	1.26	1.07	1.00	0.83	1.58	2.47	2.00	1.12	0.92	0.87	
3	0.38	0.90	1.12	1.03	0.96	0.83	1.41	3.71	1.92	1.08	0.92	0.87	
4	0.32	0.90	1.06	0.98	0.94	1.02	1.36	3.58	1.85	1.07	0.92	0.86	
5	0.29	0.90	1.02	0.95	0.93	1.09	1.24	2.84	1.78	1.08	0.92	0.86	
6	0.36	0.94	1.01	0.94	0.92	1.03	1.19	2.59	1.72	1.07	0.92	0.86	
7	0.41	0.91	0.99	0.92	0.92	1.09	1.13	6.15	1.67	1.07	0.92	0.85	
8	0.39	0.87	0.97	0.91	0.93	1.00	1.07	9.90	1.62	1.06	0.92	0.85	
9	0.42	0.86	0.95	0.90	0.94	0.95	1.03	8.91	1.59	1.07	0.92	0.85	
10	0.43	0.85	0.94	0.89	0.95	0.89	1.01	7.22	1.56	1.05	0.92	0.85	
11	0.44	0.84	0.93	0.88	0.94	0.88	1.23	5.47	1.53	1.03	0.91	0.85	
12	0.51	0.85	0.92	0.88	0.94	0.85	2.63	4.39	1.50	1.02	0.91	0.85	
13	0.53	0.85	0.90	0.88	0.93	0.84	2.40	3.70	1.48	1.02	0.90	0.85	
14	0.53	0.92	0.90	0.88	0.93	0.84	3.67	3.23	1.46	1.01	0.90	0.85	
15	0.53	0.90	0.91	0.86	1.17	0.85	4.09	3.07	1.43	1.01	0.90	0.95	
16	0.53	0.88	0.91	0.86	1.38	0.83	3.15	3.14	1.40	1.00	0.90	0.84	
17	0.53	0.87	0.92	0.90	1.31	0.82	3.94	2.88	1.36	1.00	0.90	0.84	
18	0.54	0.87	0.94	0.89	1.21	0.84	4.72	2.73	1.34	0.98	0.90	0.84	
19	0.59	0.87	0.95	0.92	1.11	0.92	4.59	2.68	1.32	0.98	0.89	0.83	
20	0.59	0.86	1.02	1.18	1.04	0.91	3.83	2.65	1.30	0.98	0.89	0.83	
21	0.59	0.93	1.20	1.13	1.00	0.90	3.02	2.81	1.28	0.97	0.88	0.83	
22	0.60	1.13	1.16	1.18	0.97	0.92	2.53	2.63	1.27	0.97	0.88	0.82	
23	0.60	1.26	1.11	1.13	0.94	0.91	2.22	2.53	1.25	0.96	0.88	0.82	
24	0.78	1.26	1.09	1.10	0.93	1.00	2.02	2.49	1.24	0.96	0.88	0.82	
25	0.80	1.31	1.05	1.04	0.92	1.07	1.86	2.38	1.23	0.96	0.88	0.80	
26	0.83	1.23	1.02	1.00	0.89	1.06	1.74	2.25	1.21	0.96	0.88	0.80	
27	0.81	1.19	1.01	1.04	0.88	1.01	1.64	2.13	1.13	0.95	0.88	0.80	
28	0.81	1.15	1.02	1.12	0.86	1.08	1.54	2.40	1.08	0.93	0.87	0.83	
29	0.82	1.03	1.07	1.21	0.85	1.39	1.51	2.52	1.15	0.93		0.84	
30	0.84	1.02	1.07	1.17	0.84	1.51	2.15	2.27	1.14	0.93		0.83	
31		1.39		1.11	0.84		2.97		1.13	0.92		0.83	
MEAN	0.55	0.98	1.03	1.00	0.98	0.96	2.26	3.61	1.45	1.01	0.90	0.84	
MAX	0.84	1.39	1.48	1.21	1.38	1.51	4.72	9.90	2.12	1.12	0.92	0.87	9.90
MIN	0.29	0.83	0.90	0.86	0.84	0.82	1.01	2.13	1.08	0.92	0.87	0.80	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.81 M (A.D), AT 1.00 HOURS, ON NOV 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.35 M (A.D)
LEFT BANK ELEVATION 4.95 M (A.D)
RIGHT BANK ELEVATION 6.42 M (A.D), DRAINAGE AREA 846 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.16	2.22	0.64	0.55	0.18	3.68	12.32	6.88	0.74	0.28	0.21	
2	0.00	0.24	1.34	0.61	0.40	0.16	2.72	10.10	5.80	0.78	0.28	0.21	
3	0.00	0.25	0.78	0.49	0.34	0.16	1.94	28.48	5.08	0.64	0.28	0.21	
4	0.00	0.25	0.58	0.37	0.31	0.46	1.74	26.14	4.50	0.61	0.28	0.20	
5	0.00	0.25	0.46	0.32	0.29	0.67	1.26	14.62	3.96	0.64	0.28	0.20	
6	0.00	0.31	0.43	0.31	0.28	0.49	1.06	11.48	3.54	0.61	0.28	0.20	
7	0.00	0.26	0.38	0.28	0.28	0.67	0.82	111.75	3.23	0.61	0.28	0.18	
8	0.00	0.21	0.35	0.26	0.29	0.40	0.61	487.00	2.94	0.58	0.28	0.18	
9	0.00	0.20	0.32	0.25	0.31	0.32	0.49	358.30	2.77	0.61	0.28	0.18	
10	0.00	0.18	0.31	0.24	0.32	0.24	0.43	184.20	2.61	0.55	0.28	0.18	
11	0.00	0.17	0.29	0.22	0.31	0.22	1.22	80.30	2.46	0.49	0.26	0.18	
12	0.00	0.18	0.28	0.22	0.31	0.18	11.96	43.05	2.30	0.46	0.26	0.18	
13	0.00	0.18	0.25	0.22	0.29	0.17	9.40	28.30	2.22	0.46	0.25	0.18	
14	0.00	0.28	0.25	0.22	0.29	0.17	27.76	20.18	2.14	0.43	0.25	0.18	
15	0.00	0.25	0.26	0.20	0.98	0.18	35.98	17.78	2.02	0.43	0.25	0.18	
16	0.00	0.22	0.26	0.20	1.82	0.16	18.95	18.80	1.90	0.40	0.25	0.17	
17	0.00	0.21	0.28	0.25	1.54	0.15	32.80	15.14	1.74	0.40	0.25	0.17	
18	0.00	0.21	0.31	0.24	1.14	0.17	52.60	13.19	1.66	0.37	0.25	0.17	
19	0.00	0.21	0.32	0.28	0.74	0.28	48.70	12.56	1.58	0.37	0.24	0.16	
20	0.00	0.20	0.46	1.02	0.52	0.26	30.67	12.20	1.50	0.37	0.24	0.16	
21	0.00	0.29	1.10	0.82	0.40	0.25	17.08	14.23	1.42	0.35	0.22	0.16	
22	0.00	0.82	0.94	1.02	0.35	0.28	10.76	11.96	1.38	0.35	0.22	0.15	
23	0.00	1.34	0.74	0.82	0.31	0.26	7.78	10.76	1.30	0.34	0.22	0.15	
24	0.07	1.34	0.67	0.70	0.29	0.40	5.98	10.30	1.26	0.34	0.22	0.15	
25	0.12	1.54	0.55	0.52	0.28	0.61	4.58	9.22	1.22	0.34	0.22	0.12	
26	0.16	1.22	0.46	0.40	0.24	0.40	3.68	8.05	1.14	0.34	0.22	0.12	
27	0.13	1.06	0.43	0.52	0.22	0.43	3.05	6.97	0.92	0.32	0.22	0.12	
28	0.13	0.90	0.46	0.78	0.20	0.64	2.51	9.40	0.64	0.29	0.21	0.16	
29	0.15	0.49	0.61	1.14	0.18	1.86	2.35	10.64	0.90	0.29		0.17	
30	0.17	0.46	0.61	0.98	0.17	2.35	7.15	8.23	0.86	0.29		0.16	
31		1.86		0.74	0.17		16.38		0.82	0.28		0.16	
TOTAL	0.93	15.74	16.70	15.28	14.12	13.17	366.09	1605.65	72.59	14.08	7.05	5.30	2146.70 CMSDAY
MEAN	0.03	0.51	0.56	0.49	0.46	0.44	11.81	53.52	2.34	0.45	0.25	0.17	5.88 CMS
MAX	0.17	1.86	2.22	1.14	1.82	2.35	52.60	487.00	6.88	0.78	0.28	0.21	487.00 CMS
MIN	0.00	0.16	0.25	0.20	0.17	0.15	0.43	6.97	0.64	0.28	0.21	0.12	0.00 CMS
RUNOFF	0.080	1.360	1.443	1.320	1.220	1.138	31.630	138.728	6.272	1.217	0.609	0.458	185.474 MCM

MOMENTARY PEAK 605.30 CMS, AT 10.81 M (A.D), AT 1.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 6.95 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 715.48 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 69 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

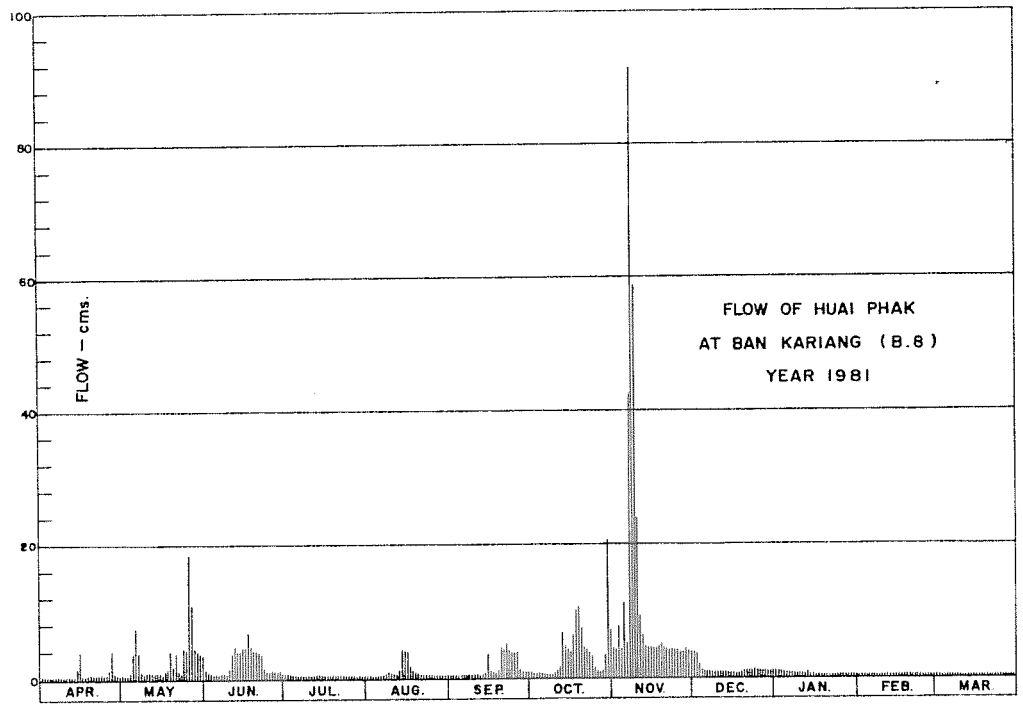
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	1.96	2.17	1.95	1.77	1.80	2.02	2.77	2.31	2.09	1.70	1.77	
2	1.10	1.88	2.09	1.94	1.77	1.81	1.98	2.59	2.24	2.08	1.71	1.68	
3	1.09	1.87	2.04	1.92	1.77	1.82	1.95	3.12	2.18	2.06	1.72	1.66	
4	1.07	1.88	2.01	1.90	1.76	1.83	1.98	2.71	2.14	2.04	1.74	1.67	
5	1.04	2.23	1.99	1.89	1.75	1.83	1.97	3.39	2.11	2.02	1.75	1.68	
6	1.03	3.11	1.99	1.88	1.78	1.84	1.93	2.84	2.08	1.99	1.74	1.63	
7	1.02	2.33	1.97	1.87	1.78	1.84	1.91	4.53	2.06	1.97	1.74	1.71	
8	1.01	2.12	2.02	1.86	1.88	1.84	1.89	5.63	2.05	1.96	1.74	1.69	
9	1.01	2.03	1.97	1.85	2.04	1.85	1.83	4.74	2.02	1.95	1.74	1.66	
10	1.07	1.97	1.96	1.85	1.99	1.84	1.87	3.81	2.01	1.95	1.75	1.64	
11	1.20	2.13	2.28	1.84	1.94	1.83	2.14	3.30	1.99	1.96	1.76	1.64	
12	1.32	2.07	2.70	1.83	1.93	1.83	2.19	3.02	1.99	1.93	1.77	1.61	
13	1.43	2.00	2.43	1.89	2.12	1.81	3.03	2.85	1.98	1.96	1.78	1.58	
14	1.88	2.07	2.35	1.88	2.53	1.92	2.77	2.74	1.97	1.86	1.78	1.53	
15	2.45	2.11	2.72	1.87	2.49	2.23	2.64	2.78	1.99	1.86	1.76	1.53	
16	1.93	1.99	2.78	1.84	2.29	2.08	2.45	2.73	1.92	1.85	1.74	1.54	
17	1.85	2.16	3.03	1.83	2.18	2.04	2.99	2.67	1.91	1.85	1.76	1.53	
18	1.84	2.11	2.74	1.82	2.11	1.99	3.47	2.80	1.90	1.84	1.78	1.51	
19	1.95	2.45	2.57	1.81	2.07	2.09	3.73	2.87	1.95	1.82	1.80	1.51	
20	1.92	2.19	2.41	1.81	1.96	2.73	2.99	2.72	2.09	1.80	1.78	1.51	
21	1.92	2.28	2.32	1.80	1.92	2.51	2.68	2.59	2.09	1.79	1.77	1.52	
22	1.91	2.12	2.23	1.80	1.92	2.86	2.48	2.50	2.11	1.79	1.74	1.51	
23	1.99	2.01	2.18	1.79	1.90	2.40	2.35	2.55	2.11	1.80	1.74	1.51	
24	1.94	2.75	2.12	1.78	1.88	2.32	2.27	2.54	2.13	1.81	1.74	1.51	
25	1.93	2.65	2.07	1.78	1.87	2.23	2.20	2.43	2.11	1.82	1.71	1.51	
26	2.12	3.80	2.09	1.77	1.84	2.34	2.14	2.36	2.12	1.80	1.69	1.51	
27	2.55	3.22	2.14	1.77	1.83	2.15	2.09	2.31	2.11	1.78	1.70	1.52	
28	2.07	2.70	2.06	1.76	1.82	2.08	2.05	2.70	2.08	1.77	1.71	1.58	
29	1.92	2.53	2.07	1.76	1.81	2.04	2.23	2.52	2.07	1.75		1.62	
30	1.90	2.36	1.99	1.77	1.80	2.05	3.88	2.39	2.06	1.74		1.80	
31		2.27		1.77	1.80		3.10		2.09	1.73		1.84	
MEAN	1.62	2.30	2.25	1.83	1.95	2.06	2.43	2.98	2.06	1.88	1.74	1.60	
MAX	2.55	3.80	3.03	1.95	2.53	2.86	3.88	5.63	2.31	2.09	1.80	1.84	5.63
MIN	1.01	1.87	1.96	1.76	1.75	1.80	1.83	2.31	1.90	1.73	1.69	1.51	1.01

ANNUAL MAX MOMENTARY GAGE HEIGHT — 5.80 M (A.D), AT 19.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.52 M (A.D)

LEFT BANK ELEVATION — 7.03 M (A.D)

RIGHT BANK ELEVATION — 8.20 M (A.D), DRAINAGE AREA — 264 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.60	1.12	0.57	0.26	0.30	0.75	4.55	3.81	0.92	0.15	0.26	
2	0.00	0.42	0.92	0.55	0.26	0.32	0.65	4.26	3.70	0.90	0.16	0.12	
3	0.00	0.40	0.80	0.50	0.26	0.33	0.57	7.72	1.15	0.85	0.18	0.09	
4	0.00	0.42	0.72	0.45	0.24	0.35	0.65	4.45	1.05	0.80	0.21	0.10	
5	0.00	3.68	0.67	0.43	0.23	0.35	0.62	11.11	0.97	0.75	0.23	0.12	
6	0.00	7.61	0.67	0.42	0.27	0.36	0.52	4.96	0.90	0.67	0.21	0.04	
7	0.00	3.84	0.62	0.40	0.27	0.36	0.47	36.99	0.85	0.62	0.21	0.16	
8	0.00	1.00	0.75	0.39	0.42	0.36	0.43	91.10	0.82	0.60	0.21	0.13	
9	0.00	0.77	0.62	0.37	0.80	0.37	0.35	43.96	0.75	0.57	0.21	0.09	
10	0.00	0.62	0.60	0.37	0.67	0.36	0.40	18.52	0.72	0.57	0.23	0.06	
11	0.00	1.02	3.76	0.36	0.55	0.35	1.05	9.80	0.67	0.60	0.24	0.06	
12	0.00	0.87	4.44	0.35	0.52	0.35	1.17	6.70	0.67	0.52	0.26	0.01	
13	0.00	0.70	4.00	0.43	1.00	0.32	6.80	5.05	0.65	0.60	0.27	0.00	
14	0.42	0.87	3.87	0.42	4.16	0.50	4.55	4.50	0.62	0.39	0.27	0.00	
15	4.03	0.97	4.47	0.40	4.10	3.68	4.34	4.57	0.67	0.39	0.24	0.00	
16	0.52	0.67	4.57	0.36	3.78	0.90	4.03	4.49	0.50	0.37	0.21	0.00	
17	0.37	1.10	6.80	0.35	1.15	0.80	6.40	4.39	0.47	0.37	0.24	0.00	
18	0.36	0.97	4.50	0.33	0.97	0.67	12.30	4.60	0.45	0.36	0.27	0.00	
19	0.57	4.03	4.23	0.32	0.87	0.92	16.90	5.23	0.57	0.33	0.30	0.00	
20	0.50	1.17	3.97	0.32	0.60	4.49	6.40	4.47	0.92	0.30	0.27	0.00	
21	0.50	3.76	3.82	0.30	0.50	4.13	4.41	4.26	0.92	0.29	0.26	0.00	
22	0.47	1.00	3.68	0.30	0.50	5.14	4.08	4.12	0.97	0.29	0.21	0.00	
23	0.67	0.72	1.15	0.29	0.45	3.95	3.87	4.20	0.97	0.30	0.21	0.00	
24	0.55	4.52	1.00	0.27	0.42	3.82	3.74	4.18	1.02	0.32	0.21	0.00	
25	0.52	4.36	0.87	0.27	0.40	3.68	1.20	4.00	0.97	0.33	0.16	0.00	
26	1.00	18.30	0.92	0.26	0.36	3.86	1.05	3.89	1.00	0.30	0.13	0.00	
27	4.20	8.84	1.05	0.26	0.35	1.07	0.92	3.81	0.97	0.27	0.15	0.00	
28	0.87	4.44	0.85	0.24	0.33	0.90	0.82	4.44	0.90	0.26	0.16	0.00	
29	0.50	4.16	0.87	0.24	0.32	0.80	3.68	4.15	0.87	0.23		0.03	
30	0.45	3.89	0.67	0.26	0.30	0.82	20.06	3.94	0.85	0.21		0.30	
31		3.74		0.26	0.30		7.50		0.92	0.19		0.36	
TOTAL	16.50	89.46	66.98	11.04	25.61	44.61	120.68	322.41	31.27	14.47	6.06	1.93	751.02 CMSDAY
MEAN	0.55	2.89	2.23	0.36	0.83	1.49	3.89	10.75	1.01	0.47	0.22	0.06	2.06 CMS
MAX	4.20	18.30	6.80	0.57	4.16	5.14	20.06	91.10	3.81	0.92	0.30	0.36	91.10 CMS
MIN	0.00	0.40	0.60	0.24	0.23	0.30	0.35	3.81	0.45	0.19	0.13	0.00	0.00 CMS
RUNOFF	1.426	7.729	5.787	0.954	2.213	3.854	10.427	27.856	2.702	1.250	0.524	0.167	64.888 MCM

MOMENTARY PEAK 104.00 CMS, AT 5.80 M (A.D), AT 19.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 7.79 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 393.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

PRAN RIVER BASIN

PRAN 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

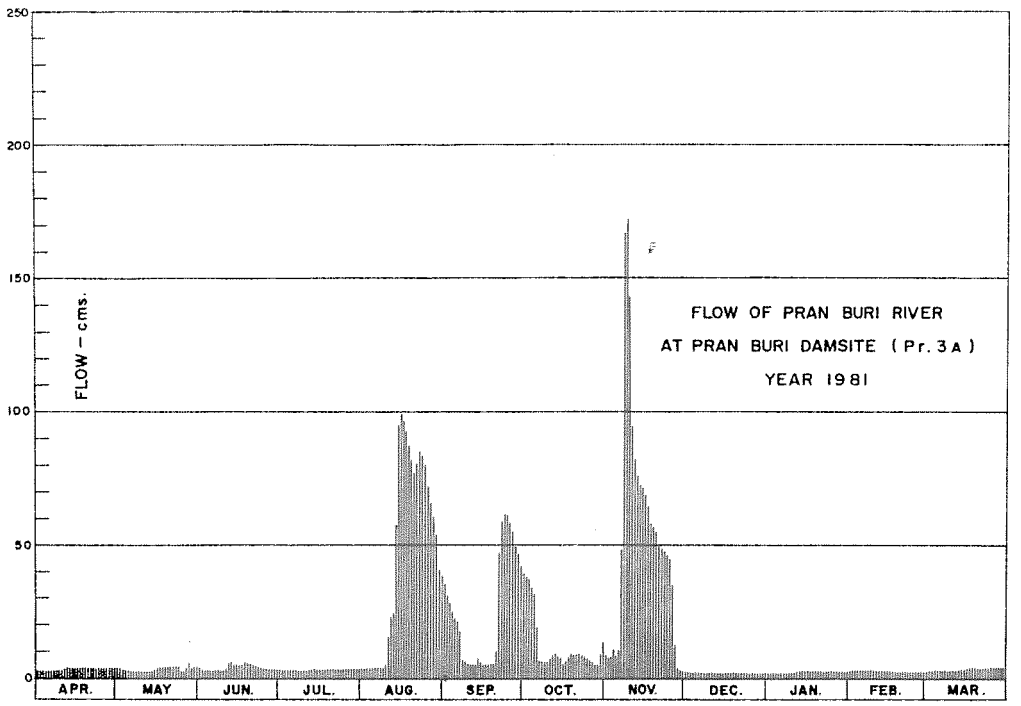
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	15.49	15.60	15.59	15.52	15.55	17.56	17.63	16.11	15.43	15.40	15.49	15.49	
2	15.49	15.58	15.51	15.51	15.55	17.34	17.56	15.93	15.43	15.40	15.52	15.52	
3	15.50	15.48	15.48	15.50	15.55	17.17	17.53	15.98	15.40	15.40	15.52	15.52	
4	15.50	15.48	15.47	15.50	15.55	17.03	17.39	16.19	15.40	15.40	15.52	15.52	
5	15.50	15.49	15.46	15.50	15.56	16.91	17.27	16.01	15.39	15.40	15.52	15.52	
6	15.50	15.49	15.46	15.50	15.57	16.78	16.92	16.14	15.38	15.40	15.52	15.52	
7	15.51	15.48	15.44	15.50	15.59	16.57	15.87	18.24	15.37	15.40	15.52	15.52	
8	15.51	15.48	15.44	15.50	15.60	15.88	15.84	21.11	15.37	15.40	15.52	15.52	
9	15.53	15.47	15.45	15.50	15.60	15.85	15.81	21.21	15.40	15.40	15.52	15.52	
10	15.53	15.47	15.47	15.50	15.59	15.81	15.82	20.32	15.40	15.40	15.53	15.52	
11	15.54	15.45	15.55	15.50	16.45	15.79	15.93	19.36	15.40	15.43	15.54	15.53	
12	15.62	15.44	15.78	15.50	16.91	15.77	15.96	19.12	15.40	15.46	15.54	15.53	
13	15.57	15.43	15.82	15.53	16.94	15.76	16.06	18.98	15.40	15.47	15.52	15.53	
14	15.58	15.45	15.69	15.53	19.25	15.91	16.00	18.87	15.40	15.47	15.52	15.53	
15	15.60	15.50	15.67	15.53	19.57	15.78	15.94	18.84	15.40	15.47	15.52	15.57	
16	15.60	15.65	15.69	15.51	19.66	15.78	15.79	18.70	15.40	15.47	15.53	15.62	
17	15.61	15.66	15.68	15.51	19.61	15.77	15.83	18.57	15.40	15.47	15.52	15.62	
18	15.59	15.66	15.78	15.52	19.46	15.75	16.03	18.33	15.40	15.47	15.48	15.62	
19	15.59	15.63	15.74	15.54	19.26	15.74	16.03	18.29	15.40	15.47	15.48	15.61	
20	15.58	15.63	15.70	15.54	19.15	15.73	16.05	18.21	15.40	15.47	15.48	15.61	
21	15.59	15.62	15.65	15.54	19.03	16.14	16.01	18.08	15.40	15.48	15.48	15.62	
22	15.60	15.63	15.63	15.54	19.15	18.09	16.05	17.97	15.40	15.48	15.48	15.62	
23	15.60	15.64	15.60	15.53	19.25	18.38	15.99	17.93	15.40	15.48	15.48	15.63	
24	15.60	15.62	15.57	15.48	19.22	18.47	15.95	17.89	15.40	15.48	15.48	15.63	
25	15.60	15.45	15.56	15.53	19.06	18.45	15.93	17.80	15.40	15.48	15.48	15.63	
26	15.60	15.45	15.54	15.54	18.85	18.34	15.91	17.55	15.40	15.48	15.48	15.64	
27	15.60	15.70	15.53	15.55	18.65	18.18	15.77	15.76	15.40	15.48	15.48	15.65	
28	15.60	15.73	15.51	15.59	18.36	18.06	15.67	15.56	15.40	15.48	15.48	15.65	
29	15.60	15.59	15.51	15.55	18.12	17.92	15.69	15.47	15.40	15.48		15.65	
30	15.60	15.59	15.49	15.55	17.76	17.78	15.88	15.46	15.40	15.48		15.65	
31		15.59		15.54	17.57		16.33		15.40	15.48		15.60	
MEAN	15.56	15.55	15.58	15.52	17.64	16.82	16.21	17.80	15.40	15.45	15.51	15.58	
MAX	15.62	15.78	15.82	15.59	19.66	18.47	17.63	21.21	15.43	15.48	15.54	15.65	21.21
MIN	15.49	15.43	15.44	15.48	15.55	15.73	15.67	15.46	15.37	15.40	15.48	15.49	15.37

ANNUAL MAX MOMENTARY GAGE HEIGHT 21.35 M (MSL), AT 14.00 HOURS, ON NOV 8, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.52	3.60	3.50	2.80	3.10	38.04	39.75	9.74	2.04	1.80	2.52	2.52	
2	2.52	3.40	2.70	2.70	3.10	32.92	38.04	7.22	2.04	1.80	2.80	2.80	
3	2.60	2.44	2.44	2.60	3.10	29.01	37.32	7.92	1.80	1.80	2.80	2.80	
4	2.60	2.44	2.36	2.60	3.10	25.79	34.07	10.86	1.80	1.80	2.80	2.80	
5	2.60	2.52	2.28	2.60	3.20	23.30	31.31	8.34	1.74	1.80	2.80	2.80	
6	2.60	2.52	2.28	2.60	3.30	20.74	23.50	10.16	1.68	1.80	2.80	2.80	
7	2.70	2.44	2.12	2.60	3.50	16.99	6.44	55.28	1.62	1.80	2.80	2.80	
8	2.70	2.44	2.12	2.60	3.60	6.56	6.08	167.05	1.62	1.80	2.80	2.80	
9	2.90	2.36	2.20	2.60	3.60	6.20	5.72	172.56	1.80	1.80	2.80	2.80	
10	2.90	2.36	2.36	2.60	3.50	5.72	5.84	126.44	1.80	1.80	2.90	2.80	
11	3.00	2.20	3.10	2.60	15.00	5.50	7.22	88.28	1.80	2.04	3.00	2.90	
12	3.80	2.12	5.40	2.60	23.30	5.30	7.64	80.44	1.80	2.28	3.00	2.90	
13	3.30	2.04	5.84	2.90	23.90	5.20	9.04	75.96	1.80	2.36	2.80	2.90	
14	3.40	2.20	4.50	2.90	84.65	6.94	8.20	72.56	1.80	2.36	2.80	2.90	
15	3.60	2.60	4.30	2.90	95.21	5.40	7.36	71.72	1.80	2.36	2.80	3.30	
16	3.60	4.10	4.50	2.70	98.36	5.40	5.50	67.80	1.80	2.36	2.90	3.80	
17	3.70	4.20	4.40	2.70	96.56	5.30	5.96	64.19	1.80	2.36	2.80	3.80	
18	3.50	4.20	5.40	2.80	91.58	5.10	8.62	57.71	1.80	2.36	2.44	3.80	
19	3.50	3.90	5.00	3.00	84.98	5.00	8.62	56.63	1.80	2.36	2.44	3.70	
20	3.40	3.90	4.60	3.00	81.40	4.90	8.90	54.47	1.80	2.36	2.44	3.70	
21	3.50	3.80	4.10	3.00	77.56	10.16	8.34	51.08	1.80	2.44	2.44	3.80	
22	3.60	3.90	3.90	3.00	81.40	51.34	8.90	48.25	1.80	2.44	2.44	3.80	
23	3.60	4.00	3.60	2.90	84.65	59.06	8.06	47.25	1.80	2.44	2.44	3.90	
24	3.60	3.80	3.30	2.44	83.66	61.49	7.50	46.25	1.80	2.44	2.44	3.90	
25	3.60	2.20	3.20	2.90	78.52	60.95	7.22	44.00	1.80	2.44	2.44	3.90	
26	3.60	2.20	3.00	3.00	72.00	57.98	6.94	37.80	1.80	2.44	2.44	4.00	
27	3.60	4.60	2.90	3.10	66.40	53.68	5.30	5.20	1.80	2.44	2.44	4.10	
28	3.60	5.40	2.70	3.50	58.52	50.56	4.30	3.20	1.80	2.44	2.44	4.10	
29	3.60	3.50	2.70	3.10	52.12	47.00	4.50	2.36	1.80	2.44		4.10	
30	3.60	3.50	2.52	3.10	43.00	43.50	6.56	2.28	1.80	2.44		4.10	
31		3.50		3.00	38.28		13.08		1.80	2.4		3.60	
TOTAL	97.34	98.38	103.32	87.44	1464.15	755.03	385.83	1553.00	55.74	68.04	74.76	104.72	4847.74 CMSDAY
MEAN	3.24	3.17	3.44	2.82	47.23	25.17	12.45	51.77	1.80	2.19	2.67	3.38	13.28 CMS
MAX	3.80	5.40	5.84	3.50	98.36	61.49	39.75	172.56	2.04	2.44	3.00	4.10	172.56 CMS
MIN	2.52	2.04	2.12	2.44	3.10	4.90	4.30	2.28	1.62	1.80	2.44	2.52	1.62 CMS
RUNOFF	8.410	8.500	8.927	7.555	126.502	65.235	33.336	134.179	4.816	5.879	6.459	9.048	418.845 MCM

MOMENTARY PEAK 180.40 CMS, AT 21.35 M (MSL), AT 14.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 6.43 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 87.28 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 HAD KHAM, AMPHOE KUI BURI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 92 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK AT THE FOOT OF THE SLING POLE.

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 — 1979-1980.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1979-1980.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 33 DISCHARGE MEASUREMENTS MADE IN 1980.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

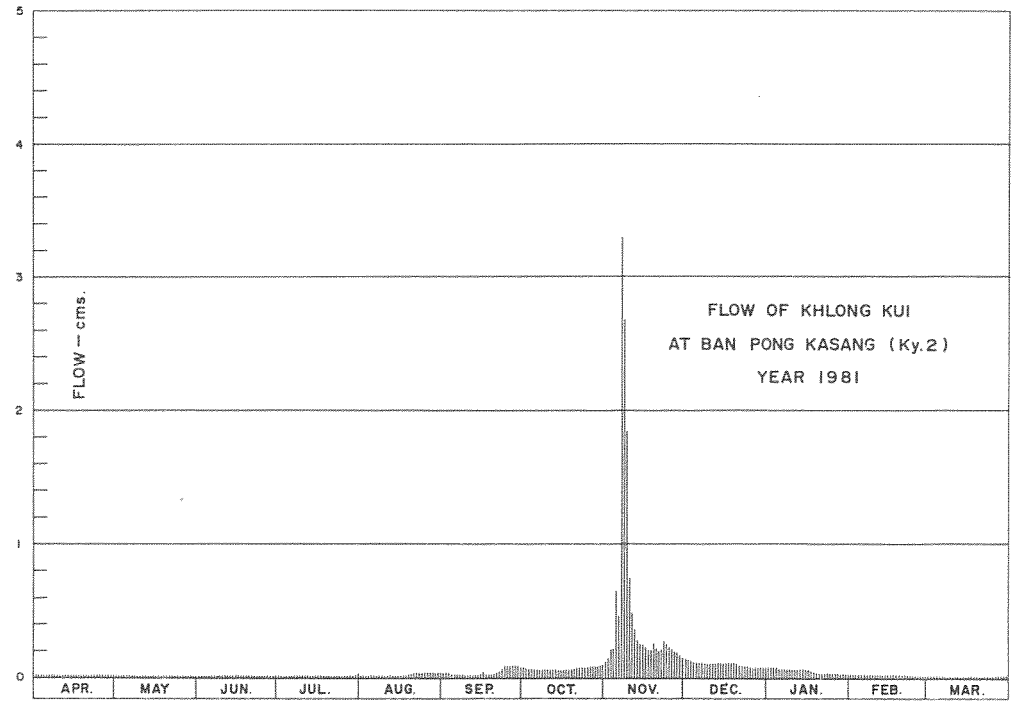
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.05	0.00	0.00	0.00	0.32	0.46	0.53	0.59	0.61	0.53	0.45	0.41	
2	0.05	0.00	0.00	0.00	0.32	0.46	0.53	0.61	0.61	0.53	0.45	0.41	
3	0.05	0.00	0.00	0.00	0.32	0.46	0.52	0.67	0.60	0.53	0.45	0.41	
4	0.05	0.00	0.00	0.00	0.32	0.45	0.52	0.67	0.59	0.53	0.45	0.41	
5	0.04	0.00	0.00	0.00	0.32	0.45	0.52	0.91	0.59	0.52	0.45	0.41	
6	0.04	0.00	0.00	0.00	0.34	0.45	0.51	0.81	0.59	0.52	0.45	0.41	
7	0.04	0.00	0.00	0.00	0.35	0.45	0.51	1.75	0.59	0.52	0.45	0.41	
8	0.03	0.00	0.00	0.00	0.34	0.44	0.51	1.56	0.59	0.52	0.45	0.41	
9	0.03	0.00	0.00	0.23	0.33	0.43	0.51	1.28	0.59	0.52	0.45	0.41	
10	0.03	0.00	0.00	0.26	0.33	0.43	0.51	0.95	0.58	0.51	0.45	0.41	
11	0.02	0.00	0.00	0.27	0.33	0.43	0.52	0.81	0.58	0.51	0.45	0.40	
12	0.01	0.00	0.00	0.29	0.33	0.42	0.51	0.75	0.58	0.51	0.44	0.40	
13	0.01	0.00	0.00	0.31	0.34	0.42	0.51	0.71	0.58	0.51	0.44	0.40	
14	0.00	0.00	0.00	0.32	0.35	0.42	0.51	0.69	0.58	0.51	0.44	0.40	
15	0.00	0.00	0.00	0.32	0.35	0.45	0.51	0.70	0.58	0.51	0.44	0.38	
16	0.00	0.00	0.00	0.32	0.36	0.47	0.51	0.68	0.58	0.50	0.44	0.24	
17	0.00	0.00	0.00	0.33	0.37	0.45	0.51	0.66	0.58	0.50	0.44	0.22	
18	0.00	0.00	0.00	0.33	0.39	0.45	0.51	0.67	0.57	0.48	0.44	0.22	
19	0.00	0.00	0.00	0.33	0.42	0.45	0.51	0.70	0.57	0.46	0.44	0.22	
20	0.00	0.00	0.00	0.33	0.44	0.45	0.52	0.67	0.57	0.46	0.44	0.21	
21	0.00	0.00	0.00	0.34	0.45	0.47	0.55	0.65	0.56	0.46	0.44	0.21	
22	0.00	0.00	0.00	0.34	0.46	0.48	0.55	0.66	0.55	0.46	0.44	0.21	
23	0.00	0.00	0.00	0.33	0.46	0.52	0.55	0.71	0.55	0.46	0.43	0.21	
24	0.00	0.00	0.00	0.33	0.47	0.55	0.55	0.70	0.54	0.45	0.43	0.21	
25	0.00	0.00	0.00	0.33	0.47	0.55	0.55	0.68	0.53	0.45	0.42	0.21	
26	0.00	0.00	0.00	0.33	0.47	0.55	0.55	0.66	0.53	0.45	0.42	0.21	
27	0.00	0.00	0.00	0.35	0.47	0.54	0.55	0.65	0.53	0.45	0.42	0.21	
28	0.00	0.00	0.00	0.34	0.47	0.54	0.55	0.64	0.53	0.45	0.41	0.21	
29	0.00	0.00	0.00	0.33	0.47	0.53	0.56	0.63	0.53	0.45		0.21	
30	0.00	0.00	0.00	0.32	0.47	0.53	0.56	0.62	0.53	0.45		0.21	
31		0.00		0.33	0.47		0.56		0.53	0.45		0.20	
MEAN	0.01	0.00	0.00	0.24	0.39	0.47	0.53	0.78	0.57	0.49	0.44	0.31	
MAX	0.05	0.00	0.00	0.35	0.47	0.55	0.56	1.75	0.61	0.53	0.45	0.41	1.75
MIN	0.00	0.00	0.00	0.00	0.32	0.42	0.51	0.59	0.53	0.45	0.41	0.20	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.31 M (A.D), AT 10.00 HOURS, ON NOV 7, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — 5.19 M (A.D)

RIGHT BANK ELEVATION — 7.35 M (A.D), DRAINAGE AREA — 92 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

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	0.03	0.07	0.11	0.13	0.07	0.02	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.13	0.13	0.07	0.02	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.21	0.12	0.07	0.02	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.21	0.11	0.07	0.02	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.64	0.11	0.06	0.02	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.45	0.11	0.06	0.02	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.02	0.06	3.29	0.11	0.06	0.02	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.02	0.06	2.56	0.11	0.06	0.02	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.01	0.06	1.60	0.11	0.06	0.02	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.73	0.11	0.06	0.02	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.45	0.11	0.06	0.02	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.34	0.11	0.06	0.02	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.27	0.11	0.06	0.02	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.24	0.11	0.06	0.02	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.25	0.11	0.06	0.02	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.22	0.11	0.05	0.02	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.20	0.11	0.05	0.02	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.21	0.10	0.04	0.02	0.00	
19	0.00	0.00	0.00	0.00	0.01	0.02	0.06	0.25	0.10	0.03	0.02	0.00	
20	0.00	0.00	0.00	0.00	0.02	0.02	0.06	0.21	0.10	0.03	0.02	0.00	
21	0.00	0.00	0.00	0.00	0.02	0.03	0.08	0.19	0.09	0.03	0.02	0.00	
22	0.00	0.00	0.00	0.00	0.03	0.04	0.08	0.20	0.08	0.03	0.02	0.00	
23	0.00	0.00	0.00	0.00	0.03	0.06	0.08	0.27	0.08	0.03	0.01	0.00	
24	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.25	0.08	0.02	0.01	0.00	
25	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.22	0.07	0.02	0.01	0.00	
26	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.20	0.07	0.02	0.01	0.00	
27	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.19	0.07	0.02	0.01	0.00	
28	0.00	0.00	0.00	0.00	0.03	0.08	0.08	0.17	0.07	0.02	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.03	0.07	0.09	0.16	0.07	0.02		0.00	
30	0.00	0.00	0.00	0.00	0.03	0.07	0.09	0.15	0.07	0.02		0.00	
31		0.00		0.00	0.03		0.09		0.07	0.02		0.00	
TOTAL	0.00	0.00	0.00	0.00	0.35	1.05	2.13	14.57	3.04	1.39	0.49	0.00	23.02 CMSDAY
MEAN	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.49	0.10	0.04	0.02	0.00	0.06 CMS
MAX	0.00	0.00	0.00	0.00	0.03	0.08	0.09	3.29	0.13	0.07	0.02	0.00	3.29 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.11	0.07	0.02	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.000	0.030	0.091	0.184	1.259	0.263	0.120	0.042	0.000	1.989 MCM

MOMENTARY PEAK 5.75 CMS, AT 2.31 M (A.D), AT 10.00 HOURS, ON NOV 7, 1981

RUNOFF YIELD 0.69 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 62.50 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 64 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

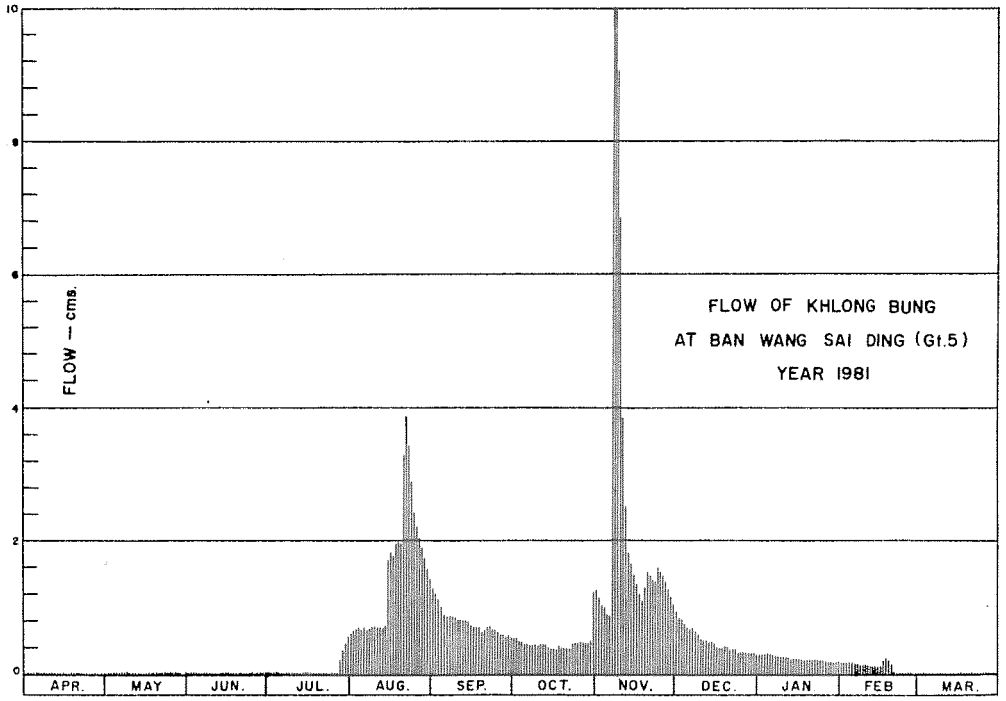
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	1.96	2.08	1.94	2.09	2.02	1.88	1.85	1.82	
2	0.00	0.00	0.00	0.00	1.97	2.07	1.94	2.06	2.00	1.88	1.85	1.82	
3	0.00	0.00	0.00	0.00	1.97	2.06	1.93	2.03	2.00	1.88	1.85	1.82	
4	0.00	0.00	0.00	0.00	1.98	2.04	1.93	2.02	1.99	1.88	1.85	1.81	
5	0.00	0.00	0.00	0.00	1.97	2.02	1.92	2.01	1.98	1.88	1.85	1.81	
6	0.00	0.00	0.00	0.00	1.98	2.01	1.92	2.01	1.97	1.88	1.85	1.81	
7	0.00	0.00	0.00	0.00	1.97	2.01	1.92	2.31	1.97	1.87	1.84	1.80	
8	0.00	0.00	0.00	0.00	1.98	2.01	1.92	3.00	1.96	1.87	1.84	1.80	
9	0.00	0.00	0.00	0.00	1.98	2.01	1.92	2.86	1.95	1.87	1.84	1.79	
10	0.00	0.00	0.00	0.00	1.98	2.00	1.92	2.53	1.94	1.87	1.84	1.79	
11	0.00	0.00	0.00	0.00	1.98	2.00	1.92	2.35	1.93	1.87	1.83	1.79	
12	0.00	0.00	0.00	0.00	1.98	2.00	1.92	2.24	1.93	1.87	1.83	1.78	
13	0.00	0.00	0.00	0.00	1.98	2.00	1.92	2.16	1.92	1.86	1.83	1.78	
14	0.36	0.00	0.00	0.00	1.99	2.00	1.91	2.12	1.92	1.86	1.83	1.77	
15	1.40	0.00	0.00	0.00	2.14	1.98	1.91	2.11	1.92	1.86	1.83	1.77	
16	0.64	0.00	0.00	0.00	2.16	1.98	1.91	2.09	1.91	1.86	1.83	1.77	
17	0.23	0.00	0.00	0.01	2.15	1.98	1.91	2.06	1.91	1.86	1.86	1.76	
18	0.00	0.00	0.00	0.06	2.19	1.98	1.92	2.05	1.91	1.86	1.87	1.74	
19	0.00	0.00	0.00	0.18	2.20	1.96	1.91	2.10	1.91	1.86	1.85	1.70	
20	0.00	0.00	0.00	0.32	2.18	1.97	1.91	2.12	1.91	1.86	1.83	1.65	
21	0.00	0.00	0.00	0.54	2.34	1.98	1.91	2.11	1.90	1.86	1.82	1.59	
22	0.00	0.00	0.00	0.90	2.41	1.98	1.91	2.10	1.90	1.86	1.82	1.53	
23	0.00	0.00	0.00	1.16	2.34	1.97	1.90	2.10	1.90	1.86	1.82	1.46	
24	0.00	0.00	0.00	1.36	2.27	1.97	1.90	2.13	1.89	1.86	1.82	1.36	
25	0.00	0.00	0.00	1.53	2.23	1.96	1.90	2.12	1.89	1.86	1.82	1.23	
26	0.00	0.00	0.00	1.64	2.21	1.95	1.90	2.11	1.89	1.85	1.82	1.14	
27	0.00	0.00	0.00	1.77	2.19	1.95	1.90	2.09	1.89	1.85	1.82	1.06	
28	0.00	0.00	0.00	1.88	2.17	1.94	1.90	2.07	1.89	1.85	1.82	0.99	
29	0.00	0.00	0.00	1.91	2.14	1.95	1.90	2.06	1.89	1.85		0.92	
30	0.00	0.00	0.00	1.93	2.12	1.94	1.93	2.04	1.89	1.85		0.85	
31		0.00		1.95	2.10		2.09		1.88	1.85		0.80	
MEAN	0.09	0.00	0.00	0.55	2.10	1.99	1.92	2.17	1.93	1.86	1.84	1.56	
MAX	1.40	0.00	0.00	1.95	2.41	2.08	2.09	3.00	2.02	1.88	1.87	1.82	3.00
MIN	0.00	0.00	0.00	0.00	1.96	1.94	1.90	2.01	1.88	1.85	1.82	0.80	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.44 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.58 M (A.D)

LEFT BANK ELEVATION — 5.50 M (A.D)

RIGHT BANK ELEVATION — 5.28 M (A.D), DRAINAGE AREA — 141 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL I, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.00	0.62	1.28	0.53	1.34	0.92	0.28	0.17	0.07	
2	0.00	0.00	0.00	0.00	0.66	1.22	0.53	1.16	0.80	0.28	0.17	0.07	
3	0.00	0.00	0.00	0.00	0.66	1.16	0.48	0.98	0.80	0.28	0.17	0.07	
4	0.00	0.00	0.00	0.00	0.71	1.04	0.48	0.92	0.75	0.28	0.17	0.03	
5	0.00	0.00	0.00	0.00	0.66	0.92	0.44	0.86	0.71	0.28	0.17	0.03	
6	0.00	0.00	0.00	0.00	0.71	0.86	0.44	0.86	0.66	0.28	0.17	0.03	
7	0.00	0.00	0.00	0.00	0.66	0.86	0.44	2.94	0.66	0.24	0.14	0.00	
8	0.00	0.00	0.00	0.00	0.71	0.86	0.44	12.80	0.62	0.24	0.14	0.00	
9	0.00	0.00	0.00	0.00	0.71	0.86	0.44	9.96	0.57	0.24	0.14	0.00	
10	0.00	0.00	0.00	0.00	0.71	0.80	0.44	5.16	0.53	0.24	0.14	0.00	
11	0.00	0.00	0.00	0.00	0.71	0.80	0.44	3.30	0.48	0.24	0.10	0.00	
12	0.00	0.00	0.00	0.00	0.71	0.80	0.44	2.40	0.48	0.24	0.10	0.00	
13	0.00	0.00	0.00	0.00	0.71	0.80	0.44	1.82	0.44	0.21	0.10	0.00	
14	0.00	0.00	0.00	0.00	0.75	0.80	0.39	1.54	0.44	0.21	0.10	0.00	
15	0.00	0.00	0.00	0.00	1.68	0.71	0.39	1.47	0.44	0.21	0.10	0.00	
16	0.00	0.00	0.00	0.00	1.82	0.71	0.39	1.34	0.39	0.21	0.10	0.00	
17	0.00	0.00	0.00	0.00	1.75	0.71	0.39	1.16	0.39	0.21	0.21	0.00	
18	0.00	0.00	0.00	0.00	2.03	0.71	0.44	1.10	0.39	0.21	0.24	0.00	
19	0.00	0.00	0.00	0.00	2.10	0.62	0.39	1.40	0.39	0.21	0.17	0.00	
20	0.00	0.00	0.00	0.00	1.96	0.66	0.39	1.54	0.39	0.21	0.10	0.00	
21	0.00	0.00	0.00	0.00	3.21	0.71	0.39	1.47	0.35	0.21	0.07	0.00	
22	0.00	0.00	0.00	0.00	3.86	0.71	0.39	1.40	0.35	0.21	0.07	0.00	
23	0.00	0.00	0.00	0.00	3.21	0.66	0.35	1.40	0.35	0.21	0.07	0.00	
24	0.00	0.00	0.00	0.00	2.63	0.66	0.35	1.61	0.31	0.21	0.07	0.00	
25	0.00	0.00	0.00	0.00	2.32	0.62	0.35	1.54	0.31	0.21	0.07	0.00	
26	0.00	0.00	0.00	0.00	2.17	0.57	0.35	1.47	0.31	0.17	0.07	0.00	
27	0.00	0.00	0.00	0.00	2.03	0.57	0.35	1.34	0.31	0.17	0.07	0.00	
28	0.00	0.00	0.00	0.28	1.89	0.53	0.35	1.22	0.31	0.17	0.07	0.00	
29	0.00	0.00	0.00	0.39	1.68	0.57	0.35	1.16	0.31	0.17		0.00	
30	0.00	0.00	0.00	0.48	1.54	0.53	0.48	1.04	0.31	0.17		0.00	
31		0.00		0.57	1.40		1.34		0.28	0.17		0.00	
TOTAL	0.00	0.00	0.00	1.72	46.97	23.31	13.81	67.70	14.75	6.87	3.46	0.30	178.89 CMSDAY
MEAN	0.00	0.00	0.00	0.06	1.52	0.78	0.45	2.26	0.48	0.22	0.12	0.01	0.49 CMS
MAX	0.00	0.00	0.00	0.57	3.86	1.28	1.34	12.80	0.92	0.28	0.24	0.07	12.80 CMS
MIN	0.00	0.00	0.00	0.00	0.62	0.53	0.35	0.86	0.28	0.17	0.07	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.000	0.149	4.058	2.014	1.193	5.849	1.274	0.594	0.299	0.026	15.456 MCM

MOMENTARY PEAK 27.18 CMS, AT 3.44 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 3.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 192.77 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WEST COAST-GULF BASIN

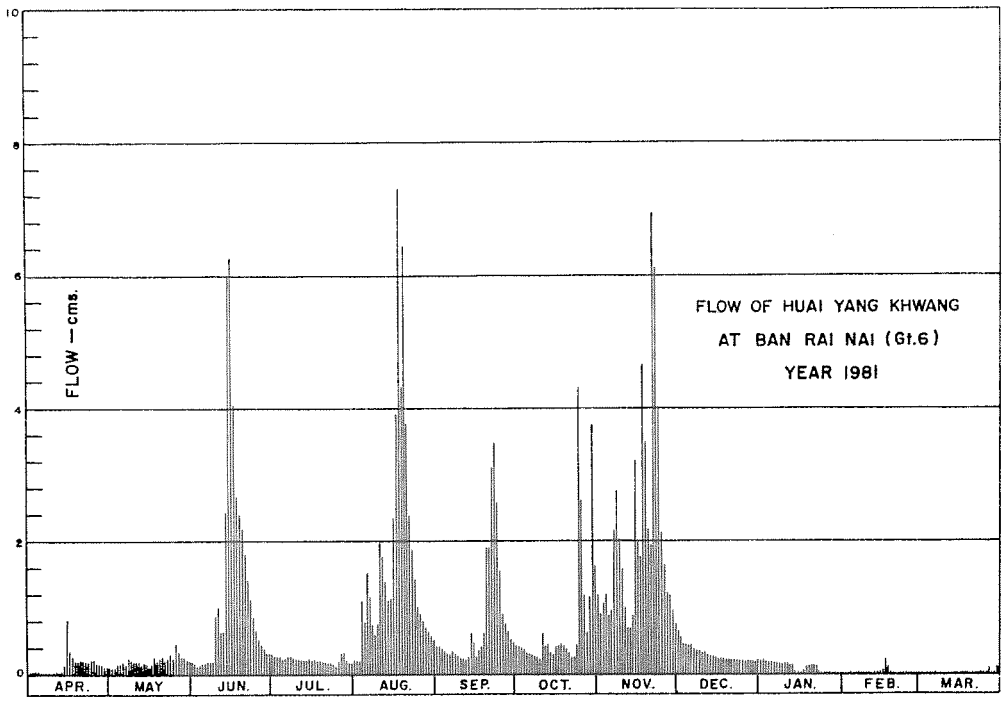
KHLONG YANG KHWANG AT BAN RAI NAI, PRACHUAP KHIRI KHAN (GT.6)

LOCATION	LAT. 11-10-31 N., LONG. 99-21-27 E., ON LEFT BANK AT BAN RAI NAI, AMPHOE BANG SAPHAN, PRACHUAP KHIRI KHAN.
DRAINAGE AREA	37 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 128 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.54	0.60	0.65	0.72	0.67	0.77	0.77	0.95	0.84	0.65	0.57	0.55	
2	0.55	0.60	0.62	0.71	0.66	0.76	0.76	0.90	0.82	0.65	0.58	0.55	
3	0.55	0.60	0.61	0.70	0.64	0.75	0.76	0.94	0.79	0.64	0.58	0.54	
4	0.55	0.64	0.62	0.70	0.94	0.74	0.75	0.97	0.77	0.64	0.58	0.54	
5	0.55	0.64	0.63	0.69	0.87	0.73	0.73	0.89	0.77	0.63	0.58	0.55	
6	0.56	0.65	0.64	0.69	1.02	0.72	0.72	0.95	0.76	0.63	0.58	0.56	
7	0.56	0.63	0.66	0.70	0.96	0.73	0.71	1.12	0.75	0.63	0.57	0.55	
8	0.55	0.70	0.65	0.70	0.85	0.72	0.70	1.19	0.73	0.62	0.57	0.54	
9	0.54	0.68	0.66	0.69	0.82	0.71	0.70	1.10	0.73	0.62	0.57	0.53	
10	0.54	0.66	0.90	0.69	0.89	0.70	0.69	1.02	0.72	0.62	0.57	0.53	
11	0.55	0.65	0.93	0.68	1.10	0.69	0.83	0.94	0.72	0.62	0.57	0.53	
12	0.59	0.64	0.83	0.67	1.05	0.69	0.76	0.85	0.71	0.61	0.57	0.50	
13	0.59	0.63	0.83	0.67	0.98	0.72	0.78	0.85	0.70	0.60	0.57	0.50	
14	0.65	0.64	1.19	0.67	0.94	0.83	0.73	0.91	0.70	0.59	0.56	0.48	
15	0.88	0.62	1.48	0.67	0.95	0.78	0.72	1.24	0.70	0.59	0.56	0.47	
16	0.73	0.60	1.50	0.67	1.17	0.71	0.77	1.07	0.69	0.59	0.57	0.47	
17	0.70	0.64	1.35	0.66	1.34	0.76	0.77	1.06	0.68	0.59	0.68	0.47	
18	0.67	0.70	1.17	0.65	1.56	0.79	0.78	1.38	0.68	0.60	0.60	0.47	
19	0.66	0.66	1.15	0.64	1.35	0.93	0.76	1.22	0.67	0.61	0.59	0.47	
20	0.69	0.69	1.13	0.64	1.51	1.08	0.75	1.11	0.67	0.60	0.59	0.47	
21	0.65	0.70	1.07	0.64	1.23	1.08	0.72	1.08	0.67	0.60	0.58	0.47	
22	0.66	0.67	1.00	0.63	1.12	1.23	0.70	1.54	0.67	0.60	0.57	0.46	
23	0.66	0.69	0.95	0.63	1.05	1.27	0.70	1.46	0.67	0.59	0.57	0.46	
24	0.67	0.72	0.89	0.62	0.98	1.10	0.79	1.23	0.66	0.59	0.57	0.46	
25	0.67	0.69	0.84	0.61	0.93	0.98	1.35	1.09	0.66	0.59	0.56	0.45	
26	0.64	0.79	0.80	0.64	0.89	0.91	1.02	1.03	0.66	0.58	0.56	0.45	
27	0.63	0.73	0.78	0.73	0.87	0.86	0.91	0.96	0.66	0.58	0.55	0.61	
28	0.62	0.71	0.75	0.72	0.85	0.83	0.83	0.96	0.66	0.58	0.56	0.53	
29	0.61	0.69	0.73	0.65	0.83	0.81	1.00	0.91	0.65	0.58		0.58	
30	0.61	0.67	0.72	0.64	0.82	0.79	1.30	0.87	0.65	0.58		0.60	
31		0.65		0.64	0.80		1.06		0.65	0.58		0.56	
MEAN	0.62	0.66	0.89	0.67	0.99	0.84	0.82	1.06	0.71	0.61	0.58	0.51	
MAX	0.88	0.79	1.50	0.73	1.56	1.27	1.35	1.54	0.84	0.65	0.68	0.61	1.56
MIN	0.54	0.60	0.61	0.61	0.64	0.69	0.69	0.85	0.65	0.58	0.55	0.45	0.45

ANNUAL MAX MOMENTARY GAGE HEIGHT 2.25 M (A.D), AT 24.00 HOURS, ON JUN 14, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.50 M (A.D)
LEFT BANK ELEVATION 15.15 M (A.D)
RIGHT BANK ELEVATION 6.06 M (A.D), DRAINAGE AREA 37 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.10	0.18	0.30	0.21	0.43	0.43	1.15	0.66	0.18	0.07	0.05	
2	0.05	0.10	0.13	0.27	0.19	0.40	0.40	0.90	0.58	0.18	0.08	0.05	
3	0.05	0.10	0.11	0.25	0.16	0.38	0.40	1.10	0.47	0.16	0.08	0.04	
4	0.05	0.16	0.13	0.25	1.10	0.35	0.38	1.25	0.43	0.16	0.08	0.04	
5	0.05	0.16	0.15	0.23	0.78	0.32	0.32	0.86	0.43	0.15	0.08	0.05	
6	0.06	0.18	0.16	0.23	1.53	0.30	0.30	1.15	0.40	0.15	0.08	0.06	
7	0.06	0.15	0.19	0.25	1.20	0.32	0.27	2.21	0.38	0.15	0.07	0.05	
8	0.05	0.25	0.18	0.25	0.70	0.30	0.25	2.77	0.32	0.13	0.07	0.04	
9	0.04	0.22	0.19	0.23	0.58	0.27	0.25	2.05	0.32	0.13	0.07	0.03	
10	0.04	0.19	0.90	0.23	0.86	0.25	0.23	1.53	0.30	0.13	0.07	0.03	
11	0.05	0.18	1.05	0.22	2.05	0.23	0.62	1.10	0.30	0.13	0.07	0.03	
12	0.09	0.16	0.62	0.21	1.72	0.23	0.40	0.70	0.27	0.11	0.07	0.00	
13	0.09	0.15	0.62	0.21	1.30	0.30	0.45	0.70	0.25	0.10	0.07	0.00	
14	0.18	0.16	2.77	0.21	1.10	0.62	0.32	0.95	0.25	0.09	0.06	0.00	
15	0.82	0.13	5.98	0.21	1.15	0.45	0.30	3.21	0.25	0.09	0.06	0.00	
16	0.32	0.10	6.25	0.21	2.61	0.27	0.43	1.85	0.23	0.09	0.07	0.00	
17	0.25	0.16	4.32	0.19	4.21	0.40	0.43	1.79	0.22	0.09	0.22	0.00	
18	0.21	0.25	2.61	0.18	7.30	0.47	0.45	4.67	0.22	0.10	0.10	0.00	
19	0.19	0.19	2.45	0.16	4.32	1.05	0.40	3.03	0.21	0.11	0.09	0.00	
20	0.23	0.23	2.29	0.16	6.42	1.92	0.38	2.13	0.21	0.10	0.09	0.00	
21	0.18	0.25	1.85	0.16	3.12	1.92	0.30	1.92	0.21	0.10	0.08	0.00	
22	0.19	0.21	1.40	0.15	2.21	3.12	0.25	6.95	0.21	0.10	0.07	0.00	
23	0.19	0.23	1.15	0.15	1.72	3.48	0.25	5.71	0.21	0.09	0.07	0.00	
24	0.21	0.30	0.86	0.13	1.30	2.05	0.47	3.12	0.19	0.09	0.07	0.00	
25	0.21	0.23	0.66	0.11	1.05	1.30	4.32	1.98	0.19	0.09	0.06	0.00	
26	0.16	0.47	0.50	0.16	0.86	0.95	1.53	1.59	0.19	0.08	0.06	0.00	
27	0.15	0.32	0.45	0.32	0.78	0.74	0.95	1.20	0.19	0.08	0.05	0.11	
28	0.13	0.27	0.38	0.30	0.70	0.62	0.62	1.20	0.19	0.08	0.06	0.03	
29	0.11	0.23	0.32	0.18	0.62	0.54	1.40	0.95	0.18	0.08		0.08	
30	0.11	0.21	0.30	0.16	0.58	0.47	3.75	0.78	0.18	0.08		0.10	
31		0.18		0.16	0.50		1.79		0.18	0.08		0.06	
TOTAL	4.56	6.22	39.15	6.43	52.93	24.45	23.04	60.56	8.82	3.48	2.17	0.85	232.60 CMSDAY
MEAN	0.15	0.20	1.30	0.21	1.71	0.81	0.74	2.02	0.28	0.11	0.08	0.03	0.64 CMS
MAX	0.82	0.47	6.25	0.32	7.30	3.48	4.32	6.95	0.66	0.18	0.22	0.11	7.30 CMS
MIN	0.04	0.10	0.11	0.11	0.16	0.23	0.23	0.70	0.18	0.08	0.05	0.00	0.00 CMS
RUNOFF	0.394	0.537	3.383	0.556	4.573	2.112	1.991	5.227	0.762	0.301	0.187	0.073	20.097 MCM

MOMENTARY PEAK 29.20 CMS, AT 2.25 M (A.D), AT 24.00 HOURS, ON JUN 14, 1981

RUNOFF YIELD 17.22 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 789.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

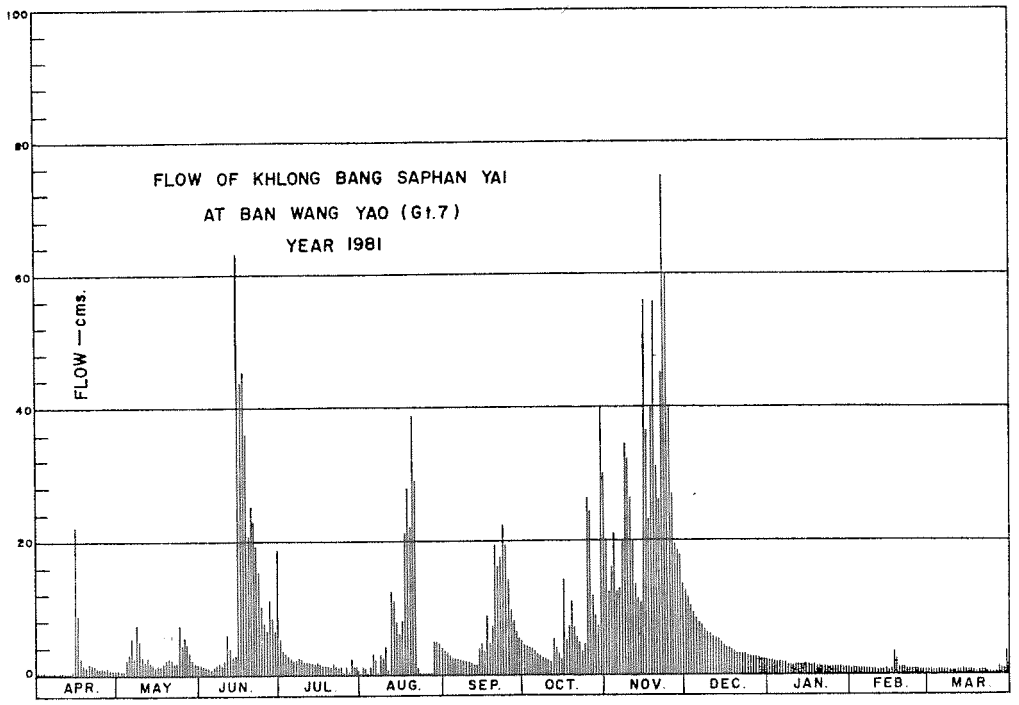
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.34	0.52	0.89	0.46	0.83	0.91	1.83	1.55	0.63	0.42	0.36	
2	0.23	0.33	0.47	0.82	0.46	0.78	0.88	1.57	1.47	0.62	0.41	0.36	
3	0.22	0.32	0.45	0.77	0.43	0.73	0.86	1.83	1.39	0.61	0.41	0.35	
4	0.21	0.64	0.44	0.73	0.48	0.71	0.86	2.09	1.32	0.60	0.41	0.35	
5	0.21	0.76	0.44	0.67	0.76	0.67	0.80	1.58	1.27	0.59	0.41	0.34	
6	0.21	1.03	0.46	0.66	0.72	0.65	0.76	1.68	1.21	0.58	0.40	0.33	
7	0.21	0.67	0.56	0.63	0.00	0.65	0.73	2.04	1.16	0.57	0.40	0.33	
8	0.20	1.22	0.58	0.68	0.77	0.63	0.70	2.70	1.11	0.56	0.39	0.33	
9	0.20	1.00	0.50	0.64	0.67	0.61	0.67	2.58	1.07	0.55	0.38	0.33	
10	0.20	0.72	0.69	0.62	0.91	0.60	0.65	2.23	1.05	0.54	0.38	0.33	
11	0.19	0.61	1.08	0.59	0.00	0.57	0.64	1.83	1.02	0.53	0.37	0.33	
12	0.19	0.65	0.86	0.58	1.58	0.56	1.01	1.60	1.00	0.52	0.37	0.32	
13	0.31	0.56	0.73	0.57	1.45	0.58	0.87	1.49	0.96	0.52	0.36	0.32	
14	0.32	0.55	0.74	0.56	1.19	0.93	0.74	1.44	0.93	0.51	0.36	0.31	
15	2.14	0.50	3.78	0.58	1.07	0.94	0.70	3.53	0.91	0.50	0.36	0.31	
16	0.87	0.52	3.07	0.55	1.27	0.80	1.69	2.78	0.88	0.50	0.37	0.31	
17	0.67	0.51	3.13	0.53	2.32	1.31	1.01	2.20	0.85	0.50	0.80	0.31	
18	0.54	0.59	2.43	0.50	2.42	0.94	1.27	3.20	0.82	0.50	0.59	0.30	
19	0.50	0.63	2.07	0.48	2.14	1.29	1.47	3.52	0.80	0.50	0.49	0.30	
20	0.58	0.63	2.30	0.47	2.87	1.99	1.29	2.44	0.79	0.49	0.45	0.30	
21	0.53	0.65	2.16	0.54	2.40	1.80	1.05	2.34	0.77	0.48	0.43	0.30	
22	0.50	0.61	1.90	0.49	0.00	1.98	0.92	4.18	0.75	0.47	0.41	0.29	
23	0.43	0.54	1.62	0.46	0.00	2.15	0.81	3.89	0.74	0.46	0.40	0.29	
24	0.41	1.20	1.37	0.45	0.00	1.95	0.99	3.27	0.72	0.46	0.38	0.29	
25	0.43	0.90	1.20	0.43	0.00	1.64	2.35	2.58	0.71	0.45	0.37	0.29	
26	0.40	1.04	1.10	0.47	0.00	1.40	2.20	2.21	0.70	0.45	0.37	0.29	
27	0.38	0.90	1.50	0.44	0.00	1.22	1.55	1.95	0.68	0.44	0.37	0.43	
28	0.36	0.73	1.29	0.65	0.99	1.09	1.30	1.94	0.67	0.43	0.37	0.38	
29	0.35	0.62	1.11	0.49	0.95	1.02	1.16	1.86	0.66	0.43		0.41	
30	0.34	0.58	1.95	0.46	0.92	0.96	2.92	1.67	0.65	0.43		0.76	
31		0.53		0.44	0.86		2.37		0.64	0.42		0.52	
MEAN	0.42	0.68	1.35	0.58	0.91	1.07	1.17	2.33	0.94	0.51	0.42	0.35	
MAX	2.14	1.22	3.78	0.89	2.87	2.15	2.92	4.18	1.55	0.63	0.80	0.76	4.18
MIN	0.19	0.32	0.44	0.43	0.00	0.56	0.64	1.44	0.64	0.42	0.36	0.29	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.65 M (A.D), AT 18.00 HOURS, ON NOV 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.15 M (A.D)

LEFT BANK ELEVATION — 8.08 M (A.D)

RIGHT BANK ELEVATION — 8.15 M (A.D), DRAINAGE AREA — 346 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.56	1.33	4.20	1.04	3.63	4.39	16.51	12.10	2.06	0.88	0.64	
2	0.12	0.52	1.08	3.54	1.04	3.19	4.11	12.38	10.98	1.99	0.84	0.64	
3	0.08	0.48	1.00	3.11	0.92	2.79	3.92	16.51	9.87	1.92	0.84	0.60	
4	0.04	2.13	0.96	2.79	1.12	2.63	3.92	21.21	9.00	1.85	0.84	0.60	
5	0.04	3.03	0.96	2.34	3.03	2.34	3.35	12.52	8.39	1.78	0.84	0.56	
6	0.04	5.58	1.04	2.27	2.71	2.20	3.03	14.08	7.67	1.72	0.80	0.52	
7	0.04	2.34	1.59	2.06	0.00	2.20	2.79	20.26	7.07	1.65	0.80	0.52	
8	0.00	7.79	1.72	2.41	3.11	2.06	2.55	34.50	6.47	1.59	0.76	0.52	
9	0.00	5.25	1.20	2.13	2.34	1.92	2.34	31.74	6.02	1.52	0.72	0.52	
10	0.00	2.71	2.48	1.99	4.39	1.85	2.20	24.01	5.80	1.46	0.72	0.52	
11	0.00	1.92	6.13	1.78	0.00	1.65	2.13	16.51	5.47	1.39	0.68	0.52	
12	0.00	2.20	3.92	1.72	12.52	1.59	5.36	12.80	5.25	1.33	0.68	0.48	
13	0.44	1.59	2.79	1.65	10.70	1.72	4.01	11.26	4.87	1.33	0.64	0.48	
14	0.48	1.52	2.87	1.59	7.43	4.58	2.87	10.56	4.58	1.26	0.64	0.44	
15	22.20	1.20	63.14	1.72	6.02	4.68	2.55	56.14	4.39	1.20	0.64	0.44	
16	4.01	1.33	43.82	1.52	8.39	3.35	14.24	36.50	4.11	1.20	0.68	0.44	
17	2.34	1.26	45.38	1.39	25.88	8.87	5.36	23.40	3.82	1.20	3.35	0.44	
18	1.46	1.78	28.29	1.20	28.06	4.68	8.39	47.20	3.54	1.20	1.78	0.40	
19	1.20	2.06	20.83	1.12	22.20	8.63	10.98	55.86	3.35	1.20	1.16	0.40	
20	1.72	2.06	25.45	1.08	38.75	19.32	8.63	28.52	3.27	1.16	1.00	0.40	
21	1.39	2.20	22.60	1.46	27.60	16.00	5.80	26.31	3.11	1.12	0.92	0.40	
22	1.20	1.92	17.70	1.16	0.00	19.14	4.49	74.52	2.95	1.08	0.84	0.36	
23	0.92	1.46	13.12	1.04	0.00	22.40	3.44	66.22	2.87	1.04	0.80	0.36	
24	0.84	7.55	9.62	1.00	0.00	18.60	5.15	49.09	2.71	1.04	0.72	0.36	
25	0.92	4.30	7.55	0.92	0.00	13.44	26.52	31.74	2.63	1.00	0.68	0.36	
26	0.80	5.69	6.35	1.08	0.00	10.00	23.40	23.60	2.55	1.00	0.68	0.36	
27	0.72	4.30	11.40	0.96	0.00	7.79	12.10	18.60	2.41	0.96	0.68	0.92	
28	0.64	2.79	8.63	2.20	5.15	6.24	8.75	18.42	2.34	0.92	0.68	0.72	
29	0.60	1.99	6.47	1.16	4.77	5.47	7.07	17.02	2.27	0.92		0.84	
30	0.56	1.72	18.60	1.04	4.49	4.87	40.00	13.92	2.20	0.92		3.03	
31		1.39		0.96	3.92		26.95		2.13	0.88		1.33	
TOTAL	42.88	82.62	378.02	54.59	225.58	207.83	260.79	841.91	154.19	40.89	25.29	19.12	2333.71 CMSDAY
MEAN	1.43	2.67	12.60	1.76	7.28	6.93	8.41	28.06	4.97	1.32	0.90	0.62	6.39 CMS
MAX	22.20	7.79	63.14	4.20	38.75	22.40	40.00	74.52	12.10	2.06	3.35	3.03	74.52 CMS
MIN	0.00	0.48	0.96	0.92	0.00	1.59	2.13	10.56	2.13	0.88	0.64	0.36	0.00 CMS
RUNOFF	3.705	7.138	32.661	4.717	19.490	17.956	22.532	72.741	13.322	3.533	2.185	1.652	201.632 MCM

MOMENTARY PEAK 88.50 CMS, AT 4.65 M (A.D), AT 18.00 HOURS, ON NOV 22, 1981
RUNOFF YIELD 18.48 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 255.78 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

WEST COAST-GULF BASIN

KHLONG WA THON AT BAN RAI KHLONG, PRACHUAP KHIRI KHAN (GT.8)

LOCATION — LAT. 11°-43'-29" N., LONG. 99°-43'-53" E., ON RIGHT BANK AT THE BRIDGE OF PRACHUAP KHIRI KHAN-PHETCHABURI HIGHWAY AND NEAR KILOMETER MARKER 335-336 AT BAN RAI KHLONG, TAMBON HUAI SAI, AMPHOE MUANG, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 44 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.=H.D.

LOCATION — ON RIGHT BANK ABOUT 25 METERS FROM THE TOP STAFF GAGE.

ELEVATION — +5.292 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 — 1981 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1981 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

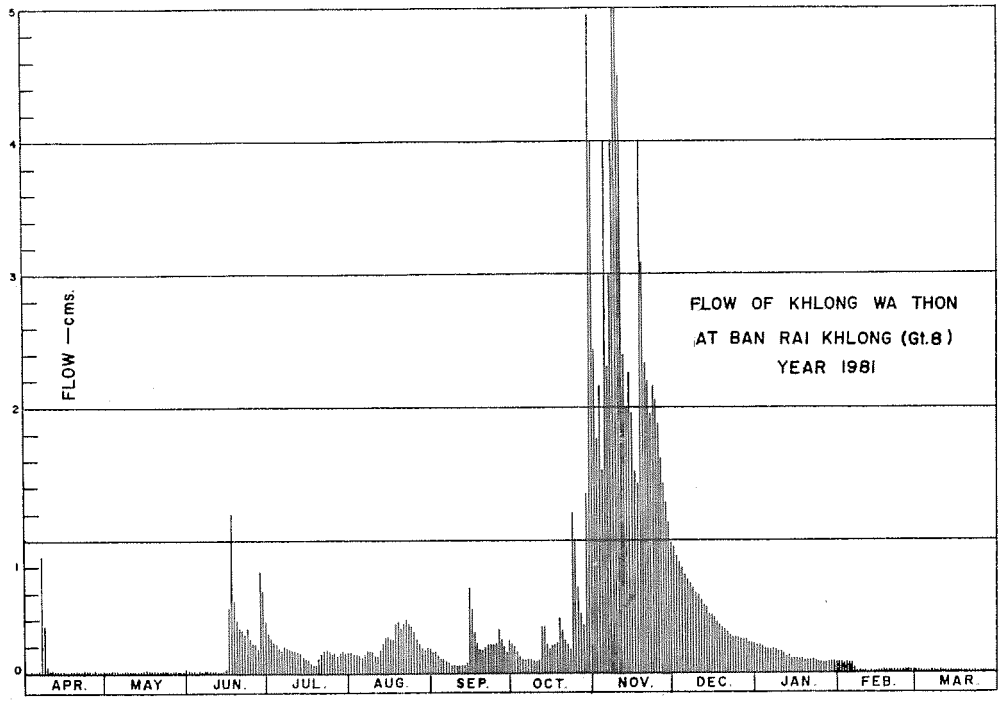
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 10 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.22	0.00	0.19	0.55	0.43	0.44	0.48	1.17	0.81	0.48	0.35	1.01	
2	0.22	0.00	0.16	0.52	0.42	0.43	0.45	1.05	0.79	0.48	0.35	1.01	
3	0.22	0.00	0.16	0.50	0.42	0.41	0.43	1.14	0.78	0.47	0.35	1.01	
4	0.12	0.00	0.17	0.48	0.41	0.40	0.40	0.99	0.76	0.47	0.35	1.01	
5	0.10	0.00	0.16	0.46	0.41	0.38	0.38	1.45	0.74	0.46	0.35	1.01	
6	0.09	0.00	0.16	0.46	0.42	0.37	0.37	1.17	0.73	0.46	0.34	1.01	
7	0.80	0.00	0.16	0.48	0.45	0.35	0.37	1.44	0.72	0.45	0.68	1.00	
8	0.50	0.00	0.15	0.47	0.45	0.34	0.37	1.68	0.70	0.45	1.00	1.00	
9	0.10	0.00	0.17	0.46	0.44	0.33	0.37	1.69	0.69	0.44	1.00	1.00	
10	0.00	0.00	0.10	0.45	0.42	0.32	0.37	1.50	0.68	0.44	1.00	1.00	
11	0.00	0.00	0.17	0.44	0.41	0.31	0.39	1.26	0.66	0.43	1.00	1.00	
12	0.00	0.08	0.11	0.44	0.46	0.31	0.58	1.16	0.65	0.41	1.00	1.00	
13	0.00	0.19	0.11	0.43	0.50	0.31	0.57	1.10	0.64	0.41	1.00	0.99	
14	0.00	0.12	0.18	0.39	0.53	0.36	0.49	1.16	0.62	0.40	1.00	0.98	
15	0.18	0.00	0.20	0.38	0.53	0.71	0.46	1.08	0.62	0.40	1.00	0.98	
16	0.19	0.00	0.70	0.37	0.52	0.62	0.49	0.99	0.61	0.40	1.00	0.98	
17	0.13	0.00	0.90	0.34	0.52	0.55	0.48	0.96	0.59	0.39	1.01	0.98	
18	0.19	0.00	0.64	0.33	0.60	0.48	0.50	1.45	0.58	0.39	1.04	0.98	
19	0.13	0.15	0.59	0.33	0.60	0.45	0.61	1.26	0.57	0.39	1.02	0.98	
20	0.18	0.11	0.56	0.40	0.57	0.46	0.54	1.17	0.56	0.39	1.02	0.98	
21	0.19	0.06	0.56	0.44	0.60	0.48	0.50	1.11	0.55	0.38	1.02	0.98	
22	0.17	0.05	0.54	0.45	0.61	0.49	0.48	1.09	0.53	0.38	1.01	0.98	
23	0.12	0.06	0.56	0.46	0.58	0.48	0.46	1.14	0.52	0.38	1.01	0.98	
24	0.12	0.17	0.51	0.44	0.58	0.50	0.90	1.09	0.52	0.37	1.01	0.98	
25	0.00	0.16	0.49	0.43	0.54	0.50	0.82	1.05	0.52	0.37	1.01	0.98	
26	0.00	0.10	0.48	0.43	0.50	0.57	0.69	0.98	0.51	0.36	1.01	0.98	
27	0.00	0.00	0.47	0.42	0.48	0.48	0.63	0.95	0.51	0.36	1.01	0.98	
28	0.00	0.00	0.76	0.44	0.47	0.46	0.59	0.90	0.51	0.36	1.01	0.98	
29	0.00	0.00	0.66	0.44	0.46	0.44	1.04	0.86	0.50	0.36		0.98	
30	0.00	0.00	0.59	0.44	0.47	0.51	1.58	0.83	0.50	0.36		0.98	
31		0.24		0.43	0.46		1.38		0.49	0.36		0.98	
MEAN	0.13	0.05	0.38	0.44	0.49	0.44	0.59	1.16	0.62	0.41	0.86	0.99	
MAX	0.80	0.24	0.90	0.55	0.61	0.71	1.58	1.69	0.81	0.48	1.04	1.01	1.69
MIN	0.00	0.00	0.10	0.33	0.41	0.31	0.37	0.83	0.49	0.36	0.34	0.98	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.84 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED -0.07 M (A.D)
LEFT BANK ELEVATION 5.31 M (A.D)
RIGHT BANK ELEVATION 5.26 M (A.D), DRAINAGE AREA 44 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.01	0.00	0.00	0.30	0.14	0.15	0.20	2.30	0.91	0.20	0.07	0.00	
2	0.01	0.00	0.00	0.25	0.12	0.14	0.16	1.77	0.85	0.20	0.07	0.00	
3	0.01	0.00	0.00	0.22	0.12	0.11	0.14	2.16	0.82	0.18	0.07	0.00	
4	0.00	0.00	0.00	0.20	0.11	0.10	0.10	1.52	0.77	0.18	0.07	0.00	
5	0.00	0.00	0.00	0.17	0.11	0.09	0.09	3.99	0.71	0.17	0.07	0.00	
6	0.00	0.00	0.00	0.17	0.12	0.08	0.08	2.30	0.68	0.17	0.06	0.00	
7	0.88	0.00	0.00	0.20	0.16	0.07	0.08	3.92	0.66	0.16	0.00	0.00	
8	0.22	0.00	0.00	0.18	0.16	0.06	0.08	5.69	0.60	0.16	0.00	0.00	
9	0.00	0.00	0.00	0.17	0.15	0.06	0.08	5.76	0.58	0.15	0.00	0.00	
10	0.00	0.00	0.00	0.16	0.12	0.05	0.08	4.34	0.56	0.15	0.00	0.00	
11	0.00	0.00	0.00	0.15	0.11	0.05	0.09	2.78	0.51	0.14	0.00	0.00	
12	0.00	0.00	0.00	0.15	0.17	0.05	0.35	2.26	0.49	0.11	0.00	0.00	
13	0.00	0.00	0.00	0.14	0.22	0.05	0.33	1.98	0.47	0.11	0.00	0.00	
14	0.00	0.00	0.00	0.09	0.27	0.08	0.21	2.26	0.42	0.10	0.00	0.00	
15	0.00	0.00	0.00	0.09	0.27	0.63	0.17	1.90	0.42	0.10	0.00	0.00	
16	0.00	0.00	0.60	0.08	0.25	0.42	0.21	1.52	0.40	0.10	0.00	0.00	
17	0.00	0.00	1.20	0.06	0.25	0.30	0.20	1.42	0.36	0.09	0.00	0.00	
18	0.00	0.00	0.47	0.06	0.38	0.20	0.22	3.99	0.35	0.09	0.00	0.00	
19	0.00	0.00	0.36	0.06	0.38	0.16	0.40	2.78	0.33	0.09	0.00	0.00	
20	0.00	0.00	0.32	0.10	0.33	0.17	0.28	2.30	0.32	0.09	0.00	0.00	
21	0.00	0.00	0.32	0.15	0.38	0.20	0.22	2.03	0.30	0.09	0.00	0.00	
22	0.00	0.00	0.28	0.16	0.40	0.21	0.20	1.94	0.27	0.09	0.00	0.00	
23	0.00	0.00	0.32	0.17	0.35	0.20	0.17	2.16	0.25	0.09	0.00	0.00	
24	0.00	0.00	0.24	0.15	0.35	0.22	1.20	1.94	0.25	0.08	0.00	0.00	
25	0.00	0.00	0.21	0.14	0.28	0.22	0.94	1.77	0.25	0.08	0.00	0.00	
26	0.00	0.00	0.20	0.14	0.22	0.33	0.58	1.49	0.24	0.08	0.00	0.00	
27	0.00	0.00	0.18	0.12	0.20	0.20	0.45	1.38	0.24	0.08	0.00	0.00	
28	0.00	0.00	0.77	0.15	0.18	0.17	0.36	1.20	0.24	0.08	0.00	0.00	
29	0.00	0.00	0.51	0.15	0.17	0.15	1.73	1.07	0.22	0.08		0.00	
30	0.00	0.00	0.36	0.15	0.18	0.24	4.93	0.98	0.22	0.08		0.00	
31		0.02		0.14	0.17		3.51		0.21	0.08		0.00	
TOTAL	1.13	0.02	6.34	4.62	6.82	5.16	17.84	72.90	13.90	3.65	0.41	0.00	132.79 CMSDAY
MEAN	0.04	0.00	0.21	0.15	0.22	0.17	0.58	2.43	0.45	0.12	0.01	0.00	0.36 CMS
MAX	0.88	0.02	1.20	0.30	0.40	0.63	4.93	5.76	0.91	0.20	0.07	0.00	5.76 CMS
MIN	0.00	0.00	0.00	0.06	0.11	0.05	0.08	0.98	0.21	0.08	0.00	0.00	0.00 CMS
RUNOFF	0.098	0.002	0.548	0.399	0.589	0.446	1.541	6.299	1.201	0.315	0.035	0.000	11.473 MC

MOMENTARY PEAK 7.00 CMS, AT 1.84 M (A.D), AT 18.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 8.27 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 159.18 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT.

LOCATION — ON RIGHT BANK AT THE ABUTMENT OF 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 44 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

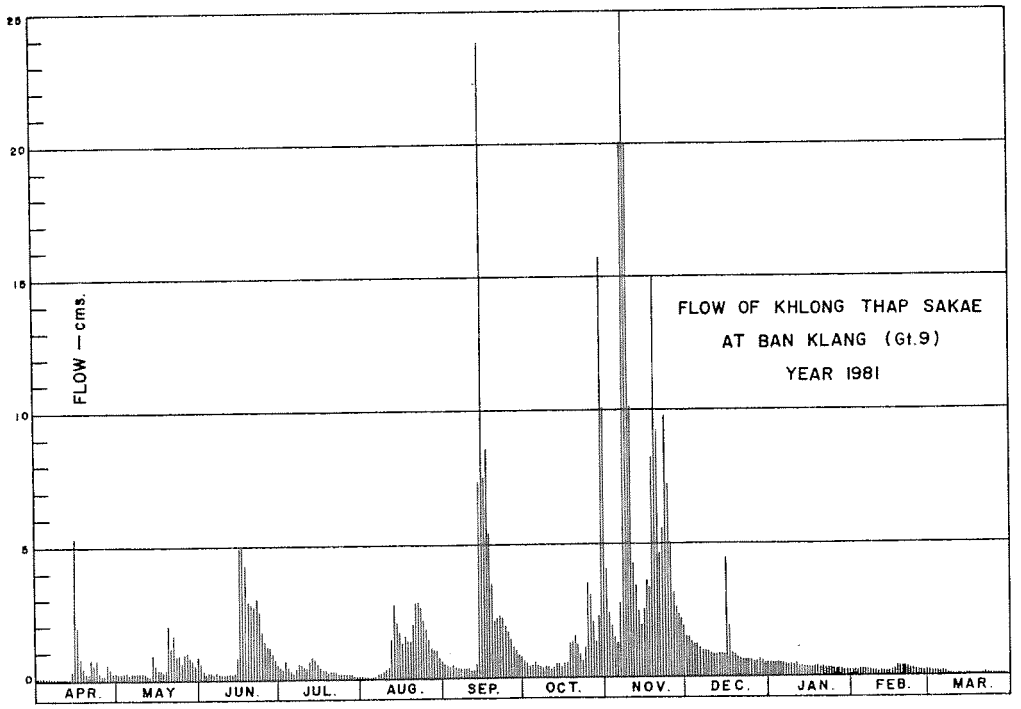
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.01	0.22	0.22	0.02	0.22	0.27	0.89	0.53	0.24	0.12	0.10	
2	0.00	0.01	0.15	0.17	0.02	0.21	0.23	0.69	0.52	0.24	0.12	0.10	
3	0.00	0.01	0.10	0.30	0.02	0.20	0.23	0.59	0.49	0.24	0.12	0.09	
4	0.00	0.01	0.14	0.16	0.02	0.20	0.24	0.52	0.47	0.24	0.12	0.09	
5	0.00	0.01	0.13	0.14	0.03	0.19	0.24	0.46	0.45	0.24	0.12	0.07	
6	0.00	0.01	0.10	0.11	0.06	0.18	0.23	0.79	0.42	0.22	0.12	0.06	
7	0.00	0.01	0.12	0.17	0.09	0.17	0.21	1.98	0.40	0.21	0.11	0.06	
8	0.00	0.01	0.11	0.29	0.12	0.16	0.19	3.04	0.40	0.21	0.10	0.05	
9	0.00	0.01	0.08	0.22	0.15	0.15	0.21	2.23	0.39	0.21	0.10	0.04	
10	0.00	0.01	0.08	0.20	0.17	0.16	0.17	1.45	0.37	0.20	0.10	0.02	
11	0.00	0.01	0.09	0.18	0.20	0.16	0.16	0.98	0.37	0.20	0.10	0.02	
12	0.00	0.07	0.10	0.28	0.58	0.14	0.21	0.80	0.37	0.19	0.10	0.02	
13	0.00	0.08	0.08	0.37	0.77	0.30	0.26	0.68	0.37	0.19	0.10	0.02	
14	0.00	0.40	0.11	0.30	0.64	1.38	0.23	0.63	0.36	0.18	0.10	0.02	
15	1.12	0.22	0.44	0.27	0.58	2.72	0.21	0.82	0.37	0.18	0.12	0.02	
16	0.43	0.19	1.08	0.21	0.49	1.36	0.27	0.90	1.01	0.18	0.12	0.02	
17	0.30	0.18	1.08	0.15	0.55	1.47	0.26	0.88	0.41	0.18	0.18	0.02	
18	0.16	0.13	0.94	0.16	0.50	1.02	0.51	1.51	0.36	0.18	0.19	0.02	
19	0.10	0.20	0.79	0.10	0.50	0.81	0.49	2.05	0.33	0.18	0.18	0.02	
20	0.11	0.64	0.77	0.13	0.69	0.65	0.54	1.43	0.31	0.17	0.16	0.01	
21	0.36	0.45	0.75	0.13	0.78	0.69	0.42	1.04	0.29	0.17	0.16	0.01	
22	0.24	0.57	0.82	0.13	0.78	0.69	0.35	1.25	0.28	0.16	0.16	0.01	
23	0.34	0.36	0.73	0.10	0.76	0.65	0.30	1.59	0.28	0.15	0.16	0.01	
24	0.12	0.38	0.59	0.08	0.64	0.63	0.51	1.24	0.28	0.15	0.14	0.01	
25	0.07	0.29	0.52	0.07	0.61	0.58	0.89	1.08	0.26	0.15	0.11	0.01	
26	0.05	0.41	0.46	0.06	0.50	0.51	0.80	0.84	0.25	0.14	0.10	0.01	
27	0.03	0.39	0.47	0.06	0.47	0.44	0.55	0.72	0.27	0.14	0.10	0.00	
28	0.02	0.32	0.40	0.05	0.42	0.41	0.49	0.70	0.26	0.14	0.10	0.00	
29	0.01	0.30	0.37	0.04	0.40	0.35	0.83	0.66	0.26	0.13		0.00	
30	0.01	0.22	0.27	0.03	0.34	0.30	2.11	0.59	0.25	0.13		0.00	
31		0.36		0.02	0.26		1.54		0.25	0.12		0.00	
MEAN	0.12	0.20	0.40	0.16	0.39	0.57	0.46	1.10	0.38	0.18	0.13	0.03	
MAX	1.12	0.64	1.08	0.37	0.78	2.72	2.11	3.04	1.01	0.24	0.19	0.10	3.04
MIN	0.00	0.01	0.08	0.02	0.02	0.14	0.16	0.46	0.25	0.12	0.10	0.00	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.30 M (A.D), AT 15.00 HOURS, ON NOV 8, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.03 M (A.D)

LEFT BANK ELEVATION — 5.12 M (A.D)

RIGHT BANK ELEVATION — 5.12 M (A.D), DRAINAGE AREA 120 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.02	0.45	0.45	0.04	0.45	0.57	3.53	1.48	0.50	0.24	0.20	
2	0.00	0.02	0.30	0.34	0.04	0.42	0.47	2.29	1.44	0.50	0.24	0.20	
3	0.00	0.02	0.20	0.65	0.04	0.40	0.47	1.75	1.31	0.50	0.24	0.18	
4	0.00	0.02	0.28	0.32	0.04	0.40	0.50	1.44	1.23	0.50	0.24	0.18	
5	0.00	0.02	0.26	0.28	0.06	0.38	0.50	1.19	1.15	0.50	0.24	0.14	
6	0.00	0.02	0.20	0.22	0.12	0.36	0.47	2.89	1.03	0.45	0.24	0.12	
7	0.00	0.02	0.24	0.34	0.18	0.34	0.42	14.16	0.95	0.42	0.22	0.12	
8	0.00	0.02	0.22	0.62	0.24	0.32	0.38	28.28	0.95	0.42	0.20	0.10	
9	0.00	0.02	0.16	0.45	0.30	0.30	0.42	17.19	0.92	0.42	0.20	0.08	
10	0.00	0.02	0.16	0.40	0.34	0.32	0.34	8.35	0.86	0.40	0.20	0.04	
11	0.00	0.02	0.18	0.36	0.40	0.32	0.32	4.20	0.86	0.40	0.20	0.04	
12	0.00	0.14	0.20	0.60	1.71	0.28	0.42	2.95	0.86	0.38	0.20	0.04	
13	0.00	0.16	0.16	0.86	2.77	0.65	0.55	2.24	0.86	0.38	0.20	0.04	
14	0.00	0.95	0.22	0.65	2.02	7.66	0.47	1.97	0.83	0.36	0.20	0.04	
15	5.32	0.45	1.11	0.57	1.71	23.73	0.42	3.08	0.86	0.36	0.24	0.04	
16	1.07	0.38	4.99	0.42	1.31	7.47	0.57	3.60	4.43	0.36	0.24	0.04	
17	0.65	0.36	4.99	0.30	1.57	8.55	0.55	3.47	0.99	0.36	0.36	0.04	
18	0.32	0.26	3.90	0.32	1.35	4.51	1.39	8.95	0.83	0.36	0.38	0.04	
19	0.20	0.40	2.89	0.20	1.35	3.01	1.31	15.00	0.74	0.36	0.36	0.04	
20	0.22	2.02	2.77	0.26	2.29	2.07	1.53	8.15	0.68	0.34	0.32	0.02	
21	0.83	1.15	2.65	0.26	2.83	2.29	1.03	4.67	0.62	0.34	0.32	0.02	
22	0.50	1.66	3.08	0.26	2.83	2.29	0.80	6.45	0.60	0.32	0.32	0.02	
23	0.77	0.83	2.53	0.20	2.71	2.07	0.65	9.75	0.60	0.30	0.32	0.02	
24	0.24	0.89	1.75	0.16	2.02	1.97	1.39	6.36	0.60	0.30	0.28	0.02	
25	0.14	0.62	1.44	0.14	1.85	1.71	3.53	4.99	0.55	0.30	0.22	0.02	
26	0.10	0.99	1.19	0.12	1.35	1.39	2.95	3.21	0.52	0.28	0.20	0.02	
27	0.06	0.92	1.23	0.12	1.23	1.11	1.57	2.47	0.57	0.28	0.20	0.00	
28	0.04	0.71	0.95	0.10	1.03	0.99	1.31	2.35	0.55	0.28	0.20	0.00	
29	0.02	0.65	0.86	0.08	0.95	0.80	3.14	2.13	0.55	0.26		0.00	
30	0.02	0.45	0.57	0.06	0.77	0.65	15.72	1.75	0.52	0.26		0.00	
31		0.83		0.04	0.55		9.25		0.52	0.24		0.00	
TOTAL	10.50	15.04	40.13	10.15	36.00	77.21	53.41	178.81	29.46	11.43	7.02	1.86	471.02 CMSDAY
MEAN	0.35	0.49	1.34	0.33	1.16	2.57	1.72	5.96	0.95	0.37	0.25	0.06	1.29 CMS
MAX	5.32	2.02	4.99	0.86	2.83	23.73	15.72	28.28	4.43	0.50	0.38	0.20	28.28 CMS
MIN	0.00	0.02	0.16	0.04	0.04	0.28	0.32	1.19	0.52	0.24	0.20	0.00	0.00 CMS
RUNOFF	0.907	1.299	3.467	0.877	3.110	6.671	4.615	15.449	2.545	0.988	0.607	0.161	40.696 MCM

MOMENTARY PEAK 32.05 CMS, AT 3.30 M (A.D), AT 15.00 HOURS, ON NOV 8, 1981

RUNOFF YIELD 10.75 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 267.08 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 KILOMETER MARKER 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 AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

LOCATION — ON LEFT BANK AT THE ABUTMENT OF BRIDGE.

ELEVATION — +5.522 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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 41 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

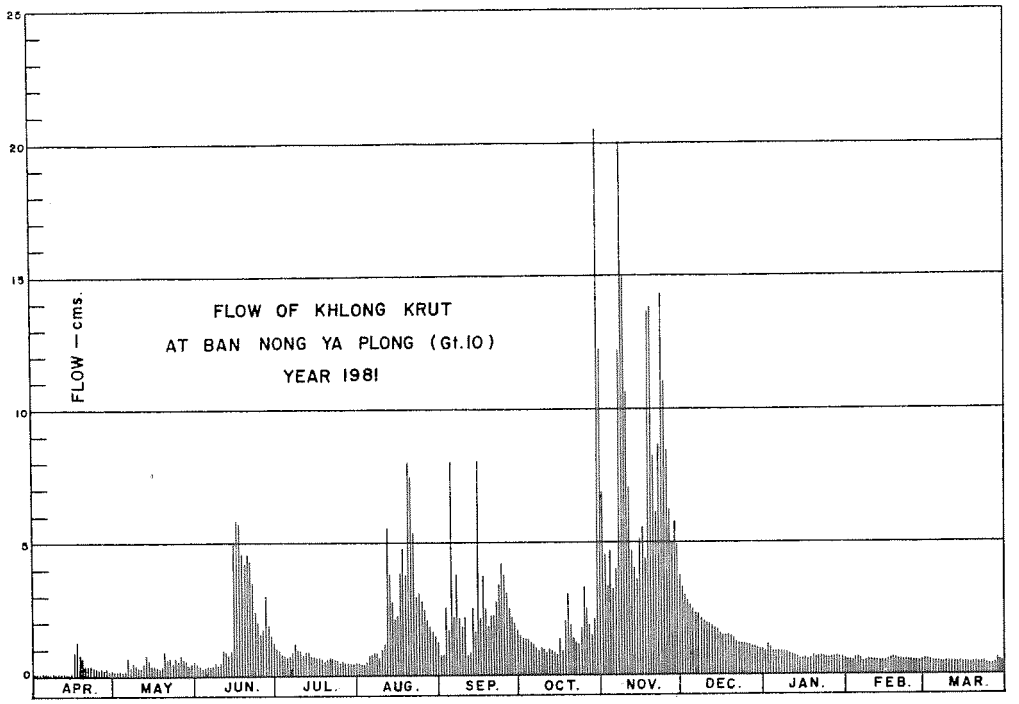
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.11	0.22	0.52	0.25	0.42	0.63	1.31	1.00	0.46	0.31	0.33	
2	0.00	0.10	0.20	0.48	0.25	0.42	0.60	1.13	0.94	0.54	0.32	0.32	
3	0.00	0.10	0.19	0.45	0.25	0.87	0.59	1.00	0.90	0.47	0.34	0.30	
4	0.00	0.11	0.20	0.41	0.30	0.65	0.59	1.18	0.87	0.46	0.38	0.29	
5	0.00	0.11	0.20	0.40	0.42	1.56	0.57	0.99	0.85	0.46	0.35	0.28	
6	0.00	0.37	0.21	0.43	0.43	0.79	0.54	1.13	0.82	0.45	0.32	0.28	
7	0.00	0.23	0.23	0.46	0.46	1.07	0.51	1.74	0.79	0.45	0.29	0.27	
8	0.00	0.28	0.30	0.58	0.42	0.80	0.49	2.34	0.77	0.45	0.31	0.28	
9	0.00	0.24	0.24	0.49	0.39	0.72	0.52	2.09	0.76	0.44	0.31	0.28	
10	0.00	0.20	0.29	0.46	0.51	0.80	0.46	1.62	0.74	0.43	0.31	0.28	
11	0.00	0.20	0.48	0.43	0.58	0.42	0.46	1.31	0.73	0.40	0.30	0.28	
12	0.00	0.29	0.46	0.47	1.30	0.42	0.49	1.18	0.72	0.36	0.30	0.28	
13	0.00	0.43	0.42	0.46	1.08	0.87	0.47	1.09	0.69	0.35	0.30	0.27	
14	0.00	0.36	0.47	0.40	0.90	0.65	0.44	1.03	0.68	0.35	0.30	0.29	
15	0.00	0.24	1.26	0.38	0.79	1.56	0.43	1.26	0.66	0.35	0.30	0.27	
16	0.44	0.22	1.34	0.38	0.83	0.79	0.60	1.31	0.63	0.35	0.32	0.27	
17	0.60	0.20	1.32	0.37	1.17	1.07	0.46	1.15	0.63	0.33	0.38	0.27	
18	0.43	0.18	1.19	0.35	1.20	0.80	0.81	1.99	0.63	0.37	0.37	0.27	
19	0.30	0.23	1.13	0.31	1.07	0.72	0.94	2.00	0.61	0.39	0.34	0.26	
20	0.22	0.47	1.18	0.35	1.56	0.80	0.72	1.57	0.60	0.39	0.33	0.26	
21	0.24	0.37	1.14	0.38	1.50	0.82	0.60	1.37	0.57	0.38	0.33	0.26	
22	0.23	0.39	0.99	0.36	1.23	0.93	0.56	1.79	0.55	0.37	0.33	0.26	
23	0.20	0.29	0.86	0.32	0.94	1.01	0.53	2.03	0.55	0.37	0.32	0.25	
24	0.18	0.38	0.73	0.31	0.96	1.13	0.75	1.80	0.54	0.36	0.32	0.25	
25	0.18	0.33	0.64	0.28	0.92	1.06	1.00	1.54	0.53	0.36	0.31	0.24	
26	0.17	0.42	0.69	0.31	0.83	0.94	0.84	1.36	0.53	0.36	0.31	0.23	
27	0.16	0.34	0.96	0.27	0.78	0.84	0.72	1.23	0.52	0.36	0.31	0.34	
28	0.15	0.30	0.75	0.26	0.72	0.79	0.62	1.33	0.50	0.35	0.31	0.34	
29	0.13	0.24	0.64	0.25	0.67	0.74	0.79	1.16	0.49	0.35		0.30	
30	0.12	0.27	0.58	0.25	0.63	0.68	2.36	1.06	0.48	0.35		0.30	
31		0.29		0.25	0.61		1.77		0.48	0.30		0.42	
MEAN	0.12	0.27	0.65	0.38	0.77	0.84	0.71	1.44	0.67	0.39	0.32	0.28	
MAX	0.60	0.47	1.34	0.58	1.56	1.56	2.36	2.34	1.00	0.54	0.38	0.42	2.36
MIN	0.00	0.10	0.19	0.25	0.25	0.42	0.43	0.99	0.48	0.30	0.29	0.23	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.80 M (A.D), AT 18.00 HOURS, ON NOV 18, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.00 M (A.D)

LEFT BANK ELEVATION — 5.25 M (A.D)

RIGHT BANK ELEVATION — 5.22 M (A.D), DRAINAGE AREA — 112 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.12	0.34	1.07	0.40	0.76	1.47	5.63	3.35	0.88	0.52	0.56	
2	0.00	0.10	0.30	0.94	0.40	0.76	1.35	4.22	2.99	1.14	0.54	0.54	
3	0.00	0.10	0.28	0.85	0.40	2.58	1.31	3.35	2.75	0.91	0.58	0.50	
4	0.00	0.12	0.30	0.73	0.50	1.55	1.31	4.60	2.58	0.88	0.66	0.48	
5	0.00	0.12	0.30	0.70	0.76	8.03	1.24	3.29	2.47	0.88	0.60	0.46	
6	0.00	0.64	0.32	0.79	0.79	2.15	1.14	4.22	2.31	0.85	0.54	0.46	
7	0.00	0.36	0.36	0.88	0.88	3.80	1.03	10.05	2.15	0.85	0.48	0.44	
8	0.00	0.46	0.50	1.28	0.76	2.20	0.97	20.00	2.06	0.85	0.52	0.46	
9	0.00	0.38	0.38	0.97	0.68	1.84	1.07	15.33	2.02	0.82	0.52	0.46	
10	0.00	0.30	0.48	0.88	1.03	2.20	0.88	8.67	1.93	0.79	0.52	0.46	
11	0.00	0.30	0.94	0.79	1.28	0.76	0.88	5.63	1.88	0.70	0.50	0.46	
12	0.00	0.48	0.88	0.91	5.55	0.76	0.97	4.60	1.84	0.62	0.50	0.46	
13	0.00	0.79	0.76	0.88	3.87	2.58	0.91	3.93	1.71	0.60	0.50	0.44	
14	0.00	0.62	0.91	0.70	2.75	1.55	0.82	3.54	1.67	0.60	0.50	0.48	
15	0.00	0.38	5.23	0.66	2.15	8.03	0.79	5.23	1.59	0.60	0.50	0.44	
16	0.82	0.34	5.89	0.66	2.36	2.15	1.35	5.63	1.47	0.60	0.54	0.44	
17	1.35	0.30	5.72	0.64	4.52	3.80	0.88	4.37	1.47	0.56	0.66	0.44	
18	0.79	0.26	4.67	0.60	4.75	2.20	2.25	13.64	1.47	0.64	0.64	0.44	
19	0.50	0.36	4.22	0.52	3.80	1.84	2.99	13.80	1.39	0.68	0.58	0.42	
20	0.34	0.91	4.60	0.60	8.03	2.20	1.84	8.13	1.35	0.68	0.56	0.42	
21	0.38	0.64	4.30	0.66	7.40	2.31	1.35	6.14	1.24	0.66	0.56	0.42	
22	0.36	0.68	3.29	0.62	4.99	2.93	1.21	10.67	1.17	0.64	0.56	0.42	
23	0.30	0.48	2.53	0.54	2.99	3.41	1.10	14.31	1.17	0.64	0.54	0.40	
24	0.26	0.66	1.88	0.52	3.11	4.22	1.97	10.80	1.14	0.62	0.54	0.40	
25	0.26	0.56	1.51	0.46	2.87	3.74	3.35	7.82	1.10	0.62	0.52	0.38	
26	0.24	0.76	1.71	0.52	2.36	2.99	2.42	6.06	1.10	0.62	0.52	0.36	
27	0.22	0.58	3.11	0.44	2.11	2.42	1.84	4.99	1.07	0.62	0.52	0.58	
28	0.20	0.50	1.97	0.42	1.84	2.15	1.43	5.80	1.00	0.60	0.52	0.58	
29	0.16	0.38	1.51	0.40	1.63	1.93	2.15	4.45	0.97	0.60		0.50	
30	0.14	0.44	1.28	0.40	1.47	1.67	20.40	3.74	0.94	0.60		0.50	
31		0.48		0.40	1.39		10.42		0.94	0.50		0.76	
TOTAL	6.32	13.60	60.47	21.43	77.82	79.51	73.09	222.64	52.29	21.85	15.24	14.56	658.82 CMSDAY
MEAN	0.21	0.44	2.02	0.69	2.51	2.65	2.36	7.42	1.69	0.70	0.54	0.47	1.80 CMS
MAX	1.35	0.91	5.89	1.28	8.03	8.03	20.40	20.00	3.35	1.14	0.66	0.76	20.40 CMS
MIN	0.00	0.10	0.28	0.40	0.40	0.76	0.79	3.29	0.94	0.50	0.48	0.36	0.00 CMS
RUNOFF	0.546	1.175	5.225	1.852	6.724	6.870	6.315	19.236	4.518	1.888	1.317	1.258	56.922 MCM

MOMENTARY PEAK 29.90 CMS, AT 2.80 M (A.D), AT 18.00 HOURS, ON NOV 18, 1981

RUNOFF YIELD 16.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 266.96 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 KILOMETER MARKER 423, BAN CHANG LAEK, TAMBON PAK PHRAEK, AMPHOE BANG SAPHAN NOI, PRACHUAP KHIRI KHAN.

DRAINAGE AREA — 58 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M.-HIGHWAYS DEPARTMENT

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 — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 37 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

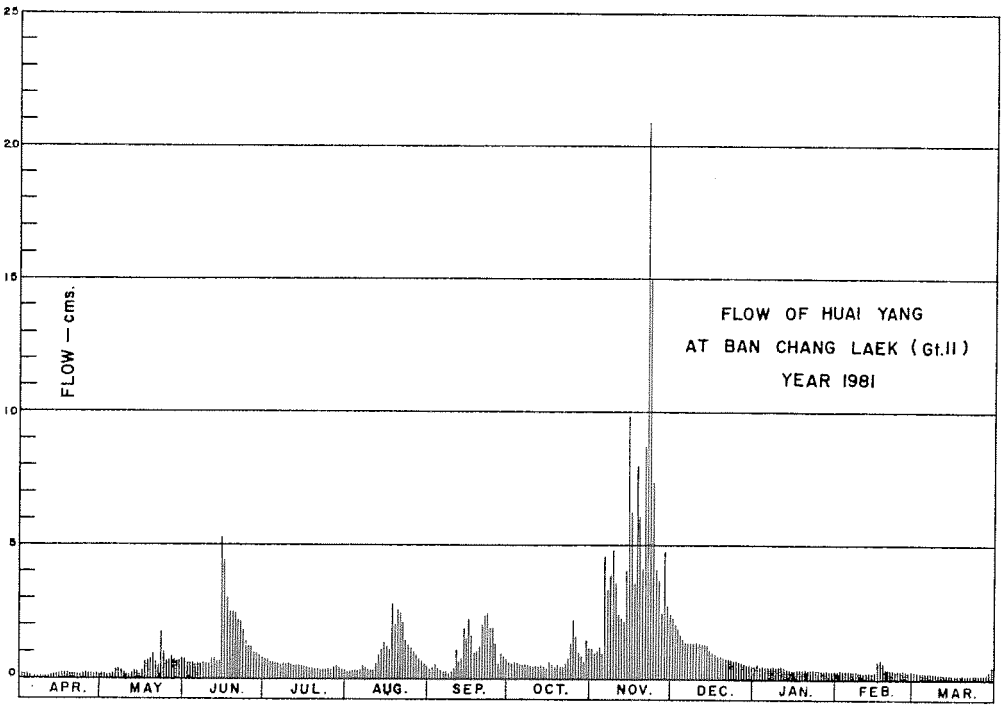
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.33	0.35	0.59	0.64	0.45	0.47	0.60	0.73	0.98	0.56	0.47	0.46	
2	0.33	0.35	0.56	0.60	0.45	0.50	0.60	0.69	0.94	0.55	0.47	0.45	
3	0.33	0.35	0.55	0.60	0.47	0.55	0.60	0.71	0.90	0.54	0.47	0.45	
4	0.32	0.35	0.56	0.59	0.47	0.50	0.59	0.76	0.86	0.54	0.46	0.44	
5	0.32	0.38	0.55	0.58	0.47	0.45	0.57	0.70	0.83	0.53	0.46	0.44	
6	0.31	0.49	0.55	0.57	0.48	0.43	0.56	1.25	0.80	0.53	0.46	0.44	
7	0.31	0.47	0.55	0.56	0.53	0.40	0.55	1.12	0.80	0.52	0.46	0.43	
8	0.31	0.44	0.56	0.55	0.47	0.40	0.55	1.17	0.80	0.52	0.46	0.43	
9	0.30	0.40	0.56	0.55	0.45	0.44	0.54	1.27	0.80	0.51	0.46	0.42	
10	0.30	0.39	0.56	0.55	0.45	0.54	0.53	1.12	0.80	0.51	0.45	0.41	
11	0.31	0.39	0.64	0.55	0.47	0.74	0.53	1.00	0.79	0.51	0.45	0.41	
12	0.35	0.41	0.63	0.54	0.58	0.60	0.54	0.98	0.79	0.51	0.45	0.40	
13	0.36	0.47	0.60	0.53	0.65	0.64	0.54	0.95	0.78	0.50	0.45	0.39	
14	0.35	0.41	0.61	0.53	0.74	0.92	0.54	1.25	0.76	0.49	0.45	0.39	
15	0.37	0.39	1.32	0.52	0.79	0.83	0.52	1.64	0.73	0.49	0.45	0.39	
16	0.38	0.48	1.21	0.52	0.75	0.98	0.58	1.38	0.69	0.49	0.63	0.39	
17	0.40	0.60	1.08	0.51	0.73	0.75	0.55	1.14	0.68	0.49	0.63	0.39	
18	0.39	0.62	1.00	0.50	1.04	0.70	0.54	1.52	0.66	0.49	0.56	0.39	
19	0.38	0.62	1.00	0.50	0.92	0.72	0.55	1.38	0.65	0.49	0.50	0.39	
20	0.38	0.69	1.00	0.50	1.02	0.87	0.54	1.20	0.66	0.49	0.49	0.39	
21	0.39	0.57	0.95	0.50	1.00	0.96	0.52	1.64	0.64	0.49	0.49	0.39	
22	0.39	0.55	0.94	0.50	0.93	1.00	0.56	2.19	0.64	0.49	0.49	0.39	
23	0.38	0.89	0.88	0.50	0.80	1.00	0.65	1.60	0.63	0.48	0.49	0.38	
24	0.38	0.68	0.79	0.49	0.76	0.90	0.80	1.38	0.61	0.48	0.48	0.38	
25	0.38	0.60	0.75	0.49	0.73	0.90	0.97	1.19	0.61	0.48	0.48	0.38	
26	0.37	0.62	0.74	0.48	0.68	0.75	0.80	1.15	0.60	0.47	0.48	0.38	
27	0.37	0.64	0.70	0.49	0.65	0.55	0.70	1.00	0.59	0.47	0.47	0.39	
28	0.37	0.60	0.68	0.54	0.61	0.69	0.65	1.27	0.58	0.47	0.47	0.45	
29	0.36	0.60	0.67	0.51	0.60	0.67	0.60	1.07	0.58	0.47		0.50	
30	0.36	0.61	0.65	0.47	0.57	0.64	0.83	1.00	0.58	0.47		0.58	
31		0.63		0.46	0.52		0.74		0.57	0.47		0.58	
MEAN	0.35	0.52	0.75	0.53	0.65	0.68	0.61	1.18	0.72	0.50	0.48	0.42	
MAX	0.40	0.89	1.32	0.64	1.04	1.00	0.97	2.19	0.98	0.56	0.63	0.58	2.19
MIN	0.30	0.35	0.55	0.46	0.45	0.40	0.52	0.69	0.57	0.47	0.45	0.38	0.30

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.43 M (A.D), AT 18.00 HOURS, ON NOV 21, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.08 M (A.D)

LEFT BANK ELEVATION — 8.18 M (A.D)

RIGHT BANK ELEVATION — 5.70 M (A.D), DRAINAGE AREA — 58 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.12	0.60	0.77	0.28	0.32	0.63	1.09	2.33	0.53	0.32	0.30	
2	0.10	0.12	0.53	0.63	0.28	0.37	0.63	0.94	2.09	0.50	0.32	0.28	
3	0.10	0.12	0.50	0.63	0.32	0.50	0.63	1.02	1.85	0.47	0.32	0.28	
4	0.08	0.12	0.53	0.60	0.32	0.37	0.60	1.20	1.65	0.47	0.30	0.27	
5	0.08	0.17	0.50	0.58	0.32	0.28	0.55	0.98	1.50	0.45	0.30	0.27	
6	0.06	0.35	0.50	0.55	0.34	0.25	0.53	4.62	1.35	0.45	0.30	0.27	
7	0.06	0.32	0.50	0.53	0.45	0.20	0.50	3.38	1.35	0.42	0.30	0.25	
8	0.06	0.27	0.53	0.50	0.32	0.20	0.50	3.83	1.35	0.42	0.30	0.25	
9	0.05	0.20	0.53	0.50	0.28	0.27	0.47	4.83	1.35	0.40	0.30	0.23	
10	0.05	0.18	0.53	0.50	0.28	0.47	0.45	3.38	1.35	0.40	0.28	0.22	
11	0.06	0.18	0.77	0.50	0.32	1.13	0.45	2.45	1.31	0.40	0.28	0.22	
12	0.12	0.22	0.74	0.47	0.58	0.63	0.47	2.33	1.31	0.40	0.28	0.20	
13	0.14	0.32	0.63	0.45	0.81	0.77	0.47	2.15	1.28	0.37	0.28	0.18	
14	0.12	0.22	0.66	0.45	1.13	1.97	0.47	4.62	1.20	0.35	0.28	0.18	
15	0.15	0.18	5.39	0.42	1.31	1.50	0.42	9.88	1.09	0.35	0.28	0.18	
16	0.17	0.34	4.20	0.42	1.16	2.33	0.58	6.11	0.94	0.35	0.74	0.18	
17	0.20	0.63	3.05	0.40	1.09	1.16	0.50	3.56	0.91	0.35	0.74	0.18	
18	0.18	0.70	2.45	0.37	2.75	0.98	0.47	8.00	0.84	0.35	0.53	0.18	
19	0.17	0.70	2.45	0.37	1.97	1.05	0.50	6.11	0.81	0.35	0.37	0.18	
20	0.17	0.94	2.45	0.37	2.60	1.70	0.47	4.10	0.84	0.35	0.35	0.18	
21	0.18	0.55	2.15	0.37	2.45	2.21	0.42	9.88	0.77	0.35	0.35	0.18	
22	0.18	0.50	2.09	0.37	2.03	2.45	0.53	20.86	0.77	0.35	0.35	0.18	
23	0.17	1.80	1.75	0.37	1.35	2.45	0.81	9.20	0.74	0.34	0.35	0.17	
24	0.17	0.91	1.31	0.35	1.20	1.85	1.35	6.11	0.66	0.34	0.34	0.17	
25	0.17	0.63	1.16	0.35	1.09	1.85	2.27	4.01	0.66	0.34	0.34	0.17	
26	0.15	0.70	1.13	0.34	0.91	1.16	1.35	3.65	0.63	0.32	0.34	0.17	
27	0.15	0.77	0.98	0.35	0.81	0.50	0.98	2.45	0.60	0.32	0.32	0.18	
28	0.15	0.63	0.91	0.47	0.66	0.94	0.81	4.83	0.58	0.32	0.32	0.28	
29	0.14	0.63	0.87	0.40	0.63	0.87	0.63	2.97	0.58	0.32		0.37	
30	0.14	0.66	0.81	0.32	0.55	0.77	1.50	2.45	0.58	0.32		0.58	
31		0.74		0.30	0.42		1.13		0.55	0.32		0.58	
TOTAL	3.82	14.92	41.20	14.00	29.01	31.50	22.07	140.99	33.82	11.77	9.88	7.51	360.49 CMSDAY
MEAN	0.13	0.48	1.37	0.45	0.94	1.05	0.71	4.70	1.09	0.38	0.35	0.24	0.99 CMS
MAX	0.20	1.80	5.39	0.77	2.75	2.45	2.27	20.86	2.33	0.53	0.74	0.58	20.86 CMS
MIN	0.05	0.12	0.50	0.30	0.28	0.20	0.42	0.94	0.55	0.32	0.28	0.17	0.05 CMS
RUNOFF	0.330	1.289	3.560	1.210	2.506	2.722	1.907	12.182	2.922	1.017	0.854	0.649	31.146 MCM

MOMENTARY PEAK 27.30 CMS, AT 2.43 M (A.D), AT 18.00 HOURS, ON NOV 21, 1981

RUNOFF YIELD 17.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 470.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

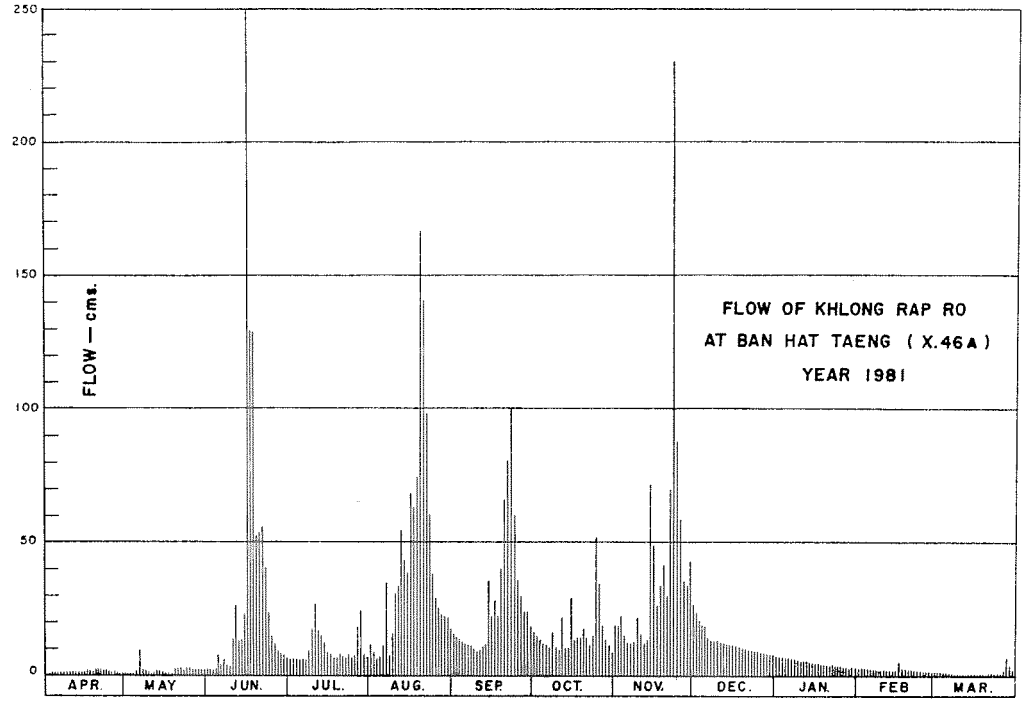
KHLONG RAB RO AT BAN HAT TAENG, CHUMPHON (X.46A)

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 AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 110 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.84	0.85	0.96	1.25	1.43	1.55	1.56	1.62	1.76	1.25	1.09	0.99	
2	0.84	0.84	0.92	1.25	1.32	1.51	1.53	1.59	1.69	1.25	1.09	0.99	
3	0.84	0.83	0.91	1.23	1.27	1.49	1.54	1.66	1.64	1.24	1.09	0.98	
4	0.84	0.83	1.29	1.21	1.23	1.46	1.48	1.56	1.60	1.23	1.09	0.98	
5	0.85	0.98	1.09	1.20	1.31	1.43	1.45	1.50	1.59	1.23	1.08	0.97	
6	0.87	1.34	1.05	1.24	1.46	1.41	1.43	1.46	1.56	1.22	1.08	0.97	
7	0.86	1.05	1.21	1.24	1.92	1.41	1.41	1.45	1.52	1.22	1.07	0.99	
8	0.85	1.01	1.09	1.24	1.27	1.41	1.39	1.45	1.49	1.21	1.07	0.98	
9	0.84	0.96	1.08	1.23	1.50	1.37	1.55	1.51	1.47	1.21	1.06	0.97	
10	0.83	0.91	1.42	1.58	1.82	1.36	1.39	1.67	1.46	1.21	1.06	0.96	
11	0.83	0.82	1.76	1.78	1.90	1.34	1.37	1.50	1.45	1.20	1.05	0.96	
12	0.83	0.89	1.49	1.57	2.22	1.41	1.65	1.42	1.44	1.19	1.05	0.95	
13	0.84	0.88	1.46	1.55	2.17	1.43	1.38	1.47	1.43	1.18	1.04	0.95	
14	0.84	0.91	1.69	1.46	1.98	1.92	1.38	2.06	1.41	1.18	1.04	0.94	
15	0.89	0.91	4.09	1.38	2.08	1.76	1.81	2.45	1.40	1.17	1.03	0.94	
16	0.90	0.90	3.07	1.32	2.40	1.68	1.66	1.87	1.39	1.17	1.08	0.94	
17	0.96	0.91	3.07	1.30	2.34	1.81	1.48	1.77	1.37	1.16	1.21	0.94	
18	0.98	0.93	2.51	1.26	2.50	1.69	1.50	1.84	1.37	1.16	1.12	0.93	
19	0.91	1.06	2.20	1.24	2.64	2.02	1.52	2.03	1.35	1.17	1.07	0.93	
20	1.03	1.05	2.26	1.26	3.41	2.26	1.56	1.78	1.35	1.16	1.05	0.92	
21	1.01	1.10	2.31	1.30	3.05	2.43	1.59	1.89	1.35	1.15	1.04	0.92	
22	0.94	1.06	2.12	1.25	2.57	2.63	1.44	2.47	1.33	1.14	1.03	0.92	
23	0.96	1.04	1.80	1.26	2.38	2.78	1.40	3.92	1.32	1.13	1.02	0.91	
24	0.90	1.13	1.62	1.26	2.02	2.34	1.56	2.53	1.31	1.13	1.02	0.94	
25	0.87	1.05	1.50	1.23	1.84	2.07	2.20	2.28	1.31	1.13	1.01	0.96	
26	0.89	1.01	1.43	1.27	1.78	1.89	1.88	2.29	1.29	1.12	1.01	0.98	
27	0.87	0.96	1.39	1.59	1.72	1.80	1.64	2.02	1.29	1.12	1.00	1.17	
28	0.86	0.95	1.33	1.72	1.69	1.73	1.55	1.93	1.28	1.11	0.99	1.28	
29	0.85	0.94	1.29	1.42	1.69	1.73	1.42	2.04	1.28	1.11		1.07	
30	0.84	0.93	1.24	1.31	1.69	1.60	1.40	1.85	1.27	1.11		0.99	
31		0.93		1.28	1.60		1.33		1.26	1.10		0.94	
MEAN	0.88	0.97	1.69	1.34	1.94	1.76	1.53	1.90	1.42	1.17	1.06	0.98	
MAX	1.03	1.34	4.09	1.78	3.41	2.78	2.20	3.92	1.76	1.25	1.21	1.28	4.09
MIN	0.83	0.82	0.91	1.20	1.23	1.34	1.33	1.42	1.26	1.10	0.99	0.91	0.82

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.49 M (A.D), AT 16.00 HOURS, ON JUN 15, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.50	1.60	6.75	11.90	16.33	16.80	19.60	26.13	6.75	2.90	1.90	
2	0.40	0.40	1.20	6.75	8.60	14.47	15.40	18.20	22.87	6.75	2.90	1.90	
3	0.40	0.30	1.10	6.25	7.25	13.70	15.87	21.47	20.53	6.50	2.90	1.80	
4	0.40	0.30	7.75	5.75	6.25	12.80	13.40	16.80	18.67	6.25	2.90	1.80	
5	0.50	1.80	2.90	5.50	8.30	11.90	12.50	14.00	18.20	6.25	2.80	1.70	
6	0.70	9.20	2.50	6.50	12.80	11.30	11.90	12.80	16.80	6.00	2.80	1.70	
7	0.60	2.50	5.75	6.50	34.30	11.30	11.30	12.50	14.93	6.00	2.70	1.90	
8	0.50	2.10	2.90	6.50	7.25	11.30	10.70	12.50	13.70	5.75	2.70	1.80	
9	0.40	1.60	2.80	6.25	14.00	10.10	16.33	14.47	13.10	5.75	2.60	1.70	
10	0.30	1.10	11.60	17.73	29.00	9.80	10.70	21.93	12.80	5.75	2.60	1.60	
11	0.30	0.20	26.13	27.07	33.00	9.20	10.10	14.00	12.50	5.50	2.50	1.60	
12	0.30	0.90	13.70	17.27	54.00	11.30	21.00	11.60	12.20	5.25	2.50	1.50	
13	0.40	0.80	12.80	16.33	50.55	11.90	10.40	13.10	11.90	5.00	2.40	1.50	
14	0.40	1.10	22.87	12.80	38.20	34.30	10.40	43.40	11.30	5.00	2.40	1.40	
15	0.90	1.10	252.70	10.40	44.70	26.13	28.50	72.00	11.00	4.75	2.30	1.40	
16	1.00	1.00	129.00	8.60	68.00	22.40	21.47	31.50	10.70	4.75	2.80	1.40	
17	1.60	1.10	129.00	8.00	63.20	28.50	13.40	26.60	10.10	4.50	5.75	1.40	
18	1.80	1.30	76.80	7.00	76.00	22.87	14.00	30.00	10.10	4.50	3.50	1.30	
19	1.10	2.60	52.50	6.50	87.40	40.80	14.93	41.45	9.50	4.75	2.70	1.30	
20	2.30	2.50	57.00	7.00	166.20	57.00	16.80	27.07	9.50	4.50	2.50	1.20	
21	2.10	3.00	60.80	8.00	127.00	70.40	18.20	32.50	9.50	4.25	2.40	1.20	
22	1.40	2.60	47.30	6.75	81.60	86.55	12.20	73.60	8.90	4.00	2.30	1.20	
23	1.60	2.40	28.00	7.00	66.40	100.10	11.00	230.60	8.60	3.75	2.20	1.10	
24	1.00	3.75	19.60	7.00	40.80	63.20	16.80	78.40	8.30	3.75	2.20	1.40	
25	0.70	2.50	14.00	6.25	30.00	44.05	52.50	58.50	8.30	3.75	2.10	1.60	
26	0.90	2.10	11.90	7.25	27.07	32.50	32.00	59.25	7.75	3.50	2.10	1.80	
27	0.70	1.60	10.70	18.20	24.27	28.00	20.53	40.80	7.75	3.50	2.00	4.75	
28	0.60	1.50	8.90	24.27	22.87	24.73	16.33	34.95	7.50	3.25	1.90	7.50	
29	0.50	1.40	7.75	11.60	22.87	24.73	11.60	42.10	7.50	3.25		2.70	
30	0.40	1.30	6.50	8.30	22.87	18.67	11.00	30.50	7.25	3.25		1.90	
31		1.30		7.50	18.67		8.90		7.00	3.00		1.40	
TOTAL	24.60	55.85	1028.05	307.57	1305.32	880.33	506.96	1156.19	374.88	149.50	74.35	58.35	5921.94 CMSDAY
MEAN	0.82	1.80	34.27	9.92	42.11	29.34	16.35	38.54	12.09	4.82	2.66	1.88	16.22 CMS
MAX	2.30	9.20	252.70	27.07	166.20	100.10	52.50	230.60	26.13	6.75	5.75	7.50	252.70 CMS
MIN	0.30	0.20	1.10	5.50	6.25	9.20	8.90	11.60	7.00	3.00	1.90	1.10	0.20 CMS
RUNOFF	2.125	4.825	88.823	26.574	112.779	76.060	43.801	99.895	32.390	12.917	6.424	5.041	511.556 MCM

MOMENTARY PEAK 306.60 CMS, AT 4.49 M (A.D), AT 16.00 HOURS, ON JUN 15, 1981

RUNOFF YIELD 26.30 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 496.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

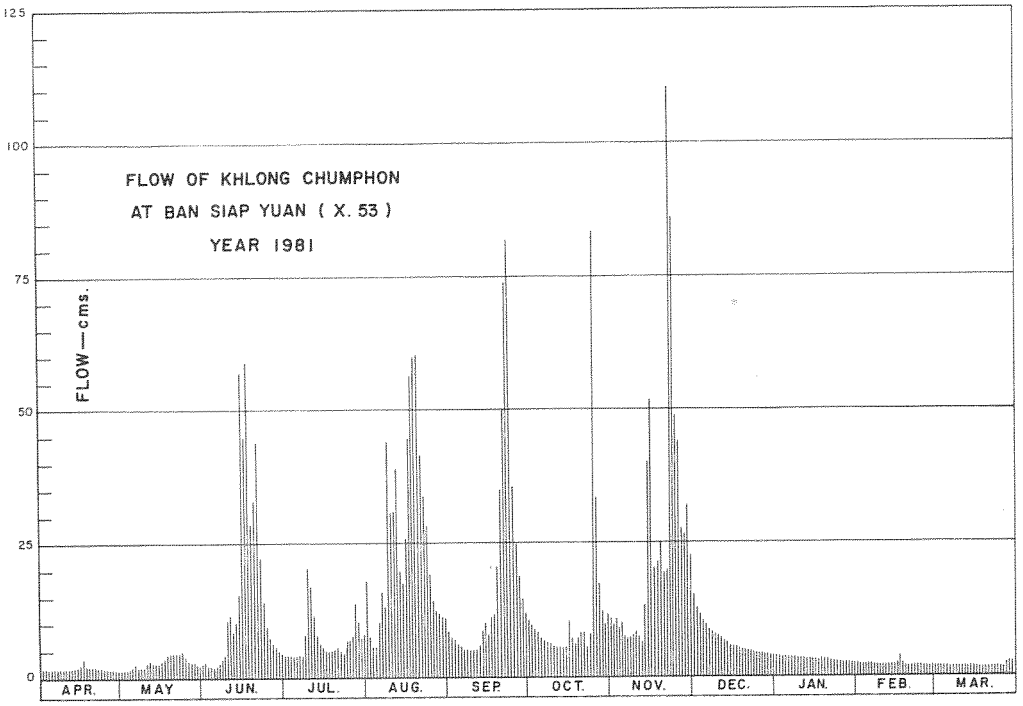
KHLONG CHUMPHON AT BAN SIAP YUAN, CHUMPHON (X.53)

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 AT	+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 TO 1980
RATED BY FLOAT	-
RATED BY CURRENT METER	1973, 1979 TO 1980
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 194 DISCHARGE MEASUREMENTS MADE DURING 1973 AND 1979.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.63	0.63	0.75	0.84	1.19	1.09	1.18	1.15	1.44	0.79	0.71	0.68	
2	0.62	0.62	0.72	0.83	1.05	1.04	1.14	1.20	1.33	0.79	0.71	0.67	
3	0.63	0.62	0.69	0.82	0.98	1.00	1.12	1.11	1.27	0.79	0.71	0.66	
4	0.64	0.63	0.70	0.81	0.94	0.97	1.06	1.15	1.22	0.78	0.71	0.66	
5	0.64	0.68	0.70	0.81	0.93	0.95	1.03	1.09	1.17	0.78	0.71	0.66	
6	0.63	0.71	0.69	0.81	1.19	0.93	1.01	1.04	1.12	0.78	0.70	0.66	
7	0.62	0.67	0.73	0.84	1.38	0.92	0.99	1.02	1.10	0.78	0.70	0.66	
8	0.63	0.70	0.78	0.81	1.32	0.91	0.98	1.03	1.07	0.78	0.70	0.66	
9	0.63	0.69	0.86	1.04	2.22	0.90	0.97	1.12	1.05	0.78	0.70	0.66	
10	0.63	0.70	1.19	1.56	1.91	0.89	0.95	1.08	1.04	0.77	0.69	0.66	
11	0.64	0.76	1.22	1.45	1.89	0.89	0.94	1.03	1.03	0.76	0.69	0.66	
12	0.64	0.77	1.09	1.30	2.09	0.95	0.94	0.99	1.02	0.76	0.70	0.66	
13	0.66	0.72	1.14	1.05	1.60	1.04	0.93	1.28	0.98	0.76	0.69	0.66	
14	0.65	0.72	1.39	1.00	1.48	1.16	0.94	1.97	0.96	0.76	0.69	0.66	
15	0.66	0.74	2.53	0.96	1.47	1.08	0.95	2.41	0.95	0.76	0.69	0.65	
16	0.71	0.74	2.24	0.94	1.74	1.03	1.19	1.76	0.94	0.75	0.80	0.65	
17	0.78	0.77	2.57	0.91	2.51	1.21	1.03	1.54	0.93	0.75	0.74	0.65	
18	0.68	0.84	1.87	0.91	2.52	1.23	0.97	1.61	0.91	0.75	0.72	0.64	
19	0.67	0.88	1.79	0.91	2.62	1.59	1.02	1.71	0.90	0.76	0.70	0.63	
20	0.67	0.88	1.99	0.91	2.61	1.88	1.09	1.51	0.90	0.76	0.69	0.63	
21	0.67	0.82	2.22	0.92	2.19	2.18	1.08	1.55	0.88	0.74	0.69	0.63	
22	0.70	0.83	1.68	0.88	2.02	2.86	0.97	2.59	0.87	0.74	0.69	0.63	
23	0.68	0.84	1.38	0.86	1.88	3.07	0.93	3.63	0.86	0.74	0.68	0.63	
24	0.66	0.90	1.17	0.87	1.65	2.50	1.07	2.37	0.84	0.74	0.68	0.63	
25	0.64	0.82	1.08	1.00	1.47	1.99	3.10	2.28	0.84	0.74	0.68	0.63	
26	0.64	0.77	1.05	1.01	1.34	1.66	1.94	2.22	0.83	0.73	0.68	0.63	
27	0.63	0.76	0.99	1.07	1.31	1.52	1.45	1.80	0.82	0.72	0.68	0.71	
28	0.63	0.75	0.92	1.32	1.27	1.43	1.26	1.75	0.82	0.72	0.68	0.69	
29	0.62	0.76	0.89	1.14	1.25	1.28	1.15	1.92	0.81	0.72		0.66	
30	0.63	0.72	0.86	1.02	1.23	1.24	1.23	1.61	0.80	0.71		0.69	
31		0.69		1.07	1.23		1.23		0.81	0.71		0.80	
MEAN	0.65	0.75	1.26	0.99	1.63	1.38	1.16	1.62	0.98	0.75	0.70	0.66	
MAX	0.78	0.90	2.57	1.56	2.62	3.07	3.10	3.63	1.44	0.79	0.80	0.80	3.63
MIN	0.62	0.62	0.69	0.81	0.93	0.89	0.93	0.99	0.80	0.71	0.68	0.63	0.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.56 M (A.D), AT 6.00 HOURS, ON NOV 23, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.50	1.50	2.90	4.16	10.78	8.60	10.56	9.90	17.12	3.46	2.34	2.00	
2	1.40	1.40	2.48	4.02	7.80	7.60	9.68	11.00	14.18	3.46	2.34	1.90	
3	1.50	1.40	2.10	3.88	6.44	6.80	9.24	9.02	12.68	3.46	2.34	1.80	
4	1.60	1.50	2.20	3.74	5.72	6.26	8.00	9.90	11.48	3.32	2.34	1.80	
5	1.60	2.00	2.20	3.74	5.54	5.90	7.40	8.60	10.34	3.32	2.34	1.80	
6	1.50	2.34	2.10	3.74	10.78	5.54	7.00	7.60	9.24	3.32	2.20	1.80	
7	1.40	1.90	2.62	4.16	15.48	5.36	6.62	7.20	8.80	3.32	2.20	1.80	
8	1.50	2.20	3.32	3.74	13.92	5.18	6.44	7.40	8.20	3.32	2.20	1.80	
9	1.50	2.10	4.44	7.60	44.30	5.00	6.26	9.24	7.80	3.32	2.20	1.80	
10	1.50	2.20	10.78	20.66	32.46	4.86	5.90	8.40	7.60	3.18	2.10	1.80	
11	1.60	3.04	11.48	17.40	31.75	4.86	5.72	7.40	7.40	3.04	2.10	1.80	
12	1.60	3.18	8.60	13.40	39.21	5.90	5.72	6.62	7.20	3.04	2.20	1.80	
13	1.80	2.48	9.68	7.80	21.90	7.60	5.54	12.92	6.44	3.04	2.10	1.80	
14	1.70	2.48	15.74	6.80	18.24	10.12	5.72	34.62	6.08	3.04	2.10	1.80	
15	1.80	2.76	57.16	6.08	17.96	8.40	5.90	52.12	5.90	3.04	2.10	1.70	
16	2.34	2.76	45.10	5.72	26.56	7.40	10.78	27.24	5.72	2.90	3.60	1.70	
17	3.32	3.18	58.84	5.18	56.32	11.24	7.40	20.04	5.54	2.90	2.76	1.70	
18	2.00	4.16	31.05	5.18	56.74	11.72	6.26	22.23	5.18	2.90	2.48	1.60	
19	1.90	4.72	28.26	5.18	60.96	21.59	7.20	25.54	5.00	3.04	2.20	1.50	
20	1.90	4.72	35.34	5.18	60.53	31.40	8.60	19.11	5.00	3.04	2.10	1.50	
21	1.90	3.88	44.30	5.36	43.11	42.72	8.40	20.35	4.72	2.76	2.10	1.50	
22	2.20	4.02	24.54	4.72	36.48	71.88	6.26	59.68	4.58	2.76	2.10	1.50	
23	2.00	4.16	15.48	4.44	31.40	82.03	5.54	110.52	4.44	2.76	2.00	1.50	
24	1.80	5.00	10.34	4.58	23.55	55.90	8.20	50.44	4.16	2.76	2.00	1.50	
25	1.60	3.88	8.40	6.80	17.96	35.34	83.50	46.70	4.16	2.76	2.00	1.50	
26	1.60	3.18	7.80	7.00	14.44	23.88	33.54	44.30	4.02	2.62	2.00	1.50	
27	1.50	3.04	6.62	8.20	13.66	19.42	17.40	28.60	3.88	2.48	2.00	2.34	
28	1.50	2.90	5.36	13.92	12.68	16.84	12.44	26.90	3.88	2.48	2.00	2.10	
29	1.40	3.04	4.86	9.68	12.20	12.92	9.90	32.82	3.74	2.48		1.80	
30	1.50	2.48	4.44	7.20	11.72	11.96	11.72	22.23	3.60	2.34		2.10	
31		2.10		8.20	11.72		11.72		3.74	2.34		3.60	
TOTAL	51.96	89.70	468.53	217.46	772.31	554.22	354.56	758.64	211.82	92.00	62.54	56.14	3689.87 CMSDAY
MEAN	1.73	2.89	15.62	7.01	24.91	18.47	11.44	25.29	6.83	2.97	2.23	1.81	10.11 CMS
MAX	3.32	5.00	58.84	20.66	60.96	82.03	83.50	110.52	17.12	3.46	3.60	3.60	110.52 CMS
MIN	1.40	1.40	2.10	3.74	5.54	4.86	5.54	6.62	3.60	2.34	2.00	1.50	1.40 CMS
RUNOFF	4.489	7.750	40.481	18.789	66.727	47.885	30.634	65.546	18.301	7.949	5.403	4.850	318.805 MCM

MOMENTARY PEAK 164.90 CMS, AT 4.56 M (A.D), AT 6.00 HOURS, ON NOV 23, 1981

RUNOFF YIELD 45.33 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 739.46 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.=M.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

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1975

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE. NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 354 DISCHARGE MEASUREMENTS MADE DURING 1974-1975.

REMARKS — NO RECORDS DURING JUN.23-30 AND AUG.12-18,20,22-31, 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

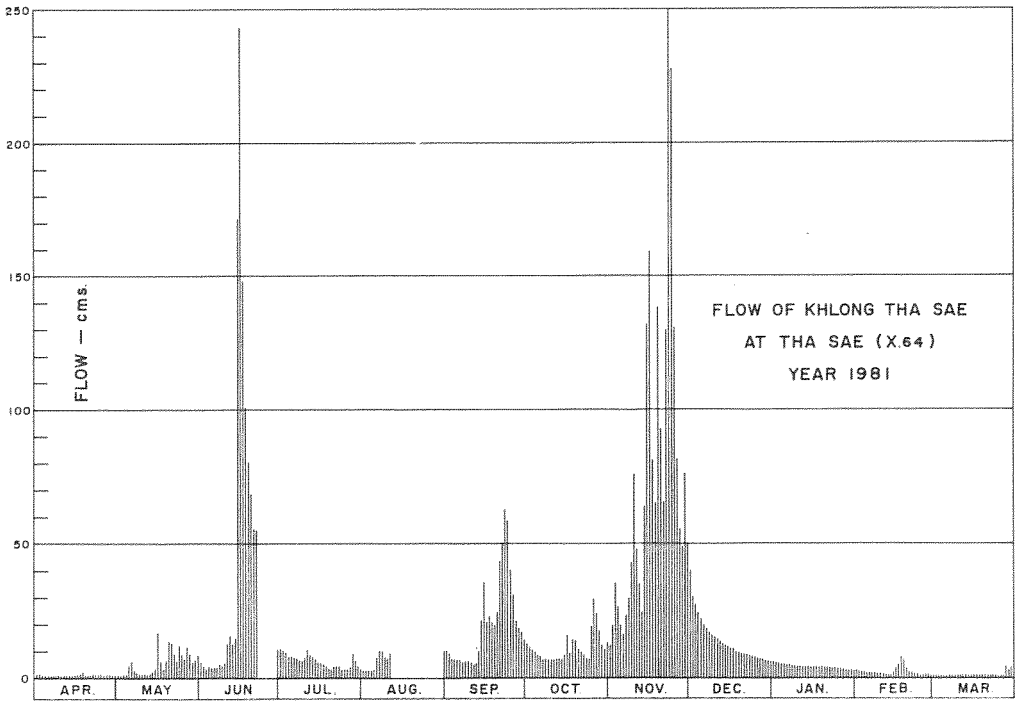
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.38	0.73	0.96	0.62	0.96	1.07	0.98	1.93	0.75	0.57	0.48	
2	0.35	0.35	0.65	0.94	0.62	0.90	1.00	1.19	1.67	0.74	0.57	0.47	
3	0.34	0.33	0.63	0.90	0.61	0.84	0.96	1.83	1.56	0.73	0.56	0.47	
4	0.34	0.36	0.65	0.84	0.61	0.84	0.91	1.43	1.45	0.72	0.56	0.46	
5	0.34	0.67	0.65	0.81	0.61	0.81	0.88	1.27	1.39	0.71	0.55	0.46	
6	0.34	0.78	0.65	0.81	0.83	0.80	0.85	1.19	1.35	0.71	0.55	0.45	
7	0.34	0.53	0.69	0.80	0.97	0.75	0.83	1.48	1.24	0.70	0.55	0.45	
8	0.34	0.52	0.64	0.80	0.95	0.78	0.83	1.59	1.20	0.69	0.55	0.45	
9	0.34	0.45	0.62	0.77	0.82	0.78	0.82	2.04	1.15	0.69	0.54	0.44	
10	0.33	0.45	0.72	0.83	0.81	0.76	0.82	3.02	1.15	0.68	0.54	0.44	
11	0.33	0.46	1.06	0.95	0.93	0.71	0.80	1.96	1.10	0.68	0.53	0.43	
12	0.33	0.45	1.19	0.89	*******	0.71	0.80	1.54	1.11	0.67	0.52	0.43	
13	0.33	0.45	1.03	0.82	*******	0.82	0.81	1.39	1.08	0.66	0.52	0.43	
14	0.33	0.54	1.12	0.78	*******	1.32	0.76	2.92	1.05	0.66	0.52	0.43	
15	0.33	0.61	4.26	0.74	*******	1.86	0.79	4.28	1.01	0.66	0.51	0.41	
16	0.33	1.23	6.17	0.74	*******	1.34	1.19	4.83	0.99	0.66	0.53	0.41	
17	0.42	0.73	4.39	0.70	*******	1.46	0.93	2.90	0.98	0.65	0.67	0.41	
18	0.42	0.61	3.34	0.68	*******	1.34	1.13	2.70	0.95	0.64	0.86	0.40	
19	0.45	0.58	3.07	0.65	3.19	1.30	1.10	4.41	0.94	0.64	0.68	0.40	
20	0.53	1.09	2.80	0.64	*******	1.32	0.99	3.25	0.93	0.64	0.59	0.40	
21	0.46	1.06	2.48	0.64	3.30	2.09	0.97	2.73	0.92	0.63	0.56	0.40	
22	0.42	0.94	2.46	0.65	*******	2.31	0.88	4.40	0.89	0.62	0.55	0.40	
23	0.41	0.75	*******	0.63	*******	2.69	0.80	6.41	0.87	0.62	0.53	0.39	
24	0.40	1.04	*******	0.62	*******	2.35	0.81	5.70	0.86	0.61	0.52	0.39	
25	0.38	0.86	*******	0.60	*******	1.90	1.41	3.87	0.83	0.61	0.51	0.39	
26	0.37	0.83	*******	0.59	*******	1.55	1.68	2.86	0.81	0.60	0.50	0.39	
27	0.36	1.03	*******	0.62	*******	1.32	1.34	2.40	0.81	0.60	0.50	0.40	
28	0.36	0.85	*******	0.90	*******	1.26	1.12	2.27	0.79	0.59	0.49	0.65	
29	0.35	0.78	*******	0.74	*******	1.22	1.00	3.02	0.78	0.59		0.57	
30	0.42	0.82	0.98	0.65	*******	1.11	0.97	2.26	0.78	0.58		0.64	
31		0.86		0.63	*******		1.09		0.76	0.58		0.84	
MEAN	0.37	0.69	*******	0.75	*******	1.27	0.98	2.74	1.08	0.66	0.56	0.46	
MAX	0.53	1.23	6.17	0.96	3.30	2.69	1.68	6.41	1.93	0.75	0.86	0.84	6.41
MIN	0.33	0.33	*******	0.59	*******	0.71	0.76	0.98	0.76	0.58	0.49	0.39	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.90 M (A.D), AT 6.00 HOURS, ON JUN 16, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	5.60	10.50	3.40	10.50	13.25	11.00	37.40	6.00	2.55	1.20	
2	0.00	0.00	4.00	10.00	3.40	9.00	11.50	16.25	29.60	5.80	2.55	1.05	
3	0.00	0.00	3.60	9.00	3.20	7.80	10.50	34.40	26.30	5.60	2.40	1.05	
4	0.00	0.00	4.00	7.80	3.20	7.80	9.25	22.40	23.00	5.40	2.40	0.90	
5	0.00	4.40	4.00	7.20	3.20	7.20	8.60	18.25	21.25	5.20	2.25	0.90	
6	0.00	6.60	4.00	7.20	7.60	7.00	8.00	16.25	20.25	5.20	2.25	0.75	
7	0.00	1.95	4.80	7.00	10.75	6.00	7.60	23.90	17.50	5.00	2.25	0.75	
8	0.00	1.80	3.80	7.00	10.25	6.60	7.60	27.20	16.50	4.80	2.25	0.75	
9	0.00	0.75	3.40	6.40	7.40	6.60	7.40	40.70	15.25	4.80	2.10	0.60	
10	0.00	0.75	5.40	7.60	7.20	6.20	7.40	76.80	15.25	4.60	2.10	0.60	
11	0.00	0.90	13.00	10.25	9.75	5.20	7.00	38.30	14.00	4.60	1.95	0.45	
12	0.00	0.75	16.25	8.80	*******	5.20	7.00	25.70	14.25	4.40	1.80	0.45	
13	0.00	0.75	12.25	7.40	*******	7.40	7.20	21.25	13.50	4.20	1.80	0.45	
14	0.00	2.10	14.50	6.60	*******	19.50	6.20	72.80	12.75	4.20	1.80	0.45	
15	0.00	3.20	131.00	5.80	*******	35.30	6.80	132.00	11.75	4.20	1.65	0.15	
16	0.00	17.25	243.25	5.80	*******	20.00	16.25	159.50	11.25	4.20	1.95	0.15	
17	0.30	5.60	137.50	5.00	*******	23.30	9.75	72.00	11.00	4.00	4.40	0.15	
18	0.30	3.20	89.60	4.60	*******	20.00	14.75	64.00	10.25	3.80	8.20	0.00	
19	0.75	2.70	78.80	4.00	83.60	19.00	14.00	138.50	10.00	3.80	4.60	0.00	
20	1.95	13.75	68.00	3.80	*******	19.50	11.25	86.00	9.75	3.80	2.85	0.00	
21	0.90	13.00	55.80	3.80	88.00	42.20	10.75	65.20	9.50	3.60	2.40	0.00	
22	0.30	10.00	55.10	4.00	*******	49.85	8.60	138.00	8.80	3.40	2.25	0.00	
23	0.15	6.00	*******	3.60	*******	63.60	7.00	261.80	8.40	3.40	1.95	0.00	
24	0.00	12.50	*******	3.40	*******	51.25	7.20	210.00	8.20	3.20	1.80	0.00	
25	0.00	8.20	*******	3.00	*******	36.50	21.80	113.15	7.60	3.20	1.65	0.00	
26	0.00	7.60	*******	2.85	*******	26.00	29.90	70.40	7.20	3.00	1.50	0.00	
27	0.00	12.25	*******	3.40	*******	19.50	20.00	53.00	7.20	3.00	1.50	0.00	
28	0.00	8.00	*******	9.00	*******	18.00	14.50	48.45	6.80	2.85	1.35	4.00	
29	0.00	6.60	*******	5.80	*******	17.00	11.50	76.80	6.60	2.85		2.55	
30	0.30	7.40	11.00	4.00	*******	14.25	10.75	48.10	6.60	2.70		3.80	
31		8.20		3.60	*******		13.75		6.20	2.70		7.80	
TOTAL	4.95	166.20	*******	188.20	*******	587.25	347.05	2182.10	423.90	127.50	68.50	28.95	******** CMSDAY
MEAN	0.16	5.36	*******	6.07	*******	19.57	11.20	72.74	13.67	4.11	2.45	0.93	******* CMS
MAX	1.95	17.25	243.25	10.50	88.00	63.60	29.90	261.80	37.40	6.00	8.20	7.80	261.80 CMS
MIN	0.00	0.00	*******	2.85	*******	5.20	6.20	11.00	6.20	2.70	1.35	0.00	******* CMS
RUNOFF	0.428	14.360	*******	16.260	*******	50.738	29.985	188.533	36.625	11.016	5.918	2.501	******** MCM

MOMENTARY PEAK 303.00 CMS, AT 6.90 M (A.D), AT 6.00 HOURS, ON JUN 16, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 316.61 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

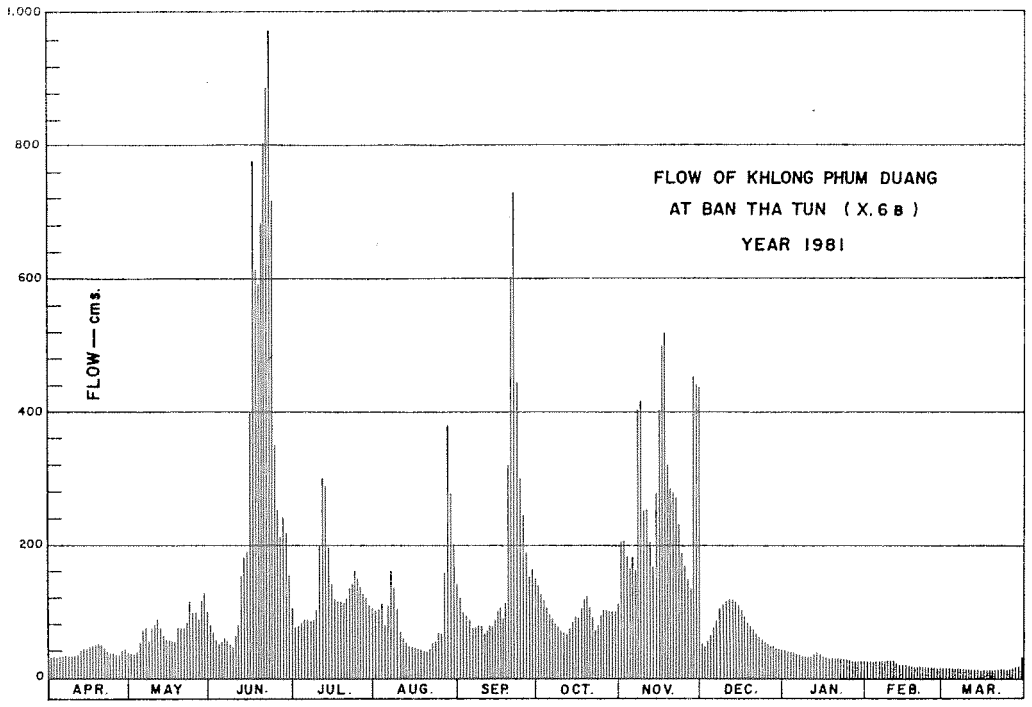
KHLONG PHUM DUANG AT BAN THA TUN, SURAT THANI (X.6B)

LOCATION	LAT. 9°-03'-57" N., LONG. 99°-02'-58" E., ON RIGHT BANK AT BAN THA TUN, TAMBON THAM SINGKHON, AMPHOE KHIRI RATTHANIKHOM.
DRAINAGE AREA	4,415 SQ KM.
TYPE OF GAGE	WATER-STAGE RECORDER.
ZERO GAGE AT BOTTOM AT	+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	1972 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1972-1974
RATED BY FLOAT	-
RATED BY CURRENT METER	1972-1974
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 75 DISCHARGE MEASUREMENTS MADE IN 1973.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.16	1.20	1.58	1.94	1.89	2.18	2.21	2.65	1.49	1.30	1.04	0.94	
2	1.15	1.21	1.47	1.64	1.87	1.98	2.08	2.66	1.31	1.30	1.05	0.93	
3	1.15	1.24	1.41	1.71	1.97	1.86	2.07	2.55	1.35	1.28	1.06	0.92	
4	1.15	1.31	1.43	1.75	1.69	1.80	2.03	2.37	1.47	1.27	1.05	0.91	
5	1.17	1.59	1.52	1.76	1.78	1.78	1.91	2.49	1.58	1.27	1.04	0.91	
6	1.17	1.65	1.45	1.78	2.03	1.70	1.86	2.33	1.71	1.26	1.03	0.90	
7	1.17	1.59	1.38	1.75	2.37	1.61	1.79	3.83	1.77	1.25	1.03	0.89	
8	1.17	1.44	1.32	1.73	2.11	1.69	1.73	3.96	1.92	1.23	1.04	0.89	
9	1.16	1.64	1.49	1.88	1.93	1.70	1.65	3.00	1.95	1.20	1.06	0.89	
10	1.16	1.69	1.65	2.25	1.62	1.58	1.62	2.92	1.98	1.17	1.07	0.89	
11	1.16	1.77	2.18	3.63	1.52	1.55	1.59	2.98	2.03	1.17	1.07	0.89	
12	1.20	1.67	2.46	3.29	1.42	1.63	1.56	2.54	2.04	1.19	1.03	0.88	
13	1.32	1.54	2.50	3.22	1.41	1.69	1.65	2.41	2.02	1.25	0.97	0.88	
14	1.31	1.49	2.64	2.64	1.35	1.67	1.70	3.01	2.00	1.22	0.99	0.88	
15	1.28	1.48	4.23	2.28	1.33	1.76	1.82	3.76	1.99	1.18	0.97	0.88	
16	1.33	1.46	5.64	2.03	1.32	1.91	1.78	4.37	1.90	1.16	0.98	0.88	
17	1.39	1.44	4.91	2.03	1.31	1.92	1.81	4.43	1.85	1.13	0.96	0.88	
18	1.38	1.44	4.81	2.03	1.30	1.77	2.01	3.59	1.78	1.13	0.96	0.88	
19	1.37	1.68	5.21	2.01	1.28	1.97	2.07	3.23	1.68	1.13	0.95	0.88	
20	1.40	1.66	5.65	2.00	1.25	3.50	1.94	3.18	1.66	1.12	0.95	0.88	
21	1.33	1.63	5.99	2.03	1.24	4.91	1.86	3.15	1.64	1.13	0.95	0.87	
22	1.27	1.74	6.42	2.18	1.44	5.15	1.69	3.06	1.60	1.12	0.95	0.87	
23	1.21	2.00	4.90	2.22	1.44	4.20	1.60	2.82	1.45	1.12	0.95	0.87	
24	1.23	1.88	3.62	2.37	1.55	3.43	1.76	2.53	1.42	1.12	0.93	0.86	
25	1.22	1.88	2.97	2.23	1.55	2.97	1.87	2.40	1.41	1.14	0.93	0.86	
26	1.20	1.78	2.72	2.17	1.54	2.70	1.88	2.29	1.40	1.14	0.93	0.86	
27	1.20	1.95	2.90	2.11	2.24	2.42	1.87	2.17	1.34	1.13	0.93	0.87	
28	1.25	2.10	2.83	2.03	3.75	2.29	1.88	4.13	1.33	1.07	0.93	0.90	
29	1.31	1.98	2.38	2.00	3.26	2.36	1.87	4.07	1.32	1.06		0.93	
30	1.27	1.82	2.02	1.92	2.79	2.26	1.88	4.06	1.31	1.05		1.19	
31		1.67		1.90	2.46		1.97		1.31	1.05		1.31	
MEAN	1.24	1.63	3.06	2.15	1.81	2.33	1.84	3.10	1.65	1.17	0.99	0.91	
MAX	1.40	2.10	6.42	3.63	3.75	5.15	2.21	4.43	2.04	1.30	1.07	1.31	6.42
MIN	1.15	1.20	1.32	1.64	1.24	1.55	1.56	2.17	1.31	1.05	0.93	0.86	0.86

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.87 M (MSL), AT 6.00 HOURS, ON JUN 22, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	32.80	36.00	69.00	108.80	102.80	138.40	142.40	204.50	60.10	44.00	24.40	18.40	
2	32.00	36.80	58.30	75.00	100.40	113.60	125.60	206.00	44.80	44.00	25.00	17.80	
3	32.00	39.20	52.90	82.10	112.40	99.20	124.40	190.00	48.00	42.40	25.60	17.20	
4	32.00	44.80	54.70	86.50	80.00	92.00	119.60	164.80	58.30	41.60	25.00	16.60	
5	33.60	70.00	63.00	87.60	89.80	89.80	105.20	181.60	69.00	41.60	24.40	16.60	
6	33.60	76.00	56.50	89.80	119.60	81.00	99.20	159.20	82.10	40.80	23.80	16.00	
7	33.60	70.00	50.40	86.50	164.80	72.00	90.90	397.40	88.70	40.00	23.80	15.40	
8	33.60	55.60	45.60	84.30	129.30	80.00	84.30	421.40	106.40	38.40	24.40	15.40	
9	32.80	75.00	60.10	101.60	107.60	81.00	76.00	257.00	110.00	36.00	25.60	15.40	
10	32.80	80.00	76.00	148.00	73.00	69.00	73.00	245.00	113.60	33.60	26.20	15.40	
11	32.80	88.70	138.40	361.40	63.00	66.00	70.00	254.00	119.60	33.60	26.20	15.40	
12	36.00	78.00	177.40	302.40	53.80	74.00	67.00	188.60	120.80	35.20	23.80	14.80	
13	45.60	65.00	183.00	291.20	52.90	80.00	76.00	170.40	118.40	40.00	20.20	14.80	
14	44.80	60.10	203.00	203.00	48.00	78.00	81.00	258.50	116.00	37.60	21.40	14.80	
15	42.40	59.20	474.00	152.20	46.40	87.60	94.40	384.80	114.80	34.40	20.20	14.80	
16	46.40	57.40	778.20	119.60	45.60	105.20	89.80	502.00	104.00	32.80	20.80	14.80	
17	51.20	55.60	613.20	119.60	44.80	106.40	93.20	514.00	98.00	30.40	19.60	14.80	
18	50.40	55.60	592.10	119.60	44.00	88.70	117.20	354.20	89.80	30.40	19.60	14.80	
19	49.60	79.00	679.30	117.20	42.40	112.40	124.40	292.80	79.00	30.40	19.00	14.80	
20	52.00	77.00	780.50	116.00	40.00	338.00	108.80	284.80	77.00	29.60	19.00	14.80	
21	46.40	74.00	862.50	119.60	39.20	613.20	99.20	280.00	75.00	30.40	19.00	14.20	
22	41.60	85.40	974.20	138.40	55.60	666.00	80.00	266.00	71.00	29.60	19.00	14.20	
23	36.80	116.00	611.00	143.80	55.60	468.00	71.00	230.00	56.50	29.60	19.00	14.20	
24	38.40	101.60	359.60	164.80	66.00	325.40	87.60	187.20	53.80	29.60	17.80	13.60	
25	37.60	101.60	252.50	145.20	66.00	252.50	100.40	169.00	52.90	31.20	17.80	13.60	
26	36.00	89.80	215.00	137.10	65.00	212.00	101.60	153.60	52.00	31.20	17.80	13.60	
27	36.00	110.00	242.00	129.30	146.60	171.80	100.40	137.10	47.20	30.40	17.80	14.20	
28	40.00	128.00	231.50	119.60	383.00	153.60	101.60	454.00	46.40	26.20	17.80	16.00	
29	44.80	113.60	166.20	116.00	297.60	163.40	100.40	442.30	45.60	25.60		17.80	
30	41.60	94.40	118.40	106.40	225.50	149.40	101.60	440.40	44.80	25.00		35.20	
31		78.00		104.00	177.40		112.40		44.80	25.00		44.80	
TOTAL	1179.20	2351.40	9238.50	4276.60	3138.10	5227.60	3018.60	8390.59	2408.40	1050.60	604.00	524.20	41407.74 CMSDAY
MEAN	39.31	75.85	307.95	137.95	101.23	174.25	97.37	279.69	77.69	33.89	21.57	16.91	113.45 CMS
MAX	52.00	128.00	974.20	361.40	383.00	666.00	142.40	514.00	120.80	44.00	26.20	44.80	974.20 CMS
MIN	32.00	36.00	45.60	75.00	39.20	66.00	67.00	137.10	44.80	25.00	17.80	13.60	13.60 CMS
RUNOFF	101.883	203.161	798.206	369.498	271.132	451.664	260.807	724.947	208.085	90.772	52.186	45.291	3577.628 MCM

MOMENTARY PEAK 1094.60 CMS, AT 6.87 M (MSL), AT 6.00 HOURS, ON JUN 22, 1981

RUNOFF YIELD 25.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 247.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +4.83 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — AT THE FOOT OF THE LADDER OF 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

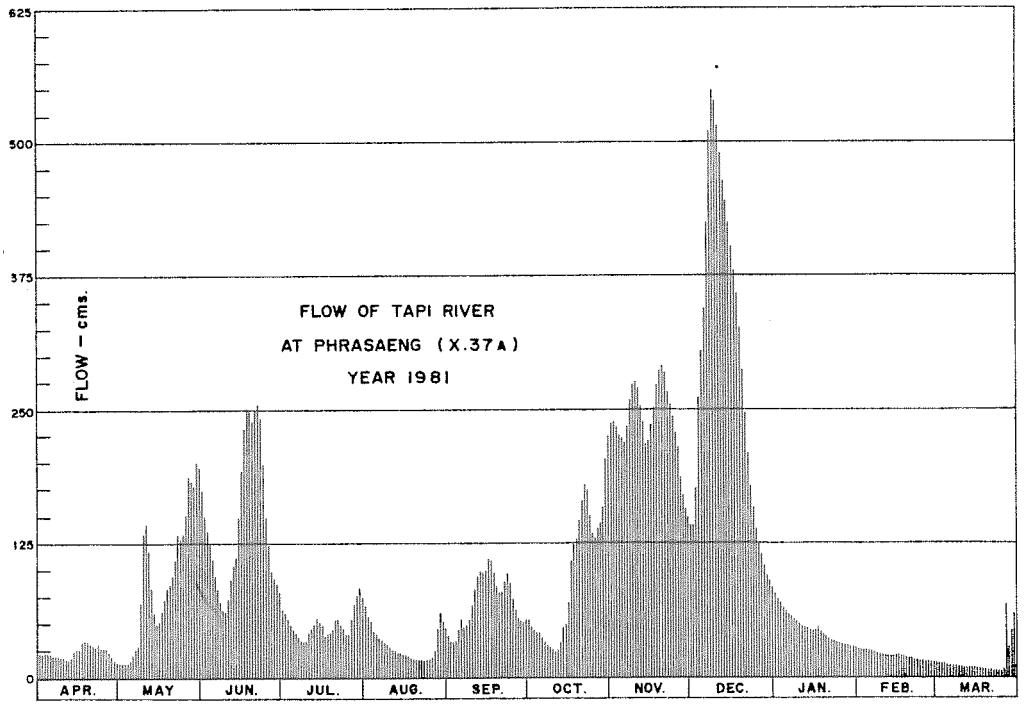
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 50 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.75	5.55	8.23	6.75	6.71	6.16	6.47	9.45	8.19	6.90	5.89	5.57	
2	5.75	5.54	7.98	6.61	6.57	6.05	6.39	9.46	8.20	6.83	5.87	5.56	
3	5.75	5.54	7.79	6.49	6.45	6.02	6.28	9.40	8.75	6.76	5.87	5.55	
4	5.74	5.54	7.63	6.39	6.31	6.06	6.23	9.34	9.69	6.71	5.88	5.54	
5	5.73	5.60	7.42	6.29	6.19	6.31	6.18	9.30	10.06	6.64	5.86	5.52	
6	5.71	5.74	7.19	6.21	6.12	6.45	6.10	9.26	10.35	6.59	5.84	5.51	
7	5.71	5.88	6.97	6.14	6.08	6.36	6.03	9.43	10.78	6.53	5.81	5.51	
8	5.70	5.93	6.77	6.08	6.04	6.38	5.97	9.66	11.12	6.49	5.79	5.50	
9	5.68	6.76	6.65	6.03	5.98	6.50	5.92	9.80	11.24	6.44	5.77	5.49	
10	5.67	7.76	6.67	6.04	5.93	6.72	5.87	9.84	11.16	6.40	5.76	5.47	
11	5.65	7.86	6.82	6.19	5.88	6.98	5.84	9.77	11.00	6.36	5.75	5.47	
12	5.61	7.54	7.13	6.34	5.85	7.17	5.87	9.63	10.83	6.33	5.73	5.47	
13	5.70	7.01	7.33	6.39	5.80	7.26	6.08	9.46	10.66	6.30	5.74	5.47	
14	5.82	6.58	7.45	6.51	5.77	7.24	6.31	9.25	10.52	6.27	5.74	5.46	
15	5.89	6.37	7.77	6.52	5.75	7.28	6.39	9.28	10.37	6.24	5.75	5.46	
16	5.87	6.42	8.45	6.39	5.73	7.43	6.74	9.44	10.22	6.28	5.75	5.44	
17	5.91	6.64	8.89	6.26	5.70	7.39	7.41	9.60	10.05	6.33	5.76	5.43	
18	6.03	6.82	9.01	6.20	5.68	7.25	7.80	9.80	9.87	6.25	5.71	5.42	
19	6.02	6.95	8.99	6.23	5.65	7.05	7.92	9.92	9.64	6.18	5.68	5.42	
20	6.01	7.05	8.95	6.31	5.64	6.91	8.29	9.96	9.31	6.14	5.67	5.41	
21	5.93	7.16	9.00	6.45	5.64	6.94	8.57	9.91	8.97	6.11	5.65	5.40	
22	5.92	7.39	9.05	6.49	5.62	7.09	8.78	9.79	8.61	6.08	5.64	5.39	
23	5.96	7.69	8.90	6.39	5.63	7.22	8.70	9.65	8.29	6.05	5.63	5.39	
24	5.89	7.67	8.50	6.29	5.65	7.08	8.35	9.52	8.04	6.03	5.62	5.38	
25	5.89	7.74	7.95	6.19	5.67	6.85	8.02	9.35	7.82	6.01	5.63	5.39	
26	5.89	7.97	7.61	6.21	5.71	6.70	7.95	9.19	7.64	6.00	5.62	5.39	
27	5.79	8.37	7.28	6.47	5.83	6.58	8.10	8.87	7.47	5.97	5.60	6.74	
28	5.69	8.31	7.15	6.74	6.29	6.45	8.23	8.63	7.33	5.95	5.59	5.89	
29	5.62	8.27	7.07	6.87	6.62	6.41	8.50	8.44	7.19	5.94		6.25	
30	5.57	8.52	6.94	7.00	6.46	6.44	9.09	8.32	7.08	5.91		6.59	
31		8.48		6.89	6.30		9.38		6.98	5.90		7.06	
MEAN	5.79	6.99	7.78	6.40	5.98	6.76	7.22	9.42	9.27	6.29	5.74	5.63	
MAX	6.03	8.52	9.05	7.00	6.71	7.43	9.38	9.96	11.24	6.90	5.89	7.06	11.24
MIN	5.57	5.54	6.65	6.03	5.62	6.02	5.84	8.32	6.98	5.90	5.59	5.38	5.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.26 M (MSL), AT 12.00 HOURS, ON DEC 9, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	21.50	13.21	174.70	69.00	66.60	38.88	53.76	237.00	142.50	78.00	27.30	14.04	
2	21.50	12.80	152.40	60.60	58.56	33.93	49.92	238.00	143.00	73.80	26.47	13.63	
3	21.50	12.80	137.20	54.72	52.80	32.69	44.64	232.00	178.50	69.60	26.47	13.21	
4	21.09	12.80	125.10	49.92	46.08	34.34	42.24	226.60	261.00	66.60	26.89	12.80	
5	20.67	15.29	110.40	45.12	40.32	46.08	39.84	223.00	303.80	62.40	26.06	11.97	
6	19.84	21.09	95.40	41.28	36.96	52.80	36.00	219.40	344.00	59.52	25.23	11.56	
7	19.84	26.89	82.20	37.92	35.17	48.48	33.10	235.00	423.60	56.64	23.99	11.56	
8	19.43	28.96	70.20	35.17	33.51	49.44	30.61	258.00	510.00	54.72	23.16	11.14	
9	18.60	69.60	63.00	33.10	31.03	55.20	28.54	273.00	548.00	52.32	22.33	10.73	
10	18.19	134.80	64.20	33.51	28.96	67.20	26.47	277.40	539.00	50.40	21.91	9.90	
11	17.36	142.80	73.20	40.32	26.89	82.80	25.23	269.70	515.00	48.48	21.50	9.90	
12	15.70	118.80	91.80	47.52	25.64	94.20	26.47	255.00	489.50	47.04	20.67	9.90	
13	19.43	84.60	104.10	49.92	23.57	99.60	35.17	238.00	464.40	45.60	21.09	9.90	
14	24.40	59.04	112.50	55.68	22.33	98.40	46.08	218.50	444.80	44.16	21.09	9.49	
15	27.30	48.96	135.60	56.16	21.50	100.80	49.92	221.20	423.80	42.72	21.50	9.49	
16	26.47	51.36	194.50	49.92	20.67	111.10	68.40	236.00	402.80	44.64	21.50	8.66	
17	28.13	62.40	238.00	43.68	19.43	108.30	109.70	252.00	379.50	47.04	21.91	8.24	
18	33.10	73.20	251.10	40.80	18.60	99.00	124.00	273.00	356.10	43.20	19.84	7.83	
19	32.69	81.00	248.90	42.24	17.36	87.00	129.00	286.40	326.20	39.84	18.60	7.83	
20	32.27	87.00	244.50	46.08	16.94	78.60	148.40	291.20	286.20	37.92	18.19	7.41	
21	28.96	93.60	250.00	52.80	16.94	80.40	165.90	285.20	246.70	36.48	17.36	7.00	
22	28.54	108.30	255.50	54.72	16.11	89.40	180.60	271.90	210.00	35.17	16.94	6.65	
23	30.20	129.30	239.00	49.92	16.53	97.20	175.00	257.00	180.10	33.93	16.53	6.65	
24	27.30	127.90	199.00	45.12	17.36	88.80	152.00	244.00	157.60	33.10	16.11	6.30	
25	27.30	133.20	150.00	40.32	18.19	75.00	134.00	227.50	139.60	32.27	16.53	6.65	
26	27.30	151.60	123.70	41.28	19.84	66.00	130.50	213.10	125.80	31.86	16.11	6.65	
27	23.16	187.30	100.80	53.76	24.81	59.04	138.00	186.90	113.90	30.61	15.29	68.40	
28	19.01	181.90	93.00	68.40	45.12	52.80	144.80	170.10	104.10	29.79	14.87	27.30	
29	16.11	178.30	88.20	76.20	61.20	50.88	161.00	157.40	95.40	29.37		43.20	
30	14.04	201.00	80.40	84.00	53.28	52.32	204.20	150.20	88.80	28.13		59.52	
31		197.20		77.40	45.60		230.20		82.80	27.71		87.60	
TOTAL	700.93	2847.00	4348.60	1576.58	977.90	2130.68	2963.69	7123.69	9026.49	1413.06	585.44	535.11	34229.14 CMSDAY
MEAN	23.36	91.84	144.95	50.86	31.55	71.02	95.60	237.46	291.18	45.58	20.91	17.26	93.78 CMS
MAX	33.10	201.00	255.50	84.00	66.60	111.10	230.20	291.20	548.00	78.00	27.30	87.60	548.00 CMS
MIN	14.04	12.80	63.00	33.10	16.11	32.69	25.23	150.20	82.80	27.71	14.87	6.30	6.30 CMS
RUNOFF	60.560	245.981	375.719	136.216	84.490	184.091	256.063	615.487	779.888	122.088	50.582	46.233	2957.397 MCM

MOMENTARY PEAK 555.00 CMS, AT 11.26 M (MSL), AT 12.00 HOURS, ON DEC 9, 1981

RUNOFF YIELD 18.03 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 106.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG PHUM DUANG AT BAN TA KHUN, SURAT THANI (X.38A)

LOCATION — LAT. 8°-54'-56" N., LONG. 98°-53'-30" E., ON RIGHT BANK AT BAN TA KHUN, KING AMPHOE BAN TA KHUN, SURAT THANI.

DRAINAGE AREA — 2,706 SQ.KM.

TYPE OF GAGE — WATER-STAGE RECORDER.

ZERO GAGE AT BOTTOM AT — +3.508 M.(M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE AUTOMATIC BUILDING.

ELEVATION — +20.697 M. (M.S.L.)

GAGE READING FREQUENCY — RECORDING.

BASIS OF MEAN DAILY GAGE HEIGHT — ARITTMETIC MEAN OF 24 READINGS.

PERIOD OF AVAILABLE GAGE RECORDS — 1974 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1980

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1980

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

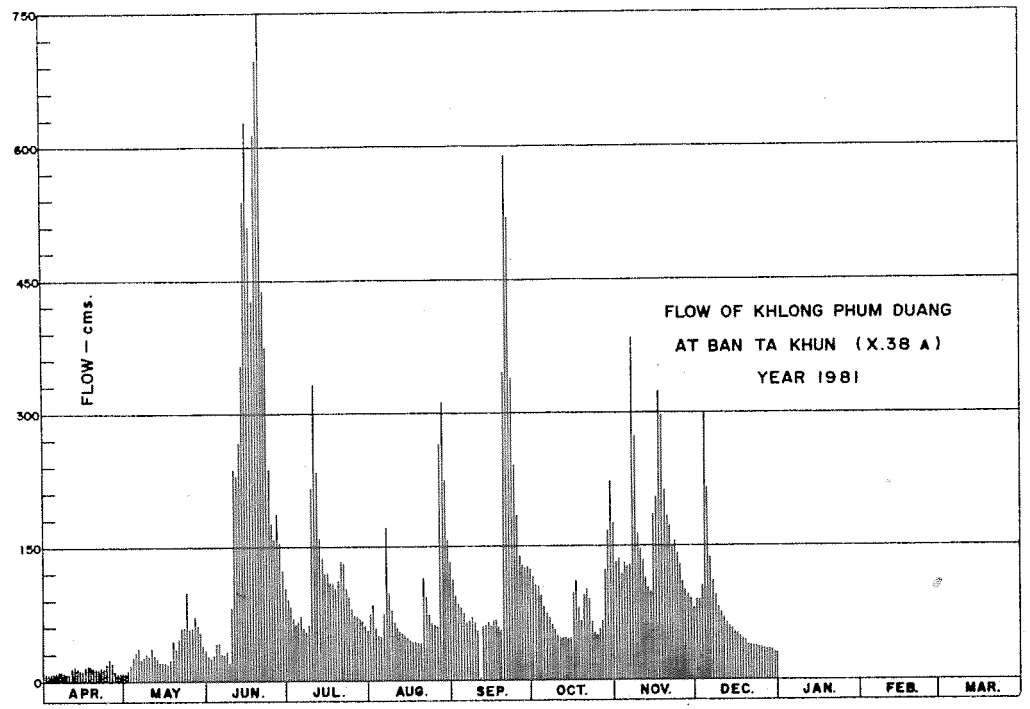
GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 87 DISCHARGE MEASUREMENTS MADE IN 1980.

REMARKS — NO RECORDS DURING SEP.11-12,1981 AND JAN.1-MAR.31,1982.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.32	4.37	4.85	5.75	5.57	6.05	6.10	6.33	5.78	*******	*******	*******	
2	4.32	4.46	4.77	5.67	5.72	5.85	5.93	6.36	5.75	*******	*******	*******	
3	4.34	4.55	4.82	5.51	5.37	5.71	5.95	6.09	5.94	*******	*******	*******	
4	4.38	4.77	5.11	5.42	5.26	5.65	5.83	6.30	8.07	*******	*******	*******	
5	4.40	4.90	5.08	5.49	5.22	5.59	5.68	6.26	7.30	*******	*******	*******	
6	4.41	4.97	4.86	5.55	5.59	5.45	5.60	6.27	6.42	*******	*******	*******	
7	4.44	4.73	4.75	5.35	6.86	5.44	5.53	8.78	6.04	*******	*******	*******	
8	4.39	4.81	4.80	5.30	6.00	5.56	5.45	7.83	5.81	*******	*******	*******	
9	4.36	4.85	4.67	5.43	5.62	5.44	5.37	6.76	5.68	*******	*******	*******	
10	4.36	4.80	5.68	7.28	5.46	5.32	5.25	6.55	5.58	*******	*******	*******	
11	4.41	4.98	7.50	8.35	5.38	*******	5.21	6.36	5.54	*******	*******	*******	
12	4.55	4.82	7.43	7.49	5.30	*******	5.19	6.08	5.47	*******	*******	*******	
13	4.58	4.73	7.79	6.82	5.28	5.41	5.18	5.93	5.40	*******	*******	*******	
14	4.49	4.66	8.54	6.41	5.20	5.46	5.17	5.86	5.35	*******	*******	*******	
15	4.45	4.64	9.90	6.15	5.19	5.42	5.30	7.11	5.29	*******	*******	*******	
16	4.54	4.64	10.45	6.15	5.12	5.48	5.69	7.39	5.25	*******	*******	*******	
17	4.60	4.65	9.35	6.00	5.09	5.51	6.03	8.28	5.20	*******	*******	*******	
18	4.56	4.76	9.09	5.99	5.09	5.36	5.65	8.05	5.16	*******	*******	*******	
19	4.52	5.15	10.37	5.91	5.04	6.10	5.48	7.27	5.10	*******	*******	*******	
20	4.52	4.97	10.85	6.02	5.20	8.45	5.83	6.95	5.07	*******	*******	*******	
21	4.46	5.20	11.42	6.35	6.08	10.22	5.89	6.87	5.05	*******	*******	*******	
22	4.54	5.39	10.55	6.33	5.86	9.78	5.77	6.58	5.03	*******	*******	*******	
23	4.50	5.42	8.71	5.93	5.65	8.40	5.46	6.67	5.01	*******	*******	*******	
24	4.63	5.87	7.50	5.82	5.45	7.54	5.29	6.47	4.97	*******	*******	*******	
25	4.73	5.37	6.90	5.66	5.42	6.99	5.25	6.29	4.95	*******	*******	*******	
26	4.64	5.35	6.71	5.55	5.41	6.44	5.36	6.04	4.93	*******	*******	*******	
27	4.54	5.54	7.01	5.54	7.76	6.27	5.48	5.90	4.91	*******	*******	*******	
28	4.42	5.42	6.65	5.52	8.19	6.25	6.23	5.84	4.90	*******	*******	*******	
29	4.38	5.29	6.18	5.49	7.38	6.26	6.82	5.76	4.88	*******		*******	
30	4.37	5.07	5.92	5.40	6.83	6.18	7.37	5.66	4.86	*******		*******	
31		4.93		5.35	6.36		6.89		4.85	*******		*******	
MEAN	4.47	4.97	7.27	5.97	5.77	*******	5.72	6.63	5.47	*******	*******	*******	
MAX	4.73	5.87	11.42	8.35	8.19	10.22	7.37	8.78	8.07	*******	*******	*******	11.42
MIN	4.32	4.37	4.67	5.30	5.04	*******	5.17	5.66	4.85	*******	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 11.57 M (MSL), AT 12.00 HOURS, ON JUN 21, 1981
ZERO GAGE AT BOTTOM ELEVATION 3.51 M (MSL), RIVER BED 2.68 M (MSL)
LEFT BANK ELEVATION 15.68 M (MSL)
RIGHT BANK ELEVATION 20.84 M (MSL), DRAINAGE AREA 2706 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	8.00	9.25	30.50	89.28	74.22	113.52	116.83	132.09	91.79	*******	*******	*******	
2	8.00	12.40	26.50	82.59	86.77	97.65	104.34	134.08	89.28	*******	*******	*******	
3	8.50	16.00	29.00	69.20	58.20	85.94	106.02	116.17	105.18	*******	*******	*******	
4	9.50	26.50	43.50	61.67	51.60	80.92	95.98	130.10	299.70	*******	*******	*******	
5	10.00	33.00	42.00	67.53	49.20	75.90	83.43	127.45	216.00	*******	*******	*******	
6	10.40	36.50	31.00	72.55	75.90	64.18	76.73	128.11	138.06	*******	*******	*******	
7	11.60	24.50	25.50	57.00	173.40	63.35	70.88	385.40	112.85	*******	*******	*******	
8	9.75	28.50	28.00	54.00	110.20	73.39	64.18	273.30	94.30	*******	*******	*******	
9	9.00	30.50	21.50	62.51	78.41	63.35	58.20	164.40	83.43	*******	*******	*******	
10	9.00	28.00	83.43	214.00	65.02	55.20	51.00	146.68	75.06	*******	*******	*******	
11	10.40	37.00	237.00	332.00	58.80	*******	48.60	134.08	71.71	*******	*******	*******	
12	16.00	29.00	229.30	235.90	54.00	*******	47.50	115.51	65.86	*******	*******	*******	
13	17.20	24.50	268.90	169.80	52.80	60.84	47.00	104.34	60.00	*******	*******	*******	
14	13.60	21.00	354.80	137.40	48.00	65.02	46.50	98.49	57.00	*******	*******	*******	
15	12.00	20.00	539.00	120.15	47.50	61.67	54.00	197.00	53.40	*******	*******	*******	
16	15.60	20.00	626.50	120.15	44.00	66.69	84.26	225.00	51.00	*******	*******	*******	
17	18.00	20.50	459.50	110.20	42.50	69.20	112.19	323.60	48.00	*******	*******	*******	
18	16.40	26.00	425.70	109.36	42.50	57.60	80.92	297.50	46.00	*******	*******	*******	
19	14.80	45.50	613.20	102.67	40.00	116.83	66.69	213.00	43.00	*******	*******	*******	
20	14.80	36.50	694.50	111.53	48.00	344.00	95.98	181.50	41.50	*******	*******	*******	
21	12.40	48.00	793.80	133.42	115.51	589.20	101.00	174.30	40.50	*******	*******	*******	
22	15.60	59.40	643.50	132.09	98.49	521.00	90.96	148.67	39.50	*******	*******	*******	
23	14.00	61.67	376.30	104.34	80.92	338.00	65.02	156.30	38.50	*******	*******	*******	
24	19.50	99.32	237.00	95.14	64.18	241.40	53.40	141.38	36.50	*******	*******	*******	
25	24.50	58.20	177.00	81.75	61.67	185.10	51.00	129.44	35.50	*******	*******	*******	
26	20.00	57.00	159.90	72.55	60.84	139.39	57.60	112.85	34.50	*******	*******	*******	
27	15.60	71.71	187.00	71.71	265.60	128.11	66.69	101.83	33.50	*******	*******	*******	
28	10.80	61.67	154.50	70.04	312.90	126.78	125.46	96.81	33.00	*******	*******	*******	
29	9.50	53.40	122.14	67.53	224.00	127.45	169.80	90.12	32.00	*******		*******	
30	9.25	41.50	103.51	60.00	170.70	122.14	223.00	81.75	31.00	*******		*******	
31		34.50		57.00	134.08		176.10		30.50	*******		*******	
TOTAL	393.70	1171.52	7763.98	3325.06	2889.91	*******	2691.26	4861.25	2228.12	*******	*******	*******	******** CMSDAY
MEAN	13.12	37.79	258.80	107.26	93.22	*******	86.81	162.04	71.87	*******	*******	*******	******* CMS
MAX	24.50	99.32	793.80	332.00	312.90	589.20	223.00	385.40	299.70	*******	*******	*******	793.80 CMS
MIN	8.00	9.25	21.50	54.00	40.00	*******	46.50	81.75	30.50	*******	*******	*******	******* CMS
RUNOFF	34.016	101.219	670.807	287.285	249.688	*******	232.525	420.011	192.509	*******	*******	*******	******** MCM

MOMENTARY PEAK 822.30 CMS, AT 11.57 M (MSL), AT 12.00 HOURS, ON JUN 21, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 303.88 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +8.550 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 10 METERS UPSTREAM FROM THE MEASURING LINE.

ELEVATION — +21.625 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 TO DATE.

RATED BY FLOAT — -

RATED BY CURRENT METER — 1969 TO DATE.

STABILITY OF CHANNEL REGIMES — STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 71 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

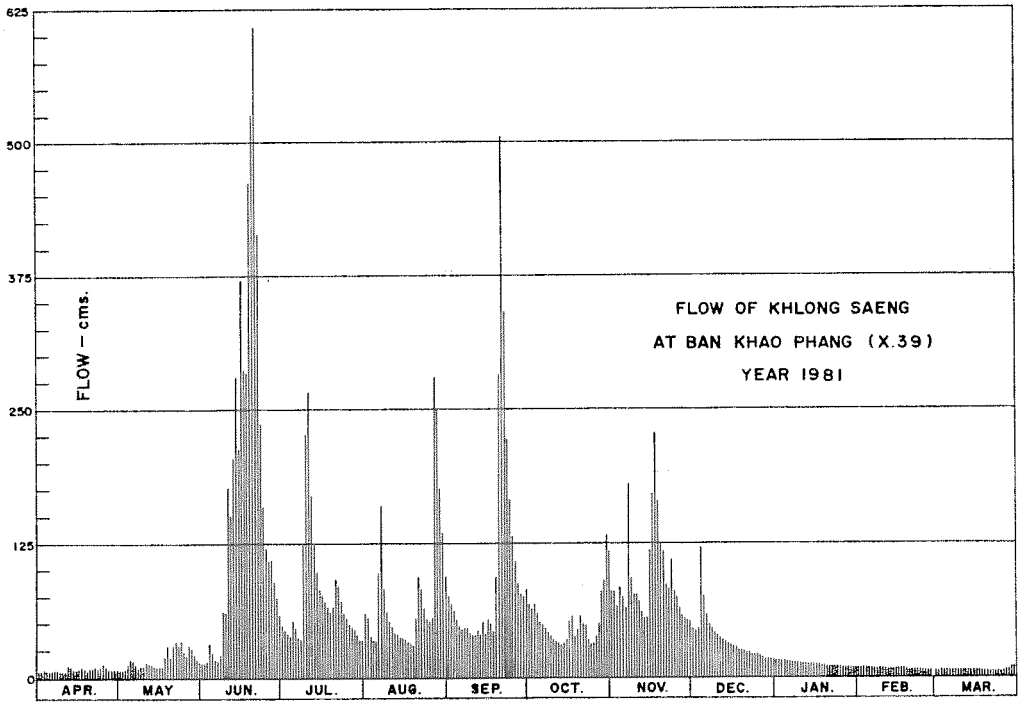
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.20	9.21	9.43	10.14	10.26	10.62	10.41	10.54	10.05	9.50	9.32	9.24	
2	9.20	9.22	9.42	10.04	10.22	10.43	10.35	10.58	10.02	9.49	9.33	9.24	
3	9.22	9.25	9.45	9.97	9.97	10.31	10.42	10.40	10.04	9.48	9.33	9.24	
4	9.22	9.39	9.80	9.94	9.89	10.21	10.28	10.62	11.10	9.47	9.32	9.23	
5	9.21	9.51	9.65	10.15	9.86	10.12	10.17	10.50	10.53	9.46	9.32	9.23	
6	9.21	9.48	9.50	10.06	10.53	10.05	10.10	10.36	10.27	9.45	9.32	9.22	
7	9.25	9.34	9.44	9.91	11.55	10.05	10.05	11.75	10.14	9.44	9.31	9.22	
8	9.22	9.30	9.60	9.88	10.59	10.09	9.98	10.90	10.05	9.43	9.31	9.22	
9	9.20	9.36	10.31	10.25	10.30	9.96	9.91	10.55	9.98	9.43	9.30	9.22	
10	9.19	9.35	10.30	12.22	10.16	9.94	9.86	10.56	9.93	9.42	9.30	9.23	
11	9.23	9.42	11.73	12.56	10.09	9.95	9.84	10.46	9.91	9.41	9.29	9.23	
12	9.37	9.40	11.46	11.63	10.00	10.03	9.83	10.30	9.86	9.41	9.29	9.23	
13	9.33	9.37	12.03	11.13	9.97	9.97	9.79	10.21	9.82	9.41	9.29	9.23	
14	9.28	9.33	12.66	10.82	9.91	10.17	9.78	10.23	9.80	9.40	9.29	9.22	
15	9.27	9.32	12.08	10.62	9.91	9.99	9.87	11.08	9.76	9.40	9.29	9.22	
16	9.30	9.33	13.44	10.55	9.86	10.19	10.18	11.66	9.74	9.39	9.29	9.22	
17	9.32	9.33	12.76	10.44	9.83	10.11	10.27	12.24	9.72	9.39	9.30	9.21	
18	9.30	9.56	12.75	10.37	9.80	9.98	9.94	11.60	9.69	9.38	9.29	9.21	
19	9.25	9.74	14.10	10.31	9.76	10.65	10.04	11.14	9.67	9.37	9.28	9.21	
20	9.30	9.54	14.57	10.39	10.22	12.71	10.24	11.07	9.65	9.36	9.28	9.21	
21	9.32	9.75	15.14	10.75	10.76	14.40	10.13	10.69	9.63	9.36	9.27	9.21	
22	9.34	9.81	13.76	10.65	10.61	13.19	10.14	10.62	9.62	9.36	9.27	9.21	
23	9.29	9.79	12.31	10.44	10.36	12.13	9.89	10.97	9.60	9.35	9.27	9.21	
24	9.33	9.87	11.53	10.29	10.20	11.61	9.81	10.65	9.59	9.35	9.26	9.21	
25	9.39	9.66	11.10	10.18	10.17	11.21	9.83	10.51	9.58	9.35	9.26	9.21	
26	9.33	9.57	10.94	10.12	10.22	10.89	9.93	10.36	9.56	9.34	9.25	9.21	
27	9.28	9.74	10.96	10.09	12.70	10.69	10.14	10.28	9.55	9.34	9.25	9.25	
28	9.25	9.71	10.71	10.04	12.43	10.55	10.59	10.21	9.53	9.33	9.24	9.28	
29	9.23	9.61	10.48	9.95	11.73	10.52	10.71	10.18	9.52	9.33		9.32	
30	9.23	9.51	10.29	9.88	11.24	10.61	11.23	10.18	9.51	9.32		9.32	
31		9.43		9.90	10.87		11.04		9.50	9.32		9.31	
MEAN	9.27	9.49	11.39	10.44	10.45	10.71	10.15	10.71	9.84	9.39	9.29	9.23	
MAX	9.39	9.87	15.14	12.56	12.70	14.40	11.23	12.24	11.10	9.50	9.33	9.32	15.14
MIN	9.19	9.21	9.42	9.88	9.76	9.94	9.78	10.18	9.50	9.32	9.24	9.21	9.19

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.51 M (MSL), AT 5.00 HOURS, ON JUN 21, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.00	5.30	13.20	50.40	57.60	82.40	67.70	76.80	45.00	16.00	8.80	6.20	
2	5.00	5.60	12.80	44.40	55.20	69.10	63.50	79.60	43.20	15.60	9.20	6.20	
3	5.60	6.50	14.00	40.20	40.20	60.70	68.40	67.00	44.40	15.20	9.20	6.20	
4	5.60	11.60	31.00	38.40	35.50	54.60	58.80	82.40	120.00	14.80	8.80	5.90	
5	5.30	16.50	23.50	51.00	34.00	49.20	52.20	74.00	76.10	14.40	8.80	5.90	
6	5.30	15.20	16.00	45.60	76.10	45.00	48.00	64.20	58.20	14.00	8.80	5.60	
7	6.50	9.60	13.60	36.60	160.50	45.00	45.00	179.00	50.40	13.60	8.40	5.60	
8	5.60	8.00	21.00	35.00	80.30	47.40	40.80	104.00	45.00	13.20	8.40	5.60	
9	5.00	10.40	60.70	57.00	60.00	39.60	36.60	77.50	40.80	13.20	8.00	5.60	
10	4.75	10.00	60.00	227.20	51.60	38.40	34.00	78.20	37.80	12.80	8.00	5.90	
11	5.90	12.80	177.00	264.60	47.40	39.00	33.00	71.20	36.60	12.40	7.70	5.90	
12	10.80	12.00	152.40	167.70	42.00	43.80	32.50	60.00	34.00	12.40	7.70	5.90	
13	9.20	10.80	207.00	122.70	40.20	40.20	30.50	54.60	32.00	12.40	7.70	5.90	
14	7.40	9.20	275.60	97.60	36.60	52.20	30.00	55.80	31.00	12.00	7.70	5.60	
15	7.10	8.80	212.00	82.40	36.60	41.40	34.50	118.40	29.00	12.00	7.70	5.60	
16	8.00	9.20	371.20	77.50	34.00	53.40	52.80	170.40	28.00	11.60	7.70	5.60	
17	8.80	9.20	286.60	69.80	32.50	48.60	58.20	229.40	27.00	11.60	8.00	5.30	
18	8.00	19.00	285.50	64.90	31.00	40.80	38.40	165.00	25.50	11.20	7.70	5.30	
19	6.50	28.00	462.00	60.70	29.00	84.50	44.40	123.60	24.50	10.80	7.40	5.30	
20	8.00	18.00	427.80	66.30	55.20	281.10	56.40	117.60	23.50	10.40	7.40	5.30	
21	8.80	28.50	608.00	92.00	92.80	504.00	49.80	87.30	22.50	10.40	7.10	5.30	
22	9.60	31.50	414.40	84.50	81.70	338.70	50.40	82.40	22.00	10.40	7.10	5.30	
23	7.70	30.50	237.10	69.80	64.20	217.30	35.50	109.60	21.00	10.00	7.10	5.30	
24	9.20	34.50	158.70	59.40	54.00	165.90	31.50	84.50	20.50	10.00	6.80	5.30	
25	11.60	24.00	120.00	52.80	52.20	129.90	32.50	74.70	20.00	10.00	6.80	5.30	
26	9.20	19.50	107.20	49.20	55.20	103.20	37.80	64.20	19.00	9.60	6.50	5.30	
27	7.40	28.00	108.80	47.40	280.00	87.30	50.40	58.80	18.50	9.60	6.50	6.50	
28	6.50	26.50	88.80	44.40	250.30	77.50	80.30	54.60	17.50	9.20	6.20	7.40	
29	5.90	21.50	72.60	39.00	177.00	75.40	88.80	52.80	17.00	9.20		8.80	
30	5.90	16.50	59.40	35.00	132.60	81.70	131.70	52.80	16.50	8.80		8.80	
31		13.20		36.00	101.60		115.20		16.00	8.80		8.40	
TOTAL	215.15	509.90	5197.90	2309.50	2377.10	3037.30	1629.60	2770.40	1062.50	365.60	217.20	186.10	19878.22 CMSDAY
MEAN	7.17	16.45	173.26	74.50	76.68	101.24	52.57	92.35	34.27	11.79	7.76	6.00	54.46 CMS
MAX	11.60	34.50	608.00	264.60	280.00	504.00	131.70	229.40	120.00	16.00	9.20	8.80	608.00 CMS
MIN	4.75	5.30	12.80	35.00	29.00	38.40	30.00	52.80	16.00	8.80	6.20	5.30	4.75 CMS
RUNOFF	18.589	44.055	449.098	199.541	205.381	262.423	140.797	239.362	91.800	31.588	18.766	16.079	1717.478 MCM

MOMENTARY PEAK 663.50 CMS, AT 15.51 M (MSL), AT 5.00 HOURS, ON JUN 21, 1981

RUNOFF YIELD 37.90 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 461.73 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 CONCRETE BRIDGE OF TAKUAPA-SURAT THANI HIGHWAY, AMPHOE PHANOM, SURAT THANI.

DRAINAGE AREA — 312 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — B.M.1 ON RIGHT BANK UNDER JACK FRUIT TREE, B.M.2 ON RIGHT BANK UNDER ROSE APPLE TREE.

ELEVATION — B.M.1=+7.079 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK 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, 1981 TO MARCH 31, 1982

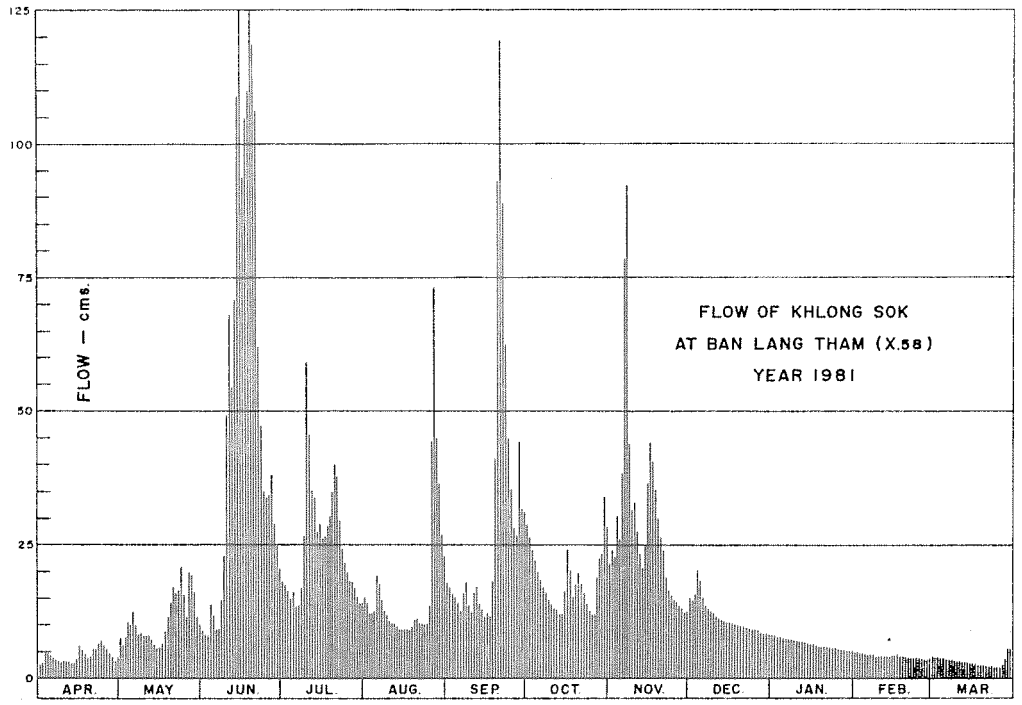
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.23	0.53	0.57	1.02	0.88	1.02	1.38	1.14	0.88	0.56	0.39	0.34	
2	0.24	0.43	0.52	0.98	0.83	0.97	1.31	1.24	0.87	0.55	0.39	0.33	
3	0.39	0.47	0.52	0.92	0.79	0.93	1.27	1.17	0.92	0.55	0.38	0.32	
4	0.35	0.68	0.82	0.87	0.75	0.90	1.16	1.44	1.09	0.54	0.38	0.30	
5	0.33	0.62	0.65	0.92	0.76	0.87	1.08	1.32	0.93	0.53	0.37	0.29	
6	0.32	0.78	0.59	0.81	1.07	0.79	1.02	1.59	0.86	0.52	0.37	0.29	
7	0.30	0.60	0.59	0.81	0.95	0.88	0.97	3.10	0.83	0.52	0.36	0.28	
8	0.27	0.54	0.87	0.86	0.82	1.03	0.92	1.87	0.80	0.51	0.36	0.28	
9	0.25	0.57	1.04	1.06	0.75	0.83	0.89	1.48	0.77	0.50	0.35	0.28	
10	0.27	0.56	1.67	2.30	0.73	0.75	0.84	1.52	0.76	0.50	0.35	0.27	
11	0.27	0.56	2.52	2.01	0.69	0.93	0.82	1.33	0.75	0.50	0.34	0.27	
12	0.25	0.54	2.15	1.60	0.68	0.98	0.80	1.20	0.73	0.49	0.34	0.27	
13	0.24	0.47	2.50	1.52	0.65	0.83	0.77	1.09	0.72	0.49	0.34	0.26	
14	0.23	0.44	2.87	1.33	0.62	0.80	0.76	1.14	0.71	0.49	0.33	0.25	
15	0.34	0.42	4.01	1.40	0.60	0.74	0.97	1.55	0.71	0.48	0.32	0.24	
16	0.45	0.42	3.12	1.32	0.61	0.75	1.22	2.00	0.70	0.47	0.32	0.24	
17	0.39	0.44	3.26	1.32	0.60	0.73	1.10	1.85	0.69	0.47	0.32	0.24	
18	0.34	0.54	3.51	1.36	0.60	0.98	0.91	1.50	0.68	0.45	0.35	0.24	
19	0.33	0.69	3.80	1.43	0.60	1.99	0.84	1.38	0.66	0.45	0.33	0.23	
20	0.31	0.79	3.57	1.53	0.70	3.29	1.09	1.26	0.64	0.45	0.32	0.23	
21	0.42	0.97	3.39	1.76	0.70	3.68	1.02	1.17	0.62	0.44	0.32	0.22	
22	0.40	0.91	2.46	1.46	0.65	2.76	0.95	1.09	0.62	0.44	0.31	0.22	
23	0.46	0.94	1.94	1.30	0.67	2.20	0.86	1.04	0.61	0.44	0.31	0.22	
24	0.50	1.09	1.61	1.21	0.65	1.82	0.82	1.00	0.61	0.43	0.32	0.22	
25	0.44	0.81	1.56	1.09	0.67	1.58	0.79	0.99	0.60	0.41	0.33	0.22	
26	0.40	0.71	1.57	1.03	0.91	1.39	0.77	0.97	0.59	0.41	0.33	0.22	
27	0.37	1.06	1.69	1.02	2.62	1.29	1.02	0.94	0.58	0.41	0.32	0.31	
28	0.33	1.00	1.39	0.97	1.85	1.88	1.15	0.92	0.58	0.40	0.31	0.29	
29	0.27	0.85	1.23	0.91	1.57	1.49	1.20	0.87	0.57	0.40		0.42	
30	0.26	0.69	1.11	0.85	1.35	1.47	1.58	0.84	0.57	0.40		0.43	
31		0.62		0.84	1.16		1.32		0.56	0.39		0.42	
MEAN	0.33	0.67	1.90	1.22	0.89	1.35	1.02	1.33	0.72	0.47	0.34	0.28	
MAX	0.50	1.09	4.01	2.30	2.62	3.68	1.58	3.10	1.09	0.56	0.39	0.43	4.01
MIN	0.23	0.42	0.52	0.81	0.60	0.73	0.76	0.84	0.56	0.39	0.31	0.22	0.22

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.48 M (A.D), AT 15.00 HOURS, ON JUN 15, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.45	7.60	8.40	18.56	15.00	18.56	28.64	21.92	15.00	8.20	4.85	4.10	
2	2.60	5.60	7.40	17.50	13.75	17.25	26.68	24.72	14.75	8.00	4.85	3.95	
3	4.85	6.40	7.40	16.00	12.80	16.25	25.56	22.76	16.00	8.00	4.70	3.80	
4	4.25	10.60	13.50	14.75	12.00	15.50	22.48	30.44	20.52	7.80	4.70	3.50	
5	3.95	9.40	10.00	16.00	12.20	14.75	20.24	26.96	16.25	7.60	4.55	3.35	
6	3.80	12.60	8.80	13.25	19.96	12.80	18.56	35.09	14.50	7.40	4.55	3.35	
7	3.50	9.00	8.80	13.25	16.75	15.00	17.25	92.50	13.75	7.40	4.40	3.20	
8	3.05	7.80	14.75	14.50	13.50	18.84	16.00	44.45	13.00	7.20	4.40	3.20	
9	2.75	8.40	19.12	19.68	12.00	13.75	15.25	31.68	12.40	7.00	4.25	3.20	
10	3.05	8.20	37.71	59.50	11.60	12.00	14.00	32.92	12.20	7.00	4.25	3.05	
11	3.05	8.20	67.80	49.35	10.80	16.25	13.50	27.24	12.00	7.00	4.10	3.05	
12	2.75	7.80	54.25	35.40	10.60	17.50	13.00	23.60	11.60	6.80	4.10	3.05	
13	2.60	6.40	67.00	32.92	10.00	13.75	12.40	20.52	11.40	6.80	4.10	2.90	
14	2.45	5.80	82.15	27.24	9.40	13.00	12.20	21.92	11.20	6.80	3.95	2.75	
15	4.10	5.40	136.12	29.20	9.00	11.80	17.25	33.85	11.20	6.60	3.80	2.60	
16	6.00	5.40	93.40	26.96	9.20	12.00	24.16	49.00	11.00	6.40	3.80	2.60	
17	4.85	5.80	99.70	26.96	9.00	11.60	20.80	43.75	10.80	6.40	4.70	2.60	
18	4.10	7.80	111.28	28.08	9.00	17.50	15.75	32.30	10.60	6.00	4.25	2.60	
19	3.95	10.80	125.60	30.13	9.00	48.65	14.00	28.64	10.20	6.00	3.95	2.45	
20	3.65	12.80	114.16	33.23	11.00	101.05	20.52	25.28	9.80	6.00	3.80	2.45	
21	5.40	17.25	105.55	40.68	11.00	119.60	18.56	22.76	9.40	5.80	3.80	2.30	
22	5.00	15.75	65.40	31.06	10.00	77.40	16.75	20.52	9.40	5.80	3.65	2.30	
23	6.20	16.50	46.90	26.40	10.40	56.00	14.50	19.12	9.20	5.80	3.65	2.30	
24	7.00	20.52	35.73	23.88	10.00	42.70	13.50	18.00	9.20	5.60	3.80	2.30	
25	5.80	13.25	34.16	20.52	10.40	34.78	12.80	17.75	9.00	5.20	3.95	2.30	
26	5.00	11.20	34.47	18.84	15.75	28.92	12.40	17.25	8.80	5.20	3.95	2.30	
27	4.55	19.68	38.37	18.56	71.80	26.12	18.56	16.50	8.60	5.20	3.80	3.65	
28	3.95	18.00	28.92	17.25	43.75	44.80	22.20	16.00	8.60	5.00	3.65	3.35	
29	3.05	14.25	24.44	15.75	34.47	31.99	23.60	14.75	8.40	5.00		5.40	
30	2.90	10.80	21.08	14.25	27.80	31.37	34.78	14.00	8.40	5.00		5.60	
31		9.40		14.00	22.48		26.96		8.20	4.85		5.40	
TOTAL	120.60	328.40	1522.36	763.65	504.41	911.48	582.85	846.19	355.37	198.85	116.30	98.95	6349.40 CMSDAY
MEAN	4.02	10.59	50.75	24.63	16.27	30.38	18.80	28.21	11.46	6.41	4.15	3.19	17.40 CMS
MAX	7.00	20.52	136.12	59.50	71.80	119.60	34.78	92.50	20.52	8.20	4.85	5.60	136.12 CMS
MIN	2.45	5.40	7.40	13.25	9.00	11.60	12.20	14.00	8.20	4.85	3.65	2.30	2.30 CMS
RUNOFF	10.420	28.374	131.532	65.979	43.581	78.752	50.358	73.111	30.704	17.181	10.048	8.549	548.588 MCM

MOMENTARY PEAK 161.40 CMS, AT 4.48 M (A.D), AT 15.00 HOURS, ON JUN 15, 1981

RUNOFF YIELD 55.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 517.31 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG YAN AT BAN NAM HAK, SURAT THANI (X.92)

LOCATION — LAT. 9°-06'-18" N., LONG. 98°-58'-52" E., ON RIGHT BANK AT BAN NAM HAK, AMPHOE KHIRI RATTHANIKHOM, SURAT THANI.

DRAINAGE AREA — 1,001 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — NEAR THE GAGE SITE.

ELEVATION — +6.958 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 — 1973 TO DATE.

RATING OPERATION

PERIOD OF RATING — 1974-1981

RATED BY FLOAT — -

RATED BY CURRENT METER — 1974-1981

STABILITY OF CHANNEL REGIMES — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 75 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — NO RECORDS DURING APR.1-30,1981 AND RECORDS ENDING ON NOV.23,1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

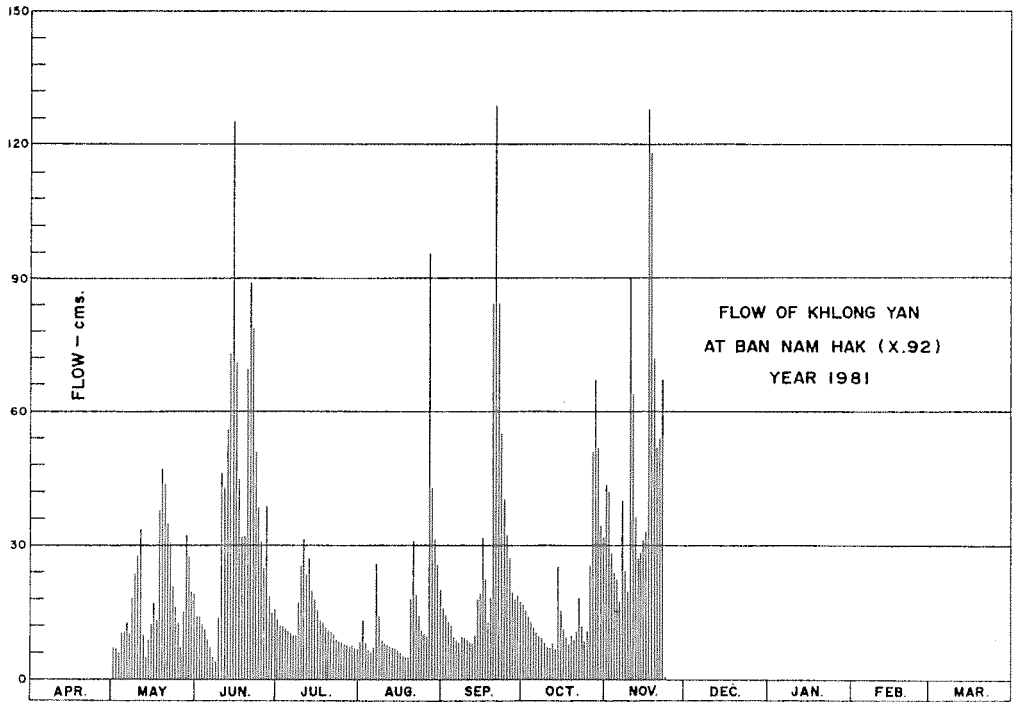
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.96	1.22	1.15	1.01	1.21	1.23	1.75	*******	*******	*******	*******	
2	*******	0.96	1.15	1.12	1.13	1.16	1.18	1.72	*******	*******	*******	*******	
3	*******	0.93	1.09	1.10	1.02	1.12	1.14	1.46	*******	*******	*******	*******	
4	*******	1.06	1.08	1.09	0.97	1.12	1.13	1.37	*******	*******	*******	*******	
5	*******	1.05	1.02	1.07	0.93	1.07	1.10	1.35	*******	*******	*******	*******	
6	*******	1.11	0.96	1.06	0.97	1.03	1.07	1.24	*******	*******	*******	*******	
7	*******	1.05	0.92	1.05	1.41	1.00	1.05	1.68	*******	*******	*******	*******	
8	*******	1.24	0.89	1.05	1.15	1.04	1.03	1.39	*******	*******	*******	*******	
9	*******	1.37	1.14	1.23	1.04	1.04	1.02	1.30	*******	*******	*******	*******	
10	*******	1.45	1.80	1.41	0.99	1.03	0.99	2.51	*******	*******	*******	*******	
11	*******	1.55	1.76	1.53	0.99	1.02	0.98	1.82	*******	*******	*******	*******	
12	*******	1.11	1.61	1.37	0.98	1.00	1.02	1.61	*******	*******	*******	*******	
13	*******	1.03	1.96	1.44	0.97	1.05	0.97	1.44	*******	*******	*******	*******	
14	*******	1.00	2.24	1.30	0.96	1.25	1.40	1.48	*******	*******	*******	*******	
15	*******	1.10	3.02	1.26	0.95	1.28	1.20	1.55	*******	*******	*******	*******	
16	*******	1.22	2.42	1.19	0.93	1.53	1.09	2.86	*******	*******	*******	*******	
17	*******	1.15	1.77	1.14	0.91	1.34	1.04	3.06	*******	*******	*******	*******	
18	*******	1.64	1.53	1.12	0.91	1.12	1.00	2.93	*******	*******	*******	*******	
19	*******	1.81	1.53	1.09	0.90	1.28	1.05	2.09	*******	*******	*******	*******	
20	*******	1.75	2.18	1.07	1.18	2.41	1.03	1.89	*******	*******	*******	*******	
21	*******	1.64	2.49	1.07	1.52	3.07	1.07	1.94	*******	*******	*******	*******	
22	*******	1.51	2.33	1.06	1.26	2.43	1.26	2.15	*******	*******	*******	*******	
23	*******	1.31	1.88	1.04	1.15	1.95	1.10	*******	*******	*******	*******	*******	
24	*******	1.21	1.65	1.01	1.08	1.69	1.02	*******	*******	*******	*******	*******	
25	*******	1.10	1.51	1.00	1.06	1.54	1.07	*******	*******	*******	*******	*******	
26	*******	0.97	1.40	1.00	1.04	1.43	1.48	*******	*******	*******	*******	*******	
27	*******	1.18	1.66	1.00	2.59	1.30	1.82	*******	*******	*******	*******	*******	
28	*******	1.54	1.36	0.99	1.74	1.24	2.15	*******	*******	*******	*******	*******	
29	*******	1.45	1.17	0.99	1.53	1.29	1.90	*******	*******	*******		*******	
30	*******	1.29	1.20	0.96	1.41	1.21	1.60	*******	*******	*******		*******	
31		1.28		0.96	1.30		1.53		*******	*******		*******	
MEAN	*******	1.26	1.60	1.13	1.16	1.37	1.22	*******	*******	*******	*******	*******	
MAX	*******	1.81	3.02	1.53	2.59	3.07	2.15	3.06	*******	*******	*******	*******	3.07
MIN	*******	0.93	0.89	0.96	0.90	1.00	0.97	*******	*******	*******	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.40 M (A.D), AT 18.00 HOURS, ON JUN 15, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED -0.20 M (A.D)

LEFT BANK ELEVATION — 10.31 M (A.D)

RIGHT BANK ELEVATION — 8.37 M (A.D), DRAINAGE AREA 1001 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	6.80	16.80	14.00	8.40	16.40	17.20	43.75	*******	*******	*******	*******	
2	*******	6.80	14.00	12.80	13.20	14.40	15.20	42.10	*******	*******	*******	*******	
3	*******	5.90	11.60	12.00	8.80	12.80	13.60	28.00	*******	*******	*******	*******	
4	*******	10.40	11.20	11.60	7.10	12.80	13.20	23.50	*******	*******	*******	*******	
5	*******	10.00	8.80	10.80	5.90	10.80	12.00	22.50	*******	*******	*******	*******	
6	*******	12.40	6.80	10.40	7.10	9.20	10.80	17.60	*******	*******	*******	*******	
7	*******	10.00	5.60	10.00	25.50	8.00	10.00	39.90	*******	*******	*******	*******	
8	*******	17.60	4.70	10.00	14.00	9.60	9.20	24.50	*******	*******	*******	*******	
9	*******	23.50	13.60	17.20	9.60	9.60	8.80	20.00	*******	*******	*******	*******	
10	*******	27.50	46.50	25.50	7.70	9.20	7.70	90.21	*******	*******	*******	*******	
11	*******	32.75	44.30	31.65	7.70	8.80	7.40	47.60	*******	*******	*******	*******	
12	*******	12.40	36.05	23.50	7.40	8.00	8.80	36.05	*******	*******	*******	*******	
13	*******	9.20	55.60	27.00	7.10	10.00	7.10	27.00	*******	*******	*******	*******	
14	*******	8.00	72.95	20.00	6.80	18.00	25.00	29.00	*******	*******	*******	*******	
15	*******	12.00	125.07	18.40	6.50	19.20	16.00	32.75	*******	*******	*******	*******	
16	*******	16.80	84.46	15.60	5.90	31.65	11.60	113.68	*******	*******	*******	*******	
17	*******	14.00	44.85	13.60	5.30	22.00	9.60	127.92	*******	*******	*******	*******	
18	*******	37.70	31.65	12.80	5.30	12.80	8.00	118.66	*******	*******	*******	*******	
19	*******	47.05	31.65	11.60	5.00	19.20	10.00	63.40	*******	*******	*******	*******	
20	*******	43.75	69.11	10.80	15.20	83.82	9.20	51.45	*******	*******	*******	*******	
21	*******	37.70	88.93	10.80	31.10	128.63	10.80	54.40	*******	*******	*******	*******	
22	*******	30.55	78.70	10.40	18.40	85.10	18.40	67.20	*******	*******	*******	*******	
23	*******	20.50	50.90	9.60	14.00	55.00	12.00	*******	*******	*******	*******	*******	
24	*******	16.40	38.25	8.40	11.20	40.45	8.80	*******	*******	*******	*******	*******	
25	*******	12.00	30.55	8.00	10.40	32.20	10.80	*******	*******	*******	*******	*******	
26	*******	7.10	25.00	8.00	9.60	26.50	29.00	*******	*******	*******	*******	*******	
27	*******	15.20	38.80	8.00	95.33	20.00	47.60	*******	*******	*******	*******	*******	
28	*******	32.20	23.00	7.70	43.20	17.60	67.20	*******	*******	*******	*******	*******	
29	*******	27.50	14.80	7.70	31.65	19.60	52.00	*******	*******	*******		*******	
30	*******	19.60	16.00	6.80	25.50	16.40	35.50	*******	*******	*******		*******	
31		19.20		6.80	20.00		31.65		*******	*******		*******	
TOTAL	*******	602.50	1140.22	411.45	489.88	787.75	554.15	*******	*******	*******	*******	*******	******** CMSDAY
MEAN	*******	19.44	38.01	13.27	15.80	26.26	17.88	*******	*******	*******	*******	*******	******* CMS
MAX	*******	47.05	125.07	31.65	95.33	128.63	67.20	127.92	*******	*******	*******	*******	128.63 CMS
MIN	*******	5.90	4.70	6.80	5.00	8.00	7.10	*******	*******	*******	*******	*******	******* CMS
RUNOFF	*******	52.056	98.515	35.549	42.326	68.062	47.879	*******	*******	*******	*******	*******	******** MCM

MOMENTARY PEAK 152.50 CMS, AT 3.40 M (A.D), AT 18.00 HOURS, ON JUN 15, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 152.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 NEAR BAN WIANG SA SCHOOL, AMPHOE WIANG SA, SURAT THANI.

DRAINAGE AREA — 105 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 161 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

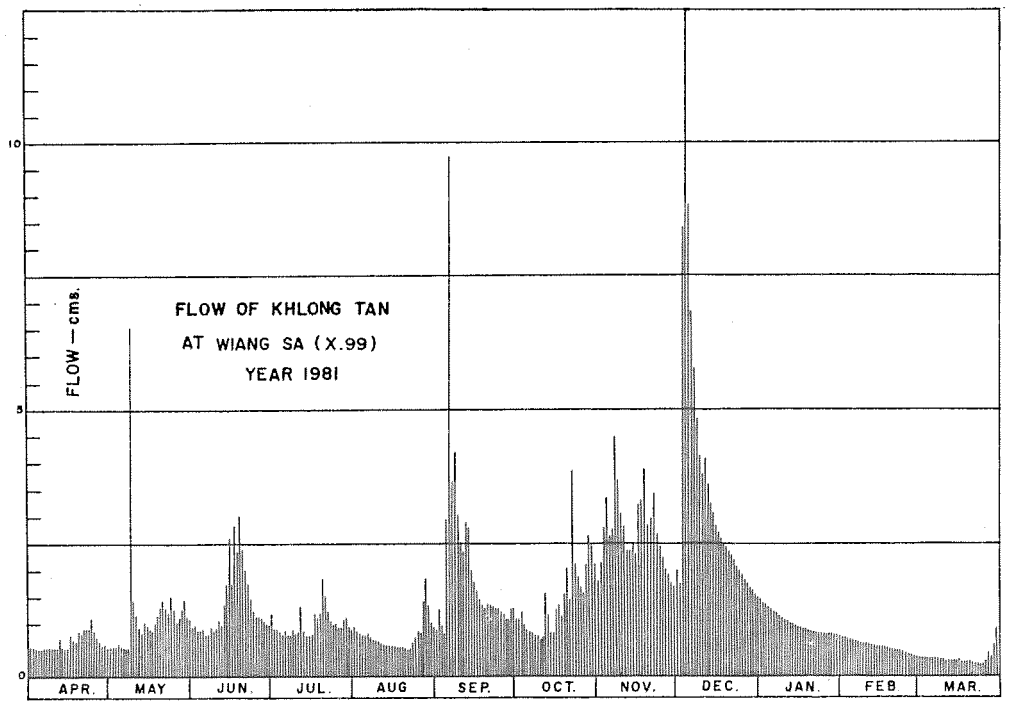
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.39	0.48	0.74	0.49	0.47	0.53	0.68	0.71	0.60	0.44	0.35	
2	0.39	0.39	0.49	0.48	0.47	0.56	0.53	0.75	0.66	0.59	0.44	0.34	
3	0.39	0.38	0.47	0.47	0.45	0.50	0.55	0.88	1.50	0.59	0.43	0.33	
4	0.39	0.40	0.46	0.46	0.45	0.46	0.49	0.93	2.24	0.58	0.43	0.33	
5	0.39	0.40	0.47	0.45	0.45	1.24	0.47	0.82	1.57	0.57	0.43	0.33	
6	0.38	0.39	0.45	0.46	0.46	1.64	0.46	0.83	1.36	0.56	0.43	0.33	
7	0.38	0.39	0.44	0.45	0.45	0.95	0.46	1.08	1.24	0.54	0.42	0.33	
8	0.38	0.39	0.48	0.44	0.43	1.04	0.45	1.01	1.13	0.54	0.42	0.34	
9	0.37	1.32	0.48	0.48	0.43	0.89	0.45	0.89	1.05	0.53	0.41	0.33	
10	0.38	0.64	0.47	0.44	0.43	0.81	0.43	0.87	1.00	0.53	0.41	0.32	
11	0.38	0.55	0.51	0.46	0.41	0.77	0.43	0.81	1.03	0.52	0.41	0.32	
12	0.40	0.50	0.49	0.58	0.41	0.86	0.64	0.77	0.97	0.51	0.40	0.32	
13	0.39	0.47	0.58	0.47	0.40	0.84	0.51	0.93	0.92	0.51	0.40	0.32	
14	0.38	0.52	0.67	0.45	0.40	0.72	0.45	0.78	0.89	0.51	0.39	0.31	
15	0.38	0.49	0.80	0.44	0.39	0.68	0.45	0.76	0.85	0.51	0.39	0.31	
16	0.44	0.47	0.66	0.45	0.39	0.65	0.58	0.91	0.83	0.50	0.39	0.31	
17	0.43	0.46	0.84	0.54	0.38	0.62	0.59	0.92	0.86	0.49	0.38	0.31	
18	0.41	0.50	0.76	0.52	0.38	0.60	0.54	1.00	0.80	0.48	0.38	0.30	
19	0.46	0.54	0.88	0.55	0.37	0.58	0.64	0.91	0.77	0.48	0.38	0.30	
20	0.45	0.56	0.78	0.67	0.38	0.59	0.72	0.83	0.76	0.47	0.38	0.30	
21	0.48	0.60	0.71	0.63	0.39	0.59	0.62	0.87	0.75	0.47	0.37	0.30	
22	0.48	0.58	0.65	0.56	0.39	0.59	1.00	0.94	0.75	0.47	0.37	0.29	
23	0.47	0.55	0.61	0.52	0.41	0.58	0.74	0.82	0.73	0.46	0.37	0.29	
24	0.54	0.62	0.56	0.49	0.45	0.58	0.70	0.79	0.71	0.46	0.37	0.29	
25	0.46	0.56	0.54	0.50	0.46	0.58	0.67	0.75	0.70	0.45	0.36	0.29	
26	0.43	0.54	0.54	0.47	0.45	0.55	0.63	0.72	0.68	0.45	0.36	0.29	
27	0.42	0.50	0.54	0.47	0.61	0.54	0.72	0.70	0.67	0.45	0.36	0.36	
28	0.40	0.57	0.53	0.51	0.68	0.53	0.81	0.68	0.65	0.44	0.35	0.34	
29	0.40	0.61	0.50	0.52	0.59	0.58	0.79	0.68	0.64	0.44		0.34	
30	0.39	0.53	0.49	0.50	0.50	0.58	0.78	0.64	0.62	0.43		0.47	
31		0.52		0.48	0.49		0.73		0.61	0.43		0.35	
MEAN	0.41	0.53	0.58	0.50	0.45	0.71	0.60	0.83	0.92	0.50	0.40	0.32	
MAX	0.54	1.32	0.88	0.74	0.68	1.64	1.00	1.08	2.24	0.60	0.44	0.47	2.24
MIN	0.37	0.38	0.44	0.44	0.37	0.46	0.43	0.64	0.61	0.43	0.35	0.29	0.29

ANNUAL MAX MOMENTARY GAGE HEIGHT — 2.86 M (A.D.), AT 19.00 HOURS, ON DEC 3, 1981

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 — 6.55 M (A.D.), DRAINAGE AREA — 105 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	0.57	0.92	2.19	0.96	0.88	1.12	1.84	2.01	1.40	0.76	0.45	
2	0.57	0.57	0.96	0.92	0.88	1.24	1.12	2.25	1.73	1.36	0.76	0.42	
3	0.57	0.54	0.88	0.88	0.80	1.00	1.20	3.03	8.30	1.36	0.72	0.39	
4	0.57	0.60	0.84	0.84	0.80	0.84	0.96	3.36	16.68	1.32	0.72	0.39	
5	0.57	0.60	0.88	0.80	0.80	5.76	0.88	2.67	9.00	1.28	0.72	0.39	
6	0.54	0.57	0.80	0.84	0.84	9.74	0.84	2.73	6.90	1.24	0.72	0.39	
7	0.54	0.57	0.76	0.80	0.80	3.50	0.84	4.45	5.76	1.16	0.68	0.39	
8	0.54	0.57	0.92	0.76	0.72	4.15	0.80	3.92	4.84	1.16	0.68	0.42	
9	0.51	6.50	0.92	0.92	0.72	3.09	0.80	3.09	4.22	1.12	0.64	0.39	
10	0.54	1.62	0.88	0.76	0.72	2.61	0.72	2.97	3.85	1.12	0.64	0.36	
11	0.54	1.20	1.04	0.84	0.64	2.37	0.72	2.61	4.07	1.08	0.64	0.36	
12	0.60	1.00	0.96	1.32	0.64	2.91	1.62	2.37	3.64	1.04	0.60	0.36	
13	0.57	0.88	1.32	0.88	0.60	2.79	1.04	3.36	3.29	1.04	0.60	0.36	
14	0.54	1.08	1.78	0.80	0.60	2.07	0.80	2.43	3.09	1.04	0.57	0.33	
15	0.54	0.96	2.55	0.76	0.57	1.84	0.80	2.31	2.85	1.04	0.57	0.33	
16	0.76	0.88	1.73	0.80	0.57	1.67	1.32	3.22	2.73	1.00	0.57	0.33	
17	0.72	0.84	2.79	1.16	0.54	1.51	1.36	3.29	2.91	0.96	0.54	0.33	
18	0.64	1.00	2.31	1.08	0.54	1.40	1.16	3.85	2.55	0.92	0.54	0.30	
19	0.84	1.16	3.03	1.20	0.51	1.32	1.62	3.22	2.37	0.92	0.54	0.30	
20	0.80	1.24	2.43	1.78	0.54	1.36	2.07	2.73	2.31	0.88	0.54	0.30	
21	0.92	1.40	2.01	1.57	0.57	1.36	1.51	2.97	2.25	0.88	0.51	0.30	
22	0.92	1.32	1.67	1.24	0.57	1.36	3.85	3.43	2.25	0.88	0.51	0.27	
23	0.88	1.20	1.45	1.08	0.64	1.32	2.19	2.67	2.13	0.84	0.51	0.27	
24	1.16	1.51	1.24	0.96	0.80	1.32	1.95	2.49	2.01	0.84	0.51	0.27	
25	0.84	1.24	1.16	1.00	0.84	1.32	1.78	2.25	1.95	0.80	0.48	0.27	
26	0.72	1.16	1.16	0.88	0.80	1.20	1.57	2.07	1.84	0.80	0.48	0.27	
27	0.68	1.00	1.16	0.88	1.45	1.16	2.07	1.95	1.78	0.80	0.48	0.48	
28	0.60	1.28	1.12	1.04	1.84	1.12	2.61	1.84	1.67	0.76	0.45	0.42	
29	0.60	1.45	1.00	1.08	1.36	1.32	2.49	1.84	1.62	0.76		0.42	
30	0.57	1.12	0.96	1.00	1.00	1.32	2.43	1.62	1.51	0.72		0.88	
31		1.08		0.92	0.96		2.13		1.45	0.72		0.45	
TOTAL	19.99	36.71	41.63	31.98	24.62	64.85	46.37	82.83	113.56	31.24	16.68	11.59	522.05 CMSDAY
MEAN	0.67	1.18	1.39	1.03	0.79	2.16	1.50	2.76	3.66	1.01	0.60	0.37	1.43 CMS
MAX	1.16	6.50	3.03	2.19	1.84	9.74	3.85	4.45	16.68	1.40	0.76	0.88	16.68 CMS
MIN	0.51	0.54	0.76	0.76	0.51	0.84	0.72	1.62	1.45	0.72	0.45	0.27	0.27 CMS
RUNOFF	1.727	3.172	3.597	2.763	2.127	5.603	4.006	7.157	9.812	2.699	1.441	1.001	45.105 MCM

MOMENTARY PEAK 24.58 CMS, AT 2.86 M (A.D), AT 19.00 HOURS, ON DEC 3, 1981
RUNOFF YIELD 13.62 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 234.10 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

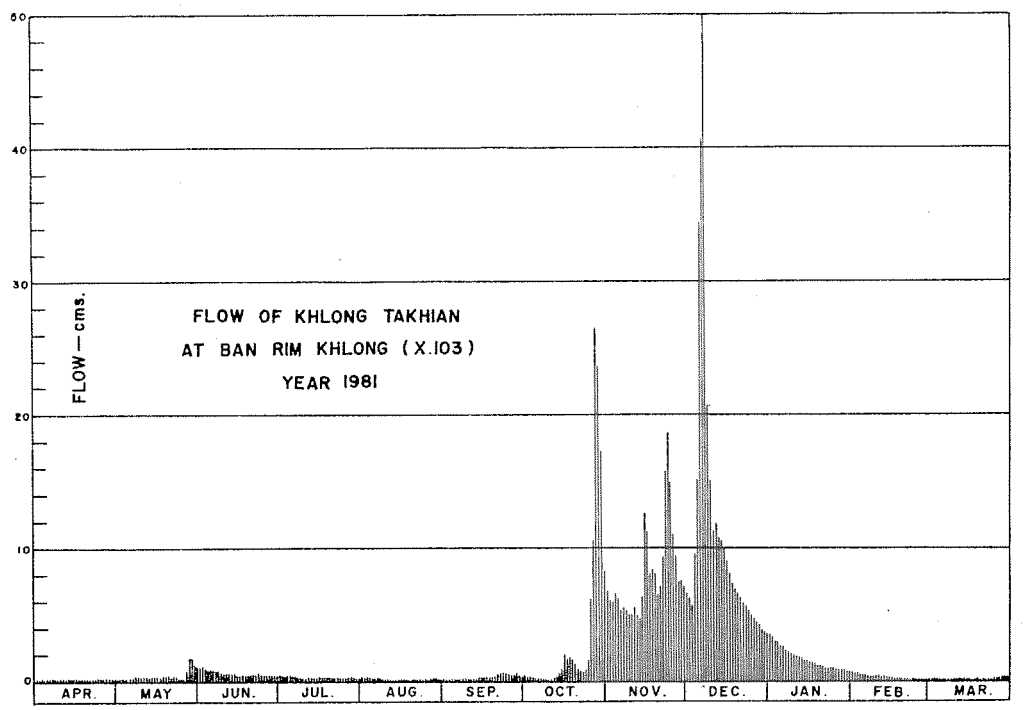
KHLONG TAKHIAN AT BAN RIM KHLONG, SURAT THANI (X.103)

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 AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 113 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.08	0.44	0.23	0.15	0.09	0.21	1.26	1.24	0.82	0.31	0.10	
2	0.08	0.07	0.41	0.23	0.14	0.10	0.21	1.18	1.16	0.79	0.30	0.09	
3	0.08	0.08	0.39	0.22	0.14	0.11	0.20	1.18	1.13	0.76	0.28	0.08	
4	0.08	0.06	0.38	0.21	0.12	0.14	0.19	1.26	1.76	0.73	0.26	0.08	
5	0.08	0.08	0.34	0.20	0.11	0.10	0.18	1.16	2.02	0.70	0.25	0.09	
6	0.08	0.11	0.31	0.19	0.12	0.09	0.17	1.09	3.40	0.68	0.24	0.08	
7	0.08	0.13	0.29	0.18	0.13	0.09	0.15	1.12	4.16	0.66	0.23	0.08	
8	0.08	0.13	0.28	0.17	0.13	0.10	0.14	1.08	2.78	0.64	0.22	0.08	
9	0.08	0.15	0.27	0.17	0.13	0.10	0.15	1.05	2.13	0.62	0.22	0.08	
10	0.07	0.16	0.27	0.17	0.12	0.10	0.14	1.06	1.86	0.60	0.21	0.07	
11	0.07	0.18	0.28	0.18	0.11	0.09	0.14	1.14	1.73	0.58	0.20	0.06	
12	0.07	0.18	0.29	0.17	0.11	0.09	0.16	1.04	1.79	0.56	0.19	0.06	
13	0.07	0.18	0.28	0.17	0.11	0.14	0.20	1.01	1.68	0.54	0.18	0.05	
14	0.08	0.16	0.27	0.17	0.10	0.20	0.36	1.26	1.66	0.53	0.17	0.05	
15	0.08	0.17	0.27	0.17	0.10	0.24	0.38	1.85	1.58	0.51	0.16	0.05	
16	0.08	0.17	0.26	0.16	0.08	0.24	0.61	1.66	1.48	0.50	0.16	0.05	
17	0.09	0.16	0.28	0.16	0.08	0.23	0.54	1.41	1.40	0.48	0.15	0.04	
18	0.09	0.22	0.28	0.15	0.06	0.24	0.56	1.44	1.32	0.46	0.14	0.04	
19	0.08	0.20	0.28	0.15	0.05	0.23	0.48	1.38	1.27	0.45	0.14	0.04	
20	0.11	0.20	0.27	0.15	0.06	0.23	0.42	1.24	1.22	0.44	0.13	0.04	
21	0.10	0.20	0.27	0.18	0.06	0.27	0.38	1.35	1.19	0.42	0.12	0.03	
22	0.10	0.18	0.27	0.16	0.06	0.30	0.36	1.60	1.17	0.41	0.12	0.03	
23	0.10	0.22	0.26	0.15	0.06	0.32	0.33	2.26	1.12	0.40	0.12	0.03	
24	0.14	0.19	0.25	0.15	0.06	0.32	0.33	2.31	1.08	0.38	0.11	0.03	
25	0.12	0.17	0.24	0.14	0.05	0.30	0.59	1.84	1.04	0.36	0.11	0.03	
26	0.10	0.17	0.24	0.16	0.06	0.27	1.28	1.64	1.00	0.38	0.11	0.02	
27	0.10	0.38	0.23	0.14	0.07	0.25	1.84	1.46	0.98	0.34	0.10	0.07	
28	0.09	0.58	0.25	0.14	0.10	0.30	2.76	1.35	0.94	0.33	0.10	0.11	
29	0.07	0.49	0.25	0.16	0.10	0.22	2.51	1.36	0.92	0.32		0.13	
30	0.12	0.44	0.24	0.15	0.12	0.22	1.79	1.30	0.88	0.31		0.15	
31		0.43		0.16	0.10		1.43		0.86	0.30		0.24	
MEAN	0.09	0.20	0.29	0.17	0.10	0.19	0.62	1.38	1.55	0.52	0.18	0.07	
MAX	0.14	0.58	0.44	0.23	0.15	0.32	2.76	2.31	4.16	0.82	0.31	0.24	4.16
MIN	0.07	0.06	0.23	0.14	0.05	0.09	0.14	1.01	0.86	0.30	0.10	0.02	0.02

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.50 M (A.D), AT 4.00 HOURS, ON DEC 7, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.16	0.16	1.20	0.49	0.30	0.18	0.43	6.74	6.56	3.34	0.73	0.20	
2	0.16	0.14	1.05	0.49	0.28	0.20	0.43	6.04	5.88	3.14	0.70	0.18	
3	0.16	0.16	0.97	0.46	0.28	0.22	0.40	6.04	5.64	2.96	0.64	0.16	
4	0.16	0.12	0.94	0.43	0.24	0.28	0.38	6.74	11.56	2.78	0.58	0.16	
5	0.16	0.16	0.82	0.40	0.22	0.20	0.36	5.88	14.66	2.60	0.55	0.18	
6	0.16	0.22	0.73	0.38	0.24	0.18	0.34	5.32	41.10	2.48	0.52	0.16	
7	0.16	0.26	0.67	0.36	0.26	0.18	0.30	5.56	62.86	2.36	0.49	0.16	
8	0.16	0.26	0.64	0.34	0.26	0.20	0.28	5.24	26.80	2.24	0.46	0.16	
9	0.16	0.30	0.61	0.34	0.26	0.20	0.30	5.00	16.09	2.12	0.46	0.16	
10	0.14	0.32	0.61	0.34	0.24	0.20	0.28	5.08	12.72	2.00	0.43	0.14	
11	0.14	0.36	0.64	0.36	0.22	0.18	0.28	5.72	11.23	1.90	0.40	0.12	
12	0.14	0.36	0.67	0.34	0.22	0.18	0.32	4.92	11.89	1.80	0.38	0.12	
13	0.14	0.36	0.64	0.34	0.22	0.28	0.40	4.68	10.70	1.70	0.36	0.10	
14	0.16	0.32	0.61	0.34	0.20	0.40	0.88	6.74	10.50	1.65	0.34	0.10	
15	0.16	0.34	0.61	0.34	0.20	0.52	0.94	12.60	9.70	1.55	0.32	0.10	
16	0.16	0.34	0.58	0.32	0.16	0.52	2.06	10.50	8.72	1.50	0.32	0.10	
17	0.18	0.32	0.64	0.32	0.16	0.49	1.70	8.09	8.00	1.40	0.30	0.08	
18	0.18	0.46	0.64	0.30	0.12	0.52	1.80	8.36	7.28	1.30	0.28	0.08	
19	0.16	0.40	0.64	0.30	0.10	0.49	1.40	7.82	6.83	1.25	0.28	0.08	
20	0.22	0.40	0.61	0.30	0.12	0.49	1.10	6.56	6.38	1.20	0.26	0.08	
21	0.20	0.40	0.61	0.36	0.12	0.61	0.94	7.55	6.12	1.10	0.24	0.06	
22	0.20	0.36	0.61	0.32	0.12	0.70	0.88	9.90	5.96	1.05	0.24	0.06	
23	0.20	0.46	0.58	0.30	0.12	0.76	0.79	17.90	5.56	1.00	0.24	0.06	
24	0.28	0.38	0.55	0.30	0.12	0.76	0.79	18.66	5.24	0.94	0.22	0.06	
25	0.24	0.34	0.52	0.28	0.10	0.70	1.95	12.48	4.92	0.88	0.22	0.06	
26	0.20	0.34	0.52	0.32	0.12	0.61	6.92	10.30	4.60	0.94	0.22	0.04	
27	0.20	0.94	0.49	0.28	0.14	0.55	12.48	8.54	4.46	0.82	0.20	0.14	
28	0.18	1.90	0.55	0.28	0.20	0.70	26.40	7.55	4.18	0.79	0.20	0.22	
29	0.14	1.45	0.55	0.32	0.20	0.46	21.87	7.64	4.04	0.76		0.26	
30	0.24	1.20	0.52	0.30	0.24	0.46	11.89	7.10	3.76	0.73		0.30	
31		1.15		0.32	0.20		8.27		3.62	0.70		0.52	
TOTAL	5.30	14.68	20.02	10.67	5.98	12.42	107.56	241.25	347.56	50.98	10.58	4.40	831.40 CMSDAY
MEAN	0.18	0.47	0.67	0.34	0.19	0.41	3.47	8.04	11.21	1.64	0.38	0.14	2.28 CMS
MAX	0.28	1.90	1.20	0.49	0.30	0.76	26.40	18.66	62.86	3.34	0.73	0.52	62.86 CMS
MIN	0.14	0.12	0.49	0.28	0.10	0.18	0.28	4.68	3.62	0.70	0.20	0.04	0.04 CMS
RUNOFF	0.458	1.268	1.730	0.922	0.517	1.073	9.293	20.844	30.029	4.405	0.914	0.380	71.833 MCM

MOMENTARY PEAK 73.60 CMS, AT 4.50 M (A.D), AT 4.00 HOURS, ON DEC 7, 1981

RUNOFF YIELD 12.65 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 408.89 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 21 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

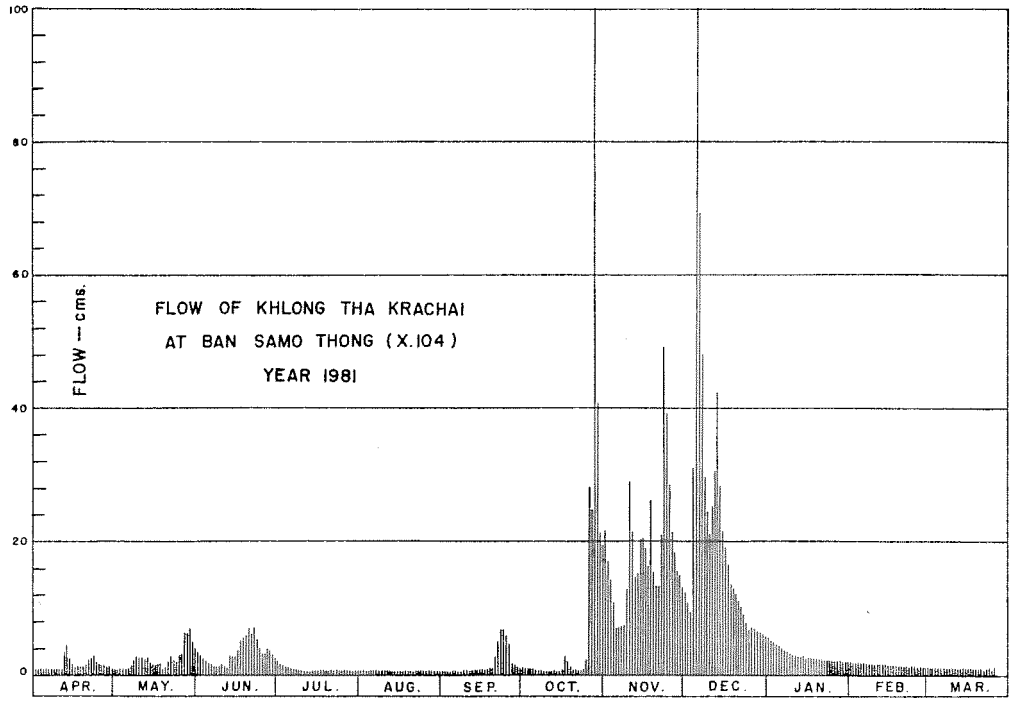
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 42 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.58	0.58	0.82	0.70	0.57	0.57	0.65	1.63	1.30	0.95	0.71	0.62	
2	0.58	0.58	0.81	0.68	0.57	0.56	0.64	1.42	1.24	0.95	0.71	0.62	
3	0.58	0.58	0.75	0.66	0.57	0.55	0.64	1.37	1.16	0.93	0.71	0.62	
4	0.58	0.58	0.71	0.65	0.57	0.55	0.62	1.28	1.81	0.90	0.71	0.62	
5	0.58	0.59	0.69	0.64	0.57	0.55	0.58	1.00	2.65	0.89	0.71	0.61	
6	0.58	0.60	0.68	0.63	0.57	0.54	0.57	1.07	3.35	0.88	0.70	0.61	
7	0.58	0.65	0.67	0.62	0.57	0.55	0.56	1.05	2.30	0.87	0.70	0.61	
8	0.58	0.72	0.65	0.60	0.56	0.55	0.55	1.08	1.92	0.85	0.70	0.61	
9	0.58	0.79	0.64	0.60	0.56	0.55	0.54	1.25	1.71	0.84	0.69	0.61	
10	0.58	0.74	0.67	0.59	0.55	0.55	0.54	1.83	1.59	0.83	0.69	0.61	
11	0.61	0.76	0.66	0.59	0.55	0.55	0.54	1.70	1.61	0.82	0.68	0.61	
12	0.79	0.75	0.67	0.59	0.55	0.54	0.55	1.37	1.83	0.80	0.68	0.61	
13	0.90	0.75	0.77	0.59	0.55	0.56	0.54	1.38	2.19	0.80	0.68	0.61	
14	0.73	0.69	0.76	0.58	0.55	0.57	0.53	1.57	1.81	0.79	0.67	0.61	
15	0.70	0.66	0.76	0.58	0.54	0.58	0.60	1.57	1.61	0.79	0.67	0.61	
16	0.65	0.66	0.80	0.58	0.54	0.60	0.80	1.54	1.51	0.78	0.67	0.60	
17	0.64	0.67	0.93	0.58	0.54	0.60	0.73	1.43	1.44	0.77	0.66	0.60	
18	0.64	0.68	0.94	0.58	0.54	0.60	0.68	1.76	1.34	0.76	0.66	0.60	
19	0.63	0.64	0.96	0.58	0.53	0.61	0.62	1.43	1.31	0.76	0.66	0.60	
20	0.65	0.60	1.03	0.58	0.54	0.64	0.59	1.33	1.29	0.76	0.66	0.60	
21	0.75	0.72	0.97	0.57	0.55	0.81	0.57	1.31	1.26	0.76	0.65	0.60	
22	0.75	0.77	1.03	0.57	0.56	0.96	0.57	1.45	1.20	0.75	0.65	0.60	
23	0.77	0.74	0.92	0.57	0.58	1.03	0.56	2.35	1.15	0.75	0.65	0.60	
24	0.69	0.70	0.85	0.57	0.58	1.00	0.58	2.01	1.12	0.74	0.64	0.60	
25	0.67	0.78	0.82	0.57	0.59	0.97	0.82	1.88	1.00	0.74	0.64	0.60	
26	0.66	0.77	0.82	0.57	0.55	0.85	1.81	1.62	1.07	0.73	0.63	0.60	
27	0.65	0.97	0.86	0.57	0.57	0.72	1.70	1.48	1.04	0.73	0.62	0.70	
28	0.64	0.96	0.85	0.57	0.58	0.68	3.35	1.40	1.01	0.72	0.62	0.62	
29	0.63	1.01	0.79	0.57	0.57	0.66	2.03	1.36	0.99	0.72		0.70	
30	0.59	0.93	0.75	0.57	0.55	0.65	1.62	1.33	0.98	0.72		0.69	
31		0.85		0.57	0.55		1.53		0.96	0.71		0.82	
MEAN	0.65	0.72	0.80	0.60	0.56	0.66	0.88	1.47	1.51	0.80	0.67	0.62	
MAX	0.90	1.01	1.03	0.70	0.59	1.03	3.35	2.35	3.35	0.95	0.71	0.82	3.35
MIN	0.58	0.58	0.64	0.57	0.53	0.54	0.53	1.00	0.96	0.71	0.62	0.60	0.53

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.03 M (A.D), AT 12.00 HOURS, ON OCT 28, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.90	0.90	3.60	2.00	0.85	0.85	1.50	22.46	13.00	5.80	2.13	1.20	
2	0.90	0.90	3.45	1.80	0.85	0.80	1.40	16.10	11.50	5.80	2.13	1.20	
3	0.90	0.90	2.65	1.60	0.85	0.75	1.40	14.75	9.50	5.40	2.13	1.20	
4	0.90	0.90	2.13	1.50	0.85	0.75	1.20	12.50	28.35	4.80	2.13	1.20	
5	0.90	0.95	1.90	1.40	0.85	0.75	0.90	6.80	62.85	4.65	2.13	1.10	
6	0.90	1.00	1.80	1.30	0.85	0.70	0.85	7.64	101.50	4.50	2.00	1.10	
7	0.90	1.50	1.70	1.20	0.85	0.75	0.80	7.40	47.20	4.35	2.00	1.10	
8	0.90	2.26	1.50	1.00	0.80	0.75	0.75	7.76	32.24	4.05	2.00	1.10	
9	0.90	3.17	1.40	1.00	0.80	0.75	0.70	11.75	25.03	3.90	1.90	1.10	
10	0.90	2.52	1.70	0.95	0.75	0.75	0.70	29.05	21.20	3.75	1.90	1.10	
11	1.10	2.78	1.60	0.95	0.75	0.75	0.70	24.70	21.82	3.60	1.80	1.10	
12	3.17	2.65	1.70	0.95	0.75	0.70	0.75	14.75	29.05	3.30	1.80	1.10	
13	4.80	2.65	2.91	0.95	0.75	0.80	0.70	15.00	42.60	3.30	1.80	1.10	
14	2.39	1.90	2.78	0.90	0.75	0.85	0.65	20.60	28.35	3.17	1.70	1.10	
15	2.00	1.60	2.78	0.90	0.70	0.90	1.00	20.60	21.82	3.17	1.70	1.10	
16	1.50	1.60	3.30	0.90	0.70	1.00	3.30	19.70	18.80	3.04	1.70	1.00	
17	1.40	1.70	5.40	0.90	0.70	1.00	2.39	16.40	16.70	2.91	1.60	1.00	
18	1.40	1.80	5.60	0.90	0.70	1.00	1.80	26.68	14.00	2.78	1.60	1.00	
19	1.30	1.40	6.00	0.90	0.65	1.10	1.20	16.40	13.25	2.78	1.60	1.00	
20	1.50	1.00	7.16	0.90	0.70	1.40	0.95	13.75	12.75	2.78	1.60	1.00	
21	2.65	2.26	6.20	0.85	0.75	3.45	0.85	13.25	12.00	2.78	1.50	1.00	
22	2.65	2.91	7.16	0.85	0.80	6.00	0.85	17.00	10.50	2.65	1.50	1.00	
23	2.91	2.52	5.20	0.85	0.90	7.16	0.80	49.35	9.25	2.65	1.50	1.00	
24	1.90	2.00	4.05	0.85	0.90	6.80	0.90	35.58	8.50	2.52	1.40	1.00	
25	1.70	3.04	3.60	0.85	0.95	6.20	3.60	30.80	6.80	2.52	1.40	1.00	
26	1.60	2.91	3.60	0.85	0.75	4.05	28.35	22.14	7.64	2.39	1.30	1.00	
27	1.50	6.20	4.20	0.85	0.85	2.26	24.70	17.90	7.28	2.39	1.20	2.00	
28	1.40	6.00	4.05	0.85	0.90	1.80	101.50	15.50	6.92	2.26	1.20	1.20	
29	1.30	6.92	3.17	0.85	0.85	1.60	36.34	14.50	6.60	2.26		2.00	
30	0.95	5.40	2.65	0.85	0.75	1.50	22.14	13.75	6.40	2.26		1.90	
31		4.05		0.85	0.75		19.40		6.00	2.13		3.60	
TOTAL	48.12	78.29	104.94	32.25	24.60	57.92	263.07	554.56	659.40	104.64	48.35	38.60	2014.74 CMSDAY
MEAN	1.60	2.53	3.50	1.04	0.79	1.93	8.49	18.49	21.27	3.38	1.73	1.25	5.52 CMS
MAX	4.80	6.92	7.16	2.00	0.95	7.16	101.50	49.35	101.50	5.80	2.13	3.60	101.50 CMS
MIN	0.90	0.90	1.40	0.85	0.65	0.70	0.65	6.80	6.00	2.13	1.20	1.00	0.65 CMS
RUNOFF	4.158	6.764	9.067	2.786	2.125	5.004	22.729	47.914	56.972	9.041	4.177	3.335	174.073 MCM

MOMENTARY PEAK 144.45 CMS, AT 4.03 M (A.D), AT 12.00 HOURS, ON OCT 28, 1981
RUNOFF YIELD 15.59 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 408.05 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 38 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

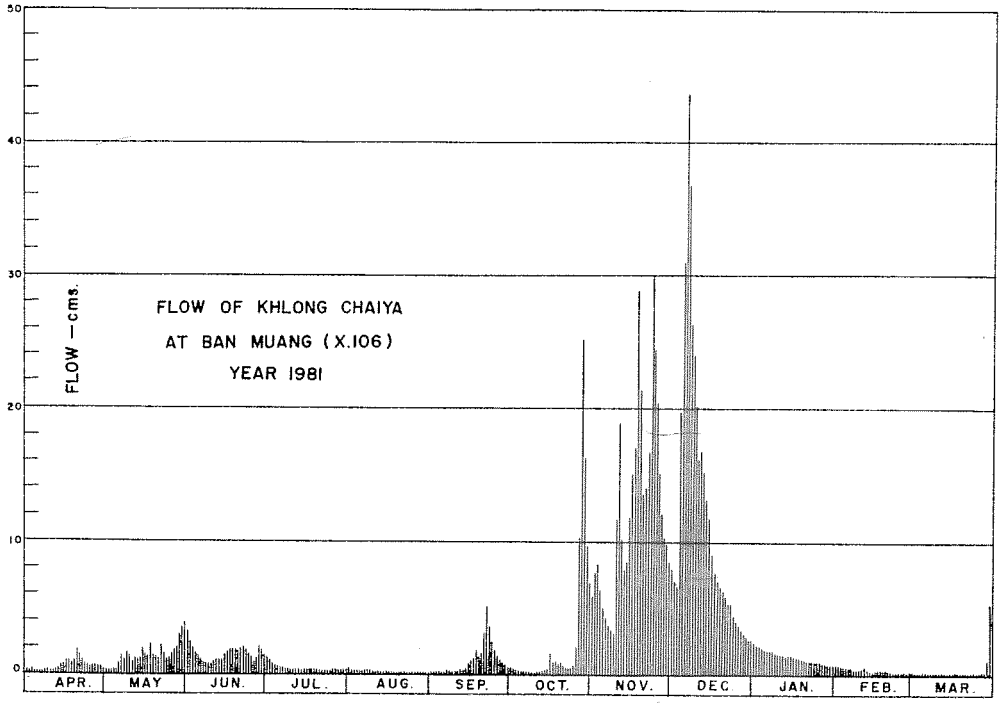
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.17	0.76	0.40	0.13	0.13	0.24	0.99	1.16	0.64	0.28	0.18	
2	0.05	0.16	0.62	0.35	0.12	0.12	0.21	1.18	1.08	0.62	0.27	0.16	
3	0.05	0.14	0.57	0.31	0.12	0.14	0.19	1.21	1.07	0.62	0.27	0.16	
4	0.05	0.14	0.50	0.28	0.12	0.16	0.16	1.08	2.28	0.59	0.27	0.16	
5	0.05	0.13	0.46	0.26	0.12	0.14	0.15	0.90	2.62	0.58	0.26	0.15	
6	0.05	0.32	0.39	0.23	0.12	0.13	0.13	0.81	3.21	0.56	0.32	0.15	
7	0.05	0.47	0.36	0.21	0.12	0.12	0.12	0.78	3.14	0.54	0.29	0.15	
8	0.05	0.39	0.31	0.21	0.20	0.12	0.11	0.73	2.63	0.53	0.24	0.15	
9	0.05	0.50	0.29	0.19	0.16	0.15	0.10	0.68	2.23	0.53	0.22	0.15	
10	0.05	0.45	0.32	0.16	0.13	0.15	0.10	1.63	1.91	0.49	0.21	0.15	
11	0.10	0.38	0.33	0.18	0.12	0.12	0.10	1.95	1.78	0.47	0.27	0.14	
12	0.10	0.38	0.40	0.16	0.12	0.12	0.10	1.34	1.83	0.46	0.27	0.15	
13	0.20	0.43	0.40	0.15	0.12	0.17	0.10	1.18	1.65	0.45	0.19	0.15	
14	0.28	0.39	0.37	0.15	0.12	0.17	0.21	1.26	1.53	0.46	0.19	0.15	
15	0.30	0.55	0.45	0.14	0.12	0.37	0.22	1.60	1.45	0.48	0.18	0.15	
16	0.37	0.50	0.52	0.13	0.11	0.41	0.49	1.71	1.35	0.47	0.19	0.15	
17	0.36	0.46	0.52	0.13	0.11	0.51	0.37	1.86	1.26	0.46	0.25	0.14	
18	0.36	0.62	0.55	0.15	0.11	0.55	0.39	2.50	1.16	0.43	0.25	0.11	
19	0.28	0.48	0.51	0.16	0.11	0.45	0.32	2.06	1.07	0.42	0.24	0.11	
20	0.56	0.42	0.52	0.15	0.11	0.51	0.29	1.60	1.06	0.42	0.24	0.11	
21	0.49	0.42	0.52	0.13	0.11	0.70	0.26	1.64	1.03	0.41	0.21	0.11	
22	0.41	0.60	0.55	0.13	0.13	0.92	0.23	1.86	0.99	0.39	0.21	0.11	
23	0.31	0.48	0.56	0.13	0.12	0.75	0.22	2.56	0.94	0.38	0.18	0.11	
24	0.25	0.42	0.49	0.13	0.14	0.64	0.23	2.25	0.94	0.37	0.19	0.11	
25	0.25	0.46	0.45	0.14	0.12	0.52	0.30	2.16	0.83	0.35	0.18	0.11	
26	0.28	0.45	0.39	0.16	0.12	0.44	0.69	1.70	0.80	0.35	0.17	0.11	
27	0.26	0.56	0.35	0.13	0.14	0.37	1.52	1.49	0.76	0.35	0.17	0.11	
28	0.25	0.61	0.56	0.19	0.14	0.32	2.31	1.35	0.71	0.36	0.20	0.11	
29	0.22	0.75	0.54	0.19	0.13	0.31	1.88	1.33	0.68	0.33		0.11	
30	0.17	0.80	0.46	0.17	0.15	0.26	1.33	1.22	0.67	0.32		0.96	
31		0.81		0.13	0.14		1.08		0.64	0.34		0.80	
MEAN	0.21	0.45	0.47	0.18	0.13	0.33	0.46	1.49	1.43	0.46	0.23	0.18	
MAX	0.56	0.81	0.76	0.40	0.20	0.92	2.31	2.56	3.21	0.64	0.32	0.96	3.21
MIN	0.04	0.13	0.29	0.13	0.11	0.12	0.10	0.68	0.64	0.32	0.17	0.11	0.04

ANNUAL MAX MOMENTARY GAGE HEIGHT — 3.23 M (A.D), AT 18.00 HOURS, ON DEC 6, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.24	3.48	1.00	0.16	0.16	0.42	5.70	7.72	2.52	0.54	0.26	
2	0.05	0.22	2.36	0.80	0.14	0.14	0.33	7.96	6.76	2.36	0.51	0.22	
3	0.05	0.18	2.02	0.64	0.14	0.18	0.28	8.32	6.64	2.36	0.51	0.22	
4	0.05	0.18	1.60	0.54	0.14	0.22	0.22	6.76	24.64	2.14	0.51	0.22	
5	0.05	0.16	1.36	0.48	0.14	0.18	0.20	4.80	31.20	2.08	0.48	0.20	
6	0.05	0.68	0.96	0.39	0.14	0.16	0.16	3.90	43.62	1.96	0.68	0.20	
7	0.05	1.42	0.84	0.33	0.14	0.14	0.14	3.64	35.48	1.84	0.57	0.20	
8	0.05	0.96	0.64	0.33	0.30	0.14	0.12	3.24	26.24	1.78	0.42	0.20	
9	0.05	1.60	0.57	0.28	0.22	0.20	0.10	2.84	23.80	1.78	0.36	0.20	
10	0.05	1.30	0.68	0.22	0.16	0.20	0.10	14.02	18.16	1.54	0.33	0.20	
11	0.10	0.92	0.72	0.26	0.14	0.14	0.10	18.80	16.12	1.42	0.51	0.18	
12	0.10	0.92	1.00	0.22	0.14	0.14	0.10	9.96	16.88	1.36	0.51	0.20	
13	0.30	1.18	1.00	0.20	0.14	0.24	0.10	7.96	14.30	1.30	0.28	0.20	
14	0.54	0.96	0.88	0.20	0.14	0.24	0.33	8.92	12.62	1.36	0.28	0.20	
15	0.60	1.90	1.30	0.18	0.14	0.88	0.36	13.60	11.50	1.48	0.26	0.20	
16	0.88	1.60	1.72	0.16	0.12	1.06	1.54	15.14	10.10	1.42	0.28	0.20	
17	0.84	1.36	1.72	0.16	0.12	1.66	0.88	17.36	8.92	1.36	0.45	0.18	
18	0.84	2.36	1.90	0.20	0.12	1.90	0.96	28.80	7.72	1.18	0.45	0.12	
19	0.54	1.48	1.66	0.22	0.12	1.30	0.68	20.68	6.64	1.12	0.42	0.12	
20	1.96	1.12	1.72	0.20	0.12	1.66	0.57	13.60	6.52	1.12	0.42	0.12	
21	1.54	1.12	1.72	0.16	0.12	3.00	0.48	14.16	6.16	1.06	0.33	0.12	
22	1.06	2.20	1.90	0.16	0.16	5.00	0.39	17.36	5.70	0.96	0.33	0.12	
23	0.64	1.48	1.96	0.16	0.14	3.40	0.36	30.00	5.20	0.92	0.26	0.12	
24	0.45	1.12	1.54	0.16	0.18	2.52	0.39	24.10	5.20	0.88	0.28	0.12	
25	0.45	1.36	1.30	0.18	0.14	1.72	0.60	22.48	4.10	0.80	0.26	0.12	
26	0.54	1.30	0.96	0.22	0.14	1.24	2.92	15.00	3.80	0.80	0.24	0.12	
27	0.48	1.96	0.80	0.16	0.18	0.88	12.48	12.06	3.48	0.80	0.24	0.12	
28	0.45	2.28	1.96	0.28	0.18	0.68	25.18	10.10	3.08	0.84	0.30	0.12	
29	0.36	3.40	1.84	0.28	0.16	0.64	17.68	9.82	2.84	0.72		0.12	
30	0.24	3.80	1.36	0.24	0.20	0.48	9.82	8.44	2.76	0.68		5.40	
31		3.90		0.16	0.18		6.76		2.52	0.76		3.80	
TOTAL	13.40	44.66	43.47	9.17	4.76	30.50	84.75	379.52	380.42	42.70	11.01	14.12	1058.48 CMSDAY
MEAN	0.45	1.44	1.45	0.30	0.15	1.02	2.73	12.65	12.27	1.38	0.39	0.46	2.90 CMS
MAX	1.96	3.90	3.48	1.00	0.30	5.00	25.18	30.00	43.62	2.52	0.68	5.40	43.62 CMS
MIN	0.04	0.16	0.57	0.16	0.12	0.14	0.10	2.84	2.52	0.68	0.24	0.12	0.04 CMS
RUNOFF	1.158	3.859	3.756	0.792	0.411	2.635	7.322	32.790	32.868	3.689	0.951	1.220	91.452 MCM

MOMENTARY PEAK 44.06 CMS, AT 3.23 M (A.D), AT 18.00 HOURS, ON DEC 6, 1981

RUNOFF YIELD 9.38 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 142.59 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

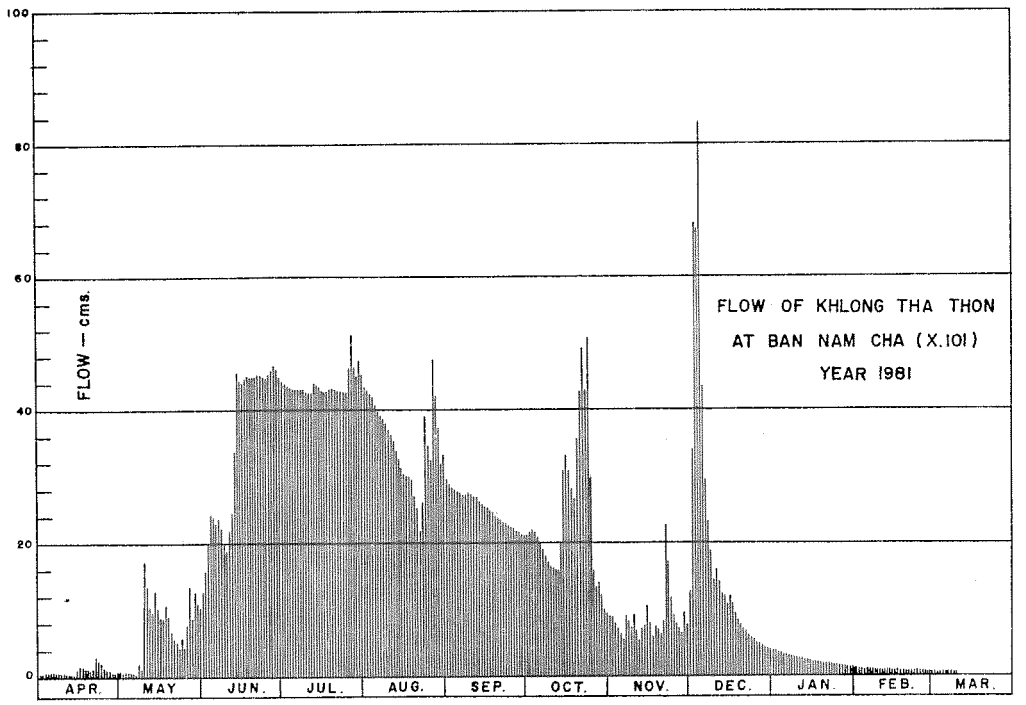
GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 46 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — NO RECORDS DURING MAR.1-31,1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.47	0.51	1.32	2.29	2.27	1.87	1.62	1.10	1.36	0.81	0.61	*******	
2	0.48	0.50	1.43	2.28	2.25	1.86	1.63	1.07	1.96	0.81	0.61	*******	
3	0.52	0.50	1.60	2.27	2.23	1.84	1.63	1.03	2.85	0.80	0.61	*******	
4	0.50	0.50	1.71	2.27	2.23	1.83	1.61	0.98	2.83	0.79	0.61	*******	
5	0.48	0.50	1.69	2.26	2.11	1.82	1.60	0.95	3.16	0.78	0.61	*******	
6	0.48	0.51	1.67	2.26	2.19	1.82	1.55	0.94	2.19	0.77	0.61	*******	
7	0.47	0.56	1.70	2.26	2.17	1.81	1.51	1.10	1.81	0.76	0.60	*******	
8	0.47	0.70	1.64	2.26	2.15	1.80	1.48	1.10	1.60	0.75	0.60	*******	
9	0.47	0.58	1.56	2.26	2.13	1.82	1.44	1.01	1.46	0.75	0.60	*******	
10	0.46	1.49	1.52	2.25	2.11	1.81	1.43	1.10	1.36	0.74	0.60	*******	
11	0.46	1.26	1.64	2.24	2.08	1.79	1.42	0.97	1.41	0.73	0.59	*******	
12	0.49	1.15	1.72	2.24	2.04	1.78	1.41	0.91	1.31	0.73	0.59	*******	
13	0.48	1.13	2.06	2.28	2.01	1.77	1.42	1.02	1.26	0.72	0.59	*******	
14	0.49	1.31	2.32	2.27	1.97	1.76	1.94	1.03	1.26	0.72	0.59	*******	
15	0.59	1.15	2.28	2.26	1.96	1.75	1.96	1.17	1.19	0.70	0.58	*******	
16	0.64	1.08	2.29	2.25	1.93	1.75	1.97	1.02	1.25	0.71	0.58	*******	
17	0.65	1.08	2.30	2.25	1.90	1.74	1.91	0.94	1.19	0.70	0.58	*******	
18	0.62	1.19	2.30	2.25	1.89	1.73	1.82	1.03	1.11	0.69	0.58	*******	
19	0.59	1.09	2.30	2.26	1.89	1.73	1.79	0.98	1.06	0.69	0.58	*******	
20	0.58	0.96	2.30	2.26	1.79	1.69	2.15	0.95	1.03	0.69	0.57	*******	
21	0.63	0.94	2.30	2.26	1.68	1.66	2.26	1.10	0.99	0.68	0.57	*******	
22	0.77	0.90	2.30	2.26	1.65	1.67	2.41	1.65	0.98	0.68	0.57	*******	
23	0.71	0.84	2.30	2.25	1.88	1.69	2.25	1.32	0.96	0.67	0.57	*******	
24	0.66	0.94	2.30	2.25	2.16	1.72	2.45	1.15	0.92	0.67	0.56	*******	
25	0.59	0.98	2.31	2.25	2.01	1.70	1.51	1.13	0.89	0.67	0.56	*******	
26	0.54	1.11	2.32	2.25	1.96	1.68	1.39	1.02	0.87	0.66	0.56	*******	
27	0.53	1.32	2.33	2.47	2.38	1.66	1.31	0.99	0.86	0.66	0.55	*******	
28	0.52	1.09	2.35	2.34	2.21	1.64	1.33	0.97	0.84	0.66	0.55	*******	
29	0.51	1.28	2.33	2.31	2.11	1.63	1.23	1.13	0.83	0.65		*******	
30	0.51	1.18	2.31	2.36	1.95	1.60	1.14	1.04	0.83	0.65		*******	
31		1.16		2.30	1.99		1.12		0.82	0.65		*******	
MEAN	0.55	0.95	2.02	2.27	2.04	1.75	1.67	1.06	1.37	0.71	0.58	*******	
MAX	0.77	1.49	2.35	2.47	2.38	1.87	2.45	1.65	3.16	0.81	0.61	*******	3.16
MIN	0.46	0.50	1.32	2.24	1.65	1.60	1.12	0.91	0.82	0.65	0.55	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.62 M (A.D), AT 6.00 HOURS, ON DEC 5, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.35	0.55	13.50	44.10	43.30	29.10	21.60	9.00	14.50	3.65	1.10	*******	
2	0.40	0.50	16.25	43.70	42.50	28.80	21.90	8.40	32.10	3.65	1.10	*******	
3	0.60	0.50	21.00	43.30	41.70	28.20	21.90	7.60	67.75	3.50	1.10	*******	
4	0.50	0.50	24.30	43.30	41.70	27.90	21.30	6.60	66.85	3.35	1.10	*******	
5	0.40	0.50	23.70	42.90	37.35	27.60	21.00	6.00	83.00	3.20	1.10	*******	
6	0.40	0.55	23.10	42.90	40.15	27.60	19.50	5.80	40.15	3.05	1.10	*******	
7	0.35	0.80	24.00	42.90	39.45	27.30	18.30	9.00	27.30	2.90	1.00	*******	
8	0.35	2.00	22.20	42.90	38.75	27.00	17.50	9.00	21.00	2.75	1.00	*******	
9	0.35	0.90	19.80	42.90	38.05	27.60	16.50	7.20	17.00	2.75	1.00	*******	
10	0.30	17.75	18.60	42.50	37.35	27.30	16.25	9.00	14.50	2.60	1.00	*******	
11	0.30	12.20	22.20	42.10	36.30	26.70	16.00	6.40	15.75	2.45	0.95	*******	
12	0.45	10.00	24.60	42.10	34.90	26.40	15.75	5.20	13.25	2.45	0.95	*******	
13	0.40	9.60	35.60	43.70	33.85	26.10	16.00	7.40	12.20	2.30	0.95	*******	
14	0.45	13.25	45.30	43.30	32.45	25.80	31.40	7.60	12.20	2.30	0.95	*******	
15	0.95	10.00	43.70	42.90	32.10	25.50	32.10	10.40	10.80	2.00	0.90	*******	
16	1.40	8.60	44.10	42.50	31.05	25.50	32.45	7.40	12.00	2.15	0.90	*******	
17	1.50	8.60	44.50	42.50	30.00	25.20	30.35	5.80	10.80	2.00	0.90	*******	
18	1.20	10.80	44.50	42.50	29.70	24.90	27.60	7.60	9.20	1.90	0.90	*******	
19	0.95	8.80	44.50	42.90	29.70	24.90	26.70	6.60	8.20	1.90	0.90	*******	
20	0.90	6.20	44.50	42.90	26.70	23.70	38.75	6.00	7.60	1.90	0.85	*******	
21	1.30	5.80	44.50	42.90	23.40	22.80	42.90	9.00	6.80	1.80	0.85	*******	
22	3.05	5.00	44.50	42.90	22.50	23.10	48.90	22.50	6.60	1.80	0.85	*******	
23	2.15	4.10	44.50	42.50	29.40	23.70	42.50	13.50	6.20	1.70	0.85	*******	
24	1.60	5.80	44.50	42.50	39.10	24.60	50.50	10.00	5.40	1.70	0.80	*******	
25	0.95	6.60	44.90	42.50	33.85	24.00	18.30	9.60	4.85	1.70	0.80	*******	
26	0.70	9.20	45.30	42.50	32.10	23.40	15.25	7.40	4.55	1.60	0.80	*******	
27	0.65	13.50	45.70	51.30	47.70	22.80	13.25	6.80	4.40	1.60	0.75	*******	
28	0.60	8.80	46.50	46.10	40.90	22.20	13.75	6.40	4.10	1.60	0.75	*******	
29	0.55	12.60	45.70	44.90	37.35	21.90	11.60	9.60	3.95	1.50		*******	
30	0.55	10.60	44.90	46.90	31.75	21.00	9.80	7.80	3.95	1.50		*******	
31		10.20		44.50	33.15		9.40		3.80	1.50		*******	
TOTAL	24.60	214.80	1050.95	1348.30	1088.25	762.60	739.00	250.60	550.75	70.75	26.20	*******	******* CMSDAY
MEAN	0.82	6.93	35.03	43.49	35.10	25.42	23.84	8.35	17.77	2.28	0.94	*******	******* CMS
MAX	3.05	17.75	46.50	51.30	47.70	29.10	50.50	22.50	83.00	3.65	1.10	*******	83.00 CMS
MIN	0.30	0.50	13.50	42.10	22.80	21.00	9.40	5.20	3.80	1.50	0.75	*******	******* CMS
RUNOFF	2.125	18.559	90.802	116.493	94.025	65.889	63.850	21.652	47.585	6.113	2.264	*******	******* MCM

MOMENTARY PEAK 160.20 CMS, AT 4.62 M (A.D), AT 6.00 HOURS, ON DEC 5, 1981
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1686.32 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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 — RATHER UNSTABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 187 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

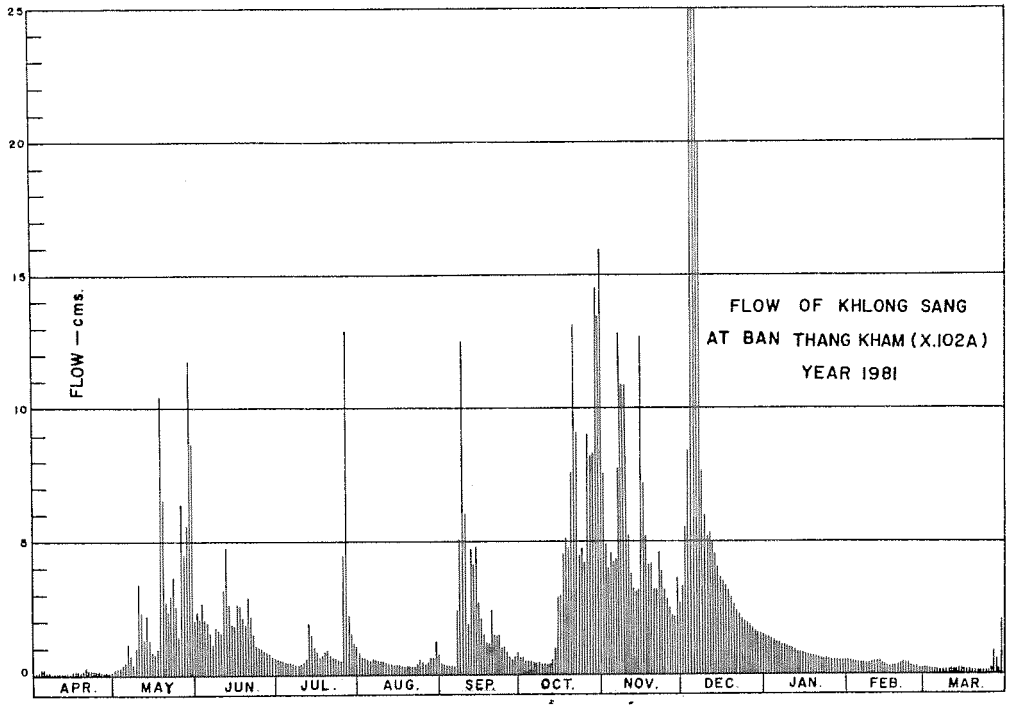
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	23.92	24.00	24.58	24.12	24.18	24.07	24.15	25.71	24.78	24.35	24.09	24.00	
2	23.89	23.97	24.51	24.11	24.15	24.05	24.12	25.14	25.31	24.34	24.09	24.00	
3	24.00	24.03	24.68	24.10	24.14	24.04	24.11	24.98	25.75	24.33	24.09	23.98	
4	24.00	24.05	24.50	24.08	24.13	24.03	24.11	25.09	27.88	24.33	24.09	23.98	
5	23.95	24.07	24.49	24.07	24.11	24.03	24.11	25.01	28.42	24.32	24.09	23.96	
6	23.92	24.29	24.40	24.06	24.11	24.02	24.09	25.03	27.98	24.31	24.08	23.98	
7	23.88	24.15	24.28	24.06	24.10	24.63	24.09	26.31	26.96	24.30	24.07	24.00	
8	23.91	24.03	24.43	24.04	24.09	25.69	24.08	26.08	25.66	24.28	24.06	23.98	
9	23.92	24.31	24.43	24.04	24.08	26.27	24.07	26.08	25.38	24.26	24.06	23.98	
10	23.91	24.84	24.38	24.07	24.08	25.24	24.06	25.35	25.22	24.25	24.06	23.97	
11	23.92	24.57	24.75	24.09	24.06	24.47	24.05	25.02	25.24	24.25	24.10	23.98	
12	23.92	24.31	25.11	24.13	24.05	25.10	24.08	24.84	25.20	24.24	24.11	23.98	
13	23.92	24.55	24.67	24.50	24.05	25.00	24.97	24.79	25.07	24.23	24.12	24.00	
14	23.97	24.26	24.49	24.36	24.03	25.14	24.18	24.79	24.98	24.22	24.08	24.00	
15	23.99	24.21	24.45	24.27	24.03	24.69	24.73	26.29	24.91	24.20	24.06	23.99	
16	23.99	24.17	24.67	24.21	24.03	24.59	24.76	25.67	24.88	24.20	24.05	23.98	
17	23.95	24.19	24.67	24.13	24.02	24.38	25.05	25.27	24.84	24.18	24.04	23.97	
18	23.93	26.01	24.54	24.16	24.01	24.30	25.19	25.00	24.78	24.16	24.03	23.96	
19	23.94	25.68	24.48	24.18	24.03	24.28	25.13	25.01	24.73	24.14	24.04	23.96	
20	24.68	24.61	24.74	24.22	24.01	24.61	25.63	24.80	24.65	24.14	24.04	23.95	
21	24.46	24.58	24.53	24.16	24.01	24.39	26.35	24.80	24.61	24.13	24.06	23.95	
22	24.23	24.79	24.37	24.13	24.01	24.35	26.15	25.10	24.57	24.13	24.06	23.95	
23	24.23	24.89	24.29	24.12	24.00	24.37	25.06	25.02	24.52	24.13	24.07	23.94	
24	24.08	24.50	24.27	24.11	24.11	24.27	25.11	24.84	24.51	24.12	24.07	23.93	
25	24.05	24.34	24.23	24.09	24.09	24.25	25.02	24.75	24.49	24.12	24.03	23.93	
26	23.98	25.42	24.22	25.77	24.05	24.20	25.92	24.63	24.47	24.11	24.01	23.93	
27	23.95	25.05	24.23	26.31	24.08	24.17	25.57	24.57	24.44	24.11	24.00	24.24	
28	23.93	25.31	24.18	24.52	24.15	24.15	25.57	24.54	24.43	24.10	24.00	24.07	
29	23.93	26.19	24.16	24.40	24.15	24.15	26.83	24.89	24.41	24.10		24.01	
30	23.97	25.93	24.15	24.29	24.30	24.19	26.79	24.69	24.40	24.09		24.52	
31		24.76		24.24	24.11		26.88		24.37	24.09		24.40	
MEAN	24.01	24.65	24.46	24.29	24.08	24.50	24.97	25.14	25.22	24.20	24.06	24.02	
MAX	24.68	26.19	25.11	26.31	24.30	26.27	26.88	26.31	28.42	24.35	24.12	24.52	28.42
MIN	23.88	23.97	24.15	24.04	24.00	24.02	24.05	24.54	24.37	24.09	24.00	23.93	23.88

ANNUAL MAX MOMENTARY GAGE HEIGHT 28.53 M (MSL), AT 14.00 HOURS, ON DEC 5, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.04	0.20	2.32	0.57	0.78	0.41	0.67	8.17	3.12	1.40	0.47	0.20	
2	0.00	0.14	2.04	0.53	0.67	0.35	0.57	4.85	5.75	1.36	0.47	0.20	
3	0.20	0.29	2.72	0.50	0.64	0.32	0.53	4.05	8.45	1.32	0.47	0.16	
4	0.20	0.35	2.00	0.44	0.60	0.29	0.53	4.60	29.46	1.32	0.47	0.16	
5	0.10	0.41	1.96	0.41	0.53	0.29	0.53	4.20	36.09	1.28	0.47	0.12	
6	0.04	1.16	1.60	0.38	0.53	0.26	0.47	4.30	30.66	1.24	0.44	0.16	
7	0.00	0.67	1.13	0.38	0.50	2.52	0.47	12.79	19.00	1.20	0.41	0.20	
8	0.02	0.29	1.72	0.32	0.47	8.04	0.44	10.84	7.84	1.13	0.38	0.16	
9	0.04	1.24	1.72	0.32	0.44	12.43	0.41	10.84	6.14	1.06	0.38	0.16	
10	0.02	3.38	1.52	0.41	0.44	5.37	0.38	5.97	5.26	1.03	0.38	0.14	
11	0.04	2.28	3.00	0.47	0.38	1.88	0.35	4.25	5.37	1.03	0.50	0.16	
12	0.04	1.24	4.70	0.60	0.35	4.65	0.44	3.38	5.15	0.99	0.53	0.16	
13	0.04	2.20	2.68	2.00	0.35	4.15	4.00	3.16	4.50	0.96	0.57	0.20	
14	0.14	1.06	1.96	1.44	0.29	4.85	0.78	3.16	4.05	0.92	0.44	0.20	
15	0.18	0.89	1.80	1.09	0.29	2.76	2.92	12.61	3.70	0.85	0.38	0.18	
16	0.18	0.74	2.68	0.89	0.29	2.36	3.04	7.91	3.56	0.85	0.35	0.16	
17	0.10	0.81	2.68	0.60	0.26	1.52	4.40	5.53	3.38	0.78	0.32	0.14	
18	0.06	10.28	2.16	0.71	0.23	1.20	5.10	4.15	3.12	0.71	0.29	0.12	
19	0.08	7.97	1.92	0.78	0.29	1.13	4.80	4.20	2.92	0.64	0.32	0.12	
20	2.72	2.44	2.96	0.92	0.23	2.44	7.64	3.20	2.60	0.64	0.32	0.10	
21	1.84	2.32	2.12	0.71	0.23	1.56	13.15	3.20	2.44	0.60	0.38	0.10	
22	0.96	3.16	1.48	0.60	0.23	1.40	11.40	4.65	2.28	0.60	0.38	0.10	
23	0.96	3.61	1.16	0.57	0.20	1.48	4.45	4.25	2.08	0.60	0.41	0.08	
24	0.44	2.00	1.09	0.53	0.53	1.09	4.70	3.38	2.04	0.57	0.41	0.06	
25	0.35	1.36	0.96	0.47	0.47	1.03	4.25	3.00	1.96	0.57	0.29	0.06	
26	0.16	6.36	0.92	8.59	0.35	0.85	8.07	2.52	1.88	0.53	0.23	0.06	
27	0.10	4.40	0.96	12.79	0.44	0.74	7.19	2.28	1.76	0.53	0.20	0.99	
28	0.06	5.75	0.78	2.08	0.67	0.67	7.19	2.16	1.72	0.50	0.20	0.41	
29	0.06	11.72	0.71	1.60	0.67	0.67	14.40	3.61	1.64	0.50		0.23	
30	0.14	9.71	0.67	1.16	1.20	0.81	13.36	2.76	1.60	0.47		2.08	
31		3.04		0.99	0.53		15.90		1.48	0.47		1.60	
TOTAL	9.31	91.47	56.12	43.85	14.08	67.52	142.53	153.97	211.00	26.65	10.86	8.97	836.33 CMSDAY
MEAN	0.31	2.95	1.87	1.41	0.45	2.25	4.60	5.13	6.81	0.86	0.39	0.29	2.29 CMS
MAX	2.72	11.72	4.70	12.79	1.20	12.43	15.90	12.79	36.09	1.40	0.57	2.08	36.09 CMS
MIN	0.00	0.14	0.67	0.32	0.20	0.26	0.35	2.16	1.48	0.47	0.20	0.06	0.00 CMS
RUNOFF	0.804	7.903	4.849	3.789	1.217	5.834	12.315	13.303	18.230	2.303	0.938	0.775	72.259 MCM

MOMENTARY PEAK 37.49 CMS, AT 28.53 M (MSL), AT 14.00 HOURS, ON DEC 5, 1981
RUNOFF YIELD 15.07 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 246.64 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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'-54" 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK ABOUT 10 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — OVERBANK FLOW STARTS AT ELEVATION +10.09 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.

GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 116 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

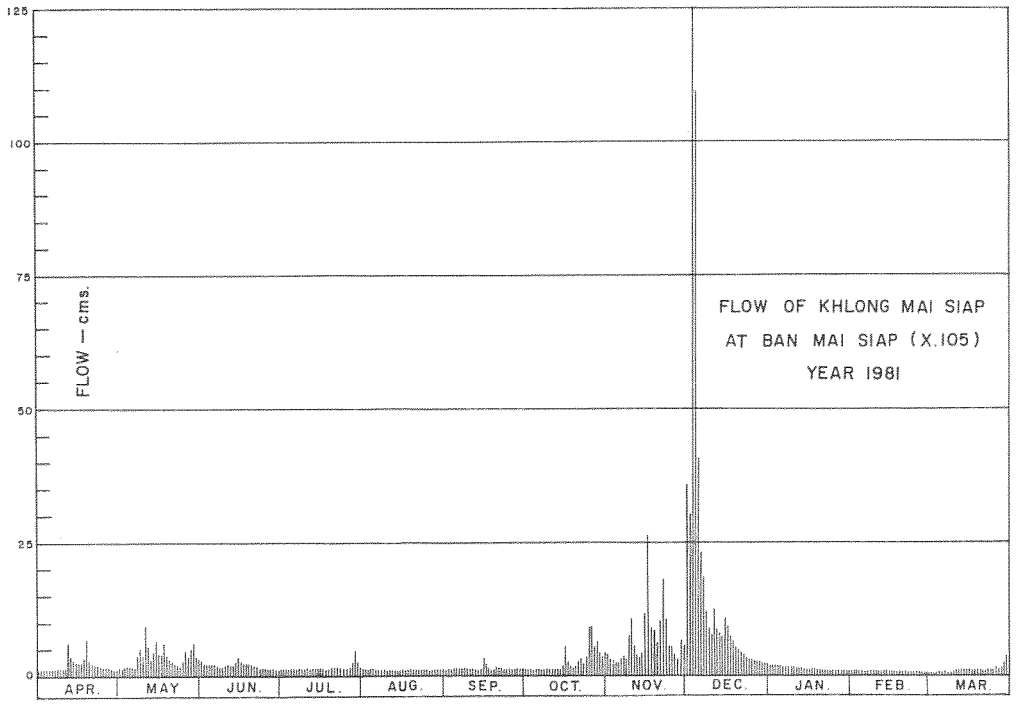
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.80	0.82	0.99	0.82	0.82	0.78	0.78	1.12	2.81	0.91	0.75	0.67	
2	0.80	0.81	0.93	0.82	0.82	0.78	0.78	1.00	2.63	0.90	0.75	0.67	
3	0.81	0.84	0.92	0.81	0.82	0.78	0.77	0.94	6.29	0.89	0.74	0.67	
4	0.81	0.85	0.89	0.81	0.81	0.85	0.77	0.90	4.60	0.88	0.73	0.67	
5	0.81	0.83	0.88	0.81	0.80	0.80	0.77	0.89	3.09	0.87	0.73	0.66	
6	0.81	0.83	0.87	0.81	0.80	0.80	0.76	1.03	2.51	0.87	0.73	0.66	
7	0.81	0.82	0.86	0.80	0.80	0.81	0.76	1.06	1.99	0.87	0.77	0.66	
8	0.81	1.01	0.85	0.80	0.80	0.83	0.76	0.98	1.69	0.85	0.77	0.66	
9	0.80	1.22	0.84	0.80	0.80	0.83	0.75	1.35	1.51	0.85	0.76	0.66	
10	0.80	1.07	0.85	0.80	0.79	0.81	0.75	1.72	1.39	0.84	0.74	0.66	
11	0.80	1.67	0.88	0.81	0.79	0.80	0.75	1.34	1.83	0.83	0.72	0.77	
12	1.35	1.15	0.89	0.82	0.79	0.79	0.75	1.14	1.74	0.83	0.71	0.77	
13	1.08	0.98	0.89	0.81	0.79	0.82	0.77	1.05	1.63	0.83	0.71	0.77	
14	0.98	1.14	0.92	0.81	0.78	0.81	0.78	1.02	1.50	0.82	0.71	0.76	
15	0.96	1.40	1.05	0.83	0.78	0.81	0.77	1.59	1.44	0.82	0.71	0.76	
16	0.93	1.14	0.97	0.81	0.78	1.08	1.27	2.42	1.68	0.82	0.70	0.76	
17	0.90	1.12	0.90	0.80	0.78	0.84	0.96	1.81	1.77	0.81	0.70	0.76	
18	0.93	1.36	0.88	0.80	0.78	0.82	0.87	1.51	1.54	0.80	0.70	0.76	
19	1.44	1.14	0.87	0.82	0.78	0.81	0.84	1.59	1.42	0.79	0.70	0.76	
20	0.98	1.00	0.86	0.83	0.78	0.86	0.82	1.34	1.29	0.79	0.70	0.76	
21	0.93	0.97	0.85	0.83	0.78	0.84	0.99	1.76	1.22	0.78	0.69	0.76	
22	0.89	0.94	0.84	0.85	0.78	0.82	1.00	2.16	1.15	0.78	0.69	0.76	
23	0.91	0.91	0.83	0.84	0.78	0.81	0.89	1.57	1.10	0.78	0.69	0.75	
24	0.88	0.89	0.83	0.82	0.78	0.80	0.96	1.32	1.07	0.77	0.69	0.75	
25	0.86	0.88	0.85	0.82	0.78	0.82	1.61	1.29	1.04	0.77	0.68	0.75	
26	0.84	1.19	0.83	0.81	0.78	0.81	1.61	1.10	1.01	0.77	0.68	0.83	
27	0.83	0.99	0.83	0.86	0.78	0.80	1.25	1.05	1.01	0.76	0.68	0.77	
28	0.82	1.20	0.82	0.85	0.80	0.79	1.34	1.01	0.96	0.76	0.68	0.85	
29	0.81	1.35	0.83	1.19	0.79	0.78	1.11	1.39	0.95	0.75		0.94	
30	0.80	1.04	0.82	0.94	0.79	0.78	1.03	1.25	0.94	0.75		1.10	
31		1.00		0.92	0.79		1.09		0.93	0.75		1.12	
MEAN	0.90	1.05	0.88	0.84	0.79	0.82	0.94	1.32	1.80	0.82	0.71	0.76	
MAX	1.44	1.67	1.05	1.19	0.82	1.08	1.61	2.42	6.29	0.91	0.77	1.12	6.29
MIN	0.80	0.81	0.82	0.80	0.78	0.78	0.75	0.89	0.93	0.75	0.68	0.66	0.66

ANNUAL MAX MOMENTARY GAGE HEIGHT 10.37 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.20	1.38	2.91	1.38	1.38	1.06	1.06	4.08	35.44	2.19	0.85	0.35	
2	1.20	1.29	2.37	1.38	1.38	1.06	1.06	3.00	30.14	2.10	0.85	0.35	
3	1.29	1.56	2.28	1.29	1.38	1.06	0.99	2.46	210.12	2.01	0.78	0.35	
4	1.29	1.65	2.01	1.29	1.29	1.65	0.99	2.10	110.20	1.92	0.71	0.35	
5	1.29	1.47	1.92	1.29	1.20	1.20	0.99	2.01	44.96	1.83	0.71	0.30	
6	1.29	1.47	1.83	1.29	1.20	1.20	0.92	3.27	27.05	1.83	0.71	0.30	
7	1.29	1.38	1.74	1.20	1.20	1.29	0.92	3.54	15.08	1.83	0.99	0.30	
8	1.29	3.09	1.65	1.20	1.20	1.47	0.92	2.82	9.97	1.65	0.99	0.30	
9	1.20	4.98	1.56	1.20	1.20	1.47	0.85	6.15	7.63	1.65	0.92	0.30	
10	1.20	3.63	1.65	1.20	1.13	1.29	0.85	10.40	6.51	1.56	0.78	0.30	
11	1.20	9.71	1.92	1.29	1.13	1.20	0.85	6.06	12.05	1.47	0.64	0.99	
12	6.15	4.35	2.01	1.38	1.13	1.13	0.85	4.26	10.70	1.47	0.57	0.99	
13	3.72	2.82	2.01	1.29	1.13	1.38	0.99	3.45	9.19	1.47	0.57	0.99	
14	2.82	4.26	2.28	1.29	1.06	1.29	1.06	3.18	7.50	1.38	0.57	0.92	
15	2.64	6.60	3.45	1.47	1.06	1.29	0.99	8.67	6.96	1.38	0.57	0.92	
16	2.37	4.26	2.73	1.29	1.06	3.72	5.43	24.88	9.84	1.38	0.50	0.92	
17	2.10	4.08	2.10	1.20	1.06	1.56	2.64	11.75	11.15	1.29	0.50	0.92	
18	2.37	6.24	1.92	1.20	1.06	1.38	1.83	7.63	8.02	1.20	0.50	0.92	
19	6.96	4.26	1.83	1.38	1.06	1.29	1.56	8.67	6.78	1.13	0.50	0.92	
20	2.82	3.00	1.74	1.47	1.06	1.74	1.38	6.06	5.61	1.13	0.50	0.92	
21	2.37	2.73	1.65	1.47	1.06	1.56	2.91	11.00	4.98	1.06	0.45	0.92	
22	2.01	2.46	1.56	1.65	1.06	1.38	3.00	18.88	4.35	1.06	0.45	0.92	
23	2.19	2.19	1.47	1.56	1.06	1.29	2.01	8.41	3.90	1.06	0.45	0.85	
24	1.92	2.01	1.47	1.38	1.06	1.20	2.64	5.88	3.63	0.99	0.45	0.85	
25	1.74	1.92	1.65	1.38	1.06	1.38	8.93	5.61	3.36	0.99	0.40	0.85	
26	1.56	4.71	1.47	1.29	1.06	1.29	8.93	3.90	3.09	0.99	0.40	1.47	
27	1.47	2.91	1.47	1.74	1.06	1.20	5.25	3.45	3.09	0.92	0.40	0.99	
28	1.38	4.80	1.38	1.65	1.20	1.13	6.06	3.09	2.64	0.92	0.40	1.65	
29	1.29	6.15	1.47	4.71	1.13	1.06	3.99	6.51	2.55	0.85		2.46	
30	1.20	3.36	1.38	2.46	1.13	1.06	3.27	5.25	2.46	0.85		3.90	
31		3.00		2.28	1.13		3.81		2.37	0.85		4.08	
TOTAL	62.82	107.72	56.88	47.55	35.38	41.28	77.93	196.42	621.32	42.41	17.11	31.55	1338.37 CMSDAY
MEAN	2.09	3.47	1.90	1.53	1.14	1.38	2.51	6.55	20.04	1.37	0.61	1.02	3.67 CMS
MAX	6.96	9.71	3.45	4.71	1.38	3.72	8.93	24.88	210.12	2.19	0.99	4.08	210.12 CMS
MIN	1.20	1.29	1.38	1.20	1.06	1.06	0.85	2.01	2.37	0.85	0.40	0.30	0.30 CMS
RUNOFF	5.428	9.307	4.914	4.108	3.057	3.567	6.733	16.971	53.682	3.664	1.478	2.726	115.635 MCM

MOMENTARY PEAK ******** CMS, AT 10.37 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981
RUNOFF YIELD 23.66 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG THA KHAE AT BAN THA KHAE, PHATTHALUNG (X.68)

LOCATION — LAT. 7°-34'-01" N., LONG. 100°-03'-05" E., ON LEFT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHATTHALUNG-HAT YAI HIGHWAY, TAMBON THA KHAE, AMPHOE MUANG, PHATTHALUNG.

DRAINAGE AREA — 298 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON RIGHT BANK NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +3.095 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 258 DISCHARGE MEASUREMENTS MADE DURING 1967-1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

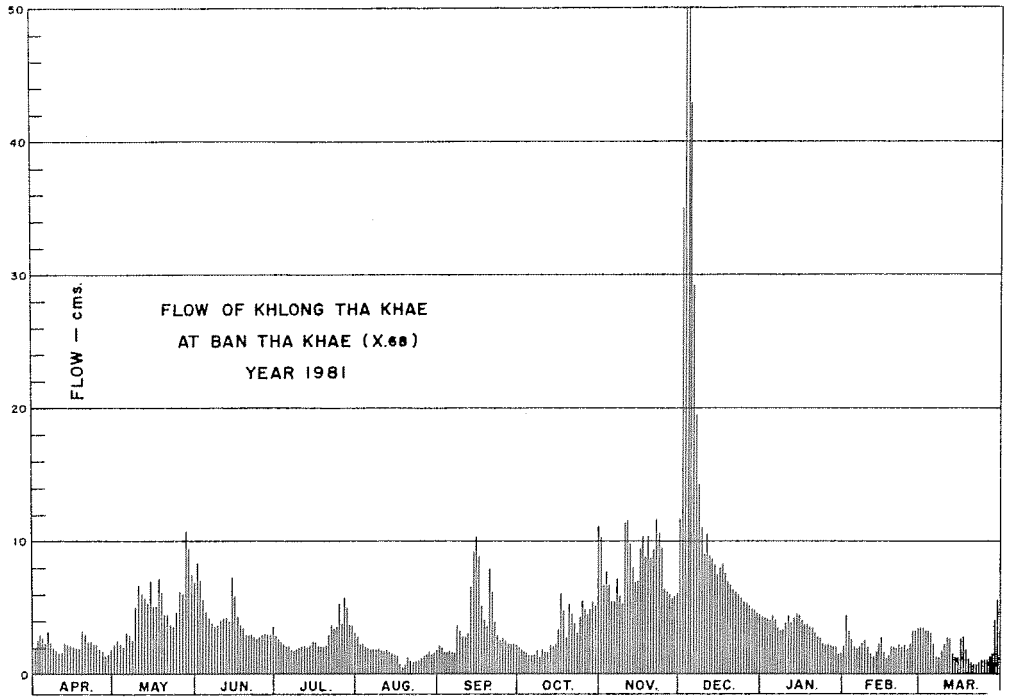
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.68	0.74	1.35	0.80	0.78	0.72	0.71	1.45	1.67	1.01	0.72	0.90	
2	0.71	0.78	1.25	0.76	0.74	0.71	0.68	1.20	2.79	0.99	0.99	0.90	
3	0.83	0.72	1.13	0.73	0.71	0.65	0.66	1.30	4.04	0.98	0.79	0.88	
4	0.80	0.70	1.04	0.72	0.70	0.64	0.64	1.19	4.32	0.94	0.77	0.87	
5	0.75	0.70	1.00	0.71	0.68	0.64	0.63	1.08	3.15	0.99	0.75	0.85	
6	0.86	0.84	0.95	0.69	0.67	0.64	0.61	1.09	2.51	0.94	0.67	0.68	
7	0.72	0.80	0.92	0.68	0.67	0.63	0.61	1.26	1.97	0.88	0.72	0.56	
8	0.68	0.79	0.90	0.65	0.66	0.92	0.66	1.11	1.71	0.87	0.72	0.52	
9	0.67	1.02	0.90	0.66	0.69	0.86	0.71	1.07	1.45	0.87	0.78	0.63	
10	0.65	1.23	0.94	0.71	0.67	0.80	0.67	1.57	1.34	0.90	0.69	0.75	
11	0.67	1.16	0.97	0.71	0.65	0.77	0.64	1.58	1.51	0.99	0.62	0.80	
12	0.76	1.13	0.97	0.72	0.68	0.84	0.66	1.42	1.39	0.90	0.59	0.79	
13	0.73	0.98	0.97	0.69	0.64	1.22	0.73	1.28	1.37	0.94	0.60	0.64	
14	0.71	1.16	0.92	0.72	0.63	1.42	0.71	1.23	1.33	1.00	0.67	0.56	
15	0.72	1.24	1.27	0.77	0.61	1.50	0.78	1.24	1.29	0.99	0.81	0.54	
16	0.70	1.04	1.02	0.76	0.60	1.39	0.85	1.45	1.31	0.90	0.64	0.78	
17	0.71	1.08	0.98	0.72	0.46	1.03	1.16	1.50	1.35	0.93	0.55	0.82	
18	0.72	1.26	0.89	0.71	0.41	0.93	0.88	1.38	1.28	0.93	0.67	0.72	
19	0.85	1.09	0.84	0.71	0.52	0.89	0.77	1.50	1.24	0.90	0.71	0.58	
20	0.79	0.96	0.82	0.69	0.59	1.32	1.08	1.38	1.22	0.90	0.70	0.50	
21	0.76	1.00	0.82	0.84	0.53	1.10	1.05	1.42	1.18	0.83	0.68	0.49	
22	0.76	0.92	0.83	0.92	0.52	0.89	0.93	1.59	1.15	0.94	0.73	0.47	
23	0.70	0.90	0.78	0.88	0.50	0.81	0.83	1.46	1.14	0.81	0.69	0.46	
24	0.73	0.93	0.78	0.91	0.53	0.76	0.88	1.36	1.11	0.71	0.73	0.50	
25	0.69	1.06	0.80	1.08	0.58	0.79	1.10	1.25	1.10	0.70	0.66	0.55	
26	0.65	1.17	0.82	0.93	0.58	0.77	1.03	1.16	1.09	0.73	0.71	0.55	
27	0.63	1.15	0.84	1.12	0.62	0.74	0.97	1.15	1.06	0.74	0.86	0.54	
28	0.61	1.53	0.86	1.05	0.66	0.72	1.09	1.11	1.05	0.68	0.86	0.62	
29	0.66	1.46	0.82	0.91	0.62	0.73	1.09	1.14	1.04	0.70		0.70	
30	0.69	1.25	0.91	0.92	0.64	0.75	1.05	1.16	1.03	0.61		1.11	
31		1.10		0.87	0.63		1.55		1.01	0.61		1.09	
MEAN	0.72	1.03	0.94	0.80	0.62	0.89	0.85	1.30	1.62	0.86	0.72	0.69	
MAX	0.86	1.53	1.35	1.12	0.78	1.50	1.55	1.59	4.32	1.01	0.99	1.11	4.32
MIN	0.61	0.70	0.78	0.65	0.41	0.63	0.61	1.07	1.01	0.61	0.55	0.46	0.41

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.55 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — M (A.D)

LEFT BANK ELEVATION — 5.76 M (A.D)

RIGHT BANK ELEVATION — 5.76 M (A.D), DRAINAGE AREA — 298 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.86	2.28	8.25	2.70	2.56	2.14	2.07	9.55	12.75	4.50	2.14	3.50	
2	2.07	2.56	7.00	2.42	2.28	2.07	1.86	6.40	35.54	4.31	4.31	3.50	
3	2.94	2.14	5.70	2.21	2.07	1.65	1.72	7.60	74.18	4.22	2.63	3.34	
4	2.70	2.00	4.80	2.14	2.00	1.58	1.58	6.30	84.80	3.86	2.49	3.26	
5	2.35	2.00	4.40	2.07	1.86	1.58	1.51	5.20	45.35	4.31	2.35	3.10	
6	3.18	3.02	3.95	1.93	1.79	1.58	1.37	5.30	28.73	3.86	1.79	1.86	
7	2.14	2.70	3.68	1.86	1.79	1.51	1.37	7.12	17.86	3.34	2.14	1.10	
8	1.86	2.63	3.50	1.65	1.72	3.68	1.72	5.50	13.37	3.26	2.14	0.90	
9	1.79	4.60	3.50	1.72	1.93	3.18	2.07	5.10	9.55	3.26	2.56	1.51	
10	1.65	6.76	3.86	2.07	1.79	2.70	1.79	11.25	8.12	3.50	1.93	2.35	
11	1.79	6.00	4.13	2.07	1.65	2.49	1.58	11.40	10.35	4.31	1.44	2.70	
12	2.42	5.70	4.13	2.14	1.86	3.02	1.72	9.16	8.77	3.50	1.25	2.63	
13	2.21	4.22	4.13	1.93	1.58	6.64	2.21	7.36	8.51	3.86	1.30	1.58	
14	2.07	6.00	3.68	2.14	1.51	9.16	2.07	6.76	7.99	4.40	1.79	1.10	
15	2.14	6.88	7.24	2.49	1.37	10.20	2.56	6.88	7.48	4.31	2.78	1.00	
16	2.00	4.80	4.60	2.42	1.30	8.77	3.10	9.55	7.73	3.50	1.58	2.56	
17	2.07	5.20	4.22	2.14	0.64	4.70	6.00	10.20	8.25	3.77	1.05	2.86	
18	2.14	7.12	3.42	2.07	0.44	3.77	3.34	8.64	7.36	3.77	1.79	2.14	
19	3.10	5.30	3.02	2.07	0.90	3.42	2.49	10.20	6.88	3.50	2.07	1.20	
20	2.63	4.04	2.86	1.93	1.25	7.86	5.20	8.64	6.64	3.50	2.00	0.80	
21	2.42	4.40	2.86	3.02	0.95	5.40	4.90	9.16	6.20	2.94	1.86	0.76	
22	2.42	3.68	2.94	3.68	0.90	3.42	3.77	11.55	5.90	3.86	2.21	0.68	
23	2.00	3.50	2.56	3.34	0.80	2.78	2.94	9.68	5.80	2.78	1.93	0.64	
24	2.21	3.77	2.56	3.59	0.95	2.42	3.34	8.38	5.50	2.07	2.21	0.80	
25	1.93	5.00	2.70	5.20	1.20	2.63	5.40	7.00	5.40	2.00	1.72	1.05	
26	1.65	6.10	2.86	3.77	1.20	2.49	4.70	6.00	5.30	2.21	2.07	1.05	
27	1.51	5.90	3.02	5.60	1.44	2.28	4.13	5.90	5.00	2.28	3.18	1.00	
28	1.37	10.65	3.18	4.90	1.72	2.14	5.30	5.50	4.90	1.86	3.18	1.44	
29	1.72	9.68	2.86	3.59	1.44	2.21	5.30	5.80	4.80	2.00		2.00	
30	1.93	7.00	3.59	3.68	1.58	2.35	4.90	6.00	4.70	1.37		5.50	
31		5.40		3.26	1.51		10.95		4.50	1.37		5.20	
TOTAL	64.27	151.03	119.20	85.80	45.98	109.82	102.96	233.08	468.21	101.58	59.89	63.11	1604.93 CMSDAY
MEAN	2.14	4.87	3.97	2.77	1.48	3.66	3.32	7.77	15.10	3.28	2.14	2.04	4.40 CMS
MAX	3.18	10.65	8.25	5.60	2.56	10.20	10.95	11.55	84.80	4.50	4.31	5.50	84.80 CMS
MIN	1.37	2.00	2.56	1.65	0.44	1.51	1.37	5.10	4.50	1.37	1.05	0.64	0.44 CMS
RUNOFF	5.553	13.049	10.299	7.413	3.973	9.488	8.896	20.138	40.453	8.777	5.174	5.453	138.666 MCM

MOMENTARY PEAK 94.70 CMS, AT 4.55 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD 14.76 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 317.79 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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., AT BAN KHUAN IN NOMO, AMPHOE KHAO CHAI SON, PHATTHALUNG.

DRAINAGE AREA — 133 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW

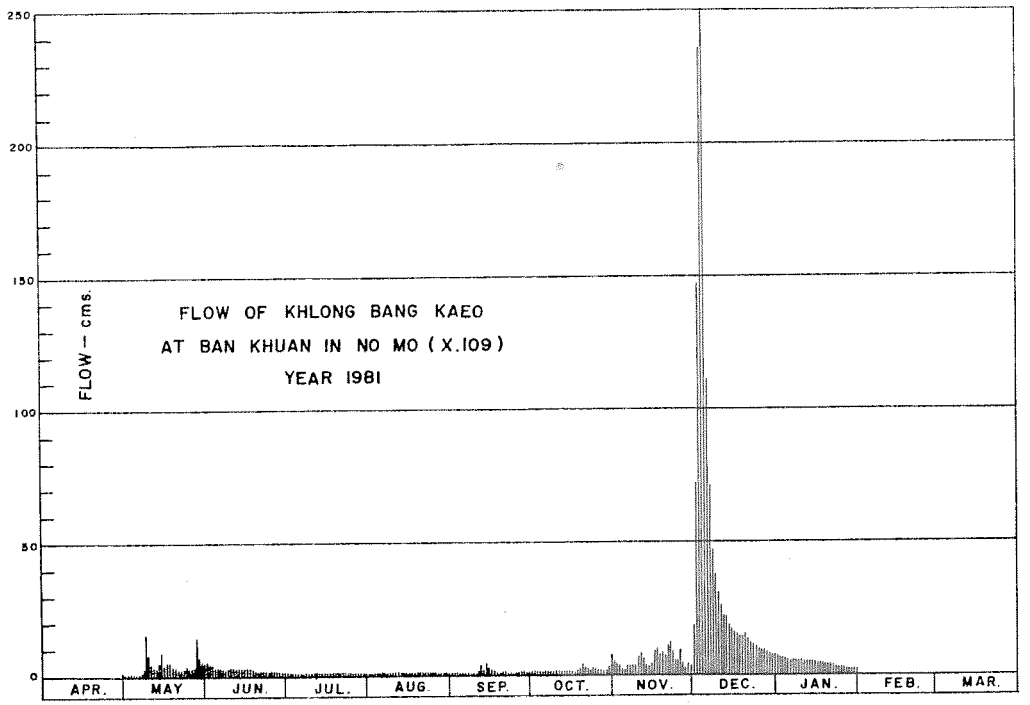
GENERAL DESCRIPTION — RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 55 DISCHARGE MEASUREMENTS MADE IN 1981

REMARKS — NO RECORDS DURING APR.1-30,1981 AND FEB.1-MAR.31,1982.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	0.83	1.35	0.85	0.79	0.73	0.77	1.38	2.21	1.41	*******	*******	
2	*******	0.83	1.18	0.84	0.78	0.73	0.76	1.25	4.19	1.39	*******	*******	
3	*******	0.83	1.13	0.84	0.77	0.73	0.75	1.12	6.12	1.38	*******	*******	
4	*******	0.81	1.07	0.83	0.77	0.73	0.75	1.04	7.41	1.35	*******	*******	
5	*******	0.80	1.01	0.83	0.77	0.73	0.75	0.96	6.61	1.33	*******	*******	
6	*******	0.82	1.03	0.83	0.76	0.72	0.75	1.07	4.30	1.31	*******	*******	
7	*******	0.84	1.04	0.83	0.76	0.73	0.74	1.15	3.38	1.30	*******	*******	
8	*******	0.92	1.01	0.83	0.75	0.74	0.74	1.07	3.14	1.29	*******	*******	
9	*******	2.01	0.98	0.82	0.75	0.74	0.75	1.16	2.82	1.27	*******	*******	
10	*******	1.67	1.03	0.81	0.75	0.73	0.75	1.39	2.70	1.26	*******	*******	
11	*******	1.27	1.06	0.83	0.75	0.75	0.74	1.53	2.57	1.25	*******	*******	
12	*******	1.21	1.02	0.82	0.75	1.21	0.74	1.37	2.31	1.23	*******	*******	
13	*******	1.09	1.01	0.82	0.75	0.98	0.74	1.20	2.30	1.22	*******	*******	
14	*******	1.26	1.01	0.82	0.74	1.30	0.73	1.10	2.15	1.20	*******	*******	
15	*******	1.57	1.05	0.82	0.74	1.00	0.79	1.12	2.04	1.19	*******	*******	
16	*******	1.23	1.03	0.82	0.74	0.96	0.79	1.48	1.99	1.18	*******	*******	
17	*******	1.23	0.98	0.81	0.73	0.88	0.83	1.69	1.97	1.17	*******	*******	
18	*******	1.24	0.95	0.81	0.73	0.83	0.76	1.43	1.94	1.16	*******	*******	
19	*******	1.12	0.93	0.80	0.73	0.82	0.94	1.57	1.89	1.15	*******	*******	
20	*******	1.13	0.92	0.79	0.73	0.95	1.15	1.42	1.93	1.14	*******	*******	
21	*******	1.07	0.91	0.85	0.73	0.86	1.05	1.75	1.86	1.14	*******	*******	
22	*******	1.01	0.90	0.86	0.73	0.90	1.09	1.82	1.78	1.13	*******	*******	
23	*******	1.10	0.89	0.81	0.73	0.87	0.99	1.50	1.74	1.11	*******	*******	
24	*******	1.22	0.87	0.81	0.73	0.85	1.12	1.32	1.68	1.10	*******	*******	
25	*******	1.07	0.88	0.81	0.73	0.84	1.13	1.24	1.63	1.04	*******	*******	
26	*******	1.05	0.87	0.87	0.73	0.81	0.99	1.62	1.59	1.00	*******	*******	
27	*******	1.02	0.87	0.81	0.72	0.79	0.95	1.24	1.57	0.98	*******	*******	
28	*******	1.84	0.87	0.80	0.72	0.78	0.99	1.12	1.53	0.97	*******	*******	
29	*******	1.62	0.89	0.80	0.72	0.79	0.91	1.19	1.51	0.97		*******	
30	*******	1.38	0.86	0.81	0.73	0.78	0.97	1.11	1.47	0.96		*******	
31		1.24		0.80	0.73		1.55		1.43	0.96		*******	
MEAN	*******	1.17	0.99	0.82	0.74	0.84	0.89	1.31	2.64	1.18	*******	*******	
MAX	*******	2.01	1.35	0.87	0.79	1.30	1.55	1.82	7.41	1.41	*******	*******	7.41
MIN	*******	0.80	0.86	0.79	0.72	0.72	0.73	0.96	1.43	0.96	*******	*******	*******

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.52 M (A.D), AT 16.00 HOURS, ON DEC 4, 1981
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 8.28 M (A.D), DRAINAGE AREA 133 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	*******	1.22	6.37	1.37	0.95	0.65	0.85	6.75	20.70	7.12	*******	*******	
2	*******	1.22	4.30	1.30	0.90	0.65	0.80	5.13	82.82	6.87	*******	*******	
3	*******	1.22	3.80	1.30	0.85	0.65	0.75	3.70	189.80	6.75	*******	*******	
4	*******	1.07	3.20	1.22	0.85	0.65	0.75	2.90	280.97	6.37	*******	*******	
5	*******	1.00	2.60	1.22	0.85	0.65	0.75	2.20	223.20	6.12	*******	*******	
6	*******	1.15	2.80	1.22	0.80	0.60	0.75	3.20	87.50	5.88	*******	*******	
7	*******	1.30	2.90	1.22	0.80	0.65	0.70	4.00	52.10	5.75	*******	*******	
8	*******	1.90	2.60	1.22	0.75	0.70	0.70	3.20	44.45	5.63	*******	*******	
9	*******	16.70	2.35	1.15	0.75	0.70	0.75	4.10	35.30	5.38	*******	*******	
10	*******	10.55	2.80	1.07	0.75	0.65	0.75	6.87	32.00	5.25	*******	*******	
11	*******	5.38	3.10	1.22	0.75	0.75	0.70	8.62	28.75	5.13	*******	*******	
12	*******	4.62	2.70	1.15	0.75	4.62	0.70	6.62	22.72	4.87	*******	*******	
13	*******	3.40	2.60	1.15	0.75	2.35	0.70	4.50	22.50	4.75	*******	*******	
14	*******	5.25	2.60	1.15	0.70	5.75	0.65	3.50	19.50	4.50	*******	*******	
15	*******	9.12	3.00	1.15	0.70	2.50	0.95	3.70	17.30	4.40	*******	*******	
16	*******	4.87	2.80	1.15	0.70	2.20	0.95	8.00	16.30	4.30	*******	*******	
17	*******	4.87	2.35	1.07	0.65	1.60	1.22	10.85	15.90	4.20	*******	*******	
18	*******	5.00	2.12	1.07	0.65	1.22	0.80	7.37	15.30	4.10	*******	*******	
19	*******	3.70	1.97	1.00	0.65	1.15	2.05	9.12	14.32	4.00	*******	*******	
20	*******	3.80	1.90	0.95	0.65	2.12	4.00	7.25	15.10	3.90	*******	*******	
21	*******	3.20	1.82	1.37	0.65	1.45	3.00	11.88	13.80	3.90	*******	*******	
22	*******	2.60	1.75	1.45	0.65	1.75	3.40	13.10	12.40	3.80	*******	*******	
23	*******	3.50	1.67	1.07	0.65	1.52	2.42	8.25	11.70	3.60	*******	*******	
24	*******	4.75	1.52	1.07	0.65	1.37	3.70	6.00	10.70	3.50	*******	*******	
25	*******	3.20	1.60	1.07	0.65	1.30	3.80	5.00	9.95	2.90	*******	*******	
26	*******	3.00	1.52	1.52	0.65	1.07	2.42	9.80	9.37	2.50	*******	*******	
27	*******	2.70	1.52	1.07	0.60	0.95	2.12	5.00	9.12	2.35	*******	*******	
28	*******	13.45	1.52	1.00	0.60	0.90	2.42	3.70	8.62	2.27	*******	*******	
29	*******	9.80	1.67	1.00	0.60	0.95	1.82	4.40	8.37	2.27		*******	
30	*******	6.75	1.45	1.07	0.65	0.90	2.27	3.60	7.87	2.20		*******	
31		5.00		1.00	0.65		8.87		7.37	2.20		*******	
TOTAL	*******	145.29	74.90	36.04	22.20	42.97	56.51	182.31	1345.80	136.76	*******	*******	******** CMSDAY
MEAN	*******	4.69	2.50	1.16	0.72	1.43	1.82	6.08	43.41	4.41	*******	*******	******* CMS
MAX	*******	16.70	6.37	1.52	0.95	5.75	8.87	13.10	280.97	7.12	*******	*******	280.97 CMS
MIN	*******	1.00	1.45	0.95	0.60	0.60	0.65	2.20	7.37	2.20	*******	*******	******* CMS
RUNOFF	*******	12.553	6.471	3.114	1.918	3.713	4.882	15.752	116.277	11.816	*******	*******	******** MCM

MOMENTARY PEAK 289.00 CMS, AT 7.52 M (A.D), AT 16.00 HOURS, ON DEC 4, 1981

RUNOFF YIELD ******** LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 2172.93 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

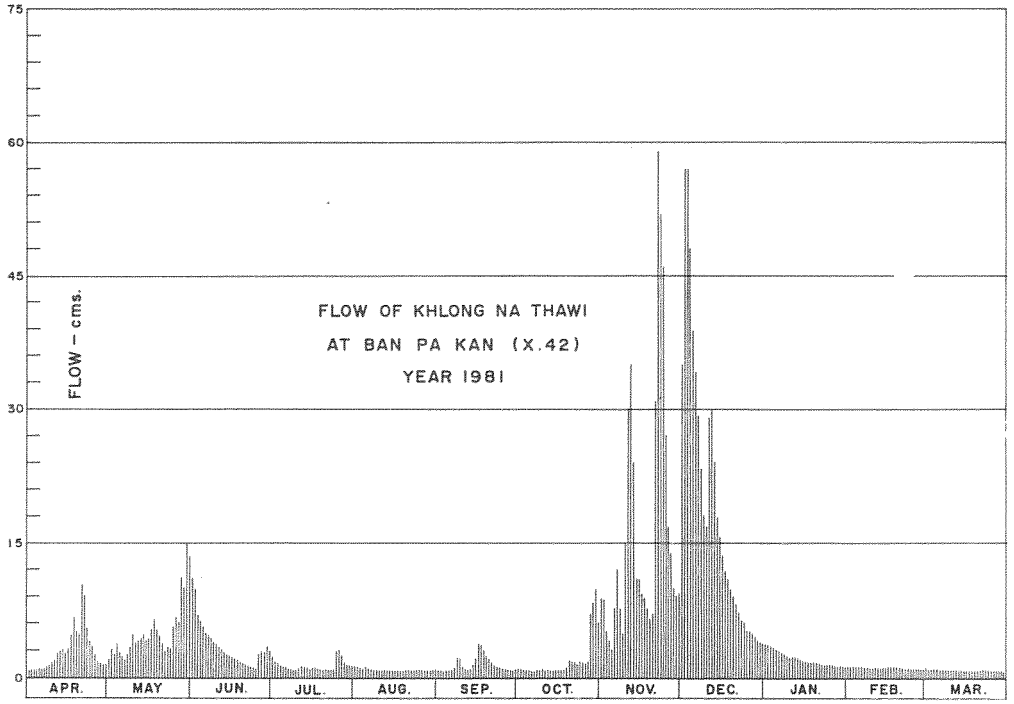
KHLONG NA THAWI AT BAN PA KAN, SONGKHLA (X.42)

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 AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 7 METERS FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.40	0.91	2.44	0.99	0.70	0.49	0.57	2.20	4.75	1.36	0.74	0.61	
2	0.40	1.27	2.33	0.90	0.65	0.49	0.57	2.21	6.41	1.34	0.73	0.59	
3	0.42	1.14	1.96	0.85	0.62	0.46	0.56	1.67	6.41	1.32	0.72	0.58	
4	0.49	1.39	1.83	0.79	0.60	0.48	0.51	1.45	5.70	1.27	0.72	0.58	
5	0.57	1.16	1.73	0.72	0.66	0.53	0.47	1.24	5.03	1.23	0.71	0.56	
6	0.56	1.04	1.61	0.66	0.60	0.56	0.44	2.06	4.63	1.19	0.71	0.54	
7	0.55	0.92	1.55	0.60	0.56	0.50	0.43	2.57	4.24	1.15	0.70	0.53	
8	0.65	1.11	1.47	0.55	0.53	1.02	0.45	2.05	3.71	1.11	0.69	0.52	
9	0.80	1.30	1.39	0.50	0.51	1.05	0.44	1.60	3.27	1.09	0.68	0.50	
10	0.87	1.58	1.35	0.49	0.50	0.78	0.55	2.93	3.16	1.07	0.67	0.50	
11	0.93	1.40	1.28	0.64	0.49	0.55	0.54	4.34	4.25	1.04	0.66	0.49	
12	1.12	1.42	1.24	0.72	0.47	0.50	0.50	4.77	4.38	1.02	0.65	0.48	
13	1.21	1.48	1.17	0.69	0.46	0.64	0.47	3.82	3.84	1.00	0.64	0.48	
14	1.23	1.57	1.11	0.64	0.44	0.75	0.45	2.51	3.31	0.96	0.63	0.47	
15	1.12	1.45	1.05	0.61	0.43	0.95	0.44	2.45	3.10	0.95	0.63	0.46	
16	1.24	1.56	1.04	0.65	0.43	1.38	0.48	2.28	2.86	0.93	0.63	0.45	
17	1.52	1.71	1.00	0.62	0.45	1.36	0.51	2.19	2.57	0.93	0.63	0.45	
18	1.92	1.98	0.95	0.59	0.46	1.24	0.51	2.05	2.43	0.91	0.62	0.45	
19	1.64	1.69	0.89	0.54	0.46	1.03	0.55	1.90	2.31	0.89	0.62	0.45	
20	1.37	1.54	0.82	0.50	0.48	0.96	0.96	1.96	2.22	0.87	0.61	0.45	
21	2.40	1.38	0.76	0.56	0.49	0.91	0.91	4.37	2.14	0.85	0.60	0.45	
22	2.26	1.21	0.72	0.55	0.49	0.82	0.87	6.54	1.99	0.82	0.60	0.46	
23	1.72	1.28	0.66	0.54	0.48	0.74	0.83	6.04	1.86	0.82	0.60	0.46	
24	1.42	1.26	0.61	0.54	0.48	0.68	0.92	5.55	1.82	0.81	0.59	0.45	
25	1.33	1.74	0.67	0.59	0.46	0.63	0.87	4.07	1.75	0.80	0.58	0.45	
26	1.11	1.93	1.12	1.23	0.49	0.60	0.81	3.19	1.68	0.79	0.58	0.44	
27	0.91	1.83	1.19	1.13	0.49	0.56	0.83	2.80	1.61	0.78	0.57	0.44	
28	0.82	2.53	1.16	0.90	0.53	0.52	1.96	2.38	1.54	0.76	0.56	0.41	
29	0.80	2.42	1.29	0.78	0.54	0.51	2.14	2.25	1.46	0.76		0.40	
30	0.74	3.01	1.24	0.74	0.54	0.55	2.40	2.29	1.42	0.75		0.39	
31		2.80		0.72	0.54		1.84		1.39	0.75		0.38	
MEAN	1.08	1.58	1.25	0.69	0.52	0.74	0.80	2.92	3.14	0.98	0.65	0.48	
MAX	2.40	3.01	2.44	1.23	0.70	1.38	2.40	6.54	6.41	1.36	0.74	0.61	6.54
MIN	0.40	0.91	0.61	0.49	0.43	0.46	0.43	1.24	1.39	0.75	0.56	0.38	0.38

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.80 M (A.D), AT 6.00 HOURS, ON NOV 22, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.60	1.78	10.72	2.06	1.20	0.78	0.94	8.80	35.25	3.70	1.28	1.02	
2	0.60	3.25	9.84	1.75	1.10	0.78	0.94	8.88	57.24	3.60	1.26	0.98	
3	0.64	2.66	7.02	1.57	1.04	0.72	0.92	5.25	57.24	3.50	1.24	0.96	
4	0.78	3.85	6.18	1.38	1.00	0.76	0.82	4.15	47.60	3.25	1.24	0.96	
5	0.94	2.74	5.58	1.24	1.12	0.86	0.74	3.10	38.89	3.05	1.22	0.92	
6	0.92	2.26	4.95	1.12	1.00	0.92	0.68	7.72	33.69	2.86	1.22	0.88	
7	0.90	1.82	4.65	1.00	0.92	0.80	0.66	11.76	28.78	2.70	1.20	0.86	
8	1.10	2.54	4.25	0.90	0.86	2.18	0.70	7.65	22.81	2.54	1.18	0.84	
9	1.40	3.40	3.85	0.80	0.82	2.30	0.68	4.90	18.10	2.46	1.16	0.80	
10	1.64	4.80	3.65	0.78	0.80	1.36	0.90	14.70	17.00	2.38	1.14	0.80	
11	1.85	3.90	3.30	1.08	0.78	0.90	0.88	29.98	28.90	2.26	1.12	0.78	
12	2.58	4.00	3.10	1.24	0.74	0.80	0.80	35.51	30.46	2.18	1.10	0.76	
13	2.95	4.30	2.78	1.18	0.72	1.08	0.74	24.02	24.24	2.10	1.08	0.76	
14	3.05	4.75	2.54	1.08	0.68	1.30	0.70	11.28	18.50	1.96	1.06	0.74	
15	2.58	4.15	2.30	1.02	0.66	1.92	0.68	10.80	16.40	1.92	1.06	0.72	
16	3.10	4.70	2.26	1.10	0.66	3.80	0.76	9.44	14.08	1.85	1.06	0.70	
17	4.50	5.46	2.10	1.04	0.70	3.70	0.82	8.72	11.76	1.85	1.06	0.70	
18	6.74	6.48	1.92	0.98	0.72	3.10	0.82	7.65	10.64	1.78	1.04	0.70	
19	5.10	5.35	1.71	0.88	0.72	2.22	0.90	6.60	9.68	1.71	1.04	0.70	
20	3.75	4.60	1.47	0.80	0.76	1.96	1.96	7.02	8.96	1.64	1.02	0.70	
21	10.40	3.80	1.32	0.92	0.78	1.78	1.78	30.34	8.32	1.57	1.00	0.70	
22	9.28	2.95	1.24	0.90	0.78	1.47	1.64	59.06	7.23	1.47	1.00	0.72	
23	5.52	3.30	1.12	0.88	0.76	1.28	1.50	52.06	6.36	1.47	1.00	0.72	
24	4.00	3.20	1.02	0.88	0.76	1.16	1.82	45.65	6.12	1.43	0.98	0.70	
25	3.55	5.64	1.14	0.98	0.72	1.06	1.64	26.77	5.70	1.40	0.96	0.70	
26	2.54	6.81	2.58	3.05	0.78	1.00	1.43	17.30	5.30	1.38	0.96	0.68	
27	1.78	6.18	2.86	2.62	0.78	0.92	1.50	13.60	4.95	1.36	0.94	0.68	
28	1.47	11.44	2.74	1.75	0.86	0.84	7.02	10.24	4.60	1.32	0.92	0.62	
29	1.40	10.56	3.35	1.36	0.88	0.82	8.32	9.20	4.20	1.32		0.60	
30	1.28	15.50	3.10	1.28	0.88	0.90	10.40	9.52	4.00	1.30		0.58	
31		13.60		1.24	0.88		6.24		3.85	1.30		0.56	
TOTAL	86.94	159.77	104.64	38.86	25.86	43.47	60.33	501.67	590.85	64.61	30.54	23.54	1731.08 CMSDAY
MEAN	2.90	5.15	3.49	1.25	0.83	1.45	1.95	16.72	19.06	2.08	1.09	0.76	4.74 CMS
MAX	10.40	15.50	10.72	3.05	1.20	3.80	10.40	59.06	57.24	3.70	1.28	1.02	59.06 CMS
MIN	0.60	1.78	1.02	0.78	0.66	0.72	0.66	3.10	3.85	1.30	0.92	0.56	0.56 CMS
RUNOFF	7.512	13.804	9.041	3.357	2.234	3.756	5.213	43.344	51.049	5.582	2.639	2.034	149.565 MCM

MOMENTARY PEAK 62.70 CMS, AT 6.80 M (A.D), AT 6.00 HOURS, ON NOV 22, 1981

RUNOFF YIELD 10.71 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 141.54 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG U TAPHAO AT HAT YAI, 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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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, 1981 TO MARCH 31, 1982

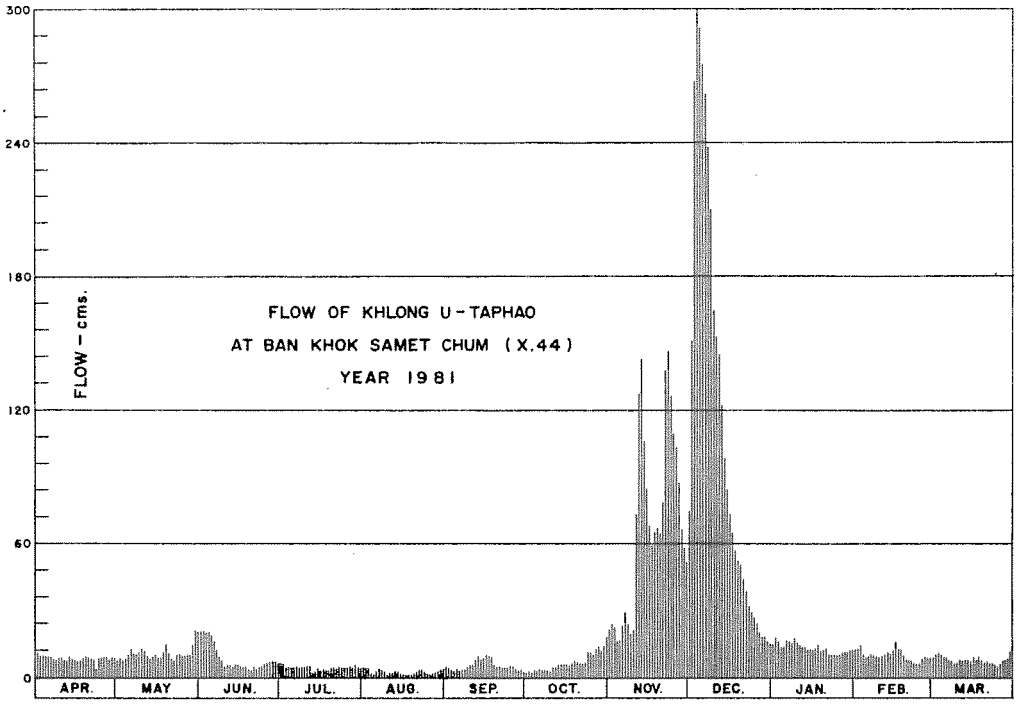
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.12	0.97	1.43	0.90	0.85	0.85	0.73	1.45	2.71	1.29	1.20	0.99	
2	1.05	1.01	1.43	0.90	0.85	0.82	0.75	1.54	4.06	1.35	1.20	1.08	
3	1.06	0.97	1.42	0.80	0.85	0.78	0.73	1.48	5.80	1.30	1.22	1.13	
4	1.04	1.00	1.42	0.78	0.71	0.77	0.78	1.31	6.28	1.23	1.10	1.09	
5	1.03	1.08	1.37	0.79	0.65	0.82	0.77	1.31	6.16	1.24	1.02	1.05	
6	1.03	1.16	1.29	0.78	0.75	0.76	0.82	1.51	5.93	1.30	1.07	0.93	
7	1.00	1.08	1.16	0.83	0.82	0.79	0.78	1.66	5.75	1.30	1.09	0.97	
8	0.99	1.09	1.03	0.80	0.78	0.79	0.79	1.50	5.41	1.27	1.07	0.96	
9	1.01	1.12	0.96	0.81	0.75	0.84	0.79	1.41	4.98	1.32	1.06	0.92	
10	1.02	1.20	0.86	0.79	0.66	0.90	0.77	1.45	4.47	1.26	1.05	0.95	
11	0.97	1.13	0.88	0.83	0.73	0.88	0.83	2.56	4.11	1.22	1.07	1.01	
12	0.97	1.04	0.88	0.83	0.73	0.97	0.87	3.67	3.96	1.20	1.10	0.98	
13	1.03	1.00	0.85	0.73	0.77	1.04	0.90	3.94	3.59	1.19	1.11	0.99	
14	1.00	1.03	0.90	0.74	0.76	1.00	0.95	3.28	3.18	1.16	1.08	0.99	
15	0.97	1.07	0.90	0.81	0.69	1.03	0.92	2.90	2.88	1.17	1.16	0.96	
16	0.96	1.02	0.84	0.76	0.67	1.09	0.91	2.58	2.67	1.15	1.31	1.02	
17	0.98	1.01	0.85	0.79	0.66	1.07	0.89	2.38	2.50	1.19	1.20	0.99	
18	1.01	1.13	0.86	0.78	0.67	0.98	0.94	2.51	2.35	1.26	1.16	1.04	
19	1.04	1.26	0.80	0.76	0.64	0.90	0.97	2.55	2.25	1.14	1.11	0.99	
20	1.02	1.13	0.76	0.84	0.70	0.86	0.96	2.49	2.21	1.16	1.00	0.96	
21	1.00	1.00	0.84	0.84	0.72	0.90	0.93	2.78	2.06	1.20	0.98	0.96	
22	0.98	0.97	0.82	0.83	0.78	0.82	0.94	3.86	1.92	1.09	0.98	0.92	
23	0.77	1.08	0.85	0.87	0.78	0.81	0.95	4.00	1.76	1.08	0.95	0.93	
24	1.00	1.08	0.86	0.83	0.75	0.82	1.11	3.68	1.68	1.09	0.91	0.91	
25	1.02	1.07	0.88	0.85	0.68	0.88	1.14	3.40	1.63	1.08	0.94	0.85	
26	1.03	1.07	0.95	0.84	0.68	0.89	1.09	3.25	1.53	1.09	1.01	0.92	
27	1.01	1.10	0.93	0.87	0.69	0.81	1.19	2.96	1.43	1.11	1.05	0.97	
28	0.99	1.09	0.97	0.84	0.69	0.76	1.22	2.63	1.35	1.13	1.01	0.98	
29	1.03	1.22	0.94	0.89	0.76	0.81	1.16	2.41	1.36	1.11		1.05	
30	1.00	1.44	0.92	0.83	0.77	0.75	1.24	2.24	1.31	1.16		1.13	
31		1.43		0.83	0.81		1.37		1.27	1.18		1.03	
MEAN	1.00	1.10	0.99	0.82	0.74	0.87	0.94	2.49	3.18	1.19	1.08	0.99	
MAX	1.12	1.44	1.43	0.90	0.85	1.09	1.37	4.00	6.28	1.35	1.31	1.13	6.28
MIN	0.77	0.97	0.76	0.73	0.64	0.75	0.73	1.31	1.27	1.08	0.91	0.85	0.64

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.28 M (A.D), AT 6.00 HOURS, ON DEC 4, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	11.00	7.25	20.55	5.50	4.50	4.50	2.10	21.25	75.50	15.70	13.00	7.75	
2	9.25	8.25	20.55	5.50	4.50	3.90	2.50	24.40	150.60	17.75	13.00	10.00	
3	9.50	7.25	20.20	3.50	4.50	3.10	2.10	22.30	266.00	16.00	13.60	11.25	
4	9.00	8.00	20.20	3.10	1.70	2.90	3.10	16.35	300.50	13.90	10.50	10.25	
5	8.75	10.00	18.45	3.30	0.75	3.90	2.90	16.35	291.50	14.20	8.50	9.25	
6	8.75	12.00	15.70	3.10	2.50	2.70	3.90	23.35	275.10	16.00	9.75	6.25	
7	8.00	10.00	12.00	4.10	3.90	3.30	3.10	28.60	262.50	16.00	10.25	7.25	
8	7.75	10.25	8.75	3.50	3.10	3.30	3.30	23.00	238.70	15.10	9.75	7.00	
9	8.25	11.00	7.00	3.70	2.50	4.30	3.30	19.85	208.60	16.70	9.50	6.00	
10	8.50	13.00	4.70	3.30	0.90	5.50	2.90	21.25	175.20	14.80	9.25	6.75	
11	7.25	11.25	5.10	4.10	2.10	5.10	4.10	68.00	153.60	13.60	9.75	8.25	
12	7.25	9.00	5.10	4.10	2.10	7.25	4.90	127.20	144.60	13.00	10.50	7.50	
13	8.75	8.00	4.50	2.10	2.90	9.00	5.50	143.40	122.40	12.75	10.75	7.75	
14	8.00	8.75	5.50	2.30	2.70	8.00	6.75	104.90	99.40	12.00	10.00	7.75	
15	7.25	9.75	5.50	3.70	1.35	8.75	6.00	85.00	84.00	12.25	12.00	7.00	
16	7.00	8.50	4.30	2.70	1.05	10.25	5.75	69.00	73.50	11.75	16.35	8.50	
17	7.50	8.25	4.50	3.30	0.90	9.75	5.30	59.00	65.00	12.75	13.00	7.75	
18	8.25	11.25	4.70	3.10	1.05	7.50	6.50	65.50	57.50	14.80	12.00	9.00	
19	9.00	14.80	3.50	2.70	0.60	5.50	7.25	67.50	52.75	11.50	10.75	7.75	
20	8.50	11.25	2.70	4.30	1.50	4.70	7.00	64.50	50.95	12.00	8.00	7.00	
21	8.00	8.00	4.30	4.30	1.90	5.30	6.25	79.00	44.40	13.00	7.50	7.00	
22	7.50	7.25	3.90	4.10	3.10	3.90	6.50	138.60	38.80	10.25	7.50	6.00	
23	2.90	10.00	4.50	4.90	3.10	3.70	6.75	147.00	32.40	10.00	6.75	6.25	
24	8.00	10.00	4.70	4.10	2.50	3.90	10.75	127.80	29.30	10.25	5.75	5.75	
25	8.50	9.75	5.10	4.50	1.20	5.10	11.50	111.50	27.55	10.00	6.50	4.50	
26	8.75	9.75	6.75	4.30	1.20	5.30	10.25	103.25	24.05	10.25	8.25	6.00	
27	8.25	10.50	6.25	4.90	1.35	3.70	12.75	88.00	20.55	10.75	9.25	7.25	
28	7.75	10.25	7.25	4.30	1.35	2.70	13.60	71.50	17.75	11.25	8.25	7.50	
29	8.75	13.60	6.50	5.30	2.70	3.70	12.00	60.50	18.10	10.75		9.25	
30	8.00	20.90	6.00	4.10	2.90	2.50	14.20	52.30	16.35	12.00		11.25	
31		20.55		4.10	3.70		18.45		15.10	12.50		8.75	
TOTAL	243.90	328.35	248.75	119.90	70.10	153.20	211.25	2050.15	3432.25	403.55	279.95	239.50	7780.84 CMSDAY
MEAN	8.13	10.59	8.29	3.87	2.26	5.11	6.81	68.34	110.72	13.02	10.00	7.73	21.32 CMS
MAX	11.00	20.90	20.55	5.50	4.50	10.25	18.45	147.00	300.50	17.75	16.35	11.25	300.50 CMS
MIN	2.90	7.25	2.70	2.10	0.60	2.50	2.10	16.35	15.10	10.00	5.75	4.50	0.60 CMS
RUNOFF	21.073	28.369	21.492	10.359	6.057	13.236	18.252	177.133	296.546	34.867	24.188	20.693	672.265 MCM

MOMENTARY PEAK 300.50 CMS, AT 6.28 M (A.D), AT 6.00 HOURS, ON DEC 4, 1981

RUNOFF YIELD 12.25 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 172.70 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 AT — +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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

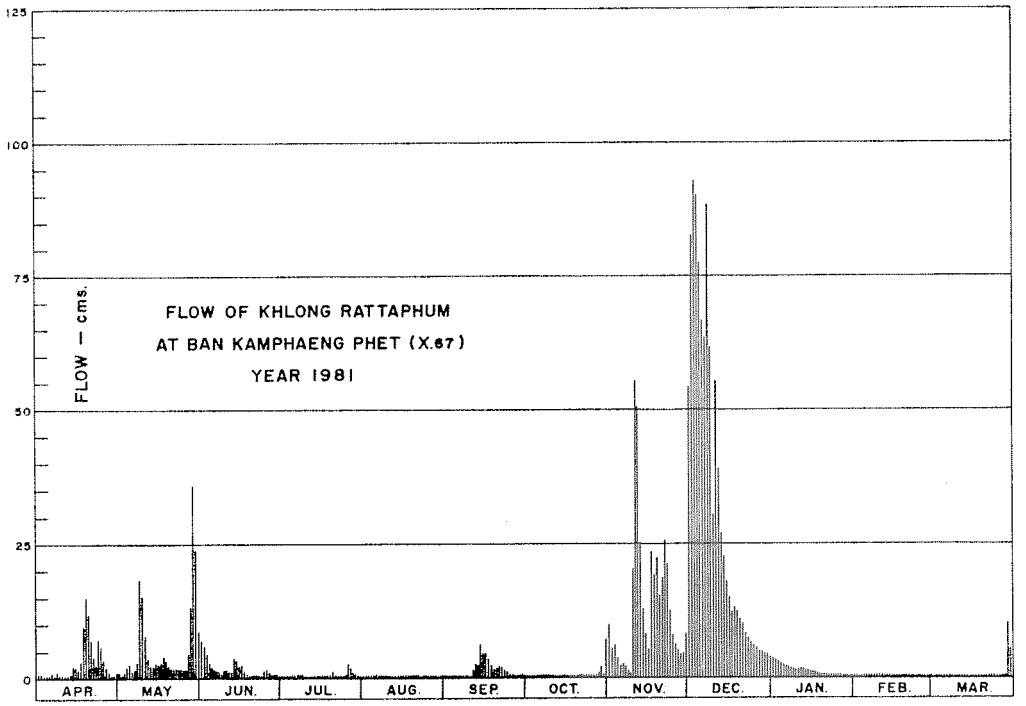
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 283 DISCHARGE MEASUREMENTS MADE DURING 1967-1972. FLOW REGULATED BY RATTAPHUM WEIR FOR IRRIGATION OF ABOUT 10,688 HECTARES.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	-0.25	0.02	0.68	-0.22	-0.10	-0.39	-0.34	0.87	1.22	0.34	-0.17	-0.12	
2	-0.25	-0.09	0.54	-0.37	-0.12	-0.41	-0.39	0.47	3.23	0.32	-0.16	-0.15	
3	-0.24	-0.05	0.38	-0.37	-0.13	-0.43	-0.35	0.56	3.88	0.30	-0.16	-0.14	
4	-0.18	0.14	0.26	-0.38	-0.21	-0.32	-0.37	0.35	3.85	0.28	-0.17	-0.14	
5	-0.23	0.21	0.18	-0.38	-0.32	-0.28	-0.40	0.19	3.43	0.26	-0.17	-0.15	
6	0.00	0.08	0.09	-0.38	-0.35	-0.17	-0.41	0.13	3.11	0.26	-0.19	-0.16	
7	-0.70	0.09	0.05	-0.39	-0.37	-0.30	-0.36	0.24	3.00	0.24	-0.22	-0.17	
8	0.04	0.17	0.03	-0.42	-0.33	-0.29	-0.35	0.08	3.76	0.19	-0.19	-0.18	
9	-0.08	1.32	-0.08	-0.33	-0.44	-0.28	-0.38	0.05	2.69	0.14	-0.19	-0.15	
10	-0.21	1.05	0.05	-0.40	-0.35	-0.26	-0.31	1.16	1.82	0.11	-0.23	-0.15	
11	-0.20	0.47	0.08	-0.36	-0.35	-0.39	-0.33	2.75	2.76	0.10	-0.18	-0.17	
12	-0.07	0.29	0.04	-0.35	-0.38	0.25	-0.36	2.42	2.35	0.19	-0.18	-0.18	
13	-0.02	0.20	0.10	-0.33	-0.39	0.21	-0.39	1.26	1.67	0.07	-0.19	-0.18	
14	0.13	0.12	0.33	-0.42	-0.39	0.56	-0.29	0.78	1.44	0.05	-0.20	-0.20	
15	0.17	0.30	0.19	-0.41	-0.42	0.41	-0.31	0.64	1.26	0.04	-0.22	-0.19	
16	-0.02	0.13	0.21	-0.41	-0.43	0.43	-0.34	0.87	1.12	0.04	-0.28	-0.18	
17	0.25	0.23	0.11	-0.44	-0.43	0.27	-0.28	1.53	1.00	0.03	-0.25	-0.21	
18	0.68	0.37	0.00	-0.27	-0.41	0.15	-0.36	1.36	1.02	-0.02	-0.22	-0.22	
19	1.14	0.17	-0.08	-0.46	-0.41	0.08	-0.39	1.49	0.89	-0.03	-0.27	-0.22	
20	0.88	0.18	-0.10	-0.39	-0.42	0.14	-0.40	1.17	0.89	-0.04	-0.12	-0.21	
21	0.45	0.04	-0.09	-0.37	-0.40	0.18	-0.11	1.22	0.75	-0.04	-0.23	-0.25	
22	0.26	-0.01	-0.13	0.03	-0.40	0.14	-0.24	1.66	0.68	-0.05	-0.21	-0.25	
23	0.18	0.05	-0.17	-0.31	-0.40	0.08	-0.37	1.18	0.62	-0.07	-0.21	-0.24	
24	0.65	0.17	-0.18	-0.38	-0.40	0.03	-0.35	0.86	0.58	-0.09	-0.23	-0.26	
25	0.41	0.04	0.18	-0.39	-0.41	-0.06	-0.33	0.68	0.53	-0.09	-0.21	-0.23	
26	0.19	0.03	0.00	0.25	-0.42	-0.18	-0.38	0.56	0.50	-0.11	-0.20	-0.19	
27	0.18	0.03	-0.10	0.10	-0.40	-0.23	-0.25	0.51	0.48	-0.12	-0.21	0.09	
28	-0.13	0.94	-0.10	-0.03	-0.38	-0.27	-0.19	0.39	0.39	-0.14	-0.05	0.13	
29	-0.11	2.11	-0.04	-0.09	-0.39	-0.27	0.16	0.44	0.38	-0.16		0.83	
30	-0.13	1.46	-0.12	-0.08	-0.35	-0.30	-0.11	0.41	0.35	-0.15		0.35	
31		0.79		-0.06	-0.27		0.57		0.36	-0.16		0.11	
MEAN	0.09	0.36	0.08	-0.28	-0.35	-0.06	-0.28	0.88	1.61	0.05	-0.20	-0.11	
MAX	1.14	2.11	0.68	0.25	-0.10	0.56	0.57	2.75	3.88	0.34	-0.05	0.83	3.88
MIN	-0.70	-0.09	-0.18	-0.46	-0.44	-0.43	-0.41	0.05	0.35	-0.16	-0.28	-0.26	-0.70

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.88 M (A.D), AT 9.00 HOURS, ON DEC 3, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	1.12	7.82	0.16	0.40	0.00	0.00	10.72	16.88	3.64	0.26	0.36	
2	0.10	0.46	5.92	0.00	0.36	0.00	0.00	5.07	70.49	3.42	0.28	0.30	
3	0.12	0.70	4.08	0.00	0.34	0.00	0.00	6.18	92.60	3.20	0.28	0.32	
4	0.24	1.88	2.84	0.00	0.18	0.00	0.00	3.75	91.55	3.02	0.26	0.32	
5	0.14	2.39	2.16	0.00	0.00	0.04	0.00	2.23	77.22	2.84	0.26	0.30	
6	1.00	1.48	1.54	0.00	0.00	0.26	0.00	1.81	66.53	2.84	0.22	0.28	
7	0.00	1.54	1.30	0.00	0.00	0.00	0.00	2.66	63.00	2.66	0.16	0.26	
8	1.24	2.09	1.18	0.00	0.00	0.02	0.00	1.48	88.44	2.23	0.22	0.24	
9	0.52	18.80	0.52	0.00	0.00	0.04	0.00	1.30	53.19	1.88	0.22	0.30	
10	0.18	13.75	1.30	0.00	0.00	0.08	0.00	15.74	29.58	1.67	0.14	0.30	
11	0.20	5.07	1.48	0.00	0.00	0.00	0.00	55.05	55.36	1.60	0.24	0.26	
12	0.58	3.11	1.24	0.00	0.00	2.75	0.00	45.26	43.30	2.23	0.24	0.24	
13	0.88	2.30	1.60	0.00	0.00	2.39	0.00	17.64	26.14	1.42	0.22	0.24	
14	1.81	1.74	3.53	0.00	0.00	6.18	0.02	9.30	21.24	1.30	0.20	0.20	
15	2.09	3.20	2.23	0.00	0.00	4.41	0.00	7.26	17.64	1.24	0.16	0.22	
16	0.88	1.81	2.39	0.00	0.00	4.63	0.00	10.72	14.98	1.24	0.04	0.24	
17	2.75	2.57	1.67	0.00	0.00	2.93	0.04	23.13	12.90	1.18	0.10	0.18	
18	7.82	3.97	1.00	0.06	0.00	1.95	0.00	19.60	13.24	0.88	0.16	0.16	
19	15.36	2.09	0.52	0.00	0.00	1.48	0.00	22.29	11.04	0.82	0.06	0.16	
20	10.88	2.18	0.40	0.00	0.00	1.88	0.00	15.93	11.04	0.76	0.36	0.18	
21	4.85	1.24	0.46	0.00	0.00	2.16	0.38	16.88	8.85	0.76	0.14	0.10	
22	2.84	0.94	0.34	1.18	0.00	1.88	0.12	25.92	7.82	0.70	0.18	0.10	
23	2.16	1.30	0.26	0.00	0.00	1.48	0.00	16.12	6.98	0.58	0.18	0.12	
24	7.40	2.09	0.24	0.00	0.00	1.18	0.00	10.56	6.44	0.46	0.14	0.08	
25	4.41	1.24	2.16	0.00	0.00	0.64	0.00	7.82	5.79	0.46	0.18	0.14	
26	2.23	1.18	1.00	2.75	0.00	0.24	0.00	6.18	5.40	0.38	0.20	0.22	
27	2.16	1.18	0.40	1.60	0.00	0.14	0.10	5.53	5.18	0.36	0.18	1.54	
28	0.34	11.88	0.40	0.82	0.00	0.06	0.22	4.19	4.19	0.32	0.70	1.81	
29	0.38	36.86	0.76	0.46	0.00	0.06	2.02	4.74	4.08	0.28		10.08	
30	0.34	21.65	0.36	0.52	0.00	0.00	0.38	4.41	3.75	0.30		3.75	
31		9.45		0.64	0.06		6.31		3.86	0.28		1.67	
TOTAL	74.00	161.25	51.10	8.19	1.34	36.88	9.59	379.47	938.70	44.95	5.98	24.67	1736.12 CMSDAY
MEAN	2.47	5.20	1.70	0.26	0.04	1.23	0.31	12.65	30.28	1.45	0.21	0.80	4.76 CMS
MAX	15.36	36.86	7.82	2.75	0.40	6.18	6.31	55.05	92.60	3.64	0.70	10.08	92.60 CMS
MIN	0.00	0.46	0.24	0.00	0.00	0.00	0.00	1.30	3.75	0.28	0.04	0.08	0.00 CMS
RUNOFF	6.394	13.932	4.415	0.708	0.116	3.186	0.829	32.786	81.104	3.884	0.517	2.131	150.001 MCM

MOMENTARY PEAK 92.60 CMS, AT 3.88 M (A.D), AT 9.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD 17.49 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 340.44 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

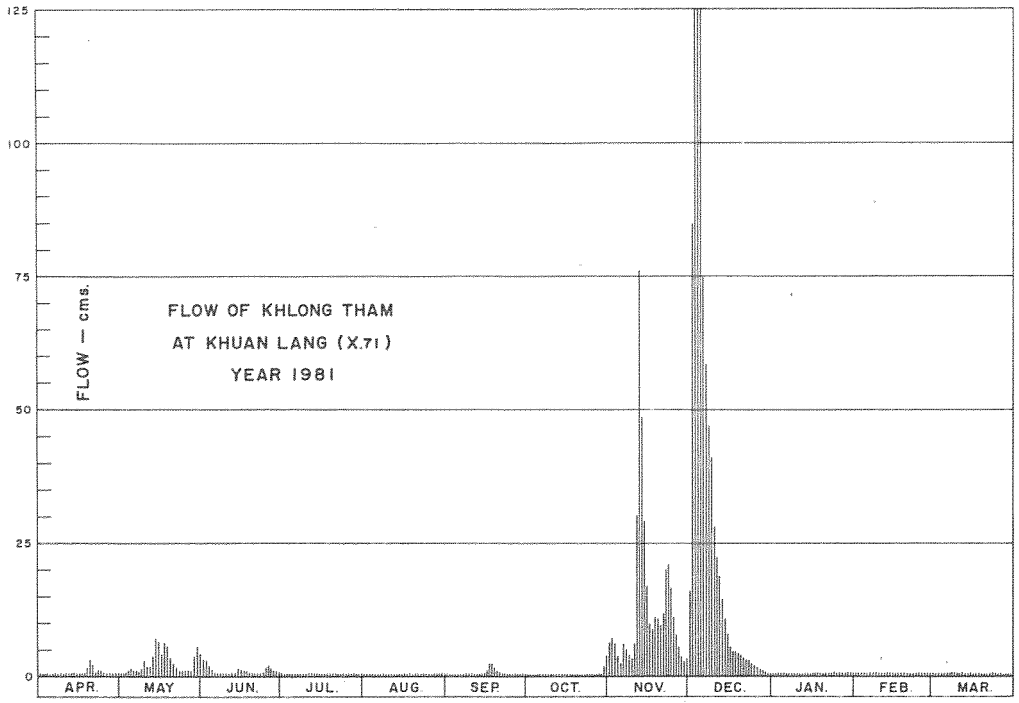
KHLONG THAM AT KHUAN LANG, SONGKHLA (X.71)

LOCATION	LAT. 6°-59'-33" N., LONG. 100°-25'-57" E., ON RIGHT BANK DOWNSTREAM SIDE OF THE BRIDGE OF PHET KASEM HIGHWAY AT KHUAN LANG, AMPHOE HAT YAI, SONGKHLA.
DRAINAGE AREA	127 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 12 METERS FROM THE BRIDGE.
ELEVATION	+6.569 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	1961-1971
RATED BY FLOAT	-
RATED BY CURRENT METER	1961-1971
STABILITY OF CHANNEL REGIMES	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 153 DISCHARGE MEASUREMENTS MADE DURING 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.37	1.58	2.53	1.80	1.51	1.42	1.58	3.27	4.06	1.79	1.51	1.50	
2	1.38	1.56	2.42	1.64	1.49	1.41	1.55	3.27	6.02	1.77	1.51	1.49	
3	1.47	1.55	2.27	1.68	1.47	1.42	1.53	2.95	7.19	1.78	1.50	1.48	
4	1.48	1.92	2.10	1.62	1.48	1.46	1.51	2.52	7.16	1.75	1.49	1.49	
5	1.50	2.13	1.98	1.60	1.47	1.54	1.50	2.26	7.00	1.74	1.49	1.49	
6	1.48	1.97	1.80	1.57	1.46	1.56	1.50	3.11	6.68	1.74	1.49	1.49	
7	1.47	1.85	1.76	1.54	1.46	1.58	1.53	2.94	6.48	1.71	1.49	1.50	
8	1.46	1.78	1.73	1.52	1.46	1.57	1.53	2.67	6.07	1.70	1.49	1.47	
9	1.47	1.91	1.71	1.51	1.45	1.57	1.54	2.40	5.97	1.69	1.49	1.47	
10	1.47	2.36	1.72	1.52	1.47	1.55	1.56	3.00	5.53	1.67	1.48	1.50	
11	1.49	2.05	1.75	1.58	1.45	1.56	1.53	5.13	5.03	1.68	1.48	1.51	
12	1.51	1.95	1.74	1.58	1.44	1.58	1.51	6.73	4.75	1.68	1.47	1.50	
13	1.62	2.16	1.72	1.58	1.42	1.59	1.45	6.26	4.26	1.69	1.47	1.51	
14	1.57	2.76	1.89	1.53	1.41	1.57	1.50	5.10	3.66	1.69	1.46	1.51	
15	1.76	3.25	2.05	1.56	1.40	1.59	1.52	4.11	3.28	1.68	1.47	1.51	
16	1.62	2.93	1.95	1.53	1.39	2.09	1.54	3.40	3.02	1.64	1.47	1.50	
17	1.58	2.61	1.88	1.51	1.38	2.35	1.56	3.46	2.80	1.64	1.47	1.46	
18	1.60	3.11	1.78	1.50	1.39	2.06	1.56	3.85	2.73	1.63	1.45	1.42	
19	2.10	2.92	1.72	1.48	1.38	1.99	1.57	3.80	2.70	1.63	1.44	1.49	
20	2.45	2.59	1.68	1.48	1.37	1.90	1.62	3.55	2.66	1.62	1.44	1.49	
21	2.22	2.28	1.65	1.46	1.36	1.81	1.61	3.91	2.54	1.62	1.43	1.50	
22	1.91	2.04	1.62	1.47	1.36	1.76	1.63	4.84	2.41	1.61	1.45	1.50	
23	1.82	1.90	1.62	1.48	1.36	1.71	1.60	5.01	2.29	1.60	1.46	1.45	
24	1.74	1.89	1.63	1.46	1.38	1.67	1.58	4.21	2.19	1.58	1.46	1.46	
25	1.92	1.72	2.03	1.44	1.38	1.65	1.56	3.52	2.14	1.57	1.46	1.48	
26	1.81	1.84	2.18	1.46	1.37	1.62	1.53	3.09	2.07	1.57	1.44	1.48	
27	1.69	1.84	2.07	1.53	1.36	1.61	1.56	2.78	2.03	1.56	1.46	1.54	
28	1.67	1.89	1.97	1.51	1.37	1.61	1.60	2.50	1.98	1.57	1.51	1.54	
29	1.63	2.82	1.89	1.54	1.42	1.59	1.74	2.37	1.90	1.55		1.58	
30	1.61	2.98	1.86	1.52	1.40	1.54	1.71	2.44	1.83	1.53		1.58	
31		2.73		1.53	1.41		2.72		1.81	1.52		1.60	
MEAN	1.66	2.22	1.89	1.54	1.42	1.66	1.60	3.61	3.88	1.65	1.47	1.50	
MAX	2.45	3.25	2.53	1.80	1.51	2.35	2.72	6.73	7.19	1.79	1.51	1.60	7.19
MIN	1.37	1.55	1.62	1.44	1.36	1.41	1.45	2.26	1.81	1.52	1.43	1.42	1.36

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.24 M (A.D), AT 15.00 HOURS, ON MAY 3, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.05 M (A.D)
LEFT BANK ELEVATION 7.38 M (A.D)
RIGHT BANK ELEVATION 7.56 M (A.D), DRAINAGE AREA 127 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.07	0.28	3.32	0.70	0.21	0.12	0.28	7.22	12.78	0.67	0.21	0.20	
2	0.08	0.26	2.88	0.34	0.19	0.11	0.25	7.22	36.66	0.61	0.21	0.19	
3	0.17	0.25	2.28	0.38	0.17	0.12	0.23	5.35	169.30	0.64	0.20	0.18	
4	0.18	1.06	1.60	0.32	0.18	0.16	0.21	3.28	161.20	0.55	0.19	0.19	
5	0.20	1.72	1.24	0.30	0.17	0.24	0.20	2.24	125.00	0.52	0.19	0.19	
6	0.18	1.21	0.70	0.27	0.16	0.26	0.20	6.26	69.00	0.52	0.19	0.19	
7	0.17	0.85	0.58	0.24	0.16	0.28	0.23	5.30	52.90	0.43	0.19	0.20	
8	0.16	0.64	0.49	0.22	0.16	0.27	0.23	3.95	37.81	0.40	0.19	0.17	
9	0.17	1.03	0.43	0.21	0.15	0.27	0.24	2.80	35.54	0.39	0.19	0.17	
10	0.17	2.64	0.46	0.22	0.17	0.25	0.26	5.60	27.92	0.37	0.18	0.20	
11	0.19	1.45	0.55	0.28	0.15	0.26	0.23	22.76	21.63	0.38	0.18	0.21	
12	0.21	1.15	0.52	0.28	0.14	0.28	0.21	75.50	18.85	0.38	0.17	0.20	
13	0.32	1.84	0.46	0.28	0.12	0.29	0.15	43.28	14.44	0.39	0.17	0.21	
14	0.27	4.40	0.97	0.23	0.11	0.27	0.20	22.40	9.82	0.39	0.16	0.21	
15	0.58	7.10	1.45	0.26	0.10	0.29	0.22	13.18	7.28	0.38	0.17	0.21	
16	0.32	5.25	1.15	0.23	0.09	1.57	0.24	8.00	5.72	0.34	0.17	0.20	
17	0.28	3.65	0.94	0.21	0.08	2.60	0.26	8.42	4.60	0.34	0.17	0.16	
18	0.30	6.26	0.64	0.20	0.09	1.48	0.26	11.15	4.25	0.33	0.15	0.12	
19	1.60	5.20	0.46	0.18	0.08	1.27	0.27	10.80	4.10	0.33	0.14	0.19	
20	3.00	3.56	0.38	0.18	0.07	1.00	0.32	9.05	3.90	0.32	0.14	0.19	
21	2.08	2.32	0.35	0.16	0.06	0.73	0.31	11.58	3.36	0.32	0.13	0.20	
22	1.03	1.42	0.32	0.17	0.06	0.58	0.33	19.70	2.84	0.31	0.15	0.20	
23	0.76	1.00	0.32	0.18	0.06	0.43	0.30	21.41	2.36	0.30	0.16	0.15	
24	0.52	0.97	0.33	0.16	0.08	0.37	0.28	13.99	1.96	0.28	0.16	0.16	
25	1.06	0.46	1.39	0.14	0.08	0.35	0.26	8.84	1.76	0.27	0.16	0.18	
26	0.73	0.82	1.92	0.16	0.07	0.32	0.23	6.14	1.51	0.27	0.14	0.18	
27	0.39	0.82	1.51	0.23	0.06	0.31	0.26	4.50	1.39	0.26	0.16	0.24	
28	0.37	0.97	1.21	0.21	0.07	0.31	0.30	3.20	1.24	0.27	0.21	0.24	
29	0.33	4.70	0.97	0.24	0.12	0.29	0.52	2.68	1.00	0.25		0.28	
30	0.31	5.50	0.88	0.22	0.10	0.24	0.43	2.96	0.79	0.23		0.28	
31		4.25		0.23	0.11		4.20		0.73	0.22		0.30	
TOTAL	16.20	73.03	30.70	7.63	3.62	15.32	12.11	368.76	841.64	11.66	4.83	6.19	1391.69 CMSDAY
MEAN	0.54	2.36	1.02	0.25	0.12	0.51	0.39	12.29	27.15	0.38	0.17	0.20	3.81 CMS
MAX	3.00	7.10	3.32	0.70	0.21	2.60	4.20	75.50	169.30	0.67	0.21	0.30	169.30 CMS
MIN	0.07	0.25	0.32	0.14	0.06	0.11	0.15	2.24	0.73	0.22	0.13	0.12	0.06 CMS
RUNOFF	1.400	6.310	2.652	0.659	0.313	1.324	1.046	31.861	72.718	1.007	0.417	0.535	120.242 MCM

MOMENTARY PEAK 184.40 CMS, AT 7.24 M (A.D), AT 15.00 HOURS, ON MAY 3, 1981

RUNOFF YIELD 30.02 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1451.97 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 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 AT — +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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 47 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

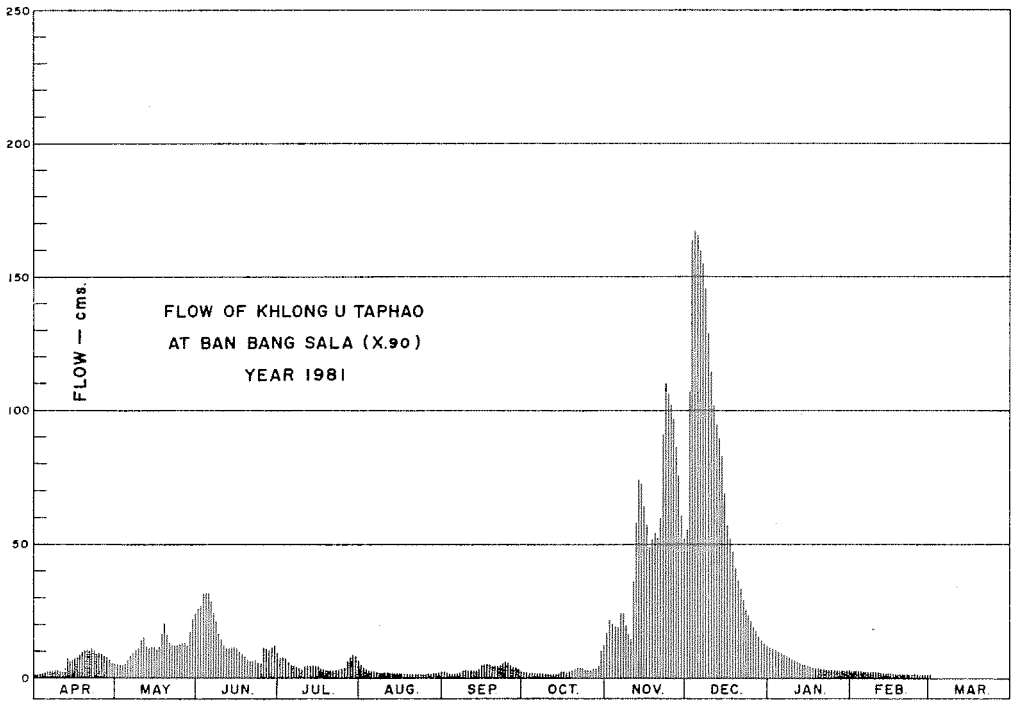
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	1.39	3.10	1.76	1.40	1.02	1.02	2.49	4.60	2.05	1.02	0.77	
2	0.72	1.38	3.19	1.73	1.29	0.97	1.00	2.77	6.06	2.01	1.01	0.76	
3	0.73	1.35	3.39	1.70	1.23	0.90	0.97	2.74	7.65	1.97	1.00	0.76	
4	0.73	1.36	3.48	1.60	1.24	0.85	0.95	2.63	7.72	1.85	0.99	0.76	
5	0.92	1.52	3.45	1.49	1.08	0.84	0.93	2.61	7.65	1.81	0.97	0.76	
6	1.03	1.67	3.24	1.42	1.05	0.90	0.92	2.87	7.58	1.76	0.97	0.76	
7	0.96	1.73	2.91	1.39	1.04	0.95	0.90	2.98	7.52	1.70	0.96	0.75	
8	0.99	1.90	2.57	1.34	1.02	1.05	0.92	2.60	7.28	1.64	0.94	0.74	
9	1.02	1.99	2.35	1.30	0.99	1.11	0.85	2.31	6.92	1.61	0.92	0.74	
10	1.08	2.14	2.18	1.27	0.98	1.22	0.83	2.28	6.52	1.55	0.92	0.73	
11	0.94	2.39	2.00	1.35	0.97	1.10	0.82	3.26	6.18	1.52	0.91	0.73	
12	1.14	2.14	1.90	1.37	0.95	1.09	0.83	4.91	6.08	1.48	0.89	0.72	
13	1.62	2.05	2.01	1.36	0.93	1.09	0.85	5.43	5.82	1.46	0.88	0.71	
14	1.52	2.03	2.05	1.33	0.91	1.18	1.03	5.18	5.69	1.43	0.86	0.70	
15	1.59	2.15	2.02	1.32	0.91	1.37	1.03	4.96	4.97	1.38	0.86	0.70	
16	1.68	2.05	1.97	1.30	0.90	1.40	1.02	4.65	4.70	1.35	0.86	0.70	
17	1.70	2.01	1.81	1.27	0.89	1.43	0.99	4.31	4.45	1.33	0.85	0.70	
18	1.79	2.16	1.70	1.23	0.87	1.45	0.93	4.54	4.24	1.30	0.84	0.69	
19	1.94	2.70	1.64	1.19	0.85	1.34	1.04	4.62	4.01	1.26	0.83	0.69	
20	1.89	2.41	1.58	1.16	0.84	1.34	1.14	4.51	3.77	1.23	0.83	0.68	
21	1.89	2.19	1.49	1.14	0.83	1.32	1.29	4.73	3.52	1.21	0.82	0.68	
22	2.02	2.09	1.44	1.12	0.81	1.31	1.21	6.07	3.30	1.18	0.81	0.67	
23	1.75	2.10	1.42	1.10	0.80	1.46	1.26	6.52	3.04	1.16	0.81	0.66	
24	1.79	2.09	1.38	1.09	0.79	1.47	1.20	6.36	2.86	1.12	0.80	0.66	
25	1.79	2.09	1.48	1.09	0.78	1.39	1.17	6.26	2.72	1.10	0.80	0.65	
26	1.75	2.16	2.05	1.10	0.77	1.34	1.18	6.14	2.57	1.10	0.80	0.65	
27	1.70	2.19	1.92	1.50	0.79	1.26	1.23	5.70	2.46	1.09	0.79	0.67	
28	1.67	2.11	1.92	1.64	0.79	1.19	1.25	5.12	2.35	1.09	0.79	0.67	
29	1.53	2.43	2.08	1.71	0.84	1.15	1.25	4.72	2.29	1.07		0.72	
30	1.41	2.88	2.04	1.73	0.90	1.05	1.51	4.45	2.18	1.06		0.82	
31		3.01		1.58	1.00		2.12		2.11	1.05		0.98	
MEAN	1.40	2.06	2.19	1.38	0.95	1.18	1.09	4.29	4.80	1.42	0.88	0.72	
MAX	2.02	3.01	3.48	1.76	1.40	1.47	2.12	6.52	7.72	2.05	1.02	0.98	7.72
MIN	0.72	1.35	1.38	1.09	0.77	0.84	0.82	2.28	2.11	1.05	0.79	0.65	0.65

ANNUAL MAX MOMENTARY GAGE HEIGHT 7.78 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.03 M (A.D)

LEFT BANK ELEVATION 8.53 M (A.D)

RIGHT BANK ELEVATION 8.36 M (A.D), DRAINAGE AREA 1562 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.15	4.90	26.00	8.60	5.00	2.60	2.60	17.12	54.00	11.62	2.60	1.35	
2	1.10	4.80	27.57	8.30	3.95	2.35	2.50	21.05	93.80	11.12	2.55	1.30	
3	1.15	4.50	31.07	8.00	3.65	2.00	2.35	20.60	163.00	10.70	2.50	1.30	
4	1.15	4.60	32.65	7.00	3.70	1.75	2.25	18.95	167.20	9.50	2.45	1.30	
5	2.10	6.20	32.12	5.90	2.90	1.70	2.15	18.65	163.00	9.10	2.35	1.30	
6	2.65	7.70	28.45	5.20	2.75	2.00	2.10	22.55	158.95	8.60	2.35	1.30	
7	2.30	8.30	23.15	4.90	2.70	2.25	2.00	24.20	155.80	8.00	2.30	1.25	
8	2.45	10.00	18.12	4.40	2.60	2.75	2.10	18.50	143.20	7.40	2.20	1.20	
9	2.60	10.90	15.37	4.00	2.45	3.05	1.75	14.87	126.80	7.10	2.10	1.20	
10	2.90	12.75	13.25	3.85	2.40	3.60	1.65	14.50	110.80	6.50	2.10	1.15	
11	2.20	15.87	11.00	4.50	2.35	3.00	1.60	28.80	97.80	6.20	2.05	1.15	
12	3.20	12.75	10.00	4.70	2.25	2.95	1.65	61.25	94.40	5.80	1.95	1.10	
13	7.20	11.62	11.12	4.60	2.15	2.95	1.75	74.90	86.60	5.60	1.90	1.05	
14	6.20	11.37	11.62	4.30	2.05	3.40	2.65	68.00	82.70	5.30	1.80	1.00	
15	6.90	12.87	11.25	4.20	2.05	4.70	2.65	62.50	62.75	4.80	1.80	1.00	
16	7.80	11.62	10.70	4.00	2.00	5.00	2.60	55.00	56.00	4.50	1.80	1.00	
17	8.00	11.12	9.10	3.85	1.95	5.30	2.45	48.20	51.00	4.30	1.75	1.00	
18	8.90	13.00	8.00	3.65	1.85	5.50	2.15	52.80	46.80	4.00	1.70	0.95	
19	10.40	20.00	7.40	3.45	1.75	4.40	2.70	54.40	42.20	3.80	1.65	0.95	
20	9.90	16.12	6.80	3.30	1.70	4.40	3.20	52.20	37.72	3.65	1.65	0.90	
21	9.90	13.37	5.90	3.20	1.65	4.20	3.95	56.75	33.35	3.55	1.60	0.90	
22	11.25	12.12	5.40	3.10	1.55	4.10	3.55	94.10	29.50	3.40	1.55	0.85	
23	8.50	12.25	5.20	3.00	1.50	5.60	3.80	110.80	25.10	3.30	1.55	0.80	
24	8.90	12.12	4.80	2.95	1.45	5.70	3.50	104.40	22.40	3.10	1.50	0.80	
25	8.90	12.12	5.80	2.95	1.40	4.90	3.35	100.60	20.30	3.00	1.50	0.75	
26	8.50	13.00	11.62	3.00	1.35	4.40	3.40	96.40	18.12	3.00	1.50	0.75	
27	8.00	13.37	10.20	6.00	1.45	3.80	3.65	83.00	16.75	2.95	1.45	0.85	
28	7.70	12.37	10.20	7.40	1.45	3.45	3.75	66.50	15.37	2.95	1.45	0.85	
29	6.30	16.37	12.00	8.10	1.70	3.25	3.75	56.50	14.62	2.85		1.10	
30	5.10	22.70	11.50	8.30	2.00	2.75	6.10	51.00	13.25	2.80		1.60	
31		24.65		6.80	2.50		12.50		12.37	2.75		2.40	
TOTAL	173.30	375.43	427.36	155.50	70.20	107.80	96.15	1569.09	2215.65	171.24	53.65	34.40	5449.76 CMSDAY
MEAN	5.78	12.11	14.25	5.02	2.26	3.59	3.10	52.30	71.47	5.52	1.92	1.11	14.93 CMS
MAX	11.25	24.65	32.65	8.60	5.00	5.70	12.50	110.80	167.20	11.62	2.60	2.40	167.20 CMS
MIN	1.10	4.50	4.80	2.95	1.35	1.70	1.60	14.50	12.37	2.75	1.45	0.75	0.75 CMS
RUNOFF	14.973	32.437	36.924	13.435	6.065	9.314	8.307	135.569	191.432	14.795	4.635	2.972	470.859 MCM

MOMENTARY PEAK 170.80 CMS, AT 7.78 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD 9.56 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 109.35 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG SADAO AT BAN PHRAI, SONGKHLA (X.111)

LOCATION — LAT. 6°-39'-37" N., LONG. 100°-26'-09" E., AT BAN PHRAI, AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA	256 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M. (A.D.)
BENCH MARK	B.M.=H.D.
LOCATION	NEAR THE TOP 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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	OVERBANK FLOW STARTS AT ELEVATION +2.25 M.(A.D.), RECORDS ARE CHANNEL FLOW ONLY.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 28 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

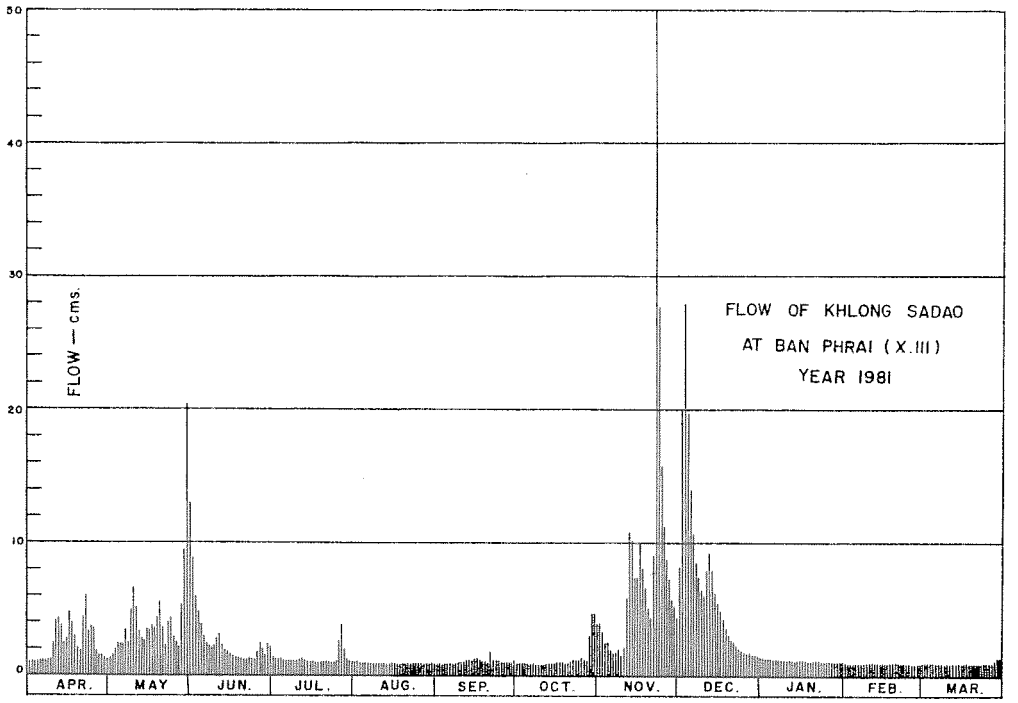
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	0.63	3.25	0.77	0.57	0.48	0.53	1.87	2.94	0.74	0.51	0.43	
2	0.45	0.66	2.80	0.69	0.57	0.46	0.51	1.76	4.07	0.72	0.51	0.42	
3	0.46	0.93	2.30	0.66	0.54	0.45	0.49	1.26	4.15	0.70	0.51	0.41	
4	0.48	1.15	1.86	0.64	0.53	0.45	0.48	1.29	4.01	0.67	0.50	0.43	
5	0.50	1.21	1.54	0.62	0.53	0.45	0.47	0.97	3.75	0.66	0.49	0.41	
6	0.50	1.14	1.32	0.61	0.52	0.45	0.46	0.81	3.54	0.65	0.49	0.41	
7	0.50	1.63	1.24	0.60	0.51	0.44	0.45	0.97	3.30	0.64	0.49	0.41	
8	0.57	1.21	1.14	0.59	0.51	0.53	0.44	1.01	3.09	0.63	0.48	0.40	
9	0.60	2.02	1.18	0.59	0.51	0.53	0.43	0.77	2.86	0.62	0.48	0.40	
10	0.95	2.66	1.42	0.58	0.50	0.52	0.43	0.82	2.55	0.61	0.48	0.40	
11	1.82	2.26	1.61	0.68	0.53	0.53	0.43	2.19	2.98	0.60	0.48	0.43	
12	1.89	1.71	1.23	0.68	0.51	0.61	0.42	3.59	3.39	0.59	0.47	0.43	
13	1.77	1.29	1.02	0.59	0.51	0.55	0.42	3.57	3.06	0.59	0.47	0.43	
14	1.15	1.25	0.90	0.59	0.50	0.56	0.42	2.95	2.68	0.59	0.46	0.43	
15	1.74	1.67	0.82	0.59	0.49	0.68	0.45	2.96	2.47	0.59	0.46	0.48	
16	2.12	1.65	0.79	0.58	0.48	0.72	0.45	3.49	2.28	0.58	0.46	0.47	
17	1.81	1.74	0.75	0.57	0.47	0.62	0.50	3.30	1.97	0.58	0.46	0.47	
18	1.39	1.67	0.72	0.56	0.47	0.57	0.50	2.79	1.75	0.56	0.45	0.46	
19	0.97	1.95	0.68	0.57	0.47	0.55	0.48	2.38	1.60	0.56	0.45	0.46	
20	0.96	2.42	0.66	0.58	0.46	0.52	0.47	1.96	1.46	0.55	0.45	0.47	
21	1.64	1.63	0.65	0.57	0.46	0.97	0.58	2.58	1.30	0.54	0.44	0.48	
22	2.49	1.17	0.64	0.57	0.46	0.61	0.59	4.45	1.19	0.54	0.44	0.48	
23	1.59	1.89	0.63	0.56	0.46	0.65	0.57	4.08	1.12	0.54	0.44	0.47	
24	1.76	1.91	0.62	0.55	0.48	0.59	0.61	3.80	1.02	0.54	0.44	0.41	
25	1.71	1.55	0.75	0.54	0.50	0.57	0.70	3.66	0.98	0.53	0.42	0.49	
26	0.99	1.31	1.28	1.36	0.47	0.54	0.71	3.37	0.95	0.53	0.42	0.43	
27	0.77	1.14	1.00	1.82	0.47	0.52	0.57	2.91	0.89	0.52	0.42	0.43	
28	0.74	2.15	0.79	0.79	0.52	0.51	1.43	2.46	0.83	0.52	0.42	0.55	
29	0.64	3.92	1.26	0.63	0.53	0.51	2.05	2.16	0.79	0.52		0.65	
30	0.62	3.98	1.17	0.59	0.51	0.56	2.11	1.98	0.78	0.51		0.63	
31		3.64		0.58	0.51		1.82		0.75	0.51		0.59	
MEAN	1.13	1.78	1.20	0.67	0.50	0.56	0.68	2.41	2.21	0.59	0.46	0.46	
MAX	2.49	3.98	3.25	1.82	0.57	0.97	2.11	4.45	4.15	0.74	0.51	0.65	4.45
MIN	0.44	0.63	0.62	0.54	0.46	0.44	0.42	0.77	0.75	0.51	0.42	0.40	0.40

ANNUAL MAX MOMENTARY GAGE HEIGHT — 4.52 M (A.D), AT 6.00 HOURS, ON NOV 22, 1981

ZERO GAGE AT BOTTOM ELEVATION — 0.00 M (A.D), RIVER BED — 0.52 M (A.D)

LEFT BANK ELEVATION — 2.44 M (A.D)

RIGHT BANK ELEVATION — 2.24 M (A.D), DRAINAGE AREA — 256 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.88	1.26	8.60	1.54	1.14	0.96	1.06	4.11	7.36	1.48	1.02	0.86	
2	0.90	1.32	6.90	1.38	1.14	0.92	1.02	3.78	24.00	1.44	1.02	0.84	
3	0.92	1.86	5.40	1.32	1.08	0.90	0.98	2.52	27.90	1.40	1.02	0.82	
4	0.96	2.30	4.08	1.28	1.06	0.90	0.96	2.58	21.60	1.34	1.00	0.86	
5	1.00	2.42	3.12	1.24	1.06	0.90	0.94	1.94	13.80	1.32	0.98	0.82	
6	1.00	2.28	2.64	1.22	1.04	0.90	0.92	1.62	10.40	1.30	0.98	0.82	
7	1.00	3.39	2.48	1.20	1.02	0.88	0.90	1.94	8.80	1.28	0.98	0.82	
8	1.14	2.42	2.28	1.18	1.02	1.06	0.88	2.02	7.96	1.26	0.96	0.80	
9	1.20	4.56	2.36	1.18	1.02	1.06	0.86	1.54	7.08	1.24	0.96	0.80	
10	1.90	6.48	2.84	1.16	1.00	1.04	0.86	1.64	6.15	1.22	0.96	0.80	
11	3.96	5.28	3.33	1.36	1.06	1.06	0.86	5.07	7.52	1.20	0.96	0.86	
12	4.17	3.63	2.46	1.36	1.02	1.22	0.84	10.90	9.25	1.18	0.94	0.86	
13	3.81	2.58	2.04	1.18	1.02	1.10	0.84	10.70	7.84	1.18	0.94	0.86	
14	2.30	2.50	1.80	1.18	1.00	1.12	0.84	7.40	6.54	1.18	0.92	0.86	
15	3.72	3.51	1.64	1.18	0.98	1.36	0.90	7.44	5.91	1.18	0.92	0.96	
16	4.86	3.45	1.58	1.16	0.96	1.44	0.90	9.93	5.34	1.16	0.92	0.94	
17	3.93	3.72	1.50	1.14	0.94	1.24	1.00	8.80	4.41	1.16	0.92	0.94	
18	2.78	3.51	1.44	1.12	0.94	1.14	1.00	6.87	3.75	1.12	0.90	0.92	
19	1.94	4.35	1.36	1.14	0.94	1.10	0.96	5.64	3.30	1.12	0.90	0.92	
20	1.92	5.76	1.32	1.16	0.92	1.04	0.94	4.38	2.92	1.10	0.90	0.94	
21	3.42	3.39	1.30	1.14	0.92	1.94	1.16	6.24	2.60	1.08	0.88	0.96	
22	5.97	2.34	1.28	1.14	0.92	1.22	1.18	50.50	2.38	1.08	0.88	0.96	
23	3.27	4.17	1.26	1.12	0.92	1.30	1.14	24.40	2.24	1.08	0.88	0.94	
24	3.78	4.23	1.24	1.10	0.96	1.18	1.22	15.00	2.04	1.08	0.88	0.82	
25	3.63	3.15	1.50	1.08	1.00	1.14	1.40	11.96	1.96	1.06	0.84	0.98	
26	1.98	2.62	2.56	2.72	0.94	1.08	1.42	9.15	1.90	1.06	0.84	0.86	
27	1.54	2.28	2.00	3.96	0.94	1.04	1.14	7.24	1.78	1.04	0.84	0.86	
28	1.48	4.95	1.58	1.58	1.04	1.02	2.86	5.88	1.66	1.04	0.84	1.10	
29	1.28	18.64	2.52	1.26	1.06	1.02	4.65	4.98	1.58	1.04		1.30	
30	1.24	20.56	2.34	1.18	1.02	1.12	4.83	4.44	1.56	1.02		1.26	
31		11.64		1.16	1.02		3.96		1.50	1.02		1.18	
TOTAL	71.88	144.55	76.75	42.12	31.10	33.40	43.42	240.61	213.03	36.46	25.98	28.52	987.82 CMSDAY
MEAN	2.40	4.66	2.56	1.36	1.00	1.11	1.40	8.02	6.87	1.18	0.93	0.92	2.71 CMS
MAX	5.97	20.56	8.60	3.96	1.14	1.94	4.83	50.50	27.90	1.48	1.02	1.30	50.50 CMS
MIN	0.88	1.26	1.24	1.08	0.92	0.88	0.84	1.54	1.50	1.02	0.84	0.80	0.80 CMS
RUNOFF	6.210	12.489	6.631	3.639	2.687	2.886	3.751	20.789	18.406	3.150	2.245	2.464	85.347 MCM

MOMENTARY PEAK 58.80 CMS, AT 4.52 M (A.D), AT 6.00 HOURS, ON NOV 22, 1981

RUNOFF YIELD 10.57 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 229.69 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

KHLONG LAM AT BAN PRIK (I), SONGKHLA (X.112)

LOCATION — LAT. 6°-42'-11" N., LONG. 100°-26'-10" E., AT BAN PRIK (I), AMPHOE SADAO, SONGKHLA.

DRAINAGE AREA — 493 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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 27 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

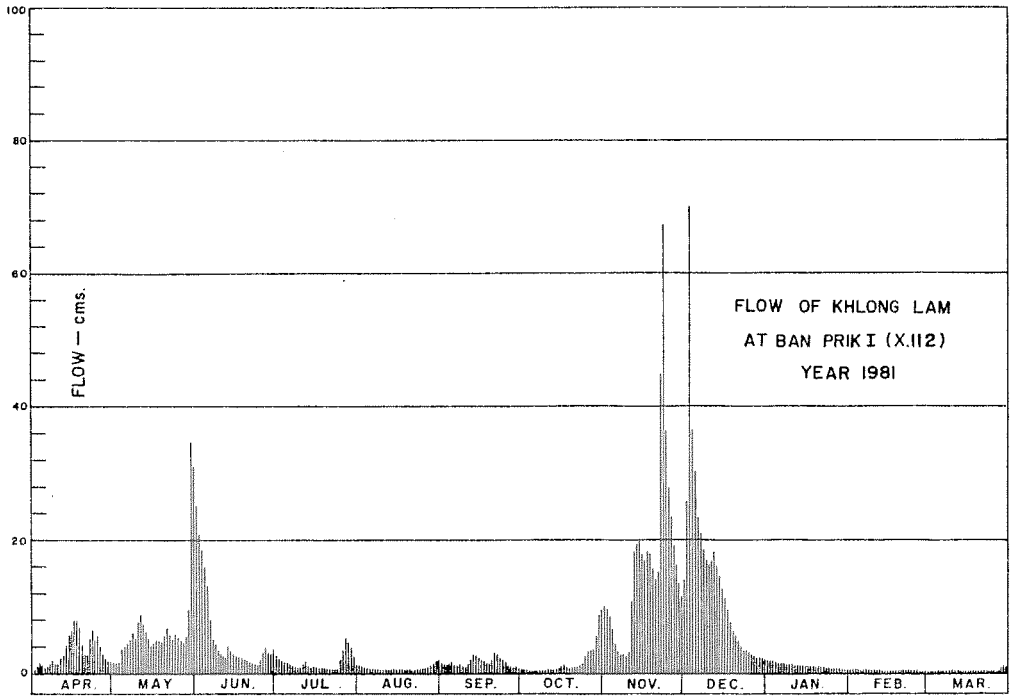
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.98	1.78	5.68	2.30	1.60	1.77	1.32	4.00	4.61	2.00	1.12	0.92	
2	1.34	1.72	5.34	2.06	1.51	1.66	1.36	4.01	5.84	1.95	1.11	0.91	
3	1.74	1.63	5.17	1.93	1.42	1.57	1.22	3.79	6.31	1.92	1.10	0.90	
4	1.43	2.59	4.97	1.78	1.37	1.65	1.16	3.43	6.12	1.87	1.08	0.90	
5	1.25	2.80	4.14	1.76	1.32	1.84	1.13	3.04	6.00	1.82	1.07	0.89	
6	1.53	2.88	3.65	1.62	1.28	1.52	1.07	2.64	5.78	1.76	1.06	0.88	
7	1.73	3.03	3.14	1.53	1.25	1.44	0.99	2.43	5.56	1.72	1.04	0.88	
8	1.83	3.24	2.88	1.49	1.23	1.78	0.95	2.44	5.36	1.68	1.03	0.87	
9	1.60	3.09	2.80	1.44	1.20	1.56	0.94	2.29	5.13	1.62	1.02	0.86	
10	1.63	3.55	2.52	1.38	1.27	1.35	0.98	2.11	4.91	1.58	1.02	0.85	
11	2.04	3.78	2.27	1.46	1.36	1.59	1.01	3.76	5.00	1.55	1.01	0.84	
12	2.12	3.48	2.19	1.86	1.27	2.07	1.20	5.16	5.17	1.51	1.01	0.83	
13	2.79	3.24	2.86	1.54	1.23	2.32	1.28	5.30	5.17	1.48	1.00	0.83	
14	3.19	3.03	2.62	1.44	1.18	2.29	1.11	5.39	5.03	1.44	0.99	0.83	
15	3.30	2.73	2.43	1.38	1.10	2.16	1.14	5.21	4.76	1.42	0.99	0.82	
16	3.66	2.91	2.23	1.36	1.04	2.00	1.15	4.99	4.52	1.38	1.00	0.82	
17	3.61	2.98	2.12	1.35	1.02	1.82	1.49	5.17	4.29	1.37	0.99	0.82	
18	3.45	3.00	1.97	1.38	1.01	1.68	1.59	5.16	4.00	1.35	0.98	0.82	
19	3.01	2.94	1.93	1.35	0.99	1.59	1.35	5.00	3.70	1.31	0.98	0.82	
20	2.39	3.14	1.81	1.35	0.98	1.75	1.25	4.64	3.48	1.30	0.98	0.81	
21	2.25	3.46	1.75	1.32	0.97	2.47	1.40	4.67	3.24	1.28	0.97	0.81	
22	3.03	3.26	1.73	1.30	0.96	2.44	1.53	5.98	3.04	1.26	0.97	0.84	
23	3.32	3.08	1.67	1.28	0.95	2.21	1.42	6.30	2.83	1.25	0.96	0.83	
24	3.05	3.23	1.60	1.27	1.02	1.98	1.68	6.11	2.62	1.22	0.95	0.83	
25	3.23	3.15	1.73	1.75	1.18	1.87	2.08	5.85	2.53	1.20	0.94	0.84	
26	2.94	3.02	2.57	2.35	1.30	1.67	2.61	5.62	2.44	1.18	0.93	0.87	
27	2.41	2.91	2.73	3.09	1.31	1.46	2.65	5.33	2.34	1.17	0.93	0.82	
28	2.01	3.10	2.51	3.01	1.61	1.35	2.64	4.98	2.26	1.16	0.92	0.81	
29	1.88	4.07	2.35	2.69	1.79	1.31	2.92	4.61	2.15	1.15		1.43	
30	1.84	6.06	2.62	2.04	1.84	1.26	3.63	4.33	2.09	1.14		1.44	
31		5.97		1.70	1.94		3.91		2.03	1.14		1.24	
MEAN	2.35	3.19	2.80	1.73	1.27	1.78	1.62	4.46	4.14	1.46	1.01	0.90	
MAX	3.66	6.06	5.68	3.09	1.94	2.47	3.91	6.30	6.31	2.00	1.12	1.44	6.31
MIN	0.98	1.63	1.60	1.27	0.95	1.26	0.94	2.11	2.03	1.14	0.92	0.81	0.81

ANNUAL MAX MOMENTARY GAGE HEIGHT — 6.37 M (A.D), AT 6.00 HOURS, ON NOV 23, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.38	1.76	23.50	2.80	1.40	1.74	0.84	9.90	13.67	2.20	0.52	0.32	
2	0.88	1.64	19.51	2.32	1.22	1.52	0.92	9.95	27.40	2.10	0.51	0.31	
3	1.68	1.46	18.14	2.06	1.04	1.34	0.64	8.84	70.10	2.04	0.50	0.30	
4	1.06	3.47	16.52	1.76	0.94	1.50	0.56	7.02	37.80	1.94	0.48	0.30	
5	0.70	4.15	10.67	1.72	0.84	1.88	0.53	5.08	31.90	1.84	0.47	0.29	
6	1.26	4.43	8.13	1.44	0.76	1.24	0.47	3.62	25.90	1.72	0.46	0.28	
7	1.66	5.03	5.55	1.26	0.70	1.08	0.39	3.07	21.50	1.64	0.44	0.28	
8	1.86	6.06	4.43	1.18	0.66	1.76	0.35	3.10	19.68	1.56	0.43	0.27	
9	1.40	5.30	4.15	1.08	0.60	1.32	0.34	2.78	17.82	1.44	0.42	0.26	
10	1.46	7.62	3.30	0.96	0.74	0.90	0.38	2.42	16.04	1.36	0.42	0.25	
11	2.28	8.79	2.74	1.12	0.92	1.38	0.41	8.69	16.77	1.30	0.41	0.24	
12	2.44	7.27	2.58	1.92	0.74	2.34	0.60	18.06	18.14	1.22	0.41	0.23	
13	4.11	6.06	4.36	1.28	0.66	2.84	0.76	19.19	18.14	1.16	0.40	0.23	
14	5.80	5.03	3.56	1.08	0.58	2.78	0.51	19.92	17.01	1.08	0.39	0.23	
15	6.36	3.90	3.07	0.96	0.50	2.52	0.54	18.46	14.81	1.04	0.39	0.22	
16	8.18	4.54	2.66	0.92	0.44	2.20	0.55	16.69	13.04	0.96	0.40	0.22	
17	7.93	4.82	2.44	0.90	0.42	1.84	1.18	18.14	11.54	0.94	0.39	0.22	
18	7.12	4.90	2.14	0.96	0.41	1.56	1.38	18.06	9.90	0.90	0.38	0.22	
19	4.94	4.66	2.06	0.90	0.39	1.38	0.90	16.77	8.38	0.82	0.38	0.22	
20	2.98	5.55	1.82	0.90	0.38	1.70	0.70	13.88	7.27	0.80	0.38	0.21	
21	2.70	7.17	1.70	0.84	0.37	3.17	1.00	14.09	6.06	0.76	0.37	0.21	
22	5.03	6.16	1.66	0.80	0.36	3.10	1.26	31.30	5.08	0.72	0.37	0.24	
23	6.46	5.26	1.54	0.76	0.35	2.62	1.04	67.00	4.25	0.70	0.36	0.23	
24	5.12	6.01	1.40	0.74	0.42	2.16	1.56	37.15	3.56	0.64	0.35	0.23	
25	6.01	5.60	1.66	1.70	0.58	1.94	2.36	27.65	3.32	0.60	0.34	0.24	
26	4.66	4.99	3.42	2.90	0.80	1.54	3.53	22.30	3.10	0.58	0.33	0.27	
27	3.02	4.54	3.90	5.30	0.82	1.12	3.65	19.43	2.88	0.57	0.33	0.22	
28	2.22	5.35	3.27	4.94	1.42	0.90	3.62	16.60	2.72	0.56	0.32	0.21	
29	1.96	10.28	2.90	3.77	1.78	0.82	4.58	13.67	2.50	0.55		1.06	
30	1.88	34.66	3.56	2.28	1.88	0.72	8.03	11.80	2.38	0.54		1.08	
31		31.00		1.60	2.08		9.44		2.26	0.54		0.68	
TOTAL	103.54	217.46	166.34	53.15	25.20	52.91	53.02	484.63	454.92	34.82	11.35	9.77	1667.11 CMSDAY
MEAN	3.45	7.01	5.54	1.71	0.81	1.76	1.71	16.15	14.67	1.12	0.41	0.32	4.57 CMS
MAX	8.18	34.66	23.50	5.30	2.08	3.17	9.44	67.00	70.10	2.20	0.52	1.08	70.10 CMS
MIN	0.38	1.46	1.40	0.74	0.35	0.72	0.34	2.42	2.26	0.54	0.32	0.21	0.21 CMS
RUNOFF	8.946	18.789	14.372	4.592	2.177	4.571	4.581	41.872	39.305	3.008	0.981	0.844	144.038 MCM

MOMENTARY PEAK 88.70 CMS, AT 6.37 M (A.D), AT 6.00 HOURS, ON NOV 23, 1981

RUNOFF YIELD 9.26 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 179.92 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

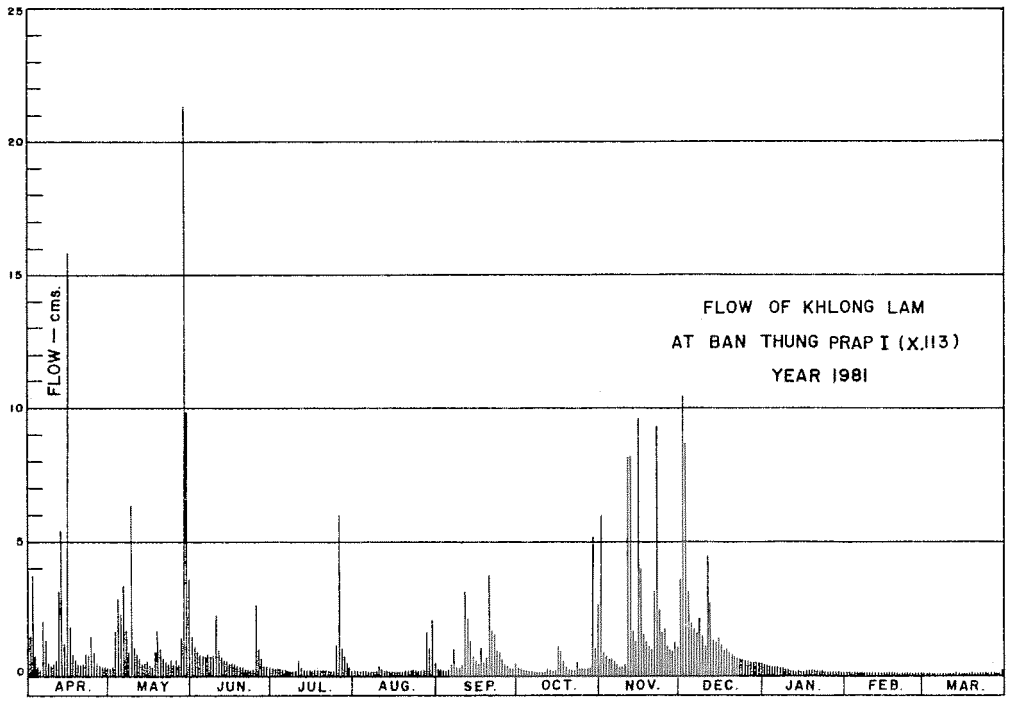
KHLONG LAM AT BAN THUNG PRAP (I), SONGKHLA (X.113)

LOCATION	LAT. 6°-37'-59" N., LONG. 100°-23'-46" E., AT BAN THUNG PRAP (I), AMPHOE SADAO, SONGKHLA.
DRAINAGE AREA	129 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 141 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.13	1.27	1.87	1.29	1.24	1.27	1.32	3.17	3.21	1.40	1.16	1.11	
2	2.67	1.25	1.73	1.27	1.23	1.23	1.27	1.75	3.77	1.39	1.16	1.11	
3	1.43	2.07	1.64	1.25	1.21	1.21	1.24	1.56	3.60	1.37	1.16	1.11	
4	1.34	2.37	1.57	1.24	1.20	1.20	1.23	1.50	2.44	1.36	1.16	1.11	
5	1.25	2.17	1.53	1.23	1.19	1.18	1.21	1.45	2.11	1.34	1.18	1.10	
6	2.12	2.53	1.50	1.23	1.19	1.29	1.20	1.41	2.04	1.33	1.18	1.10	
7	1.80	2.00	1.55	1.22	1.18	1.66	1.19	1.38	1.97	1.32	1.18	1.10	
8	1.43	1.58	1.52	1.21	1.18	1.30	1.19	1.34	2.18	1.31	1.18	1.10	
9	1.34	3.22	1.58	1.20	1.17	1.31	1.18	1.32	1.91	1.30	1.18	1.10	
10	1.39	1.67	2.17	1.23	1.36	1.23	1.18	1.42	1.79	1.29	1.17	1.09	
11	1.42	1.57	1.66	1.45	1.37	2.50	1.17	3.53	2.86	1.28	1.17	1.09	
12	3.04	1.50	1.53	1.28	1.25	2.20	1.36	3.53	2.21	1.28	1.17	1.09	
13	1.92	1.43	1.47	1.25	1.21	2.01	1.20	1.91	1.87	1.27	1.16	1.09	
14	1.75	1.39	1.44	1.23	1.20	1.55	1.22	1.80	1.80	1.26	1.17	1.09	
15	4.22	1.42	1.43	1.24	1.18	1.50	1.27	3.69	1.93	1.26	1.17	1.09	
16	2.05	1.38	1.41	1.22	1.18	1.41	1.70	2.82	1.76	1.25	1.17	1.08	
17	1.55	1.36	1.38	1.21	1.17	1.73	1.60	1.93	1.68	1.24	1.16	1.08	
18	1.45	1.33	1.35	1.20	1.16	1.43	1.36	1.87	1.65	1.23	1.16	1.08	
19	1.39	2.00	1.32	1.20	1.15	1.45	1.28	1.75	1.64	1.22	1.13	1.08	
20	1.35	1.69	1.30	1.19	1.15	2.68	1.24	1.67	1.60	1.21	1.14	1.08	
21	1.37	1.48	1.30	1.20	1.15	1.94	1.23	2.69	1.57	1.21	1.12	1.07	
22	1.55	1.40	1.29	1.21	1.15	1.97	1.21	3.66	1.54	1.20	1.13	1.07	
23	1.53	1.39	1.28	1.20	1.23	1.61	1.42	2.34	1.53	1.20	1.14	1.07	
24	1.89	1.48	1.26	1.19	1.27	1.61	1.26	2.02	1.51	1.19	1.13	1.07	
25	1.57	1.38	2.31	1.20	1.18	1.49	1.28	2.05	1.48	1.19	1.11	1.07	
26	1.41	1.40	1.79	3.17	1.16	1.42	1.25	1.73	1.46	1.19	1.11	1.07	
27	1.35	1.38	1.50	1.62	1.16	1.35	1.25	1.67	1.45	1.18	1.11	1.07	
28	1.32	1.92	1.39	1.63	1.92	1.31	1.73	1.62	1.44	1.17	1.11	1.09	
29	1.30	4.58	1.35	1.39	1.69	1.40	3.00	1.80	1.42	1.17		1.08	
30	1.28	4.07	1.32	1.31	2.16	1.38	1.68	1.72	1.41	1.17		1.08	
31		2.38		1.27	1.36		2.21		1.40	1.16		1.27	
MEAN	1.69	1.87	1.52	1.33	1.28	1.56	1.39	2.07	1.94	1.26	1.15	1.09	
MAX	4.22	4.58	2.31	3.17	2.16	2.68	3.00	3.69	3.77	1.40	1.18	1.27	4.58
MIN	1.13	1.25	1.26	1.19	1.15	1.18	1.17	1.32	1.40	1.16	1.11	1.07	1.07

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.84 M (A.D), AT 6.00 HOURS, ON MAY 29, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.13	0.27	1.44	0.29	0.24	0.27	0.34	6.05	6.26	0.50	0.16	0.11	
2	3.78	0.25	1.16	0.27	0.23	0.23	0.27	1.20	10.40	0.48	0.16	0.11	
3	0.56	1.91	0.98	0.25	0.21	0.21	0.24	0.82	8.80	0.44	0.16	0.11	
4	0.38	2.81	0.84	0.24	0.20	0.20	0.23	0.70	3.02	0.42	0.16	0.11	
5	0.25	2.21	0.76	0.23	0.19	0.18	0.21	0.60	2.03	0.38	0.18	0.10	
6	2.06	3.29	0.70	0.23	0.19	0.29	0.20	0.52	1.82	0.36	0.18	0.10	
7	1.30	1.70	0.80	0.22	0.18	1.02	0.19	0.46	1.64	0.34	0.18	0.10	
8	0.56	0.86	0.74	0.21	0.18	0.30	0.19	0.38	2.24	0.32	0.18	0.10	
9	0.38	6.32	0.86	0.20	0.17	0.32	0.18	0.34	1.52	0.30	0.18	0.10	
10	0.48	1.04	2.21	0.23	0.42	0.23	0.18	0.54	1.28	0.29	0.17	0.09	
11	0.54	0.84	1.02	0.60	0.44	3.20	0.17	8.24	4.54	0.28	0.17	0.09	
12	5.40	0.70	0.76	0.28	0.25	2.30	0.42	8.24	2.33	0.28	0.17	0.09	
13	1.54	0.56	0.64	0.25	0.21	1.73	0.20	1.52	1.44	0.27	0.16	0.09	
14	1.20	0.48	0.58	0.23	0.20	0.80	0.22	1.30	1.30	0.26	0.17	0.09	
15	15.78	0.54	0.56	0.24	0.18	0.70	0.27	9.61	1.56	0.26	0.17	0.09	
16	1.85	0.46	0.52	0.22	0.18	0.52	1.10	4.38	1.22	0.25	0.17	0.08	
17	0.80	0.42	0.46	0.21	0.17	1.16	0.90	1.56	1.06	0.24	0.16	0.08	
18	0.60	0.36	0.40	0.20	0.16	0.56	0.42	1.44	1.00	0.23	0.16	0.08	
19	0.48	1.70	0.34	0.20	0.15	0.60	0.28	1.20	0.98	0.22	0.13	0.08	
20	0.40	1.08	0.30	0.19	0.15	3.82	0.24	1.04	0.90	0.21	0.14	0.08	
21	0.44	0.66	0.30	0.20	0.15	1.58	0.23	3.86	0.84	0.21	0.12	0.07	
22	0.80	0.50	0.29	0.21	0.15	1.64	0.21	9.34	0.78	0.20	0.13	0.07	
23	0.76	0.48	0.28	0.20	0.23	0.92	0.54	2.72	0.76	0.20	0.14	0.07	
24	1.48	0.66	0.26	0.19	0.27	0.92	0.26	1.76	0.72	0.19	0.13	0.07	
25	0.84	0.46	2.63	0.20	0.18	0.68	0.28	1.85	0.66	0.19	0.11	0.07	
26	0.52	0.50	1.28	6.05	0.16	0.54	0.25	1.16	0.62	0.19	0.11	0.07	
27	0.40	0.46	0.70	0.94	0.16	0.40	0.25	1.04	0.60	0.18	0.11	0.07	
28	0.34	1.54	0.48	0.96	1.54	0.32	1.16	0.94	0.58	0.17	0.11	0.09	
29	0.30	21.36	0.40	0.48	1.08	0.50	6.20	1.30	0.54	0.17		0.08	
30	0.28	13.81	0.34	0.32	2.18	0.46	1.06	1.14	0.52	0.17		0.08	
31		2.84		0.27	0.42		2.33		0.50	0.16		0.27	
TOTAL	44.63	71.07	23.03	15.01	10.82	26.60	18.22	75.25	62.46	8.36	4.27	2.89	362.61 CMSDAY
MEAN	1.49	2.29	0.77	0.48	0.35	0.89	0.59	2.51	2.01	0.27	0.15	0.09	0.99 CMS
MAX	15.78	21.36	2.63	6.05	2.18	3.82	5.20	9.61	10.40	0.50	0.18	0.27	21.36 CMS
MIN	0.13	0.25	0.26	0.19	0.15	0.18	0.17	0.34	0.50	0.16	0.11	0.07	0.07 CMS
RUNOFF	3.856	6.140	1.990	1.297	0.935	2.298	1.574	6.502	5.397	0.722	0.369	0.250	31.329 MCM

MOMENTARY PEAK 26.34 CMS, AT 4.84 M (A.D), AT 6.00 HOURS, ON MAY 29, 1981

RUNOFF YIELD 7.70 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 204.19 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

PATTANI RIVER AT YALA, YALA (X.40)

LOCATION — LAT. 6°-34'-03" N., LONG. 101°-17'-40" E., ON RIGHT BANK ABOUT 500 METERS DOWNSTREAM FROM STATE RAILWAY BRIDGE CROSSING PATTANI RIVER AT BAN SATENG NOK, AMPHOE MUANG, YALA.

DRAINAGE AREA — 3,295 SQ.KM.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +9.60 M. (M.S.L.)

BENCH MARK — B.M.-H.D.

LOCATION — ABOUT 15 METERS UPSTREAM FROM THE TOP 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

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, 1981 TO MARCH 31, 1982

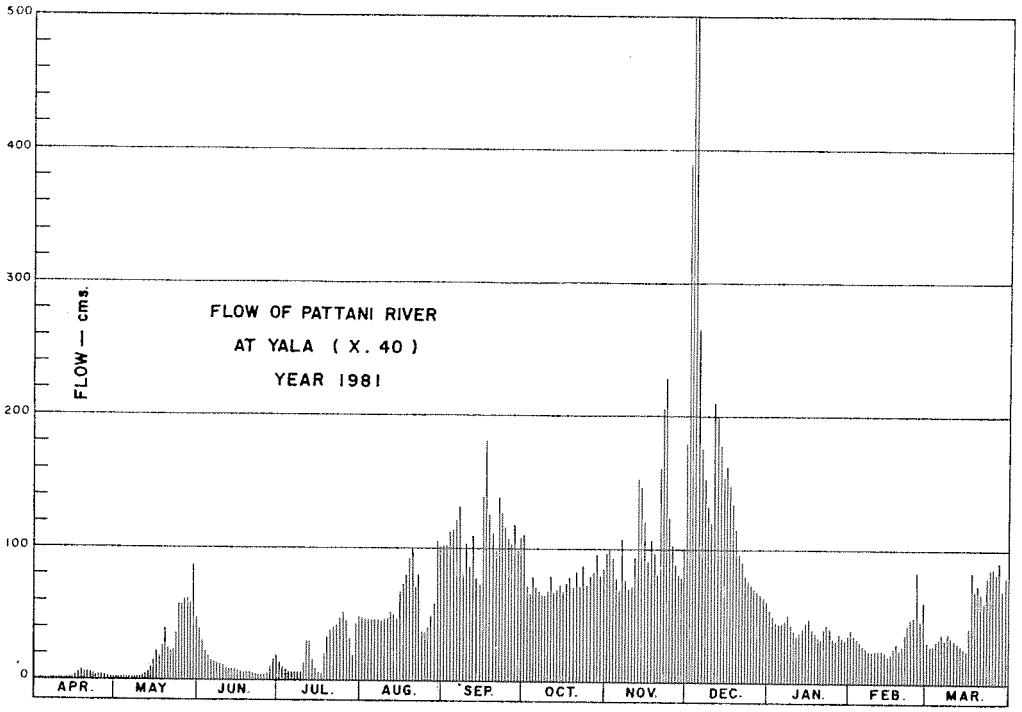
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	9.87	9.92	10.95	10.43	11.09	11.84	11.92	11.76	12.15	11.22	10.96	10.77	
2	9.88	9.91	10.78	10.29	11.07	11.83	11.51	11.82	14.03	11.09	10.87	10.73	
3	9.88	9.91	10.66	10.25	11.06	11.94	11.40	11.78	15.09	11.09	10.83	10.69	
4	9.89	9.91	10.54	10.20	10.94	11.97	11.55	11.51	15.07	11.01	10.75	10.77	
5	9.89	9.90	10.47	10.17	11.04	11.97	11.44	11.54	14.26	11.03	10.70	10.79	
6	9.90	9.91	10.40	10.14	11.05	12.12	11.46	11.44	13.38	11.03	10.66	10.85	
7	9.90	9.92	10.36	10.15	11.04	12.16	11.41	11.90	12.65	11.05	10.64	10.83	
8	9.89	9.93	10.35	10.16	11.05	11.73	11.39	11.59	12.44	11.14	10.59	10.78	
9	9.89	9.92	10.33	10.17	11.04	11.55	11.36	11.45	12.16	11.02	10.57	10.87	
10	9.89	9.93	10.30	10.19	11.07	11.85	11.41	11.47	12.04	11.00	10.55	10.79	
11	9.90	9.95	10.27	10.52	11.06	11.65	11.55	11.49	12.82	10.92	10.58	10.75	
12	9.91	10.00	10.26	10.75	11.16	11.80	11.40	11.81	13.00	10.88	10.59	10.74	
13	9.90	10.07	10.25	10.75	11.14	11.94	11.41	12.40	12.88	10.90	10.60	10.72	
14	9.90	10.21	10.24	10.37	11.07	11.56	11.45	12.34	12.60	10.98	10.58	10.69	
15	9.90	10.39	10.21	10.26	11.07	11.48	11.50	12.12	12.42	11.06	10.52	10.61	
16	10.05	10.60	10.18	10.17	11.41	12.22	11.40	11.90	12.49	11.08	10.57	10.82	
17	10.11	10.53	10.15	10.13	11.50	12.68	11.49	11.72	12.43	11.00	10.63	11.62	
18	10.12	10.49	10.13	10.52	11.58	12.12	11.55	11.91	12.31	10.87	10.72	11.44	
19	10.13	10.92	10.11	10.78	11.69	12.05	11.41	11.80	12.14	10.88	10.64	11.50	
20	10.10	10.68	10.10	10.89	11.79	11.84	11.42	11.59	11.96	10.85	10.60	11.43	
21	10.11	10.58	10.09	10.92	11.46	12.23	11.59	11.92	11.77	10.78	10.76	11.41	
22	10.11	10.61	10.09	10.97	11.53	12.08	11.47	12.94	11.74	10.94	10.97	11.31	
23	10.08	10.63	10.08	10.98	11.59	12.13	11.66	13.15	11.61	10.98	11.07	11.58	
24	10.06	11.24	10.08	11.09	10.86	12.01	11.54	12.20	11.56	10.99	11.11	11.66	
25	10.04	11.22	10.07	11.15	10.88	11.94	11.47	12.13	11.51	10.81	11.11	11.65	
26	10.02	11.28	10.07	11.12	10.95	11.87	11.57	11.84	11.48	10.79	11.63	11.61	
27	10.00	11.33	10.24	10.98	11.08	12.03	11.59	11.68	11.43	10.76	11.09	11.70	
28	9.98	11.30	10.24	10.74	11.17	12.01	11.76	11.59	11.42	10.89	11.30	11.62	
29	9.96	11.27	10.50	10.52	11.30	11.80	11.64	11.55	11.38	10.82		11.43	
30	9.94	11.66	10.54	10.97	11.87	11.92	11.57	11.64	11.33	10.79		11.57	
31		11.16		11.09	11.83		11.62		11.45	10.81		11.63	
MEAN	9.97	10.49	10.30	10.57	11.24	11.94	11.51	11.87	12.42	10.95	10.79	11.14	
MAX	10.13	11.66	10.95	11.15	11.87	12.68	11.92	13.15	15.09	11.22	11.63	11.70	15.09
MIN	9.87	9.90	10.07	10.13	10.86	11.48	11.36	11.44	11.33	10.76	10.52	10.61	9.87

ANNUAL MAX MOMENTARY GAGE HEIGHT 15.20 M (MSL), AT 18.00 HOURS, ON DEC 3, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.40	2.40	40.50	16.20	48.40	102.60	109.80	95.40	130.50	56.20	41.00	31.50	
2	1.60	2.20	32.00	10.70	47.20	101.70	74.80	100.80	339.50	48.40	36.50	29.50	
3	1.60	2.20	26.00	9.50	46.60	111.60	67.00	97.20	541.50	48.40	34.50	27.50	
4	1.80	2.20	20.60	8.00	40.00	114.30	78.00	74.80	536.50	43.60	30.50	31.50	
5	1.80	2.00	17.80	7.40	45.40	114.30	69.80	77.20	376.20	44.80	28.00	32.50	
6	2.00	2.20	15.00	6.80	46.00	127.80	71.20	69.80	255.60	44.80	26.00	35.50	
7	2.00	2.40	13.40	7.00	45.40	131.40	67.70	108.00	177.00	46.00	25.00	34.50	
8	1.80	2.60	13.00	7.20	46.00	92.70	66.40	81.20	156.60	51.40	22.60	32.00	
9	1.80	2.40	12.20	7.40	45.40	78.00	64.60	70.50	131.40	44.20	21.80	36.50	
10	1.80	2.60	11.00	7.80	47.20	103.50	67.70	71.90	120.60	43.00	21.00	32.50	
11	2.00	3.00	10.10	19.80	46.60	86.00	78.00	73.30	194.00	39.00	22.20	30.50	
12	2.20	4.00	9.80	30.50	52.60	99.00	67.00	99.90	212.00	37.00	22.60	30.00	
13	2.00	5.40	9.50	30.50	51.40	111.60	67.70	153.00	200.00	38.00	23.00	29.00	
14	2.00	8.30	9.20	13.80	47.20	78.80	70.50	147.60	172.00	42.00	22.20	27.50	
15	2.00	14.60	8.30	9.80	47.20	72.60	74.00	127.80	154.80	46.60	19.80	23.50	
16	5.00	23.00	7.60	7.40	67.70	136.80	67.00	108.00	161.10	47.80	21.80	34.00	
17	6.20	20.20	7.00	6.60	74.00	180.00	73.30	91.80	155.70	43.00	24.50	83.60	
18	6.40	18.60	6.60	19.80	80.40	127.80	78.00	108.90	144.90	36.50	29.00	69.80	
19	6.60	39.00	6.20	32.00	89.20	121.50	67.70	99.00	129.60	37.00	25.00	74.00	
20	6.00	27.00	6.00	37.50	98.10	102.60	68.40	81.20	113.40	35.50	23.00	69.10	
21	6.20	22.20	5.80	39.00	71.20	137.70	81.20	109.80	96.30	32.00	31.00	67.70	
22	6.20	23.50	5.80	41.50	76.40	124.20	71.90	206.00	93.60	40.00	41.50	61.60	
23	5.60	24.50	5.60	42.00	81.20	128.70	86.80	228.50	82.80	42.00	47.20	80.40	
24	5.20	57.40	5.60	48.40	36.00	117.90	77.20	135.00	78.80	42.50	49.60	86.80	
25	4.80	56.20	5.40	52.00	37.00	111.60	71.90	128.70	74.80	33.50	49.60	86.00	
26	4.40	59.80	5.40	50.20	40.50	105.30	79.60	102.60	72.60	32.50	84.40	82.80	
27	4.00	62.80	9.20	42.00	47.80	119.70	81.20	88.40	69.10	31.00	48.40	90.00	
28	3.60	61.00	9.20	30.00	53.20	117.90	95.40	81.20	68.40	37.50	61.00	83.60	
29	3.20	59.20	19.00	19.80	61.00	99.00	85.20	78.00	65.80	34.00		69.10	
30	2.80	86.80	20.60	41.50	105.30	109.80	79.60	85.20	62.80	32.50		79.60	
31		52.60		48.40	101.70		83.60		70.50	33.50		84.40	
TOTAL	104.00	752.30	373.40	750.50	1823.30	3366.40	2342.20	3180.70	5238.39	1264.20	932.70	1666.50	21794.58 CMSDAY
MEAN	3.47	24.27	12.45	24.21	58.82	112.21	75.55	106.02	168.98	40.78	33.31	53.76	59.71 CMS
MAX	6.60	86.80	40.50	52.00	105.30	180.00	109.80	228.50	541.50	56.20	84.40	90.00	541.50 CMS
MIN	1.40	2.00	5.40	6.60	36.00	72.60	64.60	69.80	62.80	31.00	19.80	23.50	1.40 CMS
RUNOFF	8.986	64.999	32.262	64.843	157.533	290.857	202.366	274.812	452.597	109.227	80.585	143.985	1883.051 MCM

MOMENTARY PEAK 572.00 CMS, AT 15.20 M (MSL), AT 18.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD 18.12 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 173.60 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA EAST COAST

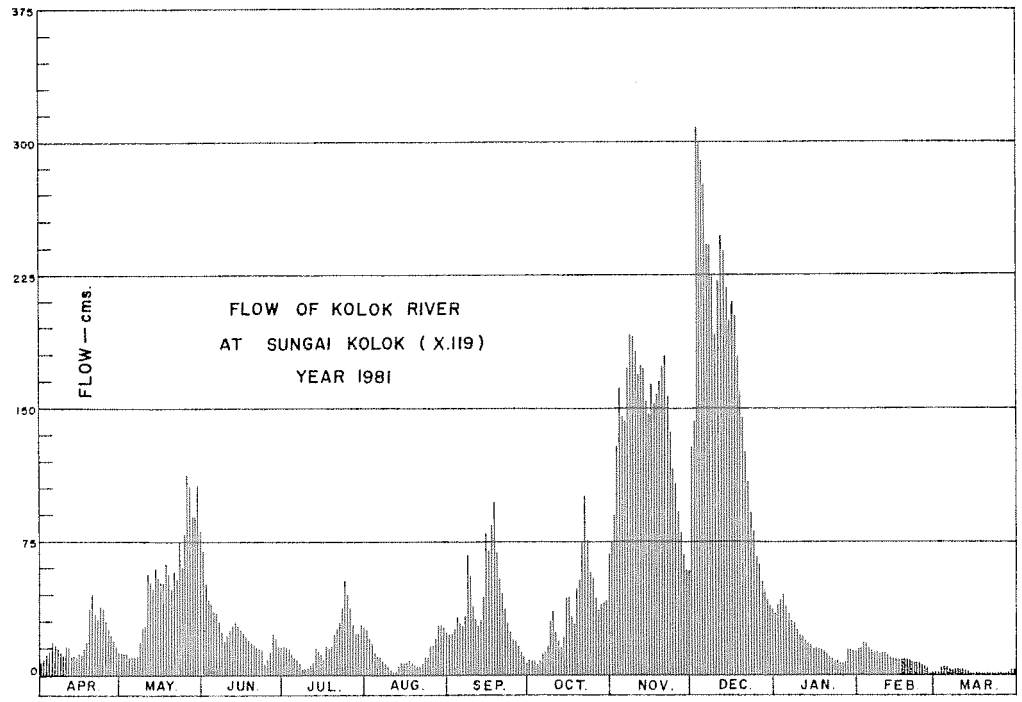
KOLOK RIVER AT SUNGAI KOLOK, NARATHIWAT (X.119)

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	FLOOD PLAIN.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+0.00 M.(A.D.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK ABOUT 15 METERS FROM THE TOP STAFF GAGE.
ELEVATION	+5.533 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	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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
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 58 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.08	1.26	2.48	1.42	1.66	1.59	1.20	2.69	3.43	1.88	1.39	0.75	
2	1.21	1.26	2.23	1.35	1.53	1.63	1.16	2.90	4.84	2.01	1.42	0.88	
3	1.26	1.27	2.02	1.35	1.41	1.66	1.13	3.67	5.58	2.05	1.49	1.06	
4	1.32	1.24	1.98	1.28	1.31	1.82	1.12	3.89	5.50	2.11	1.48	1.06	
5	1.45	1.25	1.91	1.20	1.23	1.74	1.20	3.66	5.37	1.98	1.43	1.02	
6	1.40	1.22	1.85	1.16	1.17	1.72	1.32	3.60	5.16	1.86	1.37	0.99	
7	1.32	1.22	1.72	1.08	1.12	1.84	1.33	4.03	4.83	1.79	1.34	0.97	
8	1.26	1.51	1.62	0.98	1.07	2.50	1.48	4.23	4.83	1.72	1.32	0.97	
9	1.21	1.69	1.51	1.03	1.02	2.28	1.84	4.22	4.46	1.66	1.30	0.97	
10	1.38	1.73	1.60	1.02	0.97	1.93	1.88	4.09	4.23	1.60	1.33	0.98	
11	1.38	2.35	1.65	1.07	0.96	1.79	1.65	3.95	4.61	1.56	1.31	0.98	
12	1.28	2.20	1.72	1.12	0.95	1.73	1.49	4.02	4.88	1.51	1.27	0.97	
13	1.23	2.15	1.75	1.35	1.09	1.77	1.41	3.98	4.78	1.45	1.25	0.96	
14	1.21	2.39	1.69	1.29	1.12	2.14	1.62	3.70	4.55	1.45	1.21	0.95	
15	1.26	2.26	1.64	1.23	1.11	2.74	1.64	3.65	4.33	1.42	1.20	0.93	
16	1.27	2.22	1.58	1.18	1.09	2.54	2.08	3.91	4.45	1.42	1.20	0.92	
17	1.36	2.23	1.54	1.40	1.08	2.83	1.81	3.75	4.38	1.40	1.18	0.91	
18	1.55	2.42	1.49	1.40	1.09	2.98	1.76	3.85	4.14	1.37	1.17	0.90	
19	2.09	2.29	1.46	1.44	1.06	2.54	2.23	3.92	3.78	1.33	1.16	0.90	
20	2.07	2.13	1.42	1.61	1.04	2.29	2.30	4.04	3.67	1.29	1.15	0.89	
21	1.83	2.35	1.39	1.71	1.04	2.12	2.74	4.08	3.38	1.25	1.14	0.89	
22	1.77	2.26	1.36	1.79	1.12	1.90	3.05	3.87	3.13	1.21	1.12	0.88	
23	1.95	2.62	1.35	1.96	1.22	1.73	2.66	3.51	2.92	1.18	1.11	0.87	
24	1.93	2.41	1.05	2.25	1.25	1.62	2.40	3.24	2.71	1.15	1.10	0.86	
25	1.75	2.80	1.16	2.07	1.44	1.49	2.21	3.11	2.53	1.13	1.09	0.85	
26	1.62	3.19	1.34	1.90	1.43	1.49	2.08	2.96	2.42	1.11	1.05	0.85	
27	1.52	3.09	1.61	1.72	1.52	1.43	1.91	2.69	2.26	1.17	1.00	0.84	
28	1.44	2.86	1.52	1.62	1.73	1.31	1.99	2.50	2.12	1.40	0.84	0.92	
29	1.36	2.87	1.42	1.58	1.72	1.25	2.01	2.36	2.01	1.38		1.03	
30	1.31	3.11	1.51	1.72	1.68	1.15	2.08	2.36	1.94	1.36		1.01	
31		2.73		1.74	1.66		2.59		1.92	1.36		1.06	
MEAN	1.47	2.15	1.62	1.45	1.25	1.92	1.85	3.55	3.84	1.50	1.23	0.94	
MAX	2.09	3.19	2.48	2.25	1.73	2.98	3.05	4.23	5.58	2.11	1.49	1.06	5.58
MIN	1.08	1.22	1.05	0.98	0.95	1.15	1.12	2.36	1.92	1.11	0.84	0.75	0.75

ANNUAL MAX MOMENTARY GAGE HEIGHT 5.62 M (A.D), AT 12.00 HOURS, ON DEC 3, 1981
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 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.40	10.80	65.80	16.20	25.40	22.60	9.00	78.40	129.25	35.10	15.15	0.00	
2	9.30	10.80	52.00	13.75	20.20	24.20	7.80	92.00	243.40	41.00	16.20	0.00	
3	10.80	11.10	41.50	13.75	15.85	25.40	6.90	147.25	308.70	43.00	18.65	4.80	
4	12.70	10.20	39.60	11.40	12.35	32.40	6.60	164.20	301.50	46.00	18.30	4.80	
5	17.25	10.50	36.45	9.00	9.90	28.80	9.00	146.50	289.80	39.60	16.55	3.60	
6	15.50	9.60	33.75	7.80	8.10	27.90	12.70	142.00	270.90	34.20	14.45	2.70	
7	12.70	9.60	27.90	5.40	6.60	33.30	13.05	175.40	242.55	31.05	13.40	2.10	
8	10.80	19.40	23.80	2.40	5.10	67.00	18.30	191.55	242.55	27.90	12.70	2.10	
9	9.30	26.60	19.40	3.90	3.60	54.50	33.30	190.70	211.10	25.40	12.00	2.10	
10	14.80	28.35	23.00	3.60	2.10	37.35	35.10	180.20	191.55	23.00	13.05	2.40	
11	14.80	58.25	25.00	5.10	1.80	31.05	25.00	169.00	223.85	21.40	12.35	2.40	
12	11.40	50.50	27.90	6.60	1.50	28.35	18.65	174.60	246.80	19.40	11.10	2.10	
13	9.90	48.00	29.25	13.75	5.70	30.15	15.85	171.40	238.30	17.25	10.50	1.80	
14	9.30	60.45	26.60	11.70	6.60	47.50	23.80	149.50	218.75	17.25	9.30	1.50	
15	10.80	53.50	24.60	9.90	6.30	81.40	24.60	145.75	200.05	16.20	9.00	0.90	
16	11.10	51.50	22.20	8.40	5.70	69.40	44.50	165.80	210.25	16.20	9.00	0.60	
17	14.10	52.00	20.60	15.50	5.40	87.10	31.95	153.25	204.30	15.50	8.40	0.30	
18	21.00	62.20	18.65	15.50	5.70	97.60	29.70	161.00	184.20	14.45	8.10	0.00	
19	45.00	55.00	17.60	16.90	4.80	69.40	52.00	166.60	155.50	13.05	7.80	0.00	
20	44.00	47.00	16.20	23.40	4.20	55.00	55.50	176.20	147.25	11.70	7.50	0.00	
21	32.85	58.25	15.15	27.45	4.20	46.50	81.40	179.40	125.60	10.50	7.20	0.00	
22	30.15	53.50	14.10	31.05	6.60	36.00	102.50	162.60	108.10	9.30	6.60	0.00	
23	38.25	74.20	13.75	38.70	9.60	28.35	76.60	135.25	93.40	8.40	6.30	0.00	
24	37.35	61.60	4.50	53.00	10.50	23.80	61.00	115.80	79.60	7.50	6.00	0.00	
25	29.25	85.00	7.80	44.00	16.90	18.65	51.00	106.70	68.80	6.90	5.70	0.00	
26	23.80	112.30	13.40	36.00	16.55	18.65	44.50	96.20	62.20	6.30	4.50	0.00	
27	19.80	105.30	23.40	27.90	19.80	16.55	36.45	78.40	53.50	8.10	3.00	0.00	
28	16.90	89.20	19.80	23.80	28.35	12.35	40.05	67.00	46.50	15.50	0.00	0.60	
29	14.10	89.90	16.20	22.20	27.90	10.50	41.00	58.80	41.00	14.80		3.90	
30	12.35	106.70	19.40	27.90	26.20	7.50	44.50	58.80	37.80	14.10		3.30	
31		80.80		28.80	25.40		72.40		36.90	14.10		4.80	
TOTAL	564.75	1602.10	739.30	574.75	348.90	1169.25	1124.70	4200.25	5213.94	624.15	282.80	46.80	16491.68 CMSDAY
MEAN	18.82	51.68	24.64	18.54	11.25	38.97	36.28	140.01	168.19	20.13	10.10	1.51	45.18 CMS
MAX	45.00	112.30	65.80	53.00	28.35	97.60	102.50	191.55	308.70	46.00	18.65	4.80	308.70 CMS
MIN	5.40	9.60	4.50	2.40	1.50	7.50	6.60	58.80	36.90	6.30	0.00	0.00	0.00 CMS
RUNOFF	48.794	138.421	63.875	49.658	30.145	101.023	97.174	362.901	450.485	53.926	24.434	4.044	1424.881 MCM

MOMENTARY PEAK 312.30 CMS, AT 5.62 M (A.D.) AT 12.00 HOURS, ON DEC 3, 1981

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

WATER YEAR 1981

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 — FLOOD PLAIN.

TYPE OF GAGE — STAFF GAGE.

ZERO GAGE AT BOTTOM AT — +0.00 M.(A.D.)

BENCH MARK — B.M-H.D.

LOCATION — ON RIGHT BANK ABOUT 3 METERS FROM THE TOP 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 — FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

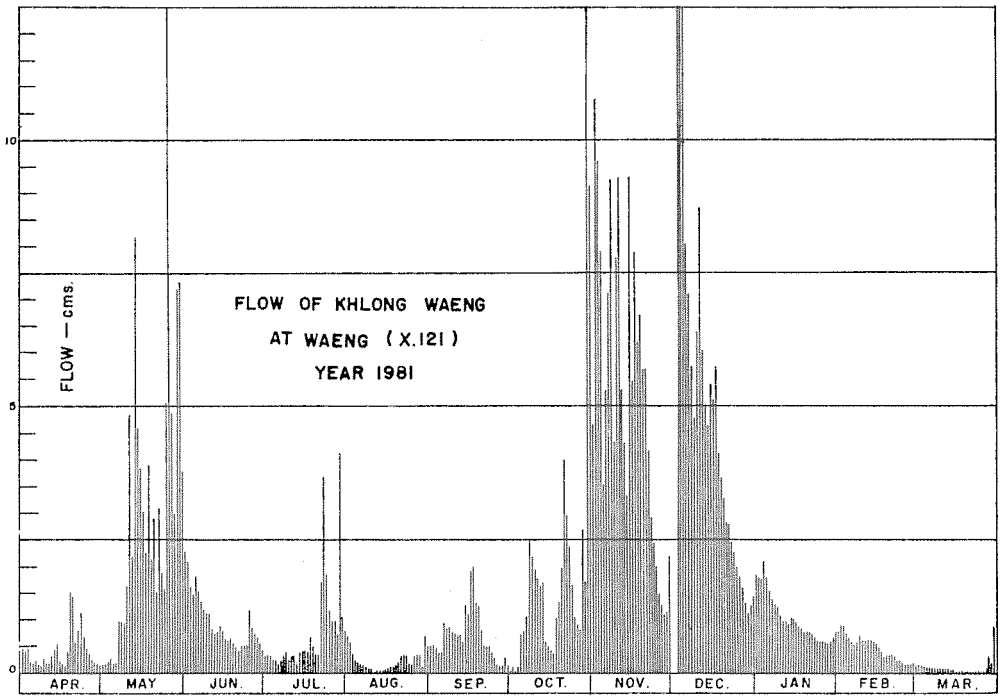
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 34 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.53	1.49	1.78	1.52	1.58	1.54	1.46	2.03	3.05	1.73	1.58	1.48	
2	1.52	1.49	1.76	1.52	1.57	1.55	1.47	2.55	4.03	1.73	1.60	1.48	
3	1.53	1.48	1.69	1.52	1.53	1.55	1.46	2.27	2.86	1.72	1.60	1.47	
4	1.50	1.51	1.68	1.51	1.51	1.53	1.47	2.40	2.51	1.76	1.58	1.47	
5	1.49	1.48	1.73	1.51	1.50	1.52	1.58	1.91	2.49	1.72	1.57	1.47	
6	1.50	1.48	1.69	1.50	1.48	1.61	1.58	2.18	2.34	1.70	1.56	1.46	
7	1.49	1.61	1.68	1.51	1.48	1.59	1.61	2.21	2.27	1.68	1.55	1.46	
8	1.47	1.61	1.65	1.52	1.48	1.60	1.81	2.43	2.14	1.66	1.55	1.46	
9	1.51	1.61	1.63	1.53	1.47	1.58	1.79	2.00	2.04	1.65	1.57	1.48	
10	1.49	1.68	1.63	1.50	1.47	1.58	1.75	2.23	2.19	1.63	1.56	1.46	
11	1.48	2.05	1.59	1.51	1.46	1.57	1.73	2.44	2.39	1.61	1.56	1.46	
12	1.51	1.77	1.58	1.52	1.46	1.58	1.70	2.21	2.20	1.61	1.56	1.46	
13	1.52	2.34	1.58	1.50	1.45	1.56	1.71	2.00	2.08	1.60	1.56	1.46	
14	1.54	2.01	1.60	1.53	1.46	1.66	1.56	1.89	2.03	1.61	1.56	1.46	
15	1.49	1.97	1.59	1.53	1.46	1.63	1.55	2.44	2.10	1.62	1.55	1.45	
16	1.48	1.87	1.58	1.54	1.47	1.74	1.54	2.10	2.07	1.61	1.54	1.44	
17	1.47	1.78	1.56	1.53	1.47	1.75	1.52	2.33	2.13	1.60	1.53	1.42	
18	1.52	1.96	1.58	1.57	1.49	1.66	1.62	2.17	2.00	1.59	1.52	1.42	
19	1.69	1.76	1.56	1.55	1.48	1.66	1.64	2.22	1.95	1.59	1.52	1.43	
20	1.68	1.86	1.55	1.53	1.50	1.59	1.68	2.13	1.88	1.58	1.52	1.42	
21	1.55	1.69	1.53	1.52	1.52	1.56	1.97	2.13	1.85	1.58	1.52	1.43	
22	1.59	1.88	1.54	1.72	1.52	1.54	1.87	1.93	1.85	1.58	1.52	1.42	
23	1.63	1.74	1.54	1.94	1.52	1.55	1.81	1.86	1.79	1.56	1.50	1.41	
24	1.57	1.70	1.54	1.75	1.50	1.53	1.71	1.82	1.78	1.56	1.49	1.42	
25	1.54	2.81	1.64	1.66	1.49	1.52	1.63	1.79	1.74	1.56	1.48	1.42	
26	1.53	2.06	1.59	1.61	1.52	1.48	1.60	1.74	1.73	1.56	1.48	1.42	
27	1.51	1.96	1.58	1.62	1.52	1.47	1.59	1.72	1.70	1.56	1.48	1.55	
28	1.50	1.84	1.57	1.58	1.52	1.48	1.84	1.70	1.68	1.55	1.48	1.46	
29	1.49	2.26	1.55	1.98	1.63	1.51	1.64	1.71	1.63	1.55		1.46	
30	1.49	1.97	1.53	1.63	1.57	1.48	2.68	1.77	1.65	1.56		1.59	
31		1.85		1.59	1.55		2.39		1.66	1.58		1.52	
MEAN	1.53	1.82	1.61	1.58	1.50	1.57	1.71	2.08	2.12	1.62	1.54	1.46	
MAX	1.69	2.81	1.78	1.98	1.63	1.75	2.68	2.55	4.03	1.76	1.60	1.59	4.03
MIN	1.47	1.48	1.53	1.50	1.45	1.47	1.46	1.70	1.63	1.55	1.48	1.41	1.41

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.18 M (A.D), AT 18.00 HOURS, ON DEC 1, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 1.10 M (A.D)
LEFT BANK ELEVATION 5.58 M (A.D)
RIGHT BANK ELEVATION 6.00 M (A.D), DRAINAGE AREA SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.41	0.17	2.24	0.34	0.76	0.48	0.07	4.63	*******	1.84	0.76	0.13	
2	0.34	0.17	2.08	0.34	0.69	0.55	0.10	10.75	*******	1.84	0.90	0.13	
3	0.41	0.13	1.53	0.34	0.41	0.55	0.07	7.27	14.94	1.76	0.90	0.10	
4	0.20	0.27	1.46	0.27	0.27	0.41	0.10	8.80	10.23	2.08	0.76	0.10	
5	0.17	0.13	1.84	0.27	0.20	0.34	0.76	3.40	9.97	1.76	0.69	0.10	
6	0.20	0.13	1.53	0.20	0.13	0.97	0.76	6.28	8.08	1.60	0.62	0.07	
7	0.17	0.97	1.46	0.27	0.13	0.83	0.97	6.61	7.27	1.46	0.55	0.07	
8	0.10	0.97	1.25	0.34	0.13	0.90	2.49	9.19	5.84	1.32	0.55	0.07	
9	0.27	0.97	1.11	0.41	0.10	0.76	2.32	4.30	4.74	1.25	0.69	0.13	
10	0.17	1.46	1.11	0.20	0.10	0.76	2.00	6.83	6.39	1.11	0.62	0.07	
11	0.13	4.85	0.83	0.27	0.07	0.69	1.84	9.32	8.68	0.97	0.62	0.07	
12	0.27	2.16	0.76	0.34	0.07	0.76	1.60	6.61	6.50	0.97	0.62	0.07	
13	0.34	8.08	0.76	0.20	0.03	0.62	1.68	4.30	5.18	0.90	0.62	0.07	
14	0.48	4.41	0.90	0.41	0.07	1.32	0.62	3.21	4.63	0.97	0.62	0.07	
15	0.17	4.00	0.83	0.41	0.07	1.11	0.55	9.32	5.40	1.04	0.55	0.03	
16	0.13	3.03	0.76	0.48	0.10	1.92	0.48	5.40	5.07	0.97	0.48	0.00	
17	0.10	2.24	0.62	0.41	0.10	2.00	0.34	7.96	5.73	0.90	0.41	0.00	
18	0.34	3.90	0.76	0.69	0.17	1.32	1.04	6.17	4.30	0.83	0.34	0.00	
19	1.53	2.08	0.62	0.55	0.13	1.32	1.18	6.72	3.80	0.83	0.34	0.00	
20	1.46	2.94	0.55	0.41	0.20	0.83	1.46	5.73	3.12	0.76	0.34	0.00	
21	0.55	1.53	0.41	0.34	0.34	0.62	4.00	5.73	2.85	0.76	0.34	0.00	
22	0.83	3.12	0.48	1.76	0.34	0.48	3.03	3.60	2.85	0.76	0.34	0.00	
23	1.11	1.92	0.48	3.70	0.34	0.55	2.49	2.94	2.32	0.62	0.20	0.00	
24	0.69	1.60	0.48	2.00	0.20	0.41	1.68	2.58	2.24	0.62	0.17	0.00	
25	0.48	14.24	1.18	1.32	0.17	0.34	1.11	2.32	1.92	0.62	0.13	0.00	
26	0.41	4.96	0.83	0.97	0.34	0.13	0.90	1.92	1.84	0.62	0.13	0.00	
27	0.27	3.90	0.76	1.04	0.34	0.10	0.83	1.76	1.60	0.62	0.13	0.55	
28	0.20	2.76	0.69	0.76	0.34	0.13	2.76	1.60	1.46	0.55	0.13	0.07	
29	0.17	7.16	0.55	4.10	1.11	0.27	1.18	1.68	1.11	0.55		0.07	
30	0.17	4.00	0.41	1.11	0.69	0.13	12.44	2.16	1.25	0.62		0.83	
31		2.85		0.83	0.55		8.68		1.32	0.76		0.34	
TOTAL	12.27	91.10	29.27	25.08	8.69	21.60	59.53	159.09	*******	32.26	13.55	3.14	******** CMSDAY
MEAN	0.41	2.94	0.98	0.81	0.28	0.72	1.92	5.30	*******	1.04	0.48	0.10	******* CMS
MAX	1.53	14.24	2.24	4.10	1.11	2.00	12.44	10.75	14.94	2.08	0.90	0.83	14.94 CMS
MIN	0.10	0.13	0.41	0.20	0.03	0.10	0.07	1.60	*******	0.55	0.13	0.00	******* CMS
RUNOFF	1.060	7.871	2.529	2.167	0.751	1.866	5.143	13.745	*******	2.787	1.171	0.271	******** MCM

MOMENTARY PEAK ******** CMS, AT 4.18 M (A.B), AT 18.00 HOURS, ON DEC 1, 1981
RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA WEST COAST

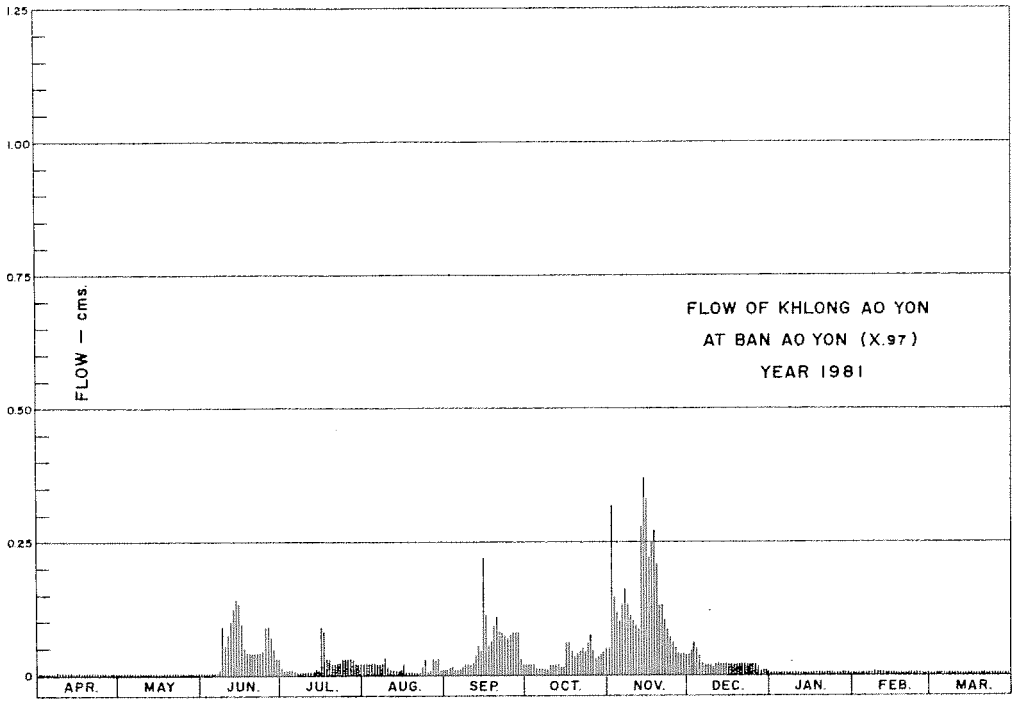
KHLONG AO YON AT BAN AO YON, PHUKET (X.97)

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 AT	+0.810 M. (M.S.L.)
BENCH MARK	B.M.-H.D.
LOCATION	ON LEFT BANK NEAR THE GAGE SITE.
ELEVATION	+3.050 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 TO DATE.
RATING OPERATION	
PERIOD OF RATING	1974, 1976 TO DATE.
RATED BY FLOAT	-
RATED BY CURRENT METER	1974, 1976 TO DATE.
STABILITY OF CHANNEL REGIMES	FAIRLY STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 40 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (MSL), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.81	0.81	0.81	1.08	1.10	1.08	1.10	1.14	1.13	0.81	0.81	0.81	
2	0.81	0.81	0.81	1.08	1.10	1.08	1.09	1.33	1.13	0.81	0.81	0.81	
3	0.81	0.81	0.81	1.08	1.10	1.09	1.09	1.23	1.15	0.81	0.81	0.81	
4	0.81	0.81	0.81	1.07	1.10	1.08	1.09	1.21	1.14	0.81	0.81	0.81	
5	0.81	0.81	1.06	1.07	1.09	1.08	1.08	1.20	1.12	0.81	0.81	0.81	
6	0.81	0.81	1.06	1.07	1.09	1.07	1.08	1.20	1.10	0.81	0.81	0.81	
7	0.81	0.81	1.06	1.05	1.09	1.07	1.08	1.24	1.10	0.81	0.81	0.81	
8	0.81	0.81	1.07	1.05	1.10	1.09	1.08	1.22	1.09	0.81	0.81	0.81	
9	0.81	0.81	1.19	1.05	1.11	1.09	1.08	1.21	1.09	0.81	0.81	0.81	
10	0.81	0.81	1.14	1.05	1.08	1.09	1.09	1.20	1.08	0.81	0.81	0.81	
11	0.81	0.81	1.18	1.05	1.07	1.10	1.09	1.19	1.09	0.81	0.81	0.81	
12	0.81	0.81	1.19	1.05	1.07	1.11	1.09	1.18	1.09	0.81	0.81	0.81	
13	0.81	0.81	1.21	1.05	1.07	1.15	1.09	1.29	1.09	0.81	0.81	0.81	
14	0.81	0.81	1.23	1.08	1.07	1.12	1.09	1.35	1.09	0.81	0.81	0.81	
15	0.81	0.81	1.22	1.04	1.08	1.28	1.08	1.33	1.09	0.81	0.81	0.81	
16	0.81	0.81	1.18	1.19	1.09	1.18	1.15	1.27	1.09	0.81	0.81	0.81	
17	0.81	0.81	1.14	1.17	1.05	1.14	1.15	1.39	1.09	0.81	0.81	0.81	
18	0.81	0.81	1.13	1.11	1.05	1.15	1.12	1.31	1.10	0.81	0.81	0.81	
19	0.81	0.81	1.13	1.11	1.05	1.19	1.11	1.27	1.10	0.81	0.81	0.81	
20	0.81	0.81	1.13	1.10	1.05	1.21	1.12	1.22	1.10	0.81	0.81	0.81	
21	0.81	0.81	1.13	1.10	1.05	1.17	1.13	1.22	1.10	0.81	0.81	0.81	
22	0.81	0.81	1.13	1.09	1.06	1.17	1.14	1.20	1.10	0.81	0.81	0.81	
23	0.81	0.81	1.13	1.09	1.07	1.16	1.13	1.17	1.10	0.81	0.81	0.81	
24	0.81	0.81	1.12	1.11	1.11	1.16	1.15	1.16	1.09	0.81	0.81	0.81	
25	0.81	0.81	1.19	1.11	1.07	1.16	1.16	1.15	1.09	0.81	0.81	0.81	
26	0.81	0.81	1.19	1.11	1.08	1.17	1.12	1.14	1.09	0.81	0.81	0.81	
27	0.81	0.81	1.15	1.11	1.11	1.17	1.11	1.13	1.09	0.81	0.81	0.81	
28	0.81	0.81	1.12	1.11	1.10	1.18	1.11	1.13	1.08	0.81	0.81	0.81	
29	0.81	0.81	1.11	1.10	1.11	1.11	1.13	1.13	1.08	0.81		0.81	
30	0.81	0.81	1.11	1.10	1.07	1.10	1.13	1.12	1.08	0.81		0.81	
31		0.81		1.10	1.08		1.14		1.08	0.00		0.81	
MEAN	0.81	0.81	1.10	1.09	1.08	1.13	1.11	1.22	1.10	0.78	0.81	0.81	
MAX	0.81	0.81	1.23	1.19	1.11	1.28	1.16	1.39	1.15	0.81	0.81	0.81	1.39
MIN	0.81	0.81	0.81	1.04	1.05	1.07	1.08	1.12	1.08	0.00	0.81	0.81	0.00

ANNUAL MAX MOMENTARY GAGE HEIGHT 1.83 M (MSL), AT 4.00 HOURS, ON NOV 17, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.81 M (MSL), RIVER BED [illegible] 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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.05	0.04	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.32	0.04	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.01	0.02	0.02	0.02	0.14	0.06	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.01	0.02	0.01	0.02	0.11	0.05	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.10	0.04	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.10	0.02	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.02	0.01	0.01	0.16	0.02	0.00	0.00	0.00	
8	0.00	0.00	0.01	0.00	0.02	0.02	0.01	0.13	0.02	0.00	0.00	0.00	
9	0.00	0.00	0.09	0.00	0.03	0.02	0.01	0.11	0.02	0.00	0.00	0.00	
10	0.00	0.00	0.05	0.00	0.01	0.02	0.02	0.10	0.01	0.00	0.00	0.00	
11	0.00	0.00	0.08	0.00	0.01	0.02	0.02	0.09	0.02	0.00	0.00	0.00	
12	0.00	0.00	0.09	0.00	0.01	0.03	0.02	0.08	0.02	0.00	0.00	0.00	
13	0.00	0.00	0.11	0.00	0.01	0.06	0.02	0.24	0.02	0.00	0.00	0.00	
14	0.00	0.00	0.14	0.01	0.01	0.04	0.02	0.37	0.02	0.00	0.00	0.00	
15	0.00	0.00	0.13	0.00	0.01	0.22	0.01	0.32	0.02	0.00	0.00	0.00	
16	0.00	0.00	0.08	0.09	0.02	0.08	0.06	0.21	0.02	0.00	0.00	0.00	
17	0.00	0.00	0.05	0.08	0.00	0.05	0.06	0.47	0.02	0.00	0.00	0.00	
18	0.00	0.00	0.04	0.03	0.00	0.06	0.04	0.27	0.02	0.00	0.00	0.00	
19	0.00	0.00	0.04	0.03	0.00	0.09	0.03	0.21	0.02	0.00	0.00	0.00	
20	0.00	0.00	0.04	0.02	0.00	0.11	0.04	0.13	0.02	0.00	0.00	0.00	
21	0.00	0.00	0.04	0.02	0.00	0.08	0.04	0.13	0.02	0.00	0.00	0.00	
22	0.00	0.00	0.04	0.02	0.00	0.08	0.05	0.10	0.02	0.00	0.00	0.00	
23	0.00	0.00	0.04	0.02	0.01	0.07	0.04	0.08	0.02	0.00	0.00	0.00	
24	0.00	0.00	0.04	0.03	0.03	0.07	0.06	0.07	0.02	0.00	0.00	0.00	
25	0.00	0.00	0.09	0.03	0.01	0.07	0.07	0.06	0.02	0.00	0.00	0.00	
26	0.00	0.00	0.09	0.03	0.01	0.08	0.04	0.05	0.02	0.00	0.00	0.00	
27	0.00	0.00	0.06	0.03	0.03	0.08	0.03	0.04	0.02	0.00	0.00	0.00	
28	0.00	0.00	0.04	0.03	0.02	0.09	0.03	0.04	0.01	0.00	0.00	0.00	
29	0.00	0.00	0.03	0.02	0.03	0.03	0.04	0.04	0.01	0.00		0.00	
30	0.00	0.00	0.03	0.02	0.01	0.02	0.04	0.04	0.01	0.00		0.00	
31		0.00		0.02	0.01		0.05		0.01	0.00		0.00	
TOTAL	0.00	0.00	1.45	0.59	0.43	1.56	0.96	4.36	0.70	0.00	0.00	0.00	10.05 CMSDAY
MEAN	0.00	0.00	0.05	0.02	0.01	0.05	0.03	0.15	0.02	0.00	0.00	0.00	0.03 CMS
MAX	0.00	0.00	0.14	0.09	0.03	0.22	0.07	0.47	0.06	0.00	0.00	0.00	0.47 CMS
MIN	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.04	0.01	0.00	0.00	0.00	0.00 CMS
RUNOFF	0.000	0.000	0.125	0.051	0.037	0.135	0.083	0.377	0.060	0.000	0.000	0.000	0.868 MCM

MOMENTARY PEAK 2.31 CMS, AT 1.83 M (MSL), AT 4.00 HOURS, ON NOV 17, 1981
RUNOFF YIELD 13.78 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 1157.00 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 LEFT 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-H.D.

LOCATION — ON LEFT BANK NEAR THE GAGE OBSERVER'S HOUSE.

ELEVATION — +8.876 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS GOOD. STAGE-DISCHARGE RELATION DEFINED BY 140 DISCHARGE MEASUREMENTS MADE IN 1981.

REMARKS — INCLUDING CULVERT FLOW I-III.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

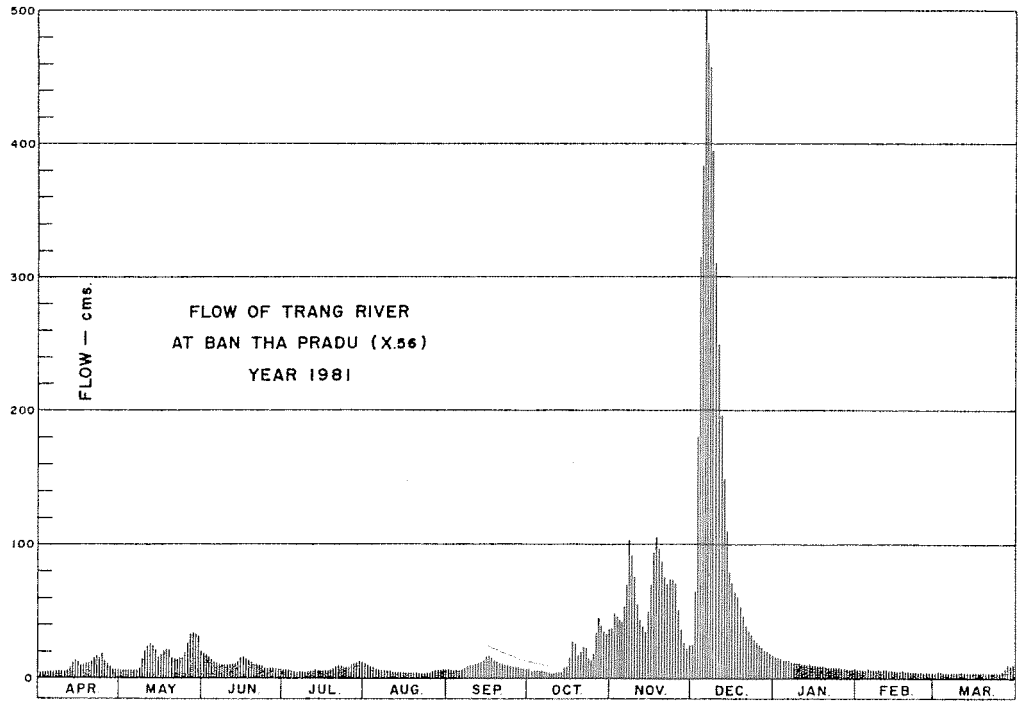
DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.30	1.43	2.14	1.45	1.76	1.52	1.47	2.81	2.81	2.04	1.44	1.29	
2	1.30	1.41	2.12	1.42	1.70	1.49	1.42	3.28	3.41	1.98	1.43	1.29	
3	1.29	1.40	2.04	1.41	1.64	1.45	1.40	3.23	4.85	1.95	1.43	1.28	
4	1.29	1.44	1.91	1.38	1.56	1.45	1.38	3.10	7.64	1.92	1.43	1.28	
5	1.29	1.45	1.82	1.37	1.49	1.41	1.37	3.00	8.10	1.89	1.42	1.28	
6	1.30	1.44	1.77	1.36	1.46	1.40	1.35	3.65	8.37	1.87	1.42	1.28	
7	1.31	1.44	1.73	1.35	1.44	1.46	1.34	4.55	8.60	1.84	1.42	1.27	
8	1.33	1.43	1.67	1.33	1.42	1.65	1.33	4.90	8.45	1.80	1.41	1.27	
9	1.34	1.74	1.67	1.32	1.40	1.73	1.32	4.30	8.16	1.78	1.40	1.26	
10	1.35	2.21	1.73	1.34	1.38	1.69	1.31	3.56	7.82	1.76	1.38	1.26	
11	1.37	2.40	1.71	1.33	1.38	1.63	1.30	3.23	7.31	1.74	1.37	1.26	
12	1.53	2.42	1.76	1.43	1.36	1.67	1.31	3.03	6.45	1.72	1.36	1.25	
13	1.61	2.37	1.79	1.46	1.35	1.82	1.30	2.86	5.58	1.70	1.36	1.24	
14	1.86	2.20	1.77	1.48	1.34	1.77	1.42	2.78	4.90	1.69	1.36	1.23	
15	1.80	1.95	1.84	1.45	1.32	2.07	1.57	3.42	4.30	1.68	1.36	1.23	
16	1.63	2.00	1.94	1.44	1.31	2.07	1.75	4.01	3.95	1.66	1.36	1.23	
17	1.56	2.25	2.01	1.41	1.30	1.94	2.47	4.75	3.77	1.64	1.37	1.22	
18	1.64	2.28	1.91	1.40	1.29	1.86	2.45	4.96	3.68	1.62	1.36	1.22	
19	1.76	2.32	1.84	1.45	1.28	1.84	2.05	4.61	3.45	1.60	1.35	1.21	
20	1.81	2.04	1.73	1.52	1.27	1.77	2.11	4.49	3.21	1.57	1.34	1.21	
21	1.98	1.92	1.70	1.66	1.26	1.79	2.15	4.03	3.01	1.55	1.34	1.21	
22	2.09	1.90	1.68	1.69	1.26	1.79	2.37	3.98	2.84	1.55	1.33	1.21	
23	1.92	1.88	1.63	1.64	1.26	1.74	2.03	4.40	2.69	1.53	1.32	1.21	
24	2.12	1.90	1.59	1.55	1.26	1.71	1.90	4.40	2.58	1.52	1.32	1.21	
25	1.88	2.12	1.55	1.53	1.31	1.65	1.97	3.96	2.47	1.51	1.32	1.21	
26	1.70	2.43	1.51	1.60	1.36	1.61	2.41	3.47	2.39	1.50	1.30	1.21	
27	1.59	2.75	1.50	1.68	1.34	1.55	3.18	3.12	2.31	1.49	1.30	1.26	
28	1.52	2.85	1.50	1.76	1.44	1.50	2.90	2.84	2.24	1.48	1.29	1.69	
29	1.48	2.70	1.49	1.82	1.48	1.48	2.77	2.66	2.19	1.48		1.52	
30	1.44	2.70	1.47	1.80	1.50	1.50	2.68	2.75	2.14	1.47		1.52	
31		2.28		1.79	1.52		2.93		2.08	1.46		1.79	
MEAN	1.58	2.03	1.75	1.50	1.40	1.67	1.89	3.67	4.57	1.68	1.37	1.29	
MAX	2.12	2.85	2.14	1.82	1.76	2.07	3.18	4.96	8.60	2.04	1.44	1.79	8.60
MIN	1.29	1.40	1.47	1.32	1.26	1.40	1.30	2.66	2.08	1.46	1.29	1.21	1.21

ANNUAL MAX MOMENTARY GAGE HEIGHT — 8.60 M (A.D), AT 7.00 HOURS, ON DEC 7, 1981

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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.00	6.45	18.80	6.75	11.40	7.80	7.05	34.81	34.81	16.80	6.60	4.90	
2	5.00	6.15	18.40	6.30	10.50	7.35	6.30	48.40	52.30	15.60	6.45	4.90	
3	4.90	6.00	16.80	6.15	9.60	6.75	6.00	46.90	100.25	15.00	6.45	4.80	
4	4.90	6.60	14.20	5.80	8.40	6.75	5.80	43.00	293.80	14.40	6.45	4.80	
5	4.90	6.75	12.40	5.70	7.35	6.15	5.70	40.00	357.00	13.80	6.30	4.80	
6	5.00	6.60	11.55	5.60	6.90	6.00	5.50	59.50	431.00	13.40	6.30	4.80	
7	5.10	6.60	10.95	5.50	6.60	6.90	5.40	88.75	560.00	12.80	6.30	4.70	
8	5.30	6.45	10.05	5.30	6.30	9.75	5.30	102.17	470.00	12.00	6.15	4.70	
9	5.40	11.10	10.05	5.20	6.00	10.95	5.20	79.50	370.80	11.70	6.00	4.60	
10	5.50	20.24	10.95	5.40	5.80	10.35	5.10	56.80	315.40	11.40	5.80	4.60	
11	5.70	24.86	10.65	5.30	5.80	9.45	5.00	46.90	259.90	11.10	5.70	4.60	
12	7.95	25.34	11.40	6.45	5.60	10.05	5.10	40.90	191.50	10.80	5.60	4.50	
13	9.15	24.13	11.85	6.90	5.50	12.40	5.00	36.03	136.80	10.50	5.60	4.40	
14	13.20	20.00	11.55	7.20	5.40	11.55	6.30	34.09	102.17	10.35	5.60	4.30	
15	12.00	15.00	12.80	6.75	5.20	17.40	8.55	52.60	79.50	10.20	5.60	4.30	
16	9.45	16.00	14.80	6.60	5.10	17.40	11.25	70.30	68.50	9.90	5.60	4.30	
17	8.40	21.21	16.20	6.15	5.00	14.80	26.56	96.42	63.10	9.60	5.70	4.20	
18	9.60	21.94	14.20	6.00	4.90	13.20	26.07	104.47	60.40	9.30	5.60	4.20	
19	11.40	22.91	12.80	6.75	4.80	12.80	17.00	91.05	53.50	9.00	5.50	4.10	
20	12.20	16.80	10.95	7.80	4.70	11.55	18.20	86.45	46.30	8.55	5.40	4.10	
21	15.60	14.40	10.50	9.90	4.60	11.85	19.00	70.90	40.30	8.25	5.40	4.10	
22	17.80	14.00	10.20	10.35	4.60	11.85	24.13	69.40	35.54	8.25	5.30	4.10	
23	14.40	13.60	9.45	9.60	4.60	11.10	16.60	83.00	31.90	7.95	5.20	4.10	
24	18.40	14.00	8.85	8.25	4.60	10.65	14.00	83.00	29.23	7.80	5.20	4.10	
25	13.60	18.40	8.25	7.95	5.10	9.75	15.40	68.80	26.56	7.65	5.20	4.10	
26	10.50	25.59	7.65	9.00	5.60	9.15	25.10	54.10	24.61	7.50	5.00	4.10	
27	8.85	33.36	7.50	10.20	5.40	8.25	45.40	43.60	22.67	7.35	5.00	4.60	
28	7.80	35.79	7.50	11.40	6.60	7.50	37.00	35.54	20.97	7.20	4.90	10.35	
29	7.20	32.14	7.35	12.40	7.20	7.20	33.84	31.17	19.80	7.20		7.80	
30	6.60	32.14	7.05	12.00	7.50	7.50	31.66	33.36	18.80	7.05		7.80	
31		21.94		11.85	7.80		37.90		17.60	6.90		11.85	
TOTAL	270.80	546.49	345.65	236.50	194.45	304.15	486.41	1831.91	4335.00	319.30	159.90	157.60	9188.16 CMSDAY
MEAN	9.03	17.63	11.52	7.63	6.27	10.14	15.69	61.06	139.84	10.30	5.71	5.08	25.17 CMS
MAX	18.40	35.79	18.80	12.40	11.40	17.40	45.40	104.47	560.00	16.80	6.60	11.85	560.00 CMS
MIN	4.90	6.00	7.05	5.20	4.60	6.00	5.00	31.17	17.60	6.90	4.90	4.10	4.10 CMS
RUNOFF	23.397	47.217	29.864	20.434	16.800	26.279	42.026	158.277	374.544	27.587	13.815	13.617	793.856 MCM

MOMENTARY PEAK 560.00 CMS, AT 8.60 M (A.D), AT 7.00 HOURS, ON DEC 7, 1981

RUNOFF YIELD 13.98 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 310.94 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

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 SIDE OF 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 AT — +0.00 M. (A.D.)

BENCH MARK — B.M.-M.D.

LOCATION — ABOUT 5 METERS FROM THE ABUTMENT OF THE BRIDGE, ON RIGHT BANK FOR B.M.1 AND ON LEFT BANK FOR B.M.2.

ELEVATION — B.M.1=+7.775 M. (A.D.) AND B.M.2=+6.470 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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.

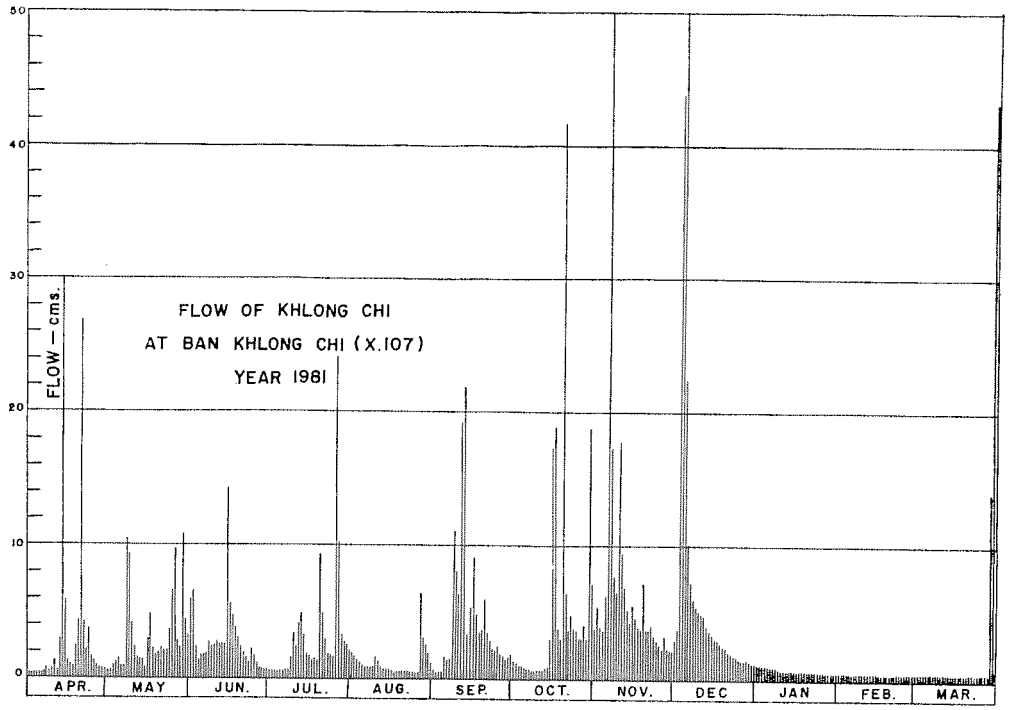
OVERBANK FLOW CONDITIONS — NO OVERBANK FLOW.

GENERAL DESCRIPTION — RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 21 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.25	0.35	0.93	0.38	0.56	0.33	0.46	0.77	0.64	0.45	0.33	0.29	
2	0.25	0.35	0.98	0.36	0.50	0.32	0.43	0.93	0.77	0.45	0.33	0.29	
3	0.25	0.40	0.63	0.36	0.48	0.33	0.42	0.79	2.66	0.43	0.33	0.29	
4	0.25	0.43	0.46	0.36	0.45	0.33	0.42	0.75	4.57	0.42	0.33	0.29	
5	0.25	0.48	0.50	0.35	0.40	0.50	0.40	0.74	2.28	0.42	0.33	0.29	
6	0.25	0.40	0.50	0.35	0.40	0.47	0.36	3.13	1.31	0.41	0.33	0.29	
7	0.26	0.40	0.50	0.35	0.40	0.48	0.38	1.53	1.09	0.40	0.33	0.29	
8	0.35	1.28	0.64	0.35	0.40	0.82	0.38	1.08	0.98	0.39	0.33	0.29	
9	0.34	1.21	0.57	0.36	0.40	1.31	0.36	0.99	0.92	0.39	0.33	0.29	
10	0.35	0.81	0.62	0.74	0.49	0.98	0.35	1.70	0.89	0.38	0.33	0.28	
11	1.34	0.61	0.64	0.59	0.46	1.78	0.35	1.11	0.87	0.38	0.33	0.28	
12	0.84	0.50	0.62	0.86	0.38	1.91	0.35	1.03	0.86	0.37	0.33	0.28	
13	0.90	0.47	0.61	0.87	0.38	1.83	0.37	0.89	0.78	0.37	0.32	0.28	
14	2.28	0.46	0.62	0.67	0.35	0.70	0.40	0.80	0.74	0.36	0.30	0.28	
15	0.80	0.40	1.52	0.52	0.35	0.90	0.41	0.92	0.72	0.34	0.30	0.27	
16	0.47	0.51	0.91	0.46	0.35	1.19	1.69	0.87	0.69	0.34	0.30	0.27	
17	0.43	0.86	0.80	0.45	0.30	0.80	1.75	0.80	0.67	0.34	0.30	0.27	
18	0.38	0.50	0.78	0.49	0.30	0.70	0.75	0.74	0.65	0.34	0.30	0.27	
19	0.60	0.50	0.68	0.46	0.30	0.74	0.66	1.05	0.62	0.34	0.30	0.27	
20	0.75	0.53	0.65	1.19	0.30	0.96	2.72	0.76	0.60	0.34	0.30	0.27	
21	2.13	0.58	0.55	0.82	0.30	0.77	0.93	0.73	0.56	0.34	0.30	0.26	
22	0.74	0.55	0.49	0.65	0.30	0.67	0.75	0.79	0.54	0.34	0.30	0.25	
23	0.55	0.55	0.48	0.53	0.30	0.59	0.87	0.71	0.51	0.34	0.30	0.25	
24	0.77	0.57	0.46	0.50	0.30	0.56	0.77	0.67	0.50	0.34	0.30	0.25	
25	0.50	1.00	0.57	0.50	0.30	0.60	0.75	0.61	0.49	0.34	0.30	0.25	
26	0.45	1.22	0.60	2.01	0.31	0.54	0.69	0.58	0.49	0.34	0.30	0.25	
27	0.39	0.63	0.50	1.20	0.99	0.50	0.66	0.72	0.48	0.34	0.30	0.61	
28	0.39	0.57	0.48	0.70	0.68	0.48	0.80	0.60	0.48	0.34	0.30	0.34	
29	0.38	1.30	0.42	0.64	0.64	0.50	0.66	0.56	0.47	0.33		1.56	
30	0.36	0.75	0.39	0.66	0.45	0.50	1.68	0.54	0.45	0.33		2.77	
31		0.68		0.56	0.40		0.84		0.45	0.33		0.99	
MEAN	0.61	0.64	0.64	0.62	0.42	0.77	0.74	0.93	0.93	0.37	0.31	0.43	
MAX	2.28	1.30	1.52	2.01	0.99	1.91	2.72	3.13	4.57	0.45	0.33	2.77	4.57
MIN	0.25	0.35	0.39	0.35	0.30	0.32	0.35	0.54	0.45	0.33	0.30	0.25	0.25

ANNUAL MAX MOMENTARY GAGE HEIGHT 4.89 M (A.D), AT 12.00 HOURS, ON DEC 4, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.30	0.60	5.59	0.72	2.08	0.52	1.28	3.76	2.72	1.20	0.52	0.38	
2	0.30	0.60	6.24	0.64	1.60	0.48	1.04	5.59	3.76	1.20	0.52	0.38	
3	0.30	0.80	2.64	0.64	1.44	0.52	0.96	3.92	40.08	1.04	0.52	0.38	
4	0.30	1.04	1.28	0.64	1.20	0.52	0.96	3.60	104.20	0.96	0.52	0.38	
5	0.30	1.44	1.60	0.60	0.80	1.60	0.80	3.52	30.32	0.96	0.52	0.38	
6	0.30	0.80	1.60	0.60	0.80	1.36	0.64	53.37	10.96	0.88	0.52	0.38	
7	0.32	0.80	1.60	0.60	0.80	1.44	0.72	14.74	7.67	0.80	0.52	0.38	
8	0.60	10.48	2.72	0.60	0.80	4.24	0.72	7.54	6.24	0.76	0.52	0.38	
9	0.56	9.36	2.16	0.64	0.80	10.96	0.64	6.37	5.46	0.76	0.52	0.38	
10	0.60	4.12	2.56	3.52	1.52	6.24	0.60	17.80	5.08	0.72	0.52	0.36	
11	11.44	2.48	2.72	2.32	1.28	19.24	0.60	7.94	4.84	0.72	0.52	0.36	
12	4.48	1.60	2.56	4.72	0.72	21.82	0.60	6.89	4.72	0.68	0.52	0.36	
13	5.20	1.36	2.48	4.84	0.72	20.20	0.68	5.08	3.84	0.68	0.48	0.36	
14	30.32	1.28	2.56	2.96	0.60	3.20	0.80	4.00	3.52	0.64	0.40	0.36	
15	4.00	0.80	14.56	1.76	0.60	5.20	0.88	5.46	3.36	0.56	0.40	0.34	
16	1.36	1.68	5.33	1.28	0.60	9.06	17.62	4.84	3.12	0.56	0.40	0.34	
17	1.04	4.72	4.00	1.20	0.40	4.00	18.70	4.00	2.96	0.56	0.40	0.34	
18	0.72	1.60	3.84	1.52	0.40	3.20	3.60	3.52	2.80	0.56	0.40	0.34	
19	2.40	1.60	3.04	1.28	0.40	3.52	2.88	7.15	2.56	0.56	0.40	0.34	
20	3.60	1.84	2.80	9.06	0.40	5.98	41.76	3.68	2.40	0.56	0.40	0.34	
21	26.72	2.24	2.00	4.24	0.40	3.76	5.59	3.44	2.08	0.56	0.40	0.32	
22	3.52	2.00	1.52	2.80	0.40	2.96	3.60	3.92	1.92	0.56	0.40	0.30	
23	2.00	2.00	1.44	1.84	0.40	2.32	4.84	3.28	1.68	0.56	0.40	0.30	
24	3.76	2.16	1.28	1.60	0.40	2.08	3.76	2.96	1.60	0.56	0.40	0.30	
25	1.60	6.50	2.16	1.60	0.40	2.40	3.60	2.48	1.52	0.56	0.40	0.30	
26	1.20	9.52	2.40	24.02	0.44	1.92	3.12	2.24	1.52	0.56	0.40	0.30	
27	0.76	2.64	1.60	9.20	6.37	1.60	2.88	3.36	1.44	0.56	0.40	2.48	
28	0.76	2.16	1.44	3.20	3.04	1.44	4.00	2.40	1.44	0.56	0.40	0.56	
29	0.72	10.80	0.96	2.72	2.72	1.60	2.88	2.08	1.36	0.52		15.28	
30	0.64	3.60	0.76	2.88	1.20	1.60	17.44	1.92	1.20	0.52		43.16	
31		3.04		2.08	0.80		4.48		1.20	0.52		6.37	
TOTAL	110.12	95.66	87.44	96.32	34.53	144.98	152.67	200.85	267.57	21.40	12.72	76.93	1301.19 CMSDAY
MEAN	3.67	3.09	2.91	3.11	1.11	4.83	4.92	6.69	8.63	0.69	0.45	2.48	3.56 CMS
MAX	30.32	10.80	14.56	24.02	6.37	21.82	41.76	53.37	104.20	1.20	0.52	43.16	104.20 CMS
MIN	0.30	0.60	0.76	0.60	0.40	0.48	0.60	1.92	1.20	0.52	0.40	0.30	0.30 CMS
RUNOFF	9.514	8.265	7.555	8.322	2.983	12.526	13.191	17.353	23.118	1.849	1.099	6.647	112.423 MCM

MOMENTARY PEAK 117.58 CMS, AT 4.89 M (A.D), AT 12.00 HOURS, ON DEC 4, 1981

RUNOFF YIELD 14.37 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 474.11 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA WEST COAST

KHLONG KALASE YAI AT BAN ROM MUANG, TRANG (X.108)

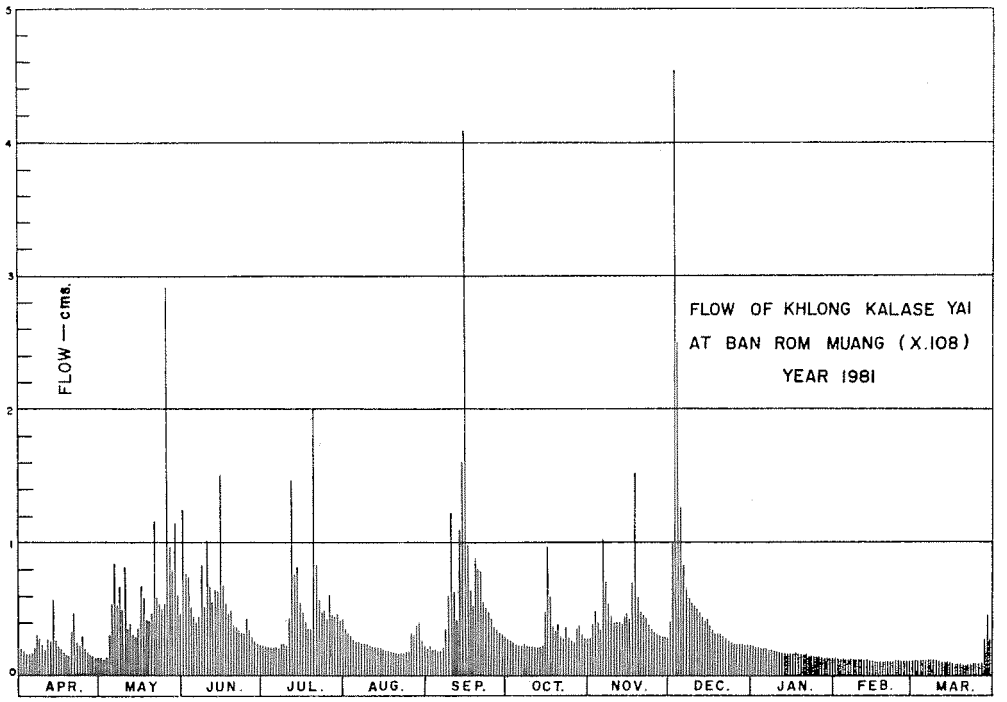
LOCATION — LAT. 7°-44'-03" N., LONG. 99°-20'-00" E., AT BAN ROM MUANG, AMPHOE SIKAO, TRANG.

DRAINAGE AREA	57 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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	STABLE, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS FAIR. STAGE-DISCHARGE RELATION DEFINED BY 23 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.73	0.69	1.32	0.78	0.90	0.75	0.83	0.82	0.88	0.77	0.68	0.66	
2	0.73	0.69	1.11	0.78	0.86	0.79	0.82	0.95	0.97	0.77	0.68	0.66	
3	0.72	0.68	1.10	0.77	0.84	0.75	0.81	0.96	2.24	0.76	0.68	0.66	
4	0.72	0.83	0.98	0.77	0.82	0.75	0.80	0.88	1.81	0.76	0.68	0.66	
5	0.72	1.04	0.94	0.77	0.81	0.74	0.79	0.86	1.34	0.75	0.67	0.66	
6	0.75	1.14	0.90	0.77	0.81	0.74	0.78	1.23	1.19	0.75	0.67	0.66	
7	0.84	0.99	0.93	0.76	0.80	0.75	0.79	1.10	1.08	0.74	0.67	0.66	
8	0.81	1.06	1.12	0.76	0.80	0.83	0.78	1.01	1.03	0.74	0.67	0.66	
9	0.75	0.97	0.99	0.80	0.79	1.00	0.77	0.94	1.00	0.74	0.67	0.67	
10	0.74	1.13	1.22	0.79	0.79	1.31	0.77	0.90	0.99	0.74	0.67	0.66	
11	0.82	0.86	1.05	0.85	0.78	1.04	0.77	0.90	0.96	0.73	0.67	0.66	
12	0.81	0.90	1.00	1.41	0.77	0.91	0.77	0.91	0.94	0.73	0.67	0.65	
13	1.01	0.85	1.05	1.11	0.77	1.31	0.77	0.89	0.92	0.73	0.66	0.65	
14	0.83	0.83	1.04	1.13	0.76	1.43	0.77	0.93	0.91	0.73	0.66	0.64	
15	0.78	0.87	1.42	1.00	0.76	2.14	0.78	0.95	0.92	0.72	0.66	0.64	
16	0.75	0.98	1.09	0.98	0.75	1.20	1.21	0.91	0.90	0.72	0.66	0.64	
17	0.73	1.07	1.04	0.90	0.74	1.10	1.11	1.07	0.87	0.72	0.66	0.63	
18	0.71	1.00	0.95	0.86	0.74	0.99	0.91	1.42	0.85	0.72	0.66	0.63	
19	0.72	0.90	0.96	0.87	0.74	1.18	0.85	1.04	0.85	0.71	0.66	0.62	
20	0.77	0.92	0.93	1.59	0.73	1.13	0.89	0.99	0.84	0.71	0.66	0.62	
21	0.95	1.29	0.89	1.21	0.73	1.12	0.85	0.94	0.83	0.71	0.66	0.62	
22	0.79	1.02	0.87	1.03	0.72	1.01	0.83	0.94	0.82	0.70	0.66	0.62	
23	0.76	1.00	0.86	0.95	0.72	0.98	0.88	0.91	0.81	0.70	0.66	0.62	
24	0.84	0.97	0.84	0.97	0.73	0.96	0.83	0.88	0.80	0.70	0.66	0.63	
25	0.75	0.99	0.93	0.91	0.73	0.95	0.82	0.86	0.79	0.70	0.66	0.63	
26	0.72	1.85	0.89	1.03	0.85	0.89	0.80	0.85	0.79	0.69	0.66	0.63	
27	0.71	1.11	0.86	0.95	0.85	0.86	0.87	0.85	0.79	0.69	0.66	0.63	
28	0.70	1.18	0.81	0.93	0.89	0.85	0.89	0.84	0.78	0.69	0.66	0.64	
29	0.69	1.28	0.80	0.95	0.91	0.85	0.84	0.84	0.78	0.69		0.94	
30	0.69	1.01	0.79	0.91	0.83	0.84	0.83	0.83	0.78	0.69		0.87	
31		0.95		0.93	0.77		0.83		0.77	0.68		0.71	
MEAN	0.77	1.00	0.99	0.94	0.79	1.00	0.84	0.95	0.98	0.72	0.67	0.66	
MAX	1.01	1.85	1.42	1.59	0.91	2.14	1.21	1.42	2.24	0.77	0.68	0.94	2.24
MIN	0.69	0.68	0.79	0.76	0.72	0.74	0.77	0.82	0.77	0.68	0.66	0.62	0.62

ANNUAL MAX MOMENTARY GAGE HEIGHT 3.38 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981
ZERO GAGE AT BOTTOM ELEVATION 0.00 M (A.D), RIVER BED 0.43 M (A.D)
LEFT BANK ELEVATION 6.21 M (A.D)
RIGHT BANK ELEVATION 6.65 M (A.D), DRAINAGE AREA 57 SQUARE KILOMETERS



DISCHARGE, IN CUBIC METER PER SECOND, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.18	0.14	1.25	0.23	0.40	0.20	0.29	0.28	0.37	0.22	0.13	0.12	
2	0.18	0.14	0.77	0.23	0.34	0.24	0.28	0.47	0.50	0.22	0.13	0.12	
3	0.17	0.13	0.75	0.22	0.31	0.20	0.26	0.49	4.53	0.21	0.13	0.12	
4	0.17	0.29	0.52	0.22	0.28	0.20	0.25	0.37	2.78	0.21	0.13	0.12	
5	0.17	0.63	0.46	0.22	0.26	0.19	0.24	0.34	1.30	0.20	0.13	0.12	
6	0.20	0.83	0.40	0.22	0.26	0.19	0.23	1.02	0.93	0.20	0.13	0.12	
7	0.31	0.53	0.44	0.21	0.25	0.20	0.24	0.75	0.71	0.19	0.13	0.12	
8	0.26	0.67	0.79	0.21	0.25	0.29	0.23	0.57	0.61	0.19	0.13	0.12	
9	0.20	0.50	0.53	0.25	0.24	0.55	0.22	0.46	0.55	0.19	0.13	0.13	
10	0.19	0.81	1.00	0.24	0.24	1.22	0.22	0.40	0.53	0.19	0.13	0.12	
11	0.28	0.34	0.65	0.32	0.23	0.63	0.22	0.40	0.49	0.18	0.13	0.12	
12	0.26	0.40	0.55	1.48	0.22	0.41	0.22	0.41	0.46	0.18	0.13	0.11	
13	0.57	0.32	0.65	0.77	0.22	1.22	0.22	0.38	0.43	0.18	0.12	0.11	
14	0.29	0.29	0.63	0.81	0.21	1.54	0.22	0.44	0.41	0.18	0.12	0.10	
15	0.23	0.35	1.51	0.55	0.21	4.08	0.23	0.47	0.43	0.17	0.12	0.10	
16	0.20	0.52	0.73	0.52	0.20	0.95	0.97	0.41	0.40	0.17	0.12	0.10	
17	0.18	0.69	0.63	0.40	0.19	0.75	0.77	0.69	0.35	0.17	0.12	0.10	
18	0.16	0.55	0.47	0.34	0.19	0.53	0.41	1.51	0.32	0.17	0.12	0.10	
19	0.17	0.40	0.49	0.35	0.19	0.91	0.32	0.63	0.32	0.16	0.12	0.09	
20	0.22	0.43	0.44	2.02	0.18	0.81	0.38	0.53	0.31	0.16	0.12	0.09	
21	0.47	1.17	0.38	0.97	0.18	0.79	0.32	0.46	0.29	0.16	0.12	0.09	
22	0.24	0.59	0.35	0.61	0.17	0.57	0.29	0.46	0.28	0.15	0.12	0.09	
23	0.21	0.55	0.34	0.47	0.17	0.52	0.37	0.41	0.26	0.15	0.12	0.09	
24	0.31	0.50	0.31	0.50	0.18	0.49	0.29	0.37	0.25	0.15	0.12	0.10	
25	0.20	0.53	0.44	0.41	0.18	0.47	0.28	0.34	0.24	0.15	0.12	0.10	
26	0.17	2.92	0.38	0.61	0.32	0.38	0.25	0.32	0.24	0.14	0.12	0.10	
27	0.16	0.77	0.34	0.47	0.32	0.34	0.35	0.32	0.24	0.14	0.12	0.10	
28	0.15	0.91	0.26	0.44	0.38	0.32	0.38	0.31	0.23	0.14	0.12	0.10	
29	0.14	1.15	0.25	0.47	0.41	0.32	0.31	0.31	0.23	0.14		0.46	
30	0.14	0.57	0.24	0.41	0.29	0.31	0.29	0.29	0.23	0.14		0.35	
31		0.47		0.44	0.22		0.29		0.22	0.13		0.16	
TOTAL	6.78	19.09	16.95	15.61	7.69	19.82	9.84	14.61	19.44	5.33	3.48	3.97	142.61 CMSDAY
MEAN	0.23	0.62	0.56	0.50	0.25	0.66	0.32	0.49	0.63	0.17	0.12	0.13	0.39 CMS
MAX	0.57	2.92	1.51	2.02	0.41	4.08	0.97	1.51	4.53	0.22	0.13	0.46	4.53 CMS
MIN	0.14	0.13	0.24	0.21	0.17	0.19	0.22	0.28	0.22	0.13	0.12	0.09	0.09 CMS
RUNOFF	0.586	1.649	1.464	1.349	0.664	1.712	0.850	1.262	1.680	0.461	0.301	0.343	12.321 MCM

MOMENTARY PEAK 11.27 CMS, AT 3.38 M (A.D), AT 18.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD 6.85 LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD 197.63 LITERS/SECOND/SQUARE KM

WATER YEAR 1981

SOUTHERN PENINSULA WEST COAST

KHLONG LAMPHU LA AT BAN THUNG NGIU, TRANG (X.110)

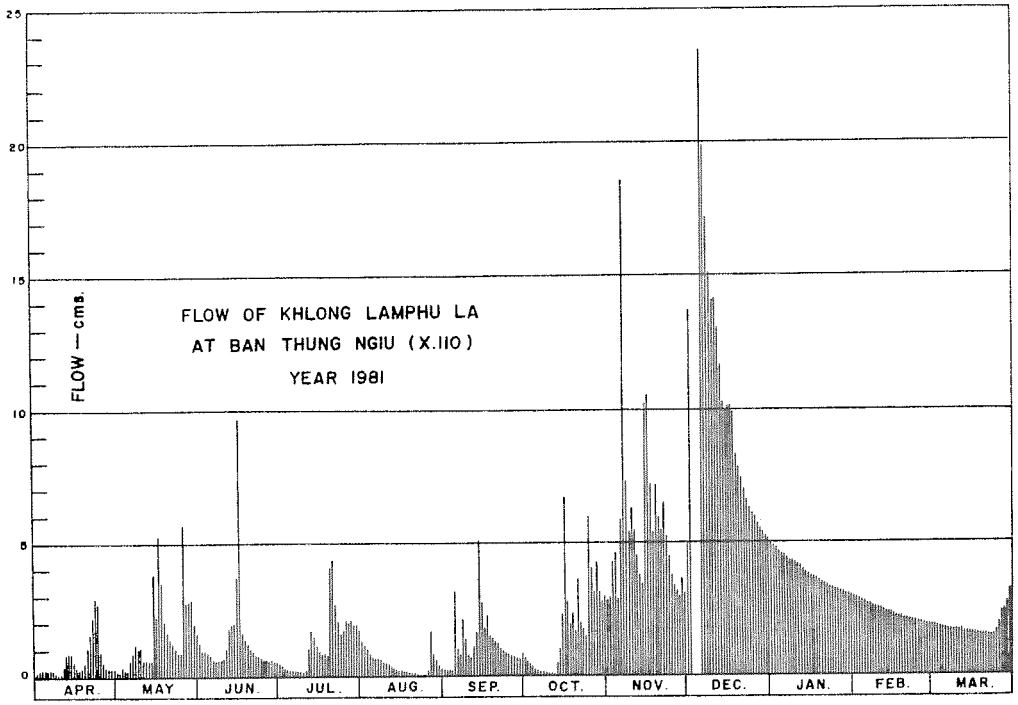
LOCATION — LAT. 7°-40'-24" N., LONG. 99°-35'-05" E., AT BAN THUNG NGIU, AMPHOE HUAI YOT, TRANG.

DRAINAGE AREA	229 SQ.KM.
TYPE OF GAGE	STAFF GAGE.
ZERO GAGE AT BOTTOM AT	+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, NO SHIFTING ADJUSTMENT FOR FLOW COMPUTATION.
OVERBANK FLOW CONDITIONS	NO OVERBANK FLOW.
GENERAL DESCRIPTION	RECORDS POOR. STAGE-DISCHARGE RELATION DEFINED BY 18 DISCHARGE MEASUREMENTS MADE IN 1981.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.51	0.54	0.74	0.58	0.73	0.54	0.62	0.96	1.26	1.29	0.98	0.83	
2	0.51	0.52	0.67	0.57	0.69	0.54	0.58	0.95	2.36	1.27	0.99	0.83	
3	0.54	0.55	0.66	0.56	0.69	0.54	0.57	1.17	4.37	1.26	0.99	0.82	
4	0.54	0.55	0.65	0.55	0.64	0.53	0.54	1.22	5.58	1.24	0.97	0.82	
5	0.54	0.53	0.63	0.54	0.63	1.00	0.53	0.97	4.27	1.22	0.97	0.82	
6	0.53	0.57	0.62	0.54	0.63	0.67	0.53	1.37	3.43	1.21	0.96	0.81	
7	0.53	0.66	0.61	0.54	0.63	0.63	0.53	2.89	2.98	1.20	0.96	0.81	
8	0.52	0.70	0.60	0.53	0.60	0.86	0.52	1.52	2.81	1.19	0.94	0.81	
9	0.50	0.69	0.60	0.53	0.58	0.72	0.52	1.33	2.50	1.18	0.93	0.80	
10	0.50	0.68	0.60	0.53	0.58	0.63	0.51	1.45	2.30	1.17	0.93	0.80	
11	0.53	0.61	0.66	0.53	0.57	0.61	0.51	1.32	2.40	1.15	0.93	0.80	
12	0.63	0.60	0.81	0.65	0.56	0.69	0.51	1.23	2.25	1.14	0.91	0.79	
13	0.64	0.59	0.83	0.81	0.55	0.82	0.51	1.08	2.09	1.13	0.91	0.79	
14	0.67	0.58	0.83	0.74	0.54	1.29	0.63	1.05	1.95	1.13	0.92	0.78	
15	0.62	1.10	1.03	0.70	0.53	1.02	0.74	2.07	1.91	1.12	0.90	0.78	
16	0.55	0.87	1.88	0.65	0.53	0.81	1.51	2.11	1.93	1.11	0.89	0.78	
17	0.54	1.30	0.79	0.65	0.53	0.88	0.99	1.59	1.93	1.09	0.90	0.78	
18	0.56	1.14	0.74	0.64	0.53	0.77	0.82	1.34	1.79	1.09	0.88	0.77	
19	0.58	0.87	0.71	0.63	0.53	0.73	0.91	1.56	1.70	1.08	0.88	0.77	
20	0.66	0.79	0.67	1.14	0.52	0.73	0.79	1.46	1.63	1.06	0.87	0.77	
21	0.80	0.76	0.65	1.17	0.52	0.72	1.09	1.33	1.58	1.06	0.87	0.76	
22	0.87	0.71	0.63	0.99	0.52	0.69	0.84	1.47	1.53	1.05	0.86	0.76	
23	0.97	0.68	0.62	0.84	0.52	0.66	0.79	1.32	1.49	1.03	0.85	0.75	
24	0.95	0.66	0.61	0.78	0.51	0.64	0.75	1.21	1.45	1.03	0.85	0.75	
25	0.66	0.64	0.61	0.79	0.51	0.63	1.40	1.14	1.43	1.02	0.85	0.77	
26	0.61	1.38	0.60	0.86	0.51	0.63	1.11	1.06	1.42	1.02	0.84	0.86	
27	0.56	0.95	0.60	0.84	0.77	0.62	1.01	1.02	1.38	1.01	0.84	0.90	
28	0.55	0.96	0.60	0.85	0.64	0.62	1.18	0.99	1.35	1.01	0.84	0.89	
29	0.55	0.96	0.59	0.82	0.61	0.60	1.03	1.09	1.33	1.00		0.95	
30	0.55	0.83	0.59	0.82	0.58	0.64	0.96	1.00	1.32	1.00		1.01	
31		0.78		0.82	0.55		0.99		1.30	1.00		1.01	
MEAN	0.61	0.77	0.71	0.72	0.58	0.72	0.79	1.34	2.16	1.11	0.91	0.82	
MAX	0.97	1.38	1.88	1.17	0.77	1.29	1.51	2.89	5.58	1.29	0.99	1.01	5.58
MIN	0.50	0.52	0.59	0.53	0.51	0.53	0.51	0.95	1.26	1.00	0.84	0.75	0.50

ANNUAL MAX MOMENTARY GAGE HEIGHT 6.63 M (A.D), AT 21.00 HOURS, ON DEC 3, 1981
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, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.24	1.44	0.48	1.38	0.24	0.72	2.82	4.92	5.13	2.96	1.98	
2	0.06	0.12	1.02	0.42	1.14	0.24	0.48	2.75	13.74	4.99	3.03	1.98	
3	0.24	0.30	0.96	0.36	1.14	0.24	0.42	4.29	*******	4.92	3.03	1.92	
4	0.24	0.30	0.90	0.30	0.84	0.18	0.24	4.64	*******	4.78	2.89	1.92	
5	0.24	0.18	0.78	0.24	0.78	3.10	0.18	2.89	*******	4.64	2.89	1.92	
6	0.18	0.42	0.72	0.24	0.78	1.02	0.18	5.69	23.40	4.57	2.82	1.86	
7	0.18	0.96	0.66	0.24	0.78	0.78	0.18	18.51	19.32	4.50	2.82	1.86	
8	0.12	1.20	0.60	0.18	0.60	2.16	0.12	6.86	17.79	4.43	2.68	1.86	
9	0.00	1.14	0.60	0.18	0.48	1.32	0.12	5.41	15.00	4.36	2.61	1.80	
10	0.00	1.08	0.60	0.18	0.48	0.78	0.06	6.30	13.20	4.29	2.61	1.80	
11	0.18	0.66	0.96	0.18	0.42	0.66	0.06	5.34	14.10	4.15	2.61	1.80	
12	0.78	0.60	1.86	0.90	0.36	1.14	0.06	4.71	12.75	4.08	2.47	1.74	
13	0.84	0.54	1.98	1.86	0.30	1.92	0.06	3.66	11.42	4.01	2.47	1.74	
14	1.02	0.48	1.98	1.44	0.24	5.13	0.78	3.45	10.30	4.01	2.54	1.68	
15	0.72	3.80	3.31	1.20	0.18	3.24	1.44	11.26	9.98	3.94	2.40	1.68	
16	0.30	2.22	9.74	0.90	0.18	1.86	6.78	11.58	10.14	3.87	2.34	1.68	
17	0.24	5.20	1.74	0.90	0.18	2.28	3.03	7.42	10.14	3.73	2.40	1.68	
18	0.36	4.08	1.44	0.84	0.18	1.62	1.92	5.48	9.02	3.73	2.28	1.62	
19	0.48	2.22	1.26	0.78	0.18	1.38	2.47	7.18	8.30	3.66	2.28	1.62	
20	0.96	1.74	1.02	4.08	0.12	1.38	1.74	6.38	7.74	3.52	2.22	1.62	
21	1.80	1.56	0.90	4.29	0.12	1.32	3.73	5.41	7.34	3.52	2.22	1.56	
22	2.22	1.26	0.78	3.03	0.12	1.14	2.04	6.46	6.94	3.45	2.16	1.56	
23	2.89	1.08	0.72	2.04	0.12	0.96	1.74	5.34	6.62	3.31	2.10	1.50	
24	2.75	0.96	0.66	1.68	0.06	0.84	1.50	4.57	6.30	3.31	2.10	1.50	
25	0.96	0.84	0.66	1.74	0.06	0.78	5.90	4.08	6.14	3.24	2.10	1.62	
26	0.66	5.76	0.60	2.16	0.06	0.78	3.87	3.52	6.06	3.24	2.04	2.16	
27	0.36	2.75	0.60	2.04	1.62	0.72	3.17	3.24	5.76	3.17	2.04	2.40	
28	0.30	2.82	0.60	2.10	0.84	0.72	4.36	3.03	5.55	3.17	2.04	2.34	
29	0.30	2.82	0.54	1.92	0.66	0.60	3.31	3.73	5.41	3.10		2.75	
30	0.30	1.98	0.54	1.92	0.48	0.84	2.82	3.10	5.34	3.10		3.17	
31		1.68		1.92	0.30		3.03		5.20	3.10		3.17	
TOTAL	19.74	50.99	40.17	40.74	15.18	39.37	56.51	169.10	*******	121.02	69.15	59.49	******** CMSDAY
MEAN	0.66	1.64	1.34	1.31	0.49	1.31	1.82	5.64	*******	3.90	2.47	1.92	******* CMS
MAX	2.89	5.76	9.74	4.29	1.62	5.13	6.78	18.51	23.40	5.13	3.03	3.17	23.40 CMS
MIN	0.00	0.12	0.54	0.18	0.06	0.18	0.06	2.75	*******	3.10	2.04	1.50	******* CMS
RUNOFF	1.706	4.406	3.471	3.520	1.312	3.402	4.882	14.610	*******	10.456	5.975	5.140	******** MCM

MOMENTARY PEAK ******** CMS, AT 6.63 M (A.D), AT 21.00 HOURS, ON DEC 3, 1981

RUNOFF YIELD ********* LITERS/SECOND/SQUARE KM, MOMENTARY PEAK YIELD ********* 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 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN THA SALA, CHOM THONG, CHIANG MAI, P.19A
STREAM - PING
RIVER - PING
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.47061
QS = 1.2177 QW

WATER YEAR = 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.0	0.6	190.9	148.4	395.1	974.1	4237.8	605.8	350.4	92.5	47.1	10.4	
2	2.0	0.1	172.3	96.8	328.7	952.8	3574.1	549.2	339.5	84.0	34.9	9.4	
3	1.2	0.0	210.2	88.2	309.5	931.7	2640.9	494.4	350.4	71.8	30.8	9.4	
4	0.9	0.1	254.4	84.0	290.8	1104.5	3996.4	467.7	350.4	68.6	28.8	9.4	
5	0.9	0.6	254.4	84.0	254.4	1104.5	7575.9	406.6	350.4	62.2	25.0	9.4	
6	0.9	0.6	395.1	88.2	245.5	1240.0	9173.0	406.6	328.7	59.0	25.0	9.4	
7	0.9	0.3	467.7	79.9	230.0	1715.3	11182.4	395.1	300.1	59.0	23.1	9.4	
8	0.9	0.3	467.7	68.6	350.4	2986.6	11268.8	406.6	281.5	56.0	20.0	9.4	
9	0.6	0.3	441.5	75.8	1500.9	4533.2	10084.6	383.8	281.5	50.0	18.7	10.4	
10	0.3	0.3	372.5	84.0	3482.0	4434.0	10245.6	350.4	272.4	41.4	18.7	10.4	
11	0.3	0.6	319.1	68.6	3065.5	3391.2	11355.5	339.5	290.8	39.2	17.4	10.4	
12	0.1	0.3	272.4	79.9	1862.9	2418.1	11442.3	328.7	281.5	39.2	17.4	9.4	
13	0.1	0.1	577.3	223.3	1309.6	1744.5	10084.6	328.7	263.3	41.4	16.2	9.4	
14	0.9	0.0	2986.6	319.1	1104.5	1380.5	7019.5	339.5	230.0	37.1	14.9	9.4	
15	0.9	0.0	5293.2	203.7	872.5	1216.9	4733.6	350.4	223.3	34.9	13.8	9.4	
16	0.6	0.0	5938.0	148.4	724.2	1060.3	3305.4	350.4	223.3	34.9	14.9	9.4	
17	0.3	0.0	4895.9	110.2	649.4	1309.6	2381.5	361.4	230.0	34.9	14.9	9.4	
18	0.3	0.0	3759.8	114.7	605.8	1773.9	1833.0	339.5	245.5	32.9	16.2	9.4	
19	0.3	0.0	2491.4	114.7	591.5	1500.9	1452.5	339.5	223.3	32.9	13.8	9.4	
20	0.6	0.0	1686.0	101.2	605.8	1171.7	1240.0	350.4	210.2	32.9	12.6	9.4	
21	0.3	2.0	1686.0	96.8	778.8	910.9	1126.8	361.4	190.9	32.9	12.6	8.7	
22	0.3	110.2	1500.9	120.2	1333.0	815.9	1194.1	383.8	178.4	34.9	12.6	8.7	
23	0.1	395.1	1263.1	154.2	1525.6	1082.3	1104.5	383.8	178.4	50.0	11.5	9.4	
24	0.0	709.0	995.5	154.2	1575.0	1149.1	995.5	361.4	172.3	71.8	12.6	9.4	
25	0.0	2107.5	797.2	142.6	1404.3	872.5	891.7	383.8	160.2	88.2	12.6	9.4	
26	0.0	2345.2	591.5	131.2	1149.1	742.2	778.8	372.5	142.6	96.8	11.5	8.7	
27	0.6	1953.6	361.4	120.2	974.1	853.5	694.0	406.6	136.9	105.7	11.5	8.7	
28	0.9	1171.7	236.7	110.2	952.8	1984.1	664.2	395.1	114.7	88.2	10.4	8.7	
29	0.9	605.8	184.6	216.7	995.5	3265.0	679.0	395.1	101.2	75.8	10.4	8.7	
30	0.9	339.5	160.2	467.7	815.9	5642.4	664.2	361.4	101.2	62.2		8.7	
31		223.3		494.4	760.4		620.2		101.2	50.0		8.7	
TOTAL	19.0	9967.1	39223.4	4590.1	31043.4	54262.1	138240.2	11699.0	7204.4	1761.3	529.9	289.8	298829.9 TONDAY
MEAN	0.6	321.5	1307.4	148.0	1001.4	1808.7	4459.3	389.9	232.4	56.8	18.2	9.3	
MAX	2.0	2345.2	5938.0	494.4	3482.0	5642.4	11442.3	605.8	350.4	105.7	47.1	10.4	11442.3
MIN	0.0	0.0	160.2	68.6	230.0	742.2	620.2	328.7	101.2	32.9	10.4	8.7	0.0

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN THA SALA, CHOM THONG, CHIANG MAI, P.19A
STREAM - PING
RIVER - PING
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW
1.47061
QS = 1.2177 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.4	0.6	539.1	738.1	5330.1	1961.2	2241.2	672.3	395.1	157.2	56.0	16.6	
2	4.4	0.6	395.1	577.3	4683.2	5445.5	2733.5	672.3	395.1	152.5	52.6	15.3	
3	3.9	0.4	297.0	406.6	3713.3	10420.2	4987.9	721.4	406.6	147.9	49.4	15.3	
4	3.4	0.4	361.4	256.3	2467.0	11536.1	11188.7	788.7	372.5	134.4	52.6	13.0	
5	3.4	0.4	395.1	176.2	1603.5	1136.3	15019.3	754.8	350.4	121.3	49.4	13.0	
6	3.9	1.0	418.1	147.9	1095.0	1178.1	10251.8	704.9	350.4	117.1	49.4	12.2	
7	3.9	1.2	339.5	147.9	788.7	1284.6	6769.1	564.5	313.8	104.5	43.1	12.2	
8	3.9	1.2	288.7	143.4	608.4	1729.9	6096.0	672.3	297.0	96.5	46.2	14.1	
9	3.9	1.2	240.6	138.9	489.5	2532.8	6583.3	1136.3	288.7	92.5	46.2	12.2	
10	3.4	1.0	217.7	138.9	429.8	2809.8	4532.9	1553.8	305.3	88.6	46.2	12.2	
11	3.4	1.0	195.4	125.6	330.8	17000.5	3004.2	1578.6	305.3	84.7	46.2	11.5	
12	2.9	0.9	176.2	104.5	280.5	15948.4	2699.7	1483.7	305.3	84.7	37.1	11.5	
13	2.9	0.9	195.4	96.5	248.4	14410.2	2565.9	1394.1	624.2	80.9	34.2	10.8	
14	2.9	0.9	418.1	92.5	210.2	11536.1	2305.0	1157.2	2771.7	80.9	31.3	14.1	
15	2.9	0.7	383.8	92.5	176.2	8398.4	1961.2	1001.6	2434.3	80.9	25.9	14.1	
16	2.9	0.7	395.1	108.7	176.2	6216.7	1729.9	857.9	2401.6	77.2	24.5	14.1	
17	2.9	0.6	406.6	117.1	256.3	5797.2	1900.6	721.4	1628.3	77.2	23.1	14.1	
18	2.4	0.4	577.3	117.1	514.1	6769.1	1930.8	754.8	1136.3	73.5	21.7	13.0	
19	2.4	0.3	608.4	112.8	1020.1	7019.5	1729.9	754.8	840.4	73.5	23.1	12.2	
20	2.4	1.2	564.5	108.7	1810.7	6399.2	2146.5	721.4	656.1	73.5	24.5	12.2	
21	2.0	8.0	910.9	112.8	3404.8	5445.5	2632.6	656.1	514.1	77.2	24.5	12.2	
22	2.0	14.1	297.0	121.3	3666.4	4987.9	2599.0	592.8	429.8	77.2	24.5	11.5	
23	1.2	80.9	539.1	195.4	2733.5	4189.0	1900.6	564.5	372.5	77.2	23.1	12.2	
24	0.7	738.1	489.5	1394.1	2369.2	4044.5	1483.7	539.1	313.8	73.5	23.1	12.2	
25	0.6	1076.1	240.6	1704.4	2532.8	3486.8	1241.7	577.3	280.5	69.9	21.7	12.2	
26	0.4	1284.6	112.8	1755.5	3162.5	3122.5	1220.4	592.8	256.3	66.3	20.4	12.2	
27	0.6	1461.1	117.1	3853.9	3404.8	2599.0	1136.3	551.8	232.9	62.8	19.1	11.5	
28	0.6	2305.0	195.4	5215.2	2887.2	2434.3	946.9	514.1	217.7	62.8	16.6	12.2	
29	0.7	1372.0	121.3	6831.7	2053.2	2273.0	805.8	477.4	195.4	59.3		10.8	
30	0.6	1038.7	52.6	6769.1	1416.3	2305.0	928.9	418.1	181.1	59.3		10.8	
31		721.4		6645.1	1199.3		704.9		166.6	56.0		10.8	
TOTAL	75.9	10115.6	10489.3	38545.9	55061.9	174417.1	107978.0	24150.7	19739.0	2741.0	955.7	392.3	444662.6 TONDAY
MEAN	2.5	326.3	349.6	1243.4	1776.1	5813.9	3483.1	805.0	636.7	88.4	34.1	12.6	
MAX	4.4	2305.0	910.9	6831.7	5330.1	17000.5	15019.3	1578.6	2771.7	157.2	56.0	16.6	17000.5
MIN	0.4	0.3	52.6	92.5	176.2	1136.3	704.9	418.1	166.6	56.0	16.6	10.8	0.3

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN THA SALA, CHOM THONG, CHIANG MAI, P.19A
STREAM - PING
RIVER - PING
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 1
1.47061
QS = 1.2177 QW

WATER YEAR = 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	14.5	9.0	1532.5	254.4	5246.2	1274.7	1296.3	905.0	1483.5	418.1	132.0	33.9	
2	14.5	8.0	1459.4	208.3	6797.4	2281.0	1126.8	869.4	1339.7	395.1	127.2	33.9	
3	13.4	8.0	2006.8	195.4	8325.5	5039.0	1013.9	834.5	1189.3	395.1	127.2	33.9	
4	13.4	9.0	1864.8	164.5	9042.4	5351.1	905.0	782.9	1107.7	395.1	127.2	31.8	
5	13.4	136.9	1459.4	136.9	8801.1	5142.3	940.9	724.2	1069.9	343.8	136.9	31.8	
6	13.4	238.6	1126.8	152.5	8025.4	4936.4	1051.1	724.2	1013.9	278.5	132.0	31.8	
7	12.2	176.6	905.0	501.8	8025.4	5615.2	977.2	751.9	940.9	238.6	127.2	29.8	
8	11.1	108.7	683.1	2870.0	8641.4	7458.6	887.2	834.5	922.9	238.6	113.2	29.8	
9	10.0	86.8	765.9	5775.7	8641.4	9042.4	940.9	1253.2	851.9	238.6	113.2	29.8	
10	9.0	74.5	977.2	6155.9	7882.2	10531.1	1168.4	2154.2	800.1	231.0	117.8	27.8	
11	9.0	59.0	1126.8	4237.6	6927.8	11388.9	1836.7	2833.5	782.9	238.6	113.2	27.8	
12	8.0	51.7	922.9	2653.5	8641.4	10362.1	2547.1	2377.5	765.9	246.5	99.7	25.9	
13	9.0	42.5	800.1	1810.7	10026.8	7953.8	2093.9	1921.4	765.9	246.5	82.6	25.9	
14	10.0	33.9	683.1	1126.8	10700.6	5829.6	1759.2	1733.4	851.9	231.0	78.5	25.9	
15	10.0	31.8	642.7	737.9	10700.6	4044.5	1733.4	1707.8	1210.6	215.8	74.5	25.9	
16	12.2	29.8	616.3	564.5	8961.9	2870.0	1557.2	2249.1	1253.2	208.3	70.5	27.8	
17	13.4	29.8	526.6	564.5	6219.1	2064.8	1759.2	4834.5	1210.6	201.8	62.8	27.8	
18	15.7	33.9	526.6	958.8	4092.6	1784.8	2582.5	6797.4	1051.1	201.8	59.0	24.0	
19	14.5	47.1	751.9	1631.9	2980.2	1582.1	3760.0	8721.3	940.9	208.3	59.0	22.2	
20	14.5	86.8	696.7	1507.9	3300.7	1483.5	3527.8	9694.8	851.9	208.3	59.0	22.2	
21	11.1	164.5	551.8	1892.9	4433.8	2006.8	2980.2	7882.2	817.3	208.3	54.1	24.0	
22	11.1	246.5	526.6	4783.8	5298.7	2154.2	2617.9	5775.7	800.1	208.3	51.7	24.0	
23	11.1	800.1	514.1	6474.0	5090.6	2035.6	2154.2	4335.6	782.9	201.8	47.1	20.4	
24	11.1	2617.9	501.8	6219.1	4783.8	1864.8	1892.9	3300.7	765.9	189.1	44.8	20.4	
25	11.1	2653.5	441.5	4936.4	4286.6	1892.9	1733.4	2653.5	656.0	182.8	40.3	18.7	
26	12.2	3300.7	334.1	4140.6	3436.6	1921.4	1657.1	2185.6	551.8	195.4	38.1	20.4	
27	14.5	3901.2	286.6	3666.7	2477.3	1949.6	1532.5	1836.7	526.6	195.4	36.0	18.7	
28	12.2	3129.3	353.7	3091.8	1864.8	1707.8	1631.9	1733.4	501.8	176.6	33.9	15.7	
29	11.1	2547.1	373.7	3255.8	1557.2	1459.4	1459.4	1707.8	489.5	158.5		15.7	
30	9.0	2064.8	314.8	3666.7	1459.4	1459.4	1274.7	1582.1	441.5	146.7		15.7	
31		1921.4		4092.6	1317.8		1013.9		429.8	141.8		15.7	
TOTAL	355.7	24649.3	24273.2	78429.8	187986.4	124487.6	53412.7	85697.9	27167.8	7384.0	2358.7	779.1	616982.2 TONDAY
MEAN	11.8	795.1	809.1	2529.9	6064.0	4149.5	1722.9	2856.6	876.3	238.2	84.2	25.1	
MAX	15.7	3901.2	2006.8	6474.0	10700.6	11388.9	3760.0	9694.8	1483.5	418.1	136.9	33.9	11388.9
MIN	8.0	8.0	286.6	136.9	1317.8	1274.7	887.2	724.2	429.8	141.8	33.9	15.7	8.0

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN PHA TAEK, DOI SAKET, CHIANG MAI, P.34
STREAM - MAE KUANG
RIVER - MAE KUANG
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.92550
QS = 0.9908 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.8	3.6	14.3	3.1	22.0	49.2	73.3	14.3	5.3	1.0	6.0	0.2	
2	0.6	2.2	6.7	3.1	26.4	37.0	58.3	14.3	5.3	1.0	5.3	0.2	
3	0.6	3.1	6.0	2.2	37.0	63.1	1409.3	12.6	4.7	0.8	4.7	0.2	
4	1.6	3.6	22.0	7.4	26.4	58.3	258.9	12.6	4.7	0.8	4.1	0.2	
5	1.6	1.9	19.9	5.3	44.9	49.2	690.0	11.1	4.7	0.8	3.6	0.2	
6	1.6	1.2	218.9	4.1	108.3	476.1	332.5	8.2	4.7	0.6	3.1	0.2	
7	1.6	0.8	53.7	2.2	84.3	121.4	218.9	8.2	3.6	0.6	2.6	0.2	
8	1.6	0.4	44.9	3.6	231.9	245.2	138.3	8.2	3.6	0.6	2.2	0.2	
9	1.6	0.2	29.7	3.1	194.1	90.0	114.8	8.2	3.6	2.6	2.2	0.2	
10	1.4	2.6	24.1	2.2	114.8	68.1	272.9	7.4	3.1	6.7	2.2	0.2	
11	1.2	16.1	16.1	1.6	84.3	58.3	121.4	7.4	3.1	6.7	1.9	0.2	
12	1.0	7.4	53.7	40.9	73.3	44.9	90.0	6.7	3.1	6.7	1.9	0.2	
13	1.0	4.7	114.8	29.7	73.3	40.9	73.3	6.7	3.1	6.7	1.9	0.2	
14	1.0	4.1	114.8	14.3	58.3	68.1	58.3	6.7	2.6	6.7	1.6	0.2	
15	3.6	3.1	95.9	8.2	49.2	68.1	53.7	6.7	2.6	6.7	1.4	0.2	
16	3.6	3.1	84.3	5.3	44.9	58.3	49.2	6.7	2.2	6.7	1.2	0.2	
17	3.1	2.2	258.9	4.7	44.9	148.8	44.9	6.7	2.2	6.7	1.0	0.2	
18	2.2	1.9	63.1	6.0	44.9	102.0	40.9	6.7	2.2	6.7	0.8	0.2	
19	2.2	33.2	37.0	19.9	40.9	73.3	37.0	6.7	2.2	6.7	0.6	0.2	
20	1.9	218.9	26.4	9.6	44.9	63.1	33.2	6.7	2.2	6.7	0.5	0.2	
21	1.0	380.9	22.0	5.3	90.0	58.3	29.7	6.7	2.2	6.7	0.4	0.2	
22	1.4	73.3	44.9	26.4	121.4	49.2	26.4	6.7	1.9	6.7	0.3	0.2	
23	1.4	95.9	19.9	63.1	95.9	44.9	26.4	6.7	1.9	6.7	0.3	0.2	
24	1.4	272.9	12.6	49.2	73.3	33.2	24.1	6.7	1.6	6.7	0.3	0.2	
25	1.4	78.7	8.2	33.2	78.7	29.7	22.0	6.7	1.6	6.7	0.3	0.2	
26	1.4	138.3	5.3	114.8	58.3	29.7	22.0	6.7	1.6	6.7	0.2	0.2	
27	1.9	44.9	3.6	40.9	58.3	49.2	19.9	6.7	1.6	6.7	0.2	0.2	
28	16.1	33.2	3.1	26.4	44.9	44.9	19.9	6.7	1.4	6.7	0.2	0.2	
29	8.2	17.9	4.7	37.0	37.0	49.2	17.9	6.7	1.4	6.7	0.2	0.2	
30	4.1	14.3	4.1	19.9	44.9	90.0	17.9	6.0	1.4	6.7		0.2	
31		9.6		16.1	68.1		16.1		1.2	6.7		0.2	
TOTAL	72.1	1474.2	1433.6	608.8	2219.8	2461.7	4411.3	239.1	86.6	156.2	51.2	6.2	13220.8 TONDAY
MEAN	2.4	47.5	47.7	19.6	71.6	82.0	142.3	7.9	2.7	5.0	1.7	0.2	
MAX	16.1	380.9	258.9	114.8	231.9	476.1	1409.3	14.3	5.3	6.7	6.0	0.2	1409.3
MIN	0.6	0.2	3.1	1.6	22.0	29.7	16.1	6.0	1.2	0.6	0.2	0.2	0.2

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-160200

STATION - BAN PHA TAEK, DOI SAKET, CHIANG MAI, P.34
STREAM - MAE KUANG
RIVER - MAE KUANG
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMEN
THAILAND
HYDROLOGY DIVISION
1.92550
QS = 0.9908 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.2	0.2	0.2	2.4	95.1	627.1	33.2	10.5	5.3	1.4	2.4	0.6	
2	0.2	0.0	0.2	2.4	95.1	406.3	30.2	13.0	4.5	1.0	2.4	0.6	
3	0.2	0.0	0.3	3.1	33.2	272.9	27.3	13.0	3.8	1.0	2.4	0.6	
4	0.2	0.0	8.2	1.4	20.3	218.9	24.6	9.3	3.1	1.0	2.4	0.8	
5	0.2	0.0	1.0	0.8	11.7	194.1	18.7	8.2	3.1	0.9	1.4	0.6	
6	0.2	0.2	0.6	1.0	10.5	194.1	20.3	7.2	2.4	0.8	1.4	0.7	
7	0.2	0.2	0.4	2.4	11.7	985.9	15.7	6.2	2.4	0.8	1.9	0.7	
8	0.9	0.1	0.3	1.0	7.2	918.6	18.7	8.2	2.4	1.0	1.9	0.3	
9	0.5	0.0	0.2	0.6	3.8	272.9	15.7	36.4	1.9	1.4	2.4	0.1	
10	0.4	0.0	0.2	0.6	2.4	245.2	13.0	15.7	2.4	1.4	2.4	0.1	
11	0.4	0.0	0.2	0.6	1.9	387.6	14.3	10.5	1.9	1.4	3.1	0.1	
12	0.3	0.0	0.1	0.5	46.7	173.0	24.6	9.3	2.4	1.4	3.1	0.4	
13	0.3	0.0	0.8	0.5	11.7	122.4	24.6	8.2	58.3	1.9	3.8	0.4	
14	0.3	0.0	0.4	3.8	14.3	95.1	24.6	7.2	22.0	1.9	3.8	0.4	
15	0.2	0.0	4.5	20.3	553.1	146.6	24.6	6.2	9.3	1.9	3.1	0.3	
16	0.2	0.0	24.6	8.2	43.2	146.6	58.3	5.3	6.2	3.1	1.9	0.2	
17	3.1	0.0	15.7	2.4	302.0	425.5	33.2	4.5	4.5	7.2	1.0	0.1	
18	2.4	0.0	3.1	1.9	71.1	245.2	24.6	4.5	3.8	6.2	1.0	0.4	
19	0.7	0.0	3.8	0.9	652.8	164.0	46.7	5.3	3.1	5.3	1.0	0.4	
20	0.6	0.2	66.7	1.4	317.1	114.8	164.0	4.5	2.4	5.3	0.9	0.4	
21	0.5	1.9	46.7	80.3	231.9	85.1	164.0	4.5	2.4	3.8	0.9	0.4	
22	0.4	0.8	17.2	985.9	90.0	138.3	71.1	4.5	1.9	3.8	1.0	0.4	
23	0.3	0.8	90.0	245.2	46.7	138.3	39.7	4.5	1.9	3.8	0.8	0.4	
24	0.2	1.9	95.1	95.1	75.6	100.3	27.3	5.3	1.9	3.8	0.8	0.3	
25	0.1	0.9	18.7	369.4	231.9	75.6	22.0	4.5	1.4	3.1	0.6	0.3	
26	0.1	1.4	18.7	1421.9	194.1	62.4	18.7	4.5	1.4	3.1	0.6	0.3	
27	0.0	0.7	406.3	287.3	107.4	95.1	15.7	66.7	1.4	3.8	0.6	0.1	
28	0.0	1.9	36.4	130.3	58.3	80.3	11.7	13.0	1.0	3.8	0.6	0.1	
29	0.0	0.8	11.7	130.3	33.2	50.5	10.5	8.2	1.0	3.8		0.0	
30	0.0	0.8	4.5	107.4	46.7	50.5	9.3	6.2	1.0	3.8		0.0	
31		0.7		46.7	1616.2		13.0		1.4	3.1		0.0	
TOTAL	13.3	13.5	876.8	3956.0	5036.9	7233.1	1059.9	315.1	161.9	86.0	49.6	10.5	18812.6 TONDA
MEAN	0.4	0.4	29.2	127.6	162.4	241.1	34.1	10.5	5.2	2.7	1.7	0.3	
MAX	3.1	1.9	406.3	1421.9	1616.2	985.9	164.0	66.7	58.3	7.2	3.8	0.8	1616.2
MIN	0.0	0.0	0.1	0.5	1.9	50.5	9.3	4.5	1.0	0.8	0.6	0.0	0.0

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN PHA TAEK, DOI SAKET, CHIANG MAI, P.34
STREAM - MAE KUANG
RIVER - PING
RIVER SYSTEM - PING

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.92550
QS = 0.9908 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	0.1	0.4	0.7	565.1	648.4	35.3	39.7	13.6	4.5	1.0	1.9	
2	0.0	0.1	31.2	0.5	851.1	394.4	90.0	59.7	11.7	3.8	1.0	1.9	
3	0.0	0.0	31.2	0.3	422.0	196.5	35.3	49.2	11.7	3.8	1.0	2.4	
4	0.1	0.1	5.3	0.4	341.9	329.4	71.1	39.7	9.9	3.8	1.0	3.8	
5	0.0	39.7	142.5	0.5	545.1	186.9	39.7	31.2	9.9	3.8	1.0	3.8	
6	0.0	11.7	9.9	10147.5	510.0	367.7	28.3	28.3	7.2	3.8	1.0	3.8	
7	0.0	1.9	3.1	9047.4	525.5	494.8	22.8	25.5	6.2	3.1	1.0	3.1	
8	0.0	0.7	1.4	465.0	408.1	545.1	83.5	28.3	6.2	3.1	1.0	3.1	
9	0.0	0.5	1.9	216.4	293.1	367.7	168.4	39.7	5.3	3.1	1.0	2.4	
10	0.0	0.4	1.9	177.6	1347.5	216.4	77.2	31.2	5.3	2.4	1.0	1.0	
11	0.0	0.3	1.9	177.6	4187.2	168.4	83.5	31.2	5.3	2.4	1.0	0.8	
12	0.0	0.3	0.8	159.5	436.1	118.6	65.3	28.3	6.2	1.9	2.4	0.8	
13	0.0	0.2	0.6	111.1	247.9	90.0	49.2	22.8	5.3	1.9	3.8	0.8	
14	0.0	1.4	0.6	71.1	186.9	83.5	90.0	20.3	6.2	1.4	3.8	0.8	
15	0.2	2.4	0.5	59.7	150.9	65.3	65.3	31.2	15.7	1.4	3.8	0.8	
16	0.2	0.4	0.4	44.3	111.1	83.5	39.7	54.3	7.2	1.4	3.1	1.9	
17	0.3	0.3	0.3	49.2	96.8	83.5	196.5	96.8	5.3	2.4	3.1	3.8	
18	0.3	0.7	1.0	44.3	96.8	83.5	118.6	126.3	5.3	3.1	3.1	1.9	
19	0.2	0.7	1.9	49.2	159.5	54.3	159.5	77.2	5.3	2.4	3.1	1.9	
20	0.2	1.9	1.9	317.1	317.1	65.3	77.2	54.3	4.5	2.4	3.1	1.4	
21	0.1	0.7	0.7	911.0	150.9	54.3	54.3	44.3	4.5	1.9	2.4	1.4	
22	0.0	0.6	0.6	422.0	111.1	54.3	49.2	39.7	4.5	1.9	2.4	1.4	
23	0.0	5.3	0.4	206.3	118.6	49.2	77.2	28.3	4.5	1.9	2.4	1.4	
24	0.0	2.4	0.4	206.3	186.9	77.2	83.5	25.5	4.5	1.9	2.4	1.4	
25	0.0	5.3	0.7	281.5	118.6	83.5	111.1	22.8	4.5	1.9	1.9	1.0	
26	0.3	7.2	1.9	177.6	83.5	111.1	96.8	20.3	4.5	1.9	1.9	1.0	
27	20.3	28.3	2.4	206.3	59.7	83.5	77.2	17.9	4.5	1.4	1.9	1.0	
28	0.7	17.9	2.4	305.0	54.3	59.7	59.7	20.3	4.5	1.0	1.9	1.0	
29	0.3	5.3	1.9	422.0	49.2	77.2	49.2	17.9	4.5	1.0		1.0	
30	0.2	1.0	0.9	494.8	44.3	54.3	44.3	15.7	4.5	1.0		0.9	
31		0.6		1169.9	39.7		39.7		4.5	1.0		0.9	
TOTAL	23.4	138.4	251.0	25942.0	12816.4	5347.4	2338.6	1167.9	202.8	72.7	57.5	54.5	48412.7 TONDAY
MEAN	0.7	4.4	8.3	836.8	413.4	178.2	75.4	38.9	6.5	2.3	2.0	1.7	
MAX	20.3	39.7	142.5	10147.5	4187.2	648.4	196.5	126.3	15.7	4.5	3.8	3.8	10147.5
MIN	0.0	0.0	0.3	0.3	39.7	49.2	22.8	15.7	4.5	1.0	1.0	0.8	0.0

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-160200

STATION - BAN DON RABIANG, SI SATCHANALAI, SUKHOTHAI, Y.14
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.88889
QS = 0.2699 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.9	6.8	162.3	77.4	56.9	487.7	3055.0	34.3	10.9	3.4	1.6	0.5	
2	0.9	77.4	138.3	63.4	60.1	324.3	1990.8	32.6	10.9	3.4	1.6	0.5	
3	0.9	81.1	77.4	53.8	56.9	376.3	1036.6	29.3	10.9	3.4	1.6	0.4	
4	0.8	34.3	60.1	77.4	53.8	963.5	593.4	27.7	10.9	3.0	1.6	0.4	
5	0.8	30.9	63.4	181.4	56.9	1845.1	355.1	26.1	10.9	2.7	1.6	0.4	
6	0.7	73.8	84.9	162.3	60.1	5129.7	939.7	26.1	10.9	2.7	1.4	0.4	
7	0.7	73.8	144.2	127.0	110.9	9411.9	1618.1	23.1	10.9	2.7	1.4	0.4	
8	0.7	63.4	387.1	116.2	2337.5	8791.9	1527.6	21.7	10.1	2.7	1.2	0.4	
9	0.7	39.5	1498.0	105.8	10823.2	4467.4	1061.5	20.3	10.1	2.7	1.2	0.4	
10	0.7	30.9	646.0	88.7	17997.7	2458.8	628.2	19.0	10.1	2.4	1.0	0.3	
11	0.9	27.7	987.6	70.2	9517.2	2065.6	433.6	17.9	10.1	2.4	1.0	0.3	
12	0.7	266.7	1410.8	70.2	6659.9	1618.1	344.6	16.8	9.3	2.4	1.0	0.3	
13	0.7	355.1	4993.8	73.8	5198.3	3612.9	275.9	15.7	8.6	2.4	1.0	0.3	
14	0.9	181.4	16218.0	70.2	9623.0	3612.9	222.7	14.7	8.0	2.4	1.0	0.3	
15	0.8	84.9	15644.2	248.6	4859.6	2792.6	188.1	13.7	8.0	2.4	1.0	0.3	
16	0.8	50.8	8093.8	194.8	2499.9	3497.8	150.1	13.7	7.3	2.2	1.0	0.4	
17	0.8	34.3	8791.9	162.3	1711.0	2640.5	121.6	13.7	6.8	2.2	1.0	0.4	
18	0.8	32.6	4993.8	168.6	1382.3	1881.1	105.8	13.7	6.2	2.2	1.0	0.4	
19	0.9	127.0	2258.2	121.6	1112.2	1190.3	92.7	12.8	5.6	1.9	0.9	0.4	
20	0.9	144.2	1298.4	96.7	1138.0	876.8	77.4	12.8	5.1	1.9	0.9	0.6	
21	0.9	66.8	836.1	100.8	1138.0	700.6	63.4	11.8	4.6	1.9	0.9	2.2	
22	0.3	47.8	836.1	127.0	1326.1	576.4	56.9	11.8	4.6	1.9	0.8	1.6	
23	0.3	50.8	1270.9	105.8	1270.9	559.6	50.8	11.8	4.6	1.9	0.8	1.2	
24	0.8	127.0	963.5	70.2	963.5	515.9	47.8	11.8	4.2	1.9	0.8	0.9	
25	0.7	110.9	515.9	110.9	963.5	398.1	42.2	11.8	3.7	1.9	0.7	0.7	
26	1.2	181.4	314.3	376.3	816.0	355.1	36.8	10.9	3.4	1.9	0.7	0.7	
27	2.2	2028.0	215.6	188.1	700.6	576.4	34.3	10.9	3.4	1.6	0.7	0.5	
28	1.4	1326.1	162.3	110.9	897.6	2028.0	42.2	10.9	3.4	1.6	0.6	0.4	
29	1.2	530.3	127.0	88.7	1190.3	3908.3	47.8	10.9	3.4	1.6	0.6	0.4	
30	5.1	387.1	92.7	77.4	1086.8	4152.4	44.9	10.9	3.4	1.6		0.4	
31		285.3		63.4	719.2		39.5		3.4	1.6		0.4	
TOTAL	30.1	6958.1	73286.5	3749.9	86387.8	71815.9	15325.0	519.2	223.7	70.9	30.6	17.2	258414.9 TONS
MEAN	1.0	224.4	2442.8	120.9	2786.7	2393.8	494.3	17.3	7.2	2.2	1.0	0.5	
MAX	5.1	2028.0	16218.0	376.3	17997.7	9411.9	3055.0	34.3	10.9	3.4	1.6	2.2	17997.7
MIN	0.3	6.8	60.1	53.8	53.8	324.3	34.3	10.9	3.4	1.6	0.6	0.3	0.3

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN DON RABIANG, SI SATCHANALAI, SUKHOTHAI, Y.14
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.88889
QS = 0.2699 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	0.00	0.01	1.41	13.26	88.05	122.48	41.38	4.70	1.83	0.61	0.28	0.13		
2	0.00	0.01	1.36	7.30	72.61	1221.28	40.25	4.44	1.83	0.61	0.26	0.13		
3	0.00	0.01	1.88	3.20	70.88	1189.90	43.11	3.92	1.77	0.58	0.26	0.12		
4	0.00	0.01	0.97	1.99	44.28	861.16	49.11	3.43	1.72	0.56	0.24	0.12		
5	0.00	0.01	1.01	1.46	26.87	424.69	28.60	3.09	1.66	0.53	0.24	0.11		
6	0.00	0.01	39.13	1.14	15.88	702.15	20.45	2.87	1.56	0.51	0.24	0.11		
7	0.00	0.01	26.87	0.93	9.83	3374.71	16.86	2.73	1.46	0.48	0.23	0.10		
8	0.00	0.01	9.07	0.77	7.13	5429.71	19.34	2.73	1.41	0.46	0.23	0.10		
9	0.00	0.01	3.55	0.66	6.17	2023.66	20.83	16.18	1.36	0.46	0.23	0.10		
10	0.00	0.13	2.87	0.56	4.98	1003.99	20.83	10.22	1.27	0.44	0.23	0.10		
11	0.00	0.07	3.92	0.46	4.98	353.77	18.97	5.71	1.22	0.44	0.21	0.09		
12	0.00	0.02	4.17	0.39	5.56	282.84	15.28	4.44	1.22	0.42	0.21	0.09		
13	0.00	0.01	3.09	0.44	4.04	320.61	12.98	3.67	1.18	0.39	0.21	0.09		
14	0.23	0.01	2.98	0.44	2.87	214.34	11.64	3.20	1.14	0.39	0.21	0.09		
15	0.26	0.01	6.48	0.37	2.29	146.29	11.38	3.09	1.09	0.37	0.19	0.09		
16	0.16	0.01	6.48	0.37	1.94	149.06	12.71	2.87	1.05	0.37	0.19	0.09		
17	0.12	0.01	5.56	0.39	2.29	128.89	38.02	2.73	1.32	0.37	0.18	0.09		
18	0.12	0.08	4.84	0.61	3.43	212.59	31.30	2.54	1.66	0.37	0.18	0.09		
19	0.10	0.16	9.64	0.39	8.70	217.86	25.60	2.54	1.56	0.37	0.18	0.08		
20	0.08	0.03	14.98	0.29	10.02	251.96	35.33	2.41	1.36	0.35	0.18	0.08		
21	0.05	0.15	18.26	0.69	10.42	156.09	27.73	2.35	1.14	0.35	0.18	0.07		
22	0.05	0.26	31.30	4.84	16.18	113.14	24.37	2.11	1.05	0.35	0.16	0.06		
23	0.03	0.63	32.73	15.57	23.56	95.81	18.61	1.99	0.93	0.35	0.15	0.06		
24	0.02	0.35	29.93	14.69	23.96	82.44	15.57	1.94	0.85	0.33	0.15	0.06		
25	0.02	0.74	18.61	19.71	25.60	82.44	12.17	1.94	0.77	0.33	0.14	0.06		
26	0.01	0.61	11.90	20.45	120.11	59.36	10.02	1.94	0.77	0.33	0.14	0.06		
27	0.06	0.77	10.22	209.11	297.82	51.61	9.44	1.94	0.74	0.31	0.13	0.06		
28	0.02	0.89	9.83	280.73	99.80	61.75	7.98	1.88	0.72	0.31	0.13	0.06		
29	0.01	0.58	10.42	325.61	49.73	64.18	6.17	1.88	0.72	0.29		0.05		
30	0.01	0.35	14.69	377.63	29.93	51.61	5.27	1.83	0.69	0.29		0.05		
31		0.89		157.51	24.77		4.98		0.66	0.28		0.05		
TOTAL	1.35	6.85	338.15	1461.96	1114.68	19450.34	656.28	107.31	37.71	12.60	5.56	2.64	23195.41	100-TD
MEAN	0.04	0.22	11.27	47.16	35.96	648.34	21.17	3.58	1.22	0.41	0.20	0.09		
MAX	0.26	0.89	39.13	377.63	297.82	5429.71	49.11	16.18	1.83	0.61	0.28	0.13	5429.71	
MIN	0.00	0.01	0.97	0.29	1.94	51.61	4.98	1.83	0.66	0.28	0.13	0.05	0.00	

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN DON RABIANG, SI SATCHANALAI, SUKHOTHAI, Y.14
STREAM - YOM
RIVER - YOM
RIVER SYSTEM - YOM

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.88889
QS = 0.2699 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.06	0.43	21.77	3.89	459.18	18.71	7.09	9.30	3.78	0.67	0.22	0.08	
2	0.05	0.27	33.76	2.71	407.93	20.38	7.77	7.94	3.46	0.67	0.22	0.08	
3	0.05	0.18	30.47	1.90	221.30	413.81	9.73	7.26	3.06	0.65	0.21	0.07	
4	0.05	0.13	22.47	1.36	153.61	225.30	9.73	6.28	2.79	0.62	0.19	0.07	
5	0.06	0.11	16.18	1.14	140.40	120.27	11.90	6.60	2.63	0.59	0.18	0.07	
6	0.06	0.12	9.52	1.36	658.83	103.42	26.87	7.42	2.40	0.59	0.18	0.07	
7	0.05	0.29	6.60	235.43	1060.37	127.92	25.95	7.09	2.32	0.57	0.18	0.07	
8	0.06	0.27	4.81	1982.05	938.09	130.52	38.39	6.13	2.11	0.52	0.17	0.07	
9	0.07	2.63	3.46	2643.95	384.80	156.62	37.21	5.67	2.04	0.52	0.17	0.06	
10	0.07	1.52	2.47	642.83	200.44	103.42	49.16	5.23	1.90	0.50	0.17	0.06	
11	0.06	0.79	1.97	227.31	407.93	63.60	99.08	4.95	1.84	0.47	0.17	0.06	
12	0.05	0.70	2.25	514.36	845.36	44.58	239.54	4.81	1.64	0.47	0.15	0.06	
13	0.05	0.52	2.55	356.78	584.49	36.62	159.66	4.14	1.58	0.47	0.15	0.05	
14	0.05	0.88	3.67	137.54	319.24	34.32	74.60	4.54	1.52	0.45	0.15	0.05	
15	0.06	0.97	3.46	70.27	164.27	26.87	42.05	4.95	1.41	0.45	0.18	0.05	
16	0.06	0.57	2.47	47.83	105.63	18.06	31.55	5.52	1.36	0.43	0.17	0.05	
17	0.06	0.32	2.47	44.58	72.86	14.11	47.17	8.47	1.27	0.43	0.14	0.05	
18	0.05	0.29	3.06	45.86	53.42	13.26	117.77	16.80	1.18	0.41	0.11	0.04	
19	0.06	0.67	2.32	47.83	73.73	14.98	112.84	16.49	1.14	0.41	0.11	0.04	
20	0.09	3.57	5.52	173.67	87.58	14.11	137.54	110.41	1.09	0.38	0.11	0.04	
21	0.07	7.09	8.29	407.93	254.42	11.90	108.01	61.98	1.05	0.36	0.10	0.04	
22	0.07	4.40	7.26	569.38	193.31	10.17	66.06	28.88	0.94	0.34	0.10	0.04	
23	0.07	9.09	5.97	893.18	100.16	10.87	42.05	17.74	0.85	0.34	0.10	0.04	
24	0.06	143.29	5.09	365.08	68.58	15.28	36.04	12.44	0.85	0.32	0.08	0.04	
25	0.06	741.58	7.59	180.07	55.70	17.11	31.01	9.52	0.82	0.32	0.08	0.04	
26	0.05	396.28	13.26	437.73	74.60	14.98	26.41	7.59	0.82	0.30	0.08	0.04	
27	0.05	136.13	10.17	543.38	60.38	15.57	31.01	6.60	0.76	0.30	0.08	0.04	
28	0.06	58.01	7.77	277.23	45.22	12.44	24.14	5.82	0.70	0.29	0.08	0.03	
29	1.58	29.93	5.23	239.54	35.46	9.73	19.04	5.09	0.70	0.27		0.03	
30	0.57	23.70	4.54	184.95	33.76	7.94	15.57	4.27	0.67	0.25		0.03	
31		21.77		245.77	25.49		11.64		0.67	0.23		0.03	
TOTAL	3.81	1586.50	256.42	11526.87	8286.53	1826.87	1696.58	409.93	49.35	13.59	4.03	1.59	25662.05 100-TD
MEAN	0.13	51.18	8.55	371.83	267.31	60.90	54.73	13.66	1.59	0.44	0.14	0.05	
MAX	1.58	741.58	33.76	2643.95	1060.37	413.81	239.54	110.41	3.78	0.67	0.22	0.08	2643.95
MIN	0.05	0.11	1.97	1.14	25.49	7.94	7.09	4.14	0.67	0.23	0.08	0.03	0.03

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN WANG BANG, NAM PAT, UTTARADIT, N.33
STREAM - NAM PAT
RIVER - NAM PAT
RIVER SYSTEM - NAN

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.82427
QS = 3.1507 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.44	275.16	755.37	18.64	18.64	398.57	149.65	4.00	1.17	0.51	0.31	0.06	
2	0.44	69.24	314.01	15.56	18.64	181.28	96.34	3.63	1.40	0.51	0.31	0.03	
3	0.44	25.55	86.86	14.06	29.38	230.59	136.75	3.21	1.40	0.44	0.31	0.03	
4	0.44	11.67	61.11	11.67	25.55	865.39	583.52	3.21	1.17	0.51	0.31	0.03	
5	0.37	8.03	630.57	9.87	23.66	704.23	1913.94	2.87	1.17	0.51	0.25	0.03	
6	0.37	5.75	524.71	9.87	156.29	450.71	341.18	2.55	1.17	0.51	0.25	0.03	
7	0.37	6.44	172.06	17.13	2012.86	606.84	163.06	2.55	1.17	0.44	0.25	0.03	
8	0.37	7.26	91.55	18.64	2627.96	835.10	118.40	2.24	1.06	0.44	0.20	0.02	
9	0.37	21.98	163.06	10.75	927.41	383.84	82.29	2.24	1.06	0.37	0.17	0.02	
10	0.37	27.51	383.84	8.03	1344.18	415.63	65.12	1.96	1.06	0.37	0.12	0.03	
11	3.21	18.64	106.83	7.26	3693.46	262.73	48.00	1.96	0.96	0.37	0.12	0.03	
12	4.39	15.56	101.25	11.67	4195.20	341.18	39.51	1.96	0.86	0.37	0.12	0.03	
13	1.64	14.06	2756.62	9.87	959.15	383.84	34.27	1.64	0.96	0.37	0.12	0.02	
14	1.17	9.87	6413.89	17.13	415.63	487.07	29.38	1.64	0.86	0.37	0.12	0.02	
15	0.59	5.75	3228.67	27.51	262.73	369.37	25.55	1.64	0.86	0.37	0.12	0.03	
16	0.51	3.63	2449.50	17.13	241.10	275.16	18.64	1.64	0.86	0.37	0.09	0.09	
17	0.76	896.16	1817.27	10.75	251.81	172.06	15.56	1.40	0.76	0.37	0.09	5.01	
18	3.21	241.10	563.60	8.03	163.06	163.06	12.73	1.40	0.76	0.37	0.09	1.64	
19	0.96	230.59	241.10	6.44	118.40	149.65	11.67	1.40	0.76	0.37	0.06	1.17	
20	0.68	300.80	241.10	5.75	106.83	101.25	9.87	1.40	0.76	0.37	0.06	0.76	
21	0.51	45.09	563.60	5.01	101.25	86.86	8.93	1.17	0.68	0.37	0.06	0.59	
22	0.44	15.56	487.07	14.06	86.86	630.57	8.03	1.17	0.68	0.31	0.03	0.44	
23	2.55	39.51	287.85	230.59	82.29	583.52	8.03	1.17	0.59	0.31	0.03	0.31	
24	9.87	1540.94	149.65	143.13	73.47	190.71	7.26	1.17	0.59	0.31	0.03	0.31	
25	8.93	704.23	91.55	73.47	210.23	118.40	6.44	1.17	0.59	0.31	0.12	0.25	
26	287.85	505.73	57.22	31.78	275.16	96.34	5.75	1.17	0.59	0.31	0.12	0.20	
27	73.47	220.30	42.26	20.35	544.00	136.75	5.01	1.17	0.59	0.31	0.09	0.20	
28	959.15	91.55	31.78	20.35	524.71	275.16	5.01	1.40	0.59	0.31	0.09	0.17	
29	606.84	39.51	25.55	45.09	275.16	130.50	4.39	1.40	0.51	0.31	0.09	0.12	
30	1460.78	36.85	21.98	50.99	275.16	163.06	4.39	1.17	0.51	0.31		0.09	
31		31.78		23.66	341.18		5.01		0.51	0.31		0.09	
TOTAL	3431.49	5465.80	22861.44	914.24	20381.37	10189.41	3963.67	56.70	26.66	11.78	4.13	11.88	67318.53 TONDAY
MEAN	114.38	176.32	762.05	29.49	657.46	339.65	127.86	1.89	0.86	0.38	0.14	0.38	
MAX	1460.78	1540.94	6413.89	230.59	4195.20	865.39	1913.94	4.00	1.40	0.51	0.31	5.01	6413.89
MIN	0.37	3.63	21.98	5.01	18.64	86.86	4.39	1.17	0.51	0.31	0.03	0.02	0.02

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-16020

STATION - BAN WANG BANG, NAM PAT, UTTARADIT, N.33
STREAM - NAM PAT
RIVER - NAM PAT
RIVER SYSTEM - NAN

ROYAL IRRIGATION DEPARTME
THAILAND
HYDROLOGY DIVISION
1.82427
QS = 3.1507 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.	1.	43.	210.	7413.	6303.	1038.	104.	29.	5.	2.	1.	
2	457.	0.	28.	140.	3137.	55267.	1168.	99.	27.	5.	2.	1.	
3	293.	5.	1676.	104.	1877.	28856.	1007.	93.	25.	5.	2.	1.	
4	34.	22.	1960.	73.	1270.	85530.	691.	83.	23.	4.	2.	1.	
5	14.	93.	2175.	51.	772.	70887.	542.	83.	23.	4.	2.	1.	
6	8.	242.	320.	40.	349.	23761.	430.	78.	21.	4.	1.	1.	
7	6.	73.	160.	47.	259.	*******	430.	78.	21.	4.	1.	1.	
8	3.	110.	73.	38.	203.	311762.	915.	78.	19.	4.	1.	1.	
9	1.	28.	64.	33.	166.	55481.	1608.	73.	17.	4.	1.	1.	
10	1.	524.	276.	33.	134.	26355.	1201.	83.	17.	3.	1.	1.	
11	1.	378.	195.	25.	115.	23761.	1168.	88.	15.	3.	1.	2.	
12	1.	78.	559.	22.	99.	22510.	772.	78.	13.	3.	1.	3.	
13	0.	28.	1135.	22.	73.	9336.	542.	68.	12.	3.	1.	2.	
14	0.	34.	800.	28.	68.	4847.	451.	64.	12.	3.	1.	1.	
15	0.	22.	1038.	29.	59.	2820.	359.	64.	10.	3.	1.	1.	
16	0.	40.	1270.	25.	93.	4367.	316.	59.	9.	3.	1.	1.	
17	5.	134.	5275.	19.	99.	72546.	330.	55.	10.	3.	1.	1.	
18	6.	40.	1795.	18.	115.	138234.	590.	51.	9.	2.	1.	1.	
19	3.	22.	596.	47.	99.	42031.	665.	47.	9.	2.	1.	1.	
20	3.	68.	1485.	23.	195.	15978.	388.	47.	9.	2.	1.	1.	
21	1.	36.	945.	23.	1007.	15681.	373.	47.	15.	2.	1.	1.	
22	10.	34.	1340.	1637.	4721.	15094.	263.	40.	7.	2.	1.	1.	
23	9.	250.	2401.	210.	1340.	9336.	203.	40.	6.	2.	1.	1.	
24	5.	127.	1795.	93.	6303.	7900.	191.	37.	7.	2.	1.	0.	
25	3.	127.	691.	2636.	56390.	4033.	330.	37.	6.	2.	1.	0.	
26	1.	47.	335.	1411.	7413.	5541.	316.	37.	6.	2.	1.	0.	
27	5.	614.	2577.	744.	2636.	6582.	214.	34.	6.	2.	1.	0.	
28	4.	2401.	3072.	8059.	1305.	2727.	181.	34.	5.	2.	1.	0.	
29	8.	320.	800.	10743.	772.	1805.	140.	34.	5.	2.		0.	
30	3.	153.	349.	42939.	524.	1201.	127.	32.	5.	2.		0.	
31		121.		17248.	718.		110.		4.	2.		0.	
TOTAL	885.	6172.	35228.	86770.	99724.	2147494.	17059.	1845.	402.	91.	33.	27.	2395730. TONS
MEAN	29.	199.	1174.	2799.	3216.	71583.	550.	61.	12.	2.	1.	0.	
MAX	457.	2401.	5275.	42939.	56390.	1076962.	1608.	104.	29.	5.	2.	3.	1076962.
MIN	0.	0.	28.	18.	59.	1201.	110.	32.	4.	2.	1.	0.	0.

WATER YEAR 1981

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.

47-1602001

RID COMPUTER CENTER

STATION - BAN WANG BANG, NAM PAT, UTTARADIT, N.33
STREAM - NAM PAT
RIVER - NAN
RIVER SYSTEM - NAN

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 2
1.82427
Q5 = 3.1507 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	0.01	0.19	0.96	0.67	39.90	1.34	1.84	0.64	0.25	0.03	0.01	0.00		
2	0.01	0.10	3.83	0.57	69.87	3.49	1.95	0.57	0.25	0.03	0.01	0.00		
3	0.01	1.34	19.08	0.48	64.64	24.82	1.34	0.57	0.21	0.03	0.01	0.00		
4	0.01	8.21	22.59	0.45	77.13	19.08	1.07	0.60	0.21	0.03	0.01	0.00		
5	0.01	1.43	9.28	0.60	261.34	9.28	0.96	4.04	0.19	0.03	0.01	0.00		
6	0.01	3.35	4.04	646.59	225.89	9.28	1.01	5.59	0.19	0.03	0.01	0.00		
7	0.01	2.67	1.84	2977.26	159.51	10.16	1.01	2.54	0.17	0.03	0.01	0.00		
8	0.01	0.75	1.13	424.52	91.24	7.89	1.24	1.63	0.15	0.03	0.01	0.00		
9	0.01	0.45	0.80	68.11	42.25	7.28	3.20	1.01	0.13	0.03	0.01	0.00		
10	0.01	0.42	0.60	102.16	26.36	4.90	4.25	0.85	0.13	0.03	0.01	0.00		
11	0.01	0.45	0.54	53.99	19.76	5.13	2.42	0.75	0.13	0.02	0.01	0.00		
12	0.01	0.29	0.51	21.15	19.08	3.49	1.63	0.67	0.13	0.03	0.01	0.00		
13	0.29	0.21	0.40	10.62	18.49	3.35	1.07	0.64	0.12	0.02	0.01	0.00		
14	0.32	0.15	0.37	6.11	12.53	2.54	0.90	0.60	0.10	0.02	0.01	0.00		
15	0.19	0.12	0.32	4.04	7.58	1.63	0.80	0.60	0.09	0.02	0.01	0.00		
16	0.09	0.09	0.45	56.84	5.59	1.24	1.01	0.60	0.07	0.02	0.01	0.00		
17	1.24	1.01	0.40	58.30	4.25	1.13	1.84	0.60	0.06	0.02	0.01	0.00		
18	1.01	9.72	0.45	28.07	3.35	1.07	8.53	0.60	0.06	0.02	0.01	0.00		
19	0.54	17.33	0.75	854.72	2.80	1.13	8.21	0.60	0.06	0.02	0.01	0.00		
20	0.19	5.59	1.73	1093.90	2.54	1.01	10.16	0.57	0.05	0.02	0.01	0.00		
21	0.10	3.63	1.07	313.85	3.83	0.85	5.59	0.51	0.05	0.02	0.01	0.00		
22	0.06	109.26	0.67	646.59	2.80	0.75	3.35	0.45	0.03	0.02	0.01	0.00		
23	0.03	165.80	0.57	159.51	2.54	3.49	2.80	0.42	0.03	0.02	0.01	0.00		
24	0.03	66.37	0.64	61.26	2.18	3.20	2.54	0.42	0.03	0.02	0.01	0.00		
25	0.05	37.61	1.63	66.37	1.73	1.84	2.18	0.40	0.03	0.02	0.01	0.00		
26	0.06	12.53	3.83	36.49	1.43	1.73	1.53	0.37	0.03	0.02	0.00	0.00		
27	0.03	10.62	4.25	20.45	1.24	1.34	1.13	0.37	0.03	0.02	0.00	0.00		
28	0.19	3.35	2.80	17.33	1.18	2.18	1.01	0.32	0.03	0.02	0.00	0.00		
29	0.42	1.84	1.24	14.05	1.18	4.46	0.90	0.29	0.03	0.01		0.00		
30	0.29	2.67	0.90	14.57	1.18	2.93	0.80	0.27	0.03	0.01		0.00		
31		1.63		93.99	1.07		0.71		0.03	0.01		0.00		
TOTAL	5.25	469.18	87.67	7813.60	1174.46	142.01	76.98	28.09	3.10	0.70	0.25	0.00	9801.28	100-TD
MEAN	0.17	15.13	2.92	252.05	37.89	4.73	2.48	0.94	0.10	0.02	0.01	0.00		
MAX	1.24	165.80	22.59	2977.26	261.34	24.82	10.16	5.59	0.25	0.03	0.01	0.00	2977.26	
MIN	0.01	0.09	0.32	0.45	1.07	0.75	0.71	0.27	0.03	0.01	0.00	0.00	0.00	

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - NAKHON SAWAN, MUANG, NAKHON SAWAN, C.2
STREAM - CHAO PHRAYA
RIVER - CHAO PHRAYA
RIVER SYSTEM - CHAO PHRAYA

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.82885
QS = 0.0832 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	107.06	84.64	93.32	196.43	98.71	186.68	460.28	134.97	108.00	25.13	11.07	9.12	
2	109.91	84.64	104.24	212.34	104.24	188.06	465.66	132.88	103.31	19.48	8.09	9.12	
3	110.87	96.00	113.76	200.68	103.31	188.06	423.42	129.77	106.12	14.98	6.55	8.59	
4	110.87	98.71	118.66	158.14	102.38	190.83	387.97	127.72	104.24	11.72	6.41	11.29	
5	118.66	100.54	111.83	136.02	101.46	182.57	342.37	129.77	108.00	9.50	10.27	10.66	
6	132.88	109.91	95.10	130.80	95.10	182.57	306.43	129.77	106.12	8.59	13.77	8.94	
7	144.56	115.71	70.77	131.84	96.00	196.43	318.50	113.76	100.54	9.88	11.94	7.13	
8	144.56	98.71	71.55	140.26	93.32	219.91	318.50	102.38	87.20	11.72	13.07	7.28	
9	144.56	97.80	74.73	140.26	94.21	227.60	291.20	109.91	71.55	12.62	18.90	8.09	
10	143.48	96.00	84.64	130.80	105.18	222.97	243.49	118.66	76.34	11.07	23.43	13.31	
11	145.64	96.90	88.93	112.79	127.72	209.34	199.26	123.65	73.93	10.07	22.18	15.97	
12	145.64	105.18	94.21	87.20	160.63	182.57	168.20	127.72	58.03	7.92	20.07	15.97	
13	147.82	97.80	107.06	69.21	188.06	165.66	144.56	134.97	39.82	7.13	17.52	12.62	
14	148.91	107.06	113.76	59.83	221.44	172.05	133.92	126.70	43.77	6.84	13.07	11.72	
15	140.26	110.87	153.33	88.06	226.05	181.21	117.67	128.74	59.83	6.69	9.50	13.07	
16	125.68	108.95	199.26	107.06	224.51	193.62	105.18	114.73	76.34	11.94	11.94	15.22	
17	108.00	108.95	274.48	109.91	230.71	186.68	96.90	117.67	85.49	22.80	20.66	15.97	
18	94.21	116.69	328.90	112.79	221.44	163.14	89.80	118.66	67.92	30.10	16.23	17.26	
19	87.20	124.66	358.70	118.66	197.84	140.26	80.44	119.65	52.21	36.51	10.86	17.52	
20	91.55	120.65	326.81	114.73	174.63	110.87	71.55	119.65	36.97	39.34	8.09	16.23	
21	86.34	132.88	342.37	108.00	159.38	104.24	65.38	105.18	41.28	34.73	5.46	15.72	
22	82.95	126.70	337.80	108.00	143.48	110.87	85.49	94.21	48.41	36.05	4.95	16.48	
23	75.53	63.51	342.37	106.12	126.70	108.00	115.71	93.32	52.78	31.33	4.70	18.62	
24	69.21	101.46	339.26	106.12	127.72	116.69	125.68	96.00	56.84	20.96	5.46	19.77	
25	68.56	108.95	306.43	95.10	132.88	121.65	120.65	99.62	78.79	18.62	6.41	18.90	
26	69.21	126.70	278.15	89.80	145.64	129.77	114.73	100.54	74.73	22.80	7.44	19.19	
27	65.38	118.66	221.44	93.32	154.44	126.70	108.95	103.31	66.65	19.48	7.92	17.26	
28	67.28	115.71	190.83	96.00	164.40	278.15	113.76	96.00	56.25	17.00	8.09	18.33	
29	73.93	102.38	185.30	94.21	152.22	439.05	119.65	96.00	37.44	20.96	8.25	19.19	
30	85.49	90.67	197.84	96.90	160.63	457.60	130.80	102.38	34.30	23.43		19.77	
31		82.11		97.80	175.93		134.97		30.10	16.23		20.96	
TOTAL	3246.20	3250.10	5719.82	3649.18	4610.36	5683.79	6001.06	3448.29	2143.30	575.62	332.30	449.27	39109.26 100-TD
MEAN	108.21	104.84	190.66	117.72	148.72	189.46	193.58	114.94	69.14	18.57	11.46	14.49	
MAX	148.91	132.88	358.70	212.34	230.71	457.60	465.66	134.97	108.00	39.34	23.43	20.96	465.66
MIN	65.38	63.51	70.77	59.83	93.32	104.24	65.38	93.32	30.10	6.69	4.70	7.13	4.70

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-1602001

STATION - NAKHON SAWAN, MUANG, NAKHON SAWAN, C.2
STREAM - CHAO PHRAYA
RIVER - CHAO PHRAYA
RIVER SYSTEM - CHAO PHRAYA

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.82885
QS = 0.0832 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL	
1	17.4	13.2	101.8	232.3	505.9	392.7	1847.2	986.6	126.0	18.1	37.0	68.2		
2	15.9	12.4	79.1	227.4	557.9	411.1	2040.4	902.2	104.6	21.4	40.6	69.7		
3	14.8	13.7	64.9	212.1	582.1	439.3	2357.3	809.4	97.2	31.6	57.6	64.9		
4	13.9	14.8	63.4	197.3	593.0	441.7	2723.3	724.9	89.2	30.3	67.4	58.0		
5	16.1	13.1	51.3	181.8	590.3	463.5	2907.5	646.0	79.1	20.7	55.9	55.9		
6	15.1	11.4	79.9	173.5	579.4	495.7	3117.4	584.8	86.6	14.8	46.7	56.8		
7	15.5	13.7	44.3	173.5	552.6	521.3	3293.7	526.4	90.1	15.2	40.6	56.4		
8	17.1	15.7	48.2	154.4	518.7	547.3	3520.3	475.8	88.4	17.1	43.5	57.6		
9	15.7	13.7	51.3	138.1	485.7	595.8	3706.4	463.5	86.6	14.6	38.0	55.9		
10	14.3	15.2	53.8	121.0	434.5	651.7	3706.4	446.5	84.9	18.1	36.6	58.0		
11	12.8	18.3	60.7	111.2	381.4	717.4	3659.4	422.7	88.4	35.9	36.6	55.9		
12	13.2	21.4	64.9	115.1	340.0	762.7	3566.4	404.1	103.6	49.3	37.6	48.6		
13	14.6	26.0	76.6	108.3	296.7	770.4	3338.5	377.0	107.4	52.2	43.5	55.9		
14	15.2	22.8	80.7	108.3	264.5	770.4	3161.1	359.3	89.2	51.3	45.4	56.8		
15	14.8	17.8	88.4	99.0	233.6	774.3	2934.3	331.5	64.1	39.8	56.4	62.6		
16	12.0	12.2	103.6	88.4	206.2	778.1	2775.4	310.8	54.3	29.3	75.0	65.4		
17	8.7	12.8	126.0	79.9	180.2	774.3	2569.8	278.9	54.7	27.5	78.2	76.6		
18	8.0	22.8	121.0	71.0	173.5	789.8	2394.5	259.3	55.4	26.9	64.1	69.7		
19	10.7	34.5	116.0	69.7	188.7	789.8	2247.3	254.2	61.4	22.8	38.4	56.4		
20	14.3	30.3	126.0	69.0	181.8	845.1	2139.6	238.6	88.4	17.4	25.7	59.5		
21	15.5	25.0	139.5	71.8	165.4	923.0	2028.4	235.4	67.4	15.1	32.3	62.1		
22	14.3	20.1	153.3	84.9	170.8	1043.3	1916.5	227.4	69.0	14.8	34.5	64.1		
23	14.1	43.9	215.1	112.1	194.4	1132.4	1819.8	233.6	48.6	13.4	33.6	60.0		
24	11.8	206.2	264.5	137.1	219.9	1170.3	1729.9	230.5	35.9	19.3	38.4	59.5		
25	11.7	267.9	286.8	177.5	243.1	1238.1	1624.8	215.1	28.0	32.3	42.4	56.8		
26	13.1	207.8	286.8	215.1	271.2	1301.9	1514.3	191.6	23.9	36.6	39.8	47.3		
27	13.7	143.1	290.7	264.5	312.9	1405.2	1373.1	158.6	23.3	32.3	48.2	57.6		
28	13.1	109.3	278.9	370.3	361.5	1492.4	1319.5	140.6	21.1	30.3	58.0	65.4		
29	12.4	93.6	259.3	425.1	383.7	1590.4	1243.9	148.2	19.9	28.4		68.2		
30	13.4	84.1	244.9	446.5	388.2	1703.4	1132.4	147.1	18.6	21.7		75.0		
31		91.0		470.8	385.9		1053.0		17.8	27.2		73.4		
TOTAL	413.2	1647.8	4021.7	5507.0	10943.6	25732.7	74761.7	11730.5	2073.1	825.7	1292.0	1898.2	140847.4	100-TD
MEAN	13.7	53.1	134.0	177.6	353.0	857.7	2411.6	391.0	66.8	26.6	46.1	61.2		
MAX	17.4	267.9	290.7	470.8	593.0	1703.4	3706.4	986.6	126.0	52.2	78.2	76.6	3706.4	
MIN	8.0	11.4	44.3	69.0	165.4	392.7	1053.0	140.6	17.8	13.4	25.7	47.3	8.0	

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - KHAI CHIRA PRAWAT, MUANG, NAKHON SAWAN, C.2
STREAM -
RIVER - CHAO PHRAYA
RIVER SYSTEM - CHAO PHRAYA

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 1
1.82885
QS = 0.0832 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	71.8	96.3	236.8	125.7	352.8	559.9	291.2	177.1	375.9	34.7	26.2	90.1	
2	81.3	111.8	232.3	120.0	378.1	528.4	294.7	186.3	343.7	39.6	30.3	92.4	
3	81.3	102.4	186.3	136.0	400.1	494.5	323.2	191.6	308.8	42.6	31.7	90.1	
4	82.1	84.1	172.0	125.7	426.2	509.1	330.5	181.0	296.7	36.4	31.7	75.0	
5	75.8	75.0	169.6	99.0	459.8	530.3	326.8	175.9	269.3	28.9	43.1	81.3	
6	85.5	75.0	191.6	74.5	485.1	550.6	340.0	188.7	236.8	29.3	50.0	82.1	
7	86.9	79.9	207.8	73.7	494.5	575.4	298.2	209.1	203.2	32.7	54.5	88.4	
8	78.5	93.0	222.5	80.4	518.7	615.8	233.6	233.6	175.9	29.3	55.0	93.0	
9	75.0	103.9	241.3	77.7	540.1	618.6	224.3	282.8	142.4	30.3	58.7	88.4	
10	72.6	105.8	224.3	139.2	557.9	610.2	235.0	487.6	117.3	30.3	63.4	73.1	
11	77.2	103.3	209.1	178.3	580.1	621.4	249.5	487.6	105.8	30.0	60.4	71.8	
12	84.9	96.3	209.1	172.0	582.8	627.0	256.1	432.7	103.3	30.7	58.7	82.1	
13	90.1	79.9	203.2	160.1	582.8	638.2	259.3	391.6	93.0	28.9	57.6	88.4	
14	91.6	70.5	194.4	166.9	585.5	632.6	246.3	356.6	88.4	24.5	59.2	89.2	
15	93.0	81.3	191.6	155.6	588.2	613.0	213.4	312.3	97.2	21.7	56.4	93.9	
16	75.0	90.7	197.3	133.9	613.0	555.3	183.5	280.9	102.4	23.0	53.8	90.1	
17	52.9	96.3	183.5	135.0	641.1	499.5	169.6	284.3	86.9	26.2	53.3	76.3	
18	56.8	89.2	170.8	147.8	646.7	471.4	160.1	277.5	86.1	39.6	48.8	75.0	
19	84.1	81.3	147.8	150.0	643.9	450.7	162.3	289.7	84.1	58.0	63.4	89.2	
20	97.2	67.9	165.8	141.3	638.2	432.7	183.5	233.6	82.7	55.7	75.0	101.5	
21	88.4	67.9	173.5	127.7	641.1	397.8	209.1	453.1	84.1	40.4	69.2	106.4	
22	77.2	75.8	156.7	116.4	641.1	379.8	210.4	453.1	82.7	44.1	67.9	109.9	
23	79.9	83.5	136.0	156.7	638.2	372.0	247.7	459.8	77.2	51.1	70.0	107.4	
24	86.1	100.5	118.0	206.2	635.4	355.0	250.9	466.5	64.1	58.7	65.9	99.9	
25	90.7	124.7	103.9	269.3	641.1	347.5	254.2	448.3	58.0	53.3	62.4	96.3	
26	85.5	174.7	117.3	294.7	641.1	360.4	233.6	428.0	55.0	47.1	71.3	97.2	
27	90.7	179.9	123.7	307.2	627.0	374.2	204.9	421.5	47.5	47.1	85.5	105.8	
28	102.4	174.7	130.8	321.6	607.5	375.9	170.8	419.2	45.6	43.1	87.5	103.9	
29	89.2	212.1	131.8	318.0	588.2	374.2	141.3	408.7	43.1	34.1		92.4	
30	83.5	236.8	131.8	300.2	578.1	343.7	143.5	408.7	45.6	28.2		93.0	
31		233.6		319.5	572.7		165.8		36.8	23.9		75.8	
TOTAL	2467.2	3448.1	5280.5	5330.3	17527.0	14815.0	7213.2	10027.3	4039.5	1143.5	1610.9	2799.4	75702.3 100-TD
MEAN	82.2	111.2	176.0	171.9	565.3	493.8	232.6	334.2	130.3	36.8	57.5	90.3	
MAX	102.4	236.8	241.3	321.6	646.7	638.2	340.0	487.6	375.9	58.7	87.5	109.9	646.7
MIN	52.9	67.9	103.9	73.7	352.8	343.7	141.3	175.9	36.8	21.7	26.2	71.8	21.7

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN MUANG NUA, KAENG KHOI, SARABURI, S.9
STREAM - PA SAK
RIVER - PA SAK
RIVER SYSTEM - PA SAK

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.22449
QS = 4.3707 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	35.2	55.8	93.5	978.2	247.3	1032.6	4488.1	96.8	60.1	35.2	18.9	13.4	
2	35.2	76.0	90.2	903.0	160.8	1114.1	4177.2	90.2	60.1	33.3	18.9	13.4	
3	35.2	67.9	81.4	839.5	120.4	989.1	3929.9	90.2	57.9	35.2	17.5	13.4	
4	33.3	53.6	87.0	789.9	106.8	924.4	3889.0	87.0	57.9	37.2	17.5	12.1	
5	33.3	49.4	144.4	741.6	100.1	850.0	3766.7	81.4	55.8	35.2	16.1	12.1	
6	35.2	47.4	136.3	664.2	90.2	770.5	3564.4	84.2	55.8	33.3	16.1	10.8	
7	35.2	45.3	140.4	564.8	87.0	698.0	3364.3	76.0	55.8	31.4	16.1	10.8	
8	31.4	60.1	269.9	476.4	84.2	672.5	3169.8	73.3	43.2	31.4	16.1	10.8	
9	29.5	110.2	219.6	384.3	84.2	605.8	2779.7	70.6	41.2	31.4	18.9	10.8	
10	29.5	103.4	181.8	327.4	100.1	556.6	2435.2	70.6	39.2	31.4	16.1	10.8	
11	31.4	76.0	160.8	333.9	110.2	508.3	2112.6	67.9	37.2	31.4	16.1	10.8	
12	33.3	78.7	148.5	276.2	144.4	508.3	1832.0	67.9	37.2	29.5	14.7	10.8	
13	35.2	132.3	187.1	225.1	589.5	492.4	1580.4	70.6	37.2	29.5	14.7	10.8	
14	35.2	120.4	252.9	203.2	1043.6	476.4	1380.3	73.3	39.2	29.5	13.4	9.6	
15	33.3	117.0	258.6	192.5	903.0	492.4	1149.7	70.6	39.2	27.6	12.1	14.7	
16	35.2	113.6	247.3	241.7	508.3	524.4	935.1	70.6	39.2	27.6	13.4	12.1	
17	35.2	87.0	258.6	264.2	276.2	556.6	732.0	70.6	39.2	27.6	13.4	18.9	
18	35.2	73.3	258.6	269.9	208.6	564.8	573.1	67.9	39.2	27.6	13.4	18.9	
19	33.3	87.0	276.2	282.5	236.1	581.2	445.1	67.9	39.2	25.7	13.4	14.7	
20	33.3	327.4	295.2	269.9	282.5	581.2	333.9	65.3	43.2	25.7	13.4	10.8	
21	31.4	760.9	320.9	241.7	314.4	605.8	247.3	65.3	41.2	23.9	13.4	10.8	
22	29.5	1161.6	348.2	214.1	348.2	597.6	192.5	65.3	41.2	23.9	13.4	12.1	
23	31.4	1924.7	384.3	187.1	406.3	532.4	160.8	62.7	37.2	23.9	12.1	13.4	
24	39.2	1238.0	414.1	160.8	484.4	956.6	144.4	60.1	39.2	22.1	17.5	22.1	
25	43.2	573.1	476.4	148.5	564.8	2210.3	136.3	60.1	39.2	22.1	25.7	31.4	
26	45.3	384.3	532.4	144.4	647.4	1538.7	128.3	60.1	39.2	20.3	18.9	22.1	
27	45.3	288.9	49.4	132.3	723.4	1341.2	136.3	60.1	37.2	20.3	16.1	18.9	
28	45.3	187.1	84.2	136.3	809.4	1987.0	132.3	60.1	35.2	20.3	14.7	16.1	
29	73.3	132.3	110.2	166.0	903.0	3094.8	113.6	57.9	35.2	18.9	14.7	13.4	
30	73.3	113.6	171.3	156.7	967.4	4305.6	110.2	57.9	35.2	18.9		13.4	
31		100.1		247.3	1021.7		96.8		35.2	18.9		16.1	
TOTAL	1130.8	8746.4	6679.6	11163.5	12673.8	30669.5	48237.2	2122.5	1332.2	850.2	456.7	440.3	124502.9 TONDAY
MEAN	37.6	282.1	222.6	360.1	408.8	1022.3	1556.0	70.7	42.9	27.4	15.7	14.2	
MAX	73.3	1924.7	532.4	978.2	1043.6	4305.6	4488.1	96.8	60.1	37.2	25.7	31.4	4488.1
MIN	29.5	45.3	49.4	132.3	84.2	476.4	96.8	57.9	35.2	18.9	12.1	9.6	9.6

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-16020

STATION - BAN MUANG NUA, KAENG KHOI, SARABURI., S.9
STREAM - PA SAK
RIVER - PA SAK
RIVER SYSTEM - PA SAK

ROYAL IRRIGATION DEPARTMEI
THAILAND
HYDROLOGY DIVISION
1.22449
QS = 4.3707 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.52	0.54	0.34	8.63	11.07	10.64	118.61	15.29	2.36	1.11	0.49	0.64	
2	0.47	0.34	0.59	10.03	12.26	11.90	130.27	12.99	2.27	1.07	0.49	1.63	
3	0.89	0.39	0.62	11.66	13.35	13.35	144.58	11.42	2.18	1.03	0.49	1.26	
4	0.62	0.59	0.75	12.86	14.58	14.72	165.13	10.13	2.14	0.99	0.47	0.75	
5	0.42	0.37	1.38	14.09	15.85	16.14	177.57	9.02	2.10	0.95	0.44	0.62	
6	0.34	0.25	2.99	15.57	16.85	18.01	173.89	8.14	2.05	0.95	0.42	0.59	
7	0.30	0.34	2.45	16.99	18.44	20.65	164.76	7.46	2.01	0.95	0.44	1.84	
8	0.28	0.34	2.99	19.91	19.32	22.52	153.07	6.98	1.97	0.95	0.39	0.89	
9	0.28	0.28	3.22	20.80	20.21	24.39	142.13	6.32	1.92	0.92	0.39	0.99	
10	0.28	0.23	3.46	20.36	20.95	25.41	132.38	5.96	1.88	0.89	0.37	0.81	
11	0.28	0.59	3.46	20.06	21.70	26.62	127.26	6.13	1.84	0.86	0.34	0.62	
12	0.25	0.70	3.76	19.32	22.02	27.67	123.37	5.96	1.75	0.83	0.32	0.52	
13	0.23	0.57	3.98	17.57	22.52	27.84	116.54	5.41	1.71	0.78	0.30	0.54	
14	0.25	0.42	3.98	14.46	22.69	29.25	107.73	4.95	1.67	0.75	0.30	0.47	
15	0.23	0.42	3.46	11.19	22.52	31.07	98.05	4.50	1.67	0.72	0.30	0.47	
16	0.23	0.67	3.58	8.14	22.69	32.65	89.40	4.05	1.63	0.72	0.30	0.42	
17	0.23	0.47	3.22	5.81	21.85	35.44	83.72	3.76	1.63	0.70	0.28	0.37	
18	0.23	0.57	3.90	4.35	20.50	39.91	77.09	3.52	1.59	0.70	0.28	0.32	
19	0.23	0.52	3.83	3.40	18.30	41.77	66.86	3.40	1.59	0.67	0.28	0.30	
20	0.21	0.47	3.64	2.87	15.00	43.85	56.05	3.34	1.55	0.67	0.28	0.25	
21	0.23	0.47	3.22	2.54	11.78	48.28	48.07	3.34	1.55	0.64	0.28	0.25	
22	0.21	0.44	2.54	2.36	8.92	54.09	40.94	3.22	1.46	0.64	0.28	0.23	
23	0.21	0.37	2.18	2.32	6.79	59.12	34.24	3.22	1.38	0.64	0.25	0.23	
24	0.19	0.28	2.41	2.54	5.11	65.87	30.13	3.05	1.34	0.64	0.23	0.23	
25	0.19	0.42	3.34	2.36	3.98	75.08	32.06	2.87	1.34	0.62	0.23	0.21	
26	0.17	0.57	3.83	2.50	3.34	83.98	36.65	2.76	1.30	0.59	0.25	0.19	
27	0.15	0.54	4.35	3.52	3.34	90.96	38.07	2.64	1.26	0.57	0.34	0.19	
28	0.19	0.59	5.41	5.65	4.12	94.62	34.84	2.50	1.22	0.57	0.34	0.19	
29	1.03	0.62	6.13	7.94	5.34	99.37	29.07	2.45	1.18	0.54		0.19	
30	1.03	0.44	7.07	9.42	7.07	107.15	23.20	2.36	1.18	0.52		0.19	
31		0.39		10.33	9.02		18.88		1.15	0.49		0.19	
TOTAL	10.37	14.20	96.08	309.55	441.48	1292.32	2814.61	167.14	51.87	23.67	9.57	16.59	5247.44
MEAN	0.35	0.46	3.20	9.99	14.24	43.08	90.79	5.57	1.67	0.76	0.34	0.54	
MAX	1.03	0.70	7.07	20.80	22.69	107.15	177.57	15.29	2.36	1.11	0.49	1.84	177.57
MIN	0.15	0.23	0.34	2.32	3.34	10.64	18.88	2.36	1.15	0.49	0.23	0.19	0.15

100-T

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN MUANG NUA, KAENG KHOI, SARA BURI, S.9
STREAM -
RIVER - PA SAK
RIVER SYSTEM - PA SAK

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.22449

QS = 4.3707 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.11	0.68	1.56	1.32	23.03	50.92	31.20	10.60	4.27	1.28	0.49	0.30	
2	0.11	0.93	1.36	1.71	21.52	52.00	30.31	9.67	3.83	1.28	0.47	0.30	
3	0.11	1.36	1.92	2.53	20.60	47.72	30.31	8.75	3.54	1.28	0.47	0.30	
4	0.13	1.77	2.31	2.70	19.40	39.58	32.45	7.50	3.33	1.24	0.44	0.30	
5	0.13	1.71	1.66	3.05	20.60	31.20	31.20	6.55	3.05	1.20	0.44	0.30	
6	0.13	4.50	1.32	3.98	24.90	23.70	28.19	6.74	2.93	1.16	0.44	0.30	
7	0.13	3.26	1.13	5.81	34.31	20.00	25.41	9.32	2.81	1.13	0.44	0.28	
8	0.11	2.25	1.05	5.18	45.40	20.60	25.59	8.42	2.76	1.05	0.44	0.28	
9	0.09	4.35	0.97	4.88	52.65	24.04	27.32	7.40	2.70	1.05	0.42	0.28	
10	0.07	2.70	0.93	4.50	49.64	28.02	30.49	8.87	2.59	1.01	0.42	0.28	
11	0.07	2.14	0.97	4.05	47.51	31.91	32.09	9.67	2.47	1.01	0.42	0.28	
12	0.11	1.66	1.05	3.61	46.87	39.17	32.99	9.21	2.36	0.97	0.39	0.25	
13	0.21	1.24	1.09	3.05	46.66	42.89	31.91	8.64	2.25	0.97	0.39	0.25	
14	1.36	0.90	1.24	2.31	45.61	47.08	28.72	8.19	2.14	0.90	0.39	0.25	
15	1.36	0.71	1.77	1.92	44.56	49.00	24.04	7.89	2.03	0.86	0.39	0.25	
16	1.28	0.62	1.82	2.03	43.72	43.72	20.91	7.79	2.03	0.79	0.37	0.25	
17	1.40	0.59	1.61	2.59	43.51	38.35	17.61	7.59	1.92	0.75	0.37	0.23	
18	0.97	0.64	1.16	3.47	42.47	43.09	15.14	7.40	1.92	0.71	0.37	0.23	
19	0.68	0.93	1.45	5.18	42.68	33.17	14.71	7.40	1.87	0.64	0.37	0.21	
20	0.57	1.98	2.25	6.27	41.23	30.66	15.72	7.31	1.77	0.62	0.37	0.21	
21	0.47	1.61	1.77	17.03	42.05	30.13	15.00	7.02	1.71	0.62	0.34	0.21	
22	0.68	1.24	2.36	27.84	43.93	30.49	13.30	7.02	1.71	0.62	0.34	0.21	
23	1.13	1.09	1.71	23.70	41.23	27.84	12.14	6.74	1.66	0.59	0.34	0.21	
24	0.90	1.05	1.51	25.93	39.37	25.41	11.42	6.45	1.61	0.57	0.34	0.21	
25	2.25	0.97	1.51	26.62	38.96	29.25	11.42	5.99	1.61	0.57	0.32	0.21	
26	2.25	0.90	1.66	26.45	39.99	28.54	12.02	5.81	1.56	0.57	0.32	0.21	
27	1.98	1.61	1.92	26.62	42.47	33.17	12.26	5.53	1.51	0.54	0.30	0.30	
28	1.09	2.09	1.32	26.10	44.56	35.11	12.38	5.26	1.45	0.52	0.30	0.44	
29	0.71	1.56	1.13	25.59	46.66	32.27	12.38	5.18	1.40	0.52		0.37	
30	0.62	1.20	1.16	25.07	48.36	31.91	12.26	4.72	1.36	0.49		0.32	
31		1.51		24.39	49.42		11.54		1.32	0.49		0.28	
TOTAL	21.21	49.75	44.67	345.48	1233.87	1040.94	662.43	224.63	69.47	26.00	10.90	8.30	3737.64 100-TD
MEAN	0.71	1.60	1.49	11.14	39.80	34.70	21.37	7.49	2.24	0.84	0.39	0.27	
MAX	2.25	4.50	2.36	27.84	52.65	52.00	32.99	10.60	4.27	1.28	0.49	0.44	52.65
MIN	0.07	0.59	0.93	1.32	19.40	20.00	11.42	4.72	1.32	0.49	0.30	0.21	0.07

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN NONG O, BAN KHWAO, CHIYAPHUM, E.32A
STREAM - CHI
RIVER - CHI
RIVER SYSTEM - CHI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.35401

QS = 2.7888 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	10.2	22.0	35.2	66.4	57.9	93.7	1309.3	30.8	12.9	4.8	4.4	2.4	
2	10.2	22.7	59.6	51.4	43.5	266.4	714.6	30.1	12.3	4.8	4.4	1.7	
3	10.2	19.5	59.6	45.0	38.1	366.4	488.8	27.4	11.8	4.8	4.4	1.7	
4	9.6	19.5	36.6	48.2	41.9	873.3	338.3	26.7	11.8	4.8	4.0	1.4	
5	9.6	19.5	48.2	46.6	38.1	1435.4	249.1	24.7	11.2	4.0	4.0	1.4	
6	9.6	19.5	77.0	35.9	34.4	546.5	229.8	23.3	11.2	4.0	4.0	1.4	
7	9.6	18.2	64.7	32.3	30.8	266.4	196.9	22.7	11.2	4.4	4.0	1.1	
8	9.6	17.0	48.2	40.4	28.7	227.4	174.3	22.0	10.7	4.8	4.0	0.8	
9	9.6	38.9	69.9	40.4	28.0	215.5	158.9	20.1	10.7	4.8	3.2	0.8	
10	9.6	66.4	109.1	32.3	43.5	146.0	139.7	19.5	10.2	4.8	2.8	0.8	
11	9.6	37.4	88.0	30.8	268.9	150.3	123.1	18.2	9.1	4.8	2.8	1.1	
12	10.2	26.0	71.7	32.3	467.0	318.6	111.1	18.2	9.1	4.8	2.8	1.1	
13	10.2	20.1	63.0	35.2	239.4	374.6	101.3	18.2	9.1	5.3	2.4	0.5	
14	10.2	18.2	194.6	38.1	150.3	330.4	91.8	17.6	8.6	5.3	1.7	0.3	
15	10.2	18.2	587.4	30.8	119.1	206.2	82.5	17.0	8.6	4.8	1.7	0.3	
16	10.2	18.2	515.2	26.0	103.2	169.9	73.5	17.0	8.6	4.8	1.4	1.4	
17	10.2	18.2	395.1	22.7	123.1	158.9	69.9	16.4	8.6	4.8	1.4	3.6	
18	10.2	18.2	506.3	21.4	93.7	127.2	64.7	16.4	8.6	4.4	1.1	2.4	
19	24.7	18.2	374.6	21.4	77.0	109.1	56.3	16.4	8.6	4.4	1.1	1.4	
20	20.7	18.8	169.9	31.6	91.8	119.1	49.8	15.8	8.6	4.4	1.7	1.4	
21	18.2	30.8	137.6	28.7	71.7	196.9	45.0	15.2	8.6	4.4	2.4	3.6	
22	18.2	38.9	143.9	26.7	54.6	273.9	41.9	14.6	8.6	4.0	2.1	2.4	
23	18.2	80.7	148.1	30.1	43.5	276.4	38.9	14.6	8.1	4.0	2.1	1.7	
24	22.7	95.6	97.5	41.9	41.9	837.9	37.4	14.0	7.6	4.0	2.1	1.4	
25	30.8	86.2	68.2	33.0	48.2	1493.6	36.6	14.0	7.1	3.6	2.1	1.7	
26	25.3	56.3	54.6	35.9	51.4	4585.1	35.9	14.0	6.7	4.0	2.4	2.1	
27	23.3	36.6	46.6	31.6	131.3	7614.7	37.4	13.5	6.2	4.0	2.8	2.4	
28	20.1	28.7	59.6	29.4	156.7	8858.9	40.4	13.5	6.2	5.7	2.4	1.1	
29	22.0	24.0	61.3	46.6	117.1	4742.8	49.8	13.5	5.7	5.7	2.4	1.1	
30	18.8	22.7	68.2	48.2	77.0	1959.5	38.1	12.9	5.3	5.7		1.1	
31		26.0		41.9	66.4		33.7		4.8	5.3		0.8	
TOTAL	441.8	1001.2	4459.5	1123.2	2978.2	37340.9	5258.7	558.3	276.4	144.2	78.1	46.4	53707.0 TONDAY
MEAN	14.7	32.3	148.6	36.2	96.0	1244.7	169.6	18.6	8.9	4.6	2.6	1.5	
MAX	30.8	95.6	587.4	66.4	467.0	8858.9	1309.3	30.8	12.9	5.7	4.4	3.6	8858.9
MIN	9.6	17.0	35.2	21.4	28.0	93.7	33.7	12.9	4.8	3.6	1.1	0.3	0.3

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN NONG O, BAN KHWAO, CHAIYAPHUM, E.32A
STREAM - CHI
RIVER - CHI
RIVER SYSTEM - CHI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW
1.35401
QS = 2.7888 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.1	1.1	71.3	276.4	527.0	457.7	1518.1	156.7	38.1	19.5	8.6	3.6	
2	1.4	0.5	75.2	206.2	360.4	310.8	2054.4	137.6	38.1	17.6	8.6	3.6	
3	4.8	0.5	72.6	152.4	266.4	244.3	4634.9	123.1	38.1	15.8	8.6	3.6	
4	8.1	0.1	203.9	111.1	217.9	206.2	8741.0	109.1	35.9	15.8	8.6	7.6	
5	5.7	4.4	298.0	84.8	176.5	194.6	10389.8	101.8	34.8	15.8	8.6	8.1	
6	9.1	7.6	225.0	79.3	143.9	263.9	7577.4	98.9	33.7	14.9	7.6	7.1	
7	6.7	3.6	199.2	71.3	123.1	1504.4	4221.3	93.2	33.7	14.9	7.6	6.2	
8	6.2	17.6	83.4	67.3	107.6	2257.4	6450.2	91.8	30.5	14.0	7.6	5.3	
9	4.4	10.2	53.4	64.7	101.8	1497.5	6054.3	94.6	30.5	14.0	7.1	7.1	
10	3.6	4.0	47.4	67.3	100.3	2387.7	3324.1	91.8	30.5	13.2	7.1	7.1	
11	3.2	2.1	48.6	77.9	100.3	2688.1	1980.4	89.0	30.5	13.2	7.1	6.7	
12	2.8	1.4	187.8	69.9	104.7	2697.3	1095.5	83.4	29.4	12.3	7.1	13.2	
13	3.2	1.4	684.9	64.7	107.6	1973.1	789.6	79.3	27.4	11.8	7.1	14.0	
14	2.8	4.8	774.8	58.4	107.6	1090.1	622.0	75.2	26.3	11.2	7.1	14.0	
15	2.1	5.7	482.9	69.9	115.1	1182.8	512.2	71.3	25.3	11.2	7.1	14.9	
16	2.1	4.4	373.9	67.3	314.1	1559.4	432.8	67.3	25.3	11.2	6.7	14.9	
17	2.1	4.4	591.2	58.4	696.9	1706.2	479.3	63.4	25.3	10.7	6.7	14.0	
18	0.5	4.4	1238.2	64.7	337.0	1580.1	464.9	60.9	25.3	10.2	6.7	11.2	
19	1.1	4.0	1914.5	64.7	411.7	4990.1	450.5	58.4	24.3	9.6	5.3	9.1	
20	1.4	5.3	2816.4	67.3	737.2	7181.7	501.2	58.4	23.3	9.6	5.3	8.1	
21	0.8	10.7	3750.8	133.4	1031.2	7513.3	401.3	55.9	23.3	9.6	5.3	7.1	
22	0.5	40.4	5727.3	1193.8	869.9	7099.4	340.3	53.4	22.3	9.1	4.8	7.1	
23	0.8	96.0	5405.2	1355.8	508.5	6691.7	276.4	51.0	22.3	9.1	4.0	6.2	
24	0.5	196.9	2136.5	819.5	422.2	6054.3	333.7	49.8	22.3	9.1	4.0	5.3	
25	0.3	165.5	649.4	717.0	789.6	4766.6	482.9	47.4	21.4	9.1	3.6	4.0	
26	0.8	87.6	377.3	1538.7	602.7	2950.9	304.4	46.2	21.4	9.6	3.2	4.0	
27	0.8	84.8	172.1	4123.0	538.2	3077.5	259.0	43.8	21.4	9.6	3.6	3.6	
28	0.5	87.6	194.6	4123.0	373.9	3676.5	199.2	42.7	21.4	9.6	3.6	3.6	
29	1.1	104.7	185.5	2326.2	254.0	2606.5	169.9	40.4	21.4	9.6		3.6	
30	1.4	199.2	203.9	1316.0	454.1	1741.7	150.3	39.3	20.4	9.1		2.8	
31		119.1		712.9	486.6		152.4		19.5	8.6		2.8	
TOTAL	79.9	1280.0	29245.1	20203.3	11487.9	82151.7	65363.6	2275.1	843.4	368.6	178.3	229.5	213706.5 TONDAY
MEAN	2.6	41.2	974.8	651.7	370.5	2738.3	2108.5	75.8	27.2	11.8	6.3	7.4	
MAX	9.1	199.2	5727.3	4123.0	1031.2	7513.3	10389.8	156.7	38.1	19.5	8.6	14.9	10389.8
MIN	0.3	0.1	47.4	58.4	100.3	194.6	150.3	39.3	19.5	8.6	3.2	2.8	0.1

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-160200

STATION - BAN NONG O, BAN KHWAO, CHAIYAPHUM, E.32A
STREAM - CHI
RIVER - CHI
RIVER SYSTEM - CHI

ROYAL IRRIGATION DEPARTMEN
THAILAND
HYDROLOGY DIVISION

1.35401
QS = 2.7888 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	3.4	23.7	81.8	45.8	1078.2	94.6	258.8	124.1	44.2	12.0	8.4	4.6	
2	4.2	39.6	239.4	37.2	1156.8	197.5	188.9	134.4	42.7	12.0	7.5	4.6	
3	4.6	28.0	88.1	31.4	659.6	1017.6	220.8	129.3	39.6	12.7	7.9	5.8	
4	5.8	28.0	49.0	28.0	402.0	1543.8	249.1	155.6	37.2	12.7	7.9	5.0	
5	5.8	50.6	50.6	26.9	799.9	1089.4	194.6	203.3	36.0	12.7	7.9	4.6	
6	6.2	30.3	34.9	28.0	1468.7	438.4	614.3	233.0	34.9	12.7	7.9	4.6	
7	5.8	90.3	31.4	71.6	1151.1	217.9	809.5	194.6	32.6	12.0	7.9	4.6	
8	3.8	52.2	36.0	169.3	814.3	153.0	319.7	161.1	31.4	11.4	7.9	4.6	
9	3.4	30.3	25.9	139.7	522.3	233.0	245.8	137.0	30.3	10.7	8.4	4.2	
10	6.2	21.6	19.6	114.1	354.9	275.4	233.0	124.1	28.0	10.7	8.4	3.4	
11	22.7	14.7	16.2	186.1	1236.7	226.8	239.4	109.1	26.9	10.7	8.4	3.1	
12	13.4	11.4	26.9	144.9	1365.1	200.4	180.4	99.4	25.9	10.2	8.4	3.1	
13	7.5	11.4	25.9	109.1	1083.8	177.6	139.7	92.4	24.8	10.7	7.0	2.8	
14	24.8	9.7	20.6	81.8	790.3	163.8	131.8	86.0	23.7	12.0	7.0	2.1	
15	38.4	8.8	16.9	59.0	668.6	186.1	124.1	83.9	22.7	12.0	7.0	2.1	
16	14.0	7.5	16.2	52.2	418.2	131.8	137.0	99.4	20.6	11.4	7.0	1.8	
17	8.8	6.2	14.0	86.0	285.5	101.8	833.5	97.0	20.6	10.7	7.0	1.8	
18	6.2	38.4	16.2	249.1	212.0	90.3	2150.8	97.0	21.6	10.2	7.0	1.8	
19	5.0	265.5	37.2	155.6	166.6	86.0	3543.2	90.3	20.6	9.7	7.0	1.8	
20	4.2	124.1	71.6	137.0	172.1	88.1	2949.9	83.9	17.6	9.3	7.0	1.8	
21	7.5	66.1	71.6	226.8	186.1	92.4	1607.1	77.6	16.2	8.8	7.0	2.1	
22	10.2	47.4	172.1	752.3	153.0	155.6	1045.0	69.8	15.4	8.8	6.2	2.4	
23	9.7	53.8	853.0	1156.8	126.7	139.7	790.3	64.3	14.7	9.3	5.8	2.4	
24	8.4	62.5	319.7	484.1	126.7	964.4	578.8	60.7	14.7	8.4	5.4	2.1	
25	7.5	94.6	326.6	309.3	134.4	1853.8	422.2	57.2	14.7	7.9	5.4	1.8	
26	7.0	69.8	252.3	275.4	101.8	1213.7	337.1	53.8	14.0	8.4	5.0	2.8	
27	9.3	36.0	161.1	174.9	86.0	383.7	282.2	53.8	14.0	8.4	5.0	2.8	
28	8.4	37.2	101.8	131.8	75.5	309.3	236.1	52.2	14.0	7.9	5.0	2.4	
29	6.2	26.9	73.5	121.6	67.9	565.6	212.0	53.8	14.0	8.4		3.4	
30	7.5	16.9	62.5	214.9	64.3	414.1	186.1	49.0	13.4	8.4		6.2	
31		17.6		714.7	93.9		153.0		12.7	8.4		9.7	
TOTAL	275.9	1421.1	3312.6	6515.4	16012.9	12805.5	19614.1	3127.1	739.7	319.6	197.7	106.3	64448.1 TONDAY
MEAN	9.2	45.8	110.4	210.1	516.5	426.8	632.7	104.2	23.8	10.3	7.0	3.4	
MAX	38.4	265.5	853.0	1156.8	1468.7	1853.8	3543.2	233.0	44.2	12.7	8.4	9.7	3543.2
MIN	3.4	6.2	14.0	26.9	64.3	86.0	124.1	49.0	12.7	7.9	5.0	1.8	1.8

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - DET UDOM, DET UDOM, UBON RATCHATHANI, M.80
STREAM - LAM DOM YAI
RIVER - LAM DOM YAI
RIVER SYSTEM - MUN

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.33572
QS = 2.2096 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.8	1.2	6.5	4358.7	199.4	517.1	4220.2	81.5	19.0	7.9	4.4	2.3	
2	1.0	1.0	5.9	3869.2	210.4	696.1	3946.5	75.9	19.0	7.9	4.1	2.3	
3	1.6	1.6	6.2	2972.6	233.0	721.2	3773.1	66.7	19.0	7.5	3.9	2.3	
4	2.1	1.2	7.1	2608.5	264.9	545.2	3773.1	64.9	18.2	7.1	3.6	2.6	
5	2.1	1.0	9.6	2608.5	276.8	526.4	3592.1	61.3	18.2	7.1	3.6	2.6	
6	1.6	0.8	13.5	2435.3	1337.6	583.3	2864.8	56.1	17.4	7.1	4.1	2.6	
7	1.4	0.8	19.0	2065.3	4200.5	564.2	1941.9	54.4	15.8	7.1	4.1	2.3	
8	1.4	2.3	30.5	1978.4	5846.5	503.2	1432.9	51.0	15.8	6.8	3.6	2.3	
9	1.2	4.1	32.6	2131.4	6381.9	462.1	1180.6	49.3	15.8	6.5	3.6	2.3	
10	1.2	3.9	22.3	2181.3	6904.3	498.6	1006.6	42.7	15.0	6.5	3.3	2.6	
11	1.0	3.6	14.3	1971.1	7237.5	803.3	871.5	42.7	13.5	6.5	3.6	2.6	
12	1.0	4.7	11.3	1726.1	7349.5	762.0	741.5	42.7	13.5	6.5	3.6	2.3	
13	1.0	7.5	10.9	1560.5	7200.3	1215.0	583.3	39.5	13.5	5.9	3.1	2.1	
14	0.8	7.9	42.7	1319.9	6904.3	1209.3	390.1	36.8	12.8	5.3	2.8	2.1	
15	0.8	6.8	57.8	990.1	6478.3	751.7	294.8	34.7	12.8	5.3	3.1	2.1	
16	0.8	6.2	101.1	935.7	5988.1	651.3	250.3	33.6	12.0	5.3	3.1	2.1	
17	0.8	5.3	316.2	845.1	5174.3	808.5	230.1	32.6	11.3	5.0	2.8	2.1	
18	1.0	4.7	762.0	691.1	4190.6	946.6	207.7	30.5	11.3	5.0	2.8	2.1	
19	1.0	5.0	503.2	457.6	3172.8	1095.5	180.4	28.5	11.3	5.0	2.8	2.3	
20	0.6	5.9	401.5	294.8	2048.8	1232.4	159.3	28.5	11.3	4.7	2.6	2.1	
21	0.8	9.6	756.9	233.0	1331.7	1290.6	143.1	26.6	10.9	4.7	3.1	1.9	
22	1.4	9.2	946.6	199.4	1045.3	1203.5	132.2	25.7	10.4	4.7	2.8	1.9	
23	1.4	8.7	952.0	172.4	914.2	2098.3	119.5	24.8	10.0	4.7	2.8	2.1	
24	1.4	24.0	1180.6	210.4	772.2	3965.9	109.2	24.0	10.0	4.7	2.8	2.1	
25	3.1	28.5	1993.1	161.9	617.1	4548.5	101.1	23.1	10.0	4.4	3.1	2.1	
26	3.1	27.5	3227.9	138.7	453.1	4823.7	103.1	22.3	9.2	4.4	3.1	2.3	
27	2.3	21.4	3907.8	143.1	466.6	5037.9	99.1	22.3	8.7	4.4	2.6	2.1	
28	2.1	15.8	3687.1	204.9	363.8	5060.5	99.1	21.4	8.7	4.7	2.3	2.1	
29	2.1	11.3	3136.1	188.5	866.2	4936.1	115.4	20.6	8.7	4.7	2.1	2.1	
30	1.6	8.7	3878.8	185.8	666.2	4723.0	103.1	19.8	8.3	4.7		2.1	
31		7.9		177.7	607.3		89.2		8.3	4.4		2.1	
TOTAL	42.5	248.1	26041.0	40016.9	89703.3	52780.9	32854.8	1184.5	399.7	176.5	93.3	69.0	243610.6 TONDAY
MEAN	1.4	8.0	868.0	1290.8	2893.6	1759.3	1059.8	39.4	12.8	5.6	3.2	2.2	
MAX	3.1	28.5	3907.8	4358.7	7349.5	5060.5	4220.2	81.5	19.0	7.9	4.4	2.6	7349.5
MIN	0.6	0.8	5.9	138.7	199.4	462.1	89.2	19.8	8.3	4.4	2.1	1.9	0.6

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-16020

STATION - DET UDOM, DET UDOM, UBON RATCHATHANI, M.80
STREAM - LAM DOM YAI
RIVER - LAM DOM YAI
RIVER SYSTEM - MUN

ROYAL IRRIGATION DEPARTMEN
THAILAND
HYDROLOGY DIVISION
1.33572
QS = 2.2096 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	2.1	1.6	17.2	170.6	233.9	1742.7	2081.7	2592.8	251.2	44.1	13.4	6.3	
2	2.1	1.6	15.5	149.9	208.6	1487.3	2924.0	2914.1	231.1	40.4	13.4	6.3	
3	2.1	1.6	14.8	144.8	205.8	1278.9	4145.4	2864.8	214.1	36.7	13.4	6.8	
4	2.1	1.6	13.4	120.0	236.8	1233.1	4960.7	2248.4	192.1	35.5	13.4	5.9	
5	2.1	1.6	17.2	160.2	189.4	1111.0	5047.1	1790.2	181.3	34.3	14.1	5.9	
6	1.9	1.6	10.0	117.6	144.8	870.9	4973.0	2048.8	168.0	34.3	14.1	5.4	
7	1.6	1.6	37.9	112.8	124.9	894.8	4948.4	2384.0	157.6	33.2	13.4	5.4	
8	1.4	1.6	46.6	117.6	105.0	853.0	4936.1	2282.1	147.3	33.2	10.7	5.4	
9	3.3	1.9	24.2	170.6	89.7	636.6	4813.5	1798.1	137.2	33.2	10.7	5.4	
10	2.8	3.3	12.7	192.1	82.3	1194.2	4618.9	1758.5	129.8	32.0	10.7	5.4	
11	2.6	3.6	12.0	157.6	86.0	2698.8	4275.4	1782.2	120.0	30.9	10.7	5.0	
12	2.6	3.1	24.2	120.0	89.7	3113.3	3614.9	1331.7	110.8	28.6	9.4	4.6	
13	2.6	3.1	65.2	86.0	75.0	2468.9	2631.2	841.2	95.3	28.6	9.4	4.1	
14	2.1	3.9	117.6	65.2	70.8	1862.0	2440.5	731.4	89.7	28.6	9.4	3.9	
15	1.6	9.4	101.1	54.4	73.6	1983.3	2327.8	696.1	86.0	27.5	8.7	3.9	
16	1.4	5.9	61.1	45.3	73.6	2421.6	1862.0	588.1	82.3	26.4	8.7	4.1	
17	1.6	3.9	184.0	39.1	66.6	2718.2	1594.4	499.2	78.6	25.3	8.7	3.9	
18	1.6	3.3	262.9	33.2	62.4	2747.4	1457.0	475.1	75.0	24.2	8.2	3.9	
19	1.6	4.6	233.9	33.2	84.1	2825.5	1540.6	900.8	70.8	23.3	7.8	3.9	
20	1.6	9.4	262.9	37.9	254.2	3073.2	1950.8	1398.5	68.0	22.4	7.8	3.9	
21	1.6	14.1	219.8	49.1	277.8	3295.3	2374.6	1246.1	62.4	21.5	7.8	3.9	
22	1.4	12.0	147.3	103.0	214.1	3325.9	2506.8	762.0	62.4	20.6	7.8	3.9	
23	1.4	8.7	120.0	124.9	139.7	3244.5	2355.9	597.7	59.7	22.4	7.8	3.9	
24	1.4	8.7	149.9	127.3	129.8	2864.8	2265.2	531.7	59.7	19.7	7.8	3.9	
25	1.4	10.0	260.0	170.6	178.6	2631.2	2355.9	487.1	58.4	18.9	7.8	3.9	
26	1.6	11.3	231.1	298.8	216.9	2535.4	2573.6	439.6	55.7	18.0	6.8	3.9	
27	1.6	26.4	173.3	271.8	385.8	2256.8	2963.6	389.6	55.7	18.0	6.3	4.1	
28	1.6	25.3	157.6	260.0	389.6	1822.0	3254.7	344.8	53.0	18.0	6.8	4.6	
29	1.6	25.3	197.5	265.9	549.9	1540.6	3254.7	308.5	53.0	16.3		4.1	
30	1.6	21.5	208.6	239.7	1233.1	1617.6	2384.0	277.8	53.0	14.8		3.6	
31		19.7		216.9	1750.6		2299.8		51.7	14.1		4.1	
TOTAL	56.0	251.2	3399.5	4256.1	8023.0	62348.7	95732.0	37310.9	3310.9	825.0	275.0	143.3	215931.7 TONS
MEAN	1.8	8.1	113.3	137.2	258.8	2078.2	3088.1	1243.7	106.8	26.6	9.8	4.6	
MAX	3.3	26.4	262.9	298.8	1750.6	3325.9	5047.1	2914.1	251.2	44.1	14.1	6.8	5047.1
MIN	1.4	1.6	10.0	33.2	62.4	636.6	1457.0	277.8	51.7	14.1	6.3	3.6	1.4

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - HIGHWAY BRIDGE, DET UDOM, UBON RATCHATHANI, M.80
STREAM - LAM DOM YAI
RIVER - MUN
RIVER SYSTEM - MUN

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 1
1.33572
QS = 2.2096 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.8	7.3	47.9	206.7	545.2	1005.9	1315.5	232.0	82.3	27.5	13.8	6.7	
2	4.8	7.9	53.0	212.3	480.3	2206.4	1118.7	320.8	77.9	27.5	13.8	6.7	
3	4.8	10.4	42.8	335.3	376.1	2198.1	1012.1	549.9	75.0	27.5	13.8	6.7	
4	4.5	14.5	35.5	383.6	302.9	1367.2	1087.1	453.1	72.2	26.4	13.8	7.3	
5	4.5	13.8	30.9	328.1	526.4	975.1	1806.1	372.3	70.8	26.4	13.8	7.9	
6	4.5	16.0	27.5	274.8	1367.2	845.1	2873.7	324.4	68.0	25.3	13.8	7.9	
7	4.8	14.5	26.4	588.1	2057.0	676.1	3394.8	310.0	57.0	25.3	13.8	7.3	
8	4.1	12.5	26.4	1036.9	2265.2	568.9	3264.8	274.8	57.0	23.1	11.8	5.6	
9	3.8	13.1	35.5	762.0	2164.7	666.2	2384.0	254.2	55.7	22.1	11.8	5.2	
10	4.1	14.5	47.9	489.4	3099.6	736.4	1487.3	234.9	54.4	22.1	11.8	5.6	
11	4.1	13.1	66.6	545.2	3526.1	588.1	1043.2	198.5	53.0	19.0	11.8	5.6	
12	4.1	12.5	63.8	711.1	3072.3	545.2	845.1	180.4	51.7	17.5	11.1	5.6	
13	4.5	12.5	63.8	568.9	2189.7	494.0	818.9	167.1	50.4	16.7	11.1	5.6	
14	4.8	13.1	498.6	418.0	1487.3	526.4	787.7	158.4	49.1	16.7	11.8	4.8	
15	4.5	13.1	2349.9	383.6	1176.3	480.3	726.3	160.6	46.6	16.7	11.8	4.8	
16	4.5	12.5	2740.3	402.6	1030.7	376.1	950.6	171.5	45.3	16.0	11.8	4.8	
17	4.1	30.9	1942.7	361.1	1157.0	292.3	1563.6	178.2	44.1	16.0	11.8	4.8	
18	4.1	24.2	1169.9	317.2	1150.6	267.9	1711.2	164.9	44.1	16.0	12.5	5.6	
19	4.1	37.9	1018.3	661.2	1018.3	324.4	1322.9	158.4	39.1	15.3	11.1	5.2	
20	3.8	45.3	1099.7	1958.9	839.8	882.1	892.8	152.0	36.7	15.3	7.9	4.5	
21	4.8	55.7	839.8	3255.6	751.7	2240.0	706.1	141.4	36.7	14.5	7.3	4.5	
22	4.5	70.8	1087.1	3898.2	726.3	2758.0	612.2	133.1	34.3	14.5	7.3	4.5	
23	5.2	57.0	1640.8	3563.8	617.1	3081.4	535.8	126.9	34.3	13.8	6.7	4.5	
24	5.6	87.8	1548.3	2713.8	480.3	2945.5	484.8	120.8	34.3	13.8	6.7	4.8	
25	5.6	145.6	1202.1	1766.4	426.3	2024.2	418.0	114.8	34.3	13.8	6.7	4.8	
26	5.6	118.8	782.6	1106.1	568.9	1300.8	357.4	106.9	34.3	13.8	6.7	5.2	
27	7.3	122.8	531.1	866.2	681.1	1080.8	306.5	99.2	34.3	13.8	6.7	6.1	
28	7.3	97.2	402.6	829.4	691.1	1563.6	261.0	97.2	30.9	13.1	6.7	9.2	
29	7.3	63.8	335.3	798.1	681.1	1750.6	232.0	95.3	29.7	13.1		12.5	
30	7.3	44.1	274.8	716.2	592.9	1533.0	223.5	89.7	29.7	13.1		9.2	
31		37.9		656.3	526.4		229.2		28.6	13.1		9.2	
TOTAL	147.8	1241.1	20031.8	31115.0	36575.8	36300.0	34772.8	6141.6	1491.8	568.8	299.5	192.7	168879.0 TONDAY
MEAN	4.9	40.0	667.7	1003.7	1179.8	1210.0	1121.7	204.7	48.1	18.3	10.7	6.2	
MAX	7.3	145.6	2740.3	3898.2	3526.1	3081.4	3394.8	549.9	82.3	27.5	13.8	12.5	3898.2
MIN	3.8	7.3	26.4	206.7	302.9	267.9	223.5	89.7	28.6	13.1	6.7	4.5	3.8

WATER YEAR 1979

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

RID COMPUTER CENTER

·47-160200

STATION - KABIN BURI, KABIN BURI, PRACHIN BURI, KGT.3
STREAM - PRACHIN BURI
RIVER - PRACHIN BURI
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMEN
THAILAND
HYDROLOGY DIVISION
1.19612
QS = 4.1971 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	7.4	134.9	3472.9	1567.3	693.3	7701.7	218.2	61.2	30.2	5.2	3.2	
2	0.0	7.4	140.3	4751.5	1687.3	584.6	7686.2	192.6	61.2	28.8	5.2	3.2	
3	0.0	26.0	98.6	5097.0	1917.9	548.7	7485.3	178.5	59.7	26.0	4.2	2.7	
4	0.0	30.2	80.4	5290.7	2327.5	590.3	7331.4	159.2	61.2	20.7	3.7	2.7	
5	0.0	41.6	65.9	5733.8	2912.8	595.9	7162.7	148.4	62.8	16.9	4.2	2.7	
6	0.0	30.2	58.1	5472.4	2861.5	590.3	6979.4	140.3	61.2	14.4	4.2	2.7	
7	0.0	22.0	55.0	5368.4	2728.9	557.7	6663.9	132.3	59.7	14.4	3.7	2.3	
8	0.0	26.0	58.1	5550.6	2199.3	535.3	5852.1	119.1	55.0	13.2	3.7	2.3	
9	0.0	58.1	85.3	5918.0	1719.6	652.9	4637.3	108.8	55.0	13.2	3.7	2.3	
10	0.0	44.5	198.2	5970.8	1776.3	870.7	3173.0	103.7	73.9	12.0	3.7	1.8	
11	0.6	33.0	206.7	5865.3	2882.0	787.1	2062.7	101.1	65.9	12.0	3.7	1.4	
12	1.4	23.4	192.6	5878.4	3850.7	595.9	1355.0	93.6	73.9	10.8	3.7	1.4	
13	0.0	26.0	233.6	5550.6	3642.7	508.8	998.6	88.6	73.9	10.8	3.7	1.0	
14	0.0	23.4	233.6	4866.3	3066.1	486.8	793.0	85.3	70.7	9.6	4.2	1.0	
15	0.0	34.4	309.2	3813.9	2871.8	447.7	652.9	83.6	70.7	9.6	4.2	1.0	
16	0.6	77.1	317.3	2779.8	2607.4	417.6	566.6	80.4	67.5	9.0	4.2	1.4	
17	0.6	70.7	253.2	2209.1	2179.7	473.7	508.8	77.1	64.4	9.0	4.2	1.4	
18	0.6	47.5	281.0	1768.2	2140.6	426.2	452.0	75.5	61.2	8.5	3.7	1.0	
19	1.0	31.5	229.8	1488.1	2406.9	504.4	413.3	72.3	58.1	8.5	3.7	0.6	
20	0.6	46.0	201.1	1270.0	2297.8	894.8	379.5	69.1	55.0	7.4	3.7	2.3	
21	0.6	69.1	192.6	1054.2	2043.3	980.1	346.1	67.5	52.0	6.8	3.2	1.0	
22	0.3	186.9	195.4	852.7	2082.1	1004.7	313.3	64.4	49.0	6.8	2.7	0.6	
23	0.3	192.6	153.8	681.7	1599.2	1029.4	281.0	64.4	44.5	6.8	2.3	0.6	
24	0.3	192.6	124.4	687.5	1224.0	1599.2	257.1	62.8	44.5	6.3	2.3	1.8	
25	0.6	261.1	116.5	931.2	986.3	4624.6	245.3	61.2	43.0	6.3	2.3	1.4	
26	37.2	383.7	119.1	1201.2	1048.0	6262.5	229.8	59.7	38.7	6.3	2.3	3.2	
27	22.0	430.4	225.9	1079.1	1023.2	6827.2	245.3	56.6	35.8	6.3	2.3	3.2	
28	12.0	297.0	793.0	816.8	906.9	6827.2	396.4	55.0	33.0	5.7	2.3	3.2	
29	9.0	241.4	2014.3	716.6	757.6	6827.2	305.1	53.5	30.2	5.7	2.3	2.7	
30	6.3	181.3	2476.8	846.7	664.4	7362.2	249.3	56.6	33.0	5.2		2.3	
31		140.3		1254.7	612.9		229.8		31.5	5.2		1.8	
TOTAL	94.0	3282.8	9844.7	98238.0	62591.9	55106.9	75953.8	2929.4	1707.4	352.4	102.5	60.2	310263.9 TONDA
MEAN	3.1	105.9	328.1	3168.9	2019.0	1836.9	2450.1	97.6	55.0	11.3	3.5	1.9	
MAX	37.2	430.4	2476.8	5970.8	3850.7	7362.2	7701.7	218.2	73.9	30.2	5.2	3.2	7701.7
MIN	0.0	7.4	55.0	681.7	612.9	417.6	229.8	53.5	30.2	5.2	2.3	0.6	0.0

WATER YEAR 1980

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

RID COMPUTER CENTER

'47-1602001

STATION - KABIN BURI, KABIN BURI, PRACHIN BURI, KGT.3
STREAM - PRACHIN BURI
RIVER - PRACHIN BURI
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW
1.19612
QS = 4.1971 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.10	0.11	0.51	28.45	42.91	65.56	52.08	31.66	2.90	0.87	0.40	0.27	
2	0.10	0.08	0.50	24.71	43.16	72.72	60.62	22.92	2.70	0.85	0.39	0.34	
3	0.13	0.07	0.40	22.13	43.16	72.56	64.06	17.52	2.59	0.83	0.37	0.59	
4	0.10	0.06	0.37	18.74	41.29	69.66	65.56	14.02	2.55	0.80	0.37	1.34	
5	0.11	0.09	0.56	15.43	39.18	68.14	68.75	11.63	2.43	0.78	0.39	0.90	
6	0.11	0.08	0.54	15.12	34.07	67.53	65.41	10.73	2.38	0.76	0.37	0.63	
7	0.09	0.07	0.45	13.16	27.74	66.77	59.43	11.35	2.29	0.73	0.37	0.56	
8	0.08	0.06	0.71	11.35	20.64	61.21	54.42	18.91	2.23	0.69	0.35	0.51	
9	0.10	0.05	0.90	11.42	16.23	53.98	50.01	15.43	2.17	0.66	0.35	0.63	
10	0.10	0.06	0.87	14.57	12.24	46.94	52.23	16.39	2.17	0.63	0.34	0.61	
11	0.09	0.06	0.71	11.71	10.29	51.16	51.42	13.32	2.12	0.61	0.32	0.49	
12	0.09	0.06	0.69	9.13	9.01	64.21	47.45	10.85	2.06	0.60	0.31	0.43	
13	0.09	0.09	1.18	7.40	8.83	69.20	41.91	9.80	2.06	0.59	0.34	0.43	
14	0.09	0.19	2.93	6.70	8.11	68.75	36.00	8.59	2.03	0.57	0.32	1.72	
15	0.07	0.18	2.86	5.85	8.89	68.75	31.66	7.52	1.92	0.56	0.31	1.58	
16	0.06	0.25	2.17	4.91	13.01	69.81	29.28	6.53	1.83	0.54	0.29	0.80	
17	0.06	0.28	2.00	4.75	12.24	68.44	29.79	5.96	1.80	0.54	0.27	0.61	
18	0.07	0.22	3.92	4.08	13.47	63.46	28.15	5.40	1.72	0.53	0.27	0.51	
19	0.06	0.22	4.70	3.81	16.71	61.51	26.02	4.91	1.61	0.51	0.26	0.46	
20	0.05	0.28	5.40	4.79	15.99	56.76	22.82	4.70	1.50	0.51	0.26	0.40	
21	0.05	0.23	7.63	5.62	16.15	51.68	20.39	4.50	1.42	0.50	0.26	0.37	
22	0.07	0.21	12.93	7.63	14.72	49.24	18.25	4.62	1.39	0.50	0.25	0.29	
23	0.25	0.18	20.81	11.42	12.70	47.58	26.12	4.87	1.45	0.49	0.22	0.28	
24	0.21	0.34	25.01	20.72	19.32	42.41	39.06	4.21	1.37	0.46	0.23	0.27	
25	0.18	0.31	24.51	28.56	37.22	39.43	42.66	3.76	1.21	0.45	0.23	0.26	
26	0.14	0.37	22.82	35.52	49.24	42.78	50.65	3.48	1.11	0.46	0.23	0.27	
27	0.11	0.66	19.48	41.41	48.73	41.66	52.37	3.29	1.08	0.45	0.27	0.35	
28	0.10	0.66	20.47	41.91	48.47	40.30	50.65	3.12	1.03	0.43	0.27	0.26	
29	0.19	0.61	24.41	45.68	49.88	40.17	49.75	3.01	0.98	0.43		0.22	
30	0.16	0.56	29.58	47.32	52.08	48.09	48.47	2.97	0.95	0.42		0.22	
31		0.49		45.17	56.76		43.29		0.90	0.40		0.21	
TOTAL	3.21	7.18	240.02	569.17	842.44	1730.46	1378.73	285.97	55.95	18.15	8.61	16.81	5156.69 100-TD
MEAN	0.11	0.23	8.00	18.36	27.18	57.68	44.48	9.53	1.80	0.59	0.31	0.54	
MAX	0.25	0.66	29.58	47.32	56.76	72.72	68.75	31.66	2.90	0.87	0.40	1.72	72.72
MIN	0.05	0.05	0.37	3.81	8.11	39.43	18.25	2.97	0.90	0.40	0.22	0.21	0.05

WATER YEAR 1981

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

RID COMPUTER CENTER

,47-1602001

STATION - KABIN BURI, KABIN BURI, PRACHIN BURI, KGT.3
STREAM - PRACHIN BURI
RIVER - PRACHIN BURI
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 1
1.19612
QS = 4.1971 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN HUNDRED TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	1.07	3.77	12.24	22.99	14.13	103.55	20.99	6.46	0.99	0.34	0.21	
2	0.14	0.82	2.60	11.73	21.71	17.28	100.04	23.37	5.55	0.94	0.33	0.21	
3	0.14	0.72	2.34	12.62	18.58	18.33	95.24	20.99	4.85	0.92	0.33	0.19	
4	0.14	0.58	1.82	11.86	17.52	19.37	91.51	13.99	4.37	0.86	0.32	0.19	
5	0.14	0.60	1.57	11.29	15.99	19.55	91.51	11.86	4.00	0.82	0.32	0.19	
6	0.14	0.63	5.46	14.64	20.09	17.44	85.11	10.60	3.63	0.79	0.30	0.20	
7	0.13	0.79	9.13	17.52	37.83	13.39	69.64	13.33	3.34	0.75	0.30	0.20	
8	0.16	1.16	5.87	17.28	62.41	10.92	53.72	14.80	3.05	0.72	0.30	0.19	
9	0.14	1.57	4.41	19.01	72.29	9.13	40.11	14.28	2.81	0.69	0.30	0.20	
10	0.17	1.52	3.52	22.26	83.39	8.47	32.15	15.99	2.63	0.66	0.34	0.19	
11	0.19	2.13	3.74	21.90	89.53	9.50	26.38	15.83	2.57	0.63	0.36	0.19	
12	0.19	2.08	8.65	21.63	90.27	11.80	20.90	12.37	2.51	0.60	0.45	0.18	
13	0.16	1.31	8.65	25.03	89.04	12.11	17.68	9.80	2.42	0.58	0.43	0.16	
14	0.14	1.42	9.86	23.09	85.35	13.52	16.55	8.23	2.31	0.57	0.46	0.16	
15	0.14	1.38	9.31	19.73	76.29	15.20	22.08	7.32	2.19	0.55	0.42	0.14	
16	0.14	1.11	11.86	16.07	67.03	13.99	26.98	6.69	2.11	0.52	0.34	0.14	
17	0.16	0.84	15.12	14.96	66.82	12.62	33.10	8.29	2.11	0.52	0.32	0.14	
18	0.18	0.72	12.69	16.71	67.03	13.14	32.51	8.89	2.02	0.49	0.32	0.14	
19	0.20	0.63	11.48	14.96	60.43	13.59	27.90	8.29	1.91	0.47	0.30	0.14	
20	0.19	0.68	10.73	17.36	48.25	14.96	23.27	8.83	1.85	0.47	0.29	0.13	
21	0.22	1.74	9.86	30.06	40.81	22.91	21.90	10.73	2.02	0.46	0.29	0.11	
22	0.23	2.67	22.18	40.81	38.22	36.00	20.36	9.99	1.82	0.45	0.26	0.11	
23	0.21	2.25	27.80	49.99	38.48	60.15	19.83	8.06	1.66	0.45	0.25	0.10	
24	0.18	2.25	28.10	58.75	36.85	82.66	18.09	6.90	1.52	0.43	0.25	0.09	
25	0.18	2.70	27.09	57.09	32.27	86.58	16.39	6.19	1.52	0.42	0.22	0.09	
26	0.46	2.57	28.10	47.93	27.39	90.27	14.34	5.91	1.39	0.40	0.22	0.09	
27	0.52	2.16	25.87	37.83	23.73	95.49	12.11	5.91	1.29	0.39	0.22	0.10	
28	0.50	5.38	23.91	30.47	23.18	101.39	10.11	6.51	1.24	0.37	0.21	0.11	
29	0.63	10.11	20.54	24.57	18.93	104.09	9.01	7.17	1.17	0.36		0.14	
30	0.86	10.11	15.67	21.35	15.83	105.18	8.71	7.42	1.07	0.36		0.21	
31		6.14		24.20	14.42		15.51		1.07	0.34		0.18	
TOTAL	7.06	69.84	371.70	764.94	1422.95	1063.16	1176.29	329.53	78.46	17.97	8.79	4.82	5315.50 100-TD
MEAN	0.24	2.25	12.39	24.68	45.90	35.44	37.94	10.98	2.53	0.58	0.31	0.16	
MAX	0.86	10.11	28.10	58.75	90.27	105.18	103.55	23.37	6.46	0.99	0.46	0.21	105.18
MIN	0.08	0.58	1.57	11.29	14.42	8.47	8.71	5.91	1.07	0.34	0.21	0.09	0.08

WATER YEAR 1979

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

RID COMPUTER CENTER

47-1602001

STATION - BAN WANG KHIAN, SA KAEO, PRACHIN BURI, KGT.10
STREAM - KHLONG PHRA SATHUNG
RIVER - KHLONG PHRA SATHUNG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.02974
QS = 6.8050 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	5.7	26.3	25.9	896.3	503.5	45.7	1812.6	30.7	14.6	9.9	6.1	5.3	
2	6.5	33.3	25.0	964.2	719.1	52.5	1971.7	29.0	13.8	9.1	5.7	4.9	
3	6.1	32.9	25.0	1019.1	815.5	60.5	1968.5	26.8	13.8	9.1	5.3	4.4	
4	5.7	23.3	22.8	1099.5	915.7	55.6	1840.0	25.4	13.3	9.1	5.3	4.4	
5	5.3	21.1	24.6	939.9	988.9	54.0	1069.3	24.1	13.3	9.1	5.3	4.0	
6	4.9	33.3	35.1	616.2	813.1	47.1	375.2	22.8	12.9	8.6	5.3	4.0	
7	4.4	47.1	47.5	785.1	476.1	56.6	210.9	23.3	12.9	8.6	5.7	4.0	
8	4.4	27.2	85.1	1184.5	364.1	111.1	146.5	23.3	13.3	8.2	5.3	4.0	
9	3.2	19.8	80.5	1299.5	304.5	161.4	109.0	22.8	14.2	7.4	5.3	3.6	
10	2.8	17.2	50.2	891.5	242.6	69.9	88.7	22.4	15.0	7.4	5.7	3.2	
11	2.8	18.1	56.6	414.5	405.1	48.0	77.2	22.0	14.6	7.4	5.7	3.2	
12	2.8	19.4	53.0	279.1	362.6	46.6	66.9	22.0	13.8	7.4	5.7	2.8	
13	3.2	40.4	43.1	251.0	224.0	44.0	58.5	21.5	13.8	7.4	5.7	2.8	
14	3.2	77.2	50.2	214.8	167.5	48.0	53.5	21.1	13.8	6.9	5.7	2.4	
15	3.2	53.0	44.4	172.4	130.4	75.5	50.6	20.7	13.3	6.9	5.7	2.4	
16	3.2	33.3	51.5	145.3	95.9	68.4	47.1	20.2	13.3	6.9	5.3	2.4	
17	3.6	24.1	55.6	128.1	83.3	55.6	45.7	20.2	13.3	6.9	4.9	2.4	
18	3.6	19.4	56.6	140.7	69.1	73.8	43.5	19.4	12.5	6.9	3.6	2.4	
19	6.5	15.9	64.6	166.3	63.9	52.5	41.3	18.5	12.0	6.9	2.8	2.0	
20	7.8	14.6	96.8	147.6	65.4	55.6	38.6	18.1	11.6	6.9	2.4	1.6	
21	7.4	12.9	61.2	107.9	71.4	90.5	37.3	17.6	11.6	6.9	2.4	3.2	
22	7.4	12.5	44.0	73.8	61.9	162.6	36.0	16.8	11.6	6.9	3.2	9.5	
23	7.8	37.8	47.5	79.6	52.5	165.0	34.7	16.8	11.6	6.9	3.2	8.6	
24	8.6	94.1	47.1	470.7	48.8	472.5	32.9	16.8	11.2	6.5	3.2	7.8	
25	10.3	166.3	47.5	554.0	46.6	1091.9	32.5	16.8	10.8	6.5	4.4	7.4	
26	10.3	91.4	46.2	375.2	44.4	1461.4	31.6	16.3	10.8	6.5	5.3	6.9	
27	12.5	92.3	52.0	220.1	43.5	1579.8	31.6	15.9	10.3	6.5	4.9	7.4	
28	13.8	88.7	44.8	176.1	43.1	1521.1	31.6	15.5	10.3	6.5	4.9	6.1	
29	15.5	50.2	251.0	229.3	44.0	1411.3	37.8	15.0	9.9	6.5	4.9	5.3	
30	25.4	37.3	624.5	392.5	54.0	1550.3	32.9	14.2	9.9	6.5		4.4	
31		29.0		465.7	46.2		30.3		9.9	6.5		4.0	
TOTAL	207.9	1309.4	2259.9	14900.4	8366.6	10788.8	10484.4	616.0	387.0	229.7	138.9	136.8	49826.0 TONDAY
MEAN	6.9	42.2	75.3	480.6	269.8	359.6	338.2	20.5	12.4	7.4	4.7	4.4	
MAX	25.4	166.3	624.5	1299.5	988.9	1579.8	1971.7	30.7	15.0	9.9	6.1	9.5	1971.7
MIN	2.8	12.5	22.8	73.8	43.1	44.0	30.3	14.2	9.9	6.5	2.4	1.6	1.6

WATER YEAR 1980

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

RID COMPUTER CENTER

47-16020C

STATION - BAN WANG KHIAN, SA KAEO, PRACHIN BURI, KGT.10
STREAM - KHLONG PHRA SATHUNG
RIVER - KHLONG PHRA SATHUNG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMEN
THAILAND
HYDROLOGY DIVISION NEW
1.02974
QS = 6.8050 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	4.0	2.4	18.9	337.2	239.2	999.0	722.8	253.1	42.4	19.8	12.0	29.5	
2	4.0	2.4	23.3	478.8	244.2	776.9	918.9	228.1	41.1	19.4	12.0	179.8	
3	3.6	3.6	52.0	350.8	470.4	450.4	1147.4	205.0	40.4	18.9	11.6	67.6	
4	3.6	3.6	29.5	203.8	462.0	374.4	1084.1	161.5	39.7	18.5	10.8	32.9	
5	4.9	3.2	20.2	133.8	477.0	536.7	670.2	140.1	38.4	18.1	10.3	25.4	
6	4.9	3.6	61.6	97.0	372.8	602.2	676.5	129.8	37.1	18.1	10.3	22.8	
7	4.9	3.6	80.4	79.6	221.9	410.6	781.4	139.0	36.4	17.6	10.3	39.1	
8	4.9	3.6	62.4	116.9	198.2	284.1	897.8	211.9	35.3	17.2	10.8	27.5	
9	4.4	2.8	48.2	139.0	161.5	229.3	870.4	254.5	34.1	16.3	12.0	19.4	
10	4.0	11.2	43.1	143.3	123.9	235.5	656.1	180.9	31.1	15.9	11.2	16.8	
11	4.0	15.9	83.4	110.0	200.3	563.4	559.6	182.0	31.1	15.5	10.3	15.5	
12	4.0	12.9	278.5	109.0	101.5	1276.0	390.1	152.9	30.0	14.6	9.1	120.9	
13	5.3	16.8	259.8	122.9	126.8	1634.8	269.0	122.9	29.5	14.2	8.2	178.7	
14	5.3	20.2	177.7	88.8	126.8	1807.3	220.6	102.4	29.0	13.8	7.8	52.7	
15	4.9	15.5	124.9	84.2	186.3	1414.4	177.7	91.5	29.0	13.8	7.4	39.1	
16	4.9	10.8	104.3	87.2	234.3	555.8	158.3	83.4	29.5	14.2	6.9	27.5	
17	4.4	12.0	258.4	63.9	309.4	293.9	150.8	76.6	29.0	13.8	6.9	23.7	
18	4.4	8.2	163.7	75.1	402.7	225.6	159.4	70.6	28.0	13.8	6.9	20.2	
19	7.4	5.7	122.9	86.4	274.3	253.1	133.8	53.4	26.5	13.8	6.5	15.9	
20	20.7	4.9	219.4	60.9	273.0	759.6	118.9	77.4	27.0	13.8	6.9	12.9	
21	15.5	5.3	487.5	61.6	279.9	1176.7	110.0	109.0	25.4	13.3	6.9	10.3	
22	11.6	7.8	705.6	76.6	191.7	1003.8	418.9	88.8	25.0	12.9	6.9	10.8	
23	9.9	12.9	707.7	74.4	123.9	735.7	914.1	73.6	24.1	12.5	6.5	9.5	
24	8.2	41.7	654.1	114.0	113.0	1084.1	1125.5	65.4	24.1	12.5	6.1	9.9	
25	6.9	53.4	676.5	316.4	156.1	1409.2	933.5	60.2	23.7	12.5	6.1	9.9	
26	6.1	39.1	425.5	353.9	525.5	1364.8	974.7	57.2	22.8	12.5	5.3	9.5	
27	5.3	32.3	326.8	390.1	928.6	733.6	1263.4	54.2	22.0	12.5	6.5	9.5	
28	4.9	25.0	516.4	457.1	1186.4	430.5	1454.3	51.2	21.1	12.5	12.0	10.3	
29	4.4	26.0	457.1	404.3	1137.6	292.5	1106.0	48.2	20.7	12.5		10.8	
30	3.6	39.1	310.8	388.5	646.1	656.1	475.3	44.5	19.8	12.5		9.9	
31		24.6		322.3	646.1		301.0		19.4	12.0		9.1	
TOTAL	184.9	470.1	7500.6	5927.8	11141.3	22569.9	19840.4	3569.3	912.7	459.3	244.5	1077.4	73898.3 TONDA
MEAN	6.1	15.1	250.0	191.2	359.4	752.3	640.0	118.9	29.4	14.8	8.7	34.7	
MAX	20.7	53.4	707.7	478.8	1186.4	1807.3	1454.3	254.5	42.4	19.8	12.0	179.8	1807.3
MIN	3.6	2.4	18.9	60.9	101.5	225.6	110.0	44.5	19.4	12.0	5.3	9.1	2.4

WATER YEAR 1981

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

RID COMPUTER CENTER

47-1602001

STATION - BAN WANG KHIAN, SA KAEO, PRACHIN BURI, KGT.10
STREAM - KHLONG PHRA SATHUNG
RIVER - KHLONG PHRA SATHUNG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW 1
1.02974
QS = 6.8050 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	6.5	24.4	166.8	188.3	147.3	229.0	2490.4	1450.3	72.9	18.9	12.1	8.2	
2	6.5	18.9	126.9	204.0	178.4	428.1	2150.4	628.6	63.1	19.3	12.1	8.6	
3	6.8	24.4	79.6	219.8	149.5	648.5	1100.5	331.2	59.4	19.3	11.8	8.9	
4	6.1	19.6	57.2	188.3	146.1	541.1	543.1	329.6	59.4	19.6	11.8	9.6	
5	10.0	20.0	44.5	159.9	424.7	339.0	436.8	293.1	57.9	19.3	11.8	9.6	
6	10.3	58.7	37.9	210.5	770.9	211.9	566.0	404.1	54.2	18.6	11.4	10.3	
7	11.0	132.3	36.4	222.4	770.9	171.4	508.7	321.8	51.2	17.8	11.4	11.0	
8	13.5	125.9	37.2	206.6	1109.9	151.8	328.0	424.7	47.5	16.8	11.0	10.7	
9	13.2	143.8	35.7	285.7	1450.3	206.6	250.1	661.7	45.3	16.4	11.0	10.7	
10	10.7	213.2	34.5	383.0	1336.3	259.6	232.9	535.4	44.5	15.7	11.4	9.6	
11	8.9	86.7	29.8	524.0	788.9	315.5	210.5	313.9	43.8	17.1	11.0	8.9	
12	7.2	98.3	26.3	504.9	447.3	285.7	171.4	218.4	40.1	17.5	11.8	7.9	
13	8.2	115.2	26.3	356.3	305.0	263.8	311.0	177.2	38.6	17.1	12.1	7.5	
14	7.9	78.9	40.8	262.4	410.8	198.7	1054.7	146.1	35.7	17.1	11.8	7.2	
15	10.3	52.0	52.7	176.0	531.6	154.1	1430.6	163.4	32.8	16.8	11.8	7.9	
16	13.2	40.8	69.1	136.9	357.9	124.8	1135.2	334.3	34.5	16.0	11.8	7.5	
17	13.5	33.3	58.7	147.3	247.5	100.3	701.4	268.0	32.8	16.0	11.0	6.8	
18	12.5	33.9	66.1	128.0	196.1	136.9	556.4	221.1	32.2	15.3	10.3	6.5	
19	11.0	108.8	69.1	108.8	151.8	548.8	495.4	337.4	32.8	15.0	10.3	6.1	
20	9.3	176.0	69.1	107.8	126.9	626.4	575.5	404.1	28.8	14.6	10.0	5.8	
21	7.9	101.4	302.0	339.0	131.2	840.2	457.7	255.4	28.8	14.3	9.3	5.1	
22	7.9	88.5	607.4	741.2	200.0	1871.8	309.5	178.4	27.3	14.3	9.3	4.7	
23	8.6	77.4	690.4	877.7	227.7	2815.5	252.8	140.4	25.2	14.3	9.3	4.7	
24	10.0	54.2	830.3	495.4	184.6	2921.8	334.3	117.3	25.2	13.9	8.9	4.4	
25	10.0	37.2	832.8	326.5	148.4	2808.4	278.3	103.5	25.2	13.9	8.6	4.4	
26	12.1	170.3	677.1	218.4	142.7	2652.6	218.4	97.3	24.4	13.5	8.9	4.0	
27	25.7	754.8	626.4	156.4	169.1	2267.5	146.1	101.4	24.0	13.2	8.6	4.4	
28	22.9	1003.0	461.2	120.5	143.8	1994.1	99.3	194.8	24.0	13.2	8.6	4.7	
29	54.9	583.5	318.6	148.4	150.7	2080.9	256.8	192.2	22.9	12.8		6.1	
30	28.8	263.8	231.6	182.1	153.0	2342.2	1119.4	120.5	21.5	12.8		10.0	
31		207.9		162.2	206.6		1632.6		19.6	12.5		9.6	
TOTAL	385.4	4947.1	6742.5	8488.6	11905.8	28536.9	20354.1	9465.5	1175.6	492.9	299.2	231.4	93025.3 TONDAY
MEAN	12.8	159.5	224.7	273.8	384.0	951.2	656.5	315.5	37.9	15.9	10.6	7.4	
MAX	54.9	1003.0	832.8	877.7	1450.3	2921.8	2490.4	1450.3	72.9	19.6	12.1	11.0	2921.8
MIN	6.1	18.9	26.3	107.8	126.9	100.3	99.3	97.3	19.6	12.5	8.6	4.0	4.0

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-160200

STATION - BAN KAENG, SA KAEO, PRACHIN BURI, KGT.12
STREAM - KHLONG PHRA PRONG
RIVER - KHLONG PHRA PRONG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.09512
QS = 3.0241 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.69	0.41	4.85	216.11	57.06	27.87	643.86	23.49	7.53	3.49	1.98	2.17	
2	0.78	0.41	4.44	301.91	70.88	28.28	666.05	18.78	7.53	3.36	1.98	1.51	
3	0.78	0.41	3.63	401.54	105.70	29.48	731.14	16.47	7.35	3.36	1.98	1.32	
4	0.78	0.46	3.36	505.05	125.79	35.18	785.19	14.94	6.99	3.26	1.89	1.23	
5	0.69	0.46	3.26	553.96	156.63	40.96	802.38	14.18	6.82	3.16	1.89	1.32	
6	0.52	0.41	3.06	558.65	165.52	43.04	740.48	13.80	6.82	3.06	1.79	1.32	
7	0.41	0.69	3.06	541.47	135.58	43.46	596.27	11.92	7.35	3.06	1.79	1.32	
8	0.41	1.23	5.41	533.68	93.95	78.22	442.48	11.48	8.43	2.86	1.89	1.32	
9	0.46	1.42	10.15	563.34	81.92	115.71	273.43	11.25	8.25	2.86	1.98	1.23	
10	0.46	1.70	13.42	575.87	89.36	98.06	143.06	11.48	8.79	2.86	2.37	1.23	
11	0.46	1.98	11.92	558.65	149.74	72.10	94.62	10.81	9.92	2.66	2.08	1.14	
12	0.69	1.98	9.92	505.05	223.89	55.40	70.88	10.59	8.61	2.66	1.79	1.14	
13	0.69	1.89	8.25	424.74	260.96	43.87	59.85	10.81	8.07	2.66	2.08	1.14	
14	1.05	1.42	26.67	305.32	253.07	33.54	53.19	10.81	8.07	2.66	2.08	1.14	
15	0.52	1.23	29.08	182.52	213.90	31.91	46.05	10.37	7.71	2.66	2.08	1.05	
16	0.46	0.69	17.24	110.31	172.66	31.91	41.79	10.15	6.82	2.47	1.98	1.05	
17	0.41	0.41	9.34	79.46	142.22	29.89	38.06	9.92	6.46	2.47	1.89	0.96	
18	0.35	0.35	7.17	64.89	132.26	27.87	35.18	9.52	5.83	2.37	1.89	1.14	
19	0.41	0.41	5.41	62.08	131.43	43.46	33.54	9.16	5.41	2.37	1.79	1.05	
20	0.52	1.32	4.71	58.73	137.24	88.12	31.10	8.97	4.99	2.37	1.79	0.96	
21	0.46	5.27	4.03	46.05	137.24	117.26	29.08	8.61	5.13	2.37	1.70	0.96	
22	0.46	6.82	4.03	38.06	123.46	116.48	27.47	8.43	5.27	2.37	1.70	0.96	
23	0.46	7.35	4.03	31.91	101.88	99.59	25.47	8.07	5.13	2.27	1.70	0.96	
24	0.52	50.98	3.90	31.51	73.93	137.24	23.49	7.71	4.71	2.27	1.70	0.87	
25	1.05	20.73	3.76	43.87	59.85	317.95	21.91	7.53	4.58	2.17	1.60	0.78	
26	0.87	27.47	3.63	42.20	51.53	503.55	21.52	7.35	4.17	2.08	1.51	0.78	
27	0.69	24.68	6.46	33.54	46.05	594.70	24.28	7.35	4.03	2.17	1.42	0.78	
28	0.52	18.01	67.83	31.10	40.54	643.86	24.68	7.53	4.03	1.98	1.51	0.78	
29	0.60	11.03	141.39	29.48	37.23	669.76	23.49	7.53	3.90	2.08	1.89	0.78	
30	0.52	8.07	172.66	28.28	33.54	656.80	23.09	7.53	3.76	2.08		0.78	
31		6.28		34.36	30.29		25.47		3.49	1.98		0.78	
TOTAL	17.69	205.97	596.07	7493.68	3635.29	4855.52	6598.54	326.54	195.95	80.50	53.72	33.95	24093.41 TONS
MEAN	0.59	6.64	19.87	241.73	117.27	161.85	212.86	10.88	6.32	2.60	1.85	1.10	
MAX	1.05	50.98	172.66	575.87	260.96	669.76	802.38	23.49	9.92	3.49	2.37	2.17	802.38
MIN	0.35	0.35	3.06	28.28	30.29	27.87	21.52	7.35	3.49	1.98	1.42	0.78	0.35

WATER YEAR 1980

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.

'47-1602001

RID COMPUTER CENTER

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW
1.09512
QS = 3.0241 QW

STATION - BAN KAENG, SA KAEO, PRACHIN BURI, KGT.12
STREAM - KHLONG PHRA PRONG
RIVER - KHLONG PHRA PRONG
RIVER SYSTEM - PRACHIN BURI

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.8	1.0	0.6	183.6	299.2	366.0	237.2	197.3	23.1	8.6	4.7	5.1	
2	0.8	3.6	0.7	171.7	269.3	457.9	401.5	149.4	22.1	8.4	4.7	5.3	
3	0.7	2.6	0.7	131.8	292.1	500.6	511.4	123.6	22.1	8.2	4.4	5.4	
4	0.6	1.8	1.1	84.6	322.6	478.9	596.0	98.5	21.1	8.1	4.4	5.6	
5	0.5	1.4	1.3	65.0	300.7	482.5	615.9	86.0	21.1	7.9	4.4	5.3	
6	0.5	1.2	1.1	60.7	206.4	496.9	566.2	74.9	20.5	7.7	4.4	5.0	
7	0.6	1.0	0.9	61.4	119.3	493.3	507.8	69.2	20.5	7.3	4.4	4.9	
8	0.8	0.8	0.7	57.4	81.7	504.2	466.6	63.2	20.2	7.2	4.3	8.1	
9	0.7	0.7	0.8	44.0	61.4	463.1	444.0	65.0	19.6	7.0	4.3	6.8	
10	0.7	0.7	1.3	37.5	48.2	375.7	424.9	69.8	18.6	6.8	4.4	5.9	
11	0.7	0.6	1.5	34.4	36.6	290.7	393.4	70.4	18.3	6.6	4.3	5.6	
12	0.7	0.6	1.8	30.3	31.7	292.1	342.0	70.4	17.7	6.6	4.4	5.4	
13	0.7	0.6	1.5	26.3	28.1	416.5	286.4	64.4	17.1	6.5	4.4	5.6	
14	0.7	0.6	5.6	25.6	24.8	556.3	262.7	56.3	16.5	6.3	4.4	5.3	
15	0.6	0.6	6.5	25.2	25.9	704.0	266.7	49.3	16.5	6.3	4.2	4.9	
16	0.5	0.6	7.3	28.1	33.5	755.7	275.0	44.5	16.5	5.9	4.2	4.6	
17	0.5	0.7	9.6	27.4	34.4	635.9	270.7	40.3	15.4	5.9	4.0	4.6	
18	0.5	1.0	16.2	24.8	29.5	511.4	265.4	36.2	13.8	5.6	3.9	4.0	
19	0.5	1.2	29.2	21.1	25.6	442.2	246.0	34.4	13.0	5.6	3.9	3.6	
20	0.5	1.2	42.1	19.6	25.6	390.2	219.7	33.5	12.5	5.6	3.8	3.5	
21	0.5	1.3	68.0	21.1	27.7	385.4	180.3	31.7	11.7	5.6	3.6	3.4	
22	0.5	1.3	149.4	22.7	30.3	404.8	155.9	31.2	11.4	5.4	3.8	3.4	
23	0.5	1.1	211.2	31.7	29.9	343.6	328.5	29.5	11.4	5.3	3.5	3.5	
24	0.5	0.9	211.2	52.5	37.5	241.0	322.6	27.7	11.0	5.3	3.4	3.6	
25	0.5	0.6	179.3	67.4	86.7	234.7	454.4	27.0	10.7	5.0	3.4	3.8	
26	0.5	0.6	122.8	109.0	180.3	268.0	532.5	25.9	10.3	5.0	3.4	3.6	
27	0.5	0.7	96.2	161.5	348.4	300.7	586.0	25.2	10.1	4.9	3.4	3.2	
28	0.5	0.8	124.5	230.9	471.8	227.2	631.9	24.5	9.2	4.7	3.9	3.2	
29	0.4	0.7	141.9	310.7	521.0	168.6	654.1	24.5	9.0	4.7		3.1	
30	0.4	0.5	167.6	334.5	493.3	179.3	560.2	24.1	9.0	4.6		3.0	
31		0.6		327.0	364.4		346.8		8.8	4.6		2.7	
TOTAL	17.4	31.6	1602.6	2829.5	4887.9	12367.3	12352.6	1767.9	478.8	193.2	114.3	141.0	36784.2 TONDAY
MEAN	0.5	1.0	53.4	91.2	157.6	412.2	398.4	58.9	15.4	6.2	4.0	4.5	
MAX	0.8	3.6	211.2	334.5	521.0	755.7	654.1	197.3	23.1	8.6	4.7	8.1	755.7
MIN	0.4	0.5	0.6	19.6	24.8	168.6	155.9	24.1	8.8	4.6	3.4	2.7	0.4

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN KAENG, SA KAEO, PRACHIN BURI, KGT.12
STREAM - KHLONG PHRA PRONG
RIVER - KHLON PHRA PRONG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.09512
QS = 3.0241 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	1.5	12.7	22.9	121.7	172.1	100.6	1162.2	203.6	68.1	10.8	5.1	5.8	
2	1.5	11.9	16.1	102.2	171.0	99.8	1150.0	180.8	59.3	9.9	4.9	5.3	
3	1.9	9.9	11.6	97.4	133.9	131.0	1118.3	93.4	52.3	9.4	4.9	5.1	
4	1.9	8.8	9.4	90.2	103.9	149.9	1014.5	90.2	46.4	9.2	4.9	4.9	
5	1.5	9.4	10.8	86.2	90.2	135.8	757.3	99.0	41.5	8.5	4.9	5.1	
6	1.5	7.9	26.2	91.0	117.2	113.5	439.8	100.6	38.0	7.9	4.9	4.7	
7	1.5	7.0	61.5	131.9	220.0	93.4	287.4	109.1	36.3	7.7	5.3	4.7	
8	1.4	6.0	68.9	160.2	343.5	74.3	215.1	131.0	33.6	7.9	6.2	4.5	
9	1.2	6.6	51.6	160.2	525.1	61.5	176.4	146.9	31.0	8.3	9.2	4.5	
10	1.0	6.8	35.2	168.8	683.2	60.1	147.9	154.0	30.1	8.3	8.3	4.5	
11	0.8	6.8	27.6	184.2	755.2	60.1	128.1	118.1	28.6	7.9	8.1	4.3	
12	0.8	7.2	25.2	195.6	721.0	56.4	108.2	98.2	26.7	7.7	8.1	4.3	
13	0.8	6.4	22.9	172.1	585.0	55.0	99.0	86.2	25.2	7.5	7.9	4.1	
14	1.0	6.0	20.6	143.8	422.5	60.8	103.1	74.3	23.8	8.1	7.2	3.9	
15	1.0	5.8	22.9	113.5	312.4	74.3	156.1	63.0	22.4	6.6	6.4	4.1	
16	0.8	5.8	94.2	86.2	250.2	122.6	193.3	56.4	21.5	6.8	6.2	4.1	
17	0.1	6.0	142.8	71.1	228.8	141.8	163.5	54.3	19.8	6.6	6.4	3.9	
18	1.0	6.0	172.1	65.2	225.0	145.8	121.7	60.1	18.9	6.4	6.2	3.7	
19	0.8	5.5	171.0	66.7	231.3	142.8	110.0	72.7	18.5	6.2	5.5	3.5	
20	1.0	5.8	135.8	63.0	220.0	160.2	110.8	86.2	17.2	6.6	6.0	3.3	
21	1.2	6.6	130.0	74.3	202.4	199.0	105.7	95.8	16.5	6.8	5.8	3.5	
22	1.2	7.0	153.0	113.5	207.0	330.0	95.8	95.8	15.3	6.6	5.5	4.7	
23	1.7	7.5	172.1	174.3	242.6	614.9	91.0	88.6	15.3	6.4	5.1	4.7	
24	8.8	9.9	201.3	187.6	279.1	958.7	91.8	87.8	15.3	6.2	5.3	4.1	
25	16.1	12.3	234.0	148.9	281.9	1167.1	93.4	80.6	15.3	6.8	5.3	3.9	
26	11.2	13.8	279.1	130.0	256.7	1254.5	87.0	72.7	14.6	5.8	5.3	3.7	
27	9.2	18.9	275.1	105.7	210.4	1272.5	77.4	63.0	13.8	4.9	5.3	4.5	
28	14.6	69.6	236.3	97.4	161.3	1236.9	70.4	67.4	13.4	5.5	5.8	4.3	
29	24.8	83.8	184.2	105.7	142.8	1196.8	62.3	78.2	11.6	5.5		3.7	
30	19.8	47.0	150.9	115.3	125.4	1172.0	65.9	79.0	11.6	5.5		3.9	
31		35.8		131.9	110.8		168.8		10.8	5.3		5.8	
TOTAL	131.1	460.0	3185.3	3755.8	8731.8	11442.1	8772.1	2887.0	812.7	223.6	170.0	135.1	40706.7 TONDAY
MEAN	4.3	14.8	106.1	121.1	281.6	381.4	282.9	96.2	26.2	7.2	6.0	4.3	
MAX	24.8	83.8	279.1	195.6	755.2	1272.5	1162.2	203.6	68.1	10.8	9.2	5.8	1272.5
MIN	0.1	5.3	9.4	63.0	90.2	55.0	62.3	54.3	10.8	4.9	4.9	3.3	0.1

WATER YEAR 1979

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN THUNG FAEK, KABIN BURI, PRACHIN BURI, KGT.14
STREAM - HUAI YANG
RIVER - HUAI YANG
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.49409
QS = 2.4641 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.45	0.63	1.57	90.08	15.34	10.87	160.10	1.77	0.72	0.49	0.26	0.45	
2	0.45	0.58	1.21	58.30	9.29	8.28	61.90	1.64	0.72	0.49	0.26	0.37	
3	0.45	0.58	1.04	63.72	9.29	5.35	40.76	1.57	0.72	0.49	0.26	0.33	
4	0.41	0.58	0.87	258.20	232.91	4.25	27.29	1.57	0.72	0.49	0.26	0.29	
5	0.41	0.54	0.82	50.21	39.46	3.73	20.21	1.51	0.72	0.45	0.26	0.26	
6	0.41	0.49	0.82	36.91	18.32	3.08	14.67	1.45	0.77	0.58	0.26	0.26	
7	0.37	0.49	0.93	56.52	12.09	2.92	11.48	1.38	0.77	0.67	0.26	0.26	
8	0.33	0.41	0.87	47.45	8.78	2.76	9.80	1.38	0.72	0.63	0.26	0.22	
9	0.29	0.45	1.45	25.20	7.31	3.08	8.28	1.38	0.72	0.45	0.37	0.22	
10	0.29	0.41	1.77	20.21	56.52	4.79	6.38	1.32	0.67	0.41	0.41	0.19	
11	0.77	0.41	1.90	153.99	79.41	8.78	5.07	1.26	0.67	0.41	0.45	0.16	
12	1.70	0.63	1.57	142.01	27.29	14.01	5.07	1.26	0.67	0.41	0.67	0.13	
13	1.15	0.93	2.04	67.43	27.29	5.93	4.79	1.21	0.63	0.41	0.63	0.13	
14	1.38	0.63	5.93	30.78	29.60	5.64	4.25	1.09	0.63	0.41	0.58	0.10	
15	1.38	0.58	3.24	16.02	27.29	4.79	3.73	1.09	0.63	0.37	0.49	0.08	
16	1.09	0.45	3.99	12.72	28.44	5.07	3.48	1.04	0.63	0.37	0.45	0.08	
17	0.93	0.41	2.61	14.01	23.16	4.25	3.08	1.04	0.63	0.37	0.41	0.08	
18	0.77	0.37	2.61	34.42	71.20	3.99	2.76	0.98	0.63	0.37	0.37	0.08	
19	0.67	0.37	1.70	16.02	46.08	9.29	2.61	0.93	0.67	0.37	0.33	0.49	
20	0.63	0.58	1.51	9.29	40.76	5.93	2.46	0.93	0.67	0.33	0.33	0.67	
21	0.58	8.28	1.32	5.93	166.28	5.93	2.04	0.93	0.67	0.33	0.33	0.63	
22	0.77	6.38	1.45	5.07	42.07	5.07	1.90	0.93	0.67	0.33	0.29	0.58	
23	1.09	4.25	1.32	24.17	21.18	4.79	1.90	0.93	0.63	0.33	0.29	0.54	
24	0.82	3.48	1.26	28.44	14.01	297.71	1.90	0.87	0.63	0.29	0.29	0.54	
25	0.77	3.73	1.57	10.33	11.48	400.81	1.90	0.87	0.58	0.29	0.29	0.54	
26	0.72	2.04	1.51	5.64	9.80	572.74	2.32	0.82	0.54	0.29	0.33	0.49	
27	0.67	1.32	1.64	4.25	9.29	160.10	5.35	0.82	0.54	0.29	0.45	0.45	
28	0.67	1.09	10.87	4.52	6.84	63.72	5.93	0.82	0.49	0.29	0.45	0.41	
29	0.63	0.98	42.07	10.87	5.64	284.34	3.08	0.82	0.49	0.29	0.41	0.41	
30	0.63	1.09	28.44	23.16	5.07	777.61	2.18	0.77	0.49	0.29		0.41	
31		1.38		19.26	4.25		1.90		0.49	0.26		0.41	
TOTAL	21.68	44.54	129.90	1345.13	1105.74	2689.61	428.57	34.38	19.93	12.25	10.70	10.26	5852.68 TONDAY
MEAN	0.72	1.44	4.33	43.39	35.67	89.65	13.82	1.15	0.64	0.40	0.37	0.33	
MAX	1.70	8.28	42.07	258.20	232.91	777.61	160.10	1.77	0.77	0.67	0.67	0.67	777.61
MIN	0.29	0.37	0.82	4.25	4.25	2.76	1.90	0.77	0.49	0.26	0.26	0.08	0.08

WATER YEAR 1980

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.

RID COMPUTER CENTER

47-16020

STATION - BAN THUNG FAEK, KABIN BURI, PRACHIN BURI, KGT.14
STREAM - LAM PHAYA THAN
RIVER - LAM PHAYA THAN
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMEI
THAILAND
HYDROLOGY DIVISION NEW
1.49409
QS = 2.4641 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.12	0.03	0.45	93.49	27.37	201.82	844.95	23.86	2.46	0.93	0.41	0.45	
2	0.12	0.03	2.92	26.16	55.08	90.81	497.07	19.55	2.46	0.82	0.41	0.63	
3	0.12	0.02	8.78	11.60	23.86	69.53	165.39	16.84	2.32	0.82	0.41	0.58	
4	0.12	0.02	3.99	6.38	25.04	88.03	892.58	15.27	2.32	0.72	0.41	0.54	
5	0.10	0.02	3.08	7.31	16.84	90.81	361.61	14.54	2.18	0.72	0.41	0.45	
6	0.14	0.02	3.73	5.07	9.80	96.20	150.82	16.84	2.18	0.63	0.41	0.41	
7	0.21	0.02	2.92	7.31	11.60	104.73	80.93	110.51	2.04	0.63	0.41	0.49	
8	0.22	0.02	1.77	5.93	12.28	49.32	61.04	34.24	2.04	0.58	0.41	0.54	
9	0.22	0.01	1.15	25.04	7.31	34.24	361.61	21.63	1.90	0.58	0.41	0.45	
10	0.21	0.01	1.04	19.55	5.35	69.53	711.67	16.08	1.90	0.58	0.37	0.41	
11	0.29	0.01	3.73	7.79	7.31	539.16	235.40	12.98	1.90	0.54	0.37	0.41	
12	0.58	0.01	13.75	4.79	19.55	413.96	88.03	10.87	1.77	0.49	0.33	0.41	
13	0.33	0.01	10.33	5.93	18.47	123.04	71.76	9.80	1.77	0.49	0.33	0.41	
14	0.21	0.01	4.52	4.25	7.79	59.03	88.03	8.28	1.64	0.49	0.33	0.41	
15	0.17	0.03	2.76	2.92	8.28	71.76	76.30	7.31	1.51	0.49	0.33	0.45	
16	0.17	0.37	2.61	2.46	12.28	43.87	143.70	6.84	1.51	0.49	0.29	0.45	
17	0.16	0.37	1.64	2.04	35.83	37.36	104.73	6.38	1.38	0.49	0.29	0.41	
18	0.14	0.33	1.77	1.90	35.83	150.82	63.07	5.93	1.38	0.49	0.29	0.37	
19	0.12	0.22	3.08	2.18	37.36	76.30	37.36	5.64	1.38	0.49	0.26	0.33	
20	0.10	0.21	1.38	2.18	83.27	71.76	27.37	5.35	1.38	0.49	0.26	0.29	
21	0.10	0.21	1.51	2.46	40.67	39.00	21.63	4.79	1.26	0.45	0.26	0.26	
22	0.10	0.26	1.64	3.99	23.86	27.37	96.20	4.52	1.26	0.45	0.29	0.26	
23	0.09	2.32	1.90	245.28	19.55	32.76	1392.39	3.99	1.15	0.45	0.33	0.26	
24	0.09	3.73	3.24	270.64	308.38	27.37	355.31	3.99	1.15	0.45	0.37	0.26	
25	0.08	7.31	22.77	180.41	1070.33	140.18	574.08	3.48	1.15	0.45	0.37	0.26	
26	0.07	3.24	14.54	116.39	201.82	53.13	690.20	3.48	1.04	0.41	0.45	0.26	
27	0.06	3.48	13.75	74.02	63.07	28.52	129.81	3.08	1.04	0.41	0.41	0.26	
28	0.05	1.77	8.78	32.76	35.83	331.20	69.53	3.08	0.93	0.41	0.93	0.26	
29	0.03	2.04	165.39	61.04	25.04	1584.51	47.45	2.92	0.93	0.41		0.26	
30	0.03	1.26	270.64	57.04	161.71	711.67	35.83	2.76	0.93	0.41		0.26	
31		0.72		28.52	349.04		29.77		0.93	0.41		0.26	
TOTAL	4.55	28.11	579.56	1316.83	2759.80	5457.79	8505.60	404.83	49.19	16.67	10.55	11.75	19145.21 TON
MEAN	0.15	0.91	19.32	42.48	89.03	181.93	274.37	13.49	1.59	0.54	0.38	0.38	
MAX	0.58	7.31	270.64	270.64	1070.33	1584.51	1392.39	110.51	2.46	0.93	0.93	0.63	1584.51
MIN	0.03	0.01	0.45	1.90	5.35	27.37	21.63	2.76	0.93	0.41	0.26	0.26	0.01

WATER YEAR 1981

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.

RID COMPUTER CENTER

47-1602001

STATION - BAN THUNG FAEK, KABIN BURI, PRACHIN BURI, KGT.14
STREAM - LAM PHAYA THAN
RIVER - LAM PHAYA THAN
RIVER SYSTEM - PRACHIN BURI

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.49409
QS = 2.4641 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.08	0.90	0.75	5.88	51.01	45.69	43.96	14.01	4.79	1.90	0.29	0.13	
2	0.07	0.60	0.47	6.79	34.06	38.91	34.06	14.01	4.47	2.04	0.29	0.16	
3	0.10	0.41	0.41	7.25	25.52	18.11	32.58	24.17	4.16	2.04	0.29	0.16	
4	0.13	0.54	0.75	5.11	20.29	13.04	84.45	19.19	3.86	2.04	0.29	0.19	
5	0.13	2.04	4.16	25.52	17.05	26.88	220.43	18.11	3.86	2.04	0.29	0.19	
6	0.10	0.90	18.11	72.32	177.52	13.04	79.53	37.27	3.86	2.04	0.29	0.22	
7	0.08	0.90	5.88	49.22	1171.16	8.72	43.96	61.36	3.28	2.04	0.29	0.16	
8	0.08	0.60	2.32	37.27	933.98	7.25	34.06	40.57	3.28	2.04	0.29	0.16	
9	0.10	0.67	1.51	57.15	211.38	6.33	34.06	24.17	3.28	2.04	0.29	0.13	
10	0.08	0.98	4.16	57.15	763.83	6.79	32.58	18.11	3.28	1.51	0.33	0.13	
11	0.07	0.47	106.26	31.12	211.38	11.17	20.29	15.00	3.28	0.90	0.29	0.10	
12	0.07	0.47	135.58	165.39	181.63	11.17	16.02	13.04	3.00	0.82	0.47	0.08	
13	0.07	0.29	157.76	72.32	234.24	32.58	13.04	12.09	3.00	0.75	0.33	0.07	
14	0.08	0.26	79.53	29.69	177.52	185.76	12.09	12.09	3.00	0.75	0.33	0.07	
15	0.13	0.19	142.85	19.19	784.04	77.10	11.17	12.09	2.46	0.67	0.33	0.06	
16	0.19	0.16	74.70	13.04	67.87	26.88	198.36	16.02	2.32	0.60	0.33	0.06	
17	0.16	0.13	47.45	34.06	77.10	37.27	319.35	17.05	2.18	0.60	0.29	0.06	
18	0.13	0.37	35.66	14.01	65.67	92.03	112.46	14.01	2.04	0.54	0.29	0.06	
19	0.10	4.47	18.11	10.27	42.26	28.27	55.08	10.27	2.04	0.47	0.29	0.05	
20	0.10	5.11	9.75	215.89	55.08	28.27	35.66	10.27	1.90	0.47	0.33	0.05	
21	0.16	5.88	248.32	754.03	139.20	81.98	57.15	10.27	1.90	0.47	0.37	0.05	
22	0.22	2.73	177.52	248.32	121.96	325.26	74.70	8.72	1.77	0.47	0.33	0.04	
23	0.13	2.04	118.77	349.23	79.53	361.42	49.22	7.73	1.77	0.47	0.19	0.03	
24	0.10	5.88	43.96	132.00	55.08	112.46	38.91	6.79	1.77	0.47	0.16	0.03	
25	0.10	3.00	67.87	59.24	35.66	253.07	32.58	6.79	1.77	0.47	0.16	0.03	
26	0.22	1.64	53.03	38.91	26.88	173.45	25.52	9.75	1.77	0.41	0.19	0.02	
27	0.90	1.38	24.17	29.69	38.91	150.24	22.85	20.29	1.77	0.41	0.16	0.02	
28	0.82	1.51	12.09	19.19	38.91	146.53	21.56	15.00	1.77	0.37	0.16	0.02	
29	0.67	0.98	7.73	18.11	22.85	128.44	21.56	8.22	1.77	0.33		0.08	
30	0.60	0.82	5.44	313.48	17.05	67.87	20.29	5.88	1.77	0.33		0.33	
31		1.15		604.94	15.00		17.05		1.77	0.33		0.75	
TOTAL	5.97	47.47	1605.07	3495.78	5893.61	2515.98	1814.58	502.34	82.94	30.83	7.94	3.69	16006.18 TONDAY
MEAN	0.20	1.53	53.50	112.77	190.12	83.87	58.53	16.74	2.68	0.99	0.28	0.12	
MAX	0.90	5.88	248.32	754.03	1171.16	361.42	319.35	61.36	4.79	2.04	0.47	0.75	1171.16
MIN	0.07	0.13	0.41	5.11	15.00	6.33	11.17	5.88	1.77	0.33	0.16	0.02	0.02

WATER YEAR 1979

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.
REMARKS	POOR DATA ON NOV 8,1981 AND NOV 9, 1981

RID COMPUTER CENTER

47-1602001

STATION - BAN SA YAI NON, THA YANG, PHETCHABURI, B.6
STREAM - HUAI MAE PRACHAN
RIVER - HUAI MAE PRACHAN
RIVER SYSTEM - HUAI MAE PRACHAN

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION
1.63053
QS = 1.8887 QW

WATER YEAR - 1979

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1979 TO MARCH 31, 1980

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	0.595	0.202	0.008	63.684	0.152	0.008	0.008	0.000	0.000	
2	0.000	0.000	0.000	0.482	0.177	0.008	87.895	0.152	0.008	0.008	0.000	0.000	
3	0.000	0.006	0.000	0.655	0.152	0.008	161.384	0.120	0.008	0.006	0.000	0.000	
4	0.000	0.000	0.000	0.782	0.152	5.199	124.671	0.064	0.008	0.006	0.000	0.000	
5	0.000	0.000	0.000	0.718	0.142	3.986	54.592	0.036	0.008	0.006	0.000	0.000	
6	0.000	0.000	2.210	0.655	0.120	3.048	30.890	0.030	0.008	0.008	0.000	0.000	
7	0.000	0.000	0.202	0.537	0.142	6.734	19.307	0.024	0.008	0.008	0.000	0.000	
8	0.000	0.000	0.036	0.482	0.056	9.601	13.368	0.015	0.008	0.006	0.000	0.000	
9	0.000	0.000	0.015	0.429	0.024	5.199	8.975	0.008	0.008	0.006	0.000	0.000	
10	0.000	0.000	0.010	0.378	0.024	3.273	6.734	0.008	0.010	0.006	0.000	0.000	
11	0.000	0.000	0.010	0.378	0.049	1.894	5.199	0.008	0.010	0.006	0.000	0.000	
12	0.006	0.000	0.010	0.429	0.030	0.964	3.506	0.008	0.010	0.006	0.000	0.000	
13	0.006	0.006	0.177	0.482	0.036	0.655	3.743	0.008	0.008	0.000	0.000	0.000	
14	0.006	0.000	0.120	0.482	0.030	0.429	2.049	0.008	0.008	0.000	0.000	0.000	
15	0.006	0.000	2.617	0.482	0.030	0.378	1.742	0.008	0.008	0.000	0.000	0.000	
16	0.006	0.000	1.595	0.537	0.019	0.429	0.849	0.008	0.008	0.000	0.000	0.000	
17	0.006	0.000	0.782	0.537	0.019	0.482	0.718	0.008	0.006	0.000	0.000	0.000	
18	0.006	0.000	0.782	0.537	0.036	0.378	0.537	0.008	0.000	0.000	0.000	0.000	
19	0.000	0.000	0.964	0.537	0.030	1.085	0.330	0.008	0.006	0.000	0.000	0.000	
20	0.006	0.000	8.975	0.537	0.082	0.964	0.256	0.008	0.008	0.000	0.000	0.000	
21	0.006	0.000	6.336	0.537	0.036	0.718	0.152	0.008	0.008	0.000	0.000	0.000	
22	0.006	0.000	3.506	0.537	0.015	1.085	0.100	0.008	0.008	0.000	0.000	0.000	
23	0.006	0.000	2.617	0.482	0.008	5.569	0.228	0.008	0.008	0.000	0.000	0.000	
24	0.006	0.000	1.742	0.429	0.008	4.491	0.256	0.008	0.010	0.000	0.000	0.000	
25	0.006	0.000	1.211	0.330	0.008	7.984	0.056	0.008	0.010	0.000	0.000	0.000	
26	0.006	0.000	1.085	0.429	0.008	6.336	0.015	0.008	0.008	0.000	0.000	0.000	
27	0.006	0.000	0.849	0.378	0.008	4.491	0.049	0.008	0.008	0.000	0.000	0.000	
28	0.006	0.000	0.782	0.330	0.008	5.199	0.049	0.008	0.008	0.000	0.000	0.000	
29	0.006	0.000	0.718	0.285	0.008	23.312	0.082	0.008	0.008	0.000	0.000	0.000	
30	0.000	0.000	0.655	0.256	0.008	91.182	0.082	0.008	0.008	0.000		0.000	
31		0.000		0.228	0.008		0.056		0.008	0.000		0.000	
TOTAL	0.021	0.007	37.893	14.721	1.527	194.960	591.413	0.626	0.105	0.024	0.000	0.000	841.259 TONDAY
MEAN	0.005	0.005	1.267	0.479	0.054	6.503	19.082	0.025	0.008	0.005	0.000	0.000	
MAX	0.006	0.006	8.975	0.782	0.202	91.182	161.384	0.152	0.010	0.008	0.000	0.000	161.384
MIN	0.000	0.000	0.000	0.228	0.008	0.008	0.015	0.008	0.000	0.000	0.000	0.000	0.000

WATER YEAR 1980

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.

REMARKS POOR DATA ON NOV 8,1981 AND NOV 9, 1981

RID COMPUTER CENTER

47-1602001

STATION - BAN SA YAI NON, THA YANG, PHETCHABURI , B.6
STREAM - HUAI MAE PRACHAN
RIVER - HUAI MAE PRACHAN
RIVER SYSTEM - PHET

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION

1.63053

QS = 1.8887 QW

WATER YEAR - 1980

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1980 TO MARCH 31, 1981

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.000	0.000	0.000	3.904	6.585	1.595	13.697	10.905	1.595	0.446	0.300	0.008	
2	0.000	0.000	0.000	3.350	3.904	1.595	75.479	9.601	1.595	0.412	0.285	0.006	
3	0.000	0.000	0.000	3.085	3.085	1.318	50.470	6.585	1.318	0.395	0.019	0.000	
4	0.000	0.000	0.000	1.894	2.343	1.187	44.680	5.710	1.318	0.395	0.285	0.000	
5	0.000	0.000	0.000	1.894	1.894	1.187	33.192	5.291	1.318	0.378	0.285	0.000	
6	0.000	0.000	10.905	1.742	1.595	1.318	24.962	4.491	1.187	0.346	0.019	0.000	
7	0.000	0.000	19.763	1.318	1.453	1.318	18.780	4.193	1.187	0.346	0.010	0.000	
8	0.000	0.000	23.885	1.061	1.453	1.187	15.184	3.350	1.061	0.285	0.010	0.000	
9	0.000	0.000	27.430	1.061	1.453	0.941	11.579	3.904	0.941	0.285	0.015	0.000	
10	0.000	0.000	72.931	2.829	1.453	0.718	8.474	3.904	0.826	0.015	0.015	0.000	
11	0.000	0.000	19.763	2.343	1.742	0.615	7.039	21.786	0.556	0.300	0.015	0.000	
12	0.000	0.000	13.697	1.595	1.453	0.595	5.710	44.680	0.519	0.019	0.010	0.000	
13	0.000	0.000	19.763	1.318	92.843	0.615	3.350	26.057	0.519	0.019	0.015	0.000	
14	0.000	0.000	15.184	0.941	54.479	0.576	2.581	18.780	0.412	0.019	0.010	0.000	
15	0.000	0.000	52.458	0.826	36.229	0.615	7.984	12.270	0.300	0.015	0.010	0.000	
16	0.000	0.000	72.931	0.595	19.763	0.576	173.772	9.601	0.378	0.015	0.010	0.000	
17	0.000	0.000	34.696	0.576	20.765	0.519	83.319	7.506	0.412	0.015	0.010	0.000	
18	0.000	0.000	12.975	0.576	19.763	0.500	48.510	7.039	0.412	0.015	0.010	0.000	
19	0.000	0.000	12.270	0.556	16.874	2.113	37.786	5.710	0.412	0.010	0.010	0.000	
20	0.000	0.000	15.951	0.537	22.826	1.742	34.696	4.491	0.412	0.010	0.008	0.000	
21	0.000	0.000	10.245	0.519	13.697	1.318	34.696	3.904	0.412	0.010	0.008	0.000	
22	0.000	0.000	7.506	0.537	8.975	1.061	31.711	3.904	0.412	0.010	0.008	0.000	
23	0.000	0.000	27.430	0.500	6.585	1.061	36.229	3.624	0.395	0.010	0.008	0.000	
24	0.000	0.000	15.951	0.519	4.491	1.061	58.605	2.829	0.378	0.010	0.008	0.000	
25	0.000	0.000	65.496	0.500	3.085	0.826	96.339	1.742	0.362	0.010	0.008	0.000	
26	0.000	0.000	24.962	0.576	1.894	1.061	86.000	1.742	0.412	0.015	0.008	0.000	
27	0.000	0.000	13.697	0.595	1.453	1.187	48.510	1.595	0.595	0.285	0.008	0.000	
28	0.000	0.000	8.975	0.718	1.061	4.193	34.696	1.453	0.482	0.019	0.008	0.000	
29	0.000	0.000	5.710	1.318	1.187	5.710	26.057	1.453	0.429	0.285		0.000	
30	0.000	0.000	4.884	2.343	1.595	4.491	19.763	1.595	0.429	0.285		0.000	
31		0.000		10.245	1.595		14.434		0.429	0.300		0.000	
TOTAL	0.000	0.000	609.355	50.227	357.441	42.659	1188.153	239.573	21.264	4.835	1.288	0.008	2514.764 TONDAY
MEAN	0.000	0.000	20.316	1.625	11.535	1.426	38.392	7.990	0.690	0.160	0.050	0.005	
MAX	0.000	0.000	72.931	10.245	92.843	5.710	173.772	44.680	1.595	0.446	0.300	0.008	173.772
MIN	0.000	0.000	0.000	0.500	1.061	0.500	2.581	1.453	0.300	0.010	0.008	0.000	0.000

WATER YEAR 1981

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.
REMARKS	POOR DATA ON NOV 8,1981 AND NOV 9, 1981

RID COMPUTER CENTER

47-16021

STATION - HIGHWAY BRIDGE, THA YANG, PHETCHABURI, B.6
STREAM - HUAI MAE PRACHAN
RIVER - PHET
RIVER SYSTEM - PHET

ROYAL IRRIGATION DEPARTMENT
THAILAND
HYDROLOGY DIVISION NEW
1.63053
QS = 1.8887 QW

WATER YEAR - 1981

SUSPENDED SEDIMENT, IN TONS PER DAY, WATER YEAR APRIL 1, 1981 TO MARCH 31, 1982

DATE	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	ANNUAL
1	0.0	0.0	6.3	0.2	0.8	0.0	17.8	211.9	94.0	11.9	7.9	2.8	
2	0.0	0.0	2.1	0.2	0.6	0.0	13.2	100.7	79.1	11.9	7.9	2.8	
3	0.0	0.0	1.2	0.2	0.2	0.0	7.3	773.4	67.9	11.9	7.9	2.8	
4	0.0	0.0	0.6	0.0	0.2	0.0	4.2	937.1	58.4	11.9	7.9	2.8	
5	0.0	0.0	0.3	0.0	0.1	0.7	2.8	354.7	49.4	11.9	7.9	2.8	
6	0.0	0.0	0.3	0.0	0.1	0.4	1.7	182.5	43.0	11.9	7.3	2.8	
7	0.0	0.0	0.2	0.0	0.1	1.4	1.4	3082.4	39.0	11.9	7.3	2.8	
8	0.0	0.0	0.2	0.0	0.1	0.7	1.4	*******	37.0	11.9	7.3	2.6	
9	0.0	0.0	0.2	0.0	0.1	0.3	2.3	*******	33.2	11.3	7.3	2.6	
10	0.0	0.0	0.1	0.0	0.1	0.1	1.1	10807.2	31.3	11.9	7.9	2.6	
11	0.0	0.0	0.1	0.0	0.1	0.0	116.1	2633.2	29.5	11.9	7.3	2.6	
12	0.0	0.0	0.1	0.0	0.1	0.0	41.0	1186.2	27.8	11.3	4.5	2.6	
13	0.0	0.0	0.0	0.0	0.1	0.0	182.5	711.3	25.0	11.3	4.5	2.6	
14	0.0	0.0	0.0	0.0	0.0	0.0	258.0	494.4	23.9	11.3	4.2	2.3	
15	0.0	0.0	0.0	0.0	0.0	0.0	1457.5	392.8	23.9	10.7	3.9	2.3	
16	0.0	0.0	0.0	0.0	2.3	0.0	548.5	402.5	22.8	10.7	3.9	2.3	
17	0.0	0.0	0.0	0.0	3.1	0.0	773.4	327.2	22.8	10.7	3.9	2.1	
18	0.0	0.0	0.0	0.0	2.1	0.0	2453.4	266.3	21.8	10.1	3.9	2.1	
19	0.0	0.0	0.0	0.0	1.4	0.0	2193.0	266.3	20.8	10.1	3.9	2.1	
20	0.0	0.0	0.0	0.0	1.1	0.0	1186.2	218.0	18.8	10.1	3.9	2.1	
21	0.0	0.0	0.4	0.8	0.7	0.9	452.6	243.3	18.8	10.1	3.6	1.9	
22	0.0	0.0	1.2	0.9	0.5	0.7	188.0	205.8	17.8	10.1	3.3	1.9	
23	0.0	0.0	0.9	1.2	0.3	0.3	94.0	182.5	16.9	9.5	3.3	0.0	
24	0.0	0.4	0.7	0.7	0.1	0.1	56.1	171.8	16.9	9.5	3.3	0.0	
25	0.0	1.2	0.5	0.5	0.1	0.3	37.0	151.2	16.9	9.0	3.3	0.0	
26	0.0	3.9	0.3	0.4	0.0	0.5	22.8	124.0	47.2	9.0	3.1	0.0	
27	0.0	1.7	0.2	0.4	0.0	0.3	15.9	100.7	15.2	9.0	3.1	1.9	
28	0.0	1.3	0.1	0.7	0.0	0.3	11.9	132.2	11.9	9.0	2.8	1.9	
29	0.0	0.9	0.2	1.2	0.0	15.2	10.7	182.5	11.9	8.4		1.9	
30	0.0	0.7	0.2	1.7	0.0	6.8	26.1	124.0	11.9	8.4		1.9	
31		1.1		1.3	0.0		266.3		11.9	7.9		1.9	
TOTAL	0.0	11.2	16.4	10.4	14.4	29.0	10444.1*******		966.7	326.5	146.3	63.8	********* TONDA
MEAN	0.0	0.3	0.5	0.3	0.4	0.9	336.9*******		31.1	10.5	5.2	2.0	
MAX	0.0	3.9	6.3	1.7	3.1	15.2	2453.4	10807.2	94.0	11.9	7.9	2.8	10807.2
MIN	0.0	0.0	0.0	0.0	0.0	0.0	1.1*******		11.9	7.9	2.8	0.0	*********

พิมพ์ที่ ห้างหุ้นส่วนจำกัด โรงพิมพ์ยูไนเต็ดโปรดักชั่น 185 ซอยพุทธโอสถ ถนนนเรศ กรุงเทพฯ 10500
โทร. 2330317, 2344293 นายชวลิต ไชยธีรภิญโญ ผู้พิมพ์ผู้โฆษณา