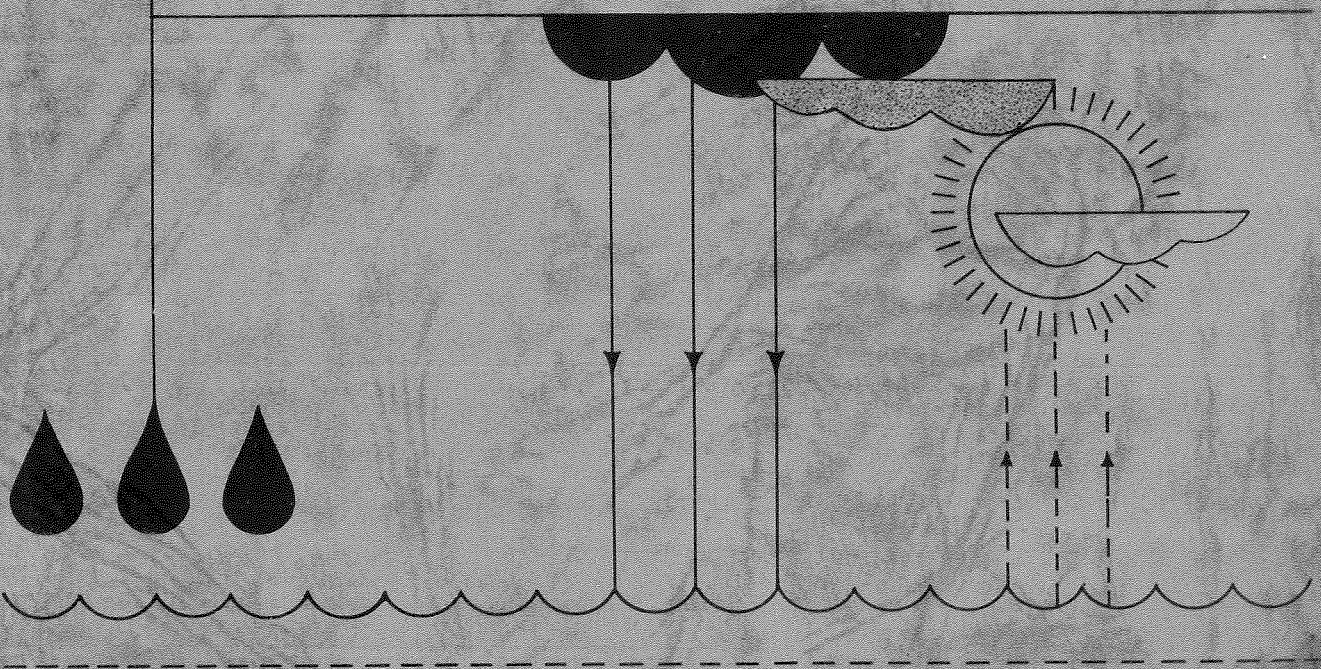


ฉบับที่ 06

THAILAND HYDROLOGICAL YEARBOOK

WATER YEAR 1960-1962

VOLUME 6



HYDROLOGY SECTION
ROYAL IRRIGATION DEPARTMENT
BANGKOK, THAILAND

Hydrology No. 303/73

THAILAND

HYDROLOGICAL YEARBOOK

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WATER YEAR 1960-1962

HYDROLOGY SECTION

ROYAL IRRIGATION DEPARTMENT

BANGKOK, THAILAND

FOREWORD

The programme of yearbook publication was initiated in the year 1966. Great efforts have been made in the editing as well as the setting up of standard for yearbook publication. The previously processed data have been reviewed and arranged into serial order or volumes to be published. The first issue was Volume 8, published in 1968, contained the flow data as of water year 1965. The second issue was Volume 7, published in 1969 and contained the flow data as of water years 1963 and 1964.

The Volume 6 of the series is the third issue which contains the flow data for water year 1960 to 1962. The number of flow data processed from actual calibrating sites is 36, 32 and 29 for the year 1960, 1961 and 1962 respectively, while the rest is of computed flow based on the application of mean daily gage height to the stage-discharge relationship of previously or subsequently calibrated at such sites. Remarks on such application are made under each station description. The total flow data contained in this issue are 213, of which the data for each year is 70, 71 and 72 for the year 1960, 1961 and 1962 respectively.

Damrong Jaraswathana
Chief of Hydrology Section
October 1973

ACKNOWLEDGEMENT

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

We also wish to express our sincere appreciations to the Chief of the Reproduction and Publication Section, Planning Division, and his efficient staff whose kind assistance and co-ordinated efforts have contributed to the success of this Volume 6 issue.

Hydrology Section
October 1973

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** * * * *

METHOD OF INVESTIGATION AND DATA PROCESSING

DEFINITION OF TERMS AND ABBREVIATIONS

Staff gaging station is a place on a stream bank where a staff gage is installed for manually observing water level; usually frequency of observation varies from 1 to 5 times of equal interval in the daytime. At some specific stations where streamflow measurement camps are situated, the observation of water level by night is also made usually 1 to 3 times of equal interval. The standard bench-mark of the Hydrology Section is also established nearby the gage site. The 1.00-m. standard enamelled staff gage sections are used with zero reading specified in meters related to mean sea level datum. Wire-weight gages are also adopted on highway bridges.

Recording gaging station is a staff gaging station with additional installation of automatic water-level recorder. A continuous record of water level is obtained at such station. A. Ott type X has so far been adopted as our standard equipment. The pneumatic recording gage is going to be used in some mountainous headwater area. Weekly visit to the gage for inspection and changing chart paper by the crew is under practice.

Streamflow calibrating station or Rating station is a staff gaging station or recording station where flow measurement by a current meter is periodically performed, so that calibration of river section related to flow can be made through development of stage-flow relationship or simply called "rating curve".

The rating station operation covers also the sediment sampling, water temperature observation and water collection for quality analysis. Two types of the station are under operation; with and without crew camp. Those without the camp are under moving team and those with camps are subject to less accessibility. Fixed boat by cableway across the river is one of typical means of flow measurement by the current meter for medium river, 100 meter wide. For wider river, usually located in the deltaic plain with low velocity, the boat is fixed in position by anchors.

The A. Ott current meter has so far been adopted as standard equipment. The multiple-points method has been used as velocity measurement working practice. At present the two-point method is becoming more popular.

Cubic meter per second (cms.) is a unit used for flow measurement. It is the rate of flow of a river or a stream discharging water in volume expressed in cubic meter per one second of time. One cms. is the rate of discharge of a stream whose channel cross sectional area containing water is one square meter and whose average velocity is one meter per second.

Million cubic meter (mcm.) is the volume of water expressed in millions of cubic meter. It is the quantity of water required to cover one square kilometer in area to the depth of one meter.

Water year is the year related to annual cycle of river flow beginning from April to March 31 for this region, during which the river flow begins to rise, reaching its flood stage and subsiding toward its cyclic minimum.

The volume of river water in each water year, usually termed as annual runoff, is approximately the effective runoff from the rainfall accumulated during the water year.

Drainage area is an area above a specified location of a stream, measured in a horizontal plane, which is so enclosed by a topographic divide, in which direct surface runoff from rainfall would drain by gravity into the river above the specified site. The drainage area in square kilometers given herein is the total enclosed area including non-runoff contributing area, if any.

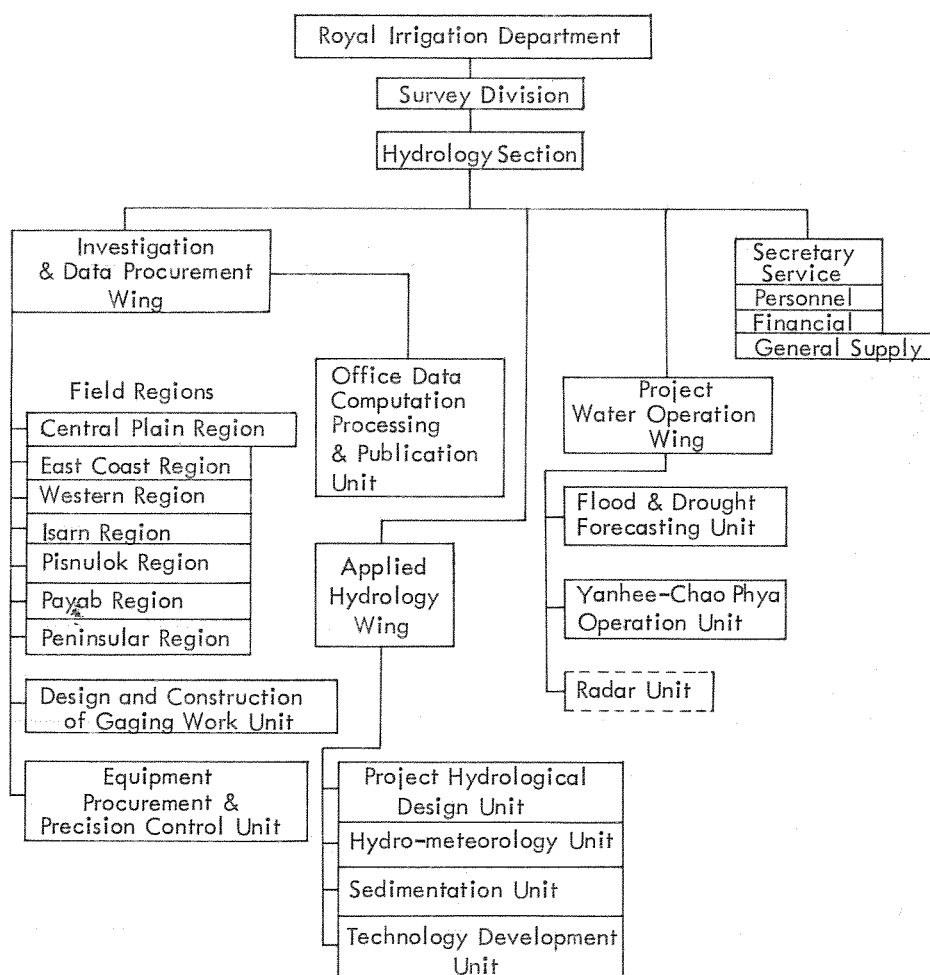
ORDER OF LISTING GAGING DATA

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. List of gaging station codes presented in the publication of Stream Gaging Stations are shown in the Map enclosed. 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. C.1 is the station code for the Chao Phya River at Wat Tahard gaging station built in 1905, which is the first stream-flow rating station ever built in this river.

The river list follows the order of river basin beginning first with the main river and followed by first tributaries in the downstream order.

ORGANIZATION

Streamflow data presented herein are from the hydrologic network operated by Hydrology Section of Royal Irrigation Department. Field collection, Office processing and publication are its hydrologic activity under Investigation and Data Procurement Wing which is a part of the Section Works. The organization structure of the Section is diagrammatically shown below:



STANDARD OF DATA COLLECTION WORK

Field work - The minimum standards of hydrologic basic data field observations and measurements are equal to those recommended in the United Nations ECAFE Flood Control Series No. 6.

Water level data are obtained by staff gage reading and recorders in such manner as previously explained.

Measurements of flow are made with current meter by accepted methods as previously mentioned. 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 which crew camp, daily rating performance may be expected, at least once whenever change of stage per day is over 30 centimeters.

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 a fashion of using cross section made during dry season for discharge computation.

The standard methods of U. S. Geological Survey are basic methods adopted in the network field operation.

Office Record 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 shifting control could be eliminated or reduced. Zero flow elevation of the rating section is determined by trial 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 both by direct velocity measurement and slope-area method whenever applicable.

Determination of Daily Mean Flow - Application of the adjusted daily mean gage height to rating tables gives the corresponding daily mean discharge, from which the monthly and the yearly mean discharge are computed. Shifting adjustment for observed gage height is made when necessary. Shifting design is made base 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 readings.

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 mountain streams, less than 10% for larger valley streams and not more than 5% for lower deltaic streams. Most of mountain and valley streams are under recording operation, only deltaic streams that daytime reading are still used.

The daily mean water level tabulated herein are the actual arithmetic mean of the observed data available. Adjusted water level due to shifting, which are applicable to rating curve for daily mean flow determination are not shown, but they will be found in the computation file of H. 25.

It is noted that the daily mean flow presented herein are mostly subject to upstream diversion utilisation. Headwater utilisation of water by people diversions and state-own diversions are expected in many of 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.

CLASSIFICATION OF DATA

Time basis used for daily mean flow is from midnight to midnight. The degree of accuracy of the data are classified as follows:

Excellent indicates the error of data of less than 5% being believable;

Good being less than 10%

Fair being less than 15%; and

Poor being more than 15% probable.

Review of Procedure for Streamflow Record Processing

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

1. Checking of gage height data which are obtained either from staff gage reading or from 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 record 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 the location of gage at which the rating curve is developed.
2. Checking of availability and goodness of field measurement notes, H. 23.
3. Checking of differential magnitude of water level during rating as to which arithmetic average or weighed average is desirable.
4. Checking of stability of rating curve used, HS. 1004.
5. Review of shifting control sample and design shifting, H. 24-25, if any.
6. Adjustment of backwater, flood wave, etc., by rate of change of falls as index, H. 31-32, if any.
7. Overall review of daily mean flow data as an end-product, H. 26.
8. Consistency of runoff volume among those observed at the upstream and downstream stations, taking into account intervening diversions of flow, if any.

SERIES OF YEAR-BOOK PUBLICATIONS

It is contemplated that the hydrological data previous to the year 1965 will be published separately as well as the further data to the year 1965. The yearbook volumes in which those data will be published, are to be arranged. The final revision is as follows:

<u>Volume</u>	<u>Years of Record</u>	<u>Approximate No. of Station-years</u>
1	1912-1937	112
2	1938-1947	103
3	1948-1953	146
4	1954-1956	178
5	1957-1959	203
6	1960-1962	213
7	1963-1964	182
8	1965	113
9	1966	129
10	1967	140
11	1968	143

It is earnestly hopeful that the Volumes 5 back to 1 and the Volume 9 to 11 and so on will be released in serial order.

UNIT OF MEASUREMENT USED

UNIT CONSERVATION FACTORS

1 meter (m.) = 39.37 inches	=	3,280.8 feet
1 kilometer (km.) = 0.6214 mile	=	3,280.8 feet
1 square meter (m ² or sq.m.)	=	1.196 square yards
	=	10.764 square feet
1 square kilometer (km ² or sq.km.)	=	0.3861 square mile
	=	247.1 acres
	=	625 rai (Thai)
1 cubic meter (m ³ or cu.m.)	=	1,000 litres
	=	1.308 cubic yards
	=	35.31 cubic feet
1 million cubic meter (mcm.)	=	1,000,000 m ³
	=	810.7 acre-feet
1 acre-foot	=	1,233 m ³
1 hectare	=	6.25 rai (Thai)
1 acre	=	2.50 rai
1 rai (Thai)	=	1,600 m ²
1 day	=	86,400 seconds
1 month (average)	=	2.63 million seconds
1 year (average)	=	31.6 million seconds.

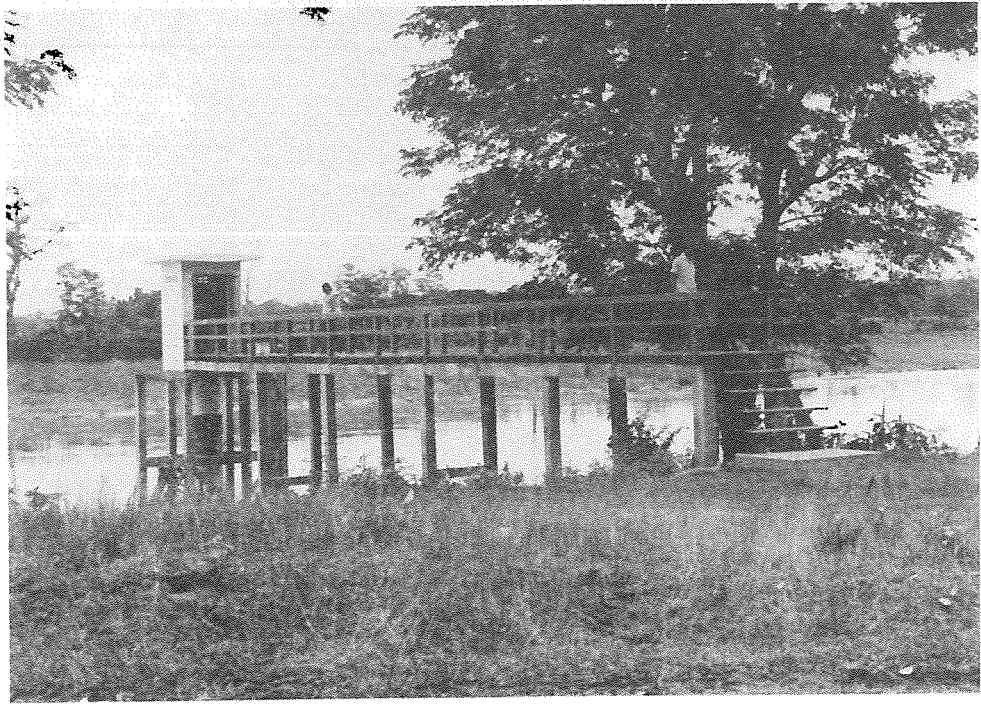


Figure 1. Recording Gaging Station of Nan River at Ban San (N. 13) Nan.

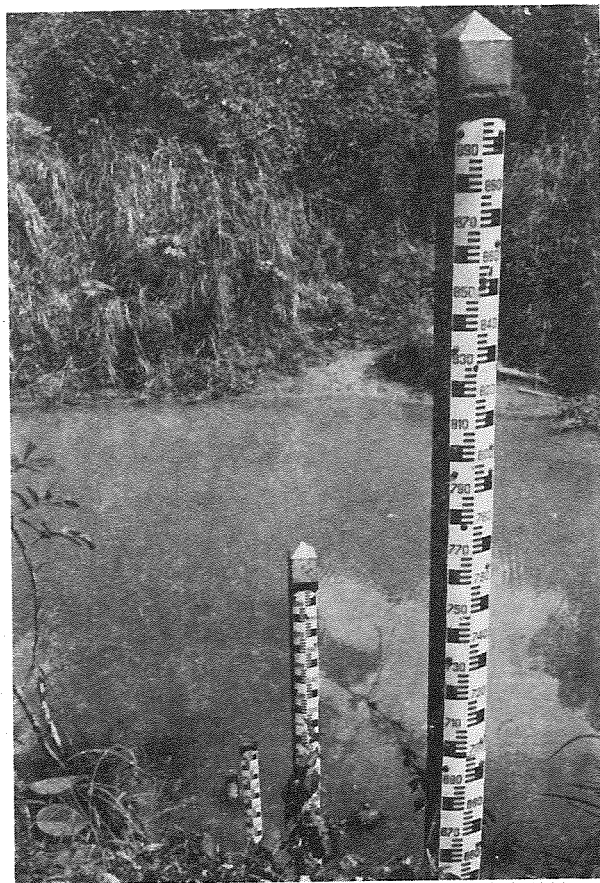


Figure 2. Staff Gaging Station of Pa Sak River at Amphoe Muang (S. 4A) Phetchaburi.



Figure 3. Recording Gaging Station of Lam Takhong at Ban Khlong Phai (M. 38C)
Nakhon Ratchasima.

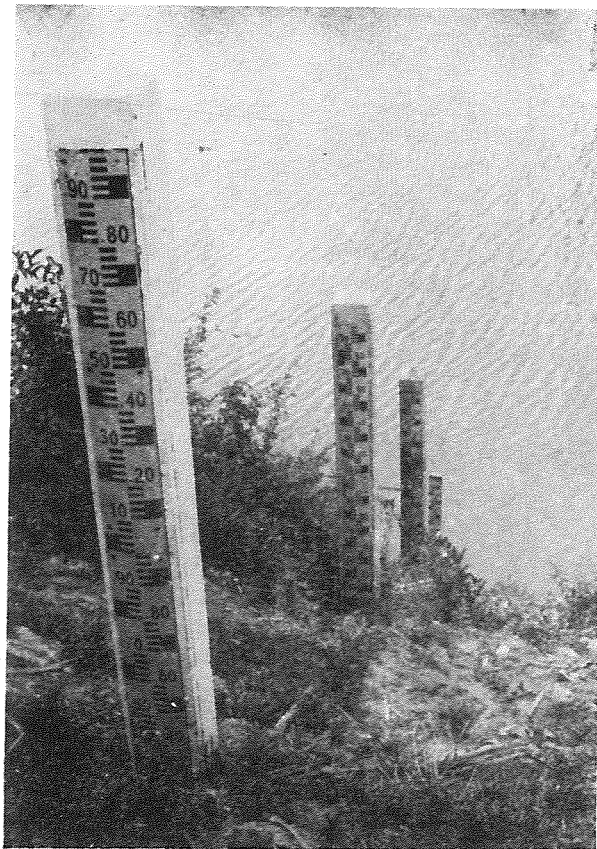


Figure 4. Staff Gaging Station of Mun River at A. Satuk (M. 6A)
Buri Ram.



Figure 5. Close-up of Rating Operation.

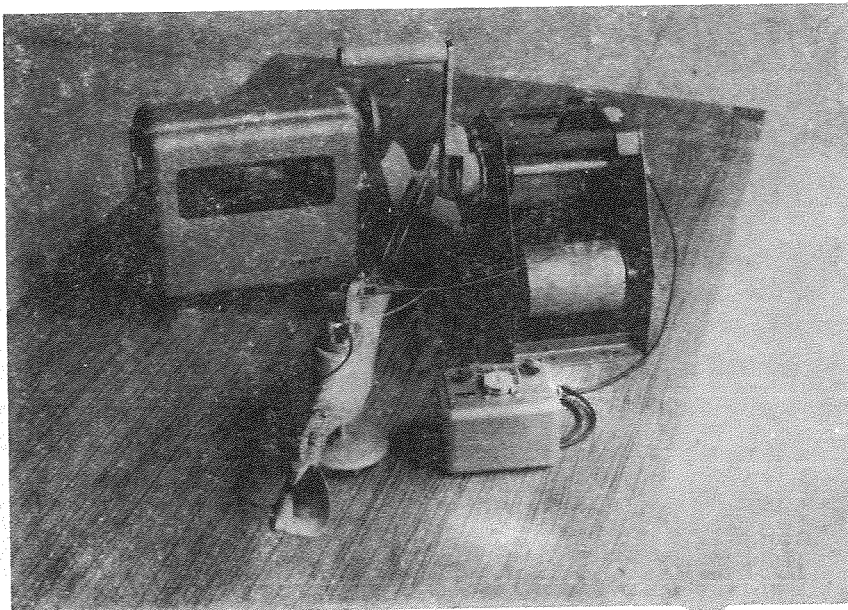


Figure 6. Standard Hydrologic Equipment.

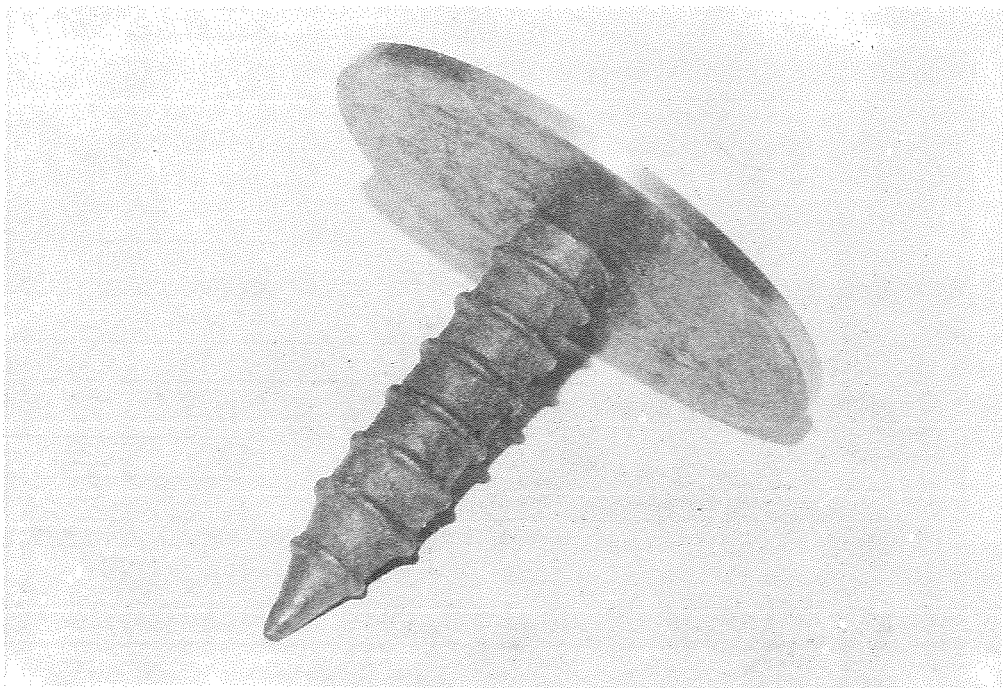


Figure 7. Standard bench mark

ERRATA FOR VOLUME 6

<u>PAGE</u>	<u>ERROR</u>	<u>CORRECTION</u>
42	Line 5: Mea Taeng River at Kut, Chiang Mai (P. 13)	Mae Taeng River at Kaeng Kut, Chiang Mai (P. 13)
98	Line 5: Mae Mo Creek at Thanhin Lignite office, Lampang (W. 7)	Mae Mo Creek at Lignite Camp, Lampang (W. 7)
136, 138, 140	Line 5: Nan River at Phichai, Uttaradit (N. 4)	Nan River at Ban Wang Phaniat, Uttaradit (N. 4)
224, 226, 228	Line 5: Huai Mong at Ban Phu, Udon Thani (Kh. 18)	Huai Mong at Ban Na Ang, A. Ban Phu, Udon Thani (Kh. 18)
245	In graph: FLOW OF NAM PHUNG	FLOW OF HUAI HUAT
283	In graph: FLOW OF LAM PAO	FLOW OF NAM PHONG
294, 296	Line 5: Nam Yang at Ban Nong Saeng Tha, Roi Et (E. 33A)	Nam Yang at Ban Nong Saeng Thung, Roi Et (E. 33A)
295, 297	In graph, Second line: AT BAN NONG KHAI NUN (E. 33A)	AT BAN NONG SAENG THUNG (E. 33A)
343, 345, 347	In graph: FLOW OF KHLONG NANG RONG AT NANG RONG (Ny. 1A)	FLOW OF KHLONG THA DAN AT BAN THA DAN (Ny. 1A)
353	In graph, second line: AT THA KABIN BURI (Kgt. 3)	AT KABIN BURI (Kgt. 3)
361, 363, 365	In graph: FLOW OF MAE KLONG RIVER	FLOW OF KHWAE YAI
374	Line 5: (B. 1) (B. 1A)

ERRATA FOR VOLUME 6 (Page 2)

PAGE

ERROR

CORRECTION

218, 220, Drainage Area: 2,088 sq.km.
222 (only in Thailand) referred to
AMS Map 1:50,000

6,063 sq.km. referred to AMS Map
1:250,000. The areas included in
Thailand is 2,745 sq.km. while in
Burma 3,318 sq.km., exclusive of
minor area further upstream due to the
map is not available.

366, 368, Drainage Area: 27,200 sqkm.
370

26,421 sqkm.

STREAM GAGING DATA

WATER YEAR 1960 - 1962

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PING RIVER BASIN

Mae Ping River at Nawarath Bridge, Chiang Mai (P.1)

Location: Lat 18°-47'-09" N, Long 99°-00'-29" E, on left bank 100 meters downstream from Nawarath Bridge, Amphoe Muang, Chiang Mai.

Drainage Area: 6,355 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +300.80 m.(M.S.L.)

Bench Mark: B.M. of The Survey Department.

Location: On left bank at the abutment of bridge.
Elevation: +306.876 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1921 to date.

Rating Operation:

Period of Rating: 1936 - 38, 1954 - 60
Rated by Float: 1936 - 38
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

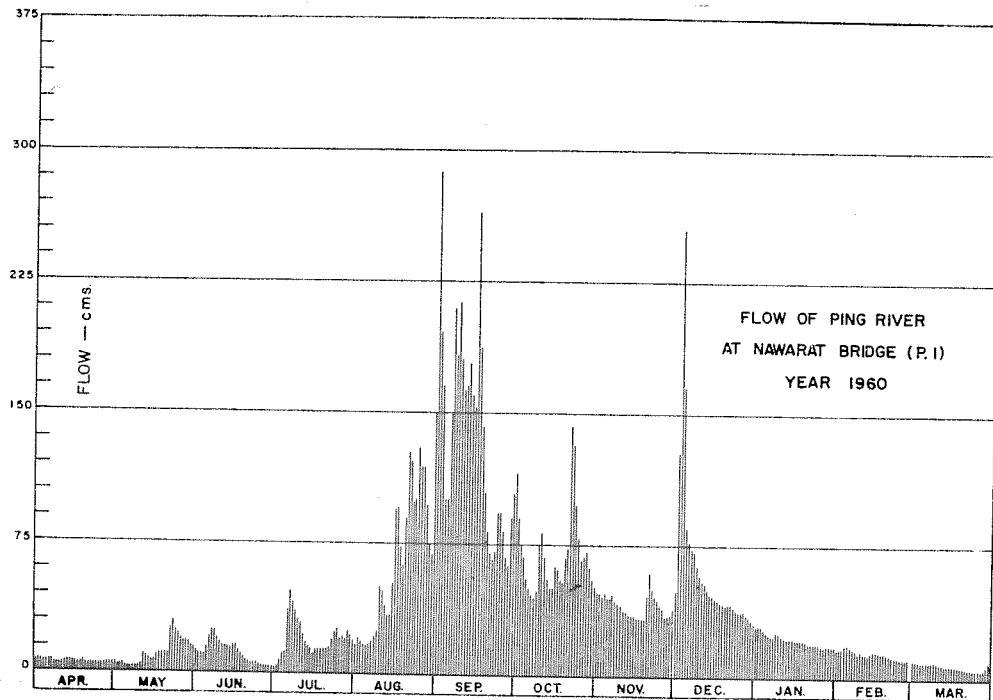
General Description: Records good. Flow regulated by Mae Faek Weir for irrigation of about 11,200 hectares at above gage site. The data presented is made by discharge measurements during 1960. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.53	301.57	301.65	301.47	301.72	303.98	302.69	302.06	302.17	301.87	301.68	301.57
2	.53	.55	.62	.51	.77	.33	.50	.04	303.18	.87	.69	.56
3	.53	.55	.61	.55	.74	.12	.32	.02	.80	.87	.69	.55
4	.51	.56	.61	.64	.71	302.65	.23	.05	302.90	.84	.72	.55
5	.51	.53	.69	.66	.69	.65	.14	.01	.56	.82	.72	.55
6	301.53	301.52	301.76	302.01	301.71	303.13	302.07	302.01	302.45	301.80	301.71	301.54
7	.53	.52	.84	.15	.74	.51	.04	.03	.36	.78	.70	.54
8	.53	.53	.84	.07	.77	.32	.01	301.99	.30	.79	.68	.54
9	.53	.53	.77	.03	.86	.53	.07	.97	.23	.83	.64	.54
10	.53	.50	.77	301.94	302.17	.30	.33	.96	.17	.81	.66	.54
11	301.53	301.47	301.72	301.92	302.16	303.17	302.39	301.96	302.14	301.79	301.64	301.53
12	.54	.60	.71	.83	.05	.19	.26	.96	.12	.77	.63	.52
13	.55	.58	.71	.75	301.98	.29	.14	.94	.09	.76	.62	.52
14	.54	.54	.69	.70	.99	.16	.08	.93	.06	.77	.64	.52
15	.54	.51	.72	.66	302.20	.10	.08	.93	.04	.77	.66	.51
16	301.53	301.51	301.73	301.62	302.60	303.85	302.20	301.92	302.02	301.76	301.65	301.51
17	.53	.56	.69	.65	.61	.33	.19	.91	.01	.76	.64	.51
18	.53	.59	.62	.66	.43	302.91	.13	.92	.01	.75	.63	.48
19	.55	.60	.59	.66	.30	.60	.11	.92	301.99	.75	.63	.48
20	.56	.61	.56	.67	.50	.40	.21	302.00	.99	.74	.62	.48
21	301.56	301.63	301.53	301.68	301.89	302.29	302.33	302.20	301.98	301.73	301.62	301.48
22	.56	.88	.51	.68	.85	.25	.93	.11	.98	.72	.61	.47
23	.56	.94	.51	.75	.64	.28	.84	.07	.97	.72	.60	.47
24	.56	.90	.51	.83	.66	.50	.55	.03	.95	.72	.59	.46
25	.55	.84	.49	.85	.91	.50	.35	.01	.93	.71	.59	.45
26	301.55	301.79	301.48	301.78	302.82	302.37	302.24	301.99	301.93	301.71	301.59	301.44
27	.55	.77	.47	.79	.82	.25	.25	.99	.93	.70	.59	.45
28	.55	.77	.47	.78	.62	.21	.29	.99	.91	.71	.59	.47
29	.57	.78	.47	.83	.43	.48	.21	302.00	.90	.71		.49
30	.57	.73	.45	.79	.35	.61	.15	.04	.89	.71		.55
31		.70		.76	303.06		.10		.88	.71		.59
Mean	301.54	301.63	301.63	301.76	302.28	302.91	302.27	302.00	302.19	301.77	301.64	301.51
Max.	301.57	301.94	301.84	302.15	303.06	303.98	302.93	302.20	303.80	301.87	301.72	301.59
Min.	301.51	301.47	301.45	301.47	301.69	302.21	302.01	301.91	301.88	301.70	301.59	301.44

WATER YEAR 1960 : Max. 303.98 m. Min. 301.44 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.83	5.72	14	4.61	17	287	115	48	49	29	16	10
2	6.83	4.98	12	6.09	21	184	93	47	162	29	17	10
3	6.83	4.98	11	7.68	19	156	74	45	255	29	17	9.50
4	6.09	5.35	11	12	17	100	65	47	127	27	19	9.50
5	6.09	4.24	16	13	16	100	56	44	89	25	19	9.50
6	6.83	3.87	20	37	17	157	49	44	77	24	18	9.00
7	6.83	3.87	25	48	19	210	47	47	73	23	17	9.00
8	5.72	4.24	25	41	21	183	44	42	71	23	16	9.00
9	5.72	4.24	20	38	26	213	49	41	64	26	14	9.00
10	5.72	3.25	19	31	50	180	75	40	58	25	15	9.00
11	5.72	5.35	16	30	49	162	82	37	55	23	14	8.50
12	6.09	11	16	23	40	165	68	37	53	22	14	8.00
13	6.46	10	16	19	34	178	56	35	50	21	13	8.00
14	6.09	8.16	15	16	35	161	50	34	47	22	14	8.00
15	6.09	6.83	16	14	53	153	50	34	46	22	15	7.50
16	5.72	6.83	17	12	95	265	62	33	44	21	15	7.50
17	5.72	9.12	15	14	96	184	61	33	43	21	14	7.50
18	5.72	11	11	14	76	138	55	33	43	21	14	6.30
19	6.09	11	10	14	63	104	53	33	41	21	14	6.30
20	5.35	11	8.16	15	84	83	63	40	41	20	13	6.30
21	5.35	11	6.83	15	127	71	75	58	41	19	13	6.30
22	5.35	26	6.09	15	123	67	143	49	41	19	12	5.95
23	5.35	30	6.09	19	99	70	132	46	40	19	12	5.95
24	5.35	27	6.09	25	101	93	99	42	38	19	11	5.60
25	4.98	23	5.35	26	130	93	77	40	37	18	11	5.25
26	4.98	20	4.98	21	119	80	66	39	37	18	11	4.90
27	4.98	19	4.61	22	119	67	67	34	37	17	11	5.25
28	4.98	19	4.61	21	97	63	71	34	35	18	11	5.95
29	5.72	19	4.61	25	76	91	63	35	34	18	11	6.65
30	5.72	16	3.87	22	68	106	57	38	32	18	11	9.50
31	5.72	16		20	148		52		30	18		11
Total	175.30	361.03	366.29	640.38	2,055	4,164	2,169	1,209	1,890	675	400	239.70
Mean	5.84	11.7	12.2	20.7	66.3	139	70	40.3	61.0	21.8	14.3	7.73
Max.	6.83	30	25	48	148	287	143	58	255	29	19	11
Min.	4.98	3.25	3.87	4.61	16	63	44	33	30	17	11	4.90
Runoff - mcm.	15.146	31.193	31.647	55.329	177.552	359.770	187.402	104.458	163.296	58.320	34.560	71.008

WATER YEAR 1960 : Max. 287 Min. 3.87 Mean 39.3 Annual Runoff 1,239.382 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	15.00	304.02	294				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Ping River at Nawarath Bridge, Chiang Mai (P.1)

Location: Lat 18° - 47' - 09" N, Long 99° - 00' - 29" E, on left bank 100 meters downstream from Nawarath Bridge, Amphoe Muang, Chiang Mai.

Drainage Area: 6,355 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: + 300.80 m.(M.S.L.)

Bench Mark: B.M. of The Survey Department.

Location: On left bank at the abutment of bridge.

Elevation: +306.876 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1921 to date.

Rating Operation:

Period of Rating: 1936 - 38, 1954 - 60

Rated by Float: 1936 - 38

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

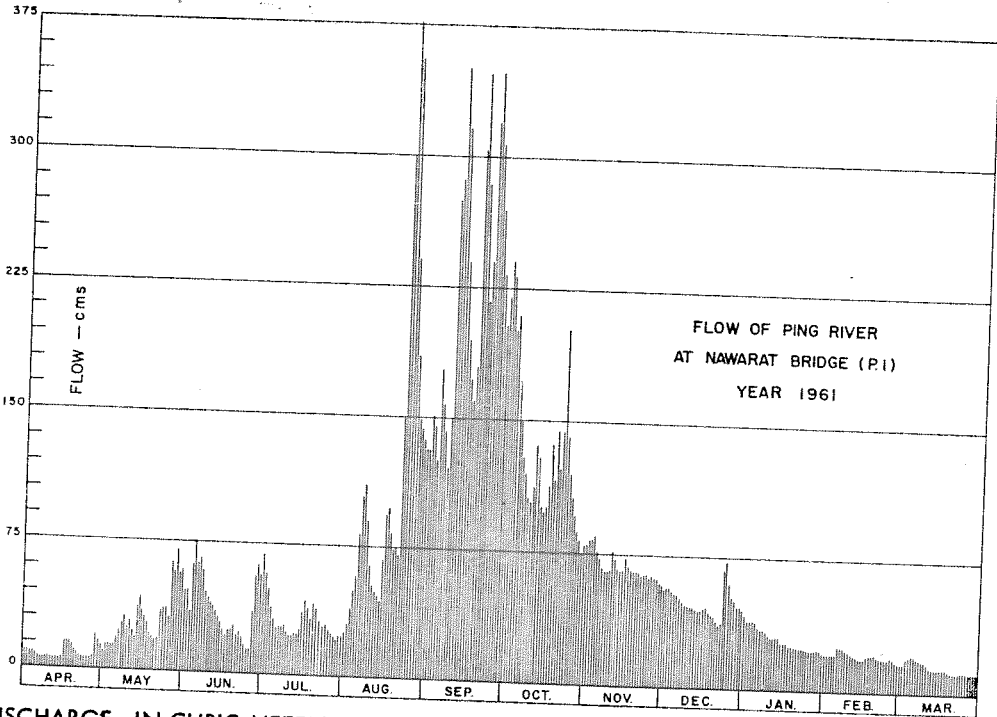
General Description: Gage height record good, discharge record fair. Flow regulated by Mae Faek Weir for irrigation of about 11,200 hectares at above gage site. Stage - discharge relation used is defined by discharge measurements during 1960. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.56	301.59	302.09	302.32	301.83	302.88	303.67	302.42	302.18	302.04	301.76	301.68
2	.56	.65	.10	.21	.89	303.05	.59	.45	.20	.00	.76	.68
3	.54	.66	301.95	.12	302.00	.70	.41	.45	.20	.00	.76	.74
4	.54	.64	302.25	301.99	.12	.56	.47	.47	.18	.00	.76	.76
5	.51	.63	.38	.91	.23	.25	.20	.40	.16	301.99	.80	.76
6	301.47	301.73	302.26	301.85	302.42	303.05	303.02	302.35	302.16	301.94	301.82	301.76
7	.47	.79	.29	.85	.65	302.94	302.87	.30	.14	.94	.82	.74
8	.47	.84	.22	.84	.71	.80	.74	.28	.12	.94	.80	.72
9	.47	.90	.10	.86	.51	303.09	.66	.28	.10	.92	.80	.71
10	.48	.82	.06	.83	.30	.86	.64	.29	.08	.90	.78	.71
11	301.48	301.87	302.03	301.78	302.17	303.93	302.74	302.40	302.08	301.88	301.76	301.68
12	.47	.78	301.99	.77	.14	304.34	.92	.35	.08	.88	.76	.66
13	.48	.72	.96	.80	.11	.09	.86	.29	.06	.89	.74	.64
14	.48	.97	.92	.80	.06	303.65	.62	.28	.06	.88	.72	.64
15	.47	302.05	.86	.85	.21	.40	.59	.29	.06	.85	.72	.64
16	301.47	301.92	301.82	301.96	301.55	303.18	302.63	302.36	302.08	301.84	301.72	301.64
17	.67	.88	.76	302.05	.59	.11	.73	.32	.08	.84	.75	.63
18	.67	.84	.81	.00	.48	.26	.93	.30	.06	.82	.75	.63
19	.66	.76	.83	301.93	.37	304.04	.75	.28	.04	.82	.75	.63
20	.59	.72	.86	302.02	.38	.33	.99	.28	.01	.80	.75	.61
21	301.54	301.71	301.77	302.01	302.33	303.79	302.81	302.28	301.98	301.80	301.74	301.61
22	.51	.72	.80	301.94	303.06	.52	303.00	.26	.96	.80	.73	.60
23	.50	.95	.77	.88	304.05	.67	.42	.27	.98	.80	.73	.60
24	.48	.97	.69	.86	.51	304.13	.01	.27	302.31	.80	.72	.62
25	.48	.97	.64	.89	.37	.33	302.79	.25	.36	.79	.72	.62
26	301.47	301.90	301.64	301.84	303.78	304.07	302.72	302.26	302.22	301.79	301.72	301.60
27	.53	302.26	.95	.82	.30	303.81	.58	.25	.15	.78	.72	.60
28	.74	.21	302.20	.77	.02	.66	.50	.24	.12	.78	.70	.60
29	.70	.33	.26	.76	302.99	.43	.44	.24	.08	.78	.60	.60
30	.64	.20	.20	.78	.94	.50	.39	.20	.08	.77	.60	.60
31		.21		.78	.89		.42		.07	.76		.56
Mean	301.54	301.88	301.98	301.90	302.51	303.58	302.87	302.32	302.12	301.86	301.75	301.65
Max.	301.74	302.33	302.38	302.32	304.51	304.34	303.67	302.47	302.36	302.04	301.82	301.76
Min.	301.47	301.59	301.64	301.76	301.37	302.80	302.39	302.20	301.96	301.76	301.70	301.56

WATER YEAR 1961 : Max. 304.51 m. Min. 301.47 m.

HYDROLOGY SECTION; SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	11	47	69	26	131	241	80	55	42	21	16
2	10	15	47	58	30	152	228	83	57	39	21	16
3	9.12	15	35	49	39	246	201	85	57	39	21	20
4	9.12	14	62	38	49	224	210	85	55	39	21	21
5	7.68	14	75	32	60	178	171	77	53	38	24	21
6	6.09	19	63	27	80	152	148	72	53	34	25	21
7	6.09	23	66	27	104	138	130	67	51	34	25	20
8	6.09	27	59	27	111	121	115	65	49	34	24	19
9	6.09	31	47	28	89	157	106	65	47	33	24	18
10	6.46	25	44	26	67	274	103	66	46	31	23	18
11	6.46	29	41	23	54	286	115	77	46	30	21	16
12	6.09	23	38	22	51	350	136	72	46	30	21	15
13	6.46	19	36	24	48	313	129	66	44	30	20	14
14	6.46	37	33	24	44	238	101	65	44	30	19	14
15	6.09	43	28	27	58	199	98	66	44	27	19	14
16	6.09	33	25	36	93	169	102	73	46	27	19	14
17	16	30	21	43	98	160	113	69	46	27	21	14
18	16	27	25	39	86	180	137	67	44	25	21	14
19	15	21	26	33	74	304	116	65	42	25	21	14
20	11	19	28	41	75	348	145	65	40	24	21	12
21	9.12	18	22	40	70	262	123	65	37	24	20	12
22	7.68	19	24	34	153	218	146	63	36	24	19	12
23	7.20	35	22	30	306	241	202	64	37	24	19	12
24	6.46	37	17	28	379	320	147	64	68	24	19	13
25	6.46	37	14	30	355	348	120	62	73	23	19	13
26	6.09	31	14	27	260	309	112	63	59	23	19	12
27	8.64	63	35	25	185	265	97	62	52	23	17	12
28	20	58	57	22	148	240	88	61	49	23	17	12
29	17	70	65	21	145	204	82	61	46	23	17	12
30	14	57	57	23	138	214	76	57	46	22	17	12
31		58	23	23	132		80		45	21	10	10
Total	275.04	958	1,171	996	3,607	6,941	4,118	2,050	1,513	892	583	463
Mean	9.17	30.9	39.0	32.1	116	231	133	68.3	48.8	28.8	20.8	14.9
Max.	20	70	75	69	379	350	241	85	73	42	25	21
Min.	6.09	11	14	21	26	121	76	57	36	21	17	10
Runoff - mcm.	23.763	82.771	101.174	86.054	311.645	599.702	355.795	177.120	130.723	77.069	50.371	40.003

WATER YEAR 1961 : Max. 379 Min. 6.09 Mean 64.6 Annual Runoff 2,036.192 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	18.00	304.55	386				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
PING RIVER BASIN

Mae Ping River at Nawarath Bridge, Chiang Mai (P.1)

Location: Lat 18°- 47' - 09" N, Long 99°- 00' - 29" E, on left bank 100 meters downstream from Nawarath Bridge, Amphoe Muang, Chiang Mai.

Drainage Area: 6,355 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +300.80 m.(M.S.L.)

Bench Mark: B.M. of The Survey Department.

Location: On left bank at the abutment of bridge.

Elevation: +306.876 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1921 to date.

Rating Operation:

Period of Rating: 1936 - 38, 1954 - 60

Rated by Float: 1936 - 38

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation for period Oct.1 - Mar.31.

Overbank Flow Conditions: No overbank flow.

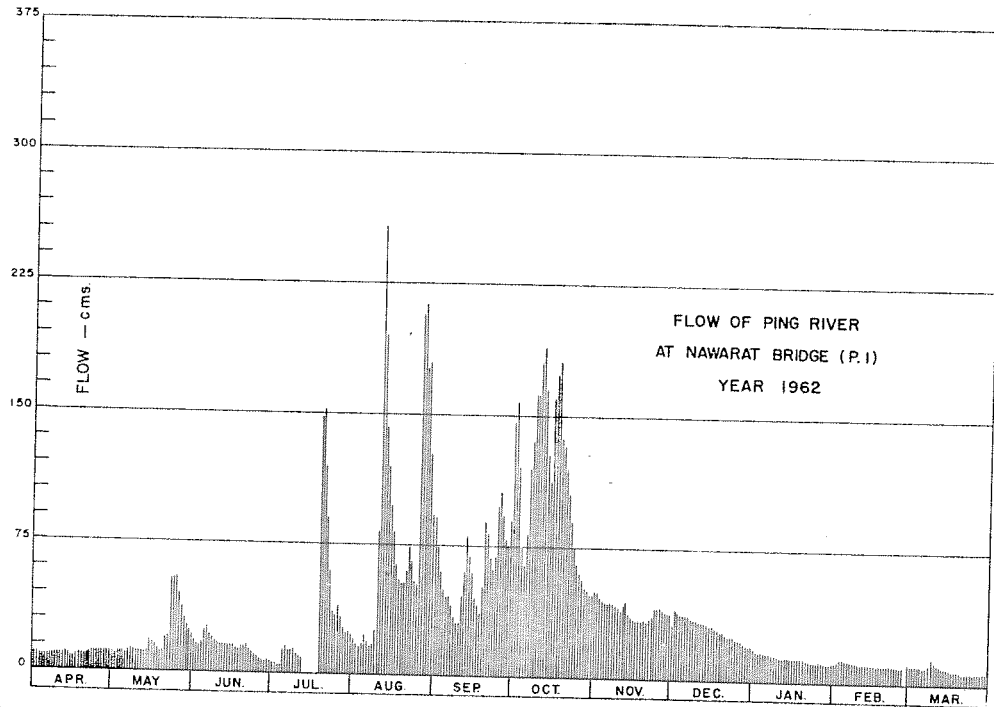
General Description: Gage height record good, discharge record fair. Flow regulated by Mae Faek Weir for irrigation about 11,200 hectares at above gage site. Stage - discharge relation used is defined by discharge measurements during 1960. No adjustment made for virgin flow.

Remarks: No gage height record for Jul.13 - 18.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.56	301.60	301.73	301.48	301.74	302.53	303.00	302.03	301.80	301.62	301.50	301.47
2	.56	.59	.68	.47	.69	.37	.10	.03	.91	.60	.50	.47
3	.55	.61	.68	.46	.68	.24	302.67	.00	.90	.60	.52	.47
4	.55	.60	.72	.46	.71	.13	.41	301.97	.89	.59	.52	.47
5	.55	.60	.82	.63	.78	.08	.27	.96	.88	.60	.52	.45
6	301.55	301.58	301.84	301.68	301.73	302.10	302.41	301.96	301.88	301.58	301.51	301.45
7	.56	.62	.79	.64	.69	.04	.78	.96	.88	.57	.51	.45
8	.56	.62	.75	.64	.71	301.96	.93	.96	.85	.56	.51	.48
9	.56	.61	.72	.65	.88	.90	303.13	.94	.84	.55	.50	.53
10	.56	.60	.69	.61	302.21	.91	.13	.92	.84	.54	.49	.51
11	301.56	301.61	301.68	301.58	303.76	302.06	303.26	301.91	301.82	301.53	301.49	301.48
12	.56	.61	.68	.57	.34	.21	.33	.94	.82	.53	.48	.47
13	.58	.61	.68		302.98	.43	.06	.96	.82	.53	.48	.44
14	.55	.61	.68		.78	.29	302.82	.87	.81	.53	.48	.44
15	.52	.73	.68		.59	.21	.72	.85	.80	.53	.48	.43
16	301.52	301.72	301.68		302.43	302.09	303.11	301.84	301.80	301.52	301.47	301.43
17	.57	.69	.66		.28	.02	.21	.84	.79	.53	.47	.42
18	.58	.65	.64		.19	301.97	.27	.84	.77	.53	.47	.41
19	.56	.60	.66	303.02	.16	302.14	302.83	.83	.76	.53	.47	.41
20	.56	.61	.68	.05	.16	.52	.80	.84	.75	.53	.46	.40
21	301.56	301.72	301.69	302.74	302.22	302.44	302.68	301.83	301.74	301.52	301.46	301.40
22	.59	.76	.65	.35	.37	.32	.52	.84	.72	.51	.46	.40
23	.60	302.17	.51	.12	.25	.25	.40	.88	.72	.50	.46	.39
24	.60	.18	.59	301.97	.17	.34	.28	.92	.91	.50	.46	.39
25	.60	.19	.56	.94	.15	.60	.18	.92	.70	.49	.45	.38
26	301.60	302.11	301.52	302.03	303.44	302.67	302.12	301.92	301.69	301.50	301.45	301.37
27	.60	.01	.52	301.93	.49	.52	.09	.91	.68	.50	.45	.37
28	.60	301.93	.51	.85	.24	.42	.05	.90	.66	.49	.49	.37
29	.60	.87	.52	.80	.26	.38	.04	.89	.65	.49		.38
30	.60	.81	.49	.82	302.84	.54	.01	.90	.64	.49		.37
31		.76		.79	.54		.00		.64	.49		.37
Mean	301.57	301.74	301.66		302.40	302.26	302.66	301.91	301.78	301.53	301.48	301.43
Max.	301.60	302.19	301.84		303.76	302.67	303.33	302.03	301.91	301.62	301.52	301.53
Min.	301.52	301.58	301.49		301.68	301.90	302.00	301.83	301.64	301.49	301.45	301.37

WATER YEAR 1962 : Max. 303.76 m. Min. 301.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	12	19	6.46	20	91	146	50	31	19	12	10
2	10	11	16	6.09	17	74	158	50	40	17	12	10
3	9.60	12	16	5.72	16	61	107	47	39	17	13	10
4	9.60	12	19	5.72	18	50	78	45	38	17	13	10
5	9.60	12	25	14	23	46	64	44	37	17	13	9.60
6	9.60	11	27	16	19	47	78	44	37	16	12	9.60
7	10	13	23	14	17	42	119	44	37	16	12	9.60
8	10	13	21	14	18	36	137	44	35	15	12	11
9	10	12	19	15	30	31	162	42	34	15	12	14
10	10	12	17	12	58	32	162	41	34	14	11	12
11	10	12	16	11	257	44	180	40	33	14	11	11
12	10	12	16	10	191	58	189	42	33	14	11	10
13	11	12	16		143	81	153	44	33	14	11	9.12
14	9.60	12	16		119	66	124	37	32	14	11	9.12
15	8.16	19	16		98	58	112	35	31	14	11	8.64
16	8.16	18	16		81	47	160	34	31	13	10	8.64
17	10	17	15		65	41	173	34	30	14	10	8.16
18	11	15	14		56	37	181	34	29	14	10	7.68
19	10	12	15	148	53	51	137	33	28	14	10	7.68
20	10	12	16	152	53	90	133	34	27	14	10	7.20
21	10	19	17	115	59	82	119	33	27	13	10	7.20
22	11	21	15	72	74	69	101	34	25	12	10	7.20
23	12	54	12	49	62	62	88	37	25	12	10	6.83
24	12	55	11	37	54	71	75	41	25	12	10	6.83
25	12	56	10	34	52	99	65	41	24	11	9.60	6.46
26	12	48	8.16	41	205	107	59	41	23	12	9.60	6.09
27	12	40	8.16	33	213	90	56	40	23	12	9.60	6.09
28	12	33	7.68	27	177	80	52	39	21	11	11	6.09
29	12	29	8.16	24	180	75	51	38	21	11		6.09
30	12	25	6.83	25	126	92	48	39	20	11		6.09
31		21		23	92		47		20	11		6.09
Total	313.32	662	461.99		2,646	1,910	3,514	1,201	923	430	306.80	264.47
Mean	10.4	21.3	15.4		85.3	63.7	113	40.0	29.8	13.9	10.9	8.53
Max.	12	56	27		257	107	189	50	40	19	13	14
Min.	8.16	11	6.83		16	31	47	33	20	11	9.60	6.09
Runoff - mcm.	27.071	57.197	39.916		228.614	165.024	303.610	103.766	79.747	37.152	26.507	22.850

WATER YEAR 1962 : Max. 257 Min. 6.09 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11	09.00	303.76	257				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

8

WATER YEAR 1960
PING RIVER BASIN

Mae Ping River at Tha Khae, Tak (P.2)

Location: Lat $16^{\circ} - 51' - 14''$ N, Long $99^{\circ} - 02' - 50''$ E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,827 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +104.29 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the south corner of Wat Chaichana Songkhram Temple.
Elevation: +110.290 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 - 39, 1942 - 45 and 1950 to date.

Rating Operation:

Period of Rating: 1952 - 60, 1963 to date.

Rated by Float: -

Rated by Current Meter: 1952 - 60, 1963 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

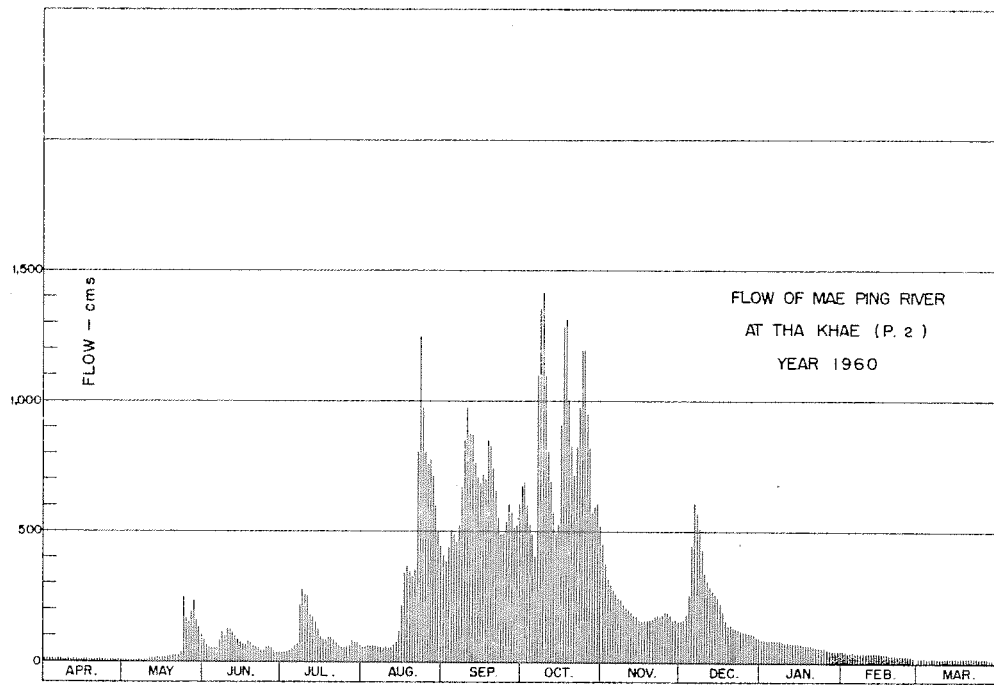
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 40,300 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	104.62	104.48	105.17	104.82	105.02	106.09	106.51	106.33	105.43	105.19	104.93	104.72
2	.62	.48	.09	.83	.01	.09	.54	.20	.44	.18	.92	.71
3	.61	.49	.05	.86	.03	.15	.43	.11	.48	.17	.91	.70
4	.61	.48	.03	.90	.02	.29	.33	.06	.68	.17	.91	.70
5	.60	.48	104.99	.94	.02	.27	.23	.02	106.32	.16	.91	.69
6	104.80	104.48	105.00	105.03	105.01	106.23	106.14	105.98	106.55	105.16	104.91	104.68
7	.59	.50	.14	.09	104.99	.33	107.16	.94	.51	.15	.90	.68
8	.59	.50	.26	.64	.98	.58	.43	.93	.42	.15	.90	.67
9	.58	.51	.22	.79	.96	.84	.49	.89	.28	.14	.90	.67
10	.58	.52	.35	.73	.96	.96	.13	.87	.11	.13	.89	.67
11	104.57	104.54	105.33	105.70	104.98	106.84	106.78	105.84	106.02	105.11	104.89	104.66
12	.56	.59	.28	.54	105.00	.84	.60	.81	105.93	.10	.88	.66
13	.56	.60	.21	.48	.02	.69	.41	.78	.79	.10	.88	.67
14	.56	.62	.15	.42	.13	.61	.28	.77	.64	.10	.87	.67
15	.55	.61	.11	.33	.31	.59	.34	.64	.58	.09	.86	.67
16	104.55	104.60	105.07	105.23	105.65	106.63	106.07	105.43	105.52	105.09	104.85	104.67
17	.54	.59	.06	.18	.94	.58	107.47	.39	.47	.08	.84	.66
18	.53	.62	.12	.15	106.01	.82	.49	.37	.43	.07	.83	.66
19	.53	.66	.08	.18	105.93	.81	.25	.36	.41	.06	.82	.66
20	.52	.67	.04	.17	.87	.68	106.83	.36	.38	.05	.81	.66
21	104.52	104.68	105.00	105.13	105.92	106.53	106.66	105.39	105.35	105.04	104.80	104.65
22	.51	.67	104.96	.08	106.70	.37	.82	.41	.34	.03	.79	.65
23	.51	.83	.91	.03	107.25	.29	.99	.44	.33	.02	.78	.65
24	.50	105.64	.89	.01	.04	.28	107.21	.45	.31	.01	.77	.64
25	.50	.42	.95	104.97	106.79	.32	.18	.47	.30	.00	.76	.64
26	104.49	105.40	104.98	104.97	106.74	106.41	106.96	105.47	105.29	104.98	104.75	104.63
27	.50	.50	.93	105.01	.77	.39	.72	.44	.28	.97	.74	.62
28	.49	.65	.88	.09	.64	.28	.54	.42	.27	.96	.73	.61
29	.48	.47	.85	.07	.44	.30	.58	.42	.25	.95	.60	.60
30	.48	.36	.83	.08	.31	.37	.59	.42	.22	.94	.60	.60
31		.25	.05	.05	.19		.45		.21	.93		.59
Mean	104.55	105.25	105.06	105.17	105.73	106.48	106.76	105.67	105.63	105.07	104.84	104.66
Max.	104.62	105.65	105.35	105.79	107.25	106.96	107.49	105.36	106.55	105.19	104.93	104.72
Min.	104.48	104.48	104.83	104.82	104.96	106.09	106.14	105.42	105.21	104.93	104.73	104.59

WATER YEAR 1960 : Max. 107.49 m. Min. 104.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	5.60	88	35	59	406	675	449	160	88	42	19
2	12	6.00	66	35	57	387	682	374	163	86	41	18
3	11	7.20	59	38	63	436	603	323	187	84	39	17
4	11	6.40	57	42	61	502	529	298	264	84	39	17
5	11	6.40	50	49	61	487	492	278	448	83	39	16
6	11	6.00	52	63	61	461	406	259	604	83	39	15
7	10	8.00	81	70	57	524	1,099	241	572	81	38	15
8	10	7.20	111	215	56	675	1,356	236	512	81	38	14
9	9.60	7.20	101	280	52	849	1,412	218	428	79	38	14
10	9.60	8.80	126	257	56	976	1,091	210	346	77	36	14
11	9.60	11	126	253	54	878	841	199	312	74	36	14
12	9.60	14	114	181	59	871	694	188	286	72	35	14
13	8.80	13	98	171	63	760	574	178	270	72	35	14
14	8.80	15	84	156	79	701	497	177	260	72	34	14
15	8.80	15	79	129	120	688	524	160	246	70	33	14
16	8.80	16	66	101	215	714	908	156	224	70	32	14
17	8.00	16	65	88	340	701	1,282	158	192	68	31	14
18	8.00	17	79	83	368	850	1,365	158	160	66	30	14
19	8.00	21	70	93	345	828	1,115	160	140	65	29	14
20	8.00	22	63	93	331	740	828	160	141	63	28	14
21	7.60	22	56	83	354	657	714	175	135	61	27	13
22	8.00	21	56	72	801	552	821	178	129	59	26	13
23	7.20	38	44	63	1,246	492	976	179	126	57	25	13
24	7.20	246	44	59	984	497	1,193	180	120	54	24	12
25	7.60	168	54	54	808	535	1,193	192	117	52	23	12
26	7.60	159	59	59	760	603	953	192	114	50	22	11
27	7.60	191	50	63	774	574	814	177	111	47	21	10
28	6.00	235	41	81	714	513	574	158	109	44	20	9.60
29	5.20	171	38	72	603	524	598	162	104	44	20	8.80
30	5.20	132	36	74	502	603	604	154	98	42	20	8.80
31	109	109	66	66	446	520	520	91	91	41	20	8.00
Total	262.80	1,720.80	2,113	3,178	10,543	18,984	25,906	6,327	7,169	2,069	900	418.20
Mean	8.76	55.5	70.4	102	340	633	836	211	231	66.7	32.1	13.5
Max.	12	246	126	280	1,246	976	1,412	449	604	88	42	19
Min.	5.20	5.60	36	35	52	387	406	154	91	41	20	8.00
Runoff - mcm.	22.706	148.677	182.563	274.579	911.434	1,640.218	2,238.278	546.653	619.402	178.762	77.760	36.132

WATER YEAR 1960 : Max. 1,412 Min. 5.20 Mean 218 Annual Runoff 6,877.163 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	11.00	107.53	1,450				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Ping River at Tha Khae, Tak (P.2)

Location: Lat 16° - 51' - 14" N, Long 99° - 02' - 50" E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,827 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +104.29 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the south corner of Wat Chaichana Songkhram Temple.
Elevation: +110.290 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 - 39, 1942 - 45, 1950 to date.

Rating Operation:

Period of Rating: 1952 - 60, 1963 to date.
Rated by Float: -
Rated by Current Meter: 1952 - 60, 1963 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

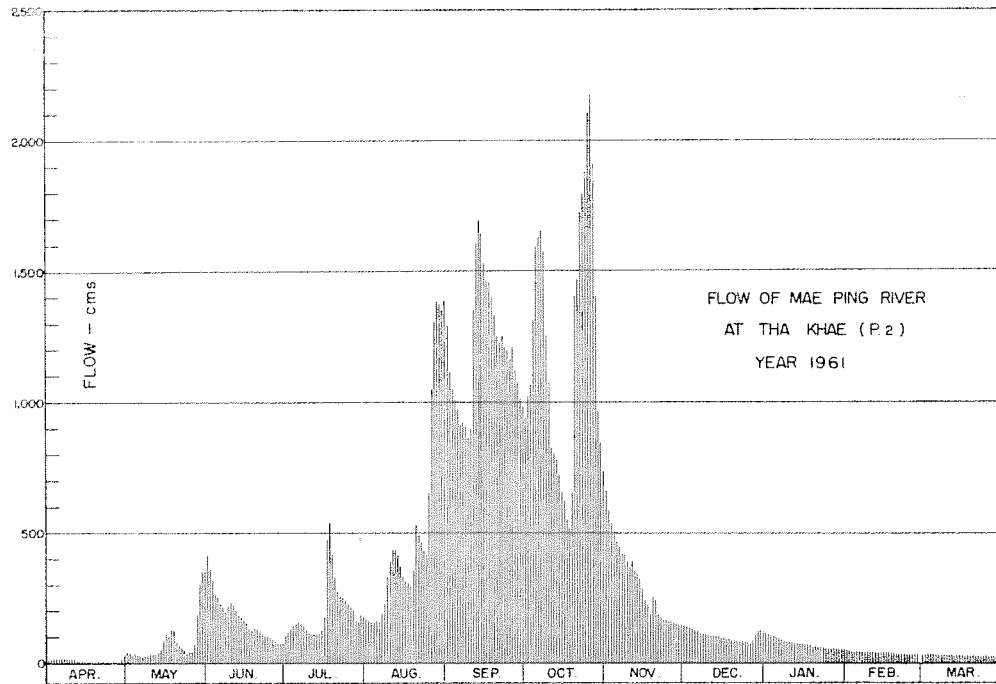
Overbank Flow Conditions: No overbank flow.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1952-60. Upstream state diversions for irrigation of about 40,300 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	104.63	105.05	106.19	105.42	105.65	107.35	106.96	106.59	105.56	105.47	105.12	104.98
2	.67	.03	.10	.48	.62	.16	107.06	.48	.55	.46	.11	.98
3	.72	104.93	.00	.52	.61	.09	.11	.40	.54	.44	.10	.97
4	.78	105.01	105.89	.55	.61	.04	.37	.34	.53	.43	.10	.97
5	.82	104.98	.87	.59	.63	.00	.64	.29	.51	.41	.10	.97
6	104.81	104.97	105.80	105.60	105.61	106.93	107.67	106.25	105.49	105.40	105.10	104.96
7	.79	.92	.78	.58	.71	.94	.69	.19	.48	.37	.09	.96
8	.77	.92	.71	.55	.80	.92	.62	.20	.47	.34	.09	.96
9	.75	.94	.77	.51	106.03	.87	.31	.16	.46	.32	.09	.96
10	.73	.99	.81	.47	.15	.91	.12	.11	.45	.32	.08	.96
11	104.67	104.97	105.79	105.46	106.22	107.41	106.82	106.16	105.44	105.31	105.08	104.96
12	.63	.98	.74	.46	.23	.65	.79	.08	.43	.30	.08	.96
13	.62	105.05	.69	.46	.19	.73	.76	.06	.42	.30	.07	.95
14	.62	.17	.67	.48	.12	.69	.69	.01	.42	.29	.07	.95
15	.61	.32	.64	.53	.04	.58	.59	105.94	.40	.28	.07	.95
16	104.59	105.46	105.59	105.69	105.99	107.52	106.54	105.84	105.40	105.27	105.06	104.95
17	.58	.44	.53	106.38	.88	.51	.43	.80	.39	.26	.06	.95
18	.58	.51	.51	.42	.86	.46	.38	.69	.38	.25	.05	.94
19	.59	.50	.53	.23	106.08	.39	.58	.86	.36	.24	.04	.94
20	.59	.35	.53	.06	.39	.31	107.08	.85	.34	.23	.04	.94
21	104.58	105.22	105.52	105.94	106.33	107.28	107.52	105.69	105.33	105.22	105.03	104.94
22	.56	.20	.46	.86	.28	.31	.76	.67	.32	.21	.03	.94
23	.55	.12	.43	.86	.22	.26	.82	.64	.32	.20	.02	.94
24	.54	.04	.42	.84	.19	.25	.89	.63	.31	.19	.02	.93
25	.54	.68	.40	.81	.58	.21	108.07	.62	.31	.18	.01	.93
26	104.53	105.10	105.38	105.77	107.09	107.26	108.12	105.61	105.30	105.18	105.00	104.93
27	.60	.27	.32	.74	.36	.17	107.91	.59	.34	.17	104.99	.93
28	.61	.70	.31	.66	.44	.12	.46	.58	.44	.16	.98	.93
29	.69	.97	.28	.61	.43	.05	106.99	.57	.49	.15	.93	.93
30	.67	106.07	.29	.69	.41	.02	.56	.56	.52	.14	.92	.92
31	.07	.07	.66	.44	.44	.69	.69	.49	.49	.13	.92	.92
Mean	104.66	105.56	105.63	105.70	106.26	107.25	107.29	105.94	105.42	105.28	105.06	104.95
Max.	104.82	106.07	106.19	106.42	107.44	107.73	108.12	106.59	105.56	105.47	105.12	104.98
Min.	104.53	104.92	105.28	105.42	105.61	106.87	106.38	105.56	105.30	105.13	104.98	104.92

WATER YEAR 1961 : Max. 108.12 m. Min. 104.53 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.40	41	414	103	172	1,294	937	660	143	116	49	33
2	11	38	365	118	162	1,114	1,024	587	140	113	48	33
3	14	28	316	130	159	1,050	1,068	536	136	108	48	32
4	17	36	265	140	159	1,006	1,314	500	133	105	46	32
5	20	33	257	149	165	971	1,593	470	127	100	46	32
6	19	32	228	155	159	913	1,625	448	121	98	46	31
7	18	27	220	149	193	921	1,646	414	118	91	45	31
8	17	27	193	140	228	905	1,572	420	116	85	45	31
9	16	29	216	127	331	864	1,255	398	113	82	45	31
10	14	34	232	116	392	896	1,078	371	111	82	44	31
11	11	32	224	113	431	1,354	824	398	108	80	44	31
12	8.40	33	204	113	436	1,604	800	355	105	78	44	31
13	7.80	41	185	113	414	1,692	778	345	103	78	43	30
14	7.80	57	178	118	376	1,646	728	321	103	76	43	30
15	7.20	82	168	133	335	1,530	660	288	98	74	43	30
16	6.00	113	152	185	311	1,467	626	244	98	73	42	30
17	5.60	108	133	524	261	1,457	555	228	95	71	42	30
18	5.60	127	127	549	253	1,405	524	185	93	70	41	29
19	6.00	124	133	436	355	1,333	653	253	89	68	39	29
20	6.00	87	133	345	530	1,255	1,041	249	85	66	39	29
21	5.60	65	130	288	494	1,227	1,467	185	84	65	38	29
22	4.80	62	113	253	464	1,255	1,726	178	82	63	38	29
23	4.40	49	105	253	431	1,208	1,726	168	82	62	37	29
24	4.00	39	103	244	414	1,198	1,880	165	80	60	37	28
25	4.00	44	98	232	653	1,161	2,105	162	80	58	36	28
26	3.60	46	93	216	1,050	1,208	2,170	159	78	58	35	28
27	6.60	73	82	204	1,304	1,124	1,905	152	85	57	34	28
28	7.20	189	80	175	1,384	1,078	1,405	149	108	55	33	28
29	12	302	74	159	1,374	1,015	962	146	121	54	33	28
30	32	350	76	185	1,354	988	848	143	130	52	33	27
31		350		175	1,384		728		121	51		27
Total	310	2,698	5,297	6,340	16,128	36,139	37,293	9,277	3,286	2,349	1,168	925
Mean	10.3	87.1	178	204	523	1,205	1,203	309	106	75.8	41.7	29.8
Max.	32	350	414	549	1,384	1,692	2,170	660	143	116	49	33
Min.	3.60	27	74	103	159	864	524	143	78	51	33	27
Runoff - mcm.	26.784	233.107	457.661	547.776	1,401.408	3,122.410	3,222.115	801.533	283.910	202.954	100.915	79.920

WATER YEAR 1961 : Max. 2,170 Min. 3.60 Mean 332 Annual Runoff 10,472.544 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	09.00	108.12	2,170				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Ping River at Tha Khae, Tak (P.2)

Location: Lat 16° - 51' - 14" N, Long 99° - 02' - 50" E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,827 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +104.29 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the south corner of Wat Chaichana Songkhram Temple.
Elevation: +110.290 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 - 39, 1942 - 45, 1950 to date.

Rating Operation:

Period of Rating: 1952 - 60, 1963 to date.
Rated by Float: -
Rated by Current Meter: 1952 - 60, 1963 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment but periodic rating curves are used for flow computation.

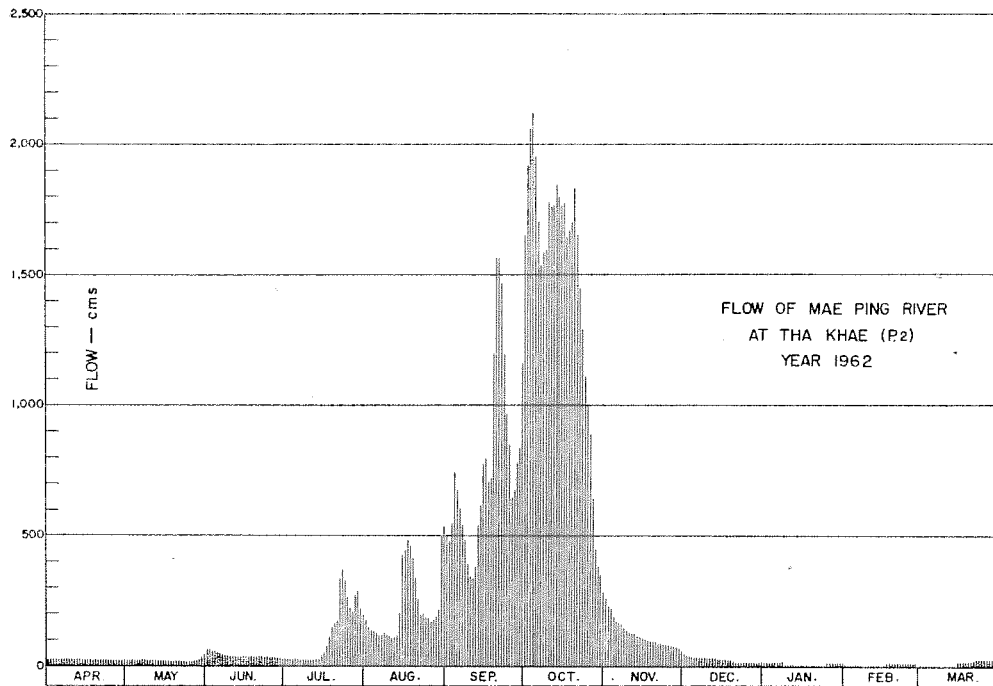
Overbank Flow Conditions: No overbank flow.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1952 - 60 and 1960 - 63. Upstream state diversions for irrigation of about 40,300 hectares. Since Nov.25, flow regulated by the closure at Yanhee Reservoir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	104.92	104.85	105.20	104.93	105.67	106.35	107.77	105.88	105.11	104.60	104.45	104.37
2	.92	.85	.20	.92	.60	.30	.92	.80	.05	.58	.45	.37
3	.92	.85	.16	.91	.54	.46	108.03	.78	.01	.57	.45	.37
4	.92	.84	.16	.90	.53	.71	.08	.69	104.98	.57	.44	.37
5	.91	.84	.12	.89	.52	.61	107.95	.64	.98	.55	.44	.36
6	104.91	104.84	105.08	104.88	105.48	106.47	107.74	105.62	104.98	104.54	104.44	104.36
7	.91	.84	.06	.87	.48	.41	.58	.61	.97	.52	.43	.36
8	.91	.84	.04	.86	.51	.31	.63	.56	.97	.52	.43	.36
9	.91	.84	.03	.85	.49	.15	.64	.54	.97	.52	.43	.36
10	.90	.83	.02	.84	.46	.06	.80	.51	.97	104.51	.43	.35
11	104.90	104.83	105.02	104.84	104.44	106.04	107.79	105.51	104.97	104.51	104.42	104.35
12	.90	.83	.02	.82	.45	.12	.79	.50	.97	.51	.42	.35
13	.89	.83	.00	.89	.48	.40	.86	.48	.96	.50	.42	.35
14	.89	.82	.00	.93	.74	.53	.81	.45	.95	.50	.41	.49
15	.89	.82	.00	105.07	106.21	.75	.79	.43	.94	.49	.41	.60
16	104.89	104.81	105.03	105.13	106.24	106.78	107.80	105.42	104.94	104.49	104.41	104.65
17	.89	.81	.02	.31	.31	.65	.69	.41	.93	.49	.41	.66
18	.89	.81	.01	.46	.28	.68	.72	.39	.93	.48	.41	.68
19	.88	.81	.01	.58	.19	107.25	.74	.38	.91	.48	.40	.68
20	.88	.81	.01	.63	.04	.61	.85	.37	.90	.48	.40	.68
21	104.88	104.80	105.01	105.65	105.87	107.61	107.69	105.36	104.89	104.48	104.39	104.72
22	.88	.80	.00	106.04	.71	.52	.50	.34	.88	.47	.39	.76
23	.88	.80	.00	.11	.73	.35	.31	.34	.86	.47	.39	.77
24	.87	.79	104.99	.02	.69	.68	.15	.33	.84	.47	.39	.79
25	.87	.79	.98	105.88	.69	106.85	106.99	.32	.81	.47	.38	.79
26	104.87	104.79	104.96	105.80	105.44	106.57	106.90	105.31	104.78	104.47	104.38	104.79
27	.86	.82	.95	.74	.67	.62	.56	.30	.74	.47	.38	.79
28	.86	.85	.95	.91	.70	.76	.27	.29	.71	.47	.37	.80
29	.86	.83	.95	.94	.77	.83	.13	.28	.68	.46	.37	.80
30	.85	.99	.94	.80	106.33	107.19	.07	.20	.65	.46	.37	.80
31		105.06		.73	.40		105.93		.62	.46		.80
Mean	104.89	104.84	105.03	105.33	105.50	106.70	107.43	105.47	105.47	104.50	104.41	104.57
Max.	104.92	105.06	105.20	106.11	106.40	107.61	108.08	105.88	105.88	104.60	104.45	104.80
Min.	104.85	104.79	104.94	104.82	104.44	106.04	105.93	105.20	104.62	104.46	104.37	104.35

WATER YEAR 1962 : Max. 108.08 m. Min. 104.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	27	22	62	28	178	506	1,737	261	48	11	4.60	2.00
2	27	22	62	27	155	476	1,917	228	41	10	4.60	2.00
3	27	22	55	26	136	574	2,054	220	36	10	4.60	2.00
4	27	21	55	25	133	742	2,117	185	33	10	4.25	2.00
5	26	21	49	24	130	674	1,954	168	33	9.00	4.25	1.75
6	26	21	44	23	118	580	1,703	162	33	8.50	4.25	1.75
7	26	21	42	23	118	543	1,530	159	32	7.50	3.90	1.75
8	26	21	39	22	127	482	1,582	143	32	7.50	3.90	1.75
9	26	21	38	22	121	392	1,593	136	32	7.50	3.90	1.75
10	25	20	37	21	113	345	1,772	127	32	7.00	3.90	1.50
11	25	20	37	21	108	335	1,760	127	32	7.00	3.55	1.50
12	25	20	37	20	111	376	1,760	124	32	7.00	3.55	1.50
13	24	20	35	24	118	536	1,844	118	31	6.50	3.55	1.50
14	24	20	35	28	204	620	1,784	111	30	6.50	3.20	6.00
15	24	20	35	43	425	771	1,760	105	29	6.00	3.20	11
16	24	19	38	51	442	793	1,772	103	29	6.00	3.20	14
17	24	19	37	80	482	701	1,646	100	28	6.00	3.20	14
18	24	19	36	113	464	721	1,680	95	28	5.65	3.20	15
19	23	19	36	149	414	1,198	1,703	93	26	5.65	2.85	15
20	23	19	36	165	335	1,561	1,832	91	25	5.65	2.85	15
21	23	19	36	172	257	1,561	1,646	89	24	5.65	2.50	18
22	23	19	35	335	193	1,467	1,446	85	23	5.30	2.50	22
23	23	19	35	371	201	1,294	1,255	85	22	5.30	2.50	23
24	23	18	34	326	185	1,041	1,105	84	21	5.30	2.50	24
25	23	18	33	261	185	848	962	82	19	5.30	2.25	24
26	23	18	31	228	108	647	888	80	17	5.30	2.25	24
27	22	20	30	204	178	680	640	78	15	5.30	2.25	24
28	22	22	30	274	189	778	459	76	13	5.30	2.00	26
29	22	28	30	288	216	832	382	74	15	4.95		26
30	22	34	29	228	494	1,142	350	62	14	4.95		26
31		42		201	536		283		12	4.95		26
Total	729	664	1,168	3,823	7,174	23,216	44,916	3,651	837	207.55	93.25	360.75
Mean	24.3	21.4	38.9	123	231	774	1,449	122	27.0	6.69	3.33	11.6
Max.	27	42	62	371	536	1,561	2,117	261	48	11	4.60	26
Min.	22	18	29	20	108	336	283	62	12	4.95	2.00	1.50
Runoff - mcm.	62.986	57.370	100.915	330.307	619.834	2,005.862	3,880.742	315.446	72.317	17.932	8.057	31.169

WATER YEAR 1962 : Max. 2,117 Min. 1.50 Mean 238 Annual Runoff 7,502.937 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 4	06.00	108.09	2,130				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Taeng River at Mae Taeng Bridge, Chiang Mai (P.4A)

Location: Lat 19°-07' - 20" N, Long 98°-56' - 51" E, on left bank 5 meters downstream from bridge on highway, Chiang Mai - Fang, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,902 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +333.75 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.3

Location: On left bank at the bridge.
Elevation: +339.379 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 - 61
Rated by Float: -
Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, no shifting adjustment but periodic rating curves are used for flow computation.

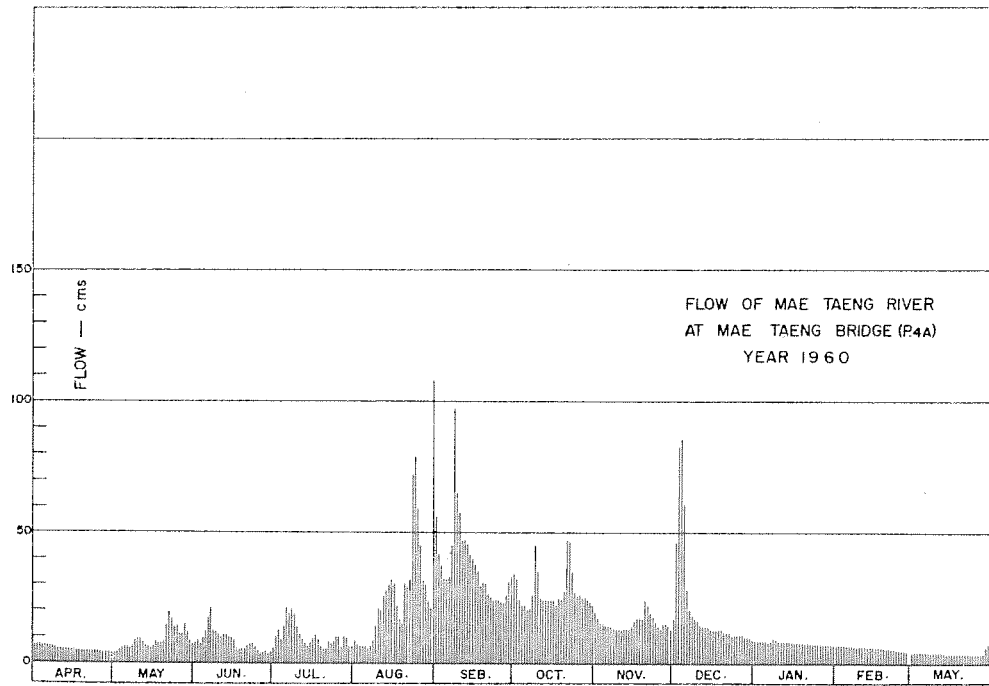
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.35	334.23	334.39	334.31	334.41	335.30	335.00	334.72	334.68	334.43	334.36	334.25
2	.36	.22	.43	.48	.36	.12	334.97	.67	335.18	.43	.36	.25
3	.36	.28	.37	.56	.33	.05	.62	.60	.43	.36	.24	.24
4	.35	.30	.47	.45	.35	.02	.72	.61	.62	.42	.36	.24
5	.35	.33	.53	.58	.35	334.98	.73	.60	.34	.42	.36	.23
6	334.34	334.33	334.69	334.77	334.30	335.00	334.67	334.58	334.90	334.41	334.35	334.23
7	.33	.32	.77	.72	.33	.16	.68	.58	.74	.42	.35	.23
8	.32	.31	.54	.76	.43	.68	.83	.57	.69	.44	.35	.22
9	.31	.42	.52	.71	.61	.41	335.17	.56	.66	.44	.35	.22
10	.30	.45	.51	.58	.81	.31	.01	.56	.64	.42	.35	.22
11	334.29	334.45	334.48	334.49	334.79	335.19	334.82	334.56	334.60	334.41	334.34	334.21
12	.29	.43	.51	.45	.92	.20	.78	.55	.59	.41	.34	.21
13	.28	.36	.51	.38	.96	.19	.78	.55	.58	.41	.34	.21
14	.28	.33	.47	.34	335.01	.11	.78	.55	.58	.41	.34	.20
15	.27	.30	.47	.40	.05	.10	.79	.59	.57	.40	.34	.20
16	334.27	334.35	334.44	334.45	335.02	335.07	334.78	334.64	334.56	334.40	334.33	334.20
17	.26	.41	.30	.49	334.83	.02	.74	.66	.56	.40	.32	.20
18	.25	.37	.29	.45	335.10	334.92	.81	.67	.55	.40	.32	.19
19	.25	.39	.30	.35	334.65	.94	.79	.68	.54	.40	.32	.19
20	.25	.42	.26	.30	335.02	.92	.89	.82	.53	.39	.31	.19
21	334.25	334.60	334.35	334.31	334.98	334.85	335.19	334.79	334.52	334.39	334.31	334.19
22	.24	.75	.37	.41	335.04	.82	.18	.72	.52	.39	.30	.19
23	.24	.66	.38	.39	.58	.80	334.99	.70	.51	.39	.29	.18
24	.24	.59	.33	.40	.59	.79	.87	.64	.51	.38	.28	.18
25	.24	.61	.28	.48	.42	.78	.82	.59	.50	.38	.27	.18
26	334.23	334.51	334.19	334.46	335.24	334.77	334.83	334.57	334.50	334.38	334.26	334.18
27	.23	.51	.22	.32	.01	.77	.81	.62	.49	.37	.26	.18
28	.23	.62	.24	.48	.01	.84	.80	.61	.48	.37	.25	.18
29	.22	.52	.20	.47	334.89	.95	.78	.59	.47	.37	.24	.18
30	.22	.43	.24	.34	.82	.99	.76	.57	.46	.37	.23	.18
31		.36		.33	335.91		.73		.45	.37		.18
Mean	334.28	334.42	334.40	334.46	334.87	335.03	334.85	334.62	334.68	334.40	334.32	334.22
Max.	334.36	334.75	334.77	334.77	335.91	335.68	335.19	334.82	335.62	334.44	334.36	334.37
Min.	334.22	334.22	334.19	334.31	334.30	334.77	334.67	334.55	334.45	334.37	334.25	334.18

WATER YEAR 1960 : Max. 335.91 m. Min. 334.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.70	4.30	7.70	5.80	8.30	33	34	19	17	8.90	7.00	4.60
2	7.00	4.10	8.90	10	7.00	41	32	17	46	8.90	7.00	4.60
3	7.00	5.20	7.20	13	6.20	37	22	15	82	8.90	7.00	4.50
4	6.70	5.60	10	9.50	6.70	32	22	15	85	8.60	7.00	4.50
5	6.70	6.20	12	14	6.70	32	22	14	58	8.60	7.00	4.30
6	6.50	6.20	18	21	5.60	33	20	14	28	8.30	6.70	4.30
7	6.20	6.00	21	19	6.70	44	21	14	20	8.60	6.70	4.30
8	6.00	5.80	12	21	8.90	97	26	13	18	9.20	6.70	4.10
9	5.80	8.60	12	19	14	64	45	13	17	9.20	6.70	4.10
10	5.60	9.50	11	14	21	56	34	13	16	8.60	6.70	4.10
11	5.40	9.50	10	11	20	46	25	13	15	8.30	6.50	4.00
12	5.40	8.90	11	9.50	26	47	24	13	14	8.30	6.50	4.00
13	5.20	7.00	11	7.50	28	46	24	13	14	8.30	6.50	4.00
14	5.20	6.20	10	6.50	30	41	24	13	14	8.30	6.50	3.80
15	5.00	5.60	10	8.00	32	40	24	14	13	8.00	6.50	3.80
16	5.00	6.70	9.20	9.50	31	38	24	16	13	8.00	6.00	3.80
17	4.80	8.30	5.60	11	22	35	22	17	13	8.00	6.00	3.80
18	4.60	7.20	5.40	9.50	17	29	25	17	13	8.00	6.00	3.60
19	4.60	7.70	5.60	6.70	15	31	24	17	13	8.00	6.00	3.60
20	4.60	8.60	4.80	5.60	31	30	28	24	12	7.70	5.80	3.60
21	4.60	14	6.70	5.80	29	26	47	22	12	7.70	5.80	3.60
22	4.50	20	7.20	8.30	32	25	46	19	12	7.70	5.60	3.60
23	4.50	17	7.50	7.70	72	24	33	18	11	7.70	5.40	3.50
24	4.50	14	6.20	8.00	79	24	27	16	11	7.50	5.20	3.50
25	4.50	15	5.20	10	59	24	25	14	11	7.50	5.00	3.50
26	4.30	11	3.60	10	44	23	26	13	11	7.50	4.80	3.50
27	4.30	11	4.10	6.00	30	23	25	15	11	7.20	4.80	3.50
28	4.30	15	4.50	10	30	26	25	15	10	7.20	4.60	3.50
29	4.10	12	3.80	10	24	31	24	14	10	7.20	4.60	3.50
30	4.10	8.90	4.50	6.50	21	33	23	13	10	7.20	4.60	3.50
31		7.00		6.20	108		22		9.50	7.20		5.00
Total	157.70	282.10	255.70	319.60	871.10	1,133	845	463	639.50	250.30	172.00	128.30
Mean	5.26	9.10	8.52	10.31	28.1	37.8	27.2	15.4	20.6	8.07	6.14	4.14
Max.	7.00	20	21	21	108	97	47	24	85	9.20	7.00	7.20
Min.	4.10	4.10	3.60	5.60	5.60	23	20	13	9.50	7.20	4.60	3.50
Runoff - BCM.	13.625	24.373	22.092	27.613	75.263	97.891	73.008	40.003	55.253	21.626	14.861	11.085

WATER YEAR 1960 : Max. 108 Min. 3.50 Mean 15.1 Annual Runoff 476.695 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 31	18.00	535.94	112				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Taeng River at Mae Taeng Bridge, Chiang Mai (P.4A)

Location: Lat 19° - 07' - 20" N, Long 98° - 56' - 51" E, on left bank 5 meters downstream from bridge on highway, Chiang Mai-Fang, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,902 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +333.75 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.3

Location: On left bank at the bridge.

Elevation: +339.379 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 - 61

Rated by Float: -

Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

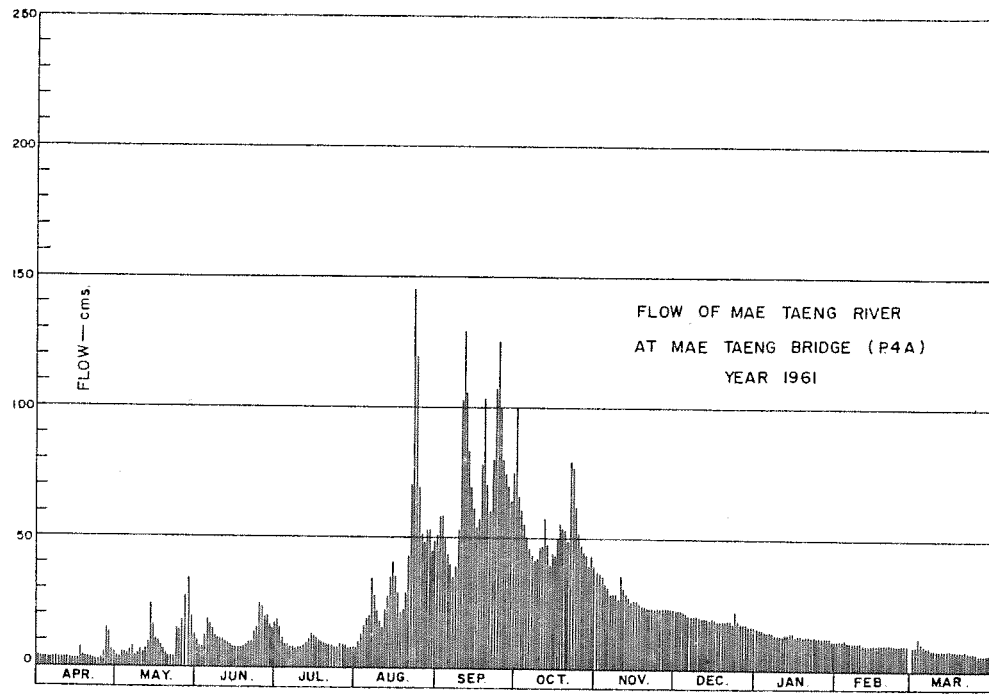
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1955 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.19	334.20	334.45	334.70	334.38	335.29	335.85	335.09	334.82	334.66	334.52	334.43
2	.18	.20	.39	.73	.49	.38	.48	.07	.82	.65	.51	.43
3	.18	.30	.39	.57	.58	.38	.41	.05	.81	.64	.51	.54
4	.17	.27	.56	.50	.68	.26	.34	.90	.80	.63	.50	.46
5	.17	.25	.74	.43	.75	.17	.27	334.97	.79	.62	.50	.41
6	334.17	334.32	334.69	334.41	334.67	335.12	335.21	334.94	334.78	334.61	334.49	334.40
7	.16	.36	.63	.39	335.04	.06	.17	.94	.78	.60	.49	.40
8	.16	.25	.52	.38	334.93	.06	.15	.93	.77	.59	.48	.39
9	.16	.23	.50	.37	.81	.31	.16	.91	.77	.58	.48	.39
10	.15	.31	.50	.36	.71	.82	.22	335.05	.77	.58	.48	.38
11	334.15	334.25	334.48	334.39	334.62	336.09	335.24	334.96	334.76	334.58	334.47	334.38
12	.15	.35	.46	.42	.86	335.79	.37	.94	.76	.58	.47	.37
13	.14	.52	.44	.45	.93	.55	.19	.91	.76	.57	.47	.37
14	.14	.86	.42	.50	335.05	.52	.07	.89	.75	.57	.46	.36
15	.14	.51	.39	.58	.13	.41	.19	.90	.75	.57	.46	.36
16	334.13	334.48	334.37	334.56	335.02	335.32	335.16	334.91	334.75	334.56	334.46	334.35
17	.35	.44	.35	.52	334.90	.35	.27	.89	.74	.57	.46	.35
18	.39	.39	.35	.48	.78	.64	.34	.86	.74	.57	.45	.34
19	.25	.32	.39	.44	.84	.88	.29	.86	.73	.56	.45	.34
20	.20	.24	.42	.44	.95	.47	.31	.85	.73	.56	.45	.34
21	334.16	334.20	334.45	334.43	335.14	335.35	335.25	334.84	334.72	334.56	334.45	334.33
22	.15	.20	.51	.42	.45	.60	.64	.84	.72	.56	.45	.32
23	.14	.18	.60	.41	336.21	.88	.61	.84	.71	.56	.44	.32
24	.13	.66	.68	.38	335.96	336.06	.36	.83	.82	.55	.44	.31
25	.13	.53	.88	.37	.47	335.62	.29	.83	.72	.55	.44	.31
26	334.27	334.73	334.83	334.45	335.26	335.64	335.24	334.83	334.71	334.56	334.44	334.30
27	.60	.92	.76	.42	.25	.59	.19	.84	.71	.54	.44	.30
28	.54	335.03	.75	.40	.31	.54	.17	.85	.70	.54	.43	.30
29	.34	334.89	.64	.37	.31	.44	.10	.84	.69	.53	.43	.30
30	.27	.71	.60	.38	.20	.51	.18	.83	.68	.53	.43	.30
31		.55			.26		.11		.67	.52		.30
Mean	334.21	334.44	334.54	334.45	335.03	335.50	335.28	334.91	334.75	334.57	334.47	334.36
Max.	334.60	335.03	334.88	334.73	336.21	336.09	335.85	335.09	334.82	334.66	334.52	334.54
Min.	334.13	334.18	334.35	334.37	334.38	335.06	335.07	334.83	334.67	334.52	334.43	334.30

WATER YEAR 1961 : Max. 336.21 m. Min. 334.13 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.56	3.80	9.40	17	7.72	51	100	37	22	15	11	8.92
2	3.52	3.80	7.96	18	10	58	66	36	22	15	11	8.92
3	3.52	5.80	7.96	13	13	58	60	35	22	15	11	12
4	3.38	5.20	12	11	16	49	55	32	21	14	11	9.64
5	3.38	4.80	18	8.92	19	43	50	30	21	14	11	8.44
6	3.38	6.28	16	8.44	16	39	45	28	20	14	10	8.20
7	3.24	7.24	14	7.96	34	35	43	28	20	14	10	8.20
8	3.24	4.80	11	7.72	27	35	41	28	20	13	10	7.96
9	3.24	4.40	11	7.48	21	53	42	26	20	13	10	7.96
10	3.10	6.04	11	7.24	17	96	46	35	20	13	10	7.72
11	3.10	4.80	10	7.96	14	129	47	29	19	13	9.88	7.72
12	3.10	7.00	9.64	8.68	23	93	57	28	19	13	9.88	7.48
13	2.96	11	9.16	9.40	27	71	44	26	19	13	9.88	7.48
14	2.96	24	8.68	11	35	69	37	25	19	13	9.64	7.24
15	2.96	11	7.96	13	40	60	44	26	19	13	9.64	7.24
16	2.82	11	7.48	12	33	54	42	26	19	12	9.64	7.00
17	7.00	9.16	7.00	11	26	56	50	25	18	13	9.64	7.00
18	7.96	7.96	7.00	10	20	79	55	24	18	13	9.40	6.76
19	4.80	6.28	7.96	9.16	23	103	51	24	18	12	9.40	6.76
20	3.80	4.60	8.68	9.16	29	65	53	23	18	12	9.30	6.52
21	3.24	3.80	9.40	8.92	41	56	48	23	18	12	9.40	6.52
22	3.10	3.80	11	8.68	63	75	79	23	18	12	9.40	6.28
23	2.96	3.52	14	8.44	145	103	76	23	17	12	9.16	6.28
24	2.82	15	16	7.72	112	125	57	23	22	12	9.16	6.04
25	2.82	14	25	7.48	65	77	51	23	18	12	9.16	6.04
26	5.10	18	23	9.40	49	79	47	23	17	12	9.16	5.80
27	14	27	19	8.68	48	74	44	23	17	12	9.16	5.80
28	12	34	19	8.20	53	70	43	23	17	12	8.92	5.80
29	6.76	25	15	7.48	53	63	38	23	16	11	8.92	5.80
30	5.20	17	14	7.48	44	68	43	23	16	11	8.92	5.80
31		12		7.72	49		39		16	11		5.80
Total	133.02	332.08	369.28	298.32	1,172.72	2,086	1,593	801	586	396	274.92	225.12
Mean	4.45	10.4	12.3	9.62	37.8	69.5	51.4	26.7	18.9	12.8	9.82	7.26
Max.	14	34	25	17	145	129	100	37	22	15	11	12
Min.	2.82	3.52	7.00	7.24	7.72	35	37	23	16	11	8.92	5.80
Runoff - BCM.	11.493	27.828	31.906	25.775	101.323	180.230	137.635	69.206	50.630	34.214	23.753	19.450

WATER YEAR 1961 : Max. 145 Min. 2.82 Mean 22 Annual Runoff 713.272 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23	12.00	336.34	168				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
PING RIVER BASIN

Mae Taeng River at Mae Taeng Bridge, Chiang Mai (P.4A)

Location: Lat 19° - 07' - 20" N, Long 98° - 56' - 51" E, on left bank 5 meters downstream from bridge on highway Chiang Mai - Fang, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,902 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +333.75 m.(M.S.L.)

Bench Mark: B.M. - H.S./ R.I.D.No.3

Location: On left bank at the bridge.

Elevation: +339.379 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 - 61

Rated by Float: -

Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

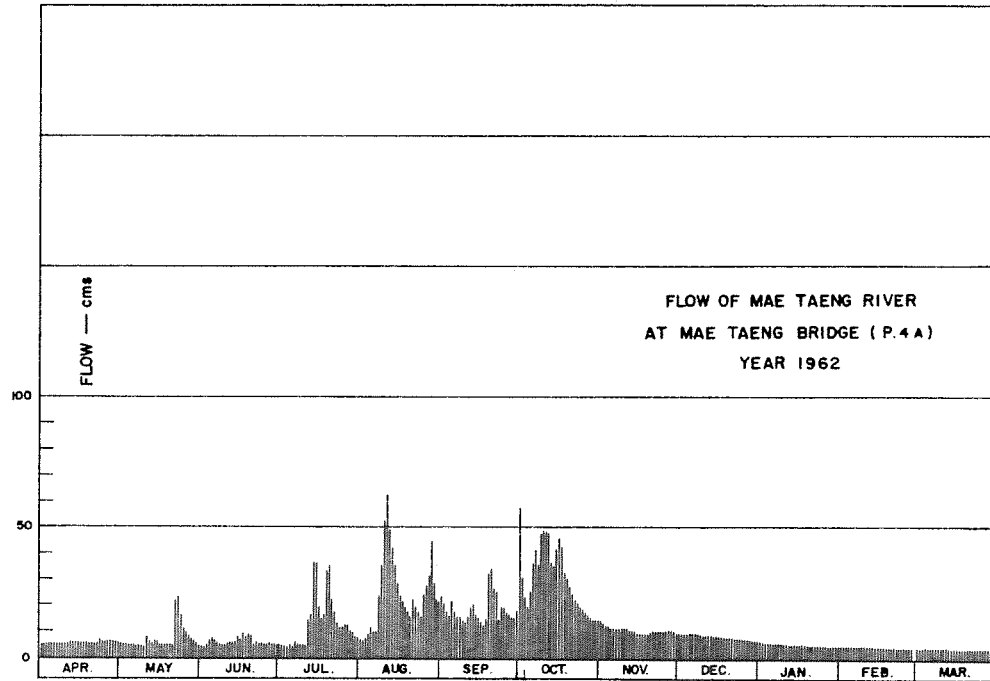
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1955 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.29	334.29	334.24	334.27	334.37	334.86	335.41	334.63	334.49	334.35	334.27	334.22
2	.29	.28	.23	.26	.36	.79	.00	.61	.49	.35	.27	.21
3	.29	.27	.29	.25	.39	.71	334.85	.59	.48	.34	.26	.21
4	.29	.27	.38	.24	.46	.68	.77	.57	.48	.34	.26	.21
5	.28	.26	.40	.28	.53	.82	.90	.56	.47	.33	.26	.21
6	334.28	334.26	334.36	334.25	334.47	334.72	335.11	334.55	334.47	334.33	334.26	334.21
7	.28	.25	.32	.32	.51	.68	.19	.56	.46	.32	.26	.20
8	.28	.25	.29	.29	.86	.66	.08	.54	.46	.32	.26	.20
9	.27	.24	.26	.27	335.08	.64	.27	.54	.45	.31	.26	.20
10	.27	.24	.28	.26	.34	.61	.29	.53	.45	.31	.25	.20
11	334.27	334.41	334.30	334.25	335.48	334.70	335.29	334.53	334.45	334.31	334.25	334.20
12	.31	.31	.32	.65	.31	.77	.27	.52	.44	.30	.25	.19
13	.30	.30	.32	.69	.20	.79	.11	.51	.44	.30	.25	.19
14	.30	.35	.33	335.11	.09	.70	.08	.50	.44	.30	.25	.19
15	.30	.33	.42	.11	334.96	.67	.18	.49	.43	.30	.24	.19
16	334.29	334.30	334.37	334.80	334.89	334.61	335.24	334.48	334.43	334.29	334.24	334.19
17	.29	.29	.46	.66	.81	.58	.20	.49	.43	.29	.24	.18
18	.29	.28	.41	.70	.76	.67	.04	.49	.42	.29	.24	.18
19	.29	.27	.45	335.03	.71	335.04	.00	.48	.42	.29	.24	.18
20	.28	.26	.42	.08	.68	.06	334.95	.49	.41	.29	.23	.18
21	334.28	334.26	334.39	334.87	334.83	334.93	334.88	334.50	334.41	334.28	334.23	334.18
22	.28	.82	.34	.72	.78	.79	.84	.51	.40	.28	.23	.17
23	.36	.87	.30	.60	.72	.66	.81	.52	.40	.28	.23	.17
24	.31	.69	.30	.55	.67	.77	.77	.51	.39	.28	.23	.17
25	.31	.56	.29	.56	.88	.78	.74	.50	.39	.28	.22	.17
26	334.32	334.48	334.29	334.58	334.95	334.72	334.72	334.50	334.38	334.28	334.22	334.17
27	.33	.43	.32	.59	335.02	.70	.69	.51	.38	.27	.22	.17
28	.32	.37	.30	.52	.23	.68	.67	.50	.37	.27	.22	.16
29	.31	.33	.29	.48	334.97	.67	.65	.50	.37	.27	.22	.16
30	.30	.30	.28	.43	.85	.75	.64	.49	.36	.27	.22	.16
31	.27	.27	.40	.81	.81	.63	.63	.36	.36	.27	.22	.16
Mean	334.29	334.36	334.33	334.55	334.84	334.74	334.98	334.52	334.43	334.30	334.24	334.19
Max.	334.36	334.87	334.46	335.11	335.48	335.06	335.41	334.63	334.49	334.35	334.27	334.22
Min.	334.27	334.24	334.23	334.24	334.36	334.58	334.63	334.48	334.36	334.27	334.22	334.16

WATER YEAR 1962 : Max. 335.48 m. Min. 334.16 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.63	5.63	4.78	5.29	7.34	24	58	15	10	6.90	5.29	4.44
2	5.63	5.46	4.61	5.12	7.12	21	31	14	10	6.90	5.29	4.27
3	5.63	5.29	5.63	4.95	7.78	18	23	13	10	6.68	5.12	4.27
4	5.63	5.29	7.56	4.78	9.56	16	20	13	10	6.68	5.12	4.27
5	5.46	5.12	8.00	5.46	11	22	26	12	9.82	6.46	5.12	4.27
6	5.46	5.12	7.12	4.95	9.82	18	37	12	9.82	6.46	5.12	4.27
7	5.46	4.95	6.24	6.24	11	16	42	12	9.56	6.24	5.12	4.10
8	5.46	4.95	5.63	5.63	24	16	36	12	9.56	6.24	5.12	4.10
9	5.29	4.78	5.12	5.29	36	15	48	12	9.30	6.02	5.12	4.10
10	5.29	4.78	5.46	5.12	53	14	49	12	9.30	6.02	4.95	4.10
11	5.29	8.26	5.80	4.95	63	17	49	12	9.30	6.02	4.95	4.10
12	6.02	6.02	6.24	15	50	20	48	11	9.04	5.80	4.95	3.97
13	5.80	5.80	6.24	17	43	21	37	11	9.04	5.80	4.95	3.97
14	5.80	6.90	6.46	37	36	17	36	11	9.04	5.80	4.95	3.97
15	5.80	6.46	8.52	37	29	16	42	10	8.78	5.80	4.78	3.97
16	5.63	5.80	7.34	21	25	14	46	10	8.78	5.63	4.78	3.97
17	5.63	5.63	9.56	16	22	13	43	10	8.78	5.63	4.78	3.84
18	5.63	5.46	8.26	17	20	17	33	10	8.52	5.63	4.78	3.84
19	5.63	5.29	9.30	33	18	33	31	10	8.52	5.63	4.78	3.84
20	5.46	5.12	8.52	36	16	35	28	10	8.26	5.63	4.61	3.84
21	5.46	5.12	7.78	24	23	27	25	11	8.26	5.46	4.61	3.84
22	5.46	22	6.68	18	20	21	23	11	8.00	5.46	4.61	3.71
23	7.12	24	5.80	14	18	16	22	11	8.00	5.46	4.61	3.71
24	6.02	17	5.80	12	16	20	20	11	7.78	5.46	4.61	3.71
25	6.02	12	5.63	12	25	20	19	11	7.78	5.46	4.44	3.71
26	6.24	10	5.63	13	28	18	18	11	7.56	5.46	4.44	3.71
27	6.46	8.78	6.24	13	32	17	17	11	7.56	5.29	4.44	3.71
28	6.24	7.34	5.80	11	45	16	16	11	7.34	5.29	4.44	3.58
29	6.02	6.46	5.63	10	29	16	15	11	7.34	5.29		3.58
30	5.80	5.80	5.46	8.78	23	19	15	10	7.12	5.29		3.58
31		5.29		8.00	22		15		7.12	5.29		3.58
Total	172.47	235.90	196.84	430.56	779.62	572	968	341	269.28	181.18	135.88	121.92
Mean	5.75	7.61	6.56	13.9	25.1	19.1	31.2	11.4	8.69	5.84	4.85	3.93
Max.	7.12	24	9.56	37	63	35	58	15	10	6.90	5.29	4.44
Min.	5.29	4.78	4.61	4.78	7.12	13	15	10	7.12	5.29	4.44	3.58
Runoff - mcm.	14.901	20.382	17.007	37.200	67.359	49.421	83.635	29.462	23.266	15.654	11.740	10.534

WATER YEAR 1962 : Max. 63 Min. 3.58 Mean 12.1 Annual Runoff 380.562 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11	06.00	335.54	69				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Taeng River at Huai San, Chiang Mai (P.4B)

Location: Lat 19°- 10' - 20" N, Long 98°- 55' - 05" E, on left bank at Ban Pa Fat, 1 kilometer upstream from the district office of Amphoe Mae Taeng, and 7.5 kilometers downstream from Kaeng Kut, Chiang Mai.

Drainage Area: 1,833 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +343.84 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

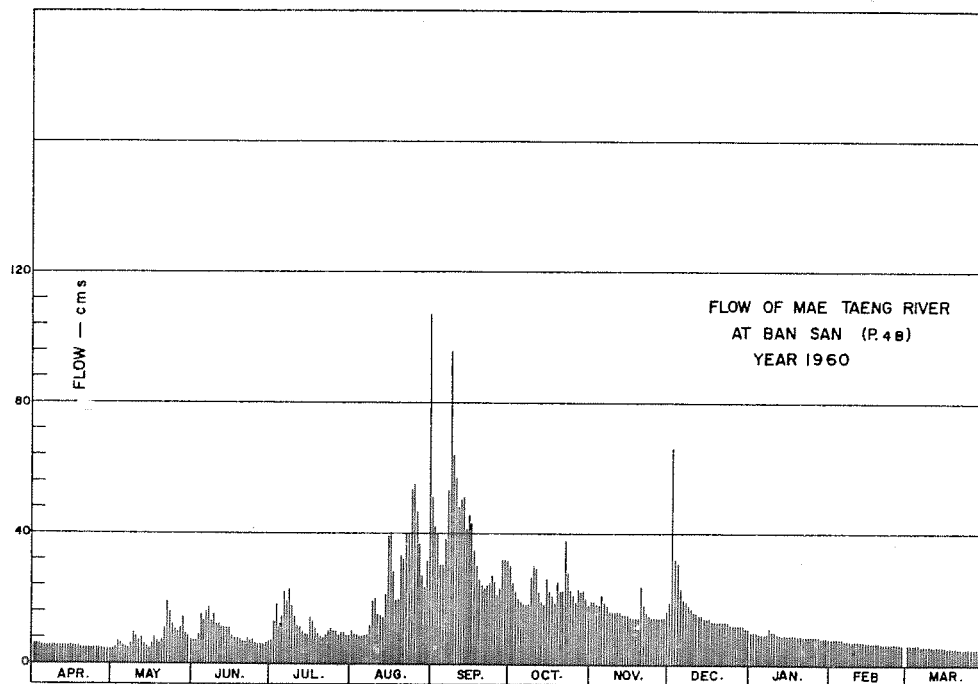
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	344.33	344.29	344.36	344.36	344.45	345.23	344.88	344.62	344.60	344.44	344.38	344.33
2	.33	.30	.36	.52	.42	.08	.77	.60	345.44	.44	.38	.33
3	.33	.35	.41	.63	.41	.05	.72	.59	344.89	.44	.38	.33
4	.32	.35	.57	.47	.40	344.88	.68	.58	.88	.42	.38	.33
5	.32	.32	.52	.56	.40	.87	.65	.65	.71	.42	.38	.32
6	344.32	344.31	344.59	344.72	344.40	345.02	344.63	344.60	344.64	344.42	344.37	344.32
7	.32	.30	.61	.66	.41	.26	.62	.58	.60	.42	.37	.32
8	.32	.33	.52	.75	.45	.80	.62	.54	.58	.46	.36	.32
9	.32	.42	.56	.64	.66	.42	.82	.53	.56	.44	.36	.32
10	.32	.41	.50	.57	.68	.31	.87	.53	.54	.44	.36	.32
11	344.32	344.36	344.50	344.50	344.56	345.18	344.85	344.53	344.53	344.42	344.36	344.31
12	.32	.39	.48	.46	.56	.21	.71	.53	.52	.42	.36	.31
13	.31	.34	.46	.44	.54	.23	.66	.51	.51	.41	.36	.31
14	.31	.32	.47	.42	.70	.07	.63	.51	.50	.41	.35	.31
15	.31	.30	.46	.40	345.03	.14	.80	.51	.49	.41	.35	.31
16	344.31	344.34	344.40	344.54	345.04	345.10	344.72	344.50	344.49	344.41	344.35	344.30
17	.31	.39	.38	.51	344.83	344.96	.70	.50	.48	.41	.35	.30
18	.31	.35	.38	.47	.66	.88	.66	.50	.48	.41	.35	.30
19	.30	.34	.37	.42	.66	.80	.77	.49	.48	.40	.35	.30
20	.30	.37	.35	.40	.92	.76	.71	.73	.48	.40	.34	.30
21	344.30	344.47	344.35	344.38	344.91	344.74	344.72	344.59	344.48	344.40	344.34	344.29
22	.29	.65	.38	.40	345.04	.75	345.01	.55	.47	.40	.34	.29
23	.29	.58	.36	.45	.05	.76	344.83	.52	.47	.40	.34	.29
24	.30	.50	.37	.47	.25	.82	.74	.50	.46	.40	.34	.29
25	.30	.46	.34	.44	.28	.77	.70	.49	.46	.40	.34	.28
26	344.29	344.43	344.33	344.44	345.16	344.70	344.66	344.49	344.45	344.40	344.34	344.28
27	.29	.47	.33	.41	344.99	.73	.74	.49	.45	.40	.33	.28
28	.29	.53	.33	.43	.82	.91	.72	.49	.45	.39	.33	.30
29	.28	.42	.34	.43	.73	.90	.71	.50	.45	.39	.33	.29
30	.28	.41	.36	.41	.90	.90	.67	.55	.44	.39	.33	.29
31		.37		.41	345.92		.64		.44	.38		.32
Mean	344.31	344.39	344.42	344.49	344.78	345.01	344.73	344.54	344.56	344.41	344.35	344.31
Max.	344.33	344.65	344.61	344.73	345.92	345.80	345.01	344.73	345.44	344.46	344.38	344.34
Min.	344.28	344.29	344.33	344.36	344.40	344.70	344.62	344.49	344.44	344.38	344.33	344.28

WATER YEAR 1960 : Max. 345.92 m. Min. 344.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.90	4.60	7.00	7.00	10	51	30	19	19	10	7.70	5.90
2	5.90	4.80	7.00	13	9.20	42	25	19	66	10	7.70	5.90
3	5.90	6.60	8.80	18	8.80	40	22	18	32	10	7.70	5.90
4	5.50	6.60	15	11	8.40	30	20	18	31	9.20	7.70	5.90
5	5.50	5.50	13	15	8.40	30	19	21	23	9.20	7.70	5.50
6	5.50	5.20	16	22	8.40	38	18	19	20	9.20	7.30	5.50
7	5.50	4.80	17	19	8.80	53	18	18	19	9.20	7.30	5.50
8	5.50	5.90	13	23	10	96	18	16	18	11	7.00	5.50
9	5.50	9.20	15	18	19	64	27	16	17	10	7.00	5.50
10	5.50	8.80	12	15	20	57	30	16	16	10	7.00	5.50
11	5.50	7.00	12	12	15	48	29	16	16	9.20	7.00	5.20
12	5.50	8.00	11	11	15	50	22	16	15	9.20	7.00	5.20
13	5.20	6.20	11	10	14	51	19	15	15	8.80	7.00	5.20
14	5.20	5.50	11	9.20	21	41	18	15	14	8.80	6.60	5.20
15	5.20	4.80	11	8.40	39	46	26	15	14	8.80	6.60	5.20
16	5.20	6.20	8.40	14	40	43	22	14	14	8.80	6.60	4.80
17	5.20	8.00	7.70	13	28	35	21	14	13	8.80	6.60	4.80
18	5.20	6.60	7.70	11	19	30	19	14	13	8.80	6.60	4.80
19	4.80	6.20	7.30	9.20	19	26	25	14	13	8.40	6.60	4.80
20	4.80	7.30	6.60	8.40	33	24	22	24	13	8.40	6.20	4.80
21	4.80	11	6.60	7.70	32	23	22	18	13	8.40	6.20	4.60
22	4.60	19	7.70	8.40	40	24	38	16	13	8.40	6.20	4.60
23	4.60	16	7.00	10	40	24	28	15	13	8.40	6.20	4.60
24	4.80	12	7.30	11	53	27	23	14	12	8.40	6.20	4.60
25	4.80	11	6.20	10	55	25	21	14	12	8.40	6.20	4.40
26	4.60	9.60	5.90	10	47	21	19	14	11	8.40	6.20	4.40
27	4.60	11	5.90	8.80	37	23	23	14	12	8.40	5.90	4.40
28	4.60	14	5.90	9.60	27	32	22	14	12	8.00	5.90	4.80
29	4.40	9.20	6.20	9.60	23	32	22	14	12	8.00		8.00
30	4.40	8.80	7.00	8.80	32	32	20	16	11	8.00		6.20
31		7.30		8.80	107		18		11	7.70		5.50
Total	154.20	256.70	283.20	369.90	847	1,158	706	486	534	276.30	189.90	162.70
Mean	5.14	8.28	9.44	11.9	27.3	38.6	22.7	16.2	17.2	8.91	6.78	5.25
Max.	5.90	19	17	23	107	96	38	24	66	11	7.70	8.00
Min.	4.40	4.60	5.90	7.00	8.40	21	18	14	11	7.70	5.90	4.40
Runoff - mcm.	13.323	22.179	24.468	31.959	73.181	100.051	60.998	41.990	46.138	23.872	16.407	14.057

WATER YEAR 1960 : Max. 107 Min. 4.40 Mean 14.9 Annual Runoff 468.625 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 31	09.00	346.08	124				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Taeng River at Huai San, Chiang Mai (P.4B)

Location: Lat 19°-10' - 20" N, Long 98°-55' - 05" E, on left bank at Ban Pa Fat, 1 kilometer upstream from the district office of Amphoe Mae Taeng, and 7.5 kilometers downstream from Kaeng Kut, Chiang Mai.

Drainage Area: 1,833 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +343.84 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

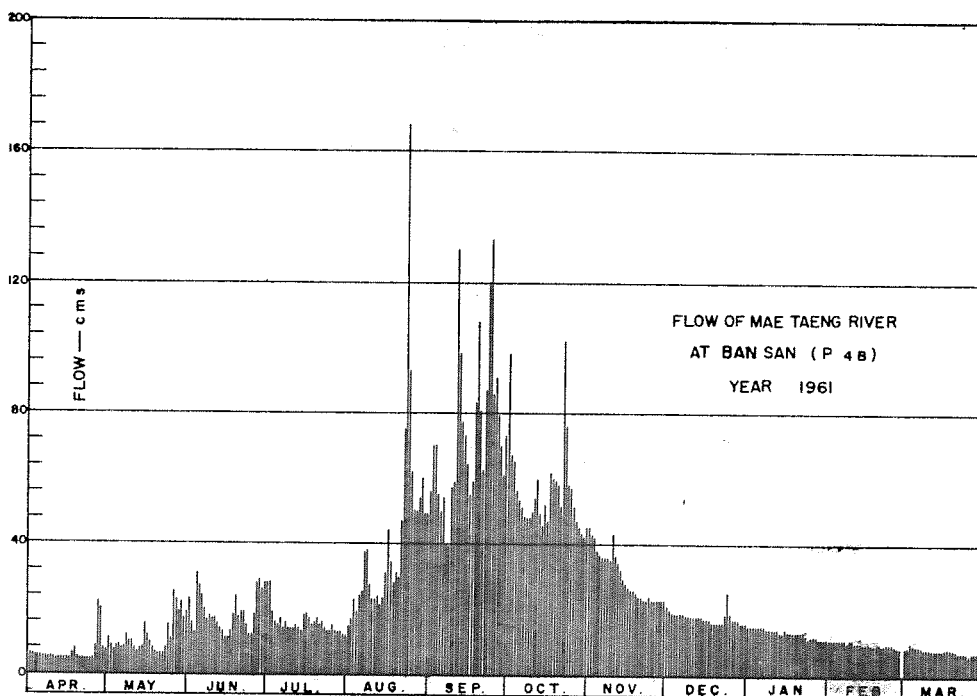
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements made during 1961. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	344.32	344.44	344.72	344.83	344.57	345.41	345.88	345.07	344.72	344.56	344.45	344.38
2	.33	.38	.55	.83	.61	.59	.49	.06	.71	.55	.45	.38
3	.30	.33	.45	.66	.77	.56	.47	.04	.70	.55	.45	.43
4	.30	.38	.87	.57	.71	.33	.34	.00	.69	.54	.44	.39
5	.29	.39	.81	.53	.82	.29	.26	344.98	.68	.54	.44	.38
6	344.29	344.34	344.74	344.58	344.83	345.29	345.22	344.95	344.67	344.54	344.44	344.38
7	.29	.38	.68	.50	345.09	.13	.17	.94	.67	.53	.44	.37
8	.29	.44	.57	.55	.05	.12	.16	.93	.66	.53	.43	.36
9	.28	.39	.61	.49	344.84	.33	.16	.93	.66	.52	.43	.36
10	.28	.39	.60	.49	.76	.38	.25	345.07	.65	.52	.43	.36
11	344.28	344.34	344.58	344.50	344.76	346.25	345.30	344.95	344.64	344.53	344.42	344.35
12	.28	.32	.53	.54	.79	345.91	.38	.91	.64	.52	.42	.35
13	.28	.36	.49	.49	.73	.65	.20	.89	.64	.51	.42	.35
14	.28	.76	.47	.48	.81	.63	.12	.88	.62	.50	.41	.34
15	.28	.50	.44	.63	.94	.47	.23	.88	.61	.50	.41	.34
16	344.28	344.46	344.44	344.67	345.16	345.37	345.15	344.86	344.61	344.49	344.41	344.34
17	.34	.39	.47	.61	344.97	.40	.39	.84	.60	.49	.40	.34
18	.38	.35	.61	.55	.88	.68	.38	.83	.59	.49	.40	.34
19	.31	.31	.74	.58	.91	346.01	.37	.82	.59	.49	.40	.34
20	.28	.31	.57	.60	.86	345.51	.32	.81	.58	.48	.40	.33
21	344.28	344.30	344.63	344.55	345.22	345.40	345.25	344.80	344.58	344.48	344.40	344.33
22	.28	.29	.62	.58	.60	.72	.98	.79	.57	.48	.40	.33
23	.27	.36	.53	.52	346.58	346.07	.61	.78	.66	.47	.40	.33
24	.27	.52	.45	.50	345.83	.12	.37	.78	.79	.47	.41	.32
25	.27	.41	.45	.51	.46	345.71	.32	.77	.64	.47	.40	.32
26	344.30	344.79	344.60	344.53	345.28	345.80	345.25	344.76	344.61	344.46	344.39	344.32
27	.67	.76	.82	.48	.27	.63	.18	.76	.60	.46	.39	.32
28	.42	.65	.84	.50	.33	.54	.14	.75	.60	.46	.38	.32
29	.35	.70	.79	.51	.41	.42	.10	.74	.59	.46	.32	.32
30	.33	.60	.84	.49	.24	.60	.07	.73	.59	.46	.32	.32
31		.64		.50	.29		.09		.58	.45		.31
Mean	344.31	344.45	344.62	344.56	345.08	345.58	345.31	344.88	344.64	344.50	344.42	344.35
Max.	344.67	344.79	344.87	344.83	346.58	346.25	345.98	345.07	344.79	344.56	344.45	344.43
Min.	344.27	344.31	344.44	344.50	344.57	345.12	345.07	344.73	344.58	344.45	344.38	344.31

WATER YEAR 1961 : Max. 346.58 m. Min. 344.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.80	11	23	28	15	56	98	45	21	15	11	8.30
2	5.80	8.60	16	28	17	70	67	43	20	15	11	8.60
3	5.20	7.20	12	19	23	70	65	42	19	15	11	10
4	5.20	8.60	31	16	19	55	56	38	19	15	11	9.20
5	5.20	8.90	27	15	24	49	53	37	19	15	11	8.90
6	5.00	7.50	24	17	25	54	51	36	19	15	11	8.90
7	5.00	8.30	20	14	37	40	48	36	19	15	11	8.60
8	5.00	12	16	16	38	39	48	36	18	14	10	8.00
9	5.00	10	18	14	27	57	48	35	18	14	11	8.00
10	5.00	10	17	14	23	59	51	43	18	14	11	8.00
11	4.40	8.00	17	14	23	130	54	36	18	14	10	7.80
12	4.70	6.90	15	15	24	98	60	34	18	14	10	7.80
13	4.70	7.80	14	14	21	77	49	32	18	13	10	7.80
14	4.70	8.30	13	13	24	73	45	29	18	13	9.60	7.80
15	4.70	15	11	18	31	64	52	28	17	14	9.60	7.80
16	4.70	12	11	19	44	55	45	27	17	13	10	8.00
17	6.30	10	13	17	34	58	62	26	17	13	9.20	8.30
18	7.50	8.00	18	15	28	79	60	26	16	13	9.20	8.00
19	5.50	6.60	24	16	31	109	59	25	16	13	9.20	7.80
20	4.70	6.30	17	17	29	68	58	24	16	13	9.60	7.50
21	4.70	6.30	19	15	47	62	51	24	16	13	9.20	7.20
22	4.40	6.00	19	16	75	83	102	23	16	13	9.20	7.20
23	4.40	8.00	15	14	168	120	76	23	19	12	9.60	7.20
24	4.40	15	12	13	91	133	58	24	25	11	10	6.60
25	4.40	9.60	12	13	62	85	57	23	19	12	9.60	6.30
26	5.50	25	18	15	50	91	51	23	17	12	8.90	6.60
27	22	23	28	13	50	79	47	23	17	12	8.60	6.90
28	20	19	29	13	54	70	45	23	17	11	8.30	6.90
29	7.80	22	26	13	60	60	43	23	16	11	6.60	6.60
30	7.20	17	28	12	49	73	42	23	16	11	6.90	6.60
31		19		12	49		45		16	11		6.60
Total	188.90	350.90	563	488	1,292	2,215	1,746	910	555	409	278.80	240.40
Mean	6.30	11.3	18.7	15.7	41.6	738	563	30.3	17.9	13.1	9.96	7.75
Max.	22	25	31	28	168	133	102	45	25	15	11	10
Min.	4.40	6.00	11	12	15	39	42	23	16	11	8.30	6.30
Runoff - mcm.	16.321	30.318	48.643	42.163	111.629	191.376	150.854	78.624	47.952	35.338	24.088	20.770

WATER YEAR 1961 : Max. 168 Min. 4.40 Mean 25.3 Annual Runoff 798.077 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23	12.00	346.74	218				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Taeng River at Huai San, Chiang Mai (P.4B)

Location: Lat 19° - 20' - 10" N, Long 98° - 55' - 05" E, on left bank at Ban Pa Fat, 1 kilometer upstream from the district office of Amphoe Mae Taeng, and 7.5 kilometers downstream from Kaeng Kut, Chiang Mai.

Drainage Area: 1,833 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +343.84 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

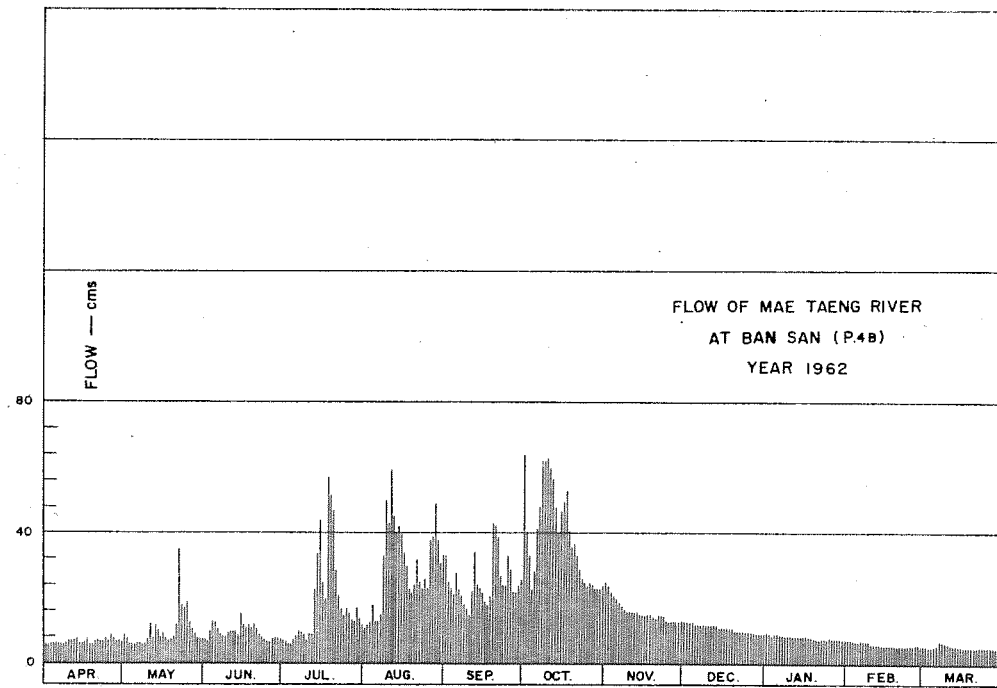
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1962. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	344.31	344.38	344.31	344.32	344.44	344.90	345.51	344.73	344.47	344.37	344.31	344.26
2	.30	.33	.32	.31	.45	.76	.03	.68	.47	.37	.31	.26
3	.30	.30	.42	.30	.49	.75	344.84	.65	.46	.36	.30	.25
4	.30	.29	.48	.30	.64	.72	.75	.64	.46	.36	.30	.25
5	.30	.29	.50	.35	.53	.84	.83	.64	.45	.36	.30	.25
6	344.29	344.30	344.44	344.41	344.52	344.76	345.03	344.64	344.44	344.36	344.30	344.25
7	.29	.30	.37	.41	.60	.66	.21	.63	.44	.36	.29	.30
8	.29	.28	.35	.40	.86	.60	.55	.62	.44	.36	.29	.27
9	.29	.30	.34	.37	345.21	.60	.39	.60	.43	.36	.29	.26
10	.29	.30	.38	.35	.07	.60	.48	.60	.43	.36	.28	.25
11	344.31	344.45	344.38	344.51	345.37	344.75	345.45	344.59	344.43	344.35	344.28	344.24
12	.31	.36	.40	.39	.17	.92	.39	.58	.43	.35	.28	.23
13	.30	.51	.42	.78	.02	.80	.22	.57	.43	.35	.28	.23
14	.30	.40	.39	.99	.12	.74	.07	.55	.43	.35	.27	.23
15	.30	.34	.56	345.18	.02	.70	.20	.54	.43	.35	.27	.23
16	344.31	344.39	344.48	344.77	344.87	344.65	345.24	344.53	344.42	344.35	344.27	344.22
17	.34	.34	.44	.63	.83	.61	.24	.53	.42	.35	.27	.22
18	.30	.31	.47	345.39	.75	.70	.07	.52	.42	.35	.27	.22
19	.29	.33	.45	.35	.72	345.04	.03	.51	.41	.34	.27	.22
20	.33	.35	.47	.18	.76	.07	344.99	.51	.40	.33	.26	.22
21	344.33	344.47	344.44	344.86	344.89	344.99	344.93	344.50	344.40	344.33	344.26	344.21
22	.32	.98	.39	.70	.80	.82	.88	.50	.39	.33	.26	.21
23	.32	.67	.35	.60	.73	.77	.84	.49	.39	.33	.26	.21
24	.32	.64	.33	.56	.77	.77	.81	.49	.39	.33	.26	.21
25	.31	.72	.32	.60	.70	.91	.77	.48	.39	.32	.26	.21
26	344.37	344.60	344.31	344.59	344.96	344.83	344.75	344.48	344.39	344.32	344.26	344.21
27	.33	.45	.33	.53	345.02	.77	.72	.48	.38	.32	.26	.21
28	.30	.39	.35	.48	.22	.71	.71	.47	.38	.32	.26	.20
29	.30	.35	.35	.58	344.99	.76	.70	.47	.37	.31	.26	.20
30	.30	.33	.34	.53	.86	.83	.69	.47	.37	.31	.26	.22
31		.31		.47	.92		.71		.37	.31		.22
Mean	344.31	344.41	344.40	344.61	344.87	344.78	345.03	344.56	344.42	344.34	344.28	344.23
Max.	344.37	344.98	344.56	345.39	345.37	345.07	345.55	344.73	344.47	344.37	344.31	344.30
Min.	344.29	344.28	344.31	344.30	344.44	344.60	344.69	344.47	344.37	344.31	344.26	344.20

WATER YEAR 1962 : Max. 345.55 m. Min. 344.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.90	8.80	7.30	7.00	11	33	64	25	13	9.40	7.60	5.30
2	5.60	7.30	7.00	6.70	12	25	41	24	13	9.10	7.30	5.30
3	5.60	6.10	10	6.10	13	23	29	22	13	8.80	7.00	4.80
4	5.90	5.90	13	6.10	18	21	23	20	13	9.10	7.00	5.10
5	5.90	5.90	13	7.60	13	28	30	20	12	9.10	6.70	5.30
6	5.60	6.10	11	8.80	13	23	41	19	12	8.80	6.70	5.30
7	5.60	6.40	9.10	10	15	21	48	18	12	8.50	6.10	7.00
8	5.60	5.90	8.50	9.80	33	18	62	17	12	8.50	6.10	6.40
9	5.60	6.40	8.20	8.80	50	17	62	16	12	8.50	6.10	6.40
10	6.40	7.30	9.40	7.30	43	15	63	16	12	8.80	5.90	5.90
11	6.70	12	9.40	9.40	59	22	60	16	12	8.20	5.90	5.60
12	7.00	7.90	9.80	9.40	45	34	57	16	12	8.20	5.90	5.30
13	7.30	12	9.80	23	40	24	48	16	12	8.20	5.90	5.30
14	5.90	10	8.80	34	42	23	40	15	11	8.20	5.60	5.10
15	5.90	8.20	15	44	40	22	47	15	11	8.20	5.60	5.10
16	6.40	9.40	12	25	34	19	50	15	11	8.20	5.60	4.80
17	7.30	7.90	11	20	30	18	53	15	11	8.20	5.60	4.80
18	5.90	6.70	12	58	23	21	41	15	11	8.20	5.60	4.80
19	5.60	7.30	11	57	22	45	36	14	11	7.90	5.60	4.80
20	6.70	7.90	12	47	25	42	37	14	10	7.60	5.30	4.80
21	7.00	12	11	29	32	39	33	15	10	7.60	5.30	4.80
22	6.70	35	8.80	21	25	27	29	15	10	7.60	5.30	4.80
23	6.70	18	7.90	17	23	24	26	15	10	7.60	5.30	4.80
24	7.30	17	7.30	15	26	24	25	13	10	7.60	5.30	4.80
25	7.00	19	6.70	17	23	33	24	13	10	7.60	5.30	4.80
26	9.10	13	7.00	16	38	29	25	13	9.80	7.60	5.30	4.80
27	7.30	11	7.60	14	39	22	24	13	9.40	7.60	5.60	4.80
28	6.70	9.10	7.90	13	49	22	23	13	9.40	7.90	5.60	4.50
29	6.70	7.90	7.60	17	38	24	23	13	9.40	7.30	5.30	4.50
30	6.40	7.30	7.60	14	31	26	23	13	9.40	7.30	5.10	5.10
31		7.30		12	33		24		9.40	7.30		5.10
Total	193.30	312.00	286.70	590.00	938	762	1,211	484	342.50	252.70	166.10	160.00
Mean	6.44	10.1	9.56	19.0	30.2	25.4	39.0	16.1	11.0	8.15	5.93	5.16
Max.	9.10	35	15	58	59	43	64	25	13	9.40	7.60	7.00
Min.	5.60	5.90	7.00	6.10	11	15	23	13	9.40	7.30	5.30	4.50
Runoff - mcm.	16.701	26.957	24.771	50.976	81.043	65.837	104.630	41.818	29.592	21.833	14.351	13.824

WATER YEAR 1962 : Max. 64 Min. 4.50 Mean 15.6 Annual Runoff 492.333 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	18.00	345.82	80				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Kuang River at Tha Sing Phitak, Lamphun (P.5)

Location: Lat 18° - 34' - 32" N, Long 99° - 00' - 44" E, on right bank 10 meters downstream from Tha Sing Phitak Bridge, in front of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +289.30 m.(M.S.L.)

Bench Mark: B.M. - H.S./ R.I.D. No.7

Location: On right bank near the abutment of bridge.

Elevation: +295.790 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1954 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

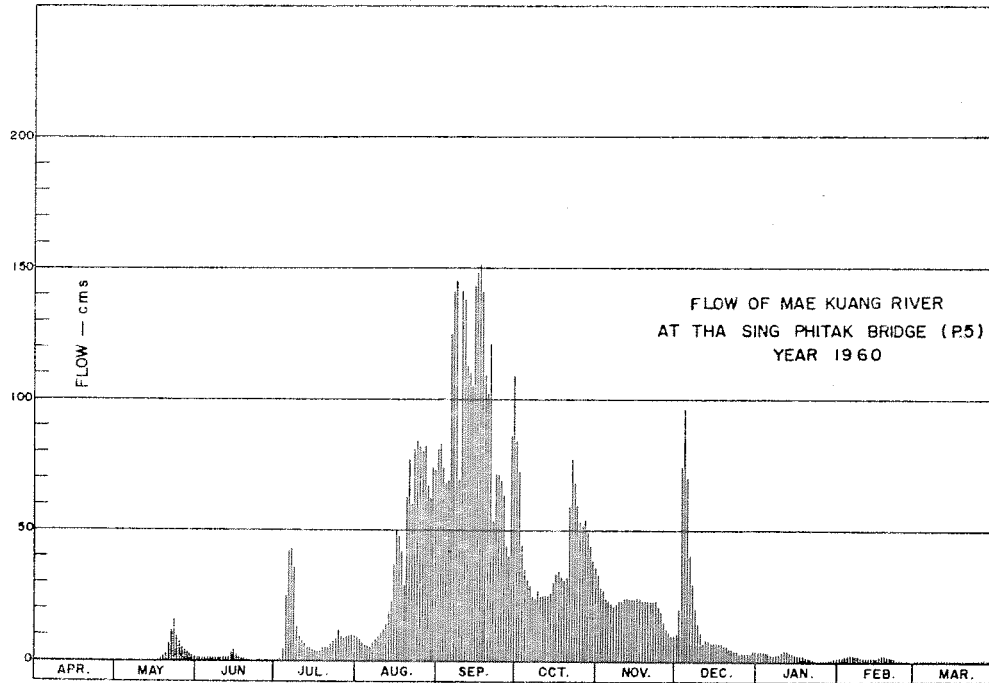
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 9,600 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.36	289.32	289.66	289.48	290.07	291.99	291.86	290.73	290.18	289.78	289.59	289.48
2	.36	.32	.63	.49	.04	292.04	.77	.60	.48	.78	.61	.48
3	.36	.32	.62	.49	289.98	291.84	.13	.54	291.87	.77	.65	.48
4	.36	.31	.62	.81	.91	.71	290.88	.47	292.35	.77	.68	.48
5	.35	.31	.62	290.58	.90	.73	.75	.43	291.73	.74	.69	.48
6	289.35	289.31	289.62	291.07	289.93	292.95	290.68	290.38	291.05	289.69	289.69	289.48
7	.35	.31	.62	.08	.96	293.29	.56	.34	290.77	.69	.68	.48
8	.35	.31	.62	290.90	290.02	.38	.52	.35	290.46	.70	.66	.48
9	.35	.30	.62	.20	.07	291.76	.59	.38	.28	.72	.62	.48
10	.34	.29	.62	.10	.12	293.30	.53	.38	.13	.78	.60	.48
11	289.34	289.28	289.62	290.00	290.15	293.25	290.50	290.40	290.00	289.80	289.58	289.48
12	.34	.29	.62	289.96	.18	292.74	.49	.40	.00	.79	.57	.47
13	.34	.30	.63	.90	.32	.73	.48	.40	.00	.76	.57	.47
14	.34	.40	.74	.87	.44	.65	.52	.40	289.98	.73	.57	.47
15	.34	.48	.82	.83	.82	293.47	.61	.39	.96	.70	.57	.47
16	289.34	289.49	289.68	289.80	291.13	293.57	290.67	290.39	289.75	289.69	289.61	289.47
17	.34	.56	.62	.79	.05	.63	.67	.38	.95	.69	.66	.47
18	.33	.62	.63	.83	290.87	.43	.67	.36	.94	.68	.68	.47
19	.33	.74	.59	.90	.61	292.74	.68	.36	.93	.64	.66	.47
20	.33	.79	.51	.89	291.59	.53	.72	.36	.90	.59	.60	.47
21	289.33	290.03	289.49	289.88	291.92	291.85	291.43	290.34	289.87	289.56	289.58	289.47
22	.33	.27	.49	.93	.53	.25	.83	.34	.87	.54	.57	.47
23	.33	.42	.49	.99	292.01	.70	.62	.34	.84	.54	.53	.47
24	.33	.19	.48	290.02	.07	.70	.43	.30	.81	.51	.50	.47
25	.32	.08	.49	.18	.03	.66	.26	.26	.78	.50	.50	.47
26	289.32	289.96	289.49	290.11	291.96	291.51	291.23	290.15	289.76	289.50	289.48	289.47
27	.32	.89	.48	.08	292.02	.06	.27	.07	.75	.50	.48	.47
28	.32	.82	.48	.08	291.67	290.98	.16	.08	.75	.50	.48	.47
29	.32	.76	.46	.11	.58	292.06	.03	.11	.76	.52	.47	.47
30	.32	.72	.45	.10	.84	.57	290.86	.13	.77	.58	.47	.47
31	.68	.68	.11	.83	.83	.83	.81	.78	.78	.57	.47	.47
Mean	289.34	289.61	289.58	290.05	290.89	292.37	290.94	290.34	290.21	289.65	289.59	289.47
Max.	289.36	290.42	289.82	291.08	292.07	293.63	291.86	290.73	292.35	289.80	289.69	289.48
Min.	289.32	289.28	289.45	289.48	289.90	290.98	290.48	290.07	289.75	289.50	289.48	289.47

WATER YEAR 1960 : Max. 293.63 m. Min. 289.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.04	1.64	0.60	9.40	81	76	33	11	3.88	1.32	0.52
2	0.12	0.04	1.32	0.60	8.70	93	72	28	20	3.88	1.52	0.52
3	0.12	0.04	1.32	0.60	7.50	74	45	27	24	3.72	2.00	0.52
4	0.12	0.02	1.32	4.40	6.20	68	35	24	96	3.72	2.36	0.52
5	0.10	0.02	1.32	25	6.00	69	31	23	68	3.24	2.48	0.52
6	0.10	0.02	1.32	42	5.70	125	29	22	40	2.48	2.48	0.52
7	0.10	0.02	1.32	43	7.30	141	25	21	30	2.48	2.36	0.52
8	0.10	0.02	1.24	36	8.70	145	24	22	20	2.60	2.12	0.52
9	0.10	0.00	1.16	13	9.60	69	27	23	14	2.92	1.64	0.52
10	0.08	0.00	1.76	10	11	141	25	23	11	3.88	1.40	0.52
11	0.08	0.00	1.64	7.80	12	138	25	24	7.00	4.20	1.24	0.52
12	0.08	0.00	1.64	7.30	14	113	25	24	8.00	4.04	1.16	0.48
13	0.08	0.00	1.76	5.60	19	110	25	24	8.00	3.56	1.16	0.48
14	0.08	0.16	3.24	5.10	23	105	26	24	7.00	3.08	1.16	0.48
15	0.08	0.40	4.56	4.60	37	143	30	24	7.00	2.60	1.16	0.48
16	0.08	0.40	2.36	4.00	50	148	33	24	7.00	2.48	1.52	0.48
17	0.08	0.68	1.52	3.90	48	151	34	24	7.00	2.48	2.12	0.48
18	0.06	1.08	1.52	4.60	42	141	32	23	7.00	2.36	2.36	0.48
19	0.06	2.24	1.16	5.60	29	108	31	23	6.00	1.88	2.12	0.48
20	0.06	2.76	0.60	5.50	63	102	32	23	6.00	1.32	1.40	0.48
21	0.06	6.88	0.52	5.30	77	121	59	23	5.00	1.08	1.24	0.48
22	0.06	12	0.52	6.40	60	53	77	23	5.00	0.92	1.16	0.48
23	0.06	16	0.52	7.80	81	71	68	23	4.00	0.92	0.84	0.48
24	0.06	9.88	0.48	8.20	84	71	60	21	4.00	0.68	0.60	0.48
25	0.04	7.76	0.52	12	82	69	53	19	3.00	0.60	0.60	0.48
26	0.04	5.64	0.52	10	80	63	52	15	3.00	0.60	0.52	0.48
27	0.04	4.74	0.52	8.90	82	44	54	12	3.00	0.60	0.52	0.48
28	0.04	3.68	0.52	9.20	67	40	49	11	3.00	0.60	0.52	0.48
29	0.04	2.92	0.48	10	62	66	44	10	3.00	0.76	0.48	0.48
30	0.64	2.36	0.44	10	74	109	38	10	4.00	1.00	0.48	0.48
31	1.88	1.88	10	10	73	36	36	4.00	1.16	0.48	0.48	0.48
Total	2.28	81.88	38.76	327.00	1,239.10	1,982	1,272	650	495	69.72	41.08	15.32
Mean	0.08	2.64	1.29	10.5	40.0	66.1	41.0	21.6	16.0	2.25	1.47	0.49
Max.	0.12	16	4.56	43	84	151	77	33	96	4.20	2.48	0.52
Min.	0.04	0.00	0.44	0.60	5.70	40	24	10	3.00	0.60	0.52	0.48
Runoff - mcm.	0.197	7.074	3.349	28.253	107.058	171.245	109.901	56.160	42.768	6.024	3.549	1.324

WATER YEAR 1960 : Max. 151 Min. 0.00 Mean 17.0 Annual Runoff 536.902 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 17	09.00	293.68	178				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Kuang River at Tha-Sing Phitak, Lamphun (P.5)

Location: Lat 18° - 34' - 32" N, Long 99° - 00' - 44" E, on right bank 10 meters downstream from Tha Sing Phitak Bridge, in front of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +389.30 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.7

Location: On right bank near the abutment of bridge.
Elevation: +295.790 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1954 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

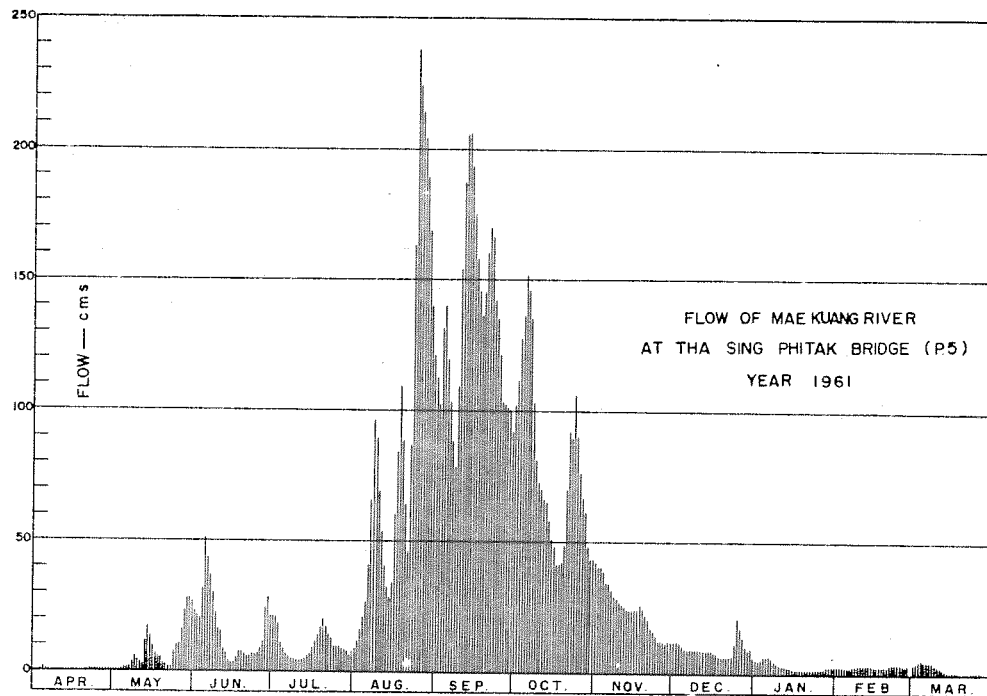
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge - measurements during 1954 - 60. Upstream state diversions for irrigation of about 9,600 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.47	289.56	290.57	290.50	290.04	292.56	292.37	291.09	290.18	289.90	289.78	289.81
2	.52	.55	.50	.50	.18	.38	.58	.04	.18	.88	.78	.83
3	.61	.58	.45	.40	.37	.90	.82	.02	.14	.90	.78	.86
4	.66	.63	.80	.16	.48	293.06	.99	290.98	.10	.94	.76	.90
5	.58	.66	291.31	.05	.68	292.68	293.26	.88	.08	.94	.76	.88
6	289.53	289.68	291.11	289.95	291.06	292.40	293.16	290.86	290.06	289.94	289.76	289.88
7	.50	.73	290.95	.90	.61	.11	292.97	.78	.06	.91	.78	.88
8	.50	.83	.75	.87	292.26	291.90	.40	.72	.06	.87	.78	.85
9	.49	.92	.52	.87	292.13	292.50	291.95	.71	.06	.84	.80	.81
10	.49	.85	.35	.85	291.70	293.29	.80	.67	.06	.80	.80	.78
11	289.49	289.81	290.10	289.85	291.34	293.82	291.74	290.64	290.05	289.78	289.80	289.75
12	.49	.77	.03	.87	.02	294.09	.65	.62	.04	.78	.80	.73
13	.49	290.17	289.96	.88	290.80	.10	.63	.60	.04	.76	.79	.67
14	.49	.36	.80	.92	.70	293.91	.46	.60	.04	.74	.79	.63
15	.49	.24	.80	.96	.88	.63	.29	.59	.04	.73	.78	.62
16	289.49	290.07	289.80	290.06	291.52	293.35	291.23	290.59	290.01	289.72	289.78	289.62
17	.49	289.96	.90	.17	292.03	.15	.06	.59	289.98	.72	.78	.60
18	.49	.90	290.01	.28	.50	292.99	.06	.64	.96	.71	.78	.57
19	.50	.89	289.98	.37	.10	293.14	.09	.59	.94	.71	.78	.55
20	.52	.78	.95	.46	291.60	.38	.26	.54	.94	.72	.78	.54
21	289.54	289.75	289.90	290.37	291.19	293.55	291.74	290.46	289.94	289.72	289.80	289.54
22	.56	.71	.92	.25	292.08	.48	292.19	.37	.94	.72	.80	.54
23	.59	.71	.96	.14	293.44	.18	.13	.34	.94	.72	.82	.54
24	.60	.98	.95	.08	294.57	292.97	.45	.27	290.13	.72	.82	.56
25	.58	290.11	.97	.08	.37	.71	.15	.20	.50	.72	.82	.59
26	289.58	290.12	290.06	290.08	294.22	292.39	291.86	290.20	290.37	289.72	289.79	289.60
27	.57	.34	.16	.05	.07	.37	.66	.20	.27	.75	.78	.57
28	.57	.55	.60	.02	293.85	.35	.53	.20	.10	.77	.79	.54
29	.56	.70	.71	289.98	.52	.33	.24	.18	.04	.78		.51
30	.56	.70	.50	.93	.05	.19	.11	.18	.00	.78		.49
31		.68		290.00	292.72		.11		289.94	.78		.47
Mean	289.53	289.98	290.28	290.09	291.97	292.96	291.90	290.58	290.07	289.79	289.79	289.67
Max.	289.66	290.70	291.31	290.50	294.57	294.10	293.26	291.09	290.50	289.94	289.82	289.90
Min.	289.47	289.55	289.80	289.85	290.04	291.90	291.06	290.18	289.94	289.71	289.76	289.47

WATER YEAR 1961 : Max. 294.57 m. Min. 289.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.42	23	21	8.60	112	102	42	12	5.20	2.84	3.40
2	0.14	0.35	21	21	12	102	115	40	12	4.80	2.84	3.80
3	0.77	0.56	20	18	17	131	127	40	11	5.20	2.84	4.40
4	1.12	0.91	32	11	21	140	136	38	10	6.20	2.84	5.20
5	0.56	1.12	51	8.80	27	119	152	34	9.50	6.20	2.48	4.80
6	0.21	1.26	43	6.40	41	103	146	34	9.00	6.20	2.48	4.80
7	0.00	1.94	37	5.20	64	88	135	31	9.00	5.40	2.84	4.80
8	0.00	3.80	30	4.60	96	78	103	29	9.00	4.60	2.84	4.20
9	0.00	5.70	22	4.60	89	109	81	28	9.00	4.00	3.20	3.40
10	0.00	4.20	16	4.20	69	154	73	27	9.00	3.20	3.20	2.84
11	0.00	3.40	10	4.20	53	187	70	26	8.80	2.84	3.20	2.30
12	0.00	2.66	8.30	4.60	40	205	66	25	8.60	2.84	3.20	1.94
13	0.00	12	6.60	4.80	32	206	65	24	8.60	2.48	3.02	1.29
14	0.00	17	3.20	5.70	28	193	58	24	8.60	2.12	3.02	0.91
15	0.00	13	3.20	6.60	34	175	51	24	8.60	1.94	2.84	0.84
16	0.00	9.30	3.20	9.00	60	158	48	24	7.80	1.76	2.84	0.84
17	0.00	6.60	5.20	12	84	145	41	24	7.10	1.76	2.84	0.70
18	0.00	5.20	7.80	14	109	136	41	26	6.60	1.58	2.84	0.49
19	0.00	5.00	7.10	17	88	145	42	24	6.20	1.58	2.84	0.35
20	0.14	2.84	6.40	20	64	160	49	22	6.20	1.76	2.84	0.28
21	0.28	2.30	5.20	17	46	170	70	20	6.20	1.76	3.20	0.28
22	0.42	1.58	5.70	14	87	166	92	17	6.20	1.76	3.20	0.28
23	0.63	1.58	6.60	11	163	147	89	16	6.20	1.76	3.60	0.28
24	0.70	7.10	6.40	9.50	238	135	106	14	11	1.76	3.60	0.42
25	0.56	10	6.90	9.50	224	121	90	12	21	1.76	3.60	0.63
26	0.56	10	9.00	9.50	214	103	76	12	17	1.76	3.02	0.70
27	0.49	16	11	8.80	204	102	67	12	14	1.94	2.84	0.49
28	0.49	23	24	8.10	189	101	61	12	10	2.66	3.02	0.28
29	0.42	28	28	7.10	168	100	48	12	8.60	2.84	3.02	0.07
30	0.42	28	21	5.90	140	92	43	12	7.60	2.84	2.84	0.00
31		27		7.60	121		43		6.20	2.84		0.00
Total	7.91	251.82	479.80	310.70	2,830.60	4,083	2,484	725	290.60	95.34	83.60	54.91
Mean	0.26	8.12	16.0	10.0	91.3	136	80.1	24.1	9.37	3.07	2.98	1.77
Max.	1.12	28	51	21	238	206	152	42	21	6.20	3.60	5.20
Min.	0.00	0.35	3.20	4.20	8.60	78	41	12	6.20	1.58	2.48	0.00
Runoff - mcm.	0.683	21.757	41.455	26.844	244.564	352.771	214.618	62.640	25.108	8.237	7.223	4.744

WATER YEAR 1961 : Max. 238 Min. 0.00 Mean 32.0 Annual Runoff 1,010.645 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	15.00	294.62	242				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Kuang River at Tha Sing Phitak, Lamphun (P.5)

Location: Lat 18° - 34' - 32" N, Long 99° - 00' - 44" E, on right bank 10 meters downstream from Tha Sing Phitak Bridge, in front of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +289.30 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.7

Location: On right bank near the abutment of bridge.
Elevation: +295.790 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1954 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustments for flow computation for years without actual ratings.

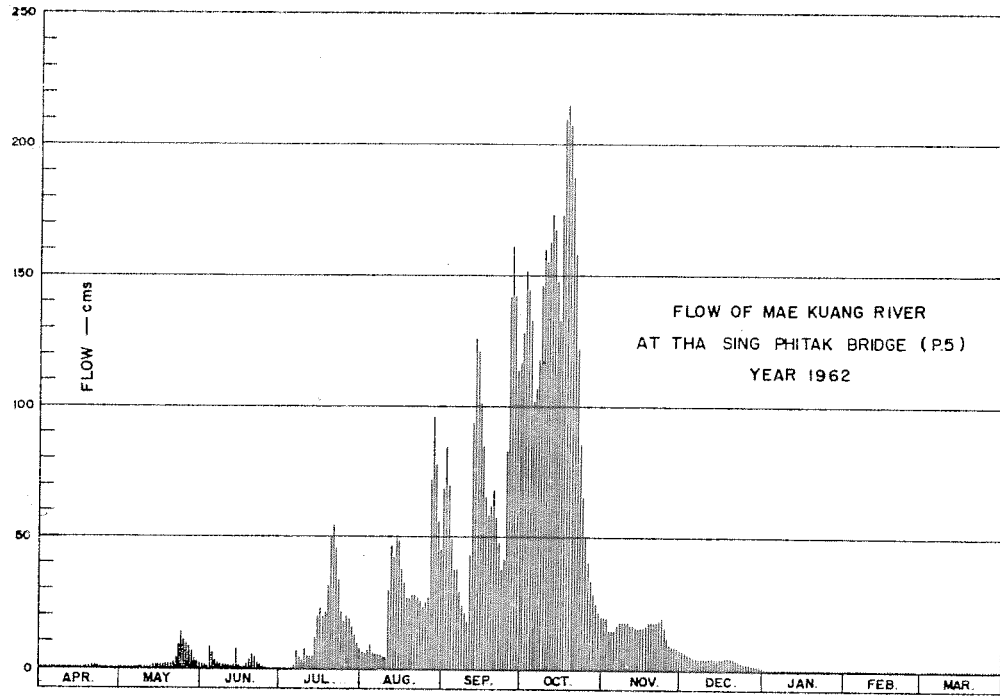
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1954 - 60. Upstream state diversions for irrigation of about 9,600 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.47	289.47	289.69	289.50	289.94	291.70	292.84	290.45	289.97	289.61	289.37	289.32
2	.47	.47	.66	.50	.94	292.04	293.25	.45	.94	.53	.35	.32
3	.47	.46	.64	.48	.98	291.73	.16	.30	.92	.50	.34	.32
4	.47	.52	290.02	.48	290.07	.28	292.94	.30	.90	.50	.33	.32
5	.47	.51	289.94	.53	289.96	290.99	.37	.30	.87	.50	.32	.32
6	289.47	289.50	289.79	289.67	289.92	290.97	292.46	290.37	289.87	289.50	289.32	289.33
7	.47	.50	.74	.97	.92	.76	.66	.40	.85	.50	.32	.33
8	.47	.58	.72	.85	.90	.58	293.16	.40	.85	.50	.31	.33
9	.47	.60	.70	.80	.87	.48	.38	.40	.85	.50	.31	.33
10	.47	.60	.68	.99	.88	.40	.30	.40	.85	.48	.31	.33
11	289.47	289.62	289.65	289.89	290.76	291.10	293.43	290.38	289.85	289.48	289.31	289.35
12	.47	.65	.56	.85	291.20	292.11	.60	.37	.85	.48	.31	.36
13	.47	.66	.70	.88	.10	.80	.52	.35	.85	.48	.31	.38
14	.47	.68	290.00	290.19	.30	.71	.22	.35	.85	.46	.31	.39
15	.47	.70	289.66	.47	.26	.35	292.93	.33	.85	.46	.31	.40
16	289.47	289.70	289.58	290.55	290.99	292.05	293.60	290.33	289.85	289.46	289.31	289.40
17	.50	.70	.63	.47	.85	291.65	294.16	.37	.86	.46	.31	.37
18	.52	.71	.73	.53	.68	.49	.24	.39	.87	.46	.31	.37
19	.56	.72	.83	.80	.68	.56	.12	.39	.87	.45	.31	.37
20	.57	.73	.91	291.27	.71	.68	293.82	.39	.85	.45	.31	.35
21	289.59	289.76	289.85	291.40	290.71	291.46	293.36	290.39	289.83	289.44	289.31	289.35
22	.61	.84	.75	.19	.68	.22	292.74	.42	.81	.44	.31	.35
23	.55	290.07	.71	290.88	.65	290.97	.06	.45	.78	.43	.31	.35
24	.53	.28	.64	.54	.60	291.07	291.64	.35	.76	.43	.31	.33
25	.51	.15	.62	.40	.65	292.00	.30	.19	.75	.43	.31	.33
26	289.49	290.07	289.57	290.47	290.70	293.10	291.06	290.08	289.74	289.41	289.32	289.33
27	.47	.02	.55	.44	291.78	.40	290.86	.05	.72	.41	.32	.33
28	.47	289.95	.52	.34	292.27	.10	.73	.05	.70	.41	.32	.32
29	.47	.83	.52	.21	291.90	292.60	.63	.03	.68	.39	.32	.32
30	.47	.77	.51	.12	.49	.64	.53	.00	.66	.39	.32	.32
31	.47	.71	.00	.00	.18	.45	.45	.64	.39	.39	.32	.32
Mean	289.49	289.73	289.70	290.21	290.69	291.73	292.63	290.31	289.82	289.46	289.32	289.34
Max.	289.61	290.28	290.02	291.40	292.27	293.40	294.24	290.45	289.97	289.61	289.37	289.40
Min.	289.47	289.47	289.51	289.48	289.87	290.40	290.45	290.00	289.64	289.39	289.31	289.32

WATER YEAR 1962 : Max. 294.24 m. Min. 289.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	1.33	0.00	6.20	69	128	20	6.90	0.77	0.00	0.00
2	0.00	0.00	1.12	0.00	6.20	85	152	20	6.20	0.21	0.00	0.00
3	0.00	0.00	0.98	0.00	7.10	70	146	15	5.70	0.00	0.00	0.00
4	0.00	0.14	8.10	0.00	9.30	50	133	15	5.20	0.00	0.00	0.00
5	0.00	0.07	6.20	0.21	6.60	38	102	15	4.60	0.00	0.00	0.00
6	0.00	0.00	3.02	1.19	5.70	38	107	17	4.60	0.00	0.00	0.00
7	0.00	0.00	2.12	6.90	5.70	30	118	18	4.20	0.00	0.00	0.00
8	0.00	0.56	1.76	4.20	5.20	24	146	18	4.20	0.00	0.00	0.00
9	0.00	0.70	1.40	3.20	4.60	21	160	18	4.20	0.00	0.00	0.00
10	0.00	0.70	1.26	7.40	4.80	18	155	18	4.20	0.00	0.00	0.00
11	0.00	0.84	1.05	5.00	30	43	163	17	4.20	0.00	0.00	0.00
12	0.00	0.91	0.42	4.20	47	88	173	17	4.20	0.00	0.00	0.00
13	0.00	1.12	1.40	4.80	43	126	168	16	4.20	0.00	0.00	0.00
14	0.00	1.26	7.60	12	51	121	150	16	4.20	0.00	0.00	0.00
15	0.00	1.40	1.12	20	49	101	133	16	4.20	0.00	0.00	0.00
16	0.00	1.40	0.56	23	38	85	173	16	4.20	0.00	0.00	0.00
17	0.00	1.40	0.91	20	33	66	210	17	4.40	0.00	0.00	0.00
18	0.14	1.58	1.94	22	27	59	215	18	4.60	0.00	0.00	0.00
19	0.42	1.76	3.80	32	27	62	207	18	4.60	0.00	0.00	0.00
20	0.49	1.94	5.40	50	28	68	187	18	4.20	0.00	0.00	0.00
21	0.63	2.48	4.20	55	28	58	158	18	3.80	0.00	0.00	0.00
22	0.77	4.00	2.30	46	27	48	122	19	3.40	0.00	0.00	0.00
23	0.35	9.30	1.58	34	26	38	86	20	2.84	0.00	0.00	0.00
24	0.21	14	0.98	22	24	42	66	16	2.48	0.00	0.00	0.00
25	0.07	11	0.84	18	26	83	51	12	2.50	0.00	0.00	0.00
26	0.00	9.30	0.49	20	28	142	41	9.50	2.12	0.00	0.00	0.00
27	0.00	8.10	0.35	19	72	161	34	8.80	1.76	0.00	0.00	0.00
28	0.00	6.40	0.14	16	96	142	29	8.80	1.40	0.00	0.00	0.00
29	0.00	3.80	0.14	13	78	114	25	8.30	1.26	0.00	0.00	0.00
30	0.00	2.66	0.07	10	59	117	22	7.60	1.12	0.00	0.00	0.00
31.	0.00	1.58	7.60	46	7.60	20	20	0.98	0.00	0.00	0.00	0.00
Total	3.08	88.40	62.58	476.70	944.40	2,207	3,780	471.00	116.46	0.98	0.00	0.00
Mean	0.10	2.85	2.09	15.4	30.5	73.5	122	15.7	3.76	0.03	0.00	0.00
Max.	0.77	14	8.10	55	96	161	215	20	6.90	0.77	0.00	0.00
Min.	0.00	0.00	0.07	0.00	4.60	18	20	7.60	0.98	0.00	0.00	0.00
Runoff - mcm.	0.266	7.638	5.407	41.187	81.596	190.685	326.592	40.694	10.062	0.085	0.00	0.00

WATER YEAR 1962 : Max. 215 Min. 0.00 Mean 22.3 Annual Runoff 704.212 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	15.00	294.30	219				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Ping River at Wang Kra Chao, Tak (P.12)

Location: Lat 17°-14'-30" N, Long 99°-00'-45" E, on right bank 4 kilometers downstream from Yanhee Dam site, Amphoe Sam Ngao, Tak.

Drainage Area: 26,390 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +135.19 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: 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 hourly 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: Rather unstable, shifting adjustment is included for flow computations.

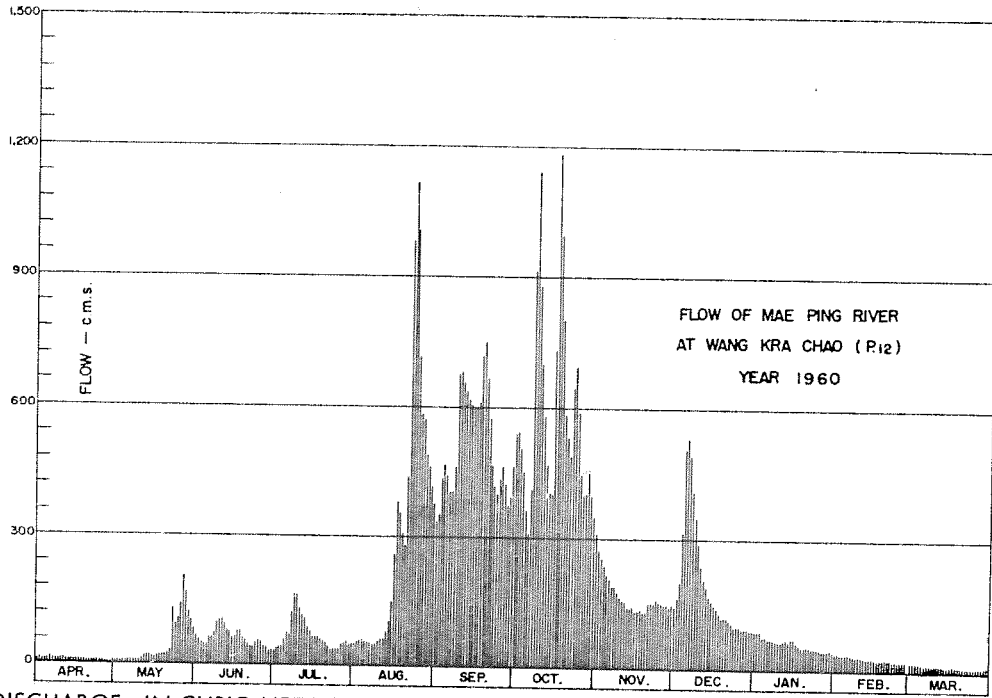
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.11	136.05	136.59	136.37	136.47	137.64	138.06	137.62	137.04	136.77	136.41	136.20
2	.11	.04	.53	.40	.50	.68	.07	.52	.08	.75	.41	.18
3	.11	.02	.52	.44	.51	.79	137.98	.48	.22	.74	.41	.18
4	.11	.03	.48	.45	.51	.89	.84	.42	.58	.73	.41	.17
5	.12	.04	.49	.53	.49	.86	.67	.35	138.05	.71	.40	.17
6	136.12	136.06	136.57	136.62	136.47	137.73	137.55	137.31	138.11	136.69	136.40	136.17
7	.10	.08	.58	.60	.47	.79	.79	.27	.07	.67	.39	.17
8	.10	.08	.64	.93	.46	.95	138.65	.23	137.97	.67	.39	.17
9	.10	.07	.75	137.11	.47	138.32	139.02	.19	.72	.66	.38	.17
10	.12	.09	.85	.10	.51	.34	138.64	.15	.55	.64	.37	.18
11	136.11	136.17	136.81	136.94	136.52	138.32	138.37	137.12	137.42	136.63	136.36	136.19
12	.10	.24	.73	.86	.53	.27	.14	.09	.33	.65	.34	.17
13	.10	.23	.68	.79	.64	.21	137.95	.06	.24	.65	.32	.17
14	.10	.23	.63	.70	.76	.19	.80	.05	.17	.62	.31	.15
15	.10	.18	.58	.61	.96	.19	.81	.04	.12	.60	.30	.14
16	136.10	136.17	136.58	136.56	137.35	138.16	138.46	137.03	137.07	136.58	136.29	136.13
17	.10	.24	.67	.57	.64	.18	139.06	.02	.04	.57	.28	.14
18	.09	.25	.63	.58	.59	.39	138.83	.02	.01	.56	.28	.14
19	.09	.27	.57	.57	.47	.40	.56	.02	136.98	.55	.29	.13
20	.08	.26	.53	.53	.41	.32	.27	.01	.96	.55	.32	.13
21	136.06	136.30	136.49	136.48	137.79	138.15	138.18	137.06	136.94	136.55	136.29	136.13
22	.06	.43	.46	.43	138.70	137.94	.10	.08	.92	.54	.30	.11
23	.05	137.00	.45	.40	.91	.79	.39	.38	.90	.52	.28	.10
24	.05	136.85	.53	.39	.65	.81	.48	.09	.89	.51	.26	.10
25	.07	.86	.57	.39	.34	.85	.31	.39	.87	.49	.25	.09
26	136.07	137.00	136.52	136.42	138.17	137.91	138.08	137.07	136.86	136.47	136.25	136.09
27	.04	.24	.44	.46	.10	.83	137.91	.05	.84	.46	.24	.09
28	.03	.11	.40	.47	137.91	.73	.85	.05	.82	.45	.22	.09
29	.02	136.94	.36	.49	.80	.74	.97	.03	.81	.43		.12
30	.02	.79	.36	.48	.67	.95	.88	.03	.80	.43		.15
31		.68		.47			.75		.77	.42		.11
Mean	136.03	136.39	136.57	136.58	137.28	138.01	138.17	137.15	137.20	136.59	136.33	136.16
Max.	136.12	137.24	136.85	137.11	138.91	138.40	139.06	137.62	138.11	136.77	136.41	136.20
Min.	136.02	136.02	136.36	136.37	136.46	137.64	137.55	137.01	136.77	136.42	136.22	136.09

WATER YEAR 1960 : Max. 139.06 m. Min. 136.02 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	7.13	71	33	52	339	538	313	145	87	38	21
2	11	6.76	57	40	55	354	543	274	163	87	40	21
3	11	6.39	54	44	58	434	505	253	201	87	39	20
4	11	7.15	48	45	60	466	452	237	316	74	36	20
5	12	6.76	49	60	54	443	362	216	505	76	37	18
6	13	9.70	63	76	54	403	313	207	529	69	38	16
7	12	11	66	71	52	407	412	190	490	69	36	16
8	11	11	73	127	51	462	915	187	407	69	34	15
9	11	9.70	98	165	52	674	1,139	176	350	66	32	15
10	13	11	106	165	58	680	877	160	291	64	33	16
11	13	15	110	129	63	656	698	158	237	64	33	16
12	11	21	92	118	63	639	582	152	204	66	31	15
13	11	22	81	106	81	616	466	142	190	69	29	15
14	10	22	74	89	104	604	403	138	168	64	28	12
15	9.70	18	63	78	150	598	399	142	155	71	28	12
16	9.70	16	64	66	256	598	728	131	145	71	27	13
17	9.70	20	78	67	382	610	1,190	133	138	60	26	14
18	9.15	22	79	69	354	716	997	135	127	57	26	13
19	9.70	23	64	61	309	748	800	129	118	52	27	12
20	8.60	22	54	58	281	668	576	131	120	52	28	11
21	7.13	25	48	52	439	576	529	150	118	53	25	11
22	7.50	36	43	45	982	466	495	150	110	51	28	9.15
23	7.13	129	43	40	1,115	416	645	150	104	49	23	10
24	7.13	94	54	39	1,005	412	692	158	98	49	24	9.70
25	8.05	110	56	39	716	434	587	155	98	49	22	11
26	7.13	140	54	40	582	462	448	147	98	47	23	10
27	6.02	204	43	49	570	421	399	145	91	45	24	9.70
28	5.65	168	42	54	490	374	403	147	92	43	22	9.70
29	5.65	124	35	55	462	391	448	142	91	44		10
30	6.02	104	33	52	416	466	399	145	89	47		14
31		81		52	378		347		87	42		9.70
Total	285	1,502	1,895	2,184	9,744	15,533	18,285	5,093	6,075	1,893	837	425
Mean	9.50	48.4	63.2	70.5	314	518	590	170	196	61.1	29.9	13.7
Max.	13	204	110	165	1,115	748	1,190	313	529	87	40	21
Min.	5.65	6.39	33	33	51	339	313	129	87	42	22	9.15
Runoff - mcm.	24.624	129.773	163.728	188.698	841.882	1,342.051	1,579.824	440.035	524.880	163.555	72.317	36.720

WATER YEAR 1960 : Max. 1,190 Min. 5.65 Mean 175 Annual Runoff 5,508.087 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 17	18.00	139.09	1,216				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Ping River at Wang Kra Chao, Tak (P.12)

Location: Lat 17°- 14' - 30" N, Long 99°- 00' - 45" E, on right bank 4 kilometers downstream from Yanhee Damsite, Amphoe Sam Ngao, Tak.

Drainage Area: 26,390 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +135.19 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: 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 hourly 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: Rather unstable, no shifting adjustment but mean hourly discharge is included for flow computation for periods of flashly high flood.

Overbank Flow Conditions: No overbank flow.

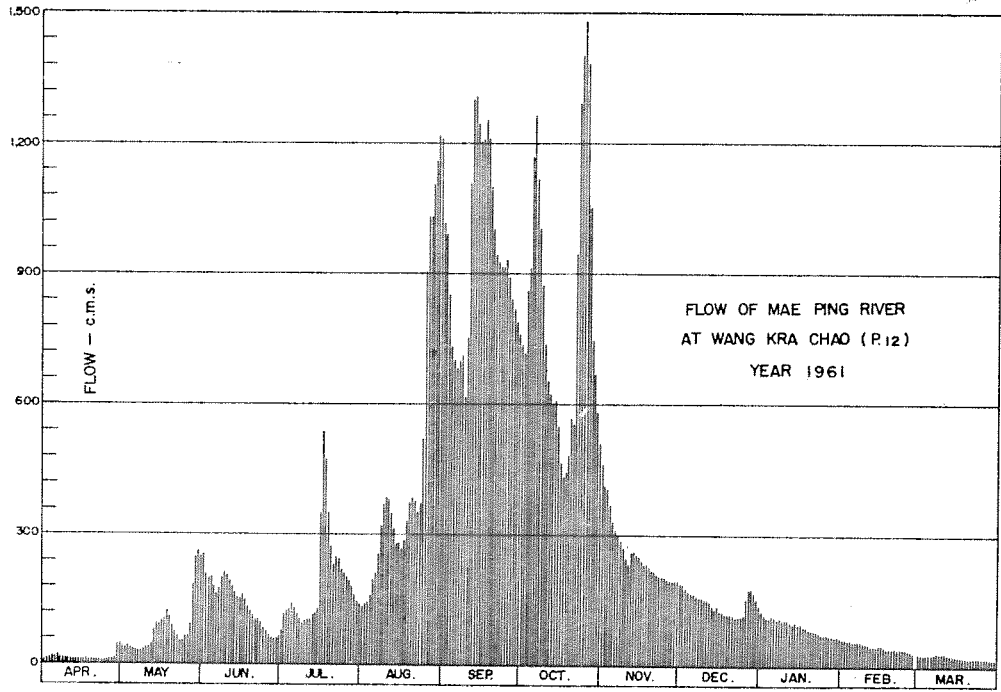
General Description: Records good. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.12	136.38	137.29	136.64	136.87	139.00	138.55	137.97	137.19	136.93	136.57	136.39
2	.17	.35	.22	.79	.89	138.84	.51	.85	.18	.91	.57	.38
3	.19	.38	.16	.82	.91	.74	.76	.76	.15	.88	.56	.38
4	.25	.34	.11	.84	.97	.63	.85	.69	.13	.88	.56	.37
5	.25	.32	.04	.88	137.03	.56	139.06	.64	.11	.88	.55	.37
6	136.21	136.30	136.98	136.85	137.14	138.54	139.22	137.59	137.10	136.87	136.55	136.36
7	.17	.28	137.02	.78	.29	.54	.13	.56	.08	.85	.55	.38
8	.13	.28	.11	.72	.48	.50	138.98	.52	.07	.84	.54	.41
9	.10	.32	.15	.69	.62	.42	.78	.47	.06	.82	.53	.41
10	.08	.34	.13	.72	.66	.58	.55	.44	.05	.80	.53	.41
11	136.06	136.36	137.08	136.72	137.64	139.12	138.39	137.42	137.04	136.79	136.53	136.39
12	.05	.40	.04	.73	.56	.34	.33	.43	.03	.77	.51	.37
13	.05	.62	136.99	.78	.46	.35	.29	.44	.02	.75	.50	.36
14	.05	.72	.94	.80	.36	.28	.21	.42	.01	.73	.50	.35
15	.04	.70	.93	.83	.36	.23	.09	.40	136.99	.71	.51	.33
16	136.04	136.76	136.96	137.44	137.34	139.24	137.99	137.38	136.98	136.71	136.51	136.32
17	.07	.87	.93	138.01	.38	.29	.92	.35	.96	.70	.49	.32
18	.05	.90	.86	137.87	.52	.24	.87	.34	.95	.69	.48	.31
19	.04	.82	.81	.56	.62	.11	.95	.32	.94	.67	.47	.31
20	.02	.68	.76	.34	.65	138.97	138.10	.31	.93	.66	.47	.30
21	136.03	136.60	136.72	137.26	137.63	138.89	138.19	137.29	136.92	136.66	136.47	136.29
22	.02	.53	.73	.37	.57	.86	.77	.27	.91	.65	.47	.29
23	.01	.45	.70	.24	.62	.85	139.25	.26	.90	.64	.47	.29
24	.00	.45	.65	.17	.97	.85	.45	.25	.91	.62	.46	.28
25	.03	.53	.58	.13	138.61	.87	.53	.24	.95	.62	.46	.28
26	136.05	136.56	136.55	137.12	138.85	138.81	139.43	137.23	137.05	136.62	136.45	136.27
27	.06	.71	.50	.08	.92	.73	.05	.22	.15	.61	.42	.27
28	.11	137.06	.49	.03	139.03	.68	138.57	.21	.15	.60	.40	.26
29	.41	.31	.50	136.97	.11	.64	.42	.21	.08	.60	.26	.26
30	.42	.31	.52	.91	.19	.59	.24	.21	.02	.59	.25	.25
31		.35		.88	.18		.10		136.97	.58		.25
Mean	136.09	136.61	136.88	137.03	137.75	138.88	138.60	137.43	137.03	136.73	136.50	136.33
Max.	136.42	137.35	137.29	138.01	139.19	139.35	139.53	137.97	137.19	136.93	136.57	136.41
Min.	136.00	136.28	136.49	136.64	136.87	138.42	137.87	137.21	136.90	136.58	136.40	136.25

WATER YEAR 1961 : Max. 139.53 m. Min. 136.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	44	257	88	137	1,018	737	456	187	124	61	30
2	14	40	213	118	142	991	715	406	185	113	61	29
3	16	44	198	125	147	848	860	406	177	113	59	29
4	21	39	201	130	162	732	917	368	172	113	59	28
5	21	36	181	139	198	700	1,167	329	167	115	57	28
6	24	34	165	132	210	684	1,269	311	164	111	57	27
7	20	31	176	116	257	732	1,117	300	159	106	57	29
8	17	31	201	103	321	710	1,004	287	157	109	55	32
9	15	36	214	97	372	618	872	270	154	104	53	32
10	13	39	207	103	387	753	737	242	152	106	53	32
11	12	42	192	103	380	1,109	653	236	150	106	50	30
12	12	47	181	105	350	1,298	623	258	147	100	48	28
13	12	80	157	116	314	1,307	603	261	133	96	46	27
14	12	96	154	120	279	1,243	608	254	131	98	46	26
15	11	93	152	127	279	1,201	551	248	133	93	48	24
16	11	102	160	350	273	1,209	465	242	124	93	48	23
17	13	119	152	537	286	1,252	434	233	122	91	44	23
18	12	124	134	474	335	1,209	446	230	119	88	42	22
19	11	111	122	350	372	1,100	483	224	117	84	41	22
20	10	90	112	273	384	998	565	221	119	81	41	21
21	10	77	103	232	376	943	555	215	113	81	41	20
22	10	66	105	248	353	924	945	210	111	79	41	20
23	9.50	54	99	241	372	917	1,288	207	109	77	41	20
24	9.00	54	90	220	519	917	1,402	204	111	72	40	20
25	10	66	76	207	904	930	1,480	201	119	72	40	20
26	12	70	67	204	1,031	891	1,383	198	154	72	38	19
27	12	94	62	192	1,031	842	1,055	196	174	70	34	19
28	15	187	60	178	1,106	812	748	193	174	68	31	18
29	48	248	62	162	1,162	788	668	193	167	68	31	18
30	50	263	66	147	1,218	759	579	193	154	66	31	17
31		251	139	139	1,211		514		138	63		17
Total	473	2,708	4,329	5,876	14,868	28,435	25,443	7,792	4,493	2,832	1,332	750
Mean	15.8	87.3	144	190	480	948	821	260	145	91.3	47.6	24.2
Max.	50	263	257	537	1,218	1,307	1,480	456	187	124	61	32
Min.	9.00	31	60	88	137	618	434	193	109	63	31	17
Runoff - mcm.	40.867	233.971	374.026	587.686	1,284.595	2,456.784	2,198.275	673.229	388.195	244.685	115.085	64.800

WATER YEAR 1961 : Max. 1,480 Min. 9.00 Mean 271 Annual Runoff 8,582.198 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 25	21.00	139.57	1,520				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Ping River at Wang Kra Chao, Tak (P.12)

Location: Lat 17°- 14' - 30" N, Long 99°- 00' - 45" E, on right bank 4 kilometers downstream from Yanhee Damsite, Amphoe Sam Ngao, Tak.

Drainage Area: 26,390 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +135.19 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: 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 hourly 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

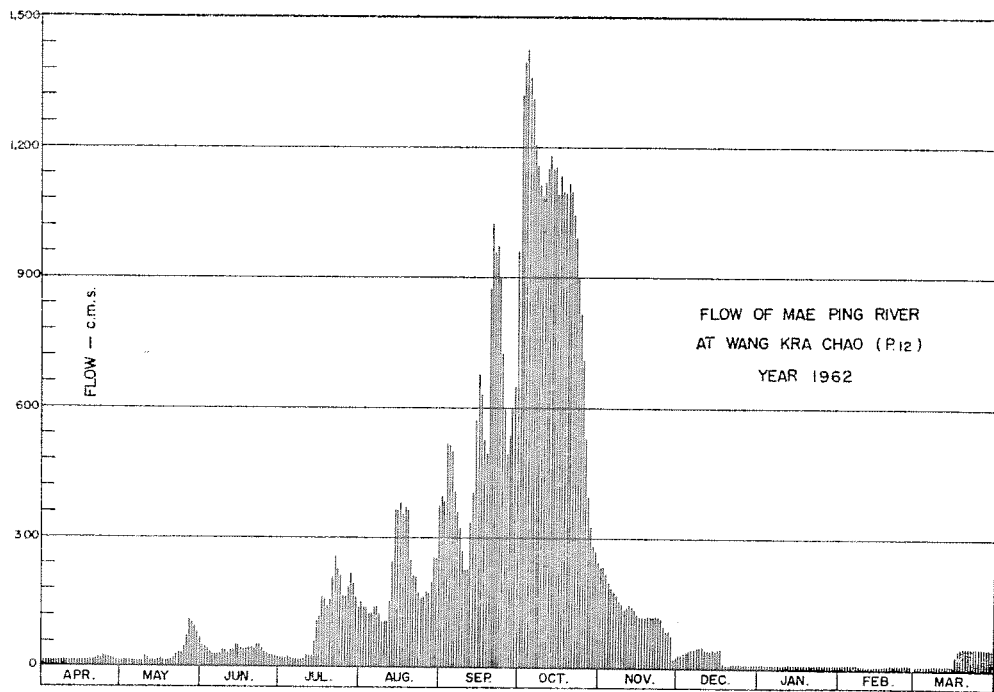
General Description: Records good. The data presented is made by discharge measurements during 1962. Upstream state diversions for irrigation of about 28,000 hectares. Since Nov.25, flow regulated the closure at Yanhee Reservoir which is 4 kilometers above. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.25	136.20	136.51	136.30	136.91	137.49	139.17	137.24	136.29	135.04	135.99	135.97
2	.25	.20	.48	.30	.86	.46	.33	.24	.30	.04	.99	.97
3	.25	.20	.48	.30	.86	.74	.37	.18	.32	.04	.99	.97
4	.24	.19	.43	.32	.82	.84	.33	.11	.33	.04	.99	.97
5	.23	.19	.43	.30	.84	.73	.26	.06	.35	.04	.99	.98
6	136.23	136.20	136.40	136.28	136.88	137.56	139.17	137.02	136.35	136.04	135.99	135.98
7	.22	.20	.40	.26	.88	.46	.09	136.99	.35	.04	.99	.98
8	.22	.20	.43	.26	.82	.38	.01	.96	.35	.04	.98	.98
9	.21	.21	.47	.25	.76	.25	138.99	.94	.36	.03	.98	.99
10	.21	.36	.45	.30	.75	.13	139.08	.93	.37	.03	.98	.99
11	136.21	136.27	136.44	136.36	136.77	137.13	139.14	136.92	136.35	136.03	135.98	135.99
12	.21	.22	.47	.36	.89	.39	.15	.91	.33	.03	.98	.99
13	.21	.22	.47	.36	137.11	.61	.13	.90	.33	.02	.98	.98
14	.22	.22	.52	.57	.37	.90	.09	.88	.33	.02	.98	.99
15	.22	.24	.50	.84	.44	238.11	.02	.87	.33	.02	.98	.99
16	136.21	136.24	136.48	136.94	137.52	138.06	139.03	136.85	136.34	136.02	135.98	136.17
17	.21	.22	.47	137.10	.57	137.88	.07	.82	.34	.01	.98	.28
18	.21	.21	.47	.09	.51	.84	.07	.81	.18	.01	.98	.28
19	.24	.22	.50	.02	.37	138.61	.04	.81	.03	.00	.98	.28
20	.24	.26	.49	.10	.20	.89	.00	.81	.04	.00	.98	.28
21	136.27	136.29	136.50	137.26	137.10	138.91	138.94	136.80	136.04	136.00	135.98	136.28
22	.30	.37	.51	.38	.05	.83	.86	.80	.05	.00	.98	.27
23	.31	.45	.51	.35	.00	.68	.75	.79	.05	.00	.98	.27
24	.32	.45	.50	.24	136.99	.40	.59	.79	.05	.00	.98	.27
25	.31	.54	.45	.13	.99	.07	.37	.73	.05	135.99	.98	.27
26	136.28	136.62	136.42	137.10	136.99	137.82	138.03	136.66	136.05	135.99	135.98	136.27
27	.26	.82	.39	.21	.99	.91	137.74	.68	.05	.99	.98	.27
28	.24	.80	.37	.27	137.03	.99	.56	.59	.05	.99	.98	.27
29	.22	.74	.35	.19	.19	138.06	.43	.24	.05	.99	.27	.27
30	.21	.66	.33	.09	.40	.64	.33	.28	.05	.99	.27	.27
31		.68		136.99	.47		.26		.05	.99		.14
Mean	136.24	136.35	136.45	136.77	137.07	137.92	138.75	136.85	136.21	136.01	136.12	136.12
Max.	136.32	136.82	136.52	137.38	137.57	138.91	139.37	137.24	136.37	136.04	135.99	136.28
Min.	136.21	136.19	136.33	136.25	136.75	137.13	137.26	136.24	136.03	135.99	135.98	135.97

WATER YEAR 1962 : Max. 139.37 m. Min. 135.97 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	15	51	23	154	393	1,316	231	30	8.00	10	9.00
2	17	16	43	23	141	385	1,395	231	32	9.20	10	9.00
3	16	16	42	23	138	516	1,424	218	36	8.60	10	9.00
4	16	15	34	25	124	511	1,359	196	37	8.60	10	9.00
5	16	15	32	20	130	498	1,309	184	40	8.60	10	10
6	16	15	30	20	141	406	1,211	175	42	8.60	10	10
7	16	15	30	20	141	360	1,158	169	44	8.60	10	10
8	16	15	33	19	124	324	1,115	156	44	8.60	9.00	10
9	16	16	42	19	108	272	1,087	148	47	8.00	8.00	10
10	16	29	37	21	108	225	1,122	135	48	8.60	8.00	10
11	16	22	33	28	111	229	1,150	140	43	8.60	8.00	10
12	16	17	39	28	154	336	1,180	145	40	8.60	8.00	10
13	16	16	40	27	244	406	1,150	143	40	8.00	8.00	10
14	16	16	52	63	364	571	1,143	133	42	8.60	8.00	10
15	16	19	50	109	364	675	1,094	123	39	8.60	8.00	9.00
16	16	20	43	128	389	630	1,129	118	43	8.60	8.00	31
17	16	16	42	163	356	533	1,094	116	45	8.60	8.00	47
18	16	15	42	161	368	494	1,094	116	8.60	9.20	9.00	50
19	18	16	44	143	361	871	1,115	118	5.60	8.60	9.00	52
20	18	19	47	158	248	1,022	1,101	116	6.00	9.20	10	52
21	20	22	44	212	214	960	1,042	116	7.20	9.20	10	52
22	22	30	52	255	210	972	992	118	7.60	9.20	10	51
23	22	34	52	238	174	898	900	116	7.60	9.20	10	51
24	25	32	44	215	160	755	817	114	8.00	9.80	10	50
25	24	45	34	166	164	595	709	98	7.60	9.20	9.00	50
26	22	74	32	166	174	494	528	83	7.60	9.20	9.00	50
27	20	109	30	187	174	538	395	85	7.60	9.20	10	50
28	19	103	29	218	200	600	327	74	7.60	9.20	10	48
29	16	93	27	193	252	545	279	21	7.60	9.20		50
30	15	80	26	166	352	960	272	25	7.60	9.20		48
31		67		143	372		242		8.00	9.20		32
Total	530	1,033	1,176	3,380	6,669	17,074	30,249	3,961	796.20	273.80	257.00	909.00
Mean	17.7	33.3	39.2	109	215	569	976	132	25.7	8.83	9.18	29.3
Max.	25	109	52	255	389	1,022	1,424	231	48	9.80	10	52
Min.	15	15	26	19	108	225	242	21	5.60	8.00	8.00	9.00
Runoff - mcm.	45.792	89.251	101.606	292.032	576.202	1,475.194	2,613.514	342.230	68.792	23.674	22.295	78.538

WATER YEAR 1962 : Max. 1,424 Min. 5.60 Mean 181 Annual Runoff 5,705.355 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.31	12.00	139.37	1,424				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PING RIVER BASIN

Mae Taeng River at Kaeng Kut, Chiang Mai (P.13)

Location: Lat 19° - 12' - 38" N, Long 98° - 52' - 20" E, on left bank 1 kilometer downstream from Ban Kut, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,765 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.71 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.6

Location: Near the gage site.
Elevation: +444.360 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: 1952 to date.
Rated by Float: -
Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

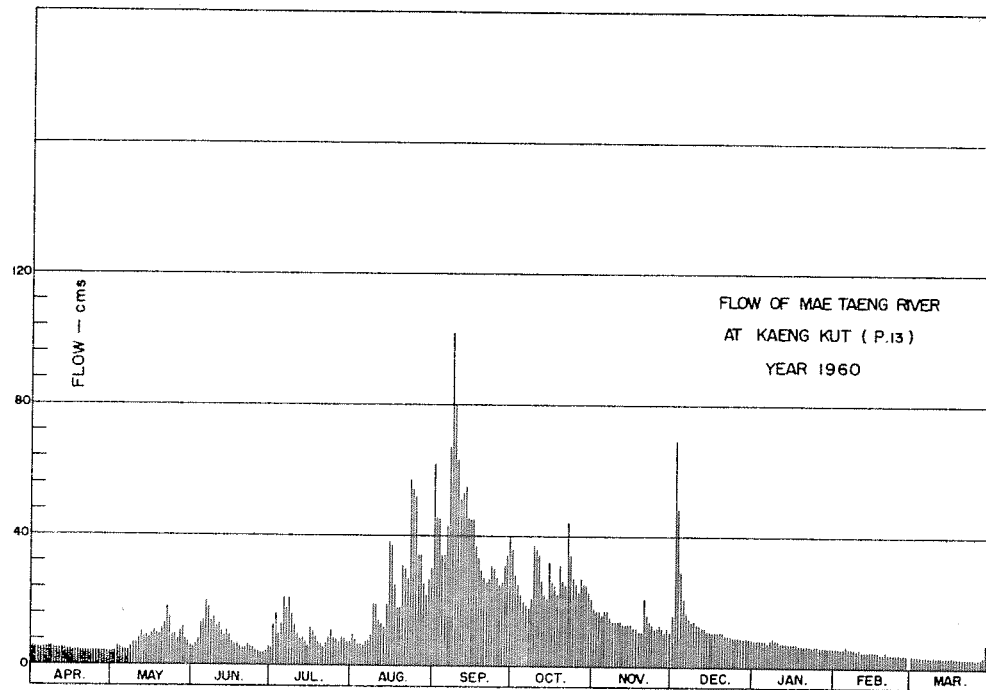
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.88	441.78	441.85	441.84	441.97	442.77	442.44	442.15	442.11	441.93	441.85	441.78
2	.87	.80	.87	442.04	.92	.63	.32	.14	.94	.93	.86	.77
3	.86	.90	.93	.12	.88	.61	.27	.13	.36	.93	.85	.77
4	.86	.88	442.06	441.97	.88	.45	.22	.11	.36	.92	.85	.77
5	.86	.86	.08	442.04	.87	.44	.19	.14	.21	.92	.87	.77
6	441.87	441.83	442.19	442.21	441.90	442.58	442.17	442.13	442.14	441.91	441.86	441.76
7	.88	.82	.15	.15	.91	.81	.15	.09	.10	.93	.84	.75
8	.88	.88	.07	.22	.97	443.24	.16	.07	.08	.94	.84	.75
9	.87	.99	.10	.12	442.18	442.94	.42	.07	.07	.93	.83	.75
10	.86	442.00	.03	.06	.18	.78	.41	.07	.05	.92	.84	.75
11	441.86	441.89	442.06	441.98	442.08	442.71	442.37	442.07	442.04	441.91	441.82	441.75
12	.85	.96	.00	.93	.06	.73	.25	.06	.03	.90	.82	.75
13	.84	.86	441.96	.94	.02	.76	.19	.05	.02	.90	.82	.74
14	.82	.82	442.00	.90	.17	.62	.17	.05	.01	.89	.82	.74
15	.80	.80	441.97	.88	.51	.61	.34	.04	.00	.89	.82	.74
16	441.80	441.87	441.90	442.03	442.50	442.62	442.25	442.03	442.00	441.89	441.82	441.74
17	.80	.92	.87	.01	.28	.50	.23	.02	.00	.89	.82	.74
18	.80	.87	.88	441.95	.15	.43	.19	.01	441.99	.88	.80	.74
19	.80	.85	.86	.91	.16	.37	.33	.01	.99	.88	.80	.74
20	.79	.94	.84	.88	.40	.33	.25	.21	.99	.88	.82	.73
21	441.79	442.12	441.85	441.86	442.37	442.31	442.24	442.12	441.98	441.88	441.80	441.73
22	.79	.27	.88	.89	.49	.32	.53	.08	.97	.87	.79	.73
23	.79	.17	.86	.96	.50	.39	.37	.04	.97	.87	.79	.72
24	.79	.05	.85	.99	.75	.37	.27	.03	.96	.87	.79	.71
25	.79	.02	.82	.92	.72	.33	.23	.02	.96	.87	.79	.71
26	441.78	441.97	441.81	441.93	442.62	442.28	442.20	442.04	441.95	441.86	441.78	441.71
27	.77	442.06	.80	.89	.44	.30	.26	.02	.94	.86	.78	.71
28	.77	.08	.79	.94	.30	.42	.23	.01	.94	.86	.78	.75
29	.76	441.96	.81	.93	.23	.45	.23	.03	.94	.86	.88	.88
30	.76	.93	.85	.90	.33	.54	.20	.07	.94	.86	.81	.81
31		.88		.90	443.38		.17		.93	.85		.75
Mean	441.82	441.93	441.93	441.98	442.26	442.55	442.27	442.07	442.06	441.89	441.82	442.75
Max.	441.88	442.27	442.19	442.22	443.38	443.24	442.53	442.21	442.94	441.93	441.87	441.88
Min.	441.76	441.78	441.79	441.84	441.87	442.28	442.15	442.01	441.93	441.85	441.78	441.71

WATER YEAR 1960 : Max. 443.38 m. Min. 441.71 m..



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.00	4.20	6.32	5.68	10	53	35	18	12	9.52	5.04	3.40
2	5.68	4.00	6.64	13	8.88	43	28	18	70	8.88	5.36	3.20
3	5.36	6.96	7.92	13	7.60	42	24	17	34	8.88	5.04	3.20
4	5.36	6.32	12	9.84	7.60	32	22	16	34	8.56	5.04	3.20
5	5.36	5.04	12	12	7.28	32	21	18	24	8.56	5.68	3.20
6	5.68	4.72	17	20	8.24	40	20	17	21	8.24	5.36	3.00
7	6.00	4.40	15	17	8.56	56	19	15	17	8.88	4.72	2.80
8	6.00	5.04	12	21	10	98	21	14	16	9.20	4.72	2.80
9	5.68	8.56	14	16	20	17	36	14	15	8.88	4.40	2.80
10	5.36	8.88	11	14	20	58	36	14	14	8.56	4.72	2.80
11	5.36	5.36	13	11	15	51	33	14	14	8.24	4.20	2.80
12	5.04	7.60	11	9.52	14	54	26	14	13	7.92	4.20	2.80
13	4.70	4.40	9.84	9.84	13	54	23	13	13	7.92	4.20	2.60
14	5.04	3.60	12	8.24	20	44	22	13	13	7.60	4.20	2.60
15	4.72	4.00	11	7.28	41	43	31	13	12	7.60	4.20	2.60
16	4.72	6.00	8.88	12	41	44	26	13	12	7.60	4.20	2.60
17	4.72	8.24	8.24	11	27	37	24	12	12	7.60	4.20	2.60
18	4.72	6.00	8.56	9.20	20	34	23	12	12	7.28	3.80	2.60
19	4.72	5.36	7.60	8.24	21	30	31	12	12	7.28	3.80	2.60
20	4.40	8.24	6.64	7.60	34	28	26	21	12	7.28	4.20	2.40
21	4.40	15	6.64	6.96	32	27	26	17	11	7.28	3.80	2.40
22	4.40	21	7.60	7.92	40	27	43	15	11	6.96	3.60	2.40
23	4.40	16	7.28	10	36	31	33	13	11	6.96	3.60	2.25
24	4.40	11	7.28	11	53	30	27	13	10	6.96	3.60	2.10
25	4.40	9.84	6.64	8.88	50	28	24	12	10	6.96	3.60	2.10
26	4.20	8.24	6.64	9.20	45	24	23	13	10	6.64	3.40	2.10
27	4.00	11	6.32	7.92	32	26	27	12	9.84	6.64	3.40	2.10
28	4.00	12	6.00	9.52	24	33	24	12	9.84	6.64	3.40	3.00
29	3.80	8.24	6.64	9.20	21	36	24	13	9.84	6.64	3.40	3.00
30	3.80	7.60	7.60	8.24	26	41	23	14	9.84	5.04	3.40	4.00
31		6.64		8.24	108		19		9.52	5.04		3.00
Total	146.44	243.48	279.28	332.52	821.16	1,247	820	432	493.88	236.24	119.88	88.05
Mean	4.88	7.85	9.31	10.7	26.5	41.6	26.4	14.4	15.5	7.62	4.28	2.84
Max.	6.00	21	17	21	108	98	43	21	70	9.52	5.68	6.00
Min.	3.80	3.60	6.00	5.68	7.28	24	19	12	9.52	5.04	3.40	2.10
Runoff - BCM.	12.652	21.037	24.130	28.730	70.948	107.741	70.848	37.325	41.634	20.411	10.358	7.608

WATER YEAR 1960 : Max. 108 Min. 2.10 Mean 14.4 Annual Runoff 454.458 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 31	06.00	443.49	119				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Taeng River at Kaeng Kut, Chiang Mai (P.13)

Location: Lat 19° - 12' - 38" N, Long 98° - 52' - 20" E, on left bank 1 kilometer downstream Ban Kut, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,765 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.71 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.6

Location: Near the gage site.
Elevation: +444.360 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: 1952 to date.
Rated by Float: -
Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

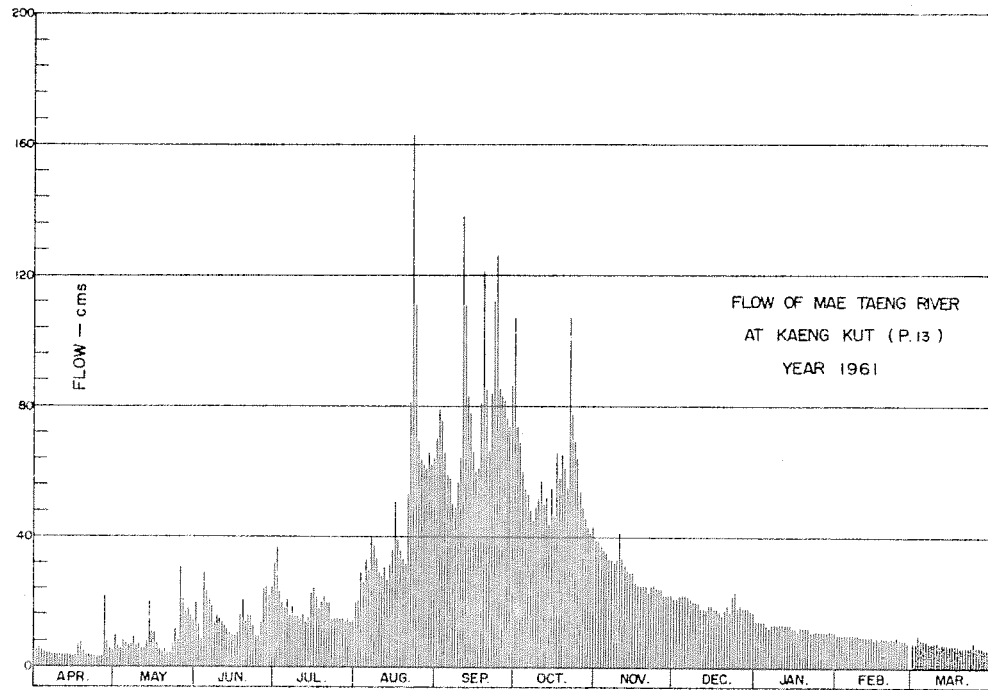
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1961. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.75	441.93	442.20	442.28	442.03	442.81	443.31	442.61	442.36	442.14	442.02	441.90
2	.79	.81	.02	.24	.06	.99	.02	.62	.36	.14	.01	.90
3	.75	.78	441.90	.12	.21	.94	442.97	.59	.36	.14	.01	.96
4	.74	.87	442.38	.04	.16	.81	.88	.57	.35	.14	.00	.91
5	.72	.86	.29	441.99	.27	.74	.83	.55	.35	.13	.00	.90
6	41.72	441.81	442.23	442.05	442.27	442.72	442.80	442.53	442.34	442.12	442.00	441.90
7	.71	.83	.17	441.97	.52	.62	.74	.52	.33	.12	441.99	.88
8	.71	.91	.06	442.00	.42	.60	.72	.51	.32	.12	.99	.88
9	.71	.81	.09	441.94	.29	.70	.72	.51	.30	.12	.99	.87
10	.71	.84	.08	.94	.20	.84	.77	.63	.28	.11	.99	.86
11	41.71	441.79	442.06	441.98	442.19	443.50	442.85	442.52	442.27	442.11	441.99	441.85
12	.70	.78	.01	442.01	.24	.28	.89	.49	.27	.11	.98	.85
13	.70	.86	441.99	441.96	.18	.07	.76	.47	.26	.11	.96	.85
14	.70	442.21	.95	.97	.25	.03	.69	.45	.25	.11	.95	.84
15	.70	441.96	.92	442.12	.35	442.91	.77	.45	.23	.10	.95	.83
16	441.69	441.95	441.92	442.15	442.63	442.83	442.72	442.44	442.21	442.10	441.94	441.83
17	.81	.86	.95	.10	.43	.86	.87	.43	.21	.10	.94	.83
18	.86	.78	442.10	.02	.35	443.07	.87	.41	.20	.09	.94	.82
19	.76	.75	.23	.06	.31	.32	.91	.41	.20	.09	.94	.82
20	.71	.76	.05	.07	.32	442.99	.91	.40	.19	.09	.94	.81
21	441.70	441.73	442.09	442.04	442.59	442.90	442.80	442.39	442.19	442.09	441.93	441.81
22	.70	.73	.10	.06	.96	443.12	443.29	.39	.18	.08	.93	.81
23	.69	.83	.01	441.98	443.71	.38	.08	.39	.29	.08	.93	.81
24	.68	.98	441.92	.98	.15	.48	442.92	.39	.32	.07	.95	.81
25	.69	.89	.92	.97	442.86	.17	.86	.38	.21	.07	.93	.81
26	441.70	442.43	442.06	441.99	442.73	443.16	442.79	442.38	442.19	442.06	441.92	441.81
27	442.25	.23	.29	.94	.73	.13	.75	.37	.18	.06	.92	.81
28	441.87	.14	.30	.95	.72	.06	.70	.37	.17	.05	.92	.80
29	.80	.16	.25	.95	.79	442.95	.65	.36	.16	.04	.80	.80
30	.76	.11	.32	.94	.72	443.11	.63	.36	.15	.04	.80	.80
31		.09		.94	.76		.66		.14	.03		.80
Mean	441.75	441.92	442.09	442.02	442.50	443.00	442.84	442.46	442.25	442.09	441.96	441.84
Max.	442.25	442.43	442.38	442.28	443.71	443.50	443.31	442.63	442.36	442.14	442.02	441.96
Min.	441.68	441.73	441.90	441.94	442.03	442.80	442.63	442.36	442.14	442.03	441.92	441.80

WATER YEAR 1961 : Max. 443.71 m. Min. 441.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.02	11	21	27	17	62	110	45	22	13	11	7.88
2	3.90	6.60	13	31	19	78	74	46	22	13	10	7.56
3	3.02	5.64	8.20	24	26	73	70	44	22	13	10	9.64
4	4.34	8.56	30	20	24	65	62	42	22	13	10	7.88
5	3.90	7.56	25	18	30	59	56	41	22	13	10	8.20
6	3.90	5.96	22	21	30	57	55	40	21	13	10	8.20
7	3.68	6.60	19	17	46	49	51	39	21	13	9.64	7.56
8	3.68	10	14	18	39	48	49	38	20	13	9.64	7.56
9	3.68	6.92	15	15	31	55	49	38	19	13	9.64	7.24
10	3.68	7.88	15	15	26	67	53	36	18	12	9.64	6.92
11	3.68	6.28	14	17	28	139	57	39	18	12	9.64	7.24
12	3.46	5.96	13	15	30	113	60	37	18	12	9.28	7.24
13	3.46	8.56	12	13	27	80	50	30	17	12	8.56	7.24
14	3.46	21	11	14	31	76	45	29	17	12	9.64	6.92
15	3.46	10	9.64	21	37	65	51	29	19	12	9.64	6.60
16	3.24	10	9.64	22	50	59	47	26	18	12	9.28	6.60
17	6.28	8.92	11	20	36	61	59	26	18	12	9.28	6.60
18	7.88	6.28	17	19	32	80	59	25	18	11	9.28	6.28
19	5.32	5.32	23	21	33	119	62	25	18	11	9.28	6.28
20	4.12	5.64	15	21	33	83	62	24	17	11	9.28	5.96
21	3.90	4.78	16	20	52	74	55	24	17	11	8.92	5.96
22	3.90	4.78	17	19	77	89	102	24	17	11	8.92	5.96
23	3.68	7.88	13	15	166	113	80	24	22	11	8.92	6.60
24	3.46	13	10	15	104	124	65	24	24	11	9.64	6.60
25	3.68	10	10	15	73	84	60	23	18	11	8.92	6.60
26	3.90	34	16	15	62	85	55	23	19	10	8.56	6.60
27	22	23	28	13	62	80	52	23	19	12	8.56	5.96
28	6.28	18	28	14	61	73	48	23	16	12	7.88	5.64
29	6.28	19	25	14	60	64	44	22	18	11	5.64	5.64
30	5.00	17	29	13	55	88	46	22	17	11	5.64	5.64
31		16		13	58		49		17	11		5.64
Total	143.24	332.12	509.48	555	1,455	2,360	1,850	941	593	368	263.04	212.44
Mean	4.77	10.7	17.0	17.9	46.9	78.7	59.3	31.4	19.1	11.9	9.39	6.85
Max.	22	34	30	31	166	139	110	46	24	13	11	9.64
Min.	3.02	4.78	8.20	13	17	48	44	22	17	10	7.88	5.64
Runoff - mcm.	12.376	28.695	44.019	47.952	125.715	203.904	158.890	81.302	51.235	31.795	22.727	18.355

WATER YEAR 1961 : Max. 166 Min. 3.02 Mean 26.2 Annual Runoff 826.962 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23	13.00	443.93	194				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Taeng River at Kut, Chiang Mai (P.13)

Location: Lat 19°- 12' - 38" N, Long 98°- 52' - 27" E, on left bank 1 kilometer downstream of Ban Kut, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,765 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.71 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.6

Location: Near the gage site.

Elevation: +444.360

Gage Reading Frequency: 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: 1952 to date.

Rated by Float: -

Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

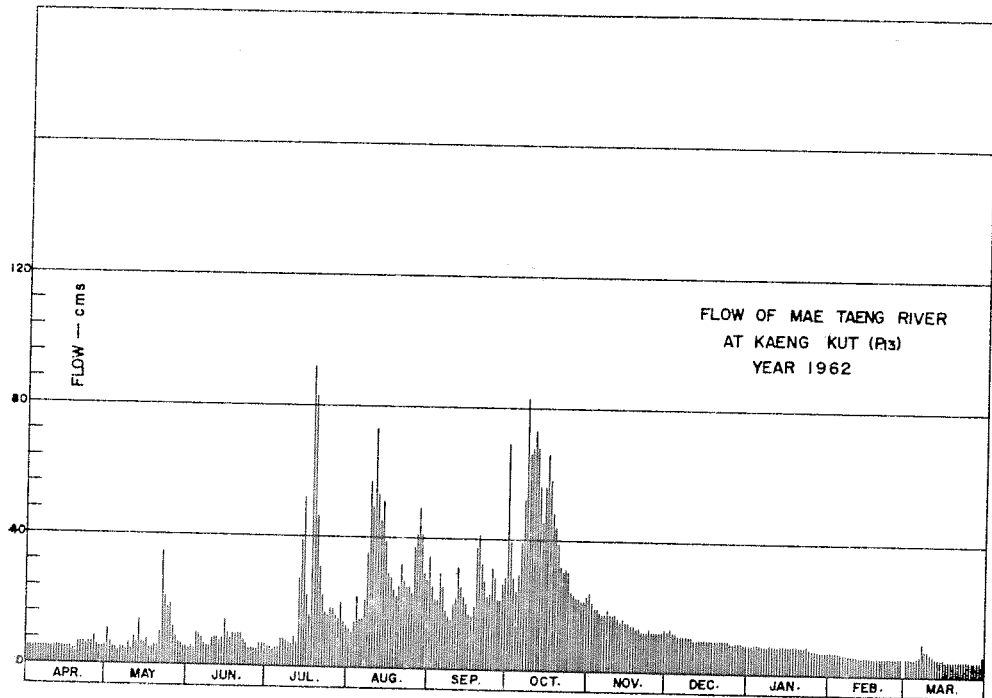
General Description: Records good. The data presented is made by discharge measurements during 1962. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.80	441.93	441.77	441.76	441.92	442.32	442.80	442.23	441.96	441.86	441.80	441.75
2	.79	.82	.78	.74	.91	.21	.40	.19	.96	.86	.80	.75
3	.79	.78	.95	.72	.99	.19	.28	.16	.95	.86	.79	.74
4	.78	.78	.99	.75	442.11	.19	.21	.15	.95	.86	.79	.74
5	.78	.75	.96	.78	.01	.27	.30	.14	.94	.85	.79	.74
6	441.78	441.78	441.90	441.85	442.00	442.22	442.42	442.13	441.94	441.85	441.78	441.72
7	.78	.78	.85	.88	.11	.12	.58	.12	.93	.85	.78	.85
8	.78	.76	.80	.86	.39	.06	.90	.11	.93	.85	.78	.79
9	.78	.80	.80	.83	.58	.03	.77	.09	.93	.85	.77	.78
10	.78	.79	.87	.79	.50	.13	.80	.08	.93	.34	.77	.75
11	441.78	441.96	441.88	441.91	442.78	442.20	442.82	442.07	441.92	441.84	441.77	441.75
12	.80	.86	.88	.84	.57	.37	.78	.06	.92	.84	.76	.74
13	.78	442.10	.86	442.28	.47	.24	.64	.05	.92	.84	.76	.73
14	.78	442.10	.86	442.28	.47	.24	.51	.05	.92	.84	.76	.73
15	.77	.83	442.06	.58	.43	.14	.65	.03	.92	.84	.76	.72
16	441.80	441.88	441.97	442.23	442.30	442.10	442.71	442.03	441.92	441.84	441.75	441.72
17	.78	.81	.92	.09	.28	.06	.65	.02	.91	.84	.75	.72
18	.76	.78	.95	.96	.21	.15	.54	.02	.91	.84	.75	.72
19	.76	.80	.93	.69	.17	.43	.49	.01	.91	.84	.75	.71
20	.83	.80	.95	.51	.22	.43	.45	.01	.91	.83	.75	.71
21	441.86	442.00	441.92	442.30	442.33	442.30	442.39	442.00	441.90	441.83	441.75	441.71
22	.86	.42	.86	.15	.26	.24	.34	.00	.90	.83	.75	.71
23	.82	.18	.81	.08	.21	.17	.31	441.99	.90	.82	.75	.71
24	.86	.15	.78	.05	.24	.18	.28	.99	.90	.82	.75	.71
25	.82	.16	.76	.10	.18	.31	.26	.98	.89	.81	.75	.70
26	441.90	442.00	441.78	442.08	442.41	442.25	442.25	441.98	441.88	441.81	441.75	441.70
27	.82	441.93	.78	.01	.46	.20	.24	.98	.88	.81	.75	.69
28	.78	.87	.81	.01	.59	.16	.22	.97	.88	.81	.75	.69
29	.78	.82	.81	.11	.48	.19	.21	.97	.87	.80	.75	.69
30	.79	.79	.79	.00	.31	.29	.21	.97	.87	.80	.75	.76
31		.78		441.97	.25		.22		.87	.80		.73
Mean	441.80	441.90	441.87	442.07	442.30	442.21	442.47	442.05	441.91	441.83	441.76	441.73
Max.	441.90	442.42	442.06	442.96	442.78	442.43	442.90	442.23	441.96	441.86	441.80	441.85
Min.	441.76	441.75	441.76	441.72	441.91	442.03	442.21	441.97	441.87	441.80	441.75	441.69

WATER YEAR 1962 : Max. 442.96 m. Min. 441.69 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.56	11	5.20	6.28	11	33	69	24	12	8.44	7.00	5.56
2	5.20	7.00	5.56	5.56	11	25	39	21	12	8.44	7.00	5.56
3	5.56	5.56	12	4.96	15	21	28	20	12	8.80	6.64	5.20
4	5.20	5.56	11	4.72	21	21	23	19	12	8.80	6.64	5.20
5	5.20	4.72	9.68	5.56	16	28	29	18	11	8.44	6.64	5.20
6	5.20	5.56	7.36	8.08	15	25	39	18	11	8.44	6.28	5.20
7	5.20	5.56	7.72	9.24	21	19	52	17	11	8.44	6.28	6.28
8	5.20	4.96	5.92	8.44	39	16	83	18	11	8.44	5.92	7.72
9	5.20	6.28	5.92	7.36	54	15	66	17	11	8.44	5.56	7.36
10	5.20	5.92	8.44	5.92	48	20	68	16	10	8.08	5.56	6.28
11	5.20	8.80	8.84	10	73	22	73	16	10	8.44	5.56	6.28
12	5.92	5.20	8.80	6.28	53	33	68	16	10	8.44	5.20	5.92
13	5.20	15	8.08	28	45	24	56	15	10	8.44	5.20	5.56
14	5.20	6.28	8.44	36	50	23	45	15	10	8.44	5.20	5.56
15	4.96	6.64	15	50	42	20	56	14	10	8.44	5.20	4.72
16	5.92	8.44	10	25	30	17	64	14	10	8.44	4.96	4.72
17	5.20	5.92	8.44	17	29	16	58	14	10	8.44	4.96	4.72
18	4.72	4.96	9.68	88	24	20	49	14	10	8.44	4.96	4.72
19	4.72	5.56	8.80	62	22	38	45	13	10	8.44	4.96	4.48
20	7.00	5.56	9.68	47	25	41	40	13	10	8.04	4.96	4.48
21	7.00	11	10	31	32	31	33	13	10	8.08	4.96	4.48
22	7.00	35	8.08	22	27	27	30	13	10	8.08	4.96	4.48
23	5.56	20	6.28	18	24	23	31	12	10	7.72	4.96	4.48
24	7.00	18	5.20	16	26	24	29	12	10	7.72	4.96	4.48
25	6.28	19	4.72	19	22	32	24	12	10	7.36	4.96	4.24
26	9.24	11	5.92	18	37	28	24	12	9.24	7.36	4.96	4.24
27	6.28	8.44	5.92	16	41	22	23	12	9.24	7.36	4.96	4.00
28	5.56	6.28	7.00	16	50	21	22	13	9.24	7.36	4.96	4.00
29	5.56	7.00	7.00	21	41	23	21	13	8.80	7.00		4.00
30	5.92	5.92	6.28	15	29	29	21	13	8.80	7.00		5.92
31		5.56		14	28		23		8.80	7.00		4.96
Total	172.16	281.68	240.96	641.40	1,001	737	1,331	457	317.12	250.80	154.36	160.00
Mean	5.74	9.09	8.03	20.7	32.3	24.6	42.9	15.2	10.5	8.09	5.51	5.16
Max.	9.24	35	15	88	73	41	83	24	12	8.80	7.00	7.72
Min.	4.72	4.72	4.72	4.72	11	15	21	12	8.80	7.00	4.96	4.00
Runoff - mcm.	14.874	24.337	20.819	55.417	86.486	63.677	114.998	39.485	27.399	21.662	13.337	13.824

WATER YEAR 1962 : Max. 88 Min. 4.00 Mean 15.7 Annual Runoff 496.326 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 18	20.00	443.29	125				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PING RIVER BASIN

Mae Chaem Creek at Kaeng Ob Luang, Chiang Mai (P.14)

Location: Lat 18° - 13' - 49" N, Long 98° - 38' - 35" E, on right bank near the bridge on highway Hot - Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +275.84 m.(M.S.L.O)

Bench Mark: B.M. - H.S./R.I.D. No.13

Location: Infront of the camp office of station P.14

Elevation: +282.079 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: 1953 to date.

Rating Operation:

Period of Rating: 1953 - 60

Rated by Float: -

Rated by Current Meter: 1953 - 60

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

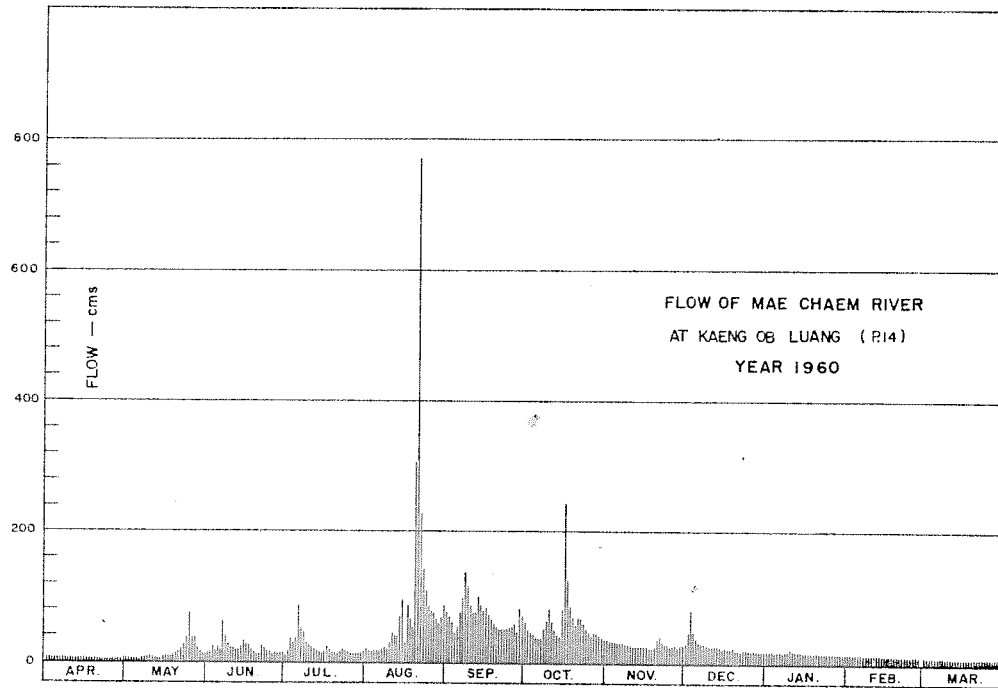
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.43	276.42	276.63	276.74	276.96	277.63	277.51	277.24	277.18	276.92	276.80	276.66
2	.43	.40	.65	.90	.91	.56	.38	.20	.42	.92	.79	.65
3	.43	.39	277.06	277.23	.90	.47	.35	.19	.74	.92	.78	.64
4	.43	.38	276.82	.13	.94	.30	.28	.18	.39	.91	.78	.64
5	.43	.37	.94	.24	.93	.39	.25	.17	.23	.91	.78	.64
6	276.43	276.36	276.79	277.72	276.97	277.62	277.23	277.17	277.18	276.91	276.77	276.63
7	.44	.39	277.45	.40	277.03	.80	.25	.17	.15	.91	.77	.63
8	.43	.55	.18	.33	.07	278.07	.46	.16	.12	.90	.76	.61
9	.42	.51	.00	.15	.02	277.98	.58	.16	.08	.93	.76	.60
10	.42	.62	276.91	.05	.16	.79	.75	.15	.07	277.00	.76	.59
11	276.42	276.53	276.91	277.02	277.35	277.70	277.53	277.14	277.07	276.93	276.75	276.59
12	.42	.48	.88	276.94	.28	.69	.40	.14	.06	.90	.75	.58
13	.41	.47	.90	.87	.28	.84	.32	.14	.04	.90	.75	.57
14	.41	.44	277.06	.85	.63	.74	.28	.13	.03	.90	.74	.57
15	.40	.58	.15	.81	.83	.62	.71	.12	.02	.89	.74	.56
16	276.40	276.58	277.05	276.91	278.06	277.71	278.61	277.12	277.01	276.86	276.73	276.56
17	.39	.59	.00	277.02	277.76	.61	.07	.11	.00	.86	.73	.55
18	.39	.58	276.88	276.93	.53	.52	277.71	.10	276.99	.86	.72	.55
19	.39	.63	.80	.85	.43	.45	.59	.11	.99	.85	.72	.55
20	.39	.76	.76	.80	278.44	.39	.49	.24	.98	.85	.72	.54
21	276.38	276.80	276.78	276.76	280.13	277.37	277.60	277.30	276.98	276.85	276.71	276.56
22	.37	.94	277.04	.83	278.57	.38	.60	.20	.97	.85	.71	.56
23	.36	277.07	276.97	.97	.16	.38	.52	.14	.97	.85	.70	.56
24	.36	.27	.82	.91	277.90	.46	.42	.12	.96	.84	.70	.55
25	.37	.62	.81	.86	.76	.44	.36	.10	.96	.84	.69	.55
26	276.39	277.18	276.74	276.81	277.65	277.42	277.33	277.10	276.95	276.84	276.69	276.55
27	.38	.21	.77	.82	.61	.46	.39	.12	.95	.83	.68	.54
28	.36	276.98	.77	.79	.46	.35	.34	.10	.95	.82	.67	.54
29	.36	.81	.82	.83	.41	.66	.30	.11	.94	.81	.69	.59
30	.52	.77	.80	.86	.47	.55	.27	.11	.94	.81	.67	.57
31		.73		.89	.75		.25		.94	.80		.65
Mean	276.40	276.69	276.90	276.97	277.53	277.58	277.49	277.15	277.11	276.88	276.74	276.59
Max.	276.52	277.62	277.45	277.72	280.13	278.07	278.61	277.30	277.74	277.00	276.80	276.67
Min.	276.36	276.36	276.63	276.74	276.90	277.30	277.23	277.10	276.94	276.80	276.67	276.54

WATER YEAR 1960 : Max. 280.13 m. Min. 276.36 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.96	5.40	15	12	22	78	62	36	32	19	15	10
2	4.96	5.18	17	18	18	71	50	34	49	19	14	9.93
3	4.74	4.96	24	37	17	62	47	33	81	19	14	9.62
4	4.74	4.96	17	31	19	47	44	32	48	18	14	9.62
5	4.52	4.96	24	38	18	55	39	31	37	18	14	9.62
6	4.52	4.96	18	88	20	78	38	31	33	18	14	9.31
7	5.18	4.96	64	53	23	100	38	30	30	18	14	9.31
8	4.74	8.00	40	48	25	139	57	30	30	18	13	9.00
9	4.02	7.75	28	32	23	119	68	30	28	19	13	8.50
10	4.96	9.62	22	27	32	88	84	28	27	23	13	8.25
11	5.18	8.50	22	25	46	75	63	27	27	19	13	8.25
12	4.96	7.25	19	22	43	79	51	26	27	18	13	8.00
13	4.74	6.75	20	19	43	104	44	26	27	18	13	7.75
14	4.74	5.62	26	17	75	90	42	26	25	18	12	7.75
15	4.52	9.62	34	15	98	78	82	26	24	17	12	7.50
16	4.74	10	28	19	131	86	245	27	25	17	12	7.50
17	4.52	10	26	26	90	73	128	25	23	17	12	7.25
18	4.74	9.93	19	21	69	67	87	24	23	17	12	7.25
19	4.74	12	15	17	57	63	69	25	24	16	12	7.25
20	4.74	14	13	15	308	55	59	37	22	16	12	7.00
21	4.74	17	14	14	770	51	70	41	20	16	11	7.50
22	4.30	22	26	17	230	53	70	33	20	16	11	7.50
23	4.30	29	22	22	144	52	61	30	22	16	11	7.50
24	4.52	38	17	19	113	53	52	30	21	16	11	7.25
25	4.52	75	17	17	83	55	47	26	20	16	11	7.25
26	4.96	37	13	15	79	57	44	27	20	16	11	7.25
27	4.74	38	16	14	78	61	48	28	20	15	11	7.00
28	4.52	23	14	14	66	48	44	26	20	15	10	7.00
29	4.30	17	15	15	63	85	41	27	19	15	10	8.25
30	7.75	15	15	16	76	71	39	28	19	15	10	10
31		14	17	17	92		38		19	14		9.93
Total	143.61	479.42	660	760	2,976	2,193	1,951	880	862	532	348	255.09
Mean	4.79	15.5	22.0	24.5	96.0	73.1	62.9	29.3	27.8	17.1	12.4	8.23
Max.	7.75	75	64	88	770	139	245	41	81	23	15	10
Min.	4.02	4.96	13	12	17	47	38	24	19	14	10	7.00
Runoff - mcm.	12.408	41.422	57.024	65.664	257.106	189.475	168.566	76.032	74.477	45.965	30.067	22.040

WATER YEAR 1960 : Max. 770 Min. 4.02 Mean 33.0 Annual Runoff 1,040.093 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	12.00	280.59	1,030				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Chaem Creek at Kaeng Ob Luang, Chiang Mai (P.14)

Location: Lat 18°-13' - 49" N, Long 98°-38' - 35" E, on right bank near the bridge on highway Hot - Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +275.84 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.13

Location: Infront of the camp office of station P.14
Elevation: +282.079 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: 1953 to date.

Rating Operation:

Period of Rating: 1953 - 60

Rated by Float: -

Rated by Current Meter: 1953 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

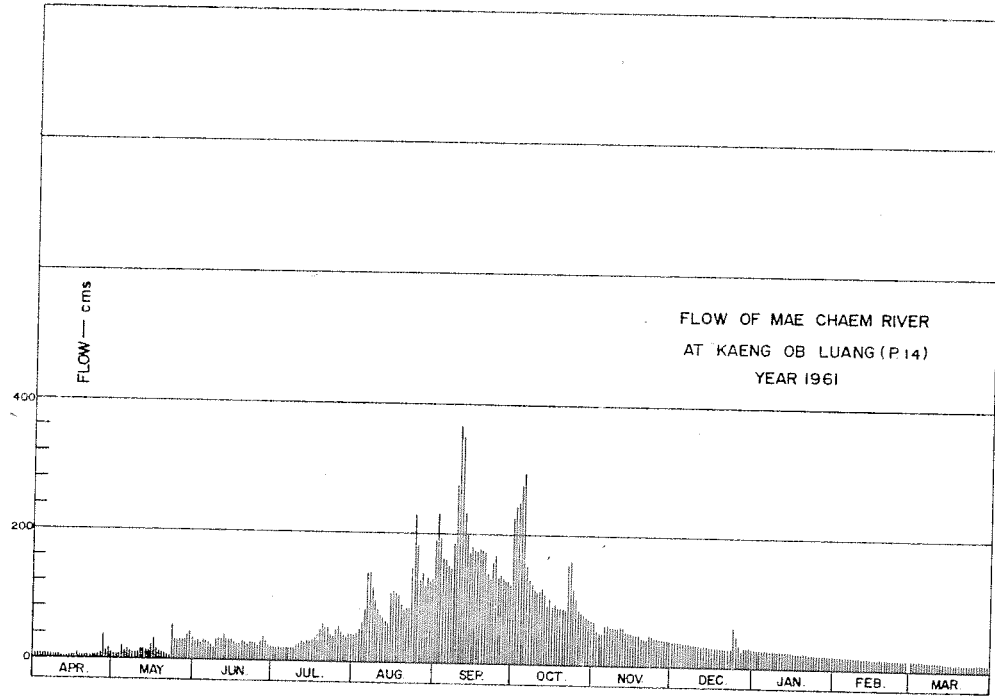
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1953 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.58	276.58	277.07	276.97	277.26	278.35	278.56	277.52	277.23	277.09	276.93	276.81
2	.57	.65	.10	.96	.31	.57	.64	.39	.22	.07	.93	.80
3	.57	.61	.02	.94	.38	.37	.67	.35	.21	.06	.92	.79
4	.56	.93	.12	.95	.50	.18	.82	.35	.21	.06	.92	.79
5	.56	.78	.05	.96	.66	.17	.37	.46	.20	.07	.91	.78
6	276.55	276.87	277.07	276.97	278.04	278.11	278.12	277.47	277.19	277.06	276.91	276.77
7	.54	.78	276.98	.97	.04	.08	277.99	.44	.18	.05	.90	.77
8	.54	.75	.91	.98	277.89	.33	.94	.44	.17	.05	.90	.76
9	.53	.71	277.11	.96	.73	.90	.88	.42	.16	.04	.90	.76
10	.52	.78	.16	277.01	.63	279.21	.85	.45	.16	.04	.89	.75
11	276.50	276.85	277.14	277.10	277.56	279.14	277.88	277.46	277.15	277.03	276.88	276.74
12	.48	.82	.25	.11	.53	278.59	.91	.43	.15	.03	.87	.73
13	.55	.81	.14	.09	.48	.40	.85	.38	.14	.02	.86	.72
14	.51	.79	.13	.14	.45	.23	.69	.37	.13	.01	.85	.71
15	.49	277.04	.15	.11	.83	.30	.79	.36	.13	.01	.84	.70
16	276.49	277.14	277.07	277.15	277.86	278.26	277.69	277.35	277.12	277.00	276.84	276.69
17	.65	276.84	.03	.21	.83	.25	.72	.33	.12	276.99	.83	.68
18	.52	.75	.05	.28	.81	.28	.68	.32	.11	.99	.84	.67
19	.51	.72	.12	.35	.69	.26	.68	.28	.10	.98	.84	.66
20	.52	.71	.08	.45	.62	.25	.67	.26	.09	.98	.84	.66
21	276.52	276.59	277.00	277.38	277.66	278.04	277.66	277.26	277.08	276.97	276.83	276.66
22	.52	.56	.07	.39	.66	277.98	278.14	.33	.08	.97	.83	.67
23	.52	277.39	.06	.22	278.09	278.14	.17	.32	.07	.97	.83	.67
24	.49	.11	.04	.24	.56	.22	277.88	.29	.47	.96	.83	.68
25	.58	.00	.02	.36	.19	277.98	.76	.27	.34	.95	.83	.68
26	276.68	277.15	277.09	277.41	277.96	278.04	277.64	277.26	277.17	276.95	276.82	276.67
27	277.20	.11	.21	.33	278.04	.00	.63	.26	.04	.94	.82	.66
28	276.78	.12	.11	.25	277.90	277.97	.60	.25	.12	.94	.82	.66
29	.84	.23	.01	.21	278.00	.97	.57	.25	.12	.94	.82	.65
30	.68	.29	276.96	.28	277.95	.93	.53	.24	.11	.93	.82	.64
31		.13		.27	.99		.53		.10	.93		.64
Mean	276.58	276.89	277.08	277.16	277.78	278.28	277.92	277.35	277.16	277.00	276.86	276.71
Max.	277.20	277.39	277.25	277.45	278.56	279.21	278.82	277.52	277.47	277.09	276.93	276.81
Min.	276.48	276.56	276.91	276.94	277.26	277.93	277.53	277.24	277.04	276.93	276.82	276.64

WATER YEAR 1961 : Max. 279.21 m. Min. 276.48 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.50	8.50	30	24	44	191	229	69	41	31	22	16
2	8.25	10	32	24	48	231	245	56	41	30	22	16
3	8.25	9.30	27	23	55	195	250	52	40	30	22	16
4	8.00	22	33	23	67	163	280	52	40	30	22	16
5	8.00	15	29	24	87	161	195	65	39	30	21	15
6	7.75	19	30	24	140	152	153	64	38	30	21	15
7	7.50	15	25	24	140	147	132	61	38	29	21	15
8	7.50	14	21	25	118	187	125	61	37	29	21	14
9	7.25	12	33	24	96	296	116	59	36	28	21	14
10	7.00	15	36	27	83	365	112	62	36	28	20	14
11	6.50	18	35	32	74	349	116	63	35	28	20	14
12	6.10	17	43	33	71	235	120	60	35	28	19	13
13	7.75	16	35	31	65	200	109	55	35	27	19	13
14	6.75	16	34	35	62	171	91	54	34	27	18	12
15	6.30	28	35	33	109	182	104	53	34	27	18	12
16	6.30	35	30	35	113	176	91	52	33	26	18	12
17	10	18	28	40	109	174	95	50	33	25	17	11
18	7.00	14	29	45	106	179	89	49	33	25	18	11
19	6.75	13	33	52	91	176	89	45	32	25	18	11
20	7.00	12	31	62	82	174	88	44	31	25	18	11
21	7.00	8.75	26	55	87	140	87	44	31	24	17	11
22	7.00	8.00	30	56	87	131	156	50	31	24	17	11
23	7.00	56	30	41	148	156	161	49	30	24	17	11
24	6.30	26	28	42	229	169	116	46	64	24	17	11
25	8.50	32	27	53	164	131	102	45	51	23	17	11
26	11	35	31	58	128	140	84	44	57	23	17	11
27	39	33	40	50	140	134	85	44	28	23	17	11
28	15	33	33	43	119	129	79	43	33	23	17	11
29	18	41	27	40	134	129	75	43	33	23	17	11
30	11	46	24	45	126	123	71	42	33	22	10	10
31		34		45	132		71		32	22	10	10
Total	278.25	680.55	925	1,168	3,254	5,486	3,914	1,574	1,124	813	532	389
Mean	9.27	21.9	30.8	37.6	105	185	126	52.4	36.2	26.2	19	12.5
Max.	39	56	43	62	229	365	280	69	64	31	22	16
Min.	6.10	8.00	21	23	44	123	71	42	28	22	17	10
Runoff - mcm.	24.041	58.752	79.920	100.915	281.146	473.990	338.170	135.994	97.114	70.243	45.965	33.610

WATER YEAR 1961 : Max. 365 Min. 6.10 Mean 55.2 Annual Runoff 1,739.906 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 10	06.00	279.23	370				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
PING RIVER BASIN

Mae Chaem Creek at Kaeng Ob Luang, Chiang Mai (P.14)

Location: Lat 18°- 13' - 49" N, Long 98°- 38' - 35" E, on right bank near the bridge on highway Hot - Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +275.84 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.13

Location: Infront of the camp office of station P.14
Elevation: +282.079 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: 1953 to date.

Rating Operation:

Period of Rating: 1953 - 60
Rated by Float: -
Rated by Current Meter: 1953 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

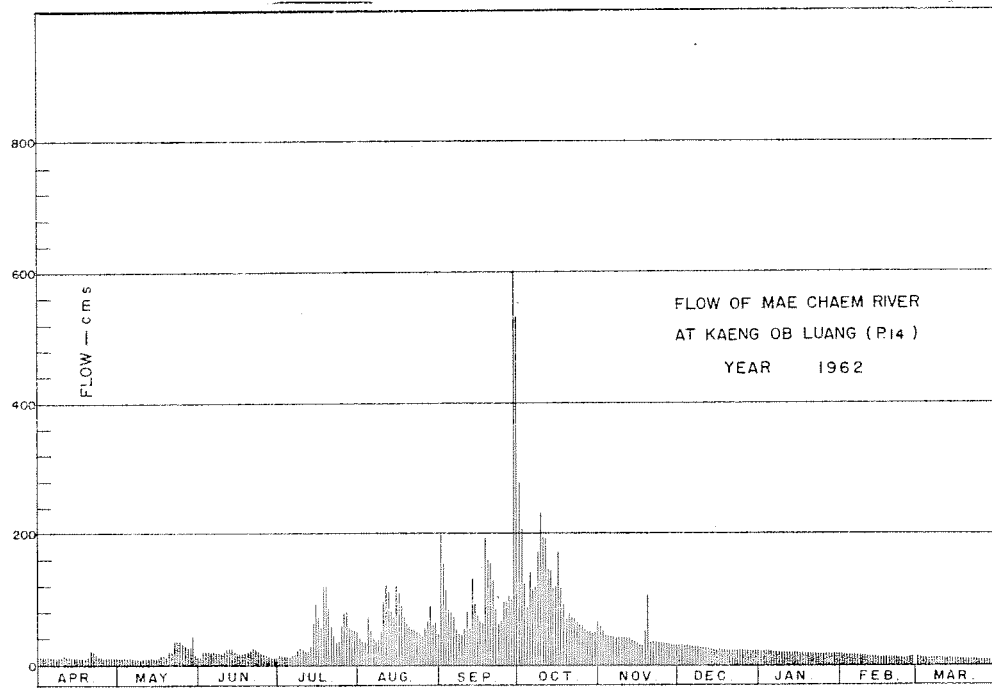
Overbank Flow Conditions: No overbank flow.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1953 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.64	276.61	276.66	276.77	277.21	278.41	278.72	277.42	277.07	276.92	276.82	276.82
2	.63	.60	.86	.76	.16	.12	.42	.35	.06	.91	.82	.69
3	.63	.59	.87	.75	.14	277.86	277.94	.29	.06	.91	.82	.68
4	.63	.58	.88	.72	.56	.63	.67	.27	.06	.91	.81	.68
5	.62	.58	.86	.69	.36	.60	278.05	.26	.05	.91	.81	.67
6	276.62	276.57	276.87	276.77	277.25	277.54	277.87	277.25	277.04	276.89	276.80	276.67
7	.61	.56	.85	.81	.16	.38	.91	.23	.04	.89	.80	.68
8	.61	.56	.84	.90	.18	.31	278.23	.24	.04	.88	.79	.68
9	.60	.55	.81	277.00	.34	.29	.58	.24	.03	.88	.78	.67
10	.70	.57	.86	276.96	.73	.40	.36	.24	.02	.88	.77	.66
11	276.67	276.59	276.96	276.91	277.92	277.61	278.37	277.23	277.01	276.87	276.76	276.65
12	.64	.60	.96	.87	.85	278.37	.07	.22	.00	.87	.75	.64
13	.63	.64	.97	277.05	.63	277.98	.06	.19	276.99	.87	.74	.63
14	.62	.63	.86	.46	.54	.69	277.88	.16	.96	.86	.73	.62
15	.62	.62	.83	.70	.92	.57	.90	.13	.95	.86	.72	.62
16	276.62	276.61	276.81	277.53	277.83	277.48	278.24	277.09	276.97	276.86	276.71	276.61
17	.62	.75	.82	.37	.68	.45	277.89	.07	.96	.86	.71	.60
18	.61	.72	.81	.91	.57	278.36	.70	.35	.96	.85	.76	.59
19	.66	.70	.86	.91	.44	.16	.51	.80	.95	.85	.70	.59
20	.88	.89	.92	.64	.41	.13	.59	.13	.95	.85	.69	.58
21	276.86	276.87	276.98	277.41	277.37	277.96	277.54	277.15	276.95	276.85	276.69	276.58
22	.77	277.14	.94	.25	.38	.64	.53	.16	.94	.85	.69	.58
23	.71	.15	.88	.13	.33	.44	.48	.15	.94	.85	.68	.57
24	.67	.14	.83	.16	.32	.51	.44	.13	.94	.84	.68	.56
25	.65	.08	.79	.46	.35	.74	.43	.12	.94	.84	.68	.55
26	276.65	277.03	276.76	277.59	277.41	277.74	277.38	277.11	276.94	276.84	276.68	276.56
27	.63	276.98	.73	.62	.51	.79	.34	.10	.93	.84	.71	.56
28	.62	.94	.69	.37	.68	.76	.35	.89	.93	.83	.72	.55
29	.62	277.24	.67	.36	.44	280.04	.32	.07	.93	.83	.55	.55
30	.61	276.74	.68	.35	.49	279.74	.33	.07	.92	.83	.55	.55
31		.67		.33	.27		.48		.92	.83	.54	.54
Mean	276.65	276.76	276.84	277.21	277.46	277.89	277.82	277.21	276.98	276.86	276.74	276.62
Max.	276.88	277.24	276.98	277.91	277.92	280.04	278.72	277.80	277.07	276.92	276.82	276.82
Min.	276.60	276.55	276.66	276.69	277.14	277.29	277.32	277.07	276.92	276.83	276.68	276.54

WATER YEAR 1962 : Max. 280.04 m. Min. 276.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	9.30	11	15	40	202	260	59	30	22	17	12
2	9.90	9.00	19	14	36	153	204	52	30	21	17	12
3	9.90	8.75	19	14	35	113	125	46	30	21	17	11
4	9.90	8.50	20	13	74	83	88	45	30	21	16	11
5	9.60	8.50	19	12	53	79	142	44	29	21	16	11
6	9.60	8.25	19	15	43	72	115	43	28	20	16	11
7	9.30	8.00	18	16	36	55	120	41	28	20	16	11
8	9.30	8.00	18	21	38	48	171	42	28	20	16	11
9	9.00	7.75	16	26	51	46	233	42	28	20	15	11
10	12	8.25	19	24	96	57	193	42	27	20	15	11
11	11	8.75	24	21	122	80	195	41	27	19	14	10
12	10	9.00	24	19	112	195	145	41	26	19	14	10
13	9.90	10	24	29	83	131	144	38	25	19	14	9.90
14	9.60	9.90	19	63	72	91	116	36	24	19	13	9.60
15	9.60	9.60	17	92	122	75	119	34	23	19	13	9.60
16	9.60	9.30	16	71	109	65	172	31	24	19	12	9.30
17	9.60	14	17	54	89	62	118	30	24	19	12	9.00
18	9.30	13	16	120	75	195	92	52	24	18	12	8.75
19	11	12	19	120	61	160	68	105	23	18	12	8.75
20	20	20	22	84	58	155	78	34	23	18	12	8.50
21	19	19	25	58	54	128	72	35	23	18	12	8.50
22	15	35	23	43	55	84	71	36	23	18	12	8.50
23	12	35	20	34	50	61	65	35	23	18	11	8.25
24	11	35	17	36	49	68	61	34	23	18	11	8.00
25	10	31	16	63	52	97	60	33	23	18	11	7.75
26	10	28	14	78	58	97	55	33	23	18	11	8.00
27	9.90	25	13	82	68	104	51	32	22	18	12	8.00
28	9.60	23	10	54	89	100	52	31	22	17	13	7.75
29	9.60	42	11	53	61	603	49	30	22	17		7.75
30	9.30	14	11	52	66	503	50	30	22	17		7.75
31		11		50	45		65		22	17		7.50
Total	333.50	497.85	538	1,446	2,052	3,960	3,549	1,227	779	587	382	293.15
Mean	11.1	16.1	17.9	46.6	66.2	132	114	40.9	25.1	18.9	13.6	9.46
Max.	20	42	25	120	122	603	260	105	30	22	17	12
Min.	9.00	7.75	11	12	35	46	49	30	22	17	11	7.50
Runoff - mcm.	28.014	43.014	46.483	124.934	177.293	329.962	306.634	106.013	67.306	50.717	33.005	25.328

WATER YEAR 1962 : Max. 603 Min. 7.50 Mean 42.9 Annual Runoff 1,351.685 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 30	06.00	280.52	770				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PING RIVER BASIN

Mae Chaem Creek at Mae Chaem Bridge, Chiang Mai (P.14A)

Location: Lat 18° - 12' - 02" N, Long 98° - 37' - 01" E, on right bank at upstream side of bridge on highway Hot - Chiang Mai, Amphoe Hot, Chiang Mai.

Drainage Area: 3,909 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +262.70 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.11

Location: Infront of camp office of station P.14A

Elevation: +267.062 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60

Rated by Float: -

Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

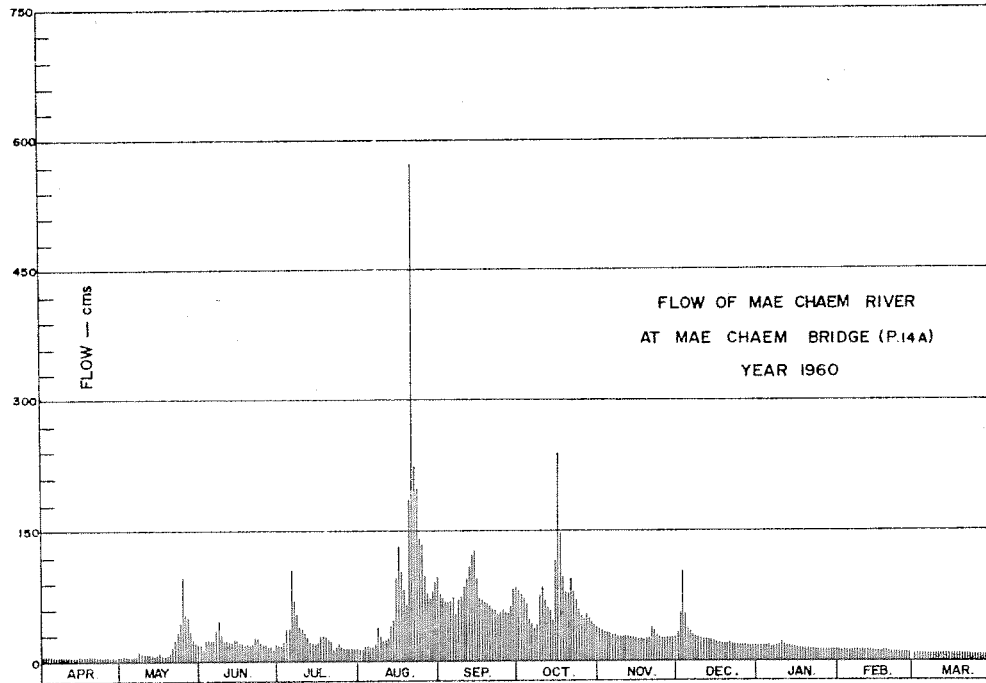
General Description:

Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1958 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	262.74	262.74	262.98	262.95	262.89	263.29	263.57	263.20	263.15	262.95	262.88	262.81
2	.74	.74	.90	.94	.89	.25	.54	.16	.38	.95	.88	.81
3	.74	.74	263.04	263.02	.95	.19	.50	.15	.72	.95	.98	.81
4	.74	.73	.04	.21	.95	.19	.45	.14	.35	.95	.88	.81
5	.73	.73	.02	.19	.94	.22	.29	.13	.20	.95	.88	.81
6	262.73	262.73	263.04	263.73	262.94	263.26	263.25	263.11	263.16	262.94	262.89	262.81
7	.73	.74	.18	.48	263.00	.34	.20	.11	.11	.95	.89	.81
8	.73	.85	.29	.35	.22	.49	.25	.09	.10	.96	.88	.80
9	.73	.80	.11	.22	.09	.52	.54	.09	.07	.96	.87	.80
10	.73	.80	.02	.18	.03	.63	.60	.09	.07	263.02	.87	.80
11	262.73	262.80	263.04	263.12	263.04	263.68	263.48	263.08	263.05	262.96	262.87	262.80
12	.73	.79	.02	.08	.08	.76	.42	.08	.04	.95	.87	.80
13	.73	.78	.01	.00	.24	.84	.38	.08	.04	.95	.87	.80
14	.73	.74	.06	.00	.33	.87	.29	.07	.03	.94	.86	.80
15	.73	.80	.03	262.99	.68	.66	.80	.06	.02	.93	.86	.80
16	262.73	262.83	263.00	263.02	263.90	263.50	264.42	263.05	263.01	262.92	262.86	262.80
17	.73	.75	.00	.10	.72	.48	263.98	.05	.01	.91	.85	.80
18	.73	.74	262.96	.10	.59	.47	.68	.04	.00	.91	.85	.80
19	.74	.77	.98	.08	.45	.45	.56	.05	.00	.91	.85	.79
20	.75	.82	.95	.05	264.18	.43	.55	.18	262.99	.91	.84	.79
21	262.75	262.94	263.01	263.02	263.36	263.40	263.67	263.22	262.99	262.90	262.84	262.79
22	.75	263.03	.08	262.90	264.36	.39	.57	.16	.98	.90	.84	.79
23	.74	.16	.07	.94	.24	.34	.49	.10	.98	.89	.83	.78
24	.74	.29	262.99	.99	263.94	.38	.39	.07	.97	.89	.82	.78
25	.73	.68	.97	.94	.90	.40	.33	.07	.97	.89	.82	.78
26	262.73	263.35	262.96	262.92	263.69	263.37	263.30	263.07	262.96	262.89	262.82	262.78
27	.72	.31	.94	.91	.55	.37	.35	.08	.96	.89	.82	.78
28	.71	.15	.94	.89	.50	.43	.31	.07	.96	.89	.81	.77
29	.70	.03	.89	.91	.58	.59	.27	.08	.95	.89		.77
30	.75	.00	.99	.90	.66	.60	.24	.08	.95	.89		.83
31		262.98		.89	.69		.21		.95	.88		.82
Mean	262.75	262.91	263.01	263.06	263.50	263.46	263.48	263.10	263.07	262.92	262.85	262.80
Max.	262.75	263.68	263.29	263.73	265.36	263.87	264.42	263.22	263.72	263.02	262.89	262.83
Min.	262.70	262.73	262.90	263.89	262.89	263.19	263.20	263.04	262.95	262.88	262.81	262.77

WATER YEAR 1960 : Max. 265.36 m. Min. 262.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.00	5.00	19	17	15	46	80	37	33	17	12	8.55
2	5.00	5.00	13	16	13	42	76	34	57	17	12	8.55
3	5.00	5.00	24	22	17	37	71	33	102	17	12	8.55
4	5.00	4.50	24	38	17	37	65	32	53	17	12	8.55
5	4.50	4.50	22	37	16	39	46	31	37	17	12	8.55
6	4.50	4.50	24	104	16	43	42	30	34	16	13	8.55
7	4.50	5.00	36	69	20	52	37	30	30	17	15	8.55
8	4.50	11	46	53	39	70	42	28	29	18	12	8.00
9	4.50	8.00	30	39	28	74	76	28	26	18	12	8.00
10	4.50	8.00	22	36	23	88	84	28	26	22	12	8.00
11	4.50	8.00	24	31	24	96	69	27	25	18	12	8.00
12	4.50	7.50	22	27	27	109	61	27	24	17	12	8.00
13	4.50	7.00	21	20	41	122	57	27	24	17	12	8.00
14	4.50	5.00	26	20	51	127	46	26	23	16	11	8.00
15	4.50	8.00	23	20	96	93	115	26	22	16	11	8.00
16	4.50	9.65	20	22	132	71	238	25	21	15	11	8.00
17	4.50	5.50	20	29	102	69	146	25	21	14	11	8.00
18	4.50	5.00	18	29	83	67	96	24	20	14	11	8.00
19	5.00	6.50	19	27	65	65	79	25	20	14	11	7.50
20	5.50	9.10	17	25	186	63	77	26	20	14	10	7.50
21	5.50	16	21	22	571	57	94	39	20	13	10	7.50
22	5.50	23	27	13	224	58	80	34	19	13	10	7.50
23	5.00	34	26	16	198	52	70	29	19	13	9.65	7.00
24	5.00	46	20	20	139	57	58	26	18	13	9.10	7.00
25	4.50	96	18	16	132	59	51	26	18	13	9.10	7.00
26	4.50	53	18	15	97	55	47	26	18	13	9.10	7.00
27	4.00	49	16	14	77	55	55	27	18	13	9.10	7.00
28	3.50	33	16	13	71	65	49	26	18	13	8.55	6.50
29	3.00	23	13	14	81	83	44	27	17	13	8.55	6.50
30	5.50	20	20	13	93	84	41	27	17	13	8.55	9.65
31		19		13	97		38		17	12		9.10
Total	139.50	543.75	665	850	2,789	2,035	2,228	856	846	475	307.60	244.60
Mean	4.65	17.5	22.2	27.4	90	67.8	72.2	28.5	27.3	15.2	11.0	7.89
Max.	5.50	96	46	104	571	127	238	39	102	22	13	9.65
Min.	3.00	4.50	13	13	13	37	37	24	17	12	8.55	6.50
Runoff - mcm.	12.053	46.980	57.456	73.440	240.970	175.824	193.363	73.958	73.094	40.867	26.577	21.133

WATER YEAR 1960 : Max. 571 Min. 3.00 Mean 32.8 Annual Runoff 1,035.716 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	15.00	265.45	626				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Chaem Creek at Mae Chaem Bridge, Chiang Mai (P.14A)

Location: Lat 18° - 12' - 02" N, Long 98° - 37' - 01" E, on right bank at upstream side of bridge on highway Hot - Chiang Mai, Amphoe Hot, Chiang Mai.

Drainage Area: 3,909 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +262.70 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.11

Location: Infront of camp office of station P.14A
Elevation: +267.062 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60

Rated by float: -

Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

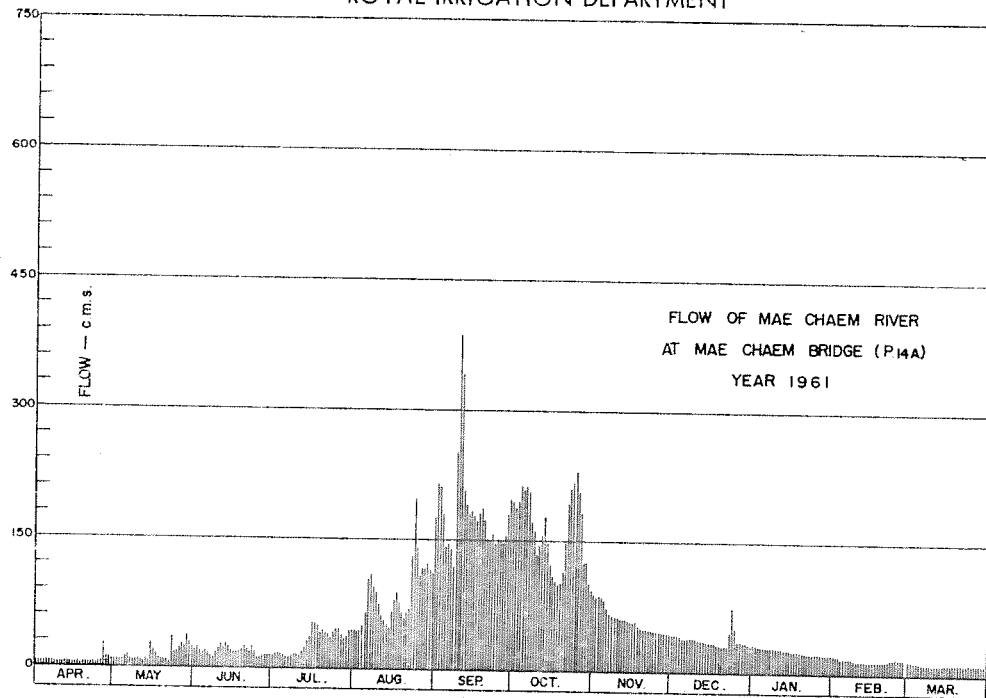
Overbank Flow Conditions: No overbank flow.

General Description: Gage height record good. discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1958 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	262.89	262.83	263.04	262.95	263.29	264.12	264.21	263.63	263.29	263.18	263.05	262.99
2	.80	.85	.09	.98	.29	.31	.18	.62	.29	.18	.04	.98
3	.80	.84	.03	263.00	.30	.30	.22	.63	.26	.16	.04	.97
4	.79	.85	.00	262.97	.34	.14	.30	.62	.28	.16	.02	.95
5	.79	.91	.03	.95	.46	263.95	.28	.60	.25	.15	.01	.95
6	262.78	262.95	262.99	262.94	263.73	263.96	264.30	263.50	263.25	263.15	263.01	262.93
7	.78	.86	.96	.92	.76	.93	.27	.48	.25	.14	.00	.93
8	.77	.85	.92	.97	.68	.83	.10	.45	.25	.14	.00	.93
9	.77	.84	263.00	.98	.63	264.47	.05	.45	.24	.14	262.99	.93
10	.77	.87	.08	.98	.55	265.00	263.91	.44	.24	.13	.98	.92
11	262.76	262.84	263.12	262.99	263.43	264.84	263.97	263.43	263.23	263.13	262.98	262.91
12	.76	.81	.09	263.04	.38	.27	264.02	.43	.22	.13	.97	.91
13	.77	.87	.13	.09	.36	.19	.13	.43	.20	.12	.97	.91
14	.75	.82	.09	.16	.33	.14	263.98	.41	.20	.12	.96	.91
15	.75	263.12	.04	.22	.48	.16	.85	.40	.20	.11	.96	.92
16	262.75	263.05	263.01	263.37	263.58	264.13	263.76	263.40	263.20	263.10	262.96	262.92
17	.77	262.98	.02	.37	.63	.11	.74	.40	.19	.10	.97	.92
18	.76	.88	.02	.34	.58	.15	.71	.36	.17	.09	.97	.93
19	.77	.86	.05	.27	.47	.17	.72	.34	.16	.09	.97	.93
20	.77	.87	.08	.29	.44	.11	.80	.33	.16	.08	.98	.93
21	262.76	262.82	263.06	263.26	263.47	264.00	263.98	263.33	263.16	263.08	262.98	262.94
22	.76	.80	.01	.24	.51	263.98	264.20	.33	.16	.08	.99	.94
23	.75	263.21	.09	.22	.89	264.02	.28	.32	.31	.07	263.00	.94
24	.74	.82	.03	.27	264.22	263.96	.32	.32	.34	.07	.01	.94
25	.78	.02	262.91	.31	263.94	264.00	.38	.32	.34	.06	.01	.93
26	262.83	263.08	262.92	263.31	263.76	263.99	264.27	263.31	263.22	263.06	263.01	262.93
27	263.11	.11	.96	.26	.81	.98	.15	.31	.20	.06	.00	.92
28	262.88	.09	.95	.19	.81	264.02	263.86	.30	.20	.06	262.99	.92
29	.90	.22	.96	.23	.84	.15	.86	.30	.20	.06	.92	.92
30	.86	.15	.97	.29	.80	.22	.77	.30	.17	.05	.91	.91
31		.08		.29	.78		.66		.17	.05	.90	.90
Mean	262.79	262.95	263.02	263.15	263.60	264.15	264.04	263.42	263.23	263.11	262.99	262.93
Max.	263.11	263.22	263.13	263.37	264.22	265.00	264.38	263.63	263.54	263.18	263.05	262.99
Min.	262.74	262.80	262.91	262.92	263.29	263.85	263.71	263.30	263.16	263.05	262.96	262.90

WATER YEAR 1961 : Max. 265.00 m. Min. 262.74 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.50	7.00	20	14	43	175	194	87	43	32	21	16
2	5.50	8.00	24	15	43	214	188	85	43	32	20	15
3	5.50	7.50	19	17	44	212	196	87	42	30	20	15
4	5.17	8.00	17	15	49	179	212	85	42	30	18	14
5	5.17	11	19	14	64	142	208	82	39	29	17	14
6	4.85	14	16	13	103	144	212	69	39	29	17	12
7	4.85	8.50	14	12	108	138	206	66	39	29	17	12
8	4.52	8.00	12	15	95	120	171	64	39	29	17	12
9	4.52	7.50	17	15	87	250	161	62	38	29	16	12
10	4.52	9.00	23	15	76	384	134	61	38	28	15	12
11	4.20	7.50	27	16	60	341	145	60	37	28	15	11
12	4.20	6.00	24	20	34	206	155	60	36	28	15	11
13	4.52	9.00	28	24	51	190	177	60	34	27	15	11
14	3.87	6.50	24	30	48	179	147	57	34	27	14	11
15	3.87	27	20	36	66	183	123	56	34	26	14	12
16	3.87	21	17	52	80	177	108	56	34	25	14	12
17	4.52	15	18	52	87	173	104	56	33	25	15	12
18	4.20	9.50	18	49	80	181	99	51	31	24	15	12
19	4.52	8.50	21	41	65	186	101	49	30	24	15	12
20	4.52	9.00	23	43	61	173	114	48	30	23	15	12
21	4.20	6.50	22	40	65	151	147	48	30	23	15	13
22	4.20	5.50	17	38	70	147	192	48	30	23	15	13
23	3.87	35	24	36	130	155	208	47	45	22	17	13
24	3.55	18	19	41	196	144	216	47	74	22	17	13
25	4.85	18	11	45	140	151	229	47	49	22	17	12
26	7.00	23	12	45	108	149	206	45	36	22	17	12
27	26	26	14	40	116	147	181	45	34	22	17	12
28	9.50	24	14	33	116	155	125	44	34	22	16	12
29	10	36	14	37	122	181	125	44	34	22	16	12
30	8.50	29	15	45	114	196	109	44	31	21	11	11
31		23		45	111		92		31	21		10
Total	174.06	451.50	563	949	2,652	5,523	4,985	1,760	1,163	796	457	385
Mean	5.80	14.6	18.8	30.6	85.5	184	161	58.7	37.5	25.7	16.3	12.3
Max.	25	36	28	52	196	384	229	87	74	32	21	16
Min.	3.55	5.50	11	12	43	120	92	44	30	21	14	10
Runoff - mcm.	15.059	39.010	48.643	81.994	229.133	477.187	430.704	152.064	100.483	68.774	39.485	33.091

WATER YEAR 1961 : Max. 384 Min. 3.55 Mean 54.4 Annual Runoff 1,715.607 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	09.00	265.05	384				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Chaem Creek at Mae Chaem Bridge, Chiang Mai (P.14A)

Location: Lat 18° - 12' - 02" N, Long 98° - 37' - 01" E, on right bank at upstream side of bridge on highway Hot - Chiang Mai, Amphoe Hot, Chiang Mai.

Drainage Area: 3,909 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +262.70 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.11

Location: Infront of camp office of station P.14A

Elevation: +267.062 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60

Rated by Float: -

Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

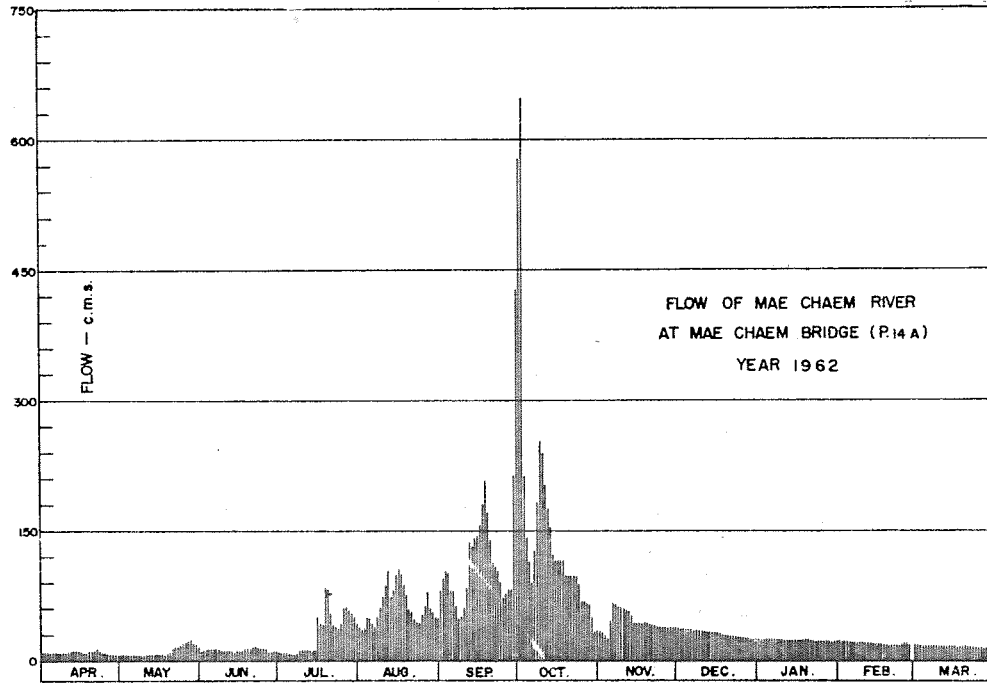
Overbank Flow Conditions: No overbank flow.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1958 - 60. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	262.90	262.84	262.94	262.90	263.24	263.59	265.64	263.20	263.23	263.10	263.08	263.03
2	.90	.84	.94	.89	.23	.69	.85	.18	.23	.10	.08	.02
3	.90	.84	.95	.88	.23	.74	264.30	.15	.23	.10	.08	.02
4	.90	.84	.95	.88	.23	.72	263.97	.10	.22	.10	.08	.02
5	.89	.84	.96	.87	.34	.59	.80	.32	.22	.10	.07	.02
6	262.89	262.83	262.96	262.86	263.29	263.59	263.65	263.48	263.21	263.10	263.07	263.02
7	.89	.83	.95	.86	.26	.46	.87	.46	.21	.10	.07	.02
8	.88	.83	.94	.88	.36	.34	264.16	.45	.21	.10	.07	.02
9	.88	.83	.94	.93	.44	.37	.48	.45	.20	.10	.07	.01
10	.89	.83	.93	.94	.55	.45	.42	.43	.20	.10	.07	.01
11	262.91	262.84	262.93	262.94	263.63	263.62	264.25	263.42	263.20	263.09	263.06	263.01
12	.92	.84	.93	.94	.74	.92	.13	.40	.19	.09	.05	.01
13	.92	.84	.91	.93	.54	.90	.01	.36	.19	.09	.05	.01
14	.92	.84	.90	.93	.60	.95	263.84	.30	.18	.09	.04	.01
15	.91	.84	.92	.96	.71	.97	.81	.29	.18	.09	.04	.00
16	262.90	262.85	262.93	263.36	263.75	264.03	263.81	263.29	263.18	263.09	263.04	263.00
17	.89	.85	.94	.29	.71	.15	.81	.30	.17	.09	.04	.00
18	.89	.84	.95	.28	.65	.28	.81	.30	.16	.09	.03	.00
19	.92	.92	.97	.61	.55	.10	.70	.29	.15	.09	.03	.00
20	.93	.94	.98	.60	.43	263.94	.70	.27	.14	.09	.03	.00
21	262.94	262.98	262.99	263.40	263.41	263.79	263.70	263.27	263.14	263.09	263.02	263.00
22	.95	.99	263.00	.28	.34	.77	.70	.26	.13	.08	.02	.00
23	.92	263.00	262.97	.25	.31	.74	.69	.26	.13	.08	.02	262.99
24	.90	.03	.97	.23	.31	.65	.65	.25	.12	.08	.03	.99
25	.88	.05	.95	.31	.38	.55	.50	.25	.12	.08	.03	.99
26	262.86	263.06	262.95	263.44	263.48	263.56	263.50	263.25	263.12	263.08	263.04	262.99
27	.86	.08	.91	.45	.58	.60	.48	.24	.11	.08	.04	.99
28	.85	.09	.90	.41	.44	.60	.47	.24	.11	.08	.03	.99
29	.84	.05	.91	.39	.40	264.31	.34	.24	.11	.08	.03	.99
30	.83	.02	.92	.36	.35	263.15	.20	.24	.10	.08	.03	.99
31		262.98		.29	.34		.20		.10	.08		.99
Mean	262.89	262.91	262.94	263.15	263.45	263.80	263.92	263.30	263.17	263.09	263.05	263.00
Max.	262.95	263.09	263.00	263.61	263.75	265.15	265.85	263.48	263.23	263.10	263.08	263.03
Min.	262.83	262.83	262.90	262.86	263.23	263.34	263.20	263.10	263.10	263.08	263.02	262.99

WATER YEAR 1962 : Max. 265.85 m. Min. 262.83 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	7.50	13	10	38	81	576	34	37	25	23	19
2	10	7.50	13	10	37	96	647	32	37	25	23	18
3	10	7.50	14	9.50	37	104	212	29	37	25	23	18
4	10	7.50	14	9.50	50	101	145	25	36	25	23	18
5	10	7.50	14	9.00	49	81	114	47	36	25	22	18
6	10	7.00	14	8.50	43	81	90	66	35	25	22	18
7	10	7.00	14	8.50	40	64	127	64	35	25	22	18
8	9.50	7.00	13	9.50	51	49	183	62	35	25	22	18
9	9.50	7.00	13	12	61	52	252	62	34	25	22	18
10	10	7.00	12	13	76	62	238	60	34	25	22	17
11	11	7.50	12	13	87	85	202	58	34	24	22	17
12	12	7.50	12	13	104	136	177	56	33	24	21	17
13	12	7.50	11	12	74	132	153	51	33	24	21	17
14	12	7.50	10	12	82	142	122	44	32	24	20	17
15	11	7.50	12	14	99	145	116	43	32	24	20	17
16	10	8.00	12	51	106	157	116	43	32	24	20	17
17	10	8.00	13	43	99	181	116	44	31	24	20	17
18	10	7.50	14	42	90	208	116	44	30	24	19	17
19	12	12	15	84	76	171	98	43	29	24	19	17
20	12	13	15	82	60	140	98	41	29	24	19	17
21	13	15	16	56	57	113	98	41	29	24	18	17
22	14	16	17	42	49	109	98	40	28	23	18	17
23	12	17	15	39	45	104	96	40	28	23	18	17
24	10	19	15	37	45	90	90	39	27	23	19	16
25	9.50	21	14	45	54	73	69	39	27	23	19	16
26	8.50	22	14	61	66	77	69	39	27	23	20	16
27	8.50	23	11	62	80	82	66	38	26	23	20	16
28	8.00	24	10	57	61	82	65	38	26	23	19	16
29	7.50	21	11	55	56	214	49	38	26	23	16	16
30	7.00	18	12	51	50	427	34	38	25	23	16	16
31		15		43	49		34		25	23		16
Total	309.00	369.50	395	1,013.50	1,971	3,659	4,666	1,338	965	744	576	527
Mean	10.3	11.9	13.2	32.7	63.6	121	150	44.6	31.1	24	20.6	17
Max.	14	24	17	84	106	427	647	66	37	25	23	19
Min.	7.00	7.00	10	8.50	37	49	34	25	25	23	18	16
Runoff - mcm.	26.698	31.925	34.128	87.566	170.294	314.410	403.142	115.603	85.376	64.282	49.766	45.533

WATER YEAR 1962 : Max. 647 Min. 7.00 Mean 45.2 Annual Runoff 1,426.723 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	09.00	265.85	647				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Ping River at Ban Tha Sala, Chiang Mai (P.19A)

Location: Lat 18°-25'-29" N, Long 98°-42'-11" E, on left bank 300 meters downstream from the confluence with Li Creek, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 14,023 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +271.35 m.(M.S.L.)

Bench Mark: B.M. - A.Z.1

Location: Infront of the camp of station P.19A
Elevation: +283.561 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic means of 5 readings.

Period of Available Gage Records: 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: Rather unstable, shifting adjustment is included for flow computation.

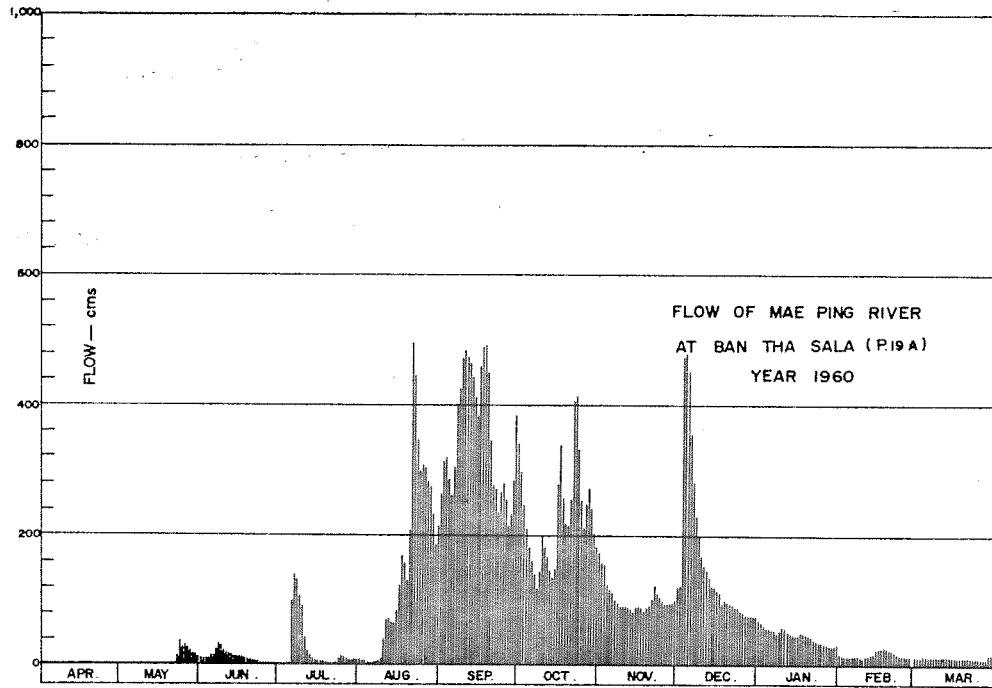
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	271.99	271.72	272.41	272.13	272.35	274.01	274.23	273.45	273.09	272.66	272.29	272.25
2	.98	.70	.38	.15	.34	.25	.10	.36	.66	.64	.27	.24
3	.97	.68	.39	.15	.32	.27	273.84	.28	274.80	.60	.26	.26
4	.97	.68	.40	.18	.26	.11	.64	.21	.83	.56	.25	.27
5	.96	.67	.46	.21	.23	273.92	.47	.15	.72	.56	.24	.26
6	271.96	271.70	272.47	272.92	272.22	274.15	273.34	273.12	274.38	272.54	272.27	272.24
7	.96	.73	.57	273.20	.25	.57	.20	.08	.03	.50	.26	.24
8	.95	.67	.63	.14	.32	.88	.08	272.99	273.77	.48	.28	.23
9	.95	.67	.61	272.97	.40	.87	.27	.95	.59	.51	.22	.24
10	.95	.69	.55	.86	.46	.87	.53	.96	.41	.56	.20	.24
11	271.94	271.69	272.52	272.69	272.65	274.83	273.42	272.95	273.32	272.54	272.25	272.25
12	.93	.71	.50	.55	.66	.73	.33	.94	.22	.51	.26	.24
13	.93	.94	.45	.45	.61	.64	.19	.93	.14	.50	.29	.23
14	.91	.74	.44	.37	.60	.59	.12	.90	.10	.47	.36	.23
15	.90	.75	.43	.33	.77	.47	.33	.91	.04	.44	.41	.23
16	271.83	271.81	272.43	272.29	273.07	274.78	273.97	272.91	273.00	272.47	272.42	272.22
17	.82	.81	.42	.27	.36	275.04	274.28	.90	272.97	.49	.43	.22
18	.80	.80	.40	.24	.30	.03	273.88	.86	.92	.48	.46	.22
19	.80	.82	.35	.22	.15	274.81	.67	.90	.90	.46	.44	.22
20	.78	.88	.33	.19	.59	.37	.62	.93	.86	.44	.41	.22
21	271.74	272.09	272.31	272.20	274.90	273.92	273.84	273.02	272.85	272.43	272.39	272.21
22	.74	.18	.31	.21	.80	.89	274.54	.11	.83	.36	.36	.20
23	.75	.49	.27	.22	.41	.71	.57	.03	.80	.35	.31	.20
24	.70	.65	.23	.34	.14	.87	.22	272.78	.80	.34	.27	.20
25	.74	.63	.20	.42	.19	.94	273.93	.93	.76	.32	.25	.19
26	271.72	272.62	272.19	272.44	274.20	273.81	273.69	272.90	272.94	272.31	272.25	272.18
27	.72	.60	.17	.37	.09	.65	.84	.90	.70	.30	.26	.15
28	.69	.55	.16	.33	.00	.54	.96	.91	.69	.28	.27	.14
29	.69	.50	.15	.31	273.79	.86	.81	.92	.70	.27	.30	.30
30	.68	.48	.14	.35	.62	274.33	.64	.95	.69	.30	.31	.31
31		.42		.34	.64		.50		.68	.31		.29
Mean	271.85	272.00	272.38	272.42	273.18	274.32	273.71	273.01	273.26	272.45	272.31	272.23
Max.	271.99	272.65	272.63	273.20	274.90	275.04	274.57	273.45	274.83	272.66	272.46	272.31
Min.	271.68	271.67	272.14	272.13	272.22	273.54	273.08	272.78	272.68	272.27	272.25	272.14

WATER YEAR 1960 : Max. 275.03 m. Min. 272.14 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.04	0.05	11	2.40	8.25	266	341	172	120	68	16	14
2	0.98	0.03	9.60	2.60	7.80	315	298	157	222	64	15	13
3	0.92	0.01	10	2.60	6.90	319	246	154	472	59	14	13
4	0.92	0.01	10	2.90	4.84	286	209	124	479	56	14	15
5	0.86	0.00	15	3.39	3.97	260	181	116	452	56	13	13
6	0.86	0.03	15	99	3.68	306	160	111	354	53	15	13
7	0.86	0.06	24	139	4.55	401	139	100	280	53	14	13
8	0.80	0.00	32	130	6.90	427	118	94	229	46	15	13
9	0.80	0.00	29	106	10	474	146	89	197	54	12	13
10	0.80	0.02	22	91	46	484	200	90	167	59	11	13
11	0.74	0.02	19	43	70	474	181	89	152	55	14	14
12	0.68	0.04	17	22	71	464	167	88	145	50	14	13
13	0.56	0.07	15	14	65	442	145	86	133	48	16	13
14	0.56	0.07	13	9.15	64	411	134	83	120	46	21	13
15	0.50	0.08	13	7.35	84	382	167	89	118	44	24	13
16	0.24	0.17	13	5.71	124	457	278	89	113	47	25	12
17	0.20	0.17	12	5.13	168	489	339	88	109	49	26	12
18	0.13	0.13	10	4.26	159	492	256	83	94	48	28	12
19	0.13	0.20	9.60	3.68	130	449	217	88	100	46	27	12
20	0.11	0.43	7.35	3.00	208	345	213	91	95	44	24	12
21	0.07	2.00	6.45	3.10	494	276	254	103	94	43	23	12
22	0.04	2.90	6.45	3.39	444	270	406	123	91	37	21	11
23	0.08	17	5.13	3.68	345	235	413	111	88	36	17	11
24	0.03	36	3.97	9.80	298	266	332	104	88	35	15	11
25	0.07	27	3.10	15	308	280	254	97	83	33	14	11
26	0.05	31	3.00	13	304	254	209	94	80	32	14	10
27	0.05	27	2.80	9.15	282	213	248	94	76	31	14	9.10
28	0.02	22	2.70	7.35	274	233	272	95	74	29	15	8.68
29	0.02	17	2.60	6.45	233	296	235	96	76	29		16
30	0.01	16	2.50	8.25	184	364	204	100	74	31		17
31		12		7.80	213		180		73	32		16
Total	13.25	211.49	345.25	781.14	4,624.89	10,680	7,142	3,098	5,048	1,413	491	391.78
Mean	0.44	6.82	11.5	25.2	149	356	230	103	163	45.5	17.5	12.6
Max.	1.04	36	32	139	494	492	413	172	479	68	28	17
Min.	0.01	0.00	2.50	2.40	3.68	213	118	83	73	29	11	8.68
Runoff - mcm.	1.145	18.273	29.830	67.490	399.590	922.752	617.069	267.667	436.147	122.085	42.422	33.850

WATER YEAR 1960 : Max. 494 Min. 0.00 Mean 93.8 Annual Runoff 2,958.319 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	18.00	275.02	524				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
PING RIVER BASIN

Mae Ping River at Ban Tha Sala, Chiang Mai (P.19A)

Location: Lat 18° - 25' - 29" N, Long 98° - 42' - 11" E, on left bank 300 meters downstream from the confluence with Li Creek, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 14,023 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +271.35 m.(M.S.L.)

Bench Mark: B.M. - A.Z.1

Location: Infront of the camp of station P.19A
Elevation: +283.561 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic means of 5 readings.

Period of Available Gage Records: 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

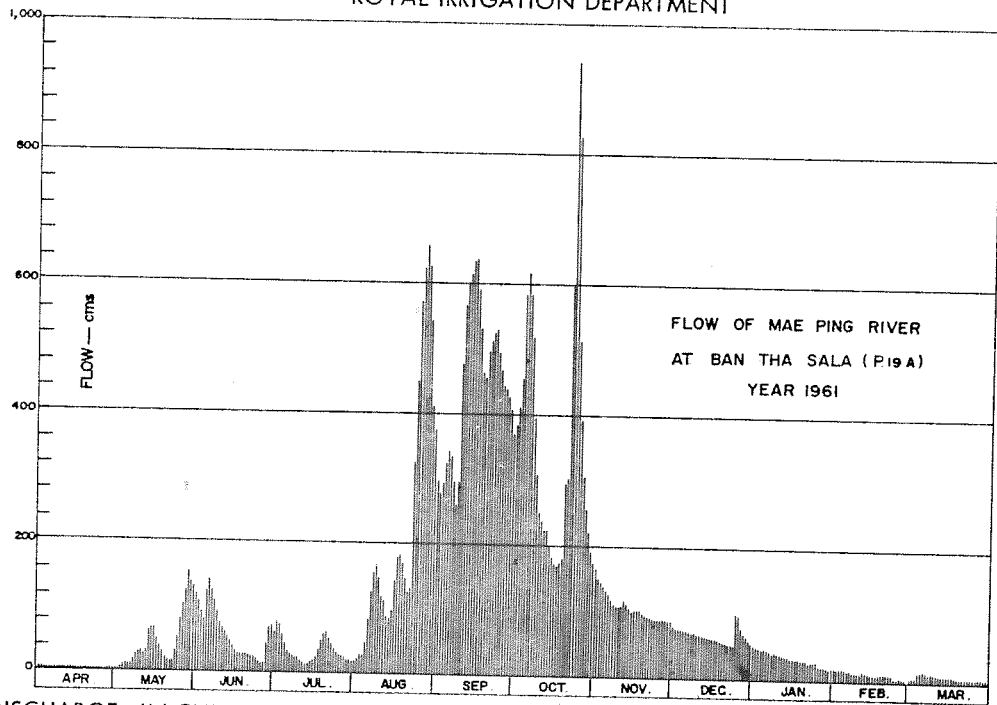
General Description: Records good. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	272.28	272.28	273.44	272.94	272.51	274.53	274.86	273.88	273.31	273.07	272.68	272.36
2	.31	.29	.34	273.08	.56	.45	.95	.79	.27	.05	.66	.40
3	.30	.37	.21	.06	.63	.51	275.10	.75	.27	.04	.68	.44
4	.29	.41	.11	272.93	.69	.64	.54	.72	.26	.02	.68	.60
5	.30	.43	.47	.78	.82	.71	.60	.67	.25	.03	.66	.59
6	272.29	272.41	273.59	272.66	273.13	274.68	275.54	273.64	273.25	273.01	272.61	272.63
7	.29	.43	.47	.61	.48	.53	.30	.59	.24	272.98	.63	.62
8	.28	.51	.34	.60	.69	.35	274.90	.54	.22	.96	.58	.59
9	.29	.59	.19	.56	.76	.52	.57	.52	.23	.98	.56	.60
10	.29	.65	.06	.56	.62	275.17	.31	.52	.20	.96	.56	.58
11	272.28	272.65	273.00	272.50	273.42	275.45	274.26	273.52	273.19	272.94	272.56	272.56
12	.24	.59	272.94	.46	.24	.55	.18	.58	.18	.93	.62	.54
13	.23	.67	.88	.44	.17	.59	.19	.53	.18	.91	.58	.53
14	.22	.97	.80	.45	.15	.65	.07	.50	.16	.90	.55	.53
15	.20	273.00	.74	.49	.26	.66	273.96	.46	.16	.88	.54	.53
16	272.15	273.00	272.67	272.53	273.60	275.52	273.91	273.47	273.15	272.87	272.51	272.50
17	.19	272.85	.61	.61	.84	.34	.86	.48	.14	.86	.50	.51
18	.18	.73	.61	.74	.87	.12	.92	.48	.13	.86	.54	.48
19	.16	.64	.61	.84	.79	.10	.96	.45	.12	.84	.56	.47
20	.17	.55	.61	.94	.63	.23	274.52	.42	.11	.84	.56	.45
21	272.15	272.50	272.59	272.96	273.48	275.28	274.55	273.41	273.09	272.82	272.53	272.44
22	.12	.40	.57	.86	.52	.32	275.41	.40	.08	.79	.54	.42
23	.09	.50	.58	.78	274.64	.33	276.50	.38	.08	.80	.50	.40
24	.04	.67	.54	.70	275.08	.22	.21	.38	.23	.80	.37	.39
25	.03	.90	.48	.64	.34	.13	275.28	.38	.46	.82	.34	.36
26	272.02	273.12	272.45	272.62	275.62	275.06	274.89	273.37	273.43	272.71	272.39	272.37
27	.24	.32	.47	.60	.72	.04	.57	.38	.29	.70	.37	.39
28	.25	.49	.78	.57	.63	.00	.34	.38	.22	.70	.34	.39
29	.27	.69	273.02	.53	.37	274.94	.17	.36	.16	.69	.38	.38
30	.26	.48	.04	.53	.06	.81	.02	.33	.13	.67	.39	.39
31		.51		.49	274.72		273.92		.09	.68		.35
Mean	272.22	272.76	272.91	272.68	273.87	275.05	274.69	273.51	273.51	272.87	272.54	272.48
Max.	272.31	273.69	273.59	273.08	275.72	275.66	276.50	273.88	273.46	273.07	272.68	272.63
Min.	272.02	272.28	272.45	272.44	272.51	274.35	273.86	273.33	273.08	272.67	272.34	272.35

WATER YEAR 1961 : Max. 276.50 m. Min. 272.02 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.30	2.30	120	60	17	297	383	165	79	50	18	3.30
2	2.60	2.40	107	76	22	279	410	150	74	48	13	4.50
3	2.50	5.60	91	73	28	295	455	144	74	47	18	5.70
4	2.40	8.80	79	59	25	324	583	139	73	45	18	13
5	2.50	10	124	43	47	343	616	131	72	46	17	15
6	2.40	8.80	141	31	82	335	583	126	72	44	14	15
7	2.40	10	124	26	125	297	518	118	71	41	15	14
8	2.30	17	107	25	155	257	395	111	68	39	12	12
9	2.40	25	89	22	166	295	307	108	70	41	11	13
10	2.40	30	73	22	145	477	249	108	66	39	11	12
11	2.30	30	66	16	117	567	238	108	65	37	11	11
12	1.90	25	60	13	111	600	222	117	64	36	14	9.60
13	1.80	32	53	11	86	613	222	109	64	35	12	9.20
14	1.70	63	45	12	84	633	200	105	61	34	10	9.20
15	1.50	66	39	16	97	636	180	99	61	32	9.60	9.20
16	1.40	66	32	19	142	590	171	101	60	32	8.40	8.00
17	1.40	50	26	26	178	531	167	102	59	31	8.00	8.40
18	1.30	38	26	39	183	462	173	102	58	31	9.60	7.20
19	1.10	29	26	49	170	455	180	98	56	29	11	6.80
20	1.20	21	26	60	146	496	295	94	55	29	11	6.00
21	1.00	16	25	62	125	512	302	92	53	28	9.20	5.70
22	0.80	14	23	52	131	524	597	91	52	25	9.60	5.10
23	0.70	16	24	43	324	528	940	88	52	26	8.00	4.50
24	0.40	32	20	35	449	493	827	88	70	26	3.60	4.20
25	0.40	55	15	29	570	465	512	88	99	28	2.90	3.30
26	0.30	80	12	27	623	443	392	87	95	20	4.20	3.60
27	1.90	104	14	25	657	437	307	88	77	19	3.60	4.20
28	2.30	127	43	23	626	425	255	88	66	19	2.90	4.20
29	2.20	155	68	19	541	407	220	85	61	18	3.90	3.90
30	2.10	139	71	19	410	369	191	82	58	17	4.20	4.20
31		129		16	377		173		53	18	3.00	3.00
Total	51.90	1,406.90	1,769	1,048	6,959	13,385	11,263	3,212	2,060	1,010	295.60	238
Mean	1.73	45.3	59.0	33.8	224	447	363	107	66.4	32.6	10.5	7.68
Max.	2.60	155	141	76	657	636	940	165	99	50	18	15
Min.	0.30	2.30	12	11	17	257	167	82	52	17	2.90	3.00
Runoff - mcm.	4.484	121.566	152.842	90.547	601.258	1,156.464	973.123	277.517	177.984	87.350	25.540	20.563

WATER YEAR 1961 : Max. 940 Min. 0.30 Mean 117 Annual Runoff 3,689.142 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 23	18.00	276.62	988				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Ping River at Ban Tha Sala, Chiang Mai (P.19A)

Location: Lat 18°-25' - 29" N, Long 98°-42' - 11" E, on left bank 300 meters downstream from the confluence with Li Creek, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 14,023 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +271.35 m.(M.S.L.)

Bench Mark: B.M. - A.2.1

Location: Infront of the camp of station P.19A
Elevation: +283.561 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic means of 5 readings.

Period of Available Gage Records: 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

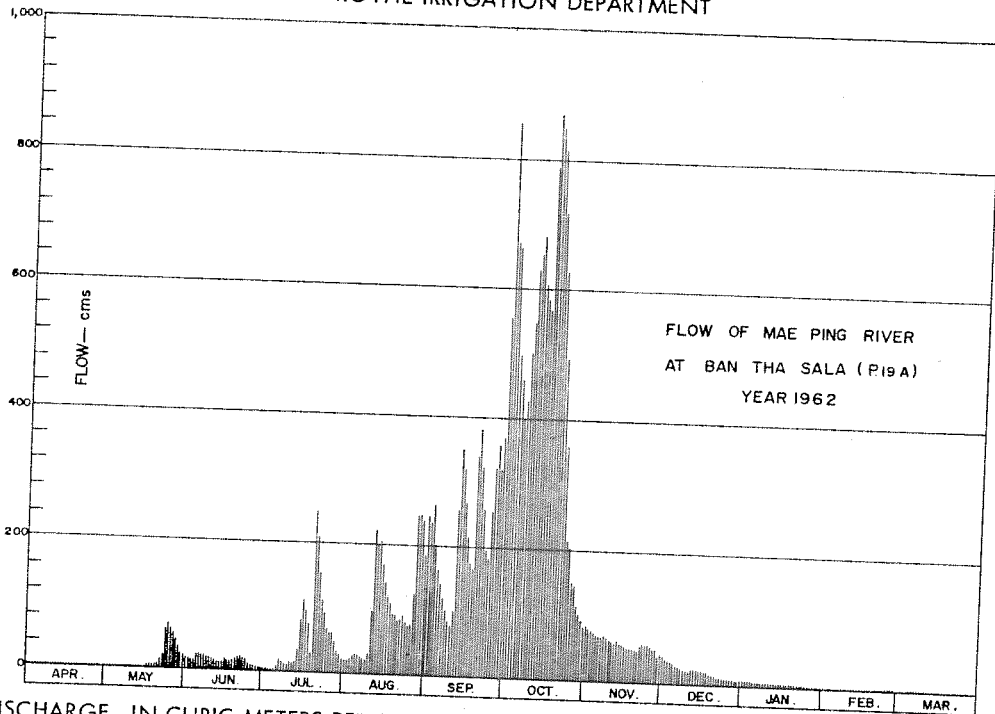
General Description: Records good. The data presented is made by discharge measurements during 1962. Upstream state diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	272.33	272.22	272.60	272.26	272.58	274.14	275.81	273.40	273.03	272.61	272.42	272.41
2	.31	.21	.57	.26	.53	.46	.56	.38	.02	.61	.41	.41
3	.28	.19	.55	.23	.55	.15	.25	.32	.02	.61	.40	.41
4	.28	.17	.56	.21	.64	273.85	274.96	.27	.02	.60	.39	.43
5	.28	.15	.65	.21	.69	.64	.87	.24	.01	.59	.39	.43
6	272.28	272.13	272.68	272.36	272.69	273.52	274.70	273.23	273.00	272.59	272.38	272.42
7	.27	.16	.65	.60	.64	.44	.80	.23	.00	.58	.45	.44
8	.25	.16	.64	.56	.64	.29	.96	.23	272.98	.57	.46	.45
9	.24	.17	.63	.49	.63	.20	275.21	.21	.95	.56	.43	.44
10	.23	.18	.62	.46	.71	.14	.43	.20	.95	.55	.40	.43
11	272.23	272.18	272.59	272.51	273.35	273.28	275.44	273.17	272.93	272.54	272.38	272.42
12	.22	.17	.52	.48	274.09	274.11	.47	.15	.95	.54	.37	.41
13	.23	.17	.48	.48	273.99	.55	.36	.16	.98	.55	.37	.40
14	.23	.17	.47	.81	.96	.56	.21	.12	.96	.54	.36	.39
15	.22	.18	.48	273.50	.89	.18	.14	.10	.95	.55	.35	.39
16	272.22	272.23	272.54	273.44	273.70	273.96	275.67	273.10	272.92	272.54	272.34	272.37
17	.20	.45	.48	.32	.50	.75	.85	.09	.89	.54	.34	.35
18	.18	.50	.46	.17	.36	.71	.72	.08	.88	.55	.37	.35
19	.17	.52	.49	272.74	.23	274.42	.60	.11	.25	.54	.40	.34
20	.12	.54	.55	274.08	.22	.62	.48	.11	.85	.53	.40	.33
21	272.21	272.55	272.58	273.95	273.18	274.40	275.30	273.11	272.82	272.52	272.39	272.32
22	.16	.64	.62	.70	.20	.10	.02	.13	.78	.47	.39	.32
23	.22	.76	.58	.47	.24	273.87	274.60	.14	.78	.45	.39	.31
24	.26	273.10	.51	.21	.17	.80	.09	.11	.77	.44	.39	.31
25	.26	.15	.45	.08	.14	274.09	.03	.15	.73	.44	.40	.31
26	272.25	273.08	272.40	273.04	273.16	274.32	273.86	273.14	272.70	272.44	272.40	272.30
27	.24	.01	.38	.04	.57	.39	.74	.10	.68	.43	.40	.30
28	.23	272.94	.33	272.95	274.11	.37	.63	.09	.67	.41	.40	.29
29	.22	.87	.31	.84	.12	.50	.53	.02	.65	.41	.40	.28
30	.24	.75	.27	.76	.07	275.21	.45	.03	.62	.41	.40	.28
31		.68		.70	273.83		.38		.62	.42		.27
Mean	272.23	272.46	272.52	272.87	273.27	274.03	274.87	273.16	272.87	272.52	272.39	272.36
Max.	272.33	273.15	272.68	274.08	274.12	275.21	275.85	273.40	273.03	272.61	272.46	272.45
Min.	272.12	272.13	272.27	272.21	272.53	273.14	273.38	273.02	272.62	272.41	272.34	272.27

WATER YEAR 1962 : Max. 275.85 m. Min. 272.16 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.00	0.70	17	3.50	21	246	853	84	40	7.80	2.60	2.60
2	1.50	0.70	16	4.10	21	235	669	79	37	7.80	2.60	2.60
3	1.20	0.50	15	3.20	22	264	661	77	34	8.20	2.30	2.30
4	1.20	0.50	15	2.90	28	201	497	74	32	7.40	2.30	2.60
5	1.20	0.40	22	2.90	30	163	458	71	29	6.60	2.00	2.60
6	1.20	0.20	24	9.50	29	142	400	68	26	6.60	1.80	2.30
7	1.10	0.50	21	19	26	120	446	68	25	5.40	3.20	2.90
8	0.90	0.60	21	16	23	105	501	69	23	5.00	3.80	3.20
9	0.80	0.50	19	12	23	88	550	67	21	4.70	2.90	2.90
10	0.70	0.60	19	11	32	77	629	63	21	5.00	2.00	2.60
11	0.70	0.60	17	16	98	102	653	61	19	5.00	1.80	2.60
12	0.50	0.50	14	13	221	256	681	58	23	5.40	1.60	2.60
13	0.60	0.50	13	16	199	349	605	63	23	5.00	1.60	2.60
14	0.70	0.50	12	36	205	319	582	58	22	4.70	1.50	2.30
15	0.70	0.40	13	82	167	267	566	56	21	5.00	1.40	2.30
16	0.80	0.60	18	112	142	214	788	55	21	5.40	1.30	2.00
17	0.70	4.10	15	95	123	173	868	52	19	5.00	1.30	1.90
18	0.50	5.80	14	75	111	165	848	50	19	5.00	1.70	1.90
19	0.40	4.60	16	29	92	340	813	51	16	5.00	2.00	1.90
20	0.20	7.40	19	248	92	382	719	50	15	4.70	2.00	1.90
21	0.60	7.80	20	208	81	322	625	50	13	4.40	1.90	1.90
22	0.10	13	22	153	85	259	494	56	11	3.50	2.00	1.90
23	0.50	21	19	112	92	196	358	59	11	3.20	2.00	1.80
24	0.80	63	16	92	82	183	214	56	10	3.20	2.00	1.70
25	0.60	71	11	68	75	256	203	58	9.50	3.20	2.30	1.70
26	0.50	62	9.50	62	79	322	151	55	9.00	3.20	2.30	1.60
27	0.40	55	8.60	62	125	358	146	51	8.60	2.90	2.30	1.60
28	0.50	46	6.60	49	246	319	112	52	8.20	2.90	2.30	1.50
29	0.50	34	5.80	33	246	370	102	40	7.80	2.90	2.60	1.30
30	0.80	23	4.70	29	238	554	95	43	7.00	2.60	2.60	1.20
31		22		21	185		81		7.40	2.90		0.90
Total	22.90	448	463.20	1,695.10	3,239	7,245	15,368	1,794	588.50	149.60	58.80	65.70
Mean	0.76	14.4	15.4	54.6	104	247	496	59.8	18.9	4.82	2.10	2.12
Max.	2.00	71	24	248	246	554	868	64	40	8.20	3.80	3.20
Min.	0.10	0.20	4.70	2.90	21	77	81	40	7.00	2.60	1.30	0.90
Runoff - mcm.	1.978	38.707	40.020	146.457	279.850	625.968	1,327.795	155.002	50.846	12.925	5.080	5.676

WATER YEAR 1962 : Max. 868 Min. 0.10 Mean 85.8 Annual Runoff 2,690.306 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 17	06.00	275.88	883				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Rim Creek at Mae Rim Bridge, Chiang Mai (P.21)

Location: Lat 18°-55' - 29" N, Long 98°-56' - 34" E, on right bank 100 meters downstream from the bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.69 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.4

Location: Near the pond which belong to Mr. Bunsri Tongsuksakul.
Elevation: +321.928 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 - 60
Rated by Float: -
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

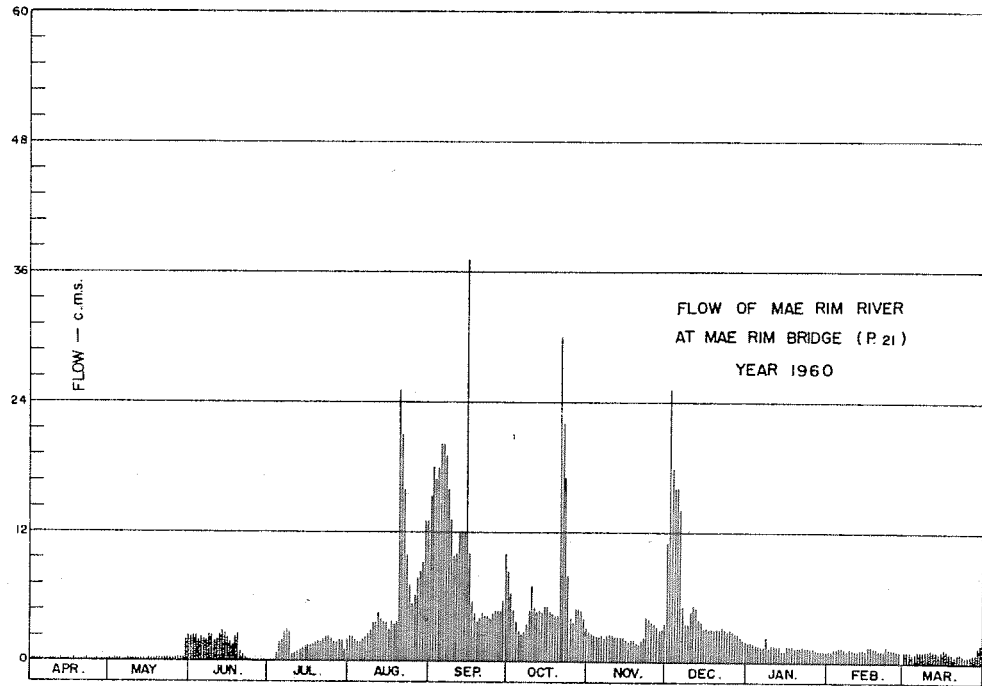
General Description: Records good. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.12	320.12	320.51	320.09	320.51	321.39	321.00	320.55	321.19	320.44	320.33	320.13
2	.12	.11	.52	.09	.49	.52	320.89	.54	.78	.45	.33	.31
3	.10	.13	.52	.10	.46	.47	.76	.52	.51	.43	.35	.31
4	.12	.12	.48	.26	.41	.51	.66	.51	.43	.42	.36	.25
5	.11	.12	.49	.43	.44	.57	.57	.80	.41	.40	.37	.28
6	320.09	320.11	320.47	320.48	320.48	321.59	320.53	320.52	321.33	320.39	320.38	320.31
7	.10	.10	.48	.56	.50	.54	.56	.50	320.79	.39	.36	.32
8	.10	.13	.53	.59	.54	.44	.64	.52	.64	.51	.33	.31
9	.12	.12	.52	.56	.58	.29	.75	.53	.64	.46	.36	.33
10	.12	.14	.46	.25	.66	.10	.86	.52	.75	.42	.34	.34
11	320.10	320.13	320.48	320.25	320.67	321.11	320.78	320.51	320.80	320.41	320.32	320.35
12	.12	.12	.53	.27	.73	.21	.76	.50	.78	.39	.32	.34
13	.12	.12	.57	.32	.69	.21	.75	.50	.69	.40	.34	.32
14	.10	.12	.55	.35	.67	.25	.75	.49	.66	.30	.35	.29
15	.12	.11	.51	.37	.66	322.15	.79	.46	.60	.30	.34	.32
16	320.11	320.12	320.44	320.39	320.62	321.12	320.79	320.45	320.61	320.41	320.39	320.38
17	.13	.14	.41	.39	.63	320.83	.74	.46	.59	.41	.39	.33
18	.11	.15	.49	.42	.65	.73	.73	.47	.60	.40	.38	.30
19	.09	.16	.52	.43	.68	.68	.72	.44	.59	.33	.35	.29
20	.12	.15	.28	.44	321.76	.70	.72	.42	.60	.38	.32	.24
21	320.10	320.14	320.21	320.45	321.63	320.74	321.93	320.47	320.59	320.37	320.32	320.26
22	.12	.15	.17	.47	.44	.72	.68	.50	.61	.39	.35	.29
23	.10	.15	.11	.51	.13	.71	.48	.72	.58	.37	.39	.25
24	.11	.15	.09	.51	320.93	.70	320.99	.70	.57	.38	.35	.22
25	.10	.13	.10	.47	.81	.73	.70	.66	.59	.36	.35	.24
26	320.12	320.16	320.09	320.45	320.88	320.77	320.66	320.64	320.57	320.35	320.34	320.24
27	.11	.16	.09	.44	.98	.77	.77	.61	.54	.32	.32	.26
28	.10	.19	.09	.47	321.03	.77	.77	.59	.53	.33	.30	.29
29	.10	.17	.09	.46	.07	.83	.76	.60	.51	.33		.39
30	.10	.48	.10	.34	.29	321.11	.69	.65	.47	.32		.43
31		.52		.46	.26		.60		.46	.31		.36
Mean	320.11	320.16	320.36	320.40	320.81	321.11	320.83	320.53	320.77	320.38	320.33	320.30
Max.	320.13	320.52	320.57	320.59	321.76	322.15	321.93	320.80	321.78	320.51	320.39	320.43
Min.	320.09	320.10	320.09	320.09	320.41	320.68	320.53	320.42	320.46	320.30	320.30	320.22

WATER YEAR 1960 : Max. 322.15 m. Min. 320.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.26	0.26	2.38	0.18	2.38	15	8.10	2.70	11	1.82	1.15	1.05
2	0.26	0.23	2.46	0.18	2.22	18	6.37	2.62	25	1.90	1.15	1.05
3	0.20	0.29	2.46	0.20	1.98	17	4.72	2.46	18	1.74	1.25	1.05
4	0.26	0.26	2.14	0.80	1.58	18	3.64	2.38	16	1.66	1.30	0.75
5	0.23	0.26	2.22	1.74	1.82	20	2.86	2.30	16	1.50	1.35	0.90
6	0.18	0.23	2.06	2.14	2.14	20	2.54	2.46	14	1.45	1.40	1.05
7	0.20	0.20	2.14	2.78	2.30	19	2.78	2.30	5.08	1.45	1.30	1.10
8	0.20	0.29	2.54	3.02	2.62	16	3.46	2.46	3.46	2.38	1.15	1.05
9	0.26	0.26	2.46	2.78	2.94	13	4.60	2.54	3.46	1.98	1.30	1.15
10	0.26	0.32	1.98	0.75	3.64	9.80	5.98	2.46	4.60	1.66	1.20	1.20
11	0.20	0.29	2.14	0.75	3.73	9.98	4.96	2.38	5.20	1.58	1.10	1.25
12	0.26	0.26	2.54	0.85	4.36	12	4.72	2.30	4.96	1.45	1.10	1.20
13	0.26	0.26	2.86	1.10	3.91	12	4.60	2.30	3.91	1.50	1.20	1.10
14	0.20	0.26	2.70	1.25	3.73	12	4.60	2.22	3.64	1.00	1.25	0.95
15	0.26	0.23	2.38	1.35	3.64	37	5.08	1.98	3.10	1.00	1.20	1.10
16	0.23	0.26	1.82	1.45	3.28	10	5.08	1.90	3.19	1.58	1.45	1.40
17	0.29	0.32	1.58	1.45	3.82	5.59	4.48	1.98	3.02	1.58	1.45	1.15
18	0.23	0.35	2.22	1.66	3.58	4.36	4.36	2.06	3.10	1.50	1.40	1.00
19	0.18	0.38	2.46	1.74	3.82	3.82	4.24	1.82	3.02	1.40	1.25	0.95
20	0.26	0.35	0.90	1.82	25	4.00	4.24	1.66	3.10	1.40	1.10	0.70
21	0.20	0.32	0.55	1.90	21	4.48	30	2.06	3.02	1.35	1.10	0.80
22	0.26	0.35	0.41	2.06	16	4.24	22	2.30	3.19	1.45	1.15	0.95
23	0.20	0.35	0.23	2.38	10	4.12	17	4.24	2.94	1.35	1.45	0.75
24	0.23	0.35	0.18	2.38	6.98	4.00	7.94	4.00	2.86	1.40	1.25	0.60
25	0.20	0.29	0.20	2.06	5.33	4.36	4.00	3.64	3.02	1.30	1.25	0.70
26	0.26	0.38	0.18	1.90	6.24	4.72	3.64	3.46	2.86	1.25	1.20	0.70
27	0.23	0.38	0.18	1.82	7.78	4.72	4.84	3.19	2.62	1.10	1.10	0.80
28	0.20	0.47	0.18	2.06	8.61	4.72	4.84	3.02	2.54	1.15	1.00	0.95
29	0.20	0.41	0.18	1.98	9.29	5.59	4.72	3.10	2.38	1.10		1.45
30	0.20	2.14	0.20	1.20	13	9.98	3.91	3.55	2.06	1.05		1.74
31		2.46		1.98	13		3.10		1.98	1.00		1.30
Total	6.86	9.46	46.93	49.71	199.72	327.48	197.40	77.84	182.31	45.18	34.55	31.89
Mean	0.20	0.30	1.57	1.61	6.45	10.9	6.37	2.60	5.87	1.45	1.21	1.03
Max.	0.29	2.46	2.86	3.02	25	37	30	4.24	25	2.38	1.45	1.74
Min.	0.18	0.20	0.18	0.18	1.58	3.82	2.54	1.66	1.98	1.00	1.00	0.60
Runoff - mcm.	0.593	0.817	4.055	4.295	17.256	28.294	17.055	6.725	15.725	3.903	2.985	2.755

WATER YEAR 1960 : Max. 37 Min. 0.18 Mean 3.31 Annual Runoff 104.486 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 15	15.00	322.29	42				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Rim Creek at Mae Rim Bridge, Chiang Mai (P.21)

Location: Lat 18°-55'-29" N, Long 98°-56'-34" E, on right bank 100 meters downstream from the bridge on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.69 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.O. No.4

Location: Near the pond which belong to Mr.Bunsri Tongsusakul
Elevation: +321.928 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 - 60
Rated by Float: -
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

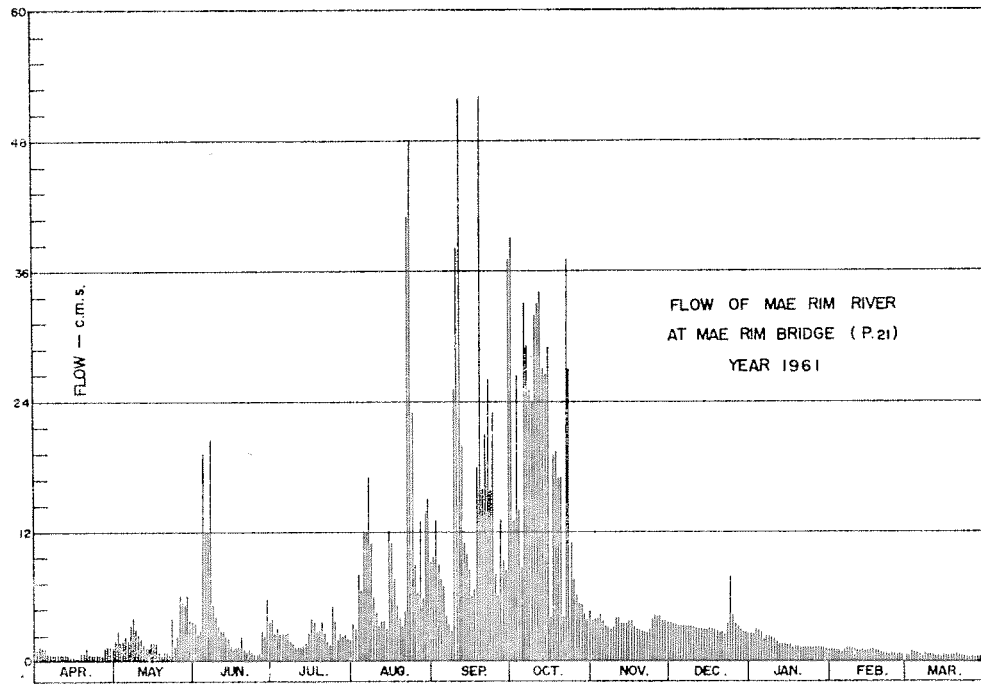
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1955-59. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.33	320.46	320.63	320.66	320.62	321.05	321.97	320.65	320.63	320.53	320.36	320.27
2	.39	.55	.52	.53	.58	.19	.19	.66	.62	.52	.35	.26
3	.37	.44	.55	.45	.94	.00	.61	.67	.62	.57	.35	.34
4	.33	.46	321.44	.40	.85	320.92	.25	.70	.61	.56	.34	.29
5	.20	.51	.18	.40	321.17	.88	320.99	.64	.61	.55	.34	.29
6	320.26	320.46	321.16	320.53	321.16	320.69	320.83	320.61	320.61	320.47	320.35	320.28
7	.25	.61	320.97	.54	.36	.61	.73	.60	.61	.51	.37	.25
8	.26	.68	.76	.44	.09	.64	.63	.58	.61	.51	.38	.30
9	.27	.59	.66	.42	320.81	321.63	.60	.61	.60	.50	.37	.28
10	.27	.53	.60	.39	.71	.95	.82	.66	.60	.48	.36	.26
11	320.25	320.47	320.55	320.40	320.61	322.25	320.84	320.66	320.59	320.44	320.35	320.25
12	.28	.42	.55	.40	.64	321.48	.86	.62	.59	.42	.33	.22
13	.22	.38	.51	.41	.65	.10	.68	.59	.59	.42	.36	.23
14	.19	.39	.47	.44	.59	.06	.61	.59	.58	.43	.33	.21
15	.20	.44	.40	.53	321.14	320.97	.74	.64	.57	.42	.34	.26
16	320.18	320.44	320.37	320.67	321.13	320.82	320.68	320.64	320.58	320.42	320.34	320.25
17	.18	.43	.38	.65	320.91	.89	321.43	.60	.58	.40	.35	.24
18	.29	.32	.38	.56	.76	321.42	320.90	.58	.57	.40	.35	.25
19	.30	.25	.49	.57	.67	322.25	.75	.57	.56	.39	.34	.27
20	.37	.32	.34	.64	.60	321.35	.75	.56	.55	.38	.31	.24
21	320.27	320.30	320.32	320.52	320.72	321.50	320.68	320.54	320.54	320.38	320.31	320.25
22	.26	.25	.34	.44	322.03	.66	321.93	.54	.53	.38	.30	.23
23	.27	.66	.29	.41	.20	.34	.69	.59	.63	.39	.27	.22
24	.26	.40	.24	.75	321.58	.56	.11	.66	.93	.37	.29	.20
25	.23	.49	.25	.64	.01	320.95	320.93	.68	.69	.37	.28	.20
26	320.23	320.82	320.29	320.47	320.84	320.82	320.82	320.68	320.62	320.37	320.27	320.22
27	.37	.78	.56	.53	321.21	321.23	.77	.68	.60	.38	.28	.21
28	.40	.75	.49	.51	320.81	.02	.76	.65	.57	.38	.27	.22
29	.39	.82	.80	.51	321.24	320.97	.70	.65	.55	.37	.27	.22
30	.38	.64	.67	.48	.30	321.94	.66	.64	.55	.36	.27	.22
31		.64		.48	.02		.72		.54	.36		.18
Mean	320.28	320.51	320.57	320.51	321.00	321.24	320.95	320.62	320.60	320.43	320.33	320.24
Max.	320.40	320.82	321.44	320.75	322.20	322.25	321.97	320.70	320.93	320.57	320.38	320.34
Min.	320.18	320.25	320.24	320.39	320.58	320.61	320.60	320.54	320.53	320.36	320.27	320.18

WATER YEAR 1961 : Max. 322.25 m. Min. 320.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.98	1.94	3.56	3.92	3.44	9.85	39	3.80	3.56	2.57	1.16	0.68
2	1.34	2.75	2.48	2.57	3.02	13	13	3.02	3.44	2.43	1.10	0.64
3	1.22	1.76	2.84	1.85	7.94	8.90	24	4.04	3.44	2.93	1.10	1.04
4	0.98	1.94	19	1.40	6.55	7.62	14	4.40	3.32	2.84	1.04	0.76
5	0.72	2.39	12	1.40	12	7.00	8.74	3.68	3.32	2.75	1.40	0.76
6	0.64	1.96	12	2.57	12	4.28	33	3.32	3.32	2.03	1.10	0.72
7	0.60	3.32	8.42	2.66	17	3.32	29	3.20	3.32	2.39	1.22	0.60
8	0.64	4.16	5.24	1.76	11	3.68	25	3.02	3.32	2.39	1.28	0.80
9	0.68	3.11	3.92	1.58	5.95	25	24	3.32	3.20	2.30	1.22	0.72
10	0.68	2.57	3.20	1.34	4.54	38	32	3.92	3.20	2.12	1.16	0.64
11	0.60	2.03	2.75	1.40	3.32	52	33	3.92	3.11	1.76	1.10	0.64
12	0.72	1.58	2.75	1.40	3.68	20	34	3.44	3.11	1.58	0.98	0.48
13	0.48	1.28	2.39	1.49	3.80	11	27	3.11	3.11	1.58	1.16	0.53
14	0.37	1.34	2.03	1.76	3.11	10	24	3.11	3.02	1.67	0.98	0.44
15	0.40	1.76	1.40	2.57	12	8.42	29	3.68	2.93	1.58	1.04	0.64
16	0.34	1.76	1.22	4.04	11	6.10	4.16	3.68	3.02	1.58	1.04	0.62
17	0.34	1.67	1.28	3.80	7.46	7.15	19	3.20	3.02	1.40	1.10	0.56
18	0.76	0.92	1.28	2.84	5.24	18	7.30	3.02	2.93	1.40	1.10	0.62
19	0.60	0.60	2.21	2.93	4.04	52	5.10	2.93	2.84	1.34	1.04	0.68
20	1.22	0.92	1.04	3.68	3.20	16	5.10	2.84	2.75	1.28	0.86	0.56
21	0.68	0.80	0.92	2.48	4.68	21	4.16	2.66	2.66	1.28	0.86	0.62
22	0.64	0.60	1.04	1.76	41	26	37	2.66	2.57	1.28	0.80	0.53
23	0.68	3.92	0.76	1.49	48	16	27	3.11	3.56	1.34	0.68	0.48
24	0.64	1.40	0.56	5.10	23	23	11	3.92	7.78	1.22	0.76	0.40
25	0.52	2.21	0.60	3.68	9.09	8.10	7.78	4.16	4.28	1.22	0.72	0.40
26	0.52	6.10	0.76	2.03	6.40	6.10	6.10	4.16	3.44	1.22	0.68	0.48
27	1.22	5.52	2.84	2.57	13	13	5.38	4.16	3.20	1.28	0.72	0.44
28	1.40	5.10	2.21	2.39	5.95	9.28	5.24	3.80	2.93	1.28	0.68	0.48
29	1.34	6.10	5.80	2.39	14	8.42	4.40	3.80	2.75	1.22	0.76	0.48
30	1.28	3.68	4.04	2.12	15	37	3.92	3.60	2.66	1.16	0.68	0.48
31		3.68		2.12	9.28		4.68		2.62	1.16		0.34
Total	23.43	79.87	110.54	75.09	329.69	489.22	546.06	105.58	101.86	53.63	27.72	18.26
Mean	0.78	2.55	3.66	2.42	10.6	16.3	17.6	3.50	3.29	1.71	1.00	0.58
Max.	1.40	6.10	19	5.10	48	52	39	4.40	7.78	2.93	1.28	1.04
Min.	0.34	0.60	0.56	1.34	3.02	3.32	3.92	2.66	2.62	1.16	0.68	0.34
Runoff - mcm.	2.024	6.901	9.551	6.488	28.485	42.269	47.179	9.122	8.891	4.631	2.395	1.578

WATER YEAR 1961 : Max. 52 Min. 0.34 Mean 5.37 Annual Runoff 169.426 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 19	06.00	322.34	60				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Rim Creek at Mae Rim Bridge, Chiang Mai (P.21)

Location: Lat 16°-55' - 29" N, Long 98°-56' - 34" E, on right bank 100 meters downstream from the bridge, on highway Chiang Mai Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.69 m. (M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.4

Location: Near the pond which belong to Mr. Bunsri Tongsuksakul
Elevation: +321.928 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 - 60
Rated by Float: -
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

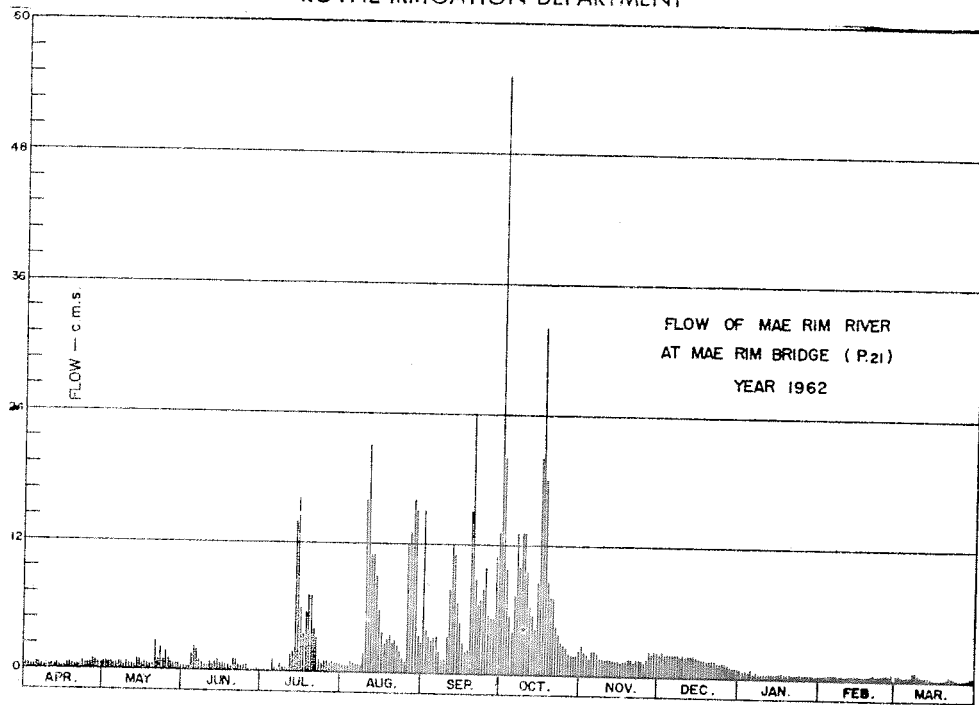
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1955 - 59. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.22	320.30	320.17	320.10	320.26	321.31	322.29	320.54	320.48	320.32	320.18	320.22
2	.23	.29	.18	.10	.26	320.67	321.46	.47	.49	.29	.18	.22
3	.20	.28	.18	.09	.27	.53	320.97	.44	.48	.28	.19	.21
4	.20	.29	.43	.08	.34	.45	.77	.43	.48	.24	.21	.19
5	.26	.26	.49	.35	.30	.61	.67	.50	.47	.26	.21	.20
6	320.24	320.25	320.46	320.19	320.29	320.62	320.90	320.49	320.47	320.20	320.21	320.21
7	.20	.30	.35	.14	.29	.46	321.21	.46	.47	.23	.21	.29
8	.20	.30	.28	.29	.28	.38	.06	.43	.46	.21	.20	.32
9	.23	.22	.25	.20	.44	.38	.19	.42	.45	.20	.20	.23
10	.21	.32	.22	.18	321.34	.63	.22	.41	.46	.20	.18	.21
11	320.22	320.24	320.29	320.18	321.51	320.93	321.03	320.41	320.45	320.19	320.20	320.10
12	.22	.23	.26	.43	.10	321.15	320.83	.41	.46	.21	.19	.19
13	.26	.29	.30	.48	.11	.11	.77	.40	.46	.22	.18	.17
14	.16	.34	.34	321.26	.20	320.86	.68	.40	.46	.21	.19	.16
15	.18	.34	.28	.32	320.83	.72	.98	.40	.45	.22	.20	.11
16	320.20	320.27	320.28	320.80	320.65	320.56	321.48	320.39	320.43	320.22	320.18	320.11
17	.25	.29	.17	.63	.54	.46	.81	.40	.43	.23	.17	.11
18	.26	.26	.18	.78	.59	.50	.22	.40	.42	.21	.19	.09
19	.23	.23	.20	.89	.62	321.30	320.96	.42	.42	.20	.19	.12
20	.21	.25	.35	.89	.54	.61	.89	.41	.41	.22	.21	.16
21	320.23	320.55	320.35	320.67	320.58	320.97	320.89	320.38	320.42	320.21	320.23	320.22
22	.23	.34	.24	.47	.53	.84	.71	.41	.41	.21	.20	.18
23	.30	.48	.22	.35	.46	.69	.64	.42	.46	.22	.19	.17
24	.25	.47	.25	.31	.38	.93	.58	.40	.39	.18	.22	.12
25	.27	.45	.17	.34	.34	321.04	.55	.38	.39	.18	.22	.11
26	320.30	320.35	320.14	320.36	321.18	320.77	320.52	320.42	320.38	320.18	320.23	320.10
27	.33	.30	.12	.31	.19	.76	.47	.49	.35	.18	.22	.13
28	.32	.25	.10	.33	.32	.76	.45	.48	.34	.18	.24	.13
29	.27	.26	.15	.29	320.81	321.11	.45	.49	.34	.17	.17	.17
30	.25	.27	.13	.32	.63	.20	.45	.49	.34	.17	.19	.19
31		.21		.29	.57		.50		.32	.18		.15
Mean	320.24	320.24	320.25	320.43	320.69	320.81	320.95	320.43	320.42	320.21	320.20	320.18
Max.	320.33	320.55	320.49	321.32	321.51	321.61	322.29	320.54	320.49	320.32	320.24	320.32
Min.	320.16	320.21	320.10	320.08	320.26	320.38	320.45	320.38	320.32	320.16	320.17	320.09

WATER YEAR 1962 : Max. 322.29 m. Min. 320.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.48	0.80	0.31	0.10	0.64	15	55	2.66	2.12	0.92	0.34	0.48
2	0.52	0.76	0.34	0.10	0.64	4.04	20	2.03	2.21	0.60	0.34	0.48
3	0.40	0.72	0.34	0.09	0.68	2.57	8.42	1.76	2.12	0.72	0.37	0.44
4	0.40	0.76	1.67	0.08	1.04	1.05	5.38	1.67	2.12	0.56	0.44	0.37
5	0.64	0.64	2.21	1.10	0.80	3.32	4.04	2.30	2.03	0.76	0.44	0.40
6	0.56	0.64	1.94	0.37	0.76	3.44	7.30	2.21	2.03	0.40	0.44	0.44
7	0.40	0.80	1.10	0.22	0.76	1.94	13	1.94	2.03	0.52	0.44	0.76
8	0.40	0.80	0.72	0.76	0.72	1.28	10	1.67	1.94	0.44	0.40	0.92
9	0.52	0.48	0.60	0.40	1.76	1.28	13	1.58	1.85	0.40	0.40	0.52
10	0.44	0.92	0.48	0.34	16	3.56	13	1.49	1.94	0.40	0.34	0.44
11	0.48	0.56	0.76	0.34	21	7.78	6.47	1.49	1.85	0.37	0.40	0.34
12	0.48	0.52	0.54	1.67	11	12	6.25	1.40	1.94	0.44	0.37	0.37
13	0.64	0.76	0.80	2.12	11	11	5.38	1.40	1.94	0.48	0.34	0.31
14	0.28	1.04	1.04	14	9.28	6.67	4.16	1.40	1.94	0.44	0.37	0.28
15	0.34	1.04	0.72	16	6.25	4.68	8.58	1.40	1.85	0.48	0.40	0.13
16	0.40	0.68	0.72	5.80	3.80	2.84	20	1.34	1.67	0.48	0.34	0.13
17	0.60	0.76	0.31	3.56	2.66	1.94	32	1.40	1.67	0.52	0.31	0.13
18	0.64	0.64	0.34	5.52	3.11	2.30	13	1.40	1.58	0.44	0.37	0.09
19	0.52	0.52	0.40	7.15	3.44	15	8.26	1.58	1.58	0.40	0.37	0.16
20	0.44	0.60	1.10	7.15	2.66	24	7.15	1.49	1.49	0.40	0.44	0.28
21	0.52	2.75	1.10	4.04	3.02	8.42	7.15	1.28	1.58	0.44	0.52	0.48
22	0.52	1.04	0.56	2.03	2.57	6.40	4.54	1.49	1.49	0.44	0.40	0.34
23	0.80	2.12	0.48	1.10	1.94	4.28	3.68	1.58	1.40	0.40	0.37	0.31
24	0.60	2.03	0.60	0.86	1.28	7.78	3.02	1.40	1.34	0.34	0.48	0.16
25	0.68	1.85	0.31	1.04	1.04	0.66	2.75	1.28	1.34	0.34	0.48	0.13
26	0.80	1.10	0.22	1.16	12	5.38	2.48	1.56	1.28	0.34	0.52	0.10
27	0.98	0.80	0.16	0.86	13	5.24	2.03	2.21	1.10	0.34	0.48	0.19
28	0.92	0.60	0.10	0.98	16	5.24	1.85	2.12	1.04	0.34	0.56	0.19
29	0.68	0.64	0.25	0.76	5.95	11	1.85	2.21	1.04	0.31	0.31	0.31
30	0.60	0.68	0.19	0.92	3.56	13	1.85	2.21	1.04	0.28	0.37	0.37
31		0.44		0.76	2.93		2.30		0.92	0.34		0.25
Total	16.68	28.49	20.51	81.38	161.29	202.89	296.89	51.06	51.47	14.16	11.47	10.30
Mean	0.56	0.92	0.68	2.62	5.20	6.76	9.58	1.70	1.66	0.46	0.41	0.33
Max.	0.98	2.75	2.21	16	21	24	55	2.66	2.21	0.92	0.56	0.92
Min.	0.28	0.44	0.10	0.08	0.64	1.28	1.85	1.28	0.92	0.28	0.31	0.09
Runoff - BCM.	1.441	2.461	1.772	7.031	13.935	17.530	25.651	4.411	4.447	1.225	0.991	0.889

WATER YEAR 1962 : Max. 55 Min. 0.08 Mean 2.59 Annual Runoff 81.785 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	15.00	322.32	58				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Sa Creek at Mae Sa Bridge, Chiang Mai (P.22)

Location: Lat 18°-53'-45" N, Long 98°-57'-12" E, on left bank 50 meters downstream of the bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.43 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank 9 meters from the bridge.

Elevation: +321.485 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 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

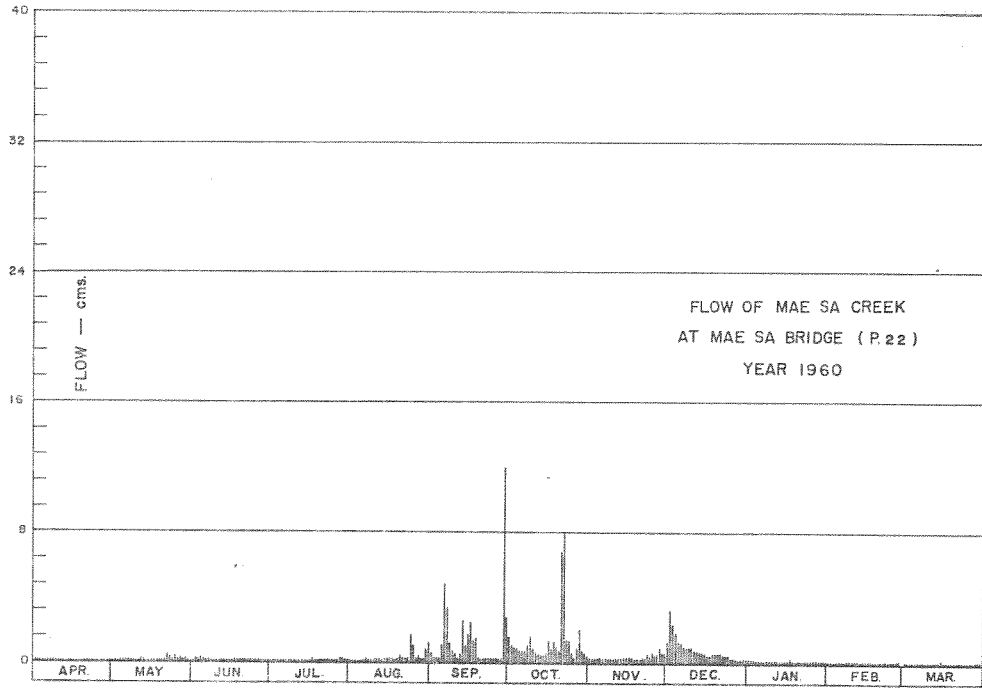
General Description: Records fair. The data presented is made by discharge measurements during 1960. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	317.54	317.51	317.55	317.55	317.56	317.78	317.96	317.65	317.93	317.63	317.54	317.55
2	.54	.52	.67	.54	.57	.68	.88	.66	318.15	.63	.52	.53
3	.56	.52	.63	.54	.61	.67	.85	.68	.08	.65	.56	.50
4	.56	.50	.69	.55	.57	.66	.84	.68	.02	.58	.56	.54
5	.56	.51	.69	.56	.56	.90	.82	.70	317.94	.59	.53	.57
6	317.54	317.55	317.59	317.58	317.62	318.30	317.82	317.63	317.91	317.58	317.55	317.58
7	.54	.54	.61	.58	.64	.19	.82	.66	.88	.58	.55	.59
8	.54	.55	.59	.57	.59	317.91	.89	.66	.86	.53	.57	.59
9	.54	.53	.56	.56	.61	.80	.99	.67	.87	.61	.58	.54
10	.53	.54	.54	.57	.63	.77	.85	.66	.86	.55	.55	.51
11	317.53	317.49	317.54	317.57	317.65	317.69	317.79	317.66	317.82	317.61	317.54	317.51
12	.52	.64	.54	.56	.64	.76	.76	.64	.79	.57	.52	.56
13	.53	.56	.52	.56	.57	318.11	.75	.66	.78	.55	.59	.56
14	.52	.52	.52	.54	.84	317.89	.74	.68	.78	.56	.60	.52
15	.53	.53	.54	.54	.65	318.00	.77	.70	.76	.54	.61	.53
16	317.52	317.54	317.55	317.55	317.68	318.10	317.94	317.70	317.75	317.57	317.60	317.52
17	.52	.52	.57	.65	.67	317.95	.84	.67	.74	.63	.59	.50
18	.52	.52	.59	.54	.63	.97	.93	.65	.76	.59	.56	.53
19	.52	.55	.56	.55	.64	.62	.86	.65	.76	.55	.54	.54
20	.52	.56	.55	.55	.73	.64	.83	.63	.76	.56	.50	.53
21	317.52	317.59	317.59	317.59	317.69	317.65	318.42	317.69	317.76	317.56	317.49	317.52
22	.52	.73	.54	.56	.66	.68	.49	.67	.75	.51	.51	.57
23	.54	.68	.55	.56	.66	.67	317.96	.77	.73	.61	.53	.54
24	.55	.52	.54	.57	318.00	.65	.94	.73	.74	.59	.52	.54
25	.52	.70	.52	.57	317.88	.65	.78	.79	.69	.59	.56	.54
26	317.53	317.62	317.54	317.56	317.69	317.65	317.67	317.74	317.68	317.60	317.55	317.54
27	.53	.66	.53	.57	.71	.64	318.00	.76	.65	.62	.53	.54
28	.54	.58	.64	.65	.65	.64	.04	.80	.95	.60	.54	.57
29	.52	.68	.53	.61	.64	318.69	317.80	.78	.63	.99	.62	.62
30	.52	.54	.53	.58	.85	.13	.75	.78	.66	.62	.60	.60
31		.56		.57	.91		.75		.66	.58		.53
Mean	317.53	317.57	317.56	317.57	317.67	317.85	317.89	317.69	317.80	317.58	317.55	317.54
Max.	317.56	317.73	317.69	317.65	318.00	318.69	318.49	317.80	318.15	317.63	317.61	317.62
Min.	317.52	317.49	317.52	317.54	317.56	317.64	317.67	317.63	317.55	317.51	317.49	317.50

WATER YEAR 1960 : Max. 318.69 m. Min. 317.49 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.08	0.05	0.09	0.07	0.10	0.58	1.54	0.19	1.25	0.17	0.08	0.09
2	0.08	0.06	0.25	0.08	0.11	0.26	1.00	0.20	3.20	0.17	0.06	0.07
3	0.10	0.06	0.17	0.08	0.15	0.23	0.86	0.26	2.28	0.16	0.10	0.04
4	0.10	0.04	0.29	0.09	0.11	0.20	0.82	0.26	1.82	0.12	0.10	0.08
5	0.10	0.05	0.19	0.10	0.10	1.10	0.74	0.32	1.50	0.13	0.07	0.11
6	0.08	0.09	0.13	0.12	0.16	4.80	0.74	0.19	1.15	0.12	0.09	0.12
7	0.08	0.08	0.15	0.12	0.18	3.36	0.74	0.20	1.05	0.12	0.09	0.13
8	0.08	0.09	0.15	0.11	0.13	1.15	1.05	0.20	0.90	0.07	0.11	0.13
9	0.08	0.07	0.10	0.10	0.15	0.66	1.61	0.23	0.95	0.15	0.12	0.08
10	0.07	0.08	0.08	0.11	0.17	0.54	0.86	0.20	0.90	0.09	0.09	0.05
11	0.07	0.05	0.08	0.11	0.19	0.29	0.62	0.20	0.74	0.15	0.08	0.05
12	0.06	0.18	0.08	0.10	0.18	0.50	0.52	0.19	0.66	0.11	0.06	0.10
13	0.07	0.10	0.06	0.10	0.11	2.55	0.47	0.20	0.58	0.09	0.13	0.10
14	0.06	0.06	0.06	0.08	0.18	1.05	0.44	0.26	0.58	0.10	0.14	0.05
15	0.07	0.07	0.08	0.08	0.19	1.68	0.54	0.32	0.50	0.08	0.15	0.07
16	0.06	0.09	0.09	0.09	0.26	2.46	1.30	0.32	0.47	0.11	0.14	0.06
17	0.06	0.09	0.11	0.19	0.23	1.35	0.82	0.23	0.47	0.17	0.13	0.04
18	0.06	0.06	0.13	0.08	0.17	1.47	1.25	0.19	0.50	0.13	0.10	0.07
19	0.06	0.09	0.10	0.09	0.18	0.26	0.90	0.19	0.50	0.09	0.08	0.08
20	0.06	0.10	0.09	0.09	0.41	0.18	0.78	0.17	0.50	0.10	0.04	0.06
21	0.06	0.13	0.09	0.13	0.29	0.19	6.78	0.29	0.50	0.10	0.03	0.06
22	0.06	0.41	0.08	0.10	0.20	0.26	8.10	0.23	0.47	0.05	0.05	0.11
23	0.08	0.26	0.09	0.10	0.20	0.23	1.40	0.50	0.41	0.15	0.07	0.08
24	0.09	0.16	0.08	0.11	1.68	0.19	1.30	0.41	0.44	0.13	0.06	0.08
25	0.06	0.32	0.06	0.11	1.00	0.19	0.58	0.62	0.20	0.13	0.10	0.08
26	0.07	0.16	0.08	0.10	0.29	0.19	0.25	0.47	0.23	0.14	0.09	0.08
27	0.07	0.20	0.07	0.11	0.35	0.18	1.68	0.50	0.18	0.16	0.07	0.08
28	0.08	0.12	0.08	0.19	0.19	0.18	1.96	0.66	0.10	0.14	0.08	0.11
29	0.06	0.20	0.07	0.15	0.18	12	0.66	0.58	0.17	0.13	0.08	0.16
30	0.06	0.08	0.07	0.12	0.85	2.73	0.47	0.58	0.20	0.16	0.14	0.14
31	0.10	0.10	0.11	1.15	0.41	0.18	0.41	0.20	0.20	0.12	0.07	0.07
Total	2.17	3.68	3.21	3.32	9.85	41.01	41.17	9.36	23.40	3.84	2.51	2.63
Mean	0.07	0.12	0.11	0.11	0.32	1.37	1.53	0.31	0.75	0.12	0.12	0.08
Max.	0.10	0.41	0.29	0.19	1.68	12	8.10	0.66	3.20	0.17	0.15	0.16
Min.	0.06	0.03	0.06	0.07	0.10	0.18	0.23	0.17	0.10	0.05	0.03	0.04
Runoff - mcm.	0.187	0.518	0.277	0.287	0.851	3.543	3.557	0.899	2.022	0.332	0.217	0.227

WATER YEAR 1960 : Max. 12 Min. 0.03 Mean 0.40 Annual Runoff 12.632 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 29	12.00	319.36	36				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Sa Creek at Mae Sa Bridge, Chiang Mai (P.22)

Location: Lat 18°-53' - 45" N, Long 98°-57' - 12" E, on left bank 50 meters downstream of the bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.43 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank 9 meters downstream of the bridge.
Elevation: + 321.485 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 - 60
Rated by Float: -
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

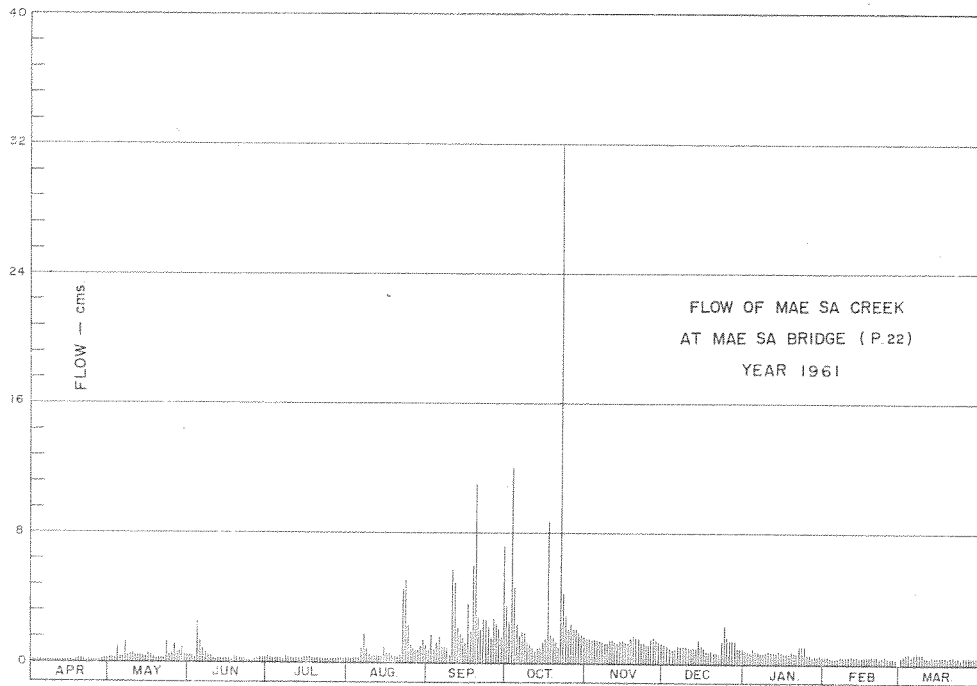
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1959 - 60. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	317.52	317.65	317.72	317.68	317.62	317.81	318.17	317.96	317.89	317.82	317.68	317.67
2	.53	.61	.67	.65	.62	318.00	.09	.96	.88	.80	.72	.73
3	.55	.62	.65	.62	.63	317.82	.63	.94	.85	.81	.66	.80
4	.54	.86	318.09	.64	.64	.90	.26	.94	.83	.86	.66	.75
5	.51	.66	317.94	.62	.66	.98	.07	.94	.80	.82	.65	.71
6	317.51	317.65	317.82	317.61	317.84	317.85	318.00	317.93	317.88	317.79	317.67	317.76
7	.57	.92	.76	.60	318.00	.86	.02	.92	.88	.78	.88	.78
8	.52	.91	.72	.67	317.84	.86	.01	.91	.88	.77	.70	.77
9	.53	.73	.67	.66	.72	.72	317.90	.91	.87	.80	.98	.76
10	.57	.73	.60	.63	.71	318.33	.89	.95	.86	.81	.67	.69
11	317.51	317.71	317.59	317.62	317.70	318.28	317.86	317.94	317.85	317.78	317.70	317.67
12	.53	.68	.59	.64	.69	.05	.82	.92	.86	.78	.69	.66
13	.54	.70	.60	.62	.67	.00	.86	.92	.86	.78	.69	.71
14	.56	.67	.58	.62	.69	317.96	.86	.93	.94	.82	.65	.68
15	.55	.67	.58	.66	.84	.91	.93	.94	.88	.78	.68	.68
16	317.55	317.73	317.58	317.66	317.77	318.18	317.88	317.92	317.85	317.76	317.68	317.69
17	.52	.72	.56	.67	.74	.02	318.49	.92	.80	.76	.68	.70
18	.54	.68	.69	.65	.70	.34	317.99	.96	.79	.76	.69	.68
19	.60	.62	.66	.64	.66	.58	.97	.99	.80	.79	.70	.67
20	.59	.62	.64	.64	.66	.12	.91	.96	.78	.75	.68	.69
21	317.56	317.62	317.61	317.62	317.73	318.04	317.86	317.96	317.76	317.75	317.69	317.69
22	.54	.61	.58	.61	318.25	.10	319.27	.92	.76	.88	.66	.66
23	.52	.92	.54	.62	.29	.10	318.23	.92	.93	.87	.69	.69
24	.51	.72	.57	.62	.05	.05	.12	.89	318.07	.88	.72	.60
25	.56	.74	.56	.62	317.90	317.98	.04	.91	317.98	.75	.65	.69
26	317.53	317.89	317.58	317.62	317.83	318.11	318.07	317.97	317.93	317.74	317.64	317.59
27	.55	.74	.59	.62	.81	.07	.04	.98	.94	.68	.65	.69
28	.58	.79	.62	.62	.82	.04	.04	.95	.94	.71	.65	.68
29	.62	.85	.65	.62	.87	317.97	.02	.92	.94	.72	.68	.68
30	.60	.70	.64	.61	.95	318.41	.00	.91	.83	.73	.67	.67
31		.69		.62	.87		317.96		.84	.70		.66
Mean	317.55	317.72	317.63	317.65	317.80	318.05	318.07	317.91	317.84	317.78	317.68	317.70
Max.	317.62	317.92	318.09	317.68	318.29	318.58	319.27	317.99	318.07	317.88	317.88	317.80
Min.	317.51	317.61	317.54	317.60	317.62	317.72	317.82	317.89	317.76	317.68	317.64	317.60

WATER YEAR 1961 : Max. 319.27 m. Min. 317.51 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.07	0.30	0.46	0.36	0.24	0.74	3.44	1.46	1.10	0.78	0.36	0.34
2	0.08	0.22	0.34	0.30	0.24	1.70	2.51	1.46	1.05	0.70	0.46	0.49
3	0.10	0.24	0.30	0.24	0.26	0.78	12	1.35	0.90	0.74	0.32	0.70
4	0.09	0.95	2.51	0.28	0.28	1.15	4.64	1.35	0.82	0.95	0.32	0.55
5	0.06	0.32	1.35	0.24	0.32	1.56	2.33	1.35	0.95	0.78	0.30	0.43
6	0.06	0.30	0.78	0.22	0.86	0.90	1.70	1.30	1.05	0.67	0.34	0.58
7	0.14	1.25	0.58	0.20	1.70	0.95	1.88	1.25	1.05	0.64	0.35	0.64
8	0.07	0.43	0.46	0.34	0.86	0.95	1.79	1.20	1.05	0.61	0.40	0.61
9	0.08	0.49	0.34	0.32	0.46	0.46	1.15	1.20	1.00	0.70	0.36	0.58
10	0.14	0.49	0.20	0.28	0.43	5.71	1.10	1.40	0.95	0.74	0.34	0.38
11	0.06	0.43	0.18	0.24	0.40	4.92	0.95	1.35	0.90	0.64	0.40	0.34
12	0.08	0.36	0.18	0.28	0.38	2.15	0.78	1.25	0.95	0.64	0.38	0.32
13	0.09	0.40	0.20	0.24	0.34	1.70	0.95	1.25	0.95	0.64	0.38	0.43
14	0.12	0.34	0.18	0.24	0.38	1.46	0.95	1.30	1.35	0.78	0.30	0.36
15	0.10	0.34	0.18	0.32	0.86	1.20	1.30	1.35	1.05	0.64	0.36	0.36
16	0.10	0.49	0.18	0.32	0.61	3.56	1.50	1.25	0.90	0.58	0.36	0.38
17	0.07	0.46	0.12	0.34	0.52	1.88	8.70	1.25	0.70	0.58	0.36	0.40
18	0.09	0.36	0.38	0.30	0.40	5.88	1.64	1.46	0.67	0.58	0.38	0.36
19	0.20	0.24	0.32	0.28	0.36	11	1.52	1.64	0.70	0.67	0.40	0.34
20	0.18	0.24	0.28	0.28	0.32	2.84	1.20	1.46	0.64	0.55	0.36	0.38
21	0.12	0.24	0.22	0.24	0.49	2.06	0.95	1.46	0.58	0.55	0.38	0.38
22	0.09	0.22	0.18	0.22	4.50	2.60	32	1.25	0.58	1.05	0.32	0.32
23	0.07	1.25	0.09	0.24	5.06	2.60	4.22	1.25	1.30	1.00	0.38	0.38
24	0.06	0.46	0.14	0.24	2.24	2.15	2.84	1.10	2.33	1.05	0.46	0.20
25	0.12	0.52	0.12	0.24	1.15	1.58	2.06	1.20	1.58	0.55	0.30	0.38
26	0.08	1.10	0.16	0.24	0.82	2.72	2.33	1.52	1.30	0.52	0.28	0.38
27	0.10	0.52	0.18	0.24	0.74	2.33	2.06	1.58	1.35	0.36	0.30	0.38
28	0.16	0.67	0.24	0.24	0.78	2.06	2.06	1.40	1.35	0.43	0.30	0.36
29	0.24	0.90	0.30	0.24	1.00	1.52	1.88	1.25	0.82	0.46	0.36	0.36
30	0.20	0.40	0.28	0.22	1.40	7.10	1.70	1.20	0.86	0.49	0.34	0.34
31	0.20	0.38	0.28	0.24	1.00	1.00	1.46	1.20	0.86	0.40	0.32	0.32
Total	3.22	15.31	11.43	8.22	29.40	78.23	105.59	40.09	32.13	20.47	9.96	12.77
Mean	0.11	0.48	0.37	0.26	0.95	2.60	3.55	1.33	1.06	0.64	0.35	0.42
Max.	0.24	1.25	2.51	0.36	5.06	11	32	1.64	2.33	1.05	0.46	0.70
Min.	0.06	0.22	0.12	0.20	0.24	0.46	0.78	1.10	0.58	0.40	0.28	0.20
Runoff - BCM.	0.278	1.323	0.987	0.710	2.540	6.759	9.123	3.464	2.776	1.769	0.860	1.103

WATER YEAR 1961 : Max. 32 Min. 0.06 Mean 1.00 Annual Runoff 31,693 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 22	06.00	319.32	34				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Sa Creek at Mae Sa Bridge, Chiang Mai (P.22)

Location: Lat 18° - 53' - 45" N, Long 98° - 57' - 12" E, on left bank 50 meters downstream of the bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.43 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank 9 meters downstream of the bridge.

Elevation: +321.485 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 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

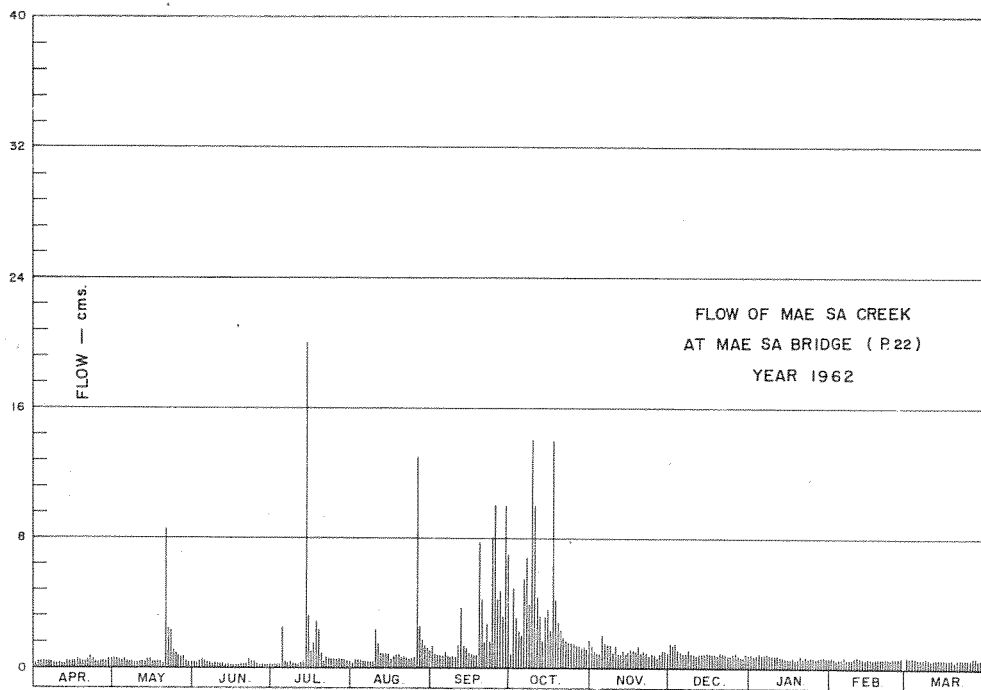
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1959 - 60. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	317.65	317.77	317.67	317.60	317.70	317.93	317.85	317.95	317.96	317.85	317.79	317.79
2	.67	.76	.66	.60	.73	.84	318.28	.88	.95	.80	.75	.79
3	.67	.75	.73	.61	.73	.83	.14	.85	.97	.82	.74	.79
4	.67	.72	.75	.59	.72	.82	.06	.84	.89	.86	.77	.79
5	.69	.76	.69	318.09	.72	.82	.03	318.05	.87	.83	.77	.77
6	317.67	317.69	317.69	317.69	317.70	317.86	318.32	317.96	317.85	317.83	317.79	317.76
7	.66	.69	.66	.66	.70	.81	.39	.93	.86	.84	.77	.77
8	.64	.70	.64	.69	.69	.80	.19	.95	.89	.82	.77	.78
9	.64	.70	.66	.65	.70	.80	.70	.86	.85	.82	.75	.76
10	.66	.67	.65	.63	318.07	.80	.55	.94	.83	.82	.79	.74
11	317.65	317.70	317.64	317.62	317.97	317.95	318.24	317.84	317.81	317.82	317.81	317.76
12	.65	.71	.61	.74	.85	318.19	.15	.84	.84	.81	.79	.75
13	.70	.69	.61	.72	.85	317.95	317.99	.88	.84	.79	.77	.77
14	.69	.76	.61	318.88	.84	.92	318.14	.84	.84	.77	.75	.76
15	.69	.77	.59	.16	.84	.86	.18	.87	.85	.76	.78	.75
16	317.70	317.70	317.58	317.87	317.77	317.84	318.07	317.89	317.84	317.74	317.74	317.73
17	.74	.70	.59	.98	.82	.83	.70	.89	.83	.78	.74	.74
18	.73	.70	.59	318.12	.83	.83	.23	.87	.83	.73	.77	.73
19	.71	.69	.61	317.70	.83	318.44	.13	.94	.83	.76	.77	.72
20	.71	.66	.62	.84	.79	.23	.07	.85	.86	.81	.77	.74
21	317.74	318.48	317.63	317.71	317.79	317.99	318.01	317.89	317.84	317.77	317.77	317.77
22	.79	.08	.75	.79	.78	318.11	317.99	.85	.84	.81	.78	.75
23	.74	.07	.69	.76	.76	317.99	.98	.81	.82	.77	.77	.76
24	.71	317.87	.69	.76	.78	318.46	.97	.84	.80	.80	.76	.76
25	.68	.83	.62	.76	.81	.55	.96	.82	.84	.79	.78	.75
26	317.71	317.79	317.61	317.74	318.67	318.23	317.94	317.78	317.86	317.77	317.78	317.79
27	.72	.79	.61	.77	.12	.27	.93	.86	.82	.78	.78	.79
28	.71	.79	.59	.74	.60	.15	.91	.89	.81	.79	.80	.73
29	.75	.72	.61	.74	317.94	.55	.93	.89	.81	.79	.76	.76
30	.75	.69	.60	.72	.91	.40	.92	.84	.84	.78	.78	.79
31		.68		.71	.89		.99		.83	.78		.78
Mean	317.70	317.78	317.62	317.77	317.85	318.03	318.13	317.88	317.85	317.77	317.74	317.76
Max.	317.79	318.48	317.75	318.88	318.67	318.55	318.70	318.05	317.97	317.86	317.81	317.79
Min.	317.64	317.66	317.58	317.60	317.69	317.80	317.85	317.78	317.80	317.73	317.74	317.72

WATER YEAR 1962 : Max. 318.94 m. Min. 317.58 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	0.61	0.34	0.20	0.40	1.30	0.90	1.40	1.46	0.82	0.67	0.67
2	0.34	0.58	0.32	0.20	0.49	0.86	4.92	1.05	1.40	0.70	0.55	0.67
3	0.34	0.55	0.49	0.22	0.49	0.82	3.08	0.95	1.52	0.78	0.52	0.67
4	0.34	0.46	0.55	0.18	0.46	0.78	2.24	0.86	1.10	0.95	0.61	0.67
5	0.38	0.58	0.38	2.51	0.46	0.78	1.97	2.15	1.00	0.82	0.61	0.61
6	0.34	0.38	0.38	0.38	0.40	0.95	5.52	1.46	0.90	0.82	0.67	0.58
7	0.32	0.38	0.32	0.32	0.40	0.74	6.73	1.30	0.95	0.86	0.61	0.61
8	0.28	0.40	0.28	0.38	0.38	0.70	3.68	1.40	1.10	0.78	0.61	0.64
9	0.28	0.40	0.32	0.30	0.40	0.70	14	0.95	0.90	0.78	0.55	0.58
10	0.32	0.34	0.30	0.26	2.33	0.70	10	1.35	0.82	0.78	0.67	0.52
11	0.30	0.40	0.28	0.24	1.52	1.40	4.36	0.86	0.74	0.78	0.74	0.58
12	0.30	0.43	0.22	0.52	0.90	3.68	3.20	0.86	0.86	0.74	0.67	0.55
13	0.40	0.38	0.22	0.46	0.90	1.40	1.64	1.05	0.86	0.67	0.61	0.61
14	0.38	0.58	0.22	19	0.86	1.25	3.08	0.86	0.86	0.61	0.55	0.58
15	0.38	0.61	0.18	3.32	0.86	0.95	3.56	1.00	0.90	0.58	0.64	0.55
16	0.40	0.40	0.16	1.00	0.61	0.86	2.33	1.10	0.86	0.52	0.52	0.49
17	0.52	0.40	0.18	1.58	0.78	0.82	14	1.10	0.82	0.64	0.52	0.52
18	0.49	0.40	0.18	2.84	0.82	0.82	4.22	1.00	0.82	0.49	0.61	0.49
19	0.43	0.38	0.22	0.40	0.82	7.70	2.96	1.35	0.82	0.58	0.61	0.46
20	0.43	0.32	0.24	0.86	0.67	4.22	2.33	0.90	0.95	0.74	0.61	0.52
21	0.52	8.50	0.26	0.43	0.67	1.64	1.79	1.10	0.86	0.61	0.61	0.61
22	0.67	2.42	0.55	0.67	0.64	2.72	1.64	0.90	0.86	0.74	0.64	0.55
23	0.52	2.33	0.38	0.58	0.58	1.64	1.58	0.74	0.78	0.61	0.61	0.58
24	0.43	1.00	0.38	0.58	0.64	8.10	1.52	0.86	0.70	0.70	0.58	0.58
25	0.36	0.82	0.24	0.58	0.74	10	1.46	0.78	0.86	0.67	0.64	0.49
26	0.43	0.67	0.22	0.52	13	4.22	1.35	0.64	0.95	0.61	0.64	0.67
27	0.46	0.67	0.22	0.61	2.84	4.78	1.30	0.95	0.78	0.64	0.64	0.67
28	0.43	0.67	0.18	0.52	1.70	3.20	1.20	1.10	0.74	0.67	0.70	0.49
29	0.55	0.46	0.22	0.52	1.35	10	1.30	1.10	0.74	0.67		0.58
30	0.55	0.38	0.20	0.46	1.20	6.90	1.25	0.86	0.86	0.64		0.67
31		0.36		0.43	1.10		1.64		0.82	0.64		0.64
Total	12.19	27.26	8.63	41.07	39.41	84.63	110.75	31.98	28.59	21.64	17.21	18.10
Mean	0.40	0.88	0.29	1.35	1.26	2.83	3.55	1.07	0.90	0.71	0.61	0.58
Max.	0.67	8.50	0.55	19	13	10	14	2.15	1.52	0.95	0.74	0.67
Min.	0.28	0.32	0.16	0.20	0.38	0.70	0.90	0.64	0.70	0.49	0.52	0.46
Runoff - mcm.	1.053	2.355	0.746	3.548	3.405	7.312	9.569	2.763	2.470	1.870	1.487	1.564

WATER YEAR 1962 : Max. 19 Min. 0.16 Mean 1.21 Annual Runoff 38.142 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 14	09.00	319.01	23				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
PING RIVER BASIN

Mae Khan Creek at Mae Khan Bridge, Chiang Mai (P.23)

Location: Lat 18°-31' - 37" N, Long 98°-51' - 42" E, on left bank at downstream side of the bridge, on highway Chiang Mai - Hot, Amphoe San Pa Tong, Chiang Mai.

Drainage Area: 1,777 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +285.62 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.8

Location: On left bank at Mae Khan Bridge.

Elevation: +291.767 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 - 60

Rated by Float: -

Rated by Current Meter: 1955 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

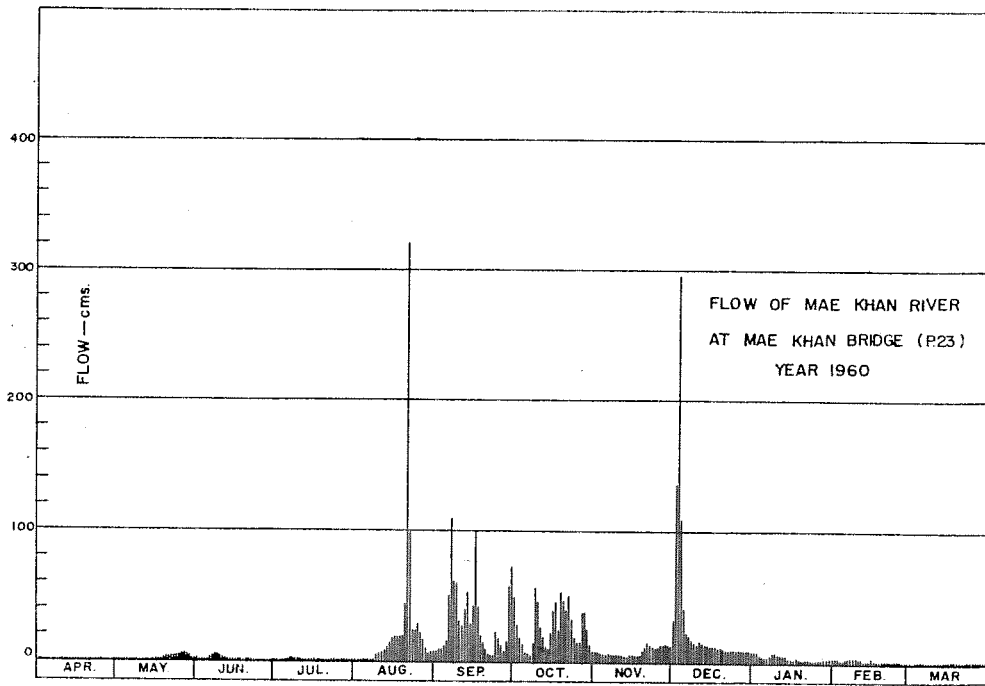
General Description: Records fair. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

Remarks: Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.26	286.10	286.70	286.35	286.52	286.99	287.58	286.99	287.39	286.98	286.79	286.41
2	.25	.09	.61	.34	.53	287.01	.31	.96	288.24	.95	.77	.42
3	.25	.09	.57	.32	.55	.02	.22	.95	.99	.91	.76	.42
4	.24	.08	.54	.32	.57	.06	.09	.93	287.83	.86	.76	.44
5	.24	.08	.56	287.05	.59	.14	286.96	.92	.44	.84	.81	.43
6	286.23	286.08	286.81	287.08	286.61	287.72	286.93	286.92	287.29	286.83	286.83	286.43
7	.23	.12	.81	286.78	.66	288.07	.90	.91	.25	.88	.83	.43
8	.23	.13	.91	.75	.76	287.60	.88	.90	.18	.95	.84	.44
9	.22	.12	.90	.71	.87	.74	287.71	.89	.14	.95	.83	.44
10	.22	.13	.81	.66	.90	.35	.54	.88	.06	.92	.81	.43
11	286.22	286.14	286.75	286.62	286.92	287.33	287.26	286.87	287.16	286.89	286.79	286.44
12	.22	.19	.62	.58	.97	.44	.19	.85	.12	.87	.74	.45
13	.21	.26	.60	.64	287.04	.67	.06	.85	.10	.81	.62	.44
14	.21	.33	.58	.60	.11	.36	.00	.91	.09	.76	.63	.43
15	.21	.44	.57	.57	.17	.23	.32	.91	.07	.75	.77	.44
16	286.21	286.52	286.56	286.56	287.21	288.04	287.54	286.90	287.06	286.74	286.74	286.45
17	.20	.59	.55	.56	.22	287.60	.61	.90	.06	.78	.70	.47
18	.20	.63	.55	.56	.22	.22	.25	.93	.06	.74	.67	.44
19	.19	.74	.54	.55	.23	.11	.67	287.04	.05	.72	.64	.44
20	.18	.77	.50	.55	.52	.01	.60	.08	.05	.72	.62	.45
21	286.18	286.79	286.43	286.55	289.08	286.92	287.51	287.13	287.04	286.70	286.61	286.46
22	.17	.79	.37	.54	287.53	.90	.65	.09	.01	.69	.58	.45
23	.16	.81	.34	.54	.24	.88	.39	.07	.01	.68	.51	.44
24	.15	.85	.32	.54	.33	287.29	.20	.05	.01	.69	.47	.44
25	.14	.88	.32	.54	.38	.19	.13	.08	.01	.67	.45	.43
26	286.14	286.90	286.31	286.53	287.27	287.06	287.08	287.09	287.00	286.68	286.44	286.41
27	.12	.91	.31	.53	.16	286.94	.50	.09	.01	.71	.43	.40
28	.12	.82	.30	.52	.04	287.06	.51	.11	.01	.74	.42	.38
29	.11	.79	.31	.52	286.92	.73	.17	.10	.01	.81	.42	.42
30	.11	.74	.36	.51	.94	.86	.08	.08	.00	.80	.51	.51
31	.72	.72	.51	.51	.98	.98	286.96	.98	286.99	.79	.79	.60
Mean	286.20	286.47	286.58	286.58	287.06	287.32	287.28	286.94	287.15	286.80	286.67	286.45
Max.	286.26	286.91	286.91	287.08	289.08	288.07	287.71	287.13	288.99	286.98	286.84	286.60
Min.	286.11	286.08	286.30	286.32	286.52	286.88	286.88	286.85	286.99	286.67	286.42	286.38

WATER YEAR 1960 : Max. 289.08 m. Min. 286.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1960 TO MARCH 31,1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.30	0.00	0.04	7.87	43	7.87	26	7.54	2.35	
2			0.28	0.00	0.06	8.62	24	6.88	135	6.55	2.05	
3			0.14	0.00	0.10	9.04	18	5.55	295	5.23	1.90	
4			0.08	0.00	0.14	11	13	5.89	68	3.94	1.90	
5			0.12	10	0.18	14	6.88	5.56	32	3.46	2.70	
6			2.74	11	0.28	57	5.80	5.56	22	3.22	3.22	
7			2.74	2.20	0.68	108	4.90	5.23	20	4.42	3.22	
8			5.23	1.75	1.90	45	4.42	4.90	16	6.55	3.46	
9			4.90	1.15	4.18	59	56	4.66	14	6.55	3.22	
10			2.74	0.68	4.90	26	40	4.42	11	5.56	2.74	
11			1.75	0.36	5.59	25	21	4.18	15	4.66	2.35	
12			0.36	0.16	7.21	32	17	3.70	13	4.18	1.60	
13			0.20	0.52	9.88	52	11	3.70	12	2.74	0.36	
14			0.16	0.20	13	27	8.20	5.23	12	1.90	0.44	
15			0.14	0.14	16	19	24	5.23	11	1.75	2.05	
16		0.04	0.12	0.12	18	100	40	4.90	11	1.60	1.60	
17		0.18	0.10	0.12	18	45	45	4.90	11	2.20	1.00	
18		0.44	0.10	0.12	18	18	20	5.89	10	1.60	0.76	
19		1.60	0.08	0.10	19	13	52	9.88	10	1.30	0.52	
20		2.05		0.10	39	8.62	45	11	9.83	1.30	0.36	
21		2.35		0.10	320	5.56	38	14	8.62	1.00	0.28	
22		2.35		0.08	39	4.90	50	12	8.62	0.92	0.16	
23		2.74		0.08	20	4.42	29	11	8.62	0.84	0.02	
24		3.70		0.08	25	22	17	10	8.62	0.92		
25		4.42		0.08	28	17	14	11	8.62	0.76		
26		4.90		0.06	21	11	11	12	8.20	0.84		
27		5.23		0.06	15	6.22	37	12	8.62	1.15		
28		2.98		0.04	9.88	11	38	13	8.62	1.60		
29		2.35		0.04	5.56	58	16	12	8.62	2.74		
30		1.60		0.02	6.22	72	11	11	8.20	2.50		
31		1.30		0.02	7.54		6.88		7.87	2.35		0.02
Total		38.23	23.28	29.38	673.34	897.25	768.17	234.13	847.11	91.87	38.30	0.22
Mean		1.22	0.77	0.93	21.7	29.9	24.8	7.80	27.3	2.97	1.36	0.01
Max.		5.23	5.23	11	320	108	56	14	295	7.54	3.46	0.20
Min.		0.00	0.00	0.00	0.04	4.42	4.42	3.70	7.87	0.76	0.00	0.00
Runoff		3.283	1.987	2.506	58.147	77.522	66.355	20.218	73.190	7.949	3.283	0.019

WATER YEAR 1960 : Max. 320 Min. 0.00 Mean 9.98 Annual Runoff 314.606 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 3	06.00	289.40	420				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Khan Creek at Mae Khan Bridge, Chiang Mai (P.23)

Location: Lat 18° - 37' - 31" N, Long 98° - 51' - 42" E, on left bank at downstream side of the bridge, on highway Chiang Mai - Hot, Amphoe San Pa Tong, Chiang Mai.

Drainage Area: 1,777 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +285.62 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.8

Location: On left bank at Mae Khan Bridge.
Elevation: +291.767 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 - 60
Rated by Float: -
Rated by Current Meter: 1955 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 60. No upstream state diversions for irrigation except those built by the local resident. No adjustment made for virgin flow.

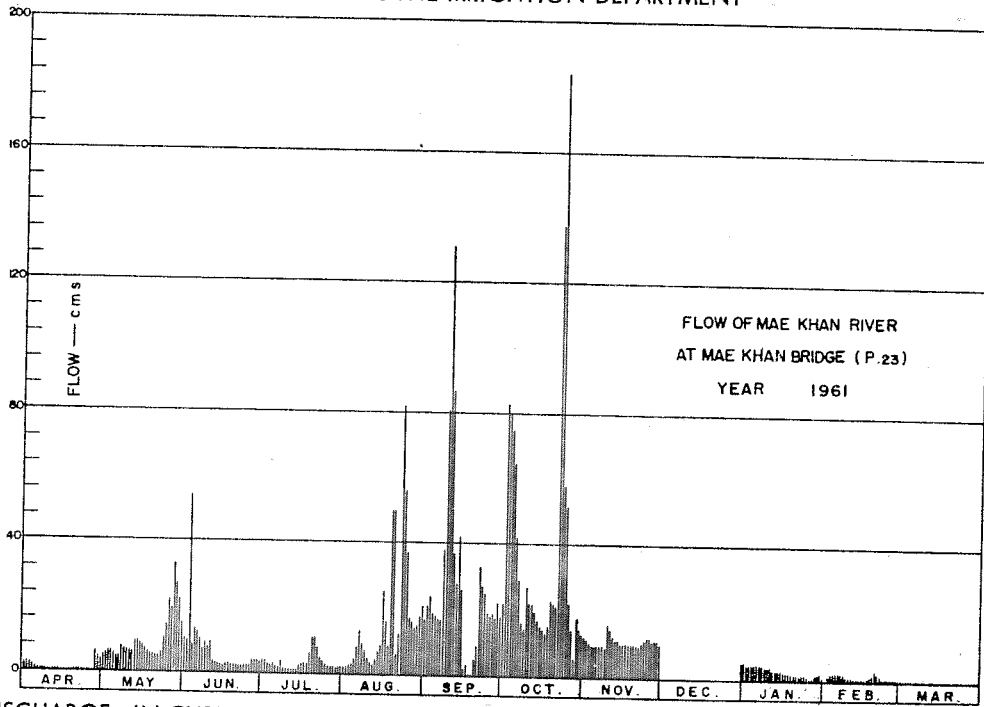
Remarks: No gage height record for Dec.1 - 31, and no flow for Mar. 17 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.72	286.89	287.08	286.72	286.72	287.28	287.42	287.14		286.89	286.42	286.49
2	.75	.92	.06	.82	.73	.39	288.38	.12		.85	.64	.49
3	.71	.94	286.98	.77	.75	.46	.34	.10		.86	.70	.48
4	.66	.95	287.00	.75	.77	.35	.28	.07		.86	.71	.50
5	.62	.92	.17	.77	.86	.32	.13	.08		.87	.73	.50
6	286.54	286.86	287.14	286.71	287.01	287.31	287.80	287.08		286.86	286.74	286.49
7	.48	.88	.10	.66	.18	.29	.57	.07		.86	.73	.48
8	.44	287.00	286.98	.81	.05	.25	.28	.06		.85	.69	.47
9	.42	286.97	.89	.64	286.98	288.24	.21	.04		.83	.61	.47
10	.40	.96	.83	.63	.88	.91	.52	.27		.82	.60	.47
11	286.40	286.95	286.90	286.63	286.80	288.43	287.41	287.21		286.81	286.60	286.46
12	.41	.94	.78	.62	.78	287.79	.41	.16		.79	.59	.45
13	.43	287.07	.76	.62	.85	.52	.35	.13		.76	.57	.45
14	.44	.07	.74	.61	.96	.80	.29	.12		.76	.56	.42
15	.43	.04	.73	.74	287.03	.51	.23	.10		.76	.55	.41
16	286.43	287.01	286.72	286.77	287.48	286.74	287.22	287.09		286.74	286.55	286.41
17	.41	286.97	.75	.79	.27	.80	.19	.09		.72	.58	.39
18	.40	.93	.76	.83	.03	287.49	.25	.08		.70	.61	.38
19	.41	.91	.74	.94	286.93	.41	.45	.08		.68	.63	.38
20	.42	.90	.74	287.12	.93	286.89	.41	.08		.67	.78	.37
21	286.43	286.88	286.72	287.11	286.92	286.85	287.39	287.07		286.67	286.72	286.35
22	.43	.87	.70	.01	287.15	287.63	288.93	.06		.66	.67	.35
23	.43	.92	.70	286.88	288.37	.52	289.36	.10		.66	.57	.34
24	.42	287.09	.72	.84	.02	.48	288.05	.11		.65	.55	.34
25	.42	.22	.73	.77	287.71	.36	287.96	.14		.62	.55	.35
26	286.41	287.39	286.74	286.71	287.31	287.32	287.43	287.14		286.57	286.52	286.35
27	.41	.36	.83	.70	.28	.36	.22	.13		.55	.52	.34
28	.94	.64	.84	.69	.21	.31	286.90	.13		.64	.51	.33
29	.86	.53	.82	.68	.23	.43	287.29	.11		.68		.33
30	.82	.41	.80	.70	.33	.30	.21	.10		.72		.32
31		.23		.72	.40		.16			.57		.30
Mean	286.52	287.04	286.85	286.77	287.10	287.46	287.61	287.11		286.74	286.59	286.41
Max.	286.94	287.64	287.17	287.12	288.37	288.91	289.36	287.27		286.89	286.78	286.50
Min.	286.40	286.86	286.70	286.61	286.72	286.74	286.90	287.04		286.55	286.42	286.30

WATER YEAR 1961 : Max. 289.36 m. Min. 286.30 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.08	4.82	9.82	3.38	2.08	16	22	12		4.82	0.04	0.18
2	2.50	5.50	9.24	3.56	2.22	21	83	11		4.10	1.20	0.18
3	1.94	6.00	7.00	2.78	2.50	24	80	10		4.28	1.80	0.16
4	1.40	6.25	7.50	2.50	2.78	19	75	9.53		4.28	1.94	0.20
5	1.00	5.50	13	2.78	4.28	18	64	9.82		4.46	2.22	0.20
6	0.44	4.28	12	1.94	7.79	17	42	9.82		4.28	2.36	0.18
7	0.16	4.64	10	1.40	13	17	29	9.53		4.28	2.22	0.16
8	0.08	7.50	7.00	3.38	8.95	15	16	9.24		4.10	1.70	0.14
9	0.04	6.75	4.82	1.20	7.00	72	14	8.66		3.74	0.90	0.14
10	0.00	6.50	3.74	1.10	4.64	131	27	16		3.56	0.80	0.14
11	0.00	6.25	5.00	1.10	3.20	87	22	14		3.38	0.80	0.12
12	0.02	6.00	2.92	1.00	2.92	41	22	12		3.06	0.74	0.10
13	0.06	9.53	2.64	1.00	4.10	27	19	11		2.64	0.62	0.10
14	0.08	9.53	2.36	0.90	6.50	42	17	11		2.64	0.56	0.04
15	0.06	8.66	2.22	2.36	8.39	26	15	10		2.64	0.50	0.02
16	0.06	7.79	2.08	2.78	25	2.36	14	10		2.36	0.50	0.02
17	0.02	6.75	2.50	3.06	16	3.20	13	10		2.08	0.68	
18		5.75	2.64	3.74	8.39	25	15	9.82		1.80	0.90	
19	0.02	5.25	2.36	6.00	5.75	22	23	9.82		1.60	1.10	
20	0.04	5.00	2.36	11	5.75	4.82	22	9.82		1.50	2.92	
21	0.06	4.64	2.08	11	5.50	9.10	21	9.53		1.50	2.08	
22	0.06	4.46	1.80	7.79	12	33	133	9.24		1.40	1.50	
23	0.06	5.50	1.80	4.64	82	27	184	10		1.40	0.62	
24	0.04	10	2.08	3.92	56	25	58	11		1.30	0.55	
25	0.04	14	2.22	2.78	37	19	52	12		1.00	0.55	
26	0.02	21	2.36	1.94	17	18	23	12		0.62	0.32	
27	0.02	19	3.74	1.80	16	19	14	11		0.52	0.32	
28	6.00	33	3.92	1.70	14	17	5.00	11		1.20	0.26	
29	4.25	27	3.56	1.60	15	22	17	11		1.60		
30	3.56	22	3.20	1.80	18	17	14	10		2.08		
31		15	2.08	2.08	21		12			0.62		
Total	24.14	303.85	137.96	98.01	434.74	831.48	1,167.00	319.83		78.84	30.70	2.08
Mean	0.80	9.81	4.60	3.16	14	28	38	11		2.54	1.10	0.07
Max.	2.50	33	13	11	82	131	184	16		4.82	2.92	0.20
Min.	0.00	4.28	1.80	0.90	2.08	2.36	5.00	8.66		0.52	0.04	0.00
Runoff - mcm.	2.074	26.266	11.923	8.468	37.450	71.798	100.829	27.648		6.826	2.765	0.180

WATER YEAR 1961 : Max. 184 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 22	18.00	289.92	221				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1962
PING RIVER BASIN**

Mae Khan Creek at Mae Khan Bridge, Chiang Mai (P.23)

Location: Lat 18° - 37' - 31" N, Long 98° - 51' - 42" E, on left bank at downstream side of the bridge, on highway Chiang Mai - Hot, Amphoe San Pa Tong, Chiang Mai.

Drainage Area: 1,777 sq.km. referred to AMS Map 1:50,000.

Type of gage: Staff gage.

Zero Gage at Bottom at: +285.62 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.8

Location: On left bank at Mae Khan Bridge.
Elevation: +291.767 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 - 60
Rated by Float: -
Rated by Current Meter: 1955 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

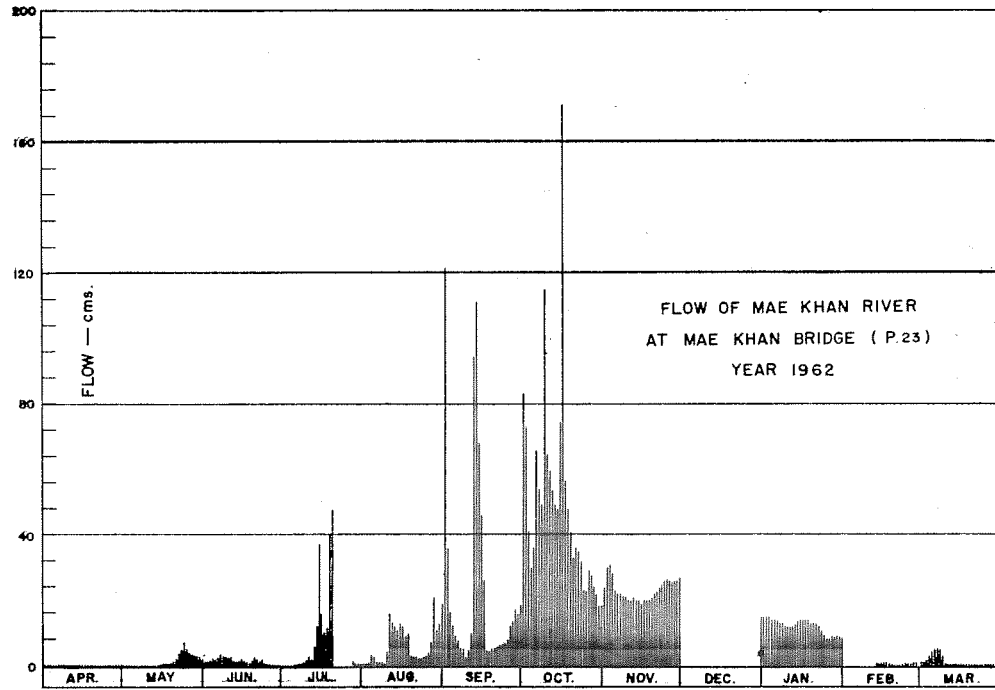
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 60. No upstream state diversions for irrigation except those built by the local resident. No adjustment made for virgin flow.

Remarks: No gage height record for Jul.21 - 27, Dec.1 - 31, Feb.1 - 12. Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.31	286.34	286.67	286.39	286.58	288.81	288.38	287.46		287.24		286.62
2	.31	.33	.65	.38	.58	287.70	.25	.58		.23		.62
3	.31	.32	.70	.43	.60		287.74	.60		.23		.69
4	.30	.30	.72	.50	.79	.17	.59	.54		.22		.79
5	.30	.29	.70	.53	.75	.07	.69	.45		.21		.85
6	286.29	286.28	286.75	286.54	286.62	286.99	288.15	287.43		287.20		286.90
7	.29	.29	.81	.56	.62	.91	287.99	.42		.18		.91
8	.28	.31	.79	.60	.61	.89	.91	.40		.17		.89
9	.29	.32	.77	.63	.59	.76	288.75	.39		.16		.77
10	.29	.33	.76	.71	.89	.90	.14	.38		.16		.59
11	286.30	286.32	286.74	286.74	287.26	287.10	288.08	287.38		287.14		286.51
12	.29	.35	.68	.80	.19	288.53	287.98	.39		.15		.49
13	.29	.38	.66	.94	.16	.71	.91	.38		.18	286.59	.48
14	.29	.41	.65	287.15	.13	.18	.90	.38		.21	.60	.47
15	.30	.48	.72	.72	.18	287.87	288.26	.36		.21	.60	.46
16	286.29	286.59	286.66	287.26	286.15	287.50	289.27	287.37		287.20	286.61	286.46
17	.28	.58	.58	.10	.06	286.87	288.03	.37		.20	.60	.46
18	.28	.53	.56	.15	286.93	.85	287.89	.38		.20	.58	.46
19	.27	.58	.71	.77	.79	.90	.78	.39		.19	.56	.45
20	.26	.65	.75	.90	.77	.91	.64	.41		.19	.53	.44
21	286.30	286.73	286.71		286.75	286.93	287.70	287.44		287.18	286.52	286.43
22	.43	.82	.66		.74	.95	.68	.46		.15	.53	.43
23	.40	.90	.72		.73	.97	.62	.48		.12	.55	.43
24	.39	.98	.59		.76	.97	.44	.50		.07	.56	.43
25	.40	.89	.54		.80	287.02	.44	.51		.02	.57	.43
26	286.42	286.84	286.48		286.85	287.15	287.56	287.50		287.04	286.58	286.43
27	.41	.80	.42		287.01	.41	.54	.49		.06	.60	.42
28	.39	.79	.42	286.62	.39	.31	.47	.50		.05	.60	.43
29	.37	.76	.43	.58	.13	.26	.42	.51		.06		.42
30	.35	.74	.40	.58	.17	.35	.32	.52		.05		.41
31		.70		.58	.35		.35			.04		.41
Mean	286.32	286.55	286.65		286.90	287.31	287.86	287.44		287.15		286.55
Max.	286.43	286.98	286.81		287.39	288.81	289.27	287.60		287.24		286.91
Min.	286.26	286.28	286.40		286.58	286.76	287.32	287.36		287.02		286.41

WATER YEAR 1962 : Max. 289.27 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.50		0.68	121	83	24		15		1.00
2			1.30		0.68	36	73	30		15		1.00
3			1.80	0.06	0.80	17	41	31		15		1.70
4			2.08	0.20	3.06	13	30	28		14		3.06
5			1.80	0.38	2.50	9.53	36	23		14		4.10
6			2.50	0.44	1.00	7.25	66	22		14		5.00
7			3.38	0.56	1.00	5.25	54	22		13		5.25
8			3.06	0.80	0.90	4.82	49	21		13		4.82
9			2.78	1.10	0.74	2.64	115	21		12		2.78
10			2.64	1.94	4.82	5.00	65	20		12		0.74
11			2.36	2.36	16	10	61	20		12		0.26
12			1.60	3.20	13	94	54	21		12		0.18
13			1.40	6.00	12	111	49	20		13	0.74	0.16
14		0.02	1.30	12	11	68	48	20		14	0.80	0.14
15		0.16	2.08	37	13	46	74	19		14	0.80	0.12
16		0.74	1.40	17	12	26	172	20		14	0.90	0.12
17		0.68	0.68	10	9.24	4.46	57	20		14	0.80	0.12
18		0.38	0.56	12	5.75	4.10	48	20		14	0.68	0.12
19		0.68	1.94	40	3.06	5.00	41	21		13	0.56	0.10
20		1.30	2.50	48	2.78	5.25	33	22		13	0.38	0.08
21		2.22	1.94		2.50	5.75	36	23		13	0.32	0.06
22	0.06	3.56	1.40		2.36	6.25	35	24		12	0.38	0.06
23		5.00	2.08		2.22	6.75	32	25		11	0.50	0.06
24		7.00	0.74		2.64	6.75	23	26		9.53	0.56	0.06
25		4.82	0.44		3.20	8.08	23	26		8.08	0.62	0.06
26	0.04	3.92	0.16		4.10	12	29	26		8.66	0.68	0.06
27	0.02	3.20	0.04		7.79	22	28	25		9.24	0.80	0.04
28		3.06	0.04	1.00	21	17	24	26		8.95	0.80	0.06
29		2.64	0.06	0.68	11	16	22	26		9.24		0.04
30		2.36		0.68	13	19	18	27		8.95		0.02
31		1.80		0.68	19		19			8.66		0.02
Total	0.12	43.54	45.56		202.82	714.88	1,538	699		377.31		31.39
Mean	0.00	1.39	1.50		6.54	23.8	49.6	23.3		12.2		1.00
Max.	0.06	7.00	3.38		21	121	172	31		15		5.25
Min.	0.00	0.00	0.00		0.68	2.64	18	19		8.08		0.02
Runoff - mcm.	0.010	3.715	3.888		17.523	61.765	132.883	60.394		32.659		2.678

WATER YEAR 1962 : Max. 172 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.16	06.00	289.39	187				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PING RIVER BASIN

Mae Klang Creek at Mae Klang Bridge, Chiang Mai (P.24)

Location: Lat 18° - 23' - 15" N, Long 98° - 40' - 51" E, on left bank at upstream side of the bridge, on highway Chiang Mai - Hot, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 616 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic means of 5 readings.

Period of Available Gage Records: 1955 to date.

Rating Operation:

Period of Rating: 1955 to date.
Rated by Float: -
Rated by Current Meter: 1955 to date.

Stability of Channel Regimes: Unstable, periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

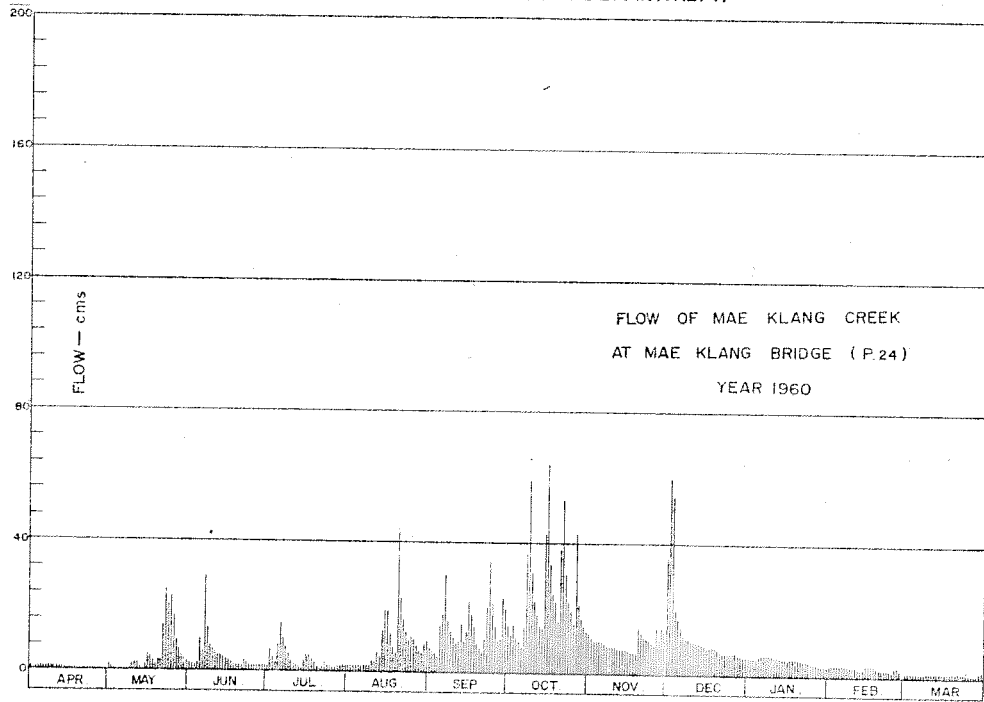
General Description: Records fair. The data presented is made by discharge measurements during 1960. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.29	0.35	0.41	0.42	0.40	0.63	0.86	0.80	1.51	0.56	0.42	0.40
2	.28	.24	.40	.61	.40	.61	.79	.76	2.11	.55	.43	.41
3	.28	.23	.40	.52	.37	.58	.88	.73	1.45	.54	.43	.40
4	.27	.22	.45	.44	.38	.53	.77	.71	.03	.53	.43	.39
5	.26	.21	.72	.70	.38	.90	.70	.71	0.95	.58	.43	.38
6	0.25	0.20	0.58	0.89	0.38	0.97	0.63	0.70	0.85	0.59	0.42	0.39
7	.24	.19	1.31	.68	.39	1.33	.92	.69	.79	.59	.41	.40
8	.30	.18	0.78	.63	.39	0.93	1.52	.67	.77	.59	.40	.41
9	.29	.21	.64	.54	.39	.80	2.09	.65	.74	.58	.39	.41
10	.28	.32	.60	.49	.48	.75	1.30	.65	.72	.58	.38	.41
11	0.27	0.35	0.58	0.41	0.48	0.67	1.09	0.65	0.71	0.56	0.37	0.39
12	.25	.35	.54	.38	.59	.72	0.94	.64	.70	.55	.35	.36
13	.23	.24	.54	.37	.53	.89	.85	.64	.69	.54	.34	.36
14	.22	.21	.50	.35	.85	.70	.84	.63	.68	.54	.33	.37
15	.21	.37	.47	.52	1.01	.82	1.54	.63	.67	.53	.44	.38
16	0.20	0.53	0.45	0.55	1.01	1.12	2.24	0.62	0.66	0.53	0.42	0.39
17	.19	.48	.42	.54	0.80	0.95	1.46	.61	.66	.53	.42	.40
18	.19	.39	.40	.46	.62	.84	.16	.70	.65	.55	.40	.40
19	.20	.35	.39	.42	.57	.68	.12	.68	.65	.54	.37	.40
20	.19	.42	.38	.34	1.69	.64	.92	.86	.63	.53	.35	.39
21	0.18	0.45	0.37	0.30	1.22	0.61	1.56	0.80	0.61	0.53	0.34	0.38
22	.18	.86	.47	.40	0.88	.90	.94	.77	.60	.52	.33	.37
23	.17	1.21	.42	.45	.80	1.13	.33	.75	.60	.51	.32	.36
24	.19	.06	.40	.39	.73	.45	.12	.70	.60	.50	.31	.35
25	.19	.15	.38	.37	.76	.01	0.97	.69	.60	.49	.30	.35
26	0.18	0.90	0.38	0.35	0.71	0.84	0.87	0.68	0.60	0.47	0.38	0.34
27	.18	.70	.37	.35	.64	.73	1.69	.84	.59	.46	.39	.34
28	.17	.60	.36	.39	.60	.75	.08	.74	.58	.45	.40	.33
29	.17	.53	.39	.38	.58	1.13	0.94	.86	.57	.44		.47
30	.16	.48	.39	.39	.67	.02	.86	.83	.56	.43		.46
31		.43		.40	.71		.82		.56	.42		.45
Mean	0.22	0.46	0.50	0.40	0.66	0.85	1.15	0.71	0.78	0.53	0.38	0.39
Max.	0.30	1.21	1.31	0.89	1.69	1.45	2.24	0.86	2.11	0.59	0.44	0.47
Min.	0.16	0.18	0.36	0.30	0.37	0.53	0.63	0.61	0.56	0.42	0.30	0.33

WATER YEAR 1960 : Max. 2.24 m. Min. 0.16 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.39	2.25	2.48	2.66	2.30	7.53	14	12	36	5.60	3.35	1.20
2	1.27	0.81	2.30	6.91	2.30	6.91	12	11	60	5.35	3.55	1.30
3	1.27	0.70	2.30	4.60	1.85	6.10	15	10	34	5.10	3.53	1.20
4	1.16	0.58	3.20	3.02	2.00	4.85	11	10	19	4.85	3.53	1.15
5	1.04	0.47	16	9.70	2.00	15	9.70	10	17	6.10	3.53	1.05
6	0.95	0.35	6.10	15	2.00	18	7.53	9.70	14	6.35	3.35	1.15
7	0.81	0.25	29	9.08	2.15	30	16	9.39	12	6.35	3.17	1.20
8	1.50	0.10	12	7.53	2.15	16	37	8.77	11	6.35	3.00	1.30
9	1.39	0.47	7.84	5.10	2.15	12	59	8.15	11	6.10	2.85	1.30
10	1.27	1.80	6.60	3.92	3.74	11	29	8.15	10	6.10	2.70	1.30
11	1.16	2.25	6.10	2.48	3.74	8.77	21	8.15	10	5.60	2.55	1.15
12	0.93	2.25	5.10	2.00	6.35	10	17	7.84	9.70	5.35	2.25	0.90
13	0.70	0.81	5.10	1.85	4.85	15	14	7.84	6.39	5.10	2.10	0.90
14	0.58	0.47	4.10	1.55	14	9.70	14	7.53	9.68	5.10	1.95	0.98
15	0.47	2.55	3.56	4.60	19	13	38	7.53	8.77	4.85	3.70	1.05
16	0.35	5.31	3.20	5.35	19	22	64	7.22	8.46	4.85	3.35	1.15
17	0.25	4.40	2.66	5.10	12	17	34	6.91	8.46	4.85	3.35	1.20
18	0.25	2.85	2.30	3.38	7.22	14	24	9.70	8.15	5.35	3.60	1.20
19	0.35	2.25	2.15	2.66	9.85	9.08	22	9.68	8.15	5.10	2.55	1.20
20	0.25	3.35	2.00	1.40	44	7.84	16	14	7.53	4.85	2.25	1.15
21	0.10	3.20	1.85	0.80	26	6.91	39	12	6.91	4.85	2.10	1.05
22	0.10	14	3.56	2.30	15	15	53	11	6.60	4.60	1.95	0.98
23	0.05	25	2.66	3.20	12	23	30	11	6.60	4.35	1.85	0.90
24	0.25	20	2.30	2.15	10	34	22	9.70	6.60	4.10	1.65	0.80
25	0.25	23	2.00	1.85	11	19	18	9.39	6.60	3.92	1.50	0.80
26	0.10	15	2.00	1.55	10	14	15	9.08	6.60	3.56	2.70	0.75
27	0.10	9.70	1.85	1.55	7.84	10	43	14	6.35	3.38	2.85	0.75
28	0.05	6.60	1.70	2.15	6.60	11	21	11	6.10	3.20	1.20	0.70
29	0.05	4.85	2.15	2.00	6.10	23	17	14	5.85	3.02	1.85	1.85
30	0.00	3.74	2.15	2.15	8.77	19	14	13	5.60	2.84	1.75	1.75
31		2.84	2.30	2.30	10	13	13		5.60	2.66	1.65	1.65
Total	18.37	161.60	140.31	119.89	281.96	428.69	759.23	297.13	378.10	149.73	75.34	35.01
Mean	0.60	5.22	4.57	3.87	9.10	14.3	24.5	9.90	12.2	4.84	2.68	1.13
Max.	1.50	25	29	15	44	34	64	14	60	6.35	3.53	1.85
Min.	0.00	0.10	1.70	0.80	1.85	4.85	7.53	6.91	5.60	2.66	1.20	0.70
Runoff - mcm.	1.587	13.962	12.123	10.358	24.361	37.039	65.597	25.672	32.668	12.937	6.509	3.025

WATER YEAR 1960 : Max. 64 Min. 0.00 Mean 7.79 Annual Runoff 245.839 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.16	06.00	2.30	69				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PING RIVER BASIN

Mae Klang Creek at Mae Klang Bridge, Chiang Mai (P.24)

Location: Lat 18° - 23' - 15" N, Long 98° - 40' - 51" E, on left bank at upstream side of the bridge, on highway Chiang Mai - Hot, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 616 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark:

Location:

Elevation:

Gage Reading Frequency: 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 to date.

Rated by float: -

Rated by Current Meter: 1955 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

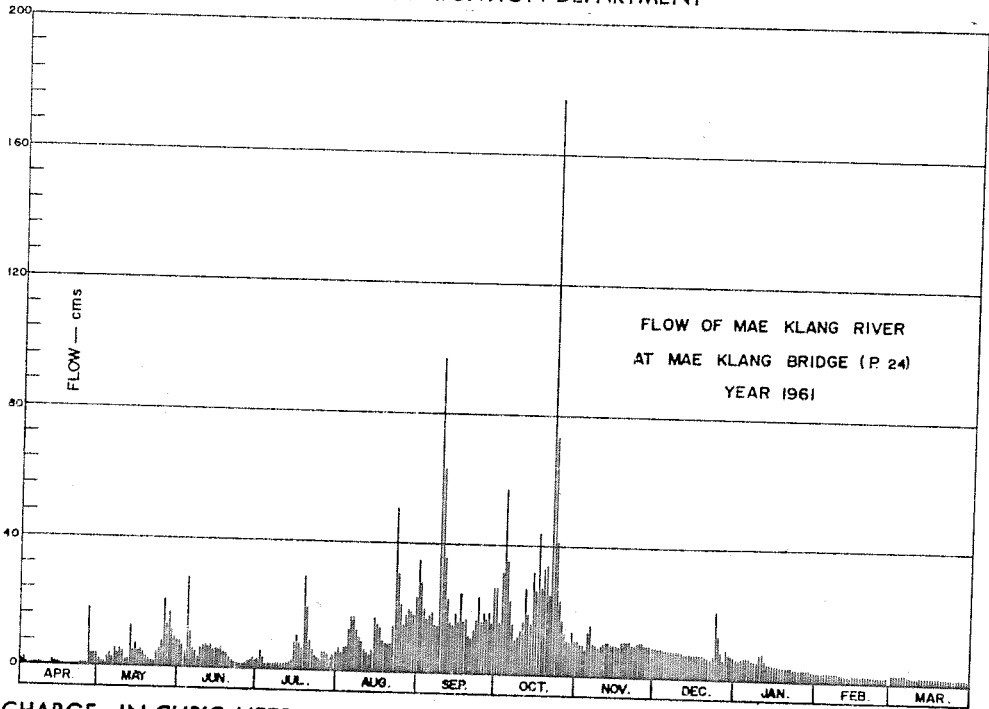
General Description: Records good. The data presented is made by discharge measurements during 1961. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.45	0.47	0.75	0.58	0.74	1.31	1.33	0.84	0.78	0.66	0.51	0.49
2	.51	.43	.71	.70	.69	.25	.17	.82	.78	.67	.50	.48
3	.43	.46	.64	.60	.76	.10	.45	.80	.78	.69	.50	.48
4	.38	.52	1.29	.52	.80	.10	.83	.75	.77	.69	.50	.49
5	.35	.49	0.89	.50	.99	.11	.44	.92	.75	.69	.50	.49
6	0.35	0.45	0.70	0.49	1.13	1.11	1.18	0.86	0.73	0.69	0.49	0.48
7	.35	.59	.67	.47	.10	0.99	.04	.80	.74	.67	.49	.47
8	.35	.54	.62	.51	0.93	.99	0.91	.79	.74	.65	.49	.45
9	.34	.64	.75	.50	.85	2.41	.89	.87	.74	.63	.48	.44
10	.33	.60	.75	.49	.81	1.92	1.00	.84	.73	.63	.47	.45
11	0.33	0.46	0.77	0.51	0.73	1.45	1.09	1.01	0.72	.73	0.46	0.45
12	.32	.47	.73	.57	.74	.23	.27	0.90	.69	.63	.45	.45
13	.42	.89	.76	.53	.73	.11	.06	.84	.69	.60	.44	.43
14	.40	.61	.69	.59	.73	.15	0.94	.80	.70	.60	.43	.45
15	.37	.69	.73	.84	1.18	.33	1.22	.80	.70	.59	.45	.44
16	0.33	0.59	0.67	0.90	1.08	1.12	1.04	0.78	0.70	0.59	0.46	0.44
17	.31	.62	.71	.79	0.99	.21	.32	.76	.70	.58	.46	.43
18	.31	.59	.64	.71	.88	.07	.07	.80	.70	.57	.45	.42
19	.30	.55	.66	1.31	.84	.22	.21	.82	.69	.57	.45	.42
20	.34	.49	.60	.10	.82	.05	.26	.81	.68	.58	.45	.41
21	0.31	0.46	0.57	0.82	0.82	0.97	1.13	0.81	0.67	0.57	0.45	0.42
22	.30	.45	.54	.70	1.00	1.03	3.29	.80	.66	.56	.44	.41
23	.30	.70	.52	.62	.77	.05	2.05	.80	.71	.55	.44	.41
24	.35	.70	.50	.59	.37	.19	1.52	.81	1.12	.53	.44	.41
25	.34	.75	.49	.58	.13	.98	1.17	.82	0.91	.53	.43	.41
26	0.37	1.16	0.53	0.68	0.99	1.05	1.03	0.83	0.74	0.53	0.43	0.42
27	1.00	0.98	.56	.68	1.04	0.99	0.97	.80	.64	.52	.43	.42
28	0.51	1.10	.58	.62	.09	1.03	0.90	.79	.76	.52	.47	.41
29	.54	0.94	.63	.60	.05	0.94	0.91	.80	.69	.52	.41	.41
30	.52	.83	.58	.63	.02	1.19	1.02	.79	.68	.51	.40	.40
31		.78		.68	.14		0.89		.67	.51		.39
Mean	0.39	0.64	0.67	0.66	0.96	1.19	1.24	0.82	0.73	0.60	0.46	0.44
Max.	1.00	1.16	1.29	1.31	1.77	2.41	3.29	1.01	1.12	0.73	0.51	0.49
Min.	0.30	0.43	0.49	0.47	0.69	0.94	0.89	0.75	0.64	0.51	0.43	0.39

WATER YEAR 1961 : Max. 3.29 m. Min. 0.30 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.80	2.55	8.75	3.40	7.50	35	27	11	9.50	6.25	3.00	2.85
2	2.70	1.65	6.75	6.25	6.00	28	16	10	9.25	6.25	2.55	2.70
3	1.40	1.65	5.25	4.00	7.50	20	32	10	9.25	6.50	2.70	2.70
4	1.00	3.40	28	1.80	8.00	17	57	8.75	9.00	6.75	2.85	2.85
5	0.80	4.20	11	2.25	13	18	35	14	8.75	7.00	2.85	2.85
6	0.90	3.00	6.25	2.10	17	19	23	16	8.25	6.75	2.85	2.70
7	1.00	5.75	5.25	1.80	17	15	16	10	8.50	5.75	2.85	2.55
8	1.00	4.20	3.60	2.40	13	15	11	9.75	8.50	5.75	2.85	2.25
9	0.80	6.00	6.75	2.25	11	97	12	9.00	8.75	5.50	2.55	2.10
10	0.70	4.80	7.00	2.10	9.75	63	14	10	8.50	8.25	2.40	2.25
11	0.70	2.40	7.75	2.40	7.00	36	17	17	8.25	6.25	2.25	2.25
12	0.60	2.70	6.75	2.60	6.25	23	27	11	7.50	5.75	2.10	2.25
13	1.80	13	7.25	2.70	5.50	16	19	11	7.50	5.00	1.95	1.95
14	1.50	5.50	5.75	3.60	7.00	15	16	10	7.75	5.00	1.80	2.25
15	1.20	7.75	6.75	9.25	17	19	32	10	7.50	4.80	2.10	2.10
16	0.80	5.25	5.75	11	15	16	26	10	7.50	4.80	2.25	2.10
17	0.50	5.75	7.00	8.50	14	25	44	9.50	7.50	4.60	2.25	1.95
18	0.50	4.80	5.25	6.75	10	16	27	11	7.50	4.40	2.10	1.80
19	0.40	3.80	5.50	29	9.25	17	33	11	7.25	4.40	2.10	1.80
20	0.70	2.70	3.80	20	9.00	12	34	11	7.00	4.60	2.10	1.65
21	0.70	2.25	3.00	9.50	9.50	11	25	11	6.50	4.20	2.10	1.80
22	0.50	2.10	2.25	6.75	15	14	177	10	6.25	4.00	1.95	1.65
23	0.60	5.00	2.10	5.00	51	17	73	10	7.50	3.80	1.95	1.65
24	1.20	6.25	1.95	4.20	31	24	41	11	21	3.40	1.95	1.65
25	1.00	8.50	1.95	3.80	21	16	23	11	13	3.20	1.80	1.65
26	1.40	21	2.25	5.75	15	19	17	11	8.50	3.40	1.80	1.80
27	18	13	2.85	6.00	18	17	13	10	6.00	3.40	1.80	1.80
28	4.00	17	3.00	5.25	20	19	11	9.75	9.25	3.40	2.10	1.80
29	4.40	12	3.80	4.60	19	16	11	9.75	7.50	3.40	2.10	1.65
30	4.00	9.25	3.00	5.50	18	27	14	9.50	7.25	3.00	1.65	1.65
31	4.00	8.25	3.00	6.00	23	27	11	7.00	7.00	3.00	1.50	1.40
Total	56.60	195.45	176.30	186.50	450.25	702	934	323.00	263.25	154.55	63.90	64.10
Mean	1.90	6.29	5.87	6.00	14.5	23.4	30.1	10.8	8.48	4.98	2.28	2.06
Max.	18	21	28	29	51	97	177	17	21	8.25	3.00	2.85
Min.	0.40	1.65	1.95	1.80	5.50	11	11	8.75	6.00	3.00	1.80	1.40
Runoff - ccm.	4.890	16.887	15.232	16.114	38.902	60.653	80.698	27.907	22.745	13.353	5.521	5.538

WATER YEAR 1961 : Max. 177 Min. 0.40 Mean 9.78 Annual Runoff 308.439 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 22	06.00	3.63	219				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PING RIVER BASIN

Mae Klang Creek at Mae Klang Bridge, Chiang Mai (P.24)

Location: Lat 18° - 23' - 15" N, Long 98° - 40' - 51" E, on left bank at upstream side of the bridge, on highway Chiang Mai - Hot, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 616 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 to date.
Rated by Float: -
Rated by Current Meter: 1955 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

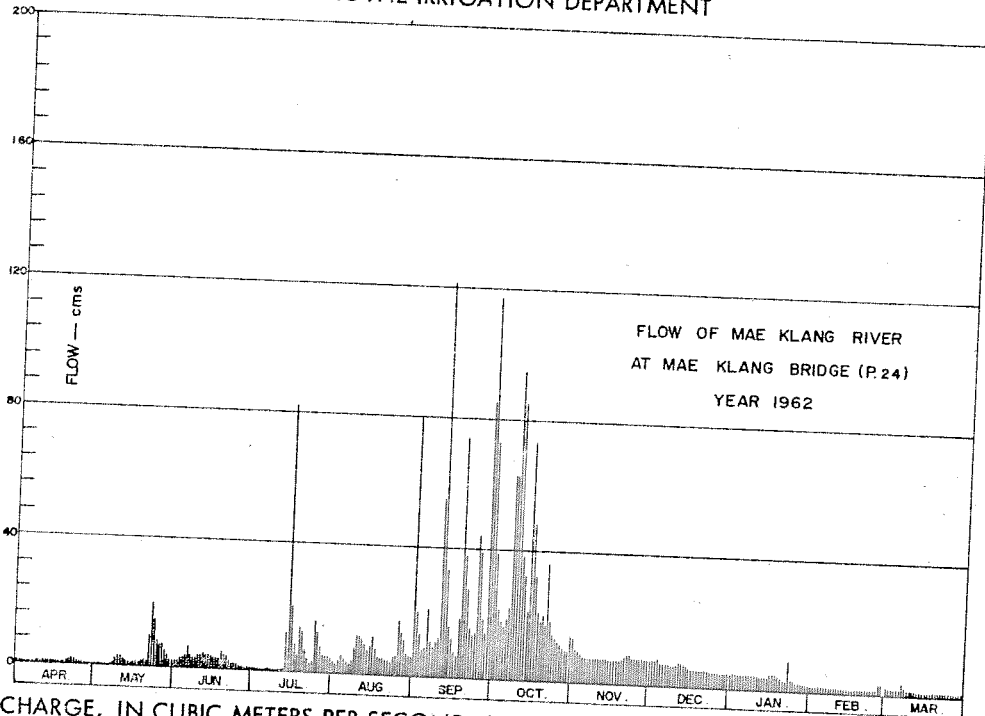
General Description: Records good. The data presented is made by discharge measurements during 1962. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.36	0.34	0.50	0.38	0.54	2.09	1.99	0.89	0.74	0.58	0.44	0.47
2	.35	.34	.50	.37	.53	1.10	.46	.82	.73	.60	.43	.46
3	.35	.34	.54	.36	.58	0.90	.14	.79	.73	.59	.46	.45
4	.35	.33	.54	.35	.66	.76	.03	.76	.77	.59	.44	.44
5	.34	.33	.59	.34	.58	.79	.00	.74	.71	.59	.44	.44
6	0.34	0.33	0.72	0.34	0.55	1.11	1.07	0.74	0.70	0.58	0.44	0.44
7	.33	.40	.58	.40	.54	0.84	.14	.74	.70	.58	.43	.55
8	.38	.48	.55	.37	.59	.78	.84	.74	.70	.58	.43	.48
9	.39	.51	.54	.35	.77	.85	.85	.73	.69	.59	.43	.44
10	.40	.54	.59	.34	.88	.88	2.29	.73	.69	.59	.43	.44
11	0.40	0.54	0.60	0.34	0.88	1.73	2.15	0.73	0.70	0.59	0.42	0.44
12	.40	.50	.62	.33	.83	2.61	1.44	.73	.73	.57	.42	.43
13	.40	.44	.58	.35	.78	1.36	.34	.73	.71	.57	.42	.40
14	.39	.43	.61	1.14	.73	1.00	.12	.73	.70	.57	.41	.37
15	.38	.43	.59	2.11	.79	.87	.98	.72	.67	.56	.40	.37
16	0.37	0.44	0.56	1.09	0.87	0.75	1.61	0.72	0.66	0.61	0.40	0.37
17	.36	.44	.55	0.76	.75	.71	.33	.72	.63	.61	.40	.37
18	.36	.42	.59	.65	.63	1.06	.11	.72	.62	.61	.40	.37
19	.43	.48	.66	.94	.63	2.00	.04	.72	.63	.59	.40	.37
20	.40	.50	.60	.86	.65	1.45	.10	.74	.63	.56	.40	.37
21	0.49	0.49	0.59	0.68	0.60	1.24	1.01	0.78	0.63	0.52	0.40	0.37
22	.48	.85	.52	.59	.61	0.95	.41	.78	.63	.51	.40	.37
23	.45	1.10	.48	.53	.60	.89	.03	.78	.62	.52	.40	.37
24	.40	0.96	.49	.57	.66	.92	.94	.75	.61	.52	.40	.37
25	.38	.75	.48	1.00	.69	1.55	.90	.74	.61	.51	.40	.37
26	0.37	0.72	0.42	0.87	1.01	1.46	0.87	0.74	0.60	0.48	0.40	0.37
27	.36	.73	.40	.74	0.90	.05	.83	.74	.60	.49	.52	.36
28	.35	.65	.40	.65	.85	0.94	.81	.74	.60	.48	.52	.36
29	.34	.56	.40	.64	.71	2.16	.80	.74	.58	.47	.40	.36
30	.34	.48	.38	.65	.69	.56	.80	.73	.58	.46	.40	.37
31		.49		.60	.60		.92		.60	.44		.37
Mean	0.38	0.53	0.54	0.63	0.70	11.24	1.27	0.75	0.66	0.55	0.42	0.40
Max.	0.49	1.10	0.72	2.11	1.01	2.61	2.29	0.89	0.77	0.61	0.52	0.55
Min.	0.33	0.33	0.38	0.33	0.53	0.71	0.80	0.72	0.58	0.44	0.40	0.36

WATER YEAR 1962 : Max. 2.61 m. Min. 0.33 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	0.70	2.50	0.90	3.30	80	73	13	7.70	4.10	1.60	2.05
2	0.75	0.70	2.50	0.85	3.10	20	39	10	7.40	4.50	1.45	1.90
3	0.75	0.70	3.30	0.80	4.10	13	22	9.20	7.40	4.30	1.90	1.75
4	0.75	0.65	3.30	0.75	5.70	8.30	18	8.30	8.60	4.30	1.60	1.60
5	0.70	0.65	4.30	0.70	4.10	9.20	16	7.70	6.80	4.30	1.60	1.60
6	0.70	0.65	7.10	0.70	3.50	21	19	7.70	6.50	4.10	1.60	1.60
7	0.65	1.00	4.10	1.00	3.30	11	22	7.70	6.50	4.10	1.45	3.50
8	0.90	2.20	3.50	0.85	4.30	8.90	63	7.70	6.50	4.10	1.45	2.20
9	0.95	2.70	3.30	0.75	8.60	11	63	7.40	6.30	4.30	1.45	1.60
10	1.00	3.30	4.30	0.70	12	12	95	7.40	6.30	4.30	1.45	1.60
11	1.00	3.30	4.50	0.70	12	55	85	7.40	6.50	4.30	1.30	1.60
12	1.00	2.50	4.90	0.65	11	121	38	7.40	7.40	3.90	1.30	1.45
13	1.00	1.60	4.10	0.75	8.90	33	32	7.40	6.80	3.90	1.30	1.00
14	0.95	1.45	4.70	22	7.40	16	21	7.40	6.50	3.90	1.15	0.85
15	0.90	1.45	4.30	62	9.20	12	73	7.10	5.90	3.70	1.00	0.85
16	0.85	1.60	3.70	20	12	8.00	48	7.10	5.70	4.70	1.00	0.85
17	0.80	1.60	3.50	8.30	8.00	6.80	32	7.10	5.10	4.70	1.00	0.85
18	0.80	1.30	4.30	5.50	5.10	19	21	7.10	4.90	4.70	1.00	0.85
19	1.45	2.20	5.70	14	5.10	74	18	7.10	5.10	4.30	1.00	0.85
20	1.00	2.50	4.50	12	5.50	38	20	7.70	5.10	3.70	1.00	0.85
21	2.35	2.35	4.30	6.10	4.50	27	17	8.90	5.10	2.90	1.00	0.85
22	2.20	11	2.90	4.30	4.70	15	36	8.90	5.10	2.70	1.00	0.85
23	1.75	20	2.20	3.10	4.50	13	18	8.90	4.90	2.90	1.00	0.85
24	1.00	15	2.35	3.90	5.70	14	14	8.60	4.70	2.90	1.00	0.85
25	0.90	8.00	2.20	16	6.30	44	13	7.70	4.70	2.70	1.00	0.85
26	0.85	7.10	1.30	12	17	39	12	7.70	4.50	2.20	1.00	0.85
27	0.80	7.40	1.00	7.70	13	18	11	7.70	4.50	2.35	2.90	0.80
28	0.75	5.50	1.00	5.50	11	14	9.85	7.70	4.10	2.20	2.90	0.80
29	0.70	3.70	1.00	5.30	6.80	85	9.50	7.70	4.10	2.05	1.90	0.80
30	0.70	2.20	0.90	5.50	6.30	117	9.50	7.40	4.10	1.90	1.60	0.85
31		2.35	4.50	5.70	5.70		14		4.50	1.60		0.85
Total	29.80	117.35	101.55	247.80	221.70	963.20	981.85	239.50	179.30	110.60	38.40	38.60
Mean	1.00	3.77	3.38	8.00	7.16	32.1	31.7	7.97	5.77	3.58	1.36	1.24
Max.	2.35	20	7.10	82	17	121	95	13	8.60	4.70	2.90	3.50
Min.	0.65	0.65	0.90	0.65	3.10	6.80	9.50	7.10	4.10	1.60	1.00	0.80
Runoff - mcm.	2.575	10.139	8.774	21.410	19.155	83.220	84.832	20.693	15.491	9.556	3.318	3.335

WATER YEAR 1962 : Max. 121 Min. 0.65 Mean 8.96 Annual Runoff 282.498 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 12	12.00	2.85	141				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1960
WANG RIVER BASIN**

Mae Wang River at Ratsada Phisek Bridge, Lampang (W.1)

Location: Lat 18°-17' - 28" N, Long 99°-30' - 14" E, on left bank 100 meters downstream from Ratsada Phisek Bridge, Amphoe Muang, Lampang.

Drainage Area: 3,480 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +228.41 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. 20796

Location: On left bank 200 meters north of the slaughter house.
Elevation: +233.738 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: 1901 to date.

Rating Operation:

Period of Rating: 1955 - 61
Rated by Float: -
Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, shifting adjustment and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: No overbank flow.

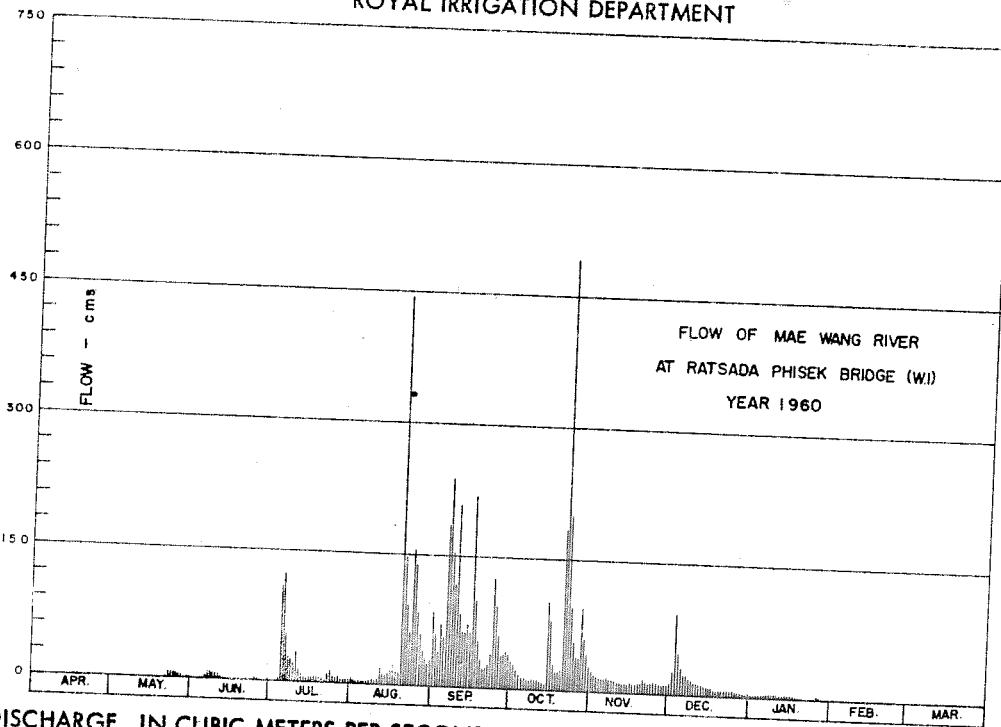
General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	228.58	228.50	228.65	228.65	228.97	230.52	229.88	229.51	229.17	228.86	228.76	228.68
2	.58	.51	.77	.67	.93	.16	.73	.42	.53	.84	.73	.67
3	.58	.55	.71	.72	.90	229.95	.52	.37	230.43	.86	.72	.65
4	.55	.58	.76	.94	.88	230.40	.41	.52	229.92	.88	.73	.64
5	.55	.53	.72	230.75	.85	.18	.34	.29	.69	.88	.72	.63
6	228.55	228.54	229.00	230.88	228.85	231.36	229.28	229.28	229.51	228.89	228.72	228.62
7	.60	.53	.26	.19	.84	.66	.24	.29	.43	.94	.72	.62
8	.58	.50	.19	229.86	.86	.06	.16	.25	.38	.93	.75	.65
9	.59	.48	.10	.69	.92	230.73	.26	.24	.51	.93	.74	.66
10	.58	.47	.08	.61	.88	231.56	.23	.21	.22	.91	.77	.64
11	228.57	228.50	228.90	229.88	229.05	230.52	229.17	229.16	229.21	228.88	228.74	228.56
12	.55	.53	.81	.49	.44	.21	.11	.15	.19	.89	.73	.64
13	.54	.51	.76	.19	.26	.20	.11	.15	.14	.89	.74	.63
14	.56	.63	.74	.06	.16	.39	.10	.12	.13	.90	.72	.66
15	.56	.72	.78	228.98	.26	.15	230.40	.12	.10	.94	.72	.65
16	228.54	228.68	228.84	229.05	229.41	231.61	230.24	229.13	229.08	228.84	228.71	228.66
17	.55	.60	.76	.07	.61	230.58	229.80	.12	.08	.81	.71	.64
18	.57	.74	.77	.14	.41	.07	.56	.11	.06	.79	.72	.63
19	.53	.70	.74	.04	.35	229.81	.54	.11	.04	.79	.71	.63
20	.53	.67	.71	228.99	232.53	.65	.67	.10	.02	.80	.70	.61
21	228.54	228.71	228.71	228.96	231.23	229.53	230.59	229.19	229.03	228.85	228.69	228.61
22	.56	.90	.82	.94	230.63	.66	232.74	.19	.03	.83	.70	.62
23	.54	229.13	.71	229.15	.20	.83	231.46	.13	.03	.78	.71	.60
24	.55	.16	.70	.37	231.15	230.74	230.55	.13	.02	.77	.69	.62
25	.53	.07	.69	.09	.11	.49	.18	.15	.01	.83	.68	.62
26	228.51	229.09	228.73	229.04	230.53	230.15	229.87	229.10	228.96	228.88	228.68	228.61
27	.49	.00	.68	.08	.09	229.95	.85	.13	.96	.86	.67	.62
28	.50	228.93	.67	228.94	229.87	.96	230.45	.11	.94	.81	.67	.61
29	.51	.85	.67	.95	.73	230.02	.02	.10	.94	.81	.66	.66
30	.53	.86	.66	.97	.63	.00	229.83	.11	.93	.80	.65	.65
31		.86	.95	.95	.65	.63	.63	.92	.92	.79		
Mean	228.55	228.71	228.80	229.27	229.65	230.57	229.84	229.19	229.21	228.85	228.72	228.64
Max.	228.60	229.16	229.26	230.88	232.53	231.66	232.74	229.51	230.43	228.94	228.76	228.68
Min.	228.49	228.47	228.65	228.65	228.84	229.53	229.10	229.10	228.92	228.77	228.67	228.60

WATER YEAR 1961 : Max. 232.74 m. Min. 228.47 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.21	0.00	1.70	0.64	6.50	86	33	24	14	3.76	1.80	0.48
2	0.27	0.00	1.45	0.92	4.74	59	28	20	28	3.22	0.96	0.48
3	0.27	0.90	1.25	1.30	4.12	39	22	18	93	3.45	0.72	0.33
4	0.18	0.15	1.50	4.30	3.76	72	17	16	48	3.94	1.20	0.27
5	0.12	0.00	1.25	110	3.22	57	14	16	31	3.58	0.88	0.30
6	0.09	0.03	4.52	124	3.04	186	14	16	24	3.58	0.64	0.36
7	0.24	0.00	10	56	3.04	238	12	17	23	5.62	0.68	0.30
8	0.18	0.00	9.54	30	3.40	153	11	16	20	5.62	1.00	0.33
9	0.15	0.00	7.38	24	6.06	119	13	16	18	5.84	0.96	0.33
10	0.15	0.00	7.16	22	3.76	208	12	14	15	5.18	0.84	0.27
11	0.15	0.06	3.76	35	7.74	84	11	12	15	4.52	1.05	0.36
12	0.00	0.03	2.40	15	20	63	10	12	14	4.12	1.00	0.27
13	0.00	0.00	2.00	10	13	63	9.82	12	13	4.12	1.00	0.18
14	0.12	0.45	1.60	6.28	11	73	8.04	11	12	4.52	0.80	0.30
15	0.12	0.88	2.00	4.52	14	64	101	11	11	5.18	0.84	0.33
16	0.06	0.84	2.68	7.16	17	219	66	12	9.26	3.04	0.76	0.42
17	0.09	0.24	2.00	7.16	24	101	30	11	9.54	2.00	0.84	0.27
18	0.15	1.00	2.10	8.26	16	53	23	11	8.48	2.00	0.84	0.21
19	0.06	0.84	1.50	6.28	15	34	22	12	7.82	2.20	0.68	0.21
20	0.03	0.76	1.20	6.28	444	23	26	12	7.38	2.10	0.54	0.15
21	0.03	0.96	1.30	4.30	147	22	184	16	8.26	2.86	0.51	0.15
22	0.15	2.20	2.30	4.30	94	29	491	15	7.82	2.50	0.68	0.18
23	0.06	7.64	1.45	9.54	62	40	201	12	8.04	1.90	0.76	0.12
24	0.09	8.06	0.96	16	156	125	95	13	8.04	2.10	0.48	0.18
25	0.03	6.50	4.12	7.60	156	95	56	14	7.08	2.20	0.36	0.24
26	0.00	6.28	2.10	7.60	84	62	40	14	6.06	4.12	0.39	0.18
27	0.00	5.18	1.00	8.48	58	38	39	12	5.62	4.12	0.36	0.21
28	0.03	3.40	0.92	5.40	40	40	95	11	5.62	2.86	0.39	0.18
29	0.03	2.50	0.88	5.18	30	44	60	12	4.52	2.50	0.36	0.18
30	0.03	3.04	4.74	5.62	26	39	43	12	4.52	2.20	0.36	0.18
31	0.03	2.86		5.62	30		29		4.96	1.40	0.36	0.48
Total	3.09	53.99	86.76	558.74	1,506.38	2,528	1,815.86	420	492.02	106.35	21.96	9.17
Mean	0.10	1.84	2.89	18.0	48.5	84.26	58.6	13.5	15.9	3.43	0.78	0.29
Max.	0.27	8.06	10	124	444	238	491	24	93	5.84	1.80	0.48
Min.	0.00	0.00	0.88	0.64	3.04	22	8.04	11	4.52	1.40	0.36	0.12
Runoff - BCM.	0.267	4.665	7.496	48.275	130.151	218.419	156.890	36.288	42.510	9.188	1.897	0.792

WATER YEAR 1960 : Max. 491 Min. 0.00 Mean 20.8 Annual Runoff 656.840 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.22	12.00	232.87	542				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
WANG RIVER BASIN

Mae Wang River at Ratsada Phisek Bridge, Lampang (W.1)

Location: Lat 18°-17'-28" N, Long 99°-30'-14" E, on left bank 100 meters downstream from Ratsada Phisek Bridge, Amphoe Muang, Lampang.

Drainage Area: 3,480 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +228.41 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. 20796

Location: On left bank 700 meters north of the slaughter house.
Elevation: +233.758 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic means of 5 readings.

Period of Available Gage Records: 1901 to date

Rating Operation:

Period of Rating: 1955 - 61
Rated by Float: -
Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

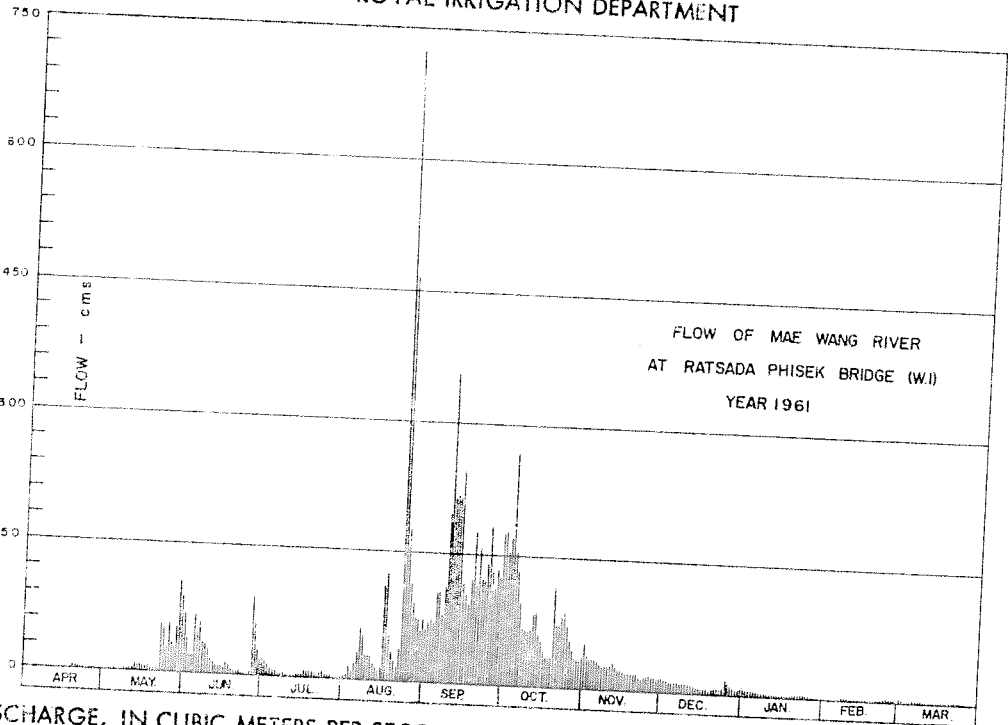
General Description: Records good. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	228.65	228.66	229.97	229.41	228.92	230.10	231.18	229.85	229.35	229.11	228.90	228.93
2	.64	.65	.68	.52	.99	.17	230.99	.65	.32	.10	.89	.91
3	.61	.62	.42	.29	229.32	.20	231.12	.63	.36	.07	.88	.84
4	.63	.77	.38	.17	.12	.10	.77	.61	.28	.09	.88	.76
5	.63	.74	230.10	.03	.40	.46	230.99	.61	.27	.08	.88	.80
6	228.64	228.67	229.79	228.99	229.61	230.40	230.79	229.60	229.30	229.07	228.87	228.89
7	.64	.75	.93	.96	230.02	.10	.47	.57	.30	.06	.90	.85
8	.64	.70	.58	.93	229.96	.53	.12	.52	.29	.04	.94	.85
9	.63	.80	.45	.95	.67	231.30	.02	.54	.29	.03	.94	.85
10	.62	.89	.41	.88	.57	232.25	229.96	.55	.28	.02	.91	.83
11	228.59	228.86	229.27	228.85	229.54	231.48	230.07	229.56	229.26	229.03	228.87	228.79
12	.59	.95	.23	.87	.31	.57	.29	.65	.19	.03	.87	.81
13	.61	229.20	.10	.86	.21	230.70	.25	.57	.16	.01	.89	.83
14	.61	.06	.10	.91	.12	.93	.02	.54	.15	228.99	.86	.83
15	.60	.18	.16	.91	.29	.67	229.94	.53	.14	.98	.87	.83
16	228.60	229.03	229.22	228.87	230.57	230.44	229.85	229.52	229.13	228.98	228.96	228.84
17	.60	.02	.24	229.05	.81	.34	.77	.50	.12	.97	.94	.81
18	.56	.06	.16	228.99	229.99	.63	.71	.50	.12	.96	.92	.80
19	229.00	228.94	.04	229.01	.71	231.17	.77	.49	.10	.99	.90	.80
20	.01	.88	228.96	.11	.51	230.60	230.53	.48	.10	.97	.89	.79
21	228.94	228.90	228.95	229.04	229.36	231.02	230.08	229.48	229.18	228.96	228.87	228.80
22	.82	.83	.98	228.99	.73	230.71	.14	.45	.14	.98	.91	.84
23	.82	229.85	.86	229.06	233.79	.70	.27	.40	.14	.98	.94	.81
24	.62	.74	.84	.11	232.77	.85	.29	.43	.17	.99	.94	.81
25	.76	.39	.85	228.89	231.79	231.14	.14	.42	.42	.97	.94	.78
26	228.77	229.97	228.96	228.95	230.76	230.70	230.10	229.44	229.35	228.94	228.94	228.75
27	.76	.72	230.41	.91	.57	.61	229.90	.41	.24	.95	.94	.74
28	.74	.57	.05	.86	.33	.77	.80	.39	.18	.95	.93	.74
29	.74	.90	229.68	.86	.29	.57	.74	.38	.14	.91	.91	.74
30	.68	230.46	.41	.85	.19	231.18	.71	.36	.13	.91	.91	.74
31		.25		.84	.17		.76		.13	.91		.74
Mean	228.69	229.16	229.40	228.99	230.04	230.74	230.24	229.52	229.22	229.00	228.91	228.82
Max.	229.01	230.46	230.41	229.41	233.79	232.25	231.77	229.85	229.42	229.11	228.96	228.93
Min.	228.56	228.62	228.83	228.84	228.92	230.10	229.71	229.36	229.10	228.91	228.86	228.74

WATER YEAR 1961 : Max. 233.79 m. Min. 228.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.45	0.45	69	20	5.54	63	178	52	17	8.16	2.92	4.66
2	0.30	0.45	40	16	7.04	71	154	39	15	7.60	2.74	4.22
3	0.20	0.55	22	15	17	75	170	37	17	6.48	2.56	2.92
4	0.35	1.04	22	10	9.75	69	266	35	13	6.76	2.56	1.72
5	0.30	1.72	69	7.04	20	105	154	35	12	6.20	2.38	2.20
6	0.35	0.60	48	7.72	32	106	151	33	13	5.98	2.20	3.82
7	0.30	1.36	59	4.88	60	79	97	30	13	5.76	2.74	3.10
8	0.30	0.70	36	3.82	53	111	66	26	12	5.32	3.46	3.10
9	0.25	3.10	35	4.66	30	195	55	28	12	5.10	3.46	3.10
10	0.25	3.82	28	3.46	29	355	54	28	12	4.88	2.74	2.74
11	0.05	3.26	18	2.74	29	212	65	28	11	4.88	2.08	2.08
12	0.10	4.88	14	2.92	20	216	84	32	10	4.88	2.08	2.38
13	0.25	11	10	2.56	15	114	86	27	10	4.44	2.38	2.74
14	0.25	6.76	9.75	3.64	11	144	61	25	9.25	4.00	1.84	2.74
15	0.15	9.00	10	3.64	17	121	53	23	9.00	4.00	1.84	2.74
16	0.15	6.20	10	3.28	109	103	42	22	8.44	3.64	2.08	2.74
17	0.15	6.76	15	7.60	124	94	36	22	7.44	3.64	3.46	2.92
18	0.10	7.60	11	6.48	55	122	35	21	7.32	3.46	3.10	2.38
19	5.54	4.44	7.04	6.76	34	175	39	21	7.04	3.28	2.74	2.20
20	5.32	3.82	5.10	8.72	24	114	116	20	5.98	3.82	2.56	2.20
21	3.28	3.10	4.60	7.32	17	158	72	20	6.20	3.64	2.38	2.08
22	2.74	4.66	6.20	5.98	38	122	73	18	8.72	3.64	2.08	2.20
23	2.20	57	2.74	7.88	708	120	82	15	7.60	4.22	2.56	2.92
24	0.25	52	2.56	9.00	464	140	87	18	7.88	4.44	3.10	2.38
25	1.60	29	2.20	4.44	175	182	69	17	9.00	4.66	3.28	2.38
26	1.72	57	5.54	5.76	114	131	54	18	4.22	4.22	3.46	1.96
27	1.60	35	92	4.00	92	112	45	19	15	3.46	3.46	1.60
28	1.12	29	61	2.92	75	134	36	18	11	3.10	3.46	1.48
29	0.90	53	30	2.74	74	125	35	18	9.00	3.10	3.46	1.48
30	0.70	107	19	2.56	61	174	33	16	6.76	2.74	3.10	1.48
31		88		2.38	73		37	16	7.32	2.74		1.48
Total	31.22	593.29	763.73	195.50	2,592.33	4,042	2,565	757	327.11	141.16	76.96	76.88
Mean	1.04	19.1	25.4	6.31	83.6	135	82.7	25.2	10.5	4.55	2.75	2.48
Max.	5.54	107	92	20	708	355	266	52	18	8.16	3.46	4.66
Min.	0.05	0.45	2.20	2.38	5.54	63	33	16	6.20	2.92	1.84	1.48
Runoff	2.697	51.260	65.986	16.691	223.977	349.223	221.616	65.405	28.262	12.196	6.649	6.642

WATER YEAR 1961 : Max. 708 Min. 0.05 Mean 33.3 Annual Runoff 1,050.812 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23	18.00	234.17	808				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
WANG RIVER BASIN**

Mae Wang River at Ratsada Phisek Bridge, Lampang (W.1)

Location: Lat 18°-17' - 28" N, Long 99°-30' - 14" E, on left bank 100 meters downstream from Ratsada Phisek Bridge, Amphoe Muang, Lampang.

Drainage Area: 3,460 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +228.41 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. 20796

Location: On left bank 700 meters north of the slaughter house.
Elevation: +233.738 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: 1901 to date.

Rating Operation:

Period of Rating: 1955 - 61
Rated by Float: -
Rated by Current Meter: 1955 - 61

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

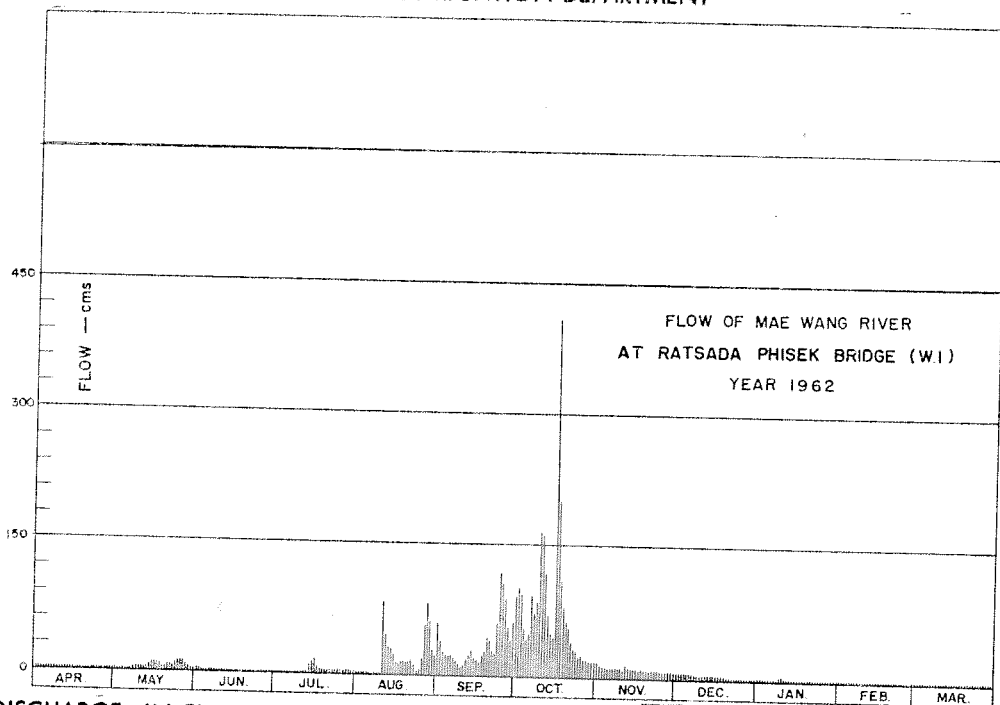
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1961. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	228.73	228.75	228.91	228.76	228.84	230.01	230.41	229.35	229.04	228.75	228.72	228.70
2	.73	.73	.93	.75	.84	229.73	.50	.26	.04	.76	.72	.70
3	.74	.72	.84	.70	.83	.54	.42	.24	.03	.76	.72	.71
4	.73	.72	.80	.68	.80	.45	229.98	.23	.01	.76	.69	.75
5	.74	.72	.79	.71	.78	.43	.77	.20	.00	.77	.69	.71
6	228.73	228.79	228.78	228.70	228.78	229.45	229.87	229.19	229.01	228.75	228.69	228.75
7	.71	.83	.79	.70	.79	.39	230.41	.20	228.98	.76	.71	.71
8	.71	.96	.78	.70	.60	.33	.14	.21	.96	.76	.77	.72
9	.71	.96	.78	.70	.79	.21	.31	.20	.96	.88	.70	.73
10	.80	.94	.78	.70	.83	.14	231.10	.19	.94	.92	.73	.73
11	228.71	228.89	228.76	228.68	230.29	229.21	231.06	229.16	228.92	228.84	228.74	228.72
12	.70	.92	.76	.70	229.84	.37	230.66	.30	.95	.76	.73	.71
13	.71	.95	.72	.66	.60	.92	.15	.17	.94	.75	.73	.74
14	.72	229.06	.72	229.16	.58	.59	229.87	.15	.93	.75	.71	.72
15	.73	.16	.73	.25	.48	.42	.82	.17	.91	.75	.70	.71
16	228.72	229.12	228.74	229.35	229.28	229.35	232.51	229.16	228.93	228.74	228.71	228.70
17	.72	.10	.74	.68	.24	.30	231.35	.15	.90	.75	.71	.69
18	.70	.08	.75	228.98	.31	.46	230.55	.15	.89	.75	.70	.68
19	.69	.01	.73	.90	.29	.55	.27	.16	.87	.73	.71	.68
20	.70	228.95	.74	.86	.28	.80	.05	.10	.83	.75	.71	.68
21	228.70	229.05	228.73	228.89	229.30	229.76	229.96	229.09	228.80	228.76	228.71	228.70
22	.70	.04	.71	.89	.31	.56	.76	.11	.79	.76	.71	.70
23	.69	228.99	.71	.86	.17	.52	.64	.14	.80	.75	.71	.70
24	.68	229.20	.71	.85	228.95	230.00	.58	.10	.80	.74	.71	.70
25	.70	.22	.71	.89	229.00	.67	.46	.09	.76	.74	.70	.69
26	228.68	229.25	228.70	228.88	229.37	230.56	229.47	229.09	228.75	228.74	228.70	228.70
27	.70	.21	.68	.90	.98	.37	.41	.07	.76	.74	.69	.71
28	.70	.06	.68	.88	230.30	229.95	.41	.07	.75	.73	.70	.70
29	.71	228.96	.70	.86	.05	.76	.35	.07	.75	.73	.70	.70
30	.72	.87	.71	.85	229.59	230.02	.34	.05	.76	.73	.70	.70
31		.83		.84	.46		.34		.76	.72		.69
Mean	228.71	228.96	228.75	228.85	229.28	229.66	230.13	229.16	228.89	228.76	228.71	228.71
Max.	228.80	229.25	228.93	229.35	230.30	230.67	232.51	229.35	229.04	228.92	228.77	228.75
Min.	228.68	228.72	228.68	228.66	228.78	229.14	229.34	229.05	228.75	228.72	228.69	228.68

WATER YEAR 1962 : Max. 232.51 m. Min. 228.66 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.36	1.60	4.22	1.72	2.92	60	93	18	7.32	1.60	1.24	1.00
2	1.36	1.36	4.66	1.60	2.92	39	101	14	7.32	1.72	1.24	1.00
3	1.48	1.24	2.92	1.00	2.74	28	94	13	7.04	1.72	1.24	1.12
4	1.36	1.24	2.20	0.90	2.20	23	57	13	6.48	1.72	0.95	1.60
5	1.48	1.24	2.08	1.12	1.96	22	42	11	6.20	1.84	0.95	1.12
6	1.36	2.08	1.96	1.00	1.96	23	49	11	6.48	1.60	0.95	1.36
7	1.12	2.74	2.08	1.00	2.08	19	93	11	5.76	1.72	1.12	1.12
8	1.12	1.72	1.96	1.00	2.20	17	70	12	5.32	1.72	1.84	1.24
9	1.12	5.32	1.96	1.00	2.08	12	84	11	5.32	3.64	1.00	1.36
10	2.20	4.88	1.96	1.00	2.74	10	166	11	4.88	4.44	1.36	1.36
11	1.12	3.82	1.72	0.95	82	12	161	10	4.44	2.92	1.48	1.24
12	1.00	4.44	1.72	1.00	47	19	117	15	5.10	1.72	1.36	1.12
13	1.12	5.10	1.24	0.80	31	53	71	11	4.88	1.60	1.36	1.48
14	1.24	7.88	1.24	10	30	30	49	10	4.66	1.60	1.12	1.24
15	1.36	10	1.36	13	24	21	45	11	4.22	1.60	1.00	1.12
16	1.24	9.50	1.48	18	15	18	408	10	4.66	1.48	1.12	1.00
17	1.24	9.00	1.48	8.44	13	15	200	10	4.00	1.60	1.12	0.95
18	1.00	8.44	1.60	5.76	16	23	106	10	3.82	1.60	1.00	0.90
19	0.95	3.48	1.36	4.00	15	28	81	10	3.46	1.36	1.12	0.90
20	1.00	5.10	1.48	3.28	15	44	63	9.00	2.74	1.60	1.12	0.90
21	1.00	7.60	1.36	3.82	15	41	56	8.72	2.20	1.72	1.12	1.00
22	1.00	7.32	1.12	3.82	16	29	41	9.25	2.08	1.72	1.12	1.00
23	0.95	5.98	1.12	3.28	11	27	33	10	2.20	1.60	1.12	1.00
24	0.90	11	1.12	3.10	5.10	59	30	9.00	2.20	1.48	1.12	1.00
25	1.00	12	1.12	3.82	6.20	118	23	8.72	1.72	1.48	1.00	0.95
26	0.90	13	1.00	3.64	19	107	24	8.72	1.60	1.48	1.00	1.00
27	1.00	12	0.90	4.00	57	89	20	8.16	1.72	1.48	0.95	1.12
28	1.00	7.88	0.90	3.64	83	55	20	8.16	1.60	1.36	1.00	1.00
29	1.12	5.32	1.00	3.28	63	41	18	8.16	1.60	1.36	1.00	1.00
30	1.24	3.46	1.12	3.10	30	61	17	7.60	1.72	1.36	1.00	1.00
31		2.74		2.92	23		17		1.72	1.24		0.95
Total	35	178.48	51	114.99	640	1,143	2,449	317.49	124.46	55.68	32.12	34.15
Mean	1.18	5.76	1.71	3.71	20.6	38	79	10.6	4.01	1.78	1.15	1.10
Max.	2.20	13	4.66	18	83	118	408	18	7.32	4.44	1.84	1.60
Min.	0.90	1.24	0.90	0.80	1.96	10	17	7.60	1.60	1.24	0.95	0.90
Runoff - mm.	3.053	15.421	4.444	9.935	55.305	98.755	211.594	27.431	10.753	4.759	2.775	2.950

WATER YEAR 1962 : Max. 408 Min. 0.80 Mean 14.2 Annual Runoff 447,176 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 16	12.00	232.71	453				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
WANG RIVER BASIN

Mae Wang River at Wang Khrai, Tak (W.4)

Location: Lat 17°-12' - 58" N, Long 99°-04' - 42" E, on right bank 200 meters upstream from the bridge at Ban Wang Khrai, 8 kilometers from Phahon Yothin Highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,407 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.31 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the fence near the gage site.
Elevation: +137.182 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: 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 due to its stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods of no gage height record. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

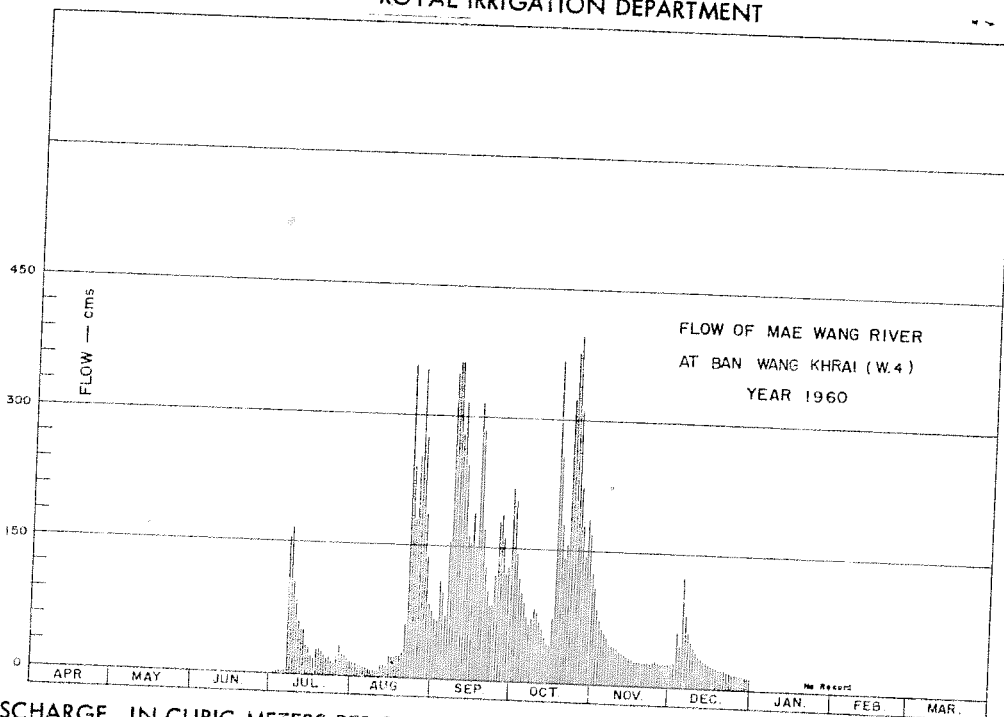
Remarks: No gage height record for Apr. 1 - Jun. 30 and Jan.1 - Mar.31.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				132.14	132.70	133.77	135.56	134.42	132.95			
2				.10	.57	.73	134.89	.07	.98			
3				.11	.53	134.46	.53	133.88	133.68			
4				.18	.52	.27	.29	.70	.39			
5				.20	.50	133.85	.15	.60	134.65			
6				132.21	132.45	135.03	133.89	133.51	133.99			
7				135.02	.42	136.75	.72	.40	.67			
8				.15	.41	.84	.88	.33	.48			
9				134.37	.40	.84	134.05	.32	.33			
10				.06	.38	.23	133.99	.26	.25			
11				133.65	132.37	136.51	133.80	133.18	133.15			
12				.45	.60	135.93	.68	.17	.09			
13				.47	.57	.12	.48	.12	.04			
14				.10	.55	.02	.34	.05	133.00			
15				.01	.87	.39	.29	.06	132.96			
16				132.82	132.83	134.96	133.87	133.02	132.91			
17				.73	.84	136.51	136.87	132.97	.87			
18				135.00	.88	.05	.04	.97	.87			
19				132.98	.90	135.18	135.28	.96	.82			
20				.96	.98	134.66	134.86	.95	.80			
21				132.81	133.66	134.29	135.05	132.94	132.78			
22				.73	136.80	.04	136.57	.94	.74			
23				.79	135.95	.15	.94	.95	.69			
24				.61	.30	.59	137.08	.99	.68			
25				.59	136.02	135.31	136.46	.99	.67			
26				132.83	136.78	135.40	135.74	132.95	132.66			
27				133.12	.19	.06	.28	.93	.65			
28				132.86	135.36	134.59	134.88	.93	.64			
29				.87	134.81	.71	135.37	.92	.62			
30				.77	.04	135.71	.18	.94	.59			
31				.67	133.90		134.66		.59			
Mean				133.01	133.58	135.16	134.86	133.21	133.04			
Max.				135.15	136.80	136.84	137.08	134.42	134.65			
Min.				132.10	132.37	133.73	133.29	132.92	132.59			

WATER YEAR 1960 : Max. 137.08 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				1.80	17	67	206	109	26			
2				1.00	13	65	146	85	28			
3				1.20	11	112	117	74	62			
4				2.60	11	99	100	65	47			
5				2.80	10	72	91	58	126			
6												
7				3.20	9.00	157	74	55	80			
8				157	8.10	350	65	47	62			
9				168	7.80	363	74	44	51			
10				106	7.50	363	84	43	44			
				85	7.00	280	80	40	40			
11				60								
12				50	6.75	317	69	37	35			
13				51	13	244	62	36	32			
14				33	11	165	51	34	30			
15				29	23	157	44	31	28			
16						190	42	31	27			
17				21	22	152	73	29	25			
18				18	22	317	367	27	23			
19				28	24	258	257	27	22			
20				28	24	171	180	27	21			
				27	28	127	143	26	20			
21				21	61	100	159	26	20			
22				18	357	84	325	26	18			
23				20	244	89	377	26	17			
24				14	181	122	397	28	16			
25				13	254	182	311	28	16			
26												
27				22	354	190	224	26	16			
28				34	275	160	180	26	15			
29				23	187	122	145	26	15			
30				23	139	151	188	25	14			
31				19	84	220	171	26	13			
				16	75		127		13			
Total				1,096.60	2,499.15	5,426	4,929	1,183	1,002			
Mean				35.4	80.6	181	159	39.4	32.3			
Max.				168	357	363	397	109	126			
Min.				1.00	6.75	65	42	25	13			
Runoff				94.746	215.926	468.806	425.866	102.211	86.573			

WATER YEAR 1960 : Max. 397 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 24	18.00	137.11	401				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
WANG RIVER BASIN

Mae Wang River at Wang Khrai, Tak (W.4)

Location: Lat 17°- 12' - 58" N, Long 99°- 04' - 42" E, on right bank 200 meters upstream from the bridge at Ban Wang Khrai, 8 kilometers from Amphoe Sam Ngao and 6 kilometers from Phahon Yothin Highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,407 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.31 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the fence near the gage site.

Elevation: +137.182 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: 1952 to date.

Rated by Float: -

Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods of no gage height record. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

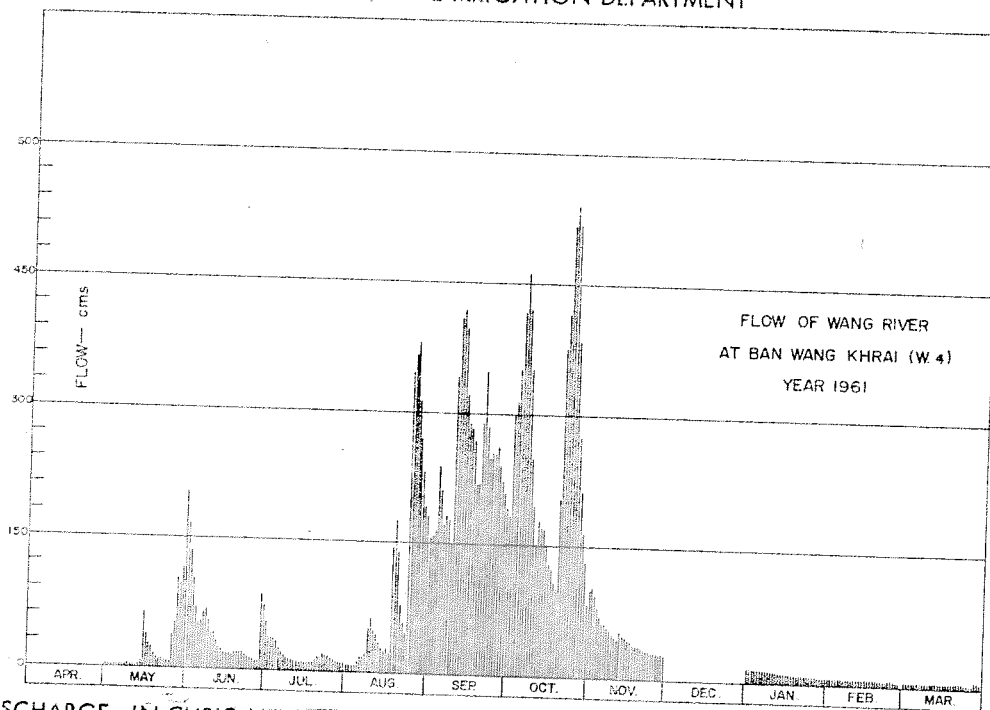
Remarks: No gage height record for Apr.1 - 30 and Dec.1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		132.20	135.04	133.56	132.48	134.93	135.20	134.56		132.74	132.45	132.32
2		.18	134.69	.26	.48	.97	136.24	.46		.72	.45	.32
3		.16	.51	.23	.46	135.04	.35	.31		.71	.45	.31
4		.17	133.94	.23	.44	.43	.26	.07		.69	.44	.31
5		.19	.54	.09	.61	.46	.97	133.93		.68	.44	.31
6		132.17	133.55	132.99	132.80	135.14	137.13	133.83		132.68	132.43	132.30
7		.16	.75	.88	.77	.20	136.98	.78		.68	.43	.30
8		.16	.81	.79	.93	.14	.62	.73		.68	.42	.30
9		.25	.57	.71	133.49	134.91	135.81	.66		.66	.42	.24
10		.16	.29	.67	.71	136.76	.32	.58		.65	.42	.24
11		132.15	133.21	132.63	133.47	136.90	135.04	133.53		132.64	132.42	132.26
12		.18	.11	.59	.26	.97	.15	.50		.63	.42	.27
13		.36	.98	.55	.16	.88	.07	.49		.62	.41	.26
14		.43	.91	.53	.06	.32	.05	.56		.59	.40	.26
15		133.84	.82	.54	132.91	.02	134.87	.53		.57	.39	.25
16		133.34	132.79	132.54	133.03	136.10	134.62	133.47		132.56	132.38	132.25
17		132.96	.80	.52	132.89	135.98	.55	.44		.55	.38	.25
18		.90	.83	.52	134.89	.64	.34	.38		.54	.37	.24
19		.69	.84	.54	135.13	.55	.23	.36		.53	.35	.23
20		.60	.85	.63	134.81	136.12	135.51	.35		.52	.34	.22
21		132.59	132.84	132.78	133.88	136.55	136.77	133.31		132.52	132.34	132.21
22		.49	.85	.72	.61	.09	137.00	.28		.52	.33	.21
23		.44	.73	.87	.41	135.81	.25	.25		.51	.33	.20
24		.41	.68	.84	136.76	.87	.45	.23		.51	.35	.19
25		.38	.62	.77	.94	.95	.31	.20		.49	.35	.18
26		133.33	132.58	132.72	137.00	135.92	136.81	133.19		132.48	132.33	132.17
27		.55	.55	.67	136.35	.73	.31	.17		.47	.32	.17
28		134.30	.53	.59	135.80	.55	135.64	.16		.45	.32	.37
29		.20	134.06	.56	.63	.44	.19	.16		.45		.33
30		.50	133.89	.55	.20	.35	134.85	.14		.45		.25
31		135.39		.51	.50		.70			.45		.23
Mean		132.80	133.36	132.76	134.03	135.79	135.82	133.55		132.58	132.39	132.26
Max.		135.39	135.04	133.56	137.00	136.97	137.45	134.56		132.74	132.45	132.37
Min.		132.15	132.53	132.51	132.44	134.91	134.23	133.14		132.45	132.32	132.17

WATER YEAR 1961 : Max. 137.45 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		3.20	167	54	8.90	156	183	95				
2		2.80	135	39	8.90	160	299	103		16	8.30	5.60
3		2.50	104	37	8.50	167	313	93		16	8.30	5.60
4		2.60	71	37	8.00	238	352	77		16	8.30	5.40
5		3.00	53	33	12	210	415	69		15	8.00	5.40
6		2.60	54	26	19	171	462	63		15	8.00	5.40
7		2.50	65	21	17	183	420	62		15	7.80	5.20
8		2.50	69	18	23	177	352	57		15	7.80	5.20
9		4.20	55	15	51	150	249	54		15	7.60	5.20
10		2.50	40	14	63	357	195	49		14	7.60	4.00
11		2.40	42	13	49	408	151	47		14	7.60	4.00
12		2.40	31	12	44	418	179	45		13	7.60	4.40
13		5.20	25	11	34	397	170	54		13	7.60	4.60
14		7.80	23	10	29	309	168	48		12	7.40	4.40
15		63	19	10	24	286	151	47		12	7.20	4.40
16		38	18	10	28	283	127	44		11	7.00	4.20
17		25	19	9.90	22	269	123	42		11	6.80	4.20
18		22	17	9.90	144	217	107	37		11	6.80	4.20
19		15	20	10	176	220	100	38		10	6.60	4.00
20		12	20	13	145	289	218	38		10	6.20	3.80
21		10	20	18	79	348	376	38		10	6.00	3.60
22		9.20	20	16	57	282	425	36		10	6.00	3.40
23		8.00	16	21	46	249	517	34		10	5.80	3.40
24		7.40	15	20	344	256	540	33		10	5.80	3.20
25		6.80	13	17	365	254	519	32		10	6.20	3.00
26		38	12	16	381	262	383	31		9.00	6.20	2.80
27		54	11	14	313	240	265	30		9.00	5.80	2.60
28		104	10	11	258	221	210	30		9.00	5.60	2.60
29		96	86	11	229	208	164	29		8.00	5.60	6.60
30		119	74	11	189	193	132	29		8.00	5.60	5.80
31		203	9.70	178	178	121	121	28		8.00	4.20	3.80
Total		876.60	1,324	567.50	3,353.30	7,578	8,386	1,474				
Mean		28.3	44.1	18.3	108	253	270	49.1		363	195.50	134.20
Max.		203	167	54	381	418	540	103		11.7	6.98	4.33
Min.		2.40	10	9.70	8.00	150	100	28		16	8.30	6.60
Runoff		75.738	114.394	49.032	289.725	654.738	724.550	127.354		8.00	5.60	2.60
										31.363	16.891	11.595

WATER YEAR 1961 : Max. 540 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 24	12.00	137.45	540				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
WANG RIVER BASIN

Mae Wang River at Wang Khrai, Tak (W.4)

Location: Lat 17°-12' - 58" N, Long 99°-04' - 42" E, on right bank 200 meters upstream from the bridge at Ban Wang Khrai, 8 kilometers from Amphoe Sam Ngao and 6 kilometers from Phahon Yothin Highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,407 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.31 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the fence near the gage site.
Elevation: +137.182 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: 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 due to its stability.

Overbank Flow Conditions: No overbank flow.

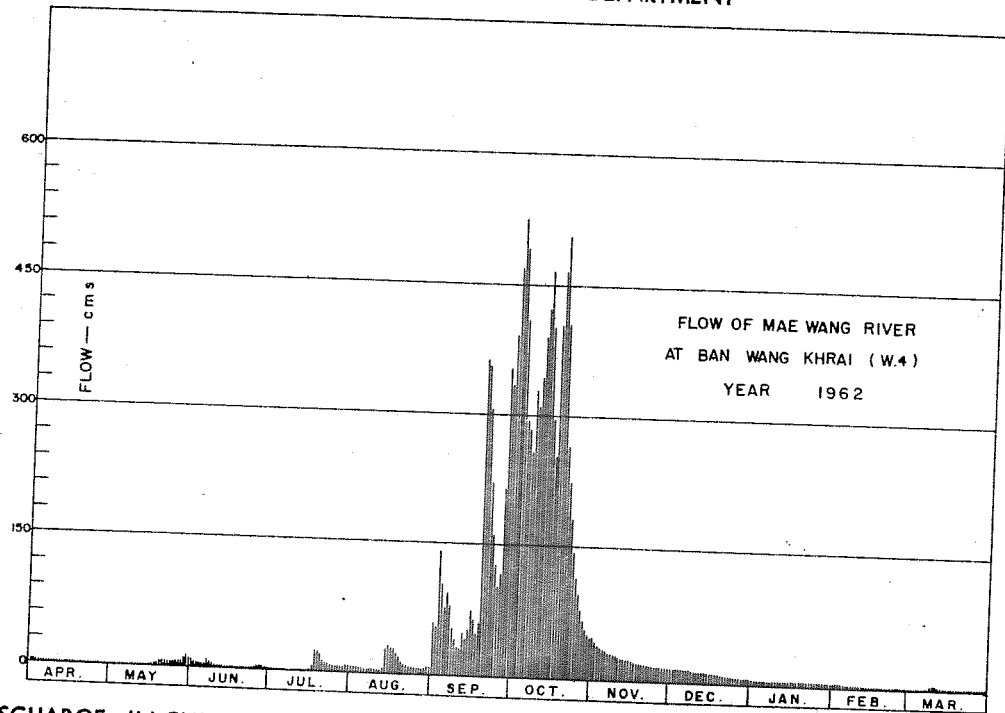
General Description: Records good. The data presented is made by discharge measurements during 1962. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	132.19	131.95	132.46	132.07	132.34	133.72	137.27	133.45	132.68	132.30	132.18	131.98
2	.17	.94	.40	.05	.38	.59	.39	.37	.68	.30	.18	.98
3	.14	.94	.31	.02	.35	135.01	.32	.30	.67	.28	.17	.98
4	.12	.93	.26	.01	.31	134.29	.09	.25	.66	.27	.17	.98
5	.11	.93	.26	131.99	.30	133.95	134.51	.20	.65	.26	.15	.98
6	132.11	131.94	132.29	131.95	132.28	134.29	136.44	133.16	132.64	132.25	132.14	131.98
7	.10	.94	.49	.94	.27	.07	.19	.10	.63	.25	.13	.98
8	.09	.96	.36	.94	.25	133.60	.73	.06	.62	.25	.13	.98
9	.08	.97	.27	.93	.26	.33	.59	.07	.61	.24	.12	132.18
10	.06	132.09	.21	.92	.23	.09	.80	.02	.59	.24	.10	.30
11	132.06	132.13	132.18	131.90	132.21	133.08	137.02	133.00	132.58	132.23	132.09	132.25
12	.06	.09	.15	.88	.20	.50	.14	132.93	.57	.23	.08	.13
13	.07	.10	.13	.94	.25	.36	.26	.93	.57	.23	.07	.08
14	.09	.09	.12	.93	133.03	.58	.65	.90	.56	.24	.06	.07
15	.68	.07	.10	.92	.13	.98	136.40	.91	.55	.24	.06	.06
16	132.07	132.09	132.09	131.99	133.03	133.78	136.10	132.88	132.53	132.23	132.05	132.06
17	.05	.12	.07	132.31	.05	.47	137.08	.63	.52	.22	.05	.06
18	.03	.16	.05	.94	132.90	.74	.26	.82	.50	.22	.04	.05
19	.03	.17	.05	.90	.74	136.90	.35	.80	.50	.22	.03	.09
20	.04	.32	.05	.77	.61	.86	.01	.78	.48	.21	.03	.03
21	132.04	132.33	132.04	132.60	132.53	136.53	136.27	132.78	132.43	132.21	132.02	132.02
22	.03	.37	.02	.51	.47	135.90	135.95	.75	.41	.19	.01	.61
23	.08	.31	.00	.50	.44	.21	.50	.73	.40	.19	.01	.00
24	.05	.31	.19	.42	.45	134.77	.04	.73	.37	.21	.01	131.99
25	.04	.30	.13	.38	.48	.35	134.65	.72	.35	.20	.00	.98
26	132.03	132.37	132.21	132.36	132.53	134.66	134.33	132.70	132.33	132.21	132.00	131.97
27	131.98	.37	.24	.34	.57	135.92	.04	.69	.31	.21	131.99	.97
28	.96	.40	.21	.31	.91	135.85	133.83	.68	.30	.20	.99	.97
29	.96	.52	.14	.33	134.51	.73	.66	.57	.31	.20	.96	.96
30	.95	.63	.09	.43	.70	137.02	.54	.66	.31	.19	.96	.96
31	.54	.54	.44	.44	.22	.48	.48	.30	.30	.19	.96	.96
Mean	132.06	132.17	132.18	132.22	132.71	134.64	136.87	132.93	132.50	132.23	132.07	132.03
Max.	132.19	132.63	132.49	132.94	134.70	137.02	137.39	133.45	132.68	132.30	132.16	132.30
Min.	131.95	131.93	132.00	131.88	132.20	133.08	133.48	132.66	132.30	132.19	131.99	131.96

WATER YEAR 1962 : Max. 137.39 m. Min. 131.88 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.80	0.78	9.10	1.90	6.60	59	468	46	15	5.80	3.60	1.02
2	3.40	0.70	7.80	1.70	7.40	53	524	42	15	5.80	3.60	1.02
3	2.80	0.70	6.00	1.40	6.80	142	490	38	15	5.40	3.40	1.02
4	2.60	0.63	5.00	1.30	6.00	93	406	36	15	5.20	3.40	1.02
5	2.50	0.63	5.00	1.10	5.80	73	294	34	15	5.00	3.00	1.02
6	2.50	0.70	5.60	0.78	5.40	93	284	33	14	5.00	2.80	1.02
7	2.40	0.70	10	0.70	5.20	80	252	30	14	4.80	2.70	1.02
8	2.30	0.86	7.00	0.70	4.80	53	329	29	14	4.80	2.70	1.02
9	2.10	0.94	5.20	0.63	5.00	40	306	28	13	4.60	2.60	3.60
10	1.80	2.30	4.00	0.56	4.40	30	342	27	13	4.60	2.60	5.80
11	1.80	2.70	7.50	0.42	4.00	30	389	26	12	4.40	2.30	4.80
12	1.80	2.30	3.00	0.35	3.90	48	422	24	12	4.40	2.10	2.70
13	1.90	2.40	2.70	0.70	4.80	41	465	24	12	4.40	1.90	2.10
14	2.30	2.30	2.60	0.63	28	52	396	23	12	4.60	1.80	1.90
15	2.10	1.90	2.40	0.56	32	74	278	23	12	4.60	1.80	1.80
16	1.90	2.30	2.30	1.10	28	62	241	22	11	4.40	1.70	1.80
17	1.70	2.60	1.90	6.00	28	47	404	20	11	4.20	1.70	1.80
18	1.50	3.20	1.70	24	23	60	465	20	10	4.20	1.60	1.70
19	1.50	3.40	1.70	23	19	362	505	19	10	4.20	1.50	1.60
20	1.60	6.20	1.70	19	13	354	387	19	9.70	4.00	1.50	1.50
21	1.60	6.40	1.60	13	11	297	262	19	8.40	4.00	1.40	1.40
22	1.50	7.20	1.40	10	9.40	219	224	18	8.00	3.80	1.30	1.30
23	2.10	6.00	1.20	10	8.60	158	181	17	7.80	3.80	1.30	1.20
24	1.70	6.00	2.40	8.20	8.80	126	144	17	7.20	4.00	1.30	1.10
25	1.60	5.80	2.70	7.40	9.70	97	116	17	6.80	3.90	1.20	1.02
26	1.50	7.20	4.00	7.00	11	117	95	16	6.40	4.00	1.20	0.94
27	1.02	7.20	4.60	6.60	12	221	78	16	6.00	4.00	1.10	0.94
28	0.86	7.80	4.00	6.00	23	352	65	15	5.80	3.90	1.10	0.94
29	0.86	11	2.80	6.40	106	329	56	15	6.00	3.90	1.10	0.86
30	0.78	14	2.30	8.40	120	389	50	15	6.00	3.80	1.10	0.86
31		11		8.60	89		47		5.80	3.80		0.86
Total	57.82	127.84	115.30	178.13	649.60	4,151	8,965	728	328.90	137.30	58.00	50.68
Mean	1.93	4.12	3.84	5.75	20.9	138	289	24.2	10.6	4.43	2.07	1.63
Max.	3.80	14	10	24	120	389	524	46	15	5.80	3.60	5.80
Min.	0.78	0.63	1.20	0.35	3.90	30	47	15	5.80	3.80	1.10	0.86
Runoff - ccm.	4.996	11.045	9.962	15.390	56.125	358.646	774.576	62.899	28.417	11.863	5.011	4.379

WATER YEAR 1962 : Max. 524 Min. 0.35 Mean 42.6 Annual Runoff 1,343.310 ccm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	06.00	137.41	531				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
WANG RIVER BASIN

Mae Mo Creek at Thanhin Lignite Office, Lampang (W.7)

Location: Lat 18° - 18' - 21" N, Long 99° - 43' - 40" E, on left bank at Thanhin Lignite Office, 11 kilometers upstream from Mae Mo Railway Station, Amphoe Muang, Lampang.

Drainage Area: 196 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +296.92 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 5 - time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 - 60

Rating Operation:

Period of Rating: 1954 - 56
Rated by Float: -
Rated by Current Meter: 1954 - 56

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1956. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

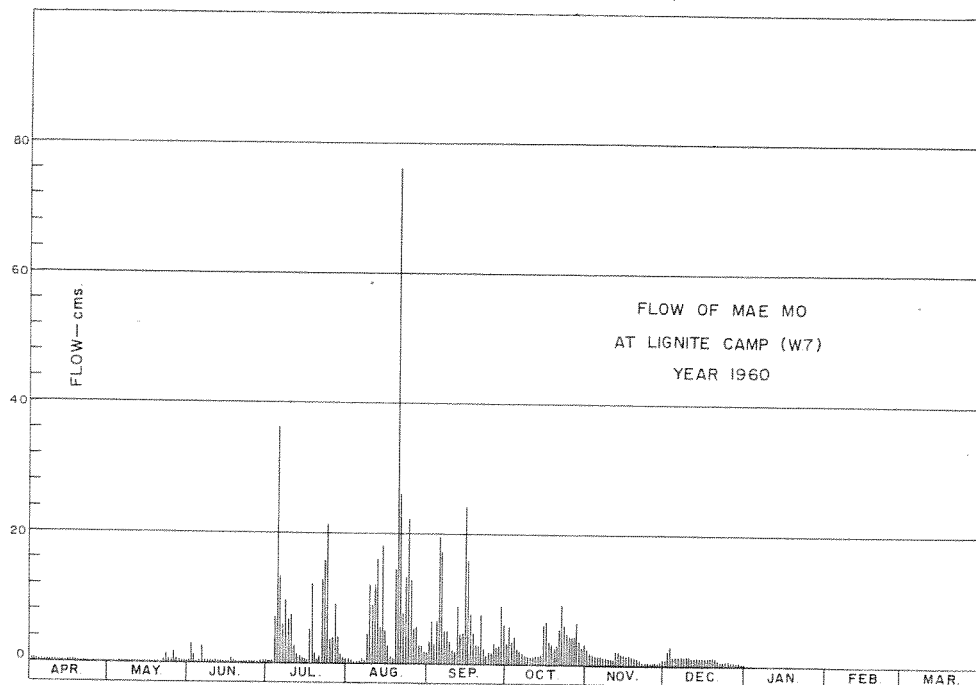
Remarks: No gage height record for Jan.1 - Mar.31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	296.96	296.92	296.96	297.03	297.23	297.63	297.60	297.52	297.22			
2	.96	.92	297.60	.03	.12	.99	.46	.52	.64			
3	.96	.92	.08	.02	.08	.51	.68	.42	.64			
4	.95	.92	.06	.01	.05	.43	.78	.39	.29			
5	.95	.91	.05	299.77	.03	298.95	.52	.36	.35			
6	296.95	296.91	297.55	298.16	297.23	298.72	297.47	297.32	297.33			
7	.95	.91	.11	297.85	.14	297.80	.40	.28	.32			
8	.95	.91	.09	298.30	.08	.86	.37	.30	.31			
9	.95	.91	.08	297.98	298.47	.68	.39	.26	.33			
10	.95	.91	.06	298.12	.05	.47	.35	.24	.32			
11	296.94	296.91	297.04	297.62	298.49	297.39	297.34	297.23	297.31			
12	.94	.91	.03	.42	.75	298.22	.32	.50	.31			
13	.94	.91	.04	.35	297.39	297.75	.30	.47	.30			
14	.94	.91	.05	.31	298.86	.57	.34	.44	.29			
15	.94	.91	.03	.23	297.86	299.19	.97	.43	.29			
16	296.94	296.90	297.02	297.13	297.54	298.54	297.98	297.42	297.27			
17	.94	.90	.25	.09	.30	.03	.68	.40	.27			
18	.94	.90	.05	298.46	.21	297.85	.63	.38	.29			
19	.93	.90	.03	297.48	.41	.67	.54	.34	.31			
20	.93	.90	.01	.18	301.10	.45	.50	.27	.27			
21	296.93	296.90	297.00	297.13	298.57	298.11	297.89	297.13	297.26			
22	.93	.95	296.99	298.44	.07	297.59	298.25	.11	.26			
23	.93	297.39	.99	.65	.25	.47	297.89	.09	.25			
24	.93	.10	.98	.92	299.07	.49	.82	.09	.24			
25	.92	.70	.97	297.75	298.58	.43	.79	.09	.24			
26	296.92	297.46	296.96	297.59	297.85	297.65	297.77	297.10	297.24			
27	.92	.04	.95	298.25	.93	.54	.78	.09	.23			
28	.92	296.98	297.08	297.71	.64	.58	.98	.07	.22			
29	.92	.97	.11	.46	.60	298.21	.67	.13	.21			
30	.92	.96	.05	.37	.47	297.90	.60	.21	.20			
31		.96		.26	.42		.64		.20			
Mean	269.94	296.99	297.07	297.71	297.86	297.85	297.65	297.28	297.29			
Max.	296.96	297.70	297.60	299.77	301.10	299.19	298.25	297.52	297.64			
Min.	296.92	296.90	296.95	297.01	297.03	297.39	297.30	297.07	297.20			

WATER YEAR 1960 : Max. 301.10 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.03	0.00	0.03	0.12	0.67	2.89	2.65	2.13	0.64			
2	0.03	0.00	2.65	0.12	0.32	6.14	5.72	1.76	2.13			
3	0.03	0.00	0.22	0.11	0.22	2.06	3.25	1.54	2.95			
4	0.02	0.00	0.18	0.09	0.16	1.59	4.12	1.38	0.91			
5	0.02	0.00	0.16	36	0.12	19	2.13	1.23	1.18			
6	0.02	0.00	2.32	8.04	0.67	16	1.82	1.03	1.08			
7	0.02	0.00	0.29	4.75	0.38	4.30	1.43	0.87	1.03			
8	0.02	0.00	0.24	9.75	0.22	4.84	1.28	0.95	0.99			
9	0.02	0.00	0.22	6.04	12	3.25	1.38	0.79	1.08			
10	0.02	0.00	0.18	7.58	6.80	1.82	1.18	0.71	1.03			
11	0.01	0.00	0.14	2.80	12	1.38	1.13	0.67	0.99			
12	0.01	0.00	0.12	1.54	16	8.75	1.03	2.00	0.99			
13	0.01	0.00	0.14	1.18	1.38	3.85	0.95	1.82	0.95			
14	0.01	0.00	0.16	0.99	18	2.45	1.13	1.65	0.91			
15	0.01	0.00	0.12	0.67	4.84	24	5.93	1.59	0.91			
16	0.01	0.00	0.11	0.35	2.26	13	6.04	1.54	0.83			
17	0.01	0.00	0.75	0.24	0.95	6.58	3.25	1.43	0.83			
18	0.01	0.00	0.16	12	0.60	4.75	2.87	1.33	0.91			
19	0.00	0.00	0.12	1.88	1.48	3.17	2.26	1.13	0.99			
20	0.00	0.00	0.09	0.50	76	1.69	2.00	0.83	0.83			
21	0.00	0.00	0.07	0.35	13	7.46	5.11	0.35	0.79			
22	0.00	0.02	0.06	11	7.02	2.58	9.12	0.29	0.79			
23	0.00	1.38	0.06	15	9.12	1.82	5.11	0.24	0.75			
24	0.00	0.27	0.05	19	21	1.94	4.48	0.24	0.71			
25	0.00	3.40	0.04	3.85	13	1.59	4.21	0.24	0.71			
26	0.00	1.76	0.03	2.58	4.75	3.02	4.03	0.27	0.71			
27	0.00	0.14	0.02	9.12	5.51	2.26	4.12	0.24	0.67			
28	0.00	0.05	0.22	3.49	2.95	2.52	6.04	0.20	0.64			
29	0.00	0.04	0.29	1.76	2.65	8.62	3.17	0.35	0.60			
30	0.00	0.03	0.16	1.28	1.82	5.20	2.65	0.60	0.57			
31	0.00	0.03		0.79	1.54		2.95		0.57			
Total	0.31	7.12	9.40	162.97	237.43	168.52	102.54	29.40	29.67			
Mean	0.01	0.23	0.31	5.26	7.65	5.62	3.31	0.98	0.96			
Max.	0.03	3.40	2.65	36	76	24	9.12	2.13	2.95			
Min.	0.00	0.00	0.02	0.09	0.12	1.38	0.95	0.20	0.57			
Runoff - mcm.	0.027	0.615	0.812	14.081	20.514	14.560	8.859	2.540	2.563			

WATER YEAR 1960 : Max. 76 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	12.00	302.79	144				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
WANG RIVER BASIN

Mae Chang Creek at Ban Sop Mo, Lampang (W.8)

Location: Lat 18°-14' - 52" N, Long 99°-42' - 40" E, on right bank at Ban Sop Mo, 700 meters downstreams from the confluence with Mae Mo Creek or 2 kilometers downstream from Mae Mo railway station, Amphoe Mae Tha, Lampang.

Drainage Area: 754 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +280.68 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 - 60

Rating Operation:

Period of Rating: 1954 - 60
Rated by Float: -
Rated by Current Meter: 1954 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to the inefficiency of the measuring point.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

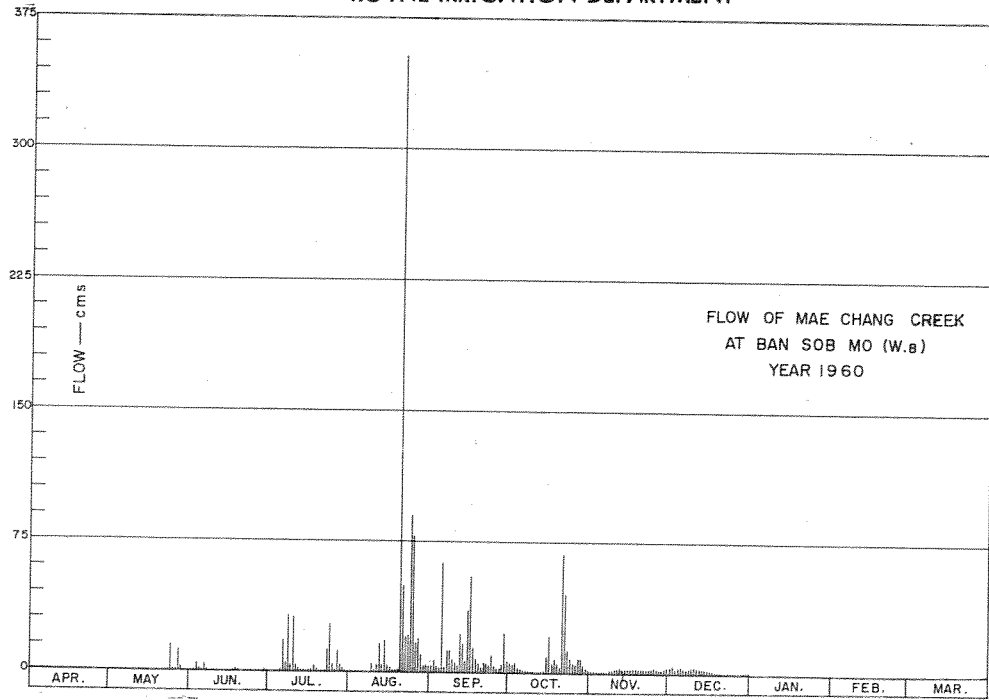
Remarks: No gage height record for Jan.1 - Mar.31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	280.72	280.69	280.74	280.81	280.95	281.27	281.37	281.05	281.28			
2	.72	.69	.73	.78	.88	.45	.34	.06	.34			
3	.72	.69	.97	.75	.85	.25	.40	.04	.18			
4	.72	.69	281.03	.74	.82	.17	.23	280.98	.24			
5	.72	.68	280.87	283.34	.78	282.68	.19	281.00	.29			
6	0.72	280.68	281.30	281.94	280.83	282.23	281.08	281.01	281.26			
7	.71	.68	280.83	.32	.80	281.76	.00	280.96	.19			
8	.71	.68	.79	282.31	.82	.79	280.98	.94	.21			
9	.71	.68	.77	281.28	281.34	.53	.95	281.07	.26			
10	.71	.68	.75	282.28	280.96	.37	.95	.22	.26			
11	280.71	280.68	280.74	281.25	281.03	281.28	280.90	281.20	281.25			
12	.71	.68	.73	281.09	.81	282.06	.90	.26	.25			
13	.71	.68	.72	280.98	.29	281.87	.88	.23	.21			
14	.71	.67	.78	.91	.83	.43	.96	.17	.18			
15	.71	.67	.76	.87	.27	282.34	281.48	.16	.16			
16	280.70	280.67	280.75	280.92	281.18	282.78	281.98	281.19	281.14			
17	.70	.67	.91	.98	.07	281.82	.34	.22	.11			
18	.70	.67	.97	281.24	.01	.53	.54	.19	.09			
19	.70	.67	.82	.04	.00	.37	.38	.17	.08			
20	.70	.67	.80	280.93	285.18	.27	.23	.21	.06			
21	280.70	280.67	280.79	280.87	282.65	281.41	282.76	281.18	281.07			
22	.70	.67	.79	.88	.00	.38	.55	.18	.07			
23	.70	.67	.78	281.60	.04	.29	281.77	.19	.06			
24	.70	281.80	.77	.85	283.21	.63	.57	.15	.06			
25	.69	.06	.76	.27	282.88	.26	.37	.24	.06			
26	280.69	280.89	280.75	281.05	281.89	281.18	281.35	281.22	281.06			
27	.69	281.54	.74	.62	.96	.11	.59	.13	.05			
28	.69	280.85	.74	.27	.66	.30	.56	.15	.05			
29	.69	.77	281.00	.15	.44	282.08	.30	.16	.05			
30	.69	.75	280.84	.08	.31	281.48	.17	.25	.06			
31		.74		280.94	.24		.13	.05				
Mean	280.70	280.75	280.82	281.27	281.55	281.61	281.36	281.14	281.15			
Max.	280.72	281.80	281.30	283.34	285.18	282.78	282.76	281.26	281.34			
Min.	280.69	280.67	280.72	280.74	280.78	281.11	280.88	280.94	281.05			

WATER YEAR 1960 : Max. 285.18 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.04	0.02	0.05	0.17	0.70	3.55	5.05	1.23	3.70			
2	0.04	0.02	0.04	0.10	0.38	6.25	4.60	1.28	4.60			
3	0.04	0.02	3.89	0.05	0.29	3.25	5.50	1.17	2.30			
4	0.04	0.02	1.12	0.05	0.20	2.20	2.95	0.85	3.10			
5	0.04	0.02	0.35	91	0.10	63	2.40	0.95	3.85			
6	0.04	0.02	4.00	18	0.23	2.95	1.39	1.00	3.40			
7	0.03	0.02	0.23	4.30	0.14	12	0.95	0.75	2.40			
8	0.03	0.02	0.12	32	0.20	13	0.85	0.65	2.65			
9	0.03	0.02	0.09	3.70	4.60	7.60	0.70	1.34	3.40			
10	0.03	0.02	0.05	31	0.75	5.05	0.70	2.80	3.40			
11	0.03	0.02	0.05	3.25	1.12	3.70	0.45	2.50	3.25			
12	0.03	0.02	0.04	1.45	16	22	0.45	3.40	3.25			
13	0.03	0.02	0.04	0.85	3.85	16	0.38	2.95	2.65			
14	0.03	0.01	0.10	0.50	18	5.95	0.75	2.20	2.30			
15	0.03	0.01	0.07	0.35	3.55	35	9.50	2.10	2.10			
16	0.03	0.01	0.05	0.55	2.30	55	21	2.40	1.90			
17	0.03	0.01	0.50	0.85	1.34	14	4.60	2.80	1.60			
18	0.03	0.01	0.80	3.10	1.00	7.60	7.80	2.40	1.45			
19	0.03	0.01	0.20	1.17	0.95	5.05	5.20	2.20	1.39			
20	0.03	0.01	0.14	0.60	353	3.55	2.95	2.65	1.28			
21	0.03	0.01	0.12	0.35	49	5.65	68	2.30	1.34			
22	0.03	0.01	0.12	0.38	20	5.20	45	2.30	1.34			
23	0.03	0.01	0.10	13	21	3.85	13	2.40	1.28			
24	0.03	15	0.09	27	90	9.60	8.40	2.00	1.28			
25	0.02	1.28	0.07	3.55	67	3.40	5.05	3.10	1.28			
26	0.02	0.41	0.05	1.23	16	2.30	4.75	2.80	1.28			
27	0.02	11	0.05	12	19	1.60	8.80	1.80	1.23			
28	0.02	0.29	0.05	3.55	10	4.00	8.20	2.00	1.23			
29	0.02	0.07	0.95	2.00	6.10	23	4.00	2.10	1.23			
30	0.02	0.05	0.26	1.39	4.15	6.70	2.20	3.25	1.28			
31	0.02	0.05		0.65	3.10		1.80		1.23			
Total	0.90	29.77	13.79	258.14	714.05	352.0	247.37	61.67	67.69			
Mean	0.03	0.96	0.46	8.33	23.0	11.7	7.98	2.05	2.18			
Max.	0.04	15	4.00	91	353	63	68	3.40	4.60			
Min.	0.02	0.01	0.04	0.05	0.10	1.60	0.38	0.65	1.23			
Runoff - mcm.	0.078	2.572	1.191	22.303	61.694	30.413	21.373	5.328	5.848			

WATER YEAR 1960 : Max. 353 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	12.00	286.95	600				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
WANG RIVER BASIN

Mae Mo Creek at railway bridge, Lampang (W.9)

Location: Lat 18° - 14' - 52" N, Long 99° - 42' - 23" E, on left bank at the state railway bridge near Mae Mo Railway Station, Amphoe Mae Tha, Lampang.

Drainage Area: 347 sq.km. referred AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +284.53 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 - 60

Rating Operation:

Period of Rating: 1957 - 60
Rated by Float: -
Rated by Current Meter: 1957 - 60

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage height record. The data presented is made by discharge measurements during 1960. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

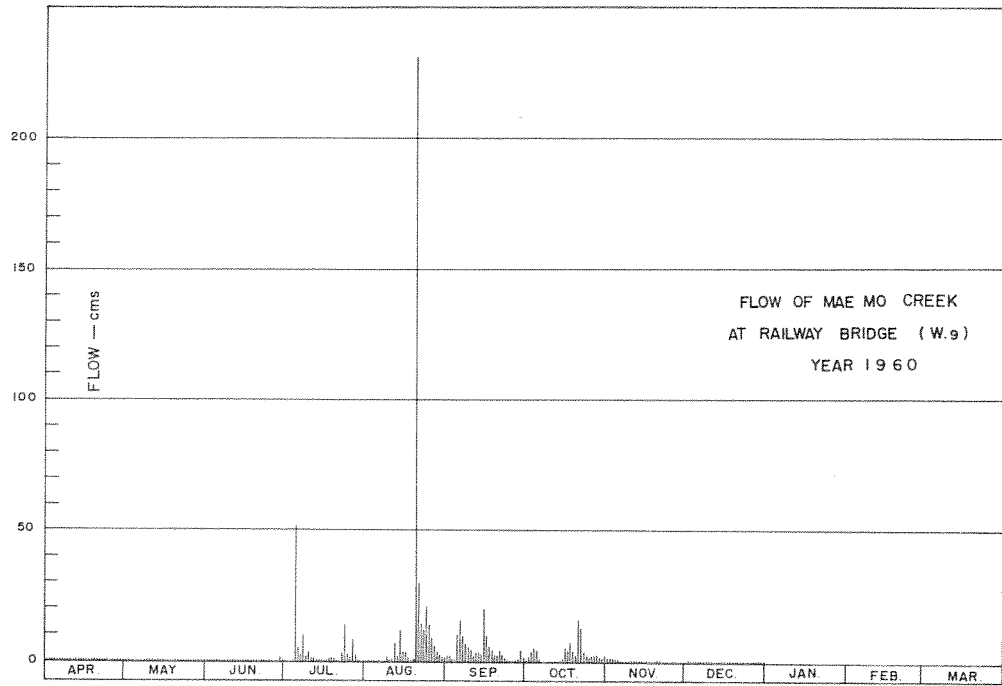
Remarks: No gage height record for Jan.1 - Mar.31 and no flow for Apr.1 - Jun.27.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	284.86	284.83	284.93	284.99	285.20	285.64	285.14	285.52	285.31			
2	.86	.83	.93	.98	.18	.58	.50	.55	.53			
3	.86	.83	.92	.97	.17	.58	.84	.54	.27			
4	.86	.82	.95	.96	.16	.36	.90	.49	.31			
5	.85	.82	.97	287.00	.15	286.08	.85	.47	.30			
6	284.85	284.82	284.99	285.96	285.17	286.23	285.32	285.46	285.34			
7	.85	.82	.97	.70	.12	.07	.09	.33	.28			
8	.85	.82	.96	286.19	.10	285.95	.06	.33	.27			
9	.85	.82	.95	285.66	.54	.91	.04	.31	.24			
10	.85	.82	.94	.90	.25	.81	.04	.35	.23			
11	284.85	284.82	284.94	285.46	285.27	285.55	285.01	285.30	285.24			
12	.85	.82	.96	.43	286.00	.88	284.99	.32	.23			
13	.85	.82	.96	.41	285.59	.87	285.10	.34	.23			
14	.84	.81	.95	.38	286.18	.76	.13	.30	.23			
15	.84	.81	.95	.37	285.77	286.44	.65	.29	.23			
16	284.84	284.81	284.94	285.34	285.77	286.12	285.96	285.26	285.23			
17	.84	.81	.94	.32	.49	285.94	.86	.25	.23			
18	.84	.81	.93	.66	.40	.88	286.06	.27	.22			
19	.84	.81	.93	.60	.34	.73	285.81	.28	.22			
20	.84	.81	.92	.38	288.23	.60	.52	.30	.22			
21	284.84	284.81	284.92	285.28	286.70	285.82	286.42	285.29	285.22			
22	.84	.92	.92	.22	.26	.74	.17	.29	.22			
23	.83	.92	.92	.82	.23	.43	285.77	.29	.21			
24	.83	.92	.91	285.28	.48	.04	.69	.26	.21			
25	.83	.91	.91	285.73	.28	.01	.58	.24	.21			
26	284.83	284.91	284.91	285.49	286.09	285.17	285.55	285.24	285.21			
27	.83	.94	.91	286.12	285.95	.10	.53	.23	.20			
28	.83	.94	.91	285.73	.70	.16	.81	.24	.20			
29	.83	.94	285.34	.45	.69	.86	.58	.28	.20			
30	.83	.93	.02	.35	.54	.48	.48	.26	.19			
31		.93		.24	.43		.68		.19			
Mean	284.84	284.85	284.95	285.56	285.72	285.69	285.55	285.33	285.24			
Max.	284.86	284.94	285.34	287.00	288.23	286.44	286.42	285.55	285.53			
Min.	284.83	284.81	284.91	284.96	285.10	285.01	284.99	285.23	285.19			

WATER YEAR 1960 : Max. 288.23 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.06	0.10	2.33	0.14	1.14	0.26			
2				0.02	0.09	2.15	1.70	1.35	1.00			
3				0.00	0.09	0.70	3.86	1.28	0.20			
4				0.00	0.09	0.65	4.98	1.00	0.35			
5				52	0.09	11	4.02	0.95	0.32			
6				5.50	0.14	16	0.70	0.65	0.41			
7				2.51	0.08	9.06	0.09	0.26	0.28			
8				10	0.06	6.50	0.04	0.39	0.24			
9				1.97	1.79	5.90	0.00	0.26	0.18			
10				3.86	0.20	4.66	0.00	0.28	0.16			
11				1.14	0.22	2.06	0.00	0.30	0.18			
12				1.00	6.70	3.70	0.00	0.32	0.16			
13				0.75	1.97	3.59	0.00	0.35	0.16			
14				0.60	12	2.42	0.01	0.26	0.16			
15				0.55	3.86	20	1.79	0.22	0.16			
16				0.47	3.59	9.50	5.50	0.18	0.16			
17				0.35	1.63	5.70	4.34	0.16	0.16			
18				1.88	0.75	4.02	7.52	0.22	0.14			
19				1.49	0.47	2.24	3.59	0.24	0.14			
20				0.65	231	2.06	2.06	0.30	0.14			
21				0.30	30	4.02	16	0.26	0.14			
22				0.10	14	2.42	11	0.24	0.14			
23				3.26	12	1.14	3.70	0.24	0.12			
24				14	21	0.03	2.71	0.18	0.12			
25				2.93	14	0.00	1.70	0.12	0.12			
26				1.56	8.84	0.22	2.06	0.09	0.12			
27				8.62	5.70	0.05	2.06	0.08	0.10			
28				2.71	3.15	0.07	2.82	0.08	0.10			
29			1.42	0.47	2.71	4.66	1.70	0.18	0.10			
30			0.12	0.32	1.79	1.35	1.63	0.16	0.09			
31				0.16	1.00		2.15		0.09			
Total			1.54	119.23	379.11	128.20	87.87	11.74	6.20			
Mean			0.05	3.85	12.23	4.27	2.83	0.39	0.20			
Max.			1.42	52	231	20	16	1.35	1.00			
Min.			0.00	0.00	0.06	0.00	0.00	0.08	0.09			
Runoff - mcm.			0.133	10.301	32.755	11.076	7.592	1.014	0.536			

WATER YEAR 1960 : Max. 231 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	18.00	290.01	435				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
WANG RIVER BASIN

Wang River at Kiu Lom, Lampang (W.10)

Location: Lat 18°-36' - 46" N, Long 99°-37' - 08" E, on left bank 1 kilometer upstream from Kiu Lom Damsite, Amphoe Chue Hom, Lampang.

Drainage Area: 2,796 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +260.91 m.(M.S.L.)

Bench Mark: B.M. - B.C.2

Location: About 5 meters from the upper gage.
Elevation: +268.599 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: 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: Rather unstable, shifting adjustment is included for flow computation.

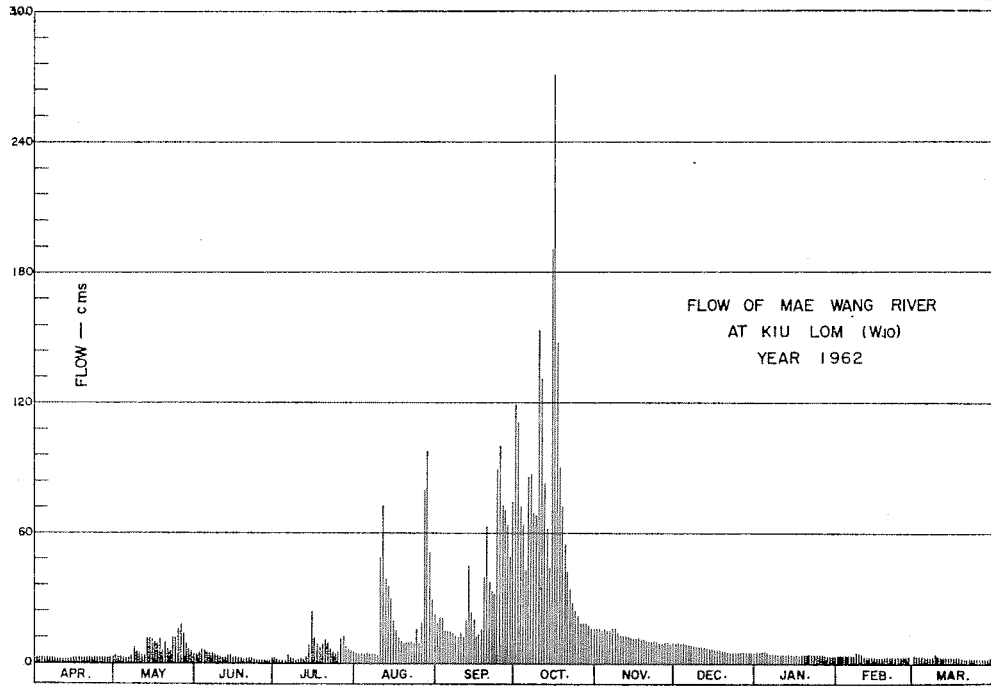
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1962. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	261.36	261.41	261.40	261.35	261.43	261.87	263.56	261.81	261.61	261.42	261.36	261.37
2	.36	.41	.44	.32	.41	.93	.50	.81	.61	.42	.36	.35
3	.35	.39	.48	.30	.44	.94	.06	.78	.60	.42	.35	.33
4	.35	.37	.46	.27	.42	.81	262.61	.78	.59	.42	.35	.33
5	.36	.36	.43	.25	.41	.81	.30	.76	.58	.42	.35	.32
6	261.35	261.35	261.43	261.38	261.41	261.79	263.02	261.76	261.57	261.41	261.34	261.32
7	.35	.40	.43	.35	.39	.75	.07	.78	.57	.41	.34	.31
8	.35	.56	.39	.32	.39	.72	262.79	.76	.56	.41	.33	.34
9	.34	.45	.37	.31	.41	.69	.79	.75	.56	.41	.33	.43
10	.34	.44	.35	.31	262.43	.75	263.94	.74	.55	.41	.32	.35
11	261.34	261.42	261.35	261.35	262.83	261.75	263.51	261.74	261.53	261.41	261.32	261.32
12	.34	.41	.33	.34	.26	.98	262.98	.72	.53	.40	.32	.31
13	.34	.67	.37	.46	.20	262.34	.59	.72	.52	.40	.31	.30
14	.33	.69	.39	.63	.07	.07	.38	.71	.51	.40	.30	.29
15	.35	.65	.37	262.01	261.91	261.92	264.23	.70	.51	.40	.30	.29
16	261.36	261.64	261.34	261.74	261.77	261.69	265.29	261.70	261.50	261.40	261.30	261.27
17	.36	.60	.32	.63	.70	.75	263.87	.69	.49	.40	.30	.27
18	.35	.64	.33	.58	.66	.81	.12	.69	.48	.40	.30	.26
19	.35	.45	.32	.61	.64	262.20	262.77	.68	.47	.39	.30	.25
20	.35	.61	.35	.69	.66	.60	.68	.67	.46	.39	.30	.25
21	261.36	261.52	261.36	261.66	261.66	262.28	262.48	261.67	261.45	261.39	261.30	261.24
22	.36	.49	.35	.55	.66	.24	.30	.66	.45	.39	.29	.24
23	.36	.70	.31	.49	.65	.28	.18	.66	.45	.38	.30	.24
24	.36	.70	.30	.45	.83	263.09	.11	.66	.45	.38	.31	.23
25	.36	.80	.29	.51	.68	.48	.02	.65	.45	.37	.31	.23
26	261.37	261.85	261.29	261.70	261.88	262.90	261.96	261.65	261.45	261.37	261.30	261.23
27	.39	.74	.30	.75	262.98	.88	.92	.64	.45	.36	.30	.22
28	.39	.60	.28	.56	263.23	.72	.88	.63	.44	.36	.33	.22
29	.39	.52	.28	.53	262.42	.40	.84	.62	.44	.36		.24
30	.39	.49	.36	.49	.08	263.06	.81	.62	.43	.36		.27
31		.43		.45	261.98		.80		.43	.36		.29
Mean	261.36	261.54	261.36	261.49	261.87	262.18	262.78	261.71	261.51	261.39	261.32	261.29
Max.	261.39	261.85	261.48	262.01	263.23	263.48	265.29	261.81	261.61	261.42	261.36	261.43
Min.	261.33	261.35	261.28	261.25	261.39	261.69	261.80	261.62	261.43	261.36	261.29	261.22

WATER YEAR 1962 : Max. 265.29 m. Min. 261.22 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.75	3.80	4.40	2.45	4.85	19	119	16	9.50	5.00	3.65	3.65
2	2.75	3.50	5.30	2.00	4.25	21	110	16	9.80	5.00	3.80	3.35
3	2.60	3.35	6.80	1.80	4.85	21	72	15	9.50	5.00	3.65	3.35
4	2.45	2.75	6.20	1.50	4.70	15	63	16	9.50	5.00	3.65	3.35
5	2.60	2.90	5.00	1.60	4.85	15	43	15	9.20	4.85	3.65	3.20
6	2.45	3.05	4.85	3.95	4.55	15	86	15	8.90	4.70	3.65	3.05
7	2.45	3.95	4.85	2.75	4.10	14	87	16	8.90	4.70	3.65	2.90
8	2.30	8.00	4.10	2.45	4.10	13	69	16	8.00	4.70	4.85	3.20
9	2.00	5.00	3.80	1.90	3.65	12	68	14	8.00	4.70	4.85	4.55
10	2.00	5.00	3.05	2.00	4.8	14	153	13	8.00	4.70	4.70	3.35
11	2.15	4.25	2.90	2.45	73	12	118	13	7.40	4.55	3.35	3.20
12	2.15	4.40	2.90	2.30	39	20	77	13	7.40	4.55	3.20	3.05
13	2.15	12	3.80	4.25	36	45	62	13	7.40	4.70	3.05	2.90
14	2.15	12	3.80	8.60	30	24	44	12	7.10	4.55	2.90	2.75
15	2.45	11	3.35	24	20	20	190	11	7.10	4.40	2.90	2.75
16	2.60	10	2.90	13	15	12	271	11	6.50	4.40	2.90	2.45
17	2.60	9.20	2.60	9.20	12	14	147	12	6.20	4.55	2.90	2.45
18	2.45	11	2.75	7.70	10	16	90	11	6.20	4.70	2.90	2.45
19	2.45	5.30	2.15	9.20	9.20	39	60	11	5.90	4.55	3.05	2.15
20	2.45	9.80	2.90	11	9.80	63	55	10	5.60	4.55	3.05	2.15
21	2.60	6.80	3.05	9.80	9.80	37	43	10	4.85	4.55	3.05	2.15
22	2.75	5.60	2.75	7.10	10	33	33	10	4.85	4.55	3.05	2.15
23	2.75	12	2.15	5.90	9.50	32	27	10	4.85	4.40	3.20	2.15
24	2.75	12	1.60	4.70	16	88	24	10	4.85	4.40	3.20	2.15
25	2.75	16	1.60	5.90	9.50	100	22	9.50	4.85	4.25	3.05	2.15
26	2.90	18	1.60	11	19	73	19	9.20	5.00	3.95	2.90	2.00
27	2.90	14	1.70	13	60	70	19	9.80	5.00	3.50	2.75	1.90
28	3.05	9.20	1.50	7.40	98	59	19	9.80	4.85	3.50	3.20	1.90
29	3.20	6.80	1.50	6.80	44	48	17	9.50	4.85	3.50	3.20	2.30
30	3.35	5.90	2.45	6.20	28	88	16	9.80	5.60	3.50	2.75	2.75
31		4.70		5.60	23		16		4.85	3.65		2.75
Total	76.95	241.25	98.30	197.50	688.70	1,052	2,239	366.60	210.50	137.60	94.70	84.60
Mean	2.56	7.78	3.28	6.37	22.2	35.0	72.2	12.2	6.79	4.44	3.38	2.73
Max.	3.35	18	6.80	24	98	100	271	16	9.80	5.00	4.85	4.55
Min.	2.00	2.75	1.50	1.50	3.65	12	16	9.20	4.85	3.50	2.75	1.90
Runoff - HCB.	6.648	20.844	8.493	17.064	59.504	90.893	193.450	31.674	18.187	11.889	8.182	7.309

WATER YEAR 1962 : Max. 271 Min. 1.50 Mean 15.0 Annual Runoff 474.137 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	18.00	266.05	338				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
YOM RIVER BASIN

Mae Yom River at Muang Phrae (V.1)

Location: Lat 18° - 08' - 32" N, Long 100° - 08' - 07" E, on left bank in front of the district liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +144.90 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On left bank, 23 meters downstream from the gage site.
Elevation: +153.810 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: 1939 to date.

Rating Operation:

Period of Rating: 1954, 1956, 1957 - 60

Rated by Float: -

Rated by Current Meter: 1954, 1956, 1957 - 60

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

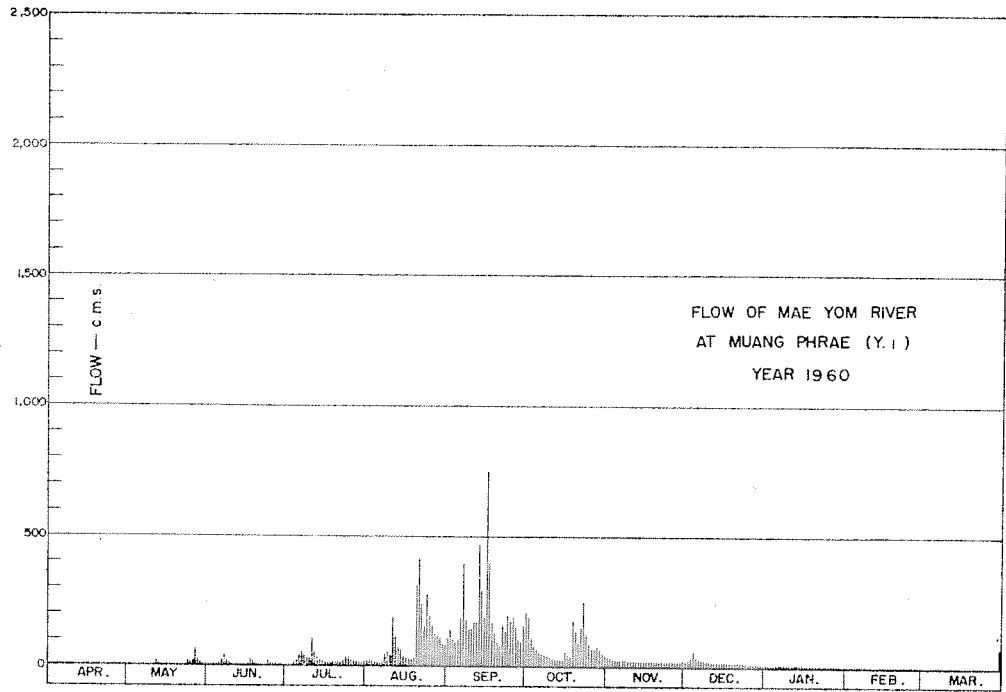
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.00	144.97	145.20	145.12	145.59	146.70	147.57	145.84	145.57	145.30	145.17	145.11
2	.00	.98	.17	.15	.74	147.03	.43	.78	.59	.29	.16	.10
3	.00	.97	.29	.15	.62	146.63	146.67	.73	.78	.29	.16	.10
4	.00	.97	.24	.42	.52	.53	.42	.70	146.11	.29	.16	.08
5	.00	.96	.41	.73	.47	.63	.24	.66	145.88	.29	.15	.07
6	144.99	144.98	145.61	146.02	145.42	147.41	146.13	145.63	145.74	149.28	145.15	145.07
7	.99	145.05	.99	.17	.53	148.75	.02	.61	.65	.28	.15	.06
8	.99	.11	.60	145.96	.98	147.32	145.96	.60	.60	.27	.14	.06
9	.99	.07	.43	.78	146.12	.03	.92	.59	.59	.26	.14	.08
10	145.00	.03	.34	.78	.01	.07	.84	.58	.55	.26	.13	.07
11	145.05	145.09	145.28	146.70	147.42	147.26	145.77	145.56	145.53	145.25	145.10	145.07
12	.02	.62	.25	.17	146.78	.28	.75	.58	.51	.25	.06	.07
13	.01	.35	.23	145.83	.36	149.13	.70	.58	.50	.24	.11	.06
14	.00	.25	.20	.72	.24	148.15	.69	.57	.48	.24	.11	.06
15	.00	.16	.18	.58	145.91	147.41	.71	.56	.47	.24	.11	.05
16	144.99	145.12	145.15	145.48	145.00	150.42	146.12	145.55	145.46	145.24	145.10	145.04
17	.99	.08	.72	.48	.77	148.77	.05	.55	.45	.24	.12	.04
18	.98	.07	.58	.48	.73	147.25	145.89	.55	.42	.24	.13	.04
19	.98	.05	.47	.52	.84	146.88	147.32	.55	.42	.22	.16	.05
20	.97	.03	.31	.52	148.29	.59	146.04	.54	.40	.21	.21	.04
21	144.97	145.02	145.24	145.48	148.85	146.38	146.52	145.52	145.39	145.21	145.22	145.04
22	145.05	.64	.20	.42	147.82	147.13	147.08	.54	.38	.20	.20	.04
23	.03	.11	.16	.72	.15	.00	.83	.53	.37	.19	.18	.04
24	.01	.56	.66	.83	148.03	.47	146.87	.54	.36	.19	.15	.03
25	.00	.40	.41	.88	147.48	.31	.48	.53	.35	.19	.13	.03
26	144.99	145.61	145.28	145.69	147.13	147.42	146.28	145.53	145.34	145.18	145.13	145.02
27	.98	146.23	.23	.59	146.88	.08	.25	.52	.33	.18	.12	.02
28	.96	145.65	.19	.55	.78	146.64	.41	.52	.33	.18	.11	.01
29	.96	.44	.16	.49	.71	.59	.21	.51	.32	.18	.11	.04
30	.96	.33	.14	.48	.45	147.16	.08	.60	.30	.17	.17	.26
31		.23		.49	.46		145.91		.30	.16		.31
Mean	144.99	145.21	145.34	145.66	146.48	147.35	146.36	145.59	145.50	145.23	145.14	145.07
Max.	145.05	146.23	145.99	146.70	148.85	150.42	147.83	145.84	146.11	145.30	145.22	145.31
Min.	144.96	144.96	145.14	145.12	145.42	146.38	145.69	145.51	145.30	145.16	145.06	145.01

WATER YEAR 1960 : Max. 150.42 m. Min. 144.96 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	0.40	5.30	3.40	20	107	208	34	19	8.30	4.60	3.10
2	0.90	0.50	4.60	4.10	28	142	190	31	20	8.00	4.30	2.90
3	0.90	0.40	8.00	4.10	22	100	104	28	31	8.00	4.30	2.90
4	0.90	0.40	6.50	13	17	90	79	26	53	8.00	4.30	2.40
5	0.90	0.30	12	28	15	100	63	24	37	8.00	4.10	2.20
6	0.70	0.50	21	46	13	187	54	22	28	7.70	4.10	2.20
7	0.70	1.80	43	58	17	392	46	21	27	7.70	4.10	2.00
8	0.70	3.14	21	42	43	176	42	21	21	7.40	3.90	2.00
9	0.70	2.20	13	31	54	142	39	20	20	7.10	3.90	2.40
10	0.90	1.40	2.50	31	45	146	34	20	18	7.10	3.60	2.20
11	1.80	2.70	7.70	107	189	169	30	19	17	6.80	2.90	2.20
12	1.20	24	6.80	58	115	172	29	20	16	6.80	2.00	2.20
13	1.00	9.80	6.20	34	73	464	26	20	16	6.50	3.10	2.00
14	0.90	6.80	5.30	27	63	292	25	19	15	6.50	3.10	2.00
15	0.90	4.34	4.80	20	39	187	27	19	15	6.50	3.10	1.80
16	0.70	3.38	4.10	15	32	745	54	18	14	6.50	2.90	1.60
17	0.70	2.40	27	15	30	396	48	18	14	6.50	3.40	1.60
18	0.50	2.20	20	15	28	168	37	18	13	6.50	3.60	1.60
19	0.50	1.80	14	17	34	125	176	18	13	5.90	4.30	1.80
20	0.40	1.40	8.60	17	314	96	131	18	12	5.60	5.60	1.60
21	0.40	1.20	6.50	15	410	75	89	17	11	5.60	5.90	1.60
22	1.80	1.60	5.30	13	243	154	148	18	11	5.30	5.30	1.60
23	1.40	3.10	4.30	27	156	138	244	17	11	5.10	4.80	1.60
24	1.00	19	24	34	273	195	124	18	10	5.10	4.10	1.40
25	0.90	12	12	37	196	175	85	17	9.80	5.10	3.60	1.40
26	0.70	21	7.70	25	154	189	66	17	9.50	4.80	3.60	1.20
27	0.50	62	6.20	20	125	148	64	17	9.20	4.80	3.40	1.20
28	0.30	23	5.10	18	115	101	78	17	9.20	4.80	3.10	1.00
29	0.30	13	4.30	16	108	96	61	16	8.90	4.80		1.60
30	0.30	9.20	3.90	15	82	157	50	21	8.30	4.60		7.10
31		6.20		16	83		39		8.30	4.30		8.60
Total	24.40	241.16	327.70	821.60	3,136	5,824	2,490	609	521.20	195.70	109.00	71.00
Mean	0.81	7.78	10.9	26.5	101	194	80.3	20.3	16.8	6.31	3.89	2.29
Max.	1.80	62	43	107	410	745	244	34	53	8.30	5.90	8.60
Min.	0.30	0.30	3.90	3.40	13	75	25	16	8.30	4.30	2.00	1.00
Runoff - mcm.	2.108	20.836	28.313	70.986	270.950	503.194	215.136	52.618	45.032	16.908	9.418	6.134

WATER YEAR 1960 : Max. 745 Min. 0.30 Mean 39.4 Annual Runoff 1,241,636 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.16	18.00	150.68	807				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
YOM RIVER BASIN**

Mae Yom River at Muang Phrae (Y.1)

Location: Lat 18°- 08' - 32" N, Long 100°- 08' - 07" E, on left bank in front of the district liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +144.90 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.1

Location: On left bank 23 meters downstream from the gage site.

Elevation: +153.810 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: 1939 to date.

Rating Operation:

Period of Rating: 1954, 1956 - 60.

Rated by Float: -

Rated by Current Meter: 1954, 1956 - 60.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

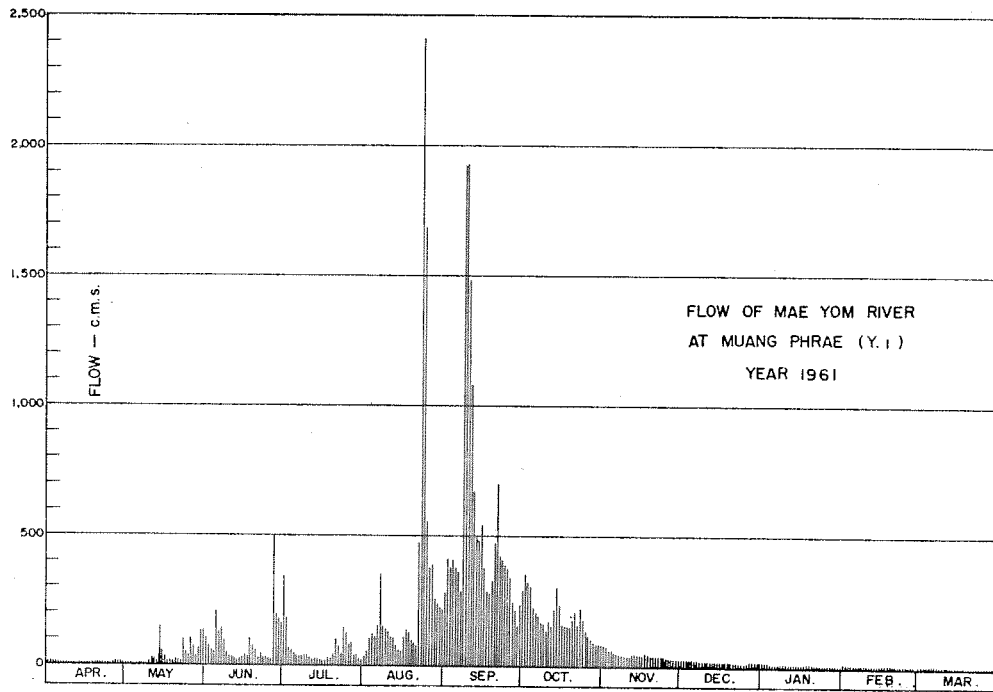
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 60. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.25	145.22	146.65	148.37	145.80	148.02	148.05	146.33	145.67	145.40	145.40	145.07
2	.32	.21	.35	147.33	146.11	.75	.42	.29	.66	.38	.38	144.99
3	.38	.24	.13	146.26	.62	.59	.21	.13	.63	.35	.35	.98
4	.34	.20	.07	.13	.78	.73	.11	.08	.62	.29	.29	.99
5	.26	.23	147.52	.01	.67	.57	147.61	.02	.59	.27	.27	.99
6	145.18	145.24	146.87	145.87	147.09	148.48	147.50	145.94	145.56	145.25	145.25	144.99
7	.13	.28	147.05	.75	148.42	.04	.37	.91	.54	.27	.27	.98
8	.08	.21	146.58	.75	147.07	153.66	.17	.88	.53	.32	.31	.98
9	.03	.23	145.96	.86	.01	.67	.16	.86	.51	.31	.29	.97
10	.05	.34	.90	.82	146.90	152.81	146.90	.80	.52	.29	.28	.98
11	145.03	145.67	145.74	145.71	146.66	151.67	147.22	145.80	145.51	145.28	145.27	144.98
12	.03	.61	.63	.54	.60	150.06	.09	.90	.50	.27	.27	.97
13	.02	.50	.50	.61	.34	149.21	.55	.94	.49	.27	.26	.97
14	.00	147.05	.57	.57	.07	.10	148.10	.90	.49	.26	.26	.96
15	.05	146.07	.67	.44	.06	.42	147.66	.86	.45	.25	.25	.96
16	145.05	145.85	145.88	145.38	146.68	148.58	147.14	145.87	145.44	145.26	145.26	144.96
17	.04	.50	.78	.47	.92	.03	.06	.98	.43	.30	.30	.95
18	.09	.47	146.60	.71	.84	147.99	.05	.95	.42	.34	.34	.94
19	.10	.49	.28	.64	.55	148.29	.03	.90	.41	.33	.32	.94
20	.12	.61	.12	146.02	.44	149.09	.28	.89	.39	.30	.30	.93
21	145.15	145.53	145.67	146.56	146.31	150.18	147.48	145.80	145.36	145.30	145.30	144.92
22	.23	.47	.95	.31	149.13	148.81	.08	.75	.32	.29	.29	.98
23	.20	146.56	.69	145.93	154.49	.71	.57	.77	.30	.24	.25	.96
24	.18	.04	.73	147.06	153.24	.60	.24	.77	.29	.18	.18	.93
25	.16	145.83	.58	146.79	149.51	.53	146.90	.72	.29	.17	.16	.93
26	145.25	146.59	145.58	146.37	148.58	148.33	146.74	145.71	145.33	145.21	145.14	144.92
27	.49	.29	149.22	.40	.63	147.74	.54	.70	.53	.22	.11	.93
28	.36	145.83	147.52	145.88	147.85	.54	.43	.69	.53	.19	.13	.93
29	.43	146.23	.31	.83	.73	.11	.39	.69	.48	.17		.92
30	.24	.90	.21	.73	.61	.76	.36	.68	.45	.14		.91
31		.89		.56	.58		.34		.42	.13		.91
Mean	145.17	145.75	146.31	146.05	147.56	149.02	147.25	145.88	145.47	145.26	145.27	145.96
Max.	145.49	147.05	149.22	148.37	154.49	153.67	148.42	146.33	145.67	145.40	145.40	145.07
Min.	145.00	145.20	145.50	145.38	145.80	147.11	146.34	145.68	145.29	145.13	145.11	144.91

WATER YEAR 1961 : Max. 154.49 m. Min. 144.91 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.00	8.40	107	341	34	283	288	75	26	14	14	5.40
2	11	8.20	77	182	57	409	350	71	26	13	13	3.80
3	13	8.80	58	69	104	380	314	58	24	12	12	3.60
4	12	8.00	54	58	120	405	298	54	23	9.80	10	3.80
5	9.00	8.60	209	49	109	377	221	50	22	9.40	9.40	3.80
6	7.60	8.80	129	38	153	360	206	43	20	9.00	9.00	3.80
7	6.60	9.60	148	31	350	286	188	41	20	9.40	9.40	3.60
8	5.60	8.20	100	31	150	1,918	162	39	19	11	10	3.60
9	4.60	8.60	45	38	143	1,923	161	37	18	10	9.80	3.40
10	5.00	12	40	35	132	1,474	132	34	19	10	9.60	3.60
11	4.60	26	30	29	108	1,079	168	34	18	9.60	9.40	3.60
12	4.60	23	24	20	102	669	153	40	18	9.40	9.40	3.40
13	4.40	18	18	23	76	492	213	43	18	9.40	9.20	3.40
14	4.00	148	21	21	54	472	296	40	18	9.20	9.20	3.20
15	5.00	54	27	16	53	534	228	38	18	9.00	9.00	3.20
16	5.00	37	39	13	110	378	159	38	16	9.20	9.20	3.20
17	4.80	18	33	17	134	285	149	46	15	10	10	3.00
18	5.80	17	102	29	126	278	148	42	15	12	12	2.80
19	6.00	18	70	24	97	327	146	40	14	11	11	2.80
20	6.40	23	58	50	86	470	176	39	14	10	10	2.60
21	7.00	19	26	98	73	697	203	34	12	10	10	2.40
22	8.60	17	44	73	477	420	152	31	11	9.80	9.80	3.60
23	8.00	98	27	42	2,403	402	216	32	10	8.80	9.00	3.20
24	7.80	51	30	149	1,687	382	171	32	10	7.60	7.60	2.60
25	7.20	36	21	121	552	369	132	29	10	7.40	7.20	2.60
26	9.00	101	21	79	378	334	116	29	11	8.00	6.80	2.40
27	18	71	494	82	387	240	96	28	19	8.40	6.20	2.60
28	12	36	209	39	256	212	85	27	19	7.80	6.60	2.60
29	15	66	179	36	238	155	81	27	17	7.40		2.40
30	9.00	132	167	30	221	242	78	27	16	6.80		2.20
31		131	20	20	217		76		15	6.60		2.20
Total	235.60	1,229.20	2,607	1,883	9,187	16,252	5,562	1,198	529	295.00	267.80	98.40
Mean	7.85	39.6	86.9	60.7	296	542	185	39.9	17.1	9.52	9.56	3.17
Max.	18	148	494	341	2,403	1,923	350	75	26	14	14	5.40
Min.	4.00	8.00	18	13	34	155	76	27	10	6.60	6.20	2.20
Runoff - mcm.	20.356	106.203	225.245	162.691	793.757	1,404.173	480.557	103.507	45.706	25.488	23.138	8.502

WATER YEAR 1961 : Max. 2,403 Min. 2.20 Mean 107.79 Annual Runoff 3,399.323 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23	18.00	154.95	2,670				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
YOM RIVER BASIN

Mae Yom River at Muang Phrae (Y.1)

Location: Lat 16° - 08' - 32" N, Long 100° - 08' - 07" E, on left bank in front of the district liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +144.90 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.1

Location: On left bank 23 meters downstream from the gage site.
Elevation: +153.810 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: 1939 to date.

Rating Operation:

Period of Rating: 1954, 1956 - 60

Rated by Float: _____

Rated by Current Meter: 1954, 1956 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

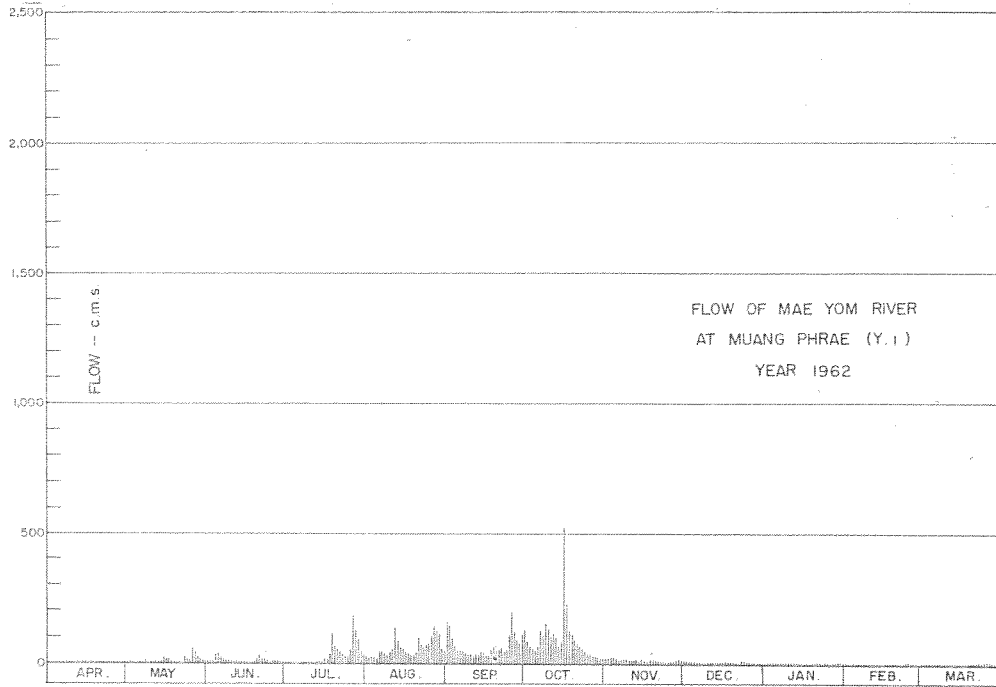
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 60. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	144.91	145.16	145.21	145.13	145.67	147.11	146.80	145.52	145.31	144.94	145.06	145.15
2	.90	.23	.19	.10	.62	.06	.38	.54	.29	.99	144.97	.17
3	.92	.13	.24	.08	.66	146.49	.17	.57	.27	145.06	.93	.16
4	.92	.20	.78	.05	.60	.24	.07	.60	.23	.12	.98	.14
5	.93	.13	.88	.04	.55	145.97	.01	.50	.21	.12	145.03	.08
6	44.92	145.07	145.61	145.03	145.96	146.12	146.26	145.33	145.17	145.03	145.09	145.11
7	.91	.09	.41	.00	.98	.10	.79	.33	.09	.03	.10	.06
8	.91	.25	.37	144.99	.88	145.88	.68	.46	.07	.09	.13	144.96
9	.92	.15	.31	.98	.82	.77	147.09	.43	.09	.09	.03	.96
10	.94	.12	.28	.97	146.00	.80	146.88	.32	.17	.07	.05	145.30
11	144.96	145.18	145.29	145.06	146.14	145.71	146.58	145.33	145.24	145.05	145.03	145.15
12	.97	.13	.28	.06	.92	.77	.70	.33	.19	.03	144.97	.02
13	.93	.09	.21	.06	.40	.80	.52	.36	.16	.02	.95	144.92
14	.91	.15	.17	.11	.19	.95	.23	.20	.12	144.98	.94	.91
15	.92	.61	.15	.16	.07	.89	.41	.45	.05	.93	.99	.95
16	144.94	145.48	145.12	145.39	145.98	145.74	149.35	145.30	145.12	145.04	145.03	145.01
17	.96	.42	.10	.36	.88	.74	147.64	.09	.21	.06	.08	.03
18	.94	.20	.07	.79	.82	146.05	146.85	.38	.22	.08	.11	.05
19	.92	.01	.06	146.70	.80	.17	.69	.37	.06	.09	.14	.05
20	.94	144.98	.65	.16	146.00	.24	.49	.38	.10	.10	.15	.05
21	144.97	144.94	145.76	146.04	146.55	146.21	146.32	145.30	144.99	145.12	145.01	145.06
22	145.01	145.04	.51	145.92	.28	.11	.17	.27	.99	.12	144.93	.09
23	.13	.68	.41	.84	.23	145.98	.06	.13	145.34	.10	145.01	.12
24	.18	.43	.28	.64	.28	146.02	145.97	.16	.28	144.96	.05	.15
25	.12	.51	.22	.61	.36	.62	.89	.27	.22	145.02	.69	.16
26	145.05	146.12	145.19	146.11	146.65	147.42	145.81	145.27	145.15	145.05	145.12	145.15
27	.01	145.90	.17	147.32	.96	146.75	.75	.20	.01	.08	.14	.09
28	144.97	.65	.25	146.80	.81	.51	.57	.32	144.93	.04	.15	.01
29	145.09	.45	.16	.47	.67	.30	.61	.42	.93	.27		144.94
30	.06	.36	.14	.01	.06	.69	.57	.39	.93	.27		.97
31		.28		145.89	145.99		.55		.91	.15		.93
Mean	144.97	145.29	145.31	145.58	146.11	146.21	146.41	145.35	145.13	145.06	145.04	145.06
Max.	145.18	146.12	145.88	147.32	146.96	147.42	149.35	145.60	145.34	145.27	145.15	145.30
Min.	144.90	144.94	145.06	144.97	145.55	145.71	145.55	145.09	144.91	144.93	144.93	144.91

WATER YEAR 1962 : Max. 149.35 m. Min. 144.90 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.20	7.20	8.20	6.60	26	155	122	19	10	2.80	5.20	7.00
2	2.00	8.60	7.80	6.00	23	149	80	20	9.80	3.80	3.40	7.40
3	2.40	6.60	8.80	5.60	26	91	62	21	9.40	5.20	2.60	7.20
4	2.40	8.00	33	5.00	22	67	54	22	8.60	6.40	3.60	6.80
5	2.60	6.60	39	4.80	20	46	49	18	8.20	6.40	4.60	5.60
6	2.40	5.40	23	4.60	45	58	69	11	7.40	4.60	5.80	6.20
7	2.20	5.80	14	4.00	46	56	121	11	5.80	4.60	6.00	5.20
8	2.20	9.00	13	3.80	39	39	110	16	5.40	5.80	6.60	3.20
9	2.40	7.00	10	3.60	35	32	153	15	5.80	5.80	4.60	3.20
10	2.80	6.40	9.60	3.40	48	34	131	11	7.40	5.40	5.00	10
11	3.20	7.60	9.80	5.20	59	29	100	11	8.80	5.00	4.60	7.00
12	3.40	6.60	9.60	5.20	134	32	112	11	7.80	4.60	3.40	4.40
13	2.60	5.80	8.20	5.20	82	34	94	12	7.20	4.40	3.00	2.40
14	2.20	7.00	7.40	6.20	63	44	66	8.00	6.40	3.60	2.80	2.20
15	2.40	23	7.00	7.20	54	39	83	16	5.00	2.60	3.80	3.00
16	2.80	17	6.40	14	46	30	520	10	6.40	4.80	4.60	4.20
17	3.20	15	6.00	12	39	30	226	5.80	8.20	5.20	5.60	4.60
18	2.80	8.00	5.40	33	35	52	127	13	8.40	5.60	6.20	5.00
19	2.40	4.20	5.20	112	34	62	111	13	5.20	5.80	6.80	5.00
20	2.80	3.60	25	61	48	67	91	13	6.60	6.00	7.00	5.00
21	3.40	2.80	32	51	97	65	74	10	3.80	6.40	4.20	5.20
22	4.20	4.80	18	42	70	57	62	9.40	3.80	6.40	2.60	5.80
23	6.60	27	14	36	66	46	53	6.60	12	6.00	4.20	6.40
24	7.60	15	9.60	24	70	50	46	7.20	9.60	3.20	5.00	7.00
25	6.40	18	8.40	23	78	104	39	9.40	8.40	4.40	5.80	7.20
26	5.00	58	7.80	57	107	195	35	9.40	7.00	5.00	6.40	7.00
27	4.20	40	7.40	181	138	117	30	8.00	4.20	5.60	6.80	5.80
28	3.40	25	9.00	122	123	93	21	11	2.60	4.80	7.00	4.20
29	5.80	16	7.20	89	109	72	23	15	2.60	7.60	2.80	2.80
30	5.20	12	6.80	49	53	111	21	14	2.60	9.40	3.40	3.40
31		9.60		39	47		20		2.20	7.00		2.60
Total	103.20	396.60	376.60	1,021.40	1,882	2,056	2,905	376.80	206.00	164.20	137.20	162.00
Mean	3.44	12.8	12.5	32.9	60.7	68.5	93.7	12.6	6.64	5.30	4.90	5.22
Max.	7.60	58	39	181	138	195	520	22	12	9.40	7.00	10
Min.	2.00	2.80	5.20	3.40	20	29	20	5.80	2.20	2.60	2.60	2.20
Runoff - mcm.	8.916	34.266	32.538	88.249	162.605	177.638	250.992	32.555	17.798	14.187	11.854	13.997

WATER YEAR 1962 : Max. 520 Min. 2.00 Mean 26.8 Annual Runoff 845.597 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 16	12.00	149.50	550				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
YOM RIVER BASIN

Mae Yom River at Kaeng Luang, Sukhothai (Y.6)

Location: Lat 17°-26'-03" N, Long 99°-47'-32" E, on left bank 150 meters upstream from Kaeng Luang, 300 meters from Km.8 on highway Si Satchanalai - Sawankhalok, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorders.

Zero Gage at Bottom at: +58.80 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On left bank near the camp of gage observer.
Elevation: +69.132 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly 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: Rather unstable, shifting adjustment is included for flow computation.

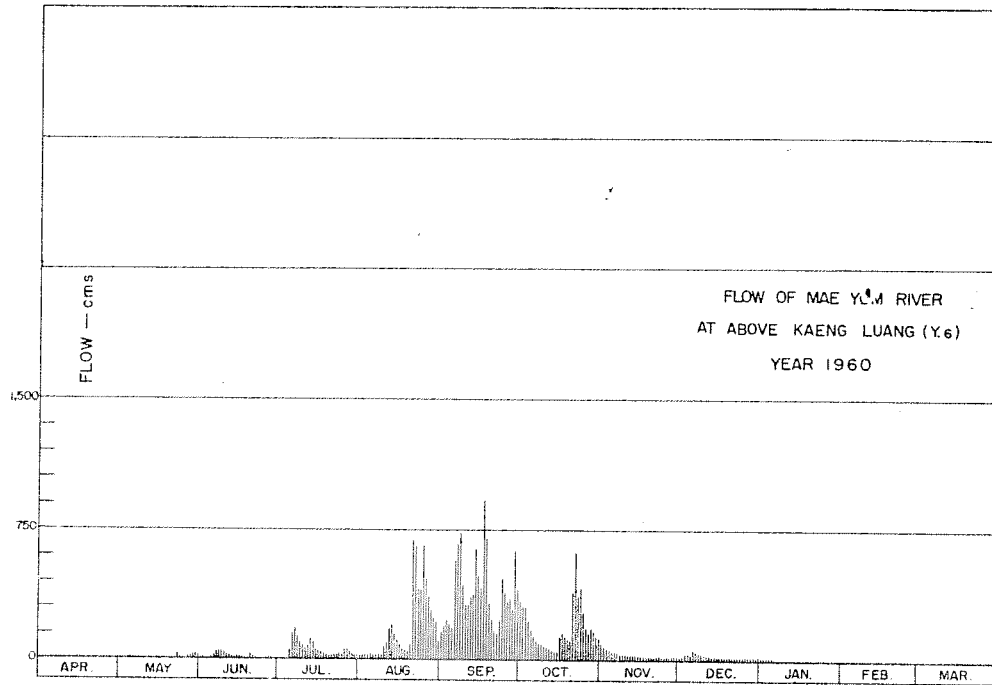
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.51	59.47	60.09	59.82	60.33	61.51	62.40	61.02	60.21	59.93	59.78	59.71
2	.51	.44	59.97	.78	.29	.70	.30	60.90	.24	.93	.78	.69
3	.51	.40	.88	.77	.33	.91	.26	.79	.39	.92	.77	.69
4	.50	.38	.86	.76	.44	.76	61.85	.71	.44	.91	.77	.68
5	.50	.37	60.01	60.64	.44	.63	.55	.65	.43	.90	.77	.67
6	59.50	59.37	60.25	61.39	60.30	63.32	61.34	60.58	60.68	59.90	59.76	59.65
7	.50	.41	.48	.67	.27	.58	.19	.53	.64	.89	.76	.65
8	.49	.41	.58	.35	.34	.81	.07	.47	.52	.89	.76	.64
9	.52	.40	.78	.14	.33	62.78	.05	.46	.42	.89	.76	.64
10	.50	.39	.54	60.93	.89	.30	60.96	.43	.34	.88	.76	.68
11	59.49	59.38	60.30	60.75	61.07	62.30	60.88	60.41	60.30	59.87	59.76	59.68
12	.48	.37	.25	.86	.64	.51	.79	.37	.26	.87	.76	.66
13	.47	.35	.16	61.20	.74	.60	.73	.34	.22	.86	.76	.66
14	.46	.34	.07	.05	.45	63.51	.66	.32	.19	.86	.76	.65
15	.45	.39	.12	60.70	.17	.02	.66	.30	.16	.85	.75	.64
16	59.44	59.96	60.12	60.59	60.99	62.75	61.33	60.29	60.14	59.84	59.75	59.64
17	.44	.88	.06	.50	.80	64.40	.44	.27	.11	.84	.75	.63
18	.44	.80	59.98	.37	.68	63.73	.31	.25	.09	.83	.75	.62
19	.43	.79	.99	.27	.63	62.38	.23	.25	.08	.82	.75	.61
20	.43	.78	60.34	.24	.95	61.89	.21	.24	.06	.81	.75	.60
21	59.42	59.74	60.19	60.25	63.71	61.58	62.68	60.24	60.05	59.81	59.74	59.60
22	.45	.83	.04	.31	.64	.45	63.39	.23	.03	.81	.74	.58
23	.45	60.40	59.95	.30	62.75	.92	62.50	.23	.02	.81	.74	.58
24	.44	.05	.90	.34	.72	62.99	.74	.21	.01	.81	.74	.58
25	.43	59.91	.80	.36	63.44	.60	.09	.23	59.99	.80	.74	.58
26	59.42	59.85	59.85	60.71	63.00	62.79	61.65	60.21	59.99	59.80	59.73	59.58
27	.41	60.17	60.13	.75	62.58	.53	.43	.19	.99	.80	.73	.58
28	.40	.08	.03	.58	.22	.12	.59	.18	.98	.79	.72	.64
29	.39	.26	59.94	.43	61.94	63.42	.42	.19	.96	.78	.78	.61
30	.38	.42	.87	.34	.89	62.77	.40	.18	.95	.78	.78	.60
31		.25		.29	.89		.28		.94	.78		.59
Mean	59.46	59.71	60.12	60.56	61.45	62.58	61.56	60.39	60.19	59.85	59.75	59.63
Max.	59.51	60.42	60.78	61.67	63.71	64.40	63.39	61.02	60.68	59.93	59.78	59.71
Min.	59.38	59.34	59.80	59.76	60.27	61.45	60.66	60.18	59.94	59.78	59.72	59.58

WATER YEAR 1960 : Max. 64.40 m. Min. 59.34 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.81	1.10	21	8.40	35	170	341	99	29	18	7.46	5.30
2	0.81	0.71	15	8.00	32	200	318	79	30	18	7.46	5.07
3	0.81	0.42	12	7.19	37	235	310	70	39	18	7.19	5.07
4	0.81	0.32	10	6.11	42	214	234	62	43	17	7.19	4.84
5	0.81	0.29	17	63	41	195	175	57	41	17	7.19	4.38
6	0.71	0.26	32	161	33	578	141	52	62	15	6.92	3.92
7	0.71	0.42	47	193	33	674	120	48	58	13	6.92	3.92
8	0.61	0.42	57	149	35	737	104	43	48	13	6.92	3.92
9	0.81	0.32	74	119	35	434	101	42	41	13	6.92	3.69
10	0.71	0.32	50	93	84	324	88	40	37	12	6.92	4.61
11	0.71	0.26	33	74	106	320	77	40	34	12	6.92	4.84
12	0.61	0.22	30	83	195	363	71	35	32	12	6.92	4.61
13	0.61	0.16	24	127	205	387	63	35	29	12	6.92	4.61
14	0.52	0.13	19	106	158	645	56	34	26	11	6.92	4.15
15	0.52	0.32	23	68	117	491	55	32	24	11	6.65	3.92
16	0.42	15	24	56	93	419	144	31	25	10	6.65	3.92
17	0.52	8.80	20	48	73	920	159	30	23	10	6.65	3.92
18	0.52	6.92	14	38	61	706	138	28	21	9.60	6.65	3.69
19	0.52	6.65	14	32	56	337	124	29	21	10	6.65	3.23
20	0.52	6.11	35	30	89	238	123	28	20	9.60	6.65	3.00
21	0.52	5.07	27	32	690	183	400	27	18	9.20	6.38	3.00
22	0.81	8.00	18	35	661	158	620	28	17	8.80	6.38	2.83
23	0.81	40	14	34	414	240	374	30	17	8.40	6.38	2.83
24	0.81	18	12	37	410	475	419	27	17	8.40	6.38	2.83
25	0.71	12	10	37	614	389	276	28	17	8.00	6.38	2.83
26	0.61	9.60	10	64	467	441	191	27	18	8.00	6.11	2.66
27	0.52	27	23	68	376	369	159	26	18	8.00	6.11	2.66
28	0.42	23	19	53	296	286	186	26	18	7.73	5.84	3.69
29	0.32	34	14	41	242	629	159	27	19	7.46	5.84	3.23
30	0.32	42	11	35	225	419	147	26	18	7.46	5.84	3.00
31	0.32	30		32	218		130		18	7.46		3.00
Total	18.92	297.82	729	1,937.70	6,173	12,177	6,003	1,166	878	350.11	188.63	117.17
Mean	0.63	9.61	24.3	62.5	199	406	194	39.5	28.3	11.3	6.75	3.77
Max.	0.81	42	74	193	690	920	620	99	62	18	7.46	5.30
Min.	0.32	0.13	10	6.11	32	153	55	26	17	7.46	5.84	2.66
Runoff - mcm.	1.635	25.732	62.986	167.417	533.347	1,052.093	518.659	102.470	75.859	30.249	16.298	10.123

WATER YEAR 1960 : Max. 920 Min. 0.13 Mean 82.3 Annual Runoff 2,596.869 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.17	18.00	64.66	1,014				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
YOM RIVER BASIN

Mae Yom River at Kaeng Luang, Sukhothai (Y.6)

Location: Lat 17° - 26' - 03" N, Long 99° - 47' - 32" E, on left bank 150 meters upstream from Kaeng Luang, 300 meters from Km.8 on highway Si Satchanalai - Sawankhalok, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorders.

Zero Gage at Bottom at: +58.80 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On left bank near the camp of gage observer.

Elevation: +69.132 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

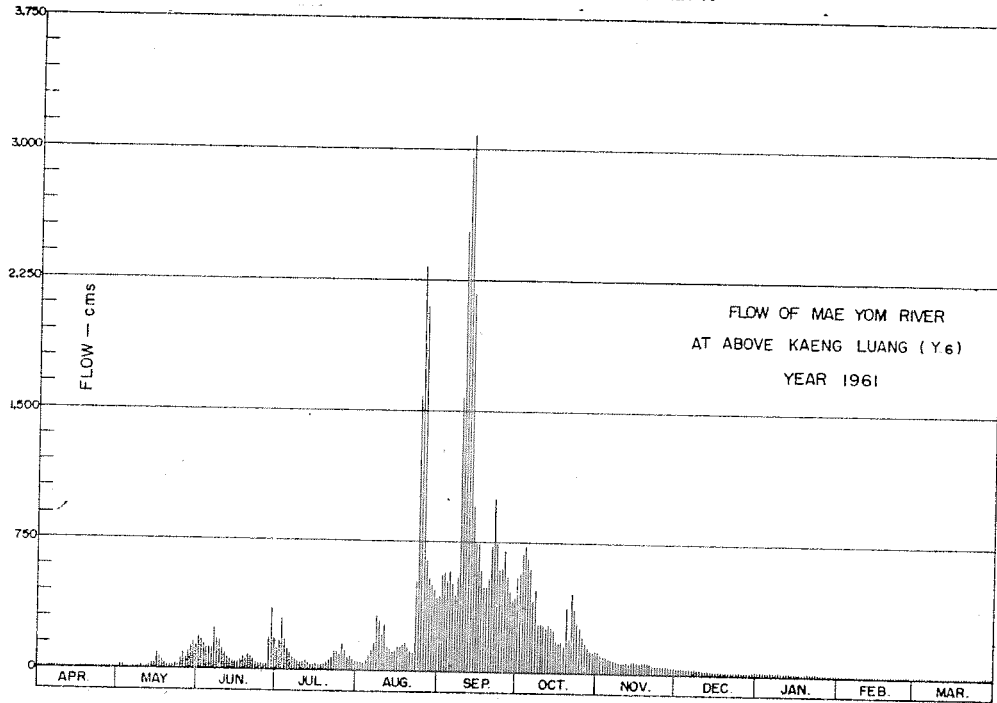
General Description: Records good. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.63	59.91	61.64	61.28	60.57	62.85	63.25	61.19	60.43	60.15	59.90	59.86
2	.62	60.16	.57	.56	.51	63.27	.54	.10	.41	.12	.88	.84
3	.72	.15	.39	62.24	.51	.36	.72	.04	.39	.10	.87	.81
4	.84	59.92	.22	61.65	.78	.18	.85	60.99	.38	.09	.85	.82
5	.79	.87	.22	.24	.94	.38	.62	.94	.36	.08	.87	.80
6	59.86	59.84	61.86	61.00	61.19	63.14	63.40	60.90	60.34	60.07	59.85	59.77
7	.90	.82	.94	60.83	.50	62.85	62.76	.85	.33	.04	.84	.73
8	.85	.82	.56	.70	62.34	63.28	.97	.81	.31	.04	.86	.72
9	.81	.85	.56	.60	.19	65.96	.15	.77	.29	.05	.85	.72
10	.77	60.01	.21	.51	61.80	67.70	.16	.72	.27	.03	.84	.72
11	59.75	59.97	60.95	60.55	61.55	68.32	62.11	60.71	60.25	60.02	59.83	59.71
12	.72	.98	.78	.64	.33	.51	.02	.74	.23	.01	.82	.70
13	.70	60.11	.67	.53	.23	67.11	.12	.72	.22	59.99	.82	.70
14	.67	.43	.57	.42	.15	64.51	.08	.79	.21	.99	.82	.70
15	.65	.30	.51	.45	.18	63.81	61.97	.80	.20	.98	.81	.69
16	59.65	60.94	60.54	60.46	61.38	63.90	61.66	60.73	60.19	59.97	59.80	59.70
17	.64	.84	.64	.32	.37	.39	.59	.68	.18	.97	.77	.71
18	.64	.56	.82	.34	.45	.06	.61	.67	.16	.96	.74	.70
19	.64	.41	.75	.40	.53	.12	.44	.73	.16	.96	.70	.69
20	.74	.18	.95	.57	.34	.27	62.62	.71	.17	.99	.68	.68
21	59.68	60.15	60.83	60.73	61.17	63.87	61.73	60.66	60.15	59.99	59.67	59.68
22	.67	.21	.66	.85	.11	64.63	62.94	.62	.15	60.00	.67	.68
23	.66	.26	.51	61.17	63.15	63.59	.53	.58	.12	.00	.66	.67
24	.65	.24	.44	.14	65.99	.41	.17	.55	.11	59.98	.67	.66
25	.65	.79	.46	60.96	67.37	.29	.07	.54	.07	.97	.76	.66
26	59.73	61.00	60.30	61.44	66.97	63.76	61.78	60.52	60.05	59.96	59.83	59.67
27	.79	60.77	.34	.18	63.59	.30	.56	.51	.03	.92	.84	.70
28	.82	61.07	61.66	60.89	.25	62.97	.41	.49	.02	.90	.84	.71
29	.82	.34	62.49	.88	.08	.77	.28	.46	.01	.89	.68	.68
30	.81	.46	61.64	.77	.01	.85	.20	.45	.07	.91	.67	.67
31		.34		.62	62.83		.26		.16	.92		.67
Mean	59.73	60.38	61.05	60.87	62.17	64.08	62.27	60.73	60.21	60.00	59.80	59.72
Max.	59.90	61.46	62.49	62.24	67.37	68.51	63.85	61.19	60.43	60.15	59.90	59.86
Min.	59.62	59.82	60.30	60.32	60.51	62.77	61.20	60.45	60.01	59.89	59.66	59.66

WATER YEAR 1961 : Max. 68.51 m. Min. 59.62 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.69	12	186	133	54	437	546	121	42	24	12	10
2	3.46	25	175	179	49	552	571	110	41	22	11	9.00
3	5.80	24	149	300	49	577	686	103	39	21	11	8.00
4	9.60	13	125	188	74	526	728	97	39	21	10	9.00
5	7.41	11	125	128	91	582	654	91	37	20	11	8.00
6	10	9.60	231	98	123	515	588	86	36	20	10	7.00
7	12	8.80	241	79	164	437	414	81	35	18	10	6.00
8	10	8.80	174	66	321	554	468	77	34	18	10	6.00
9	8.40	10	174	56	290	1,578	278	73	33	19	10	6.00
10	6.95	17	123	49	214	2,528	284	68	31	18	10	6.00
11	6.49	15	92	52	172	2,944	274	67	30	17	9.00	6.00
12	5.80	15	74	60	140	3,077	256	70	29	17	9.00	5.00
13	5.30	22	63	50	126	2,172	276	68	23	16	9.00	5.00
14	4.61	42	54	42	116	953	258	75	28	16	9.00	5.00
15	4.15	33	49	42	120	715	246	76	27	15	8.00	5.00
16	4.15	94	51	45	147	744	190	69	27	15	8.00	5.00
17	3.92	80	60	35	146	585	178	64	26	15	7.00	6.00
18	3.92	53	78	36	154	493	182	63	25	14	6.00	5.00
19	3.92	41	71	40	169	510	156	69	25	14	5.00	5.00
20	6.26	26	92	54	142	552	381	67	26	16	5.00	5.00
21	4.84	24	79	69	118	734	201	62	24	15	5.00	5.00
22	4.61	28	62	81	111	996	460	58	23	16	5.00	5.00
23	4.38	31	49	118	565	745	361	54	22	16	4.00	5.00
24	4.15	30	43	115	1,602	591	286	52	22	15	5.00	4.00
25	4.15	71	45	93	2,331	557	266	51	20	15	7.00	4.00
26	6.03	98	33	156	2,141	699	210	50	19	14	9.00	5.00
27	7.41	73	36	120	649	560	174	49	18	13	9.00	5.00
28	8.80	106	253	85	546	468	151	47	17	12	9.00	6.00
29	8.80	144	357	84	498	417	133	45	17	12	9.00	6.00
30	8.40	161	186	73	479	437	122	44	20	12	5.00	5.00
31		143		58	432		130		25	13		5.00
Total	187.40	1,469.20	3,530	2,784	12,333	27,235	10,118	2,107	865	510	233	181
Mean	6.25	47.4	118	89.8	398	908	326	70.2	27.9	16.4	8.32	5.84
Max.	12	161	357	300	2,331	3,077	728	121	42	24	12	10
Min.	3.46	8.80	33	35	49	417	122	44	17	12	4.00	4.00
Runoff - mcm.	16.191	126.939	304.992	240.538	1,065.571	2,353.104	874.195	182.045	74.736	44.064	20.131	15.638

WATER YEAR 1961 : Max. 3,077 Min. 3.46 Mean 169 Annual Runoff 5,318.145 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.12	03.00	68.56	3,112				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
YOM RIVER BASIN

Mae Yom River at Kaeng Luang, Sukhothai (Y.6)

Location: Lat 17° - 26' - 03" N, Long 99° - 47' - 32" E, on left bank 150 meters upstream from Kaeng Luang, 300 meters from Km.8 on highway Si Satchanalai - Sawankhalok, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorders.

Zero Gage at Bottom at: +58.80 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On left bank near the camp of gage observer.
Elevation: +69.132 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1952 to date.

Rating Operation:

Period of Rating: 1952 to date.
Rated by Float: -
Rated by Current Meters: 1952 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

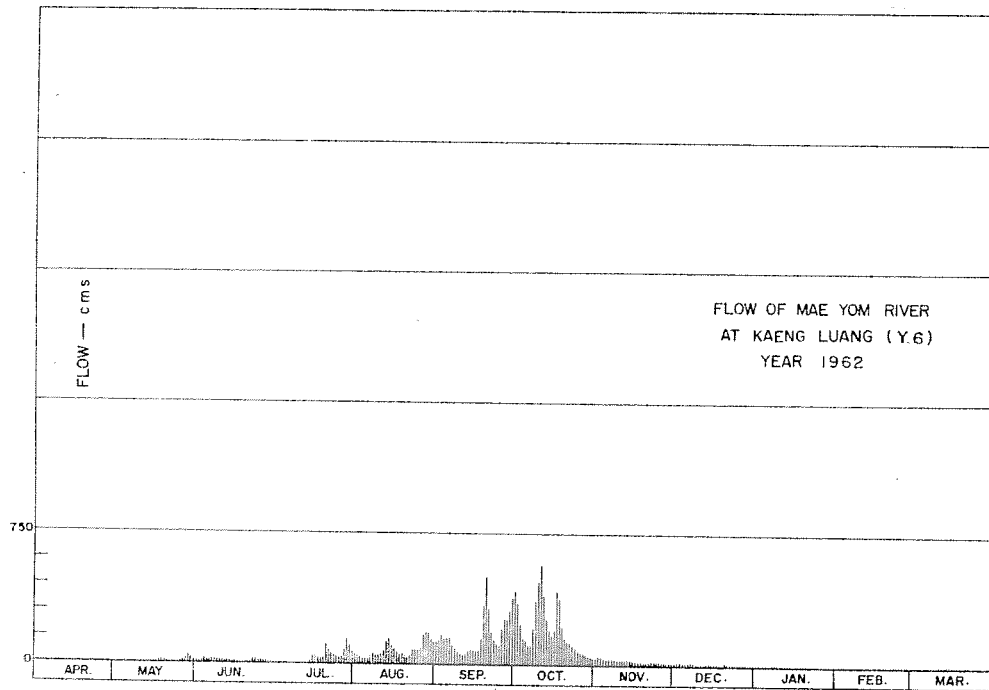
General Description: Records good. The data presented is made by discharge measurements during 1962. Upstream state diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.66	59.77	60.16	59.95	60.87	61.56	63.20	60.59	60.06	59.89	59.62	59.59
2	.65	.73	.08	.91	.70	.60	62.92	.60	.13	.87	.62	.58
3	.65	.76	.22	.87	.58	.83	.22	.57	.15	.80	.78	.57
4	.64	.80	.48	.86	.50	.63	61.77	.49	.14	.77	.83	.57
5	.64	.88	.29	.87	.47	.68	.49	.48	.13	.77	.80	.55
6	59.63	59.88	60.22	59.85	60.46	61.77	61.31	60.51	60.09	59.76	59.75	59.55
7	.63	.83	.36	.82	.63	.35	.37	.48	.06	.88	.70	.54
8	.63	.86	.38	.78	.79	.17	62.07	.38	.05	.90	.67	.54
9	.62	.89	.30	.76	.73	.06	.89	.30	.02	.85	.64	.53
10	.62	.85	.19	.75	.74	60.92	63.38	.34	.01	.84	.62	.54
11	59.63	59.93	60.12	59.74	60.79	60.79	63.82	60.41	60.00	59.85	59.60	59.75
12	.62	.95	.06	.73	61.06	.82	.08	.34	.00	.81	.70	.72
13	.62	.85	.04	.76	.51	61.03	62.43	.32	.00	.82	.78	.68
14	.61	.79	.04	.85	.58	.16	.05	.32	.01	.82	.73	.90
15	.60	.80	.00	60.17	.29	.11	61.76	.29	.01	.80	.68	.86
16	59.60	59.83	59.95	60.65	61.09	61.04	61.95	60.22	59.99	59.79	59.68	59.80
17	.59	.79	.93	.78	60.97	.00	63.19	.19	.99	.78	.70	.73
18	.57	60.07	.91	.49	.86	.58	.02	.28	.94	.77	.70	.67
19	.57	.18	.94	.37	.79	62.76	62.20	.20	.89	.75	.68	.65
20	.57	.09	.98	.54	.68	63.49	61.75	.08	60.08	.72	.67	.63
21	59.58	59.97	59.96	61.42	60.58	62.71	61.50	60.14	60.07	59.69	59.65	59.60
22	.57	.88	.92	.18	.68	61.99	.40	.28	59.95	.67	.62	.59
23	.60	.90	60.35	60.91	61.13	.59	.31	.25	.87	.66	.60	.57
24	.66	.83	.34	.76	.12	.36	.18	.20	.88	.65	.59	.55
25	.67	.78	.21	.63	.00	.48	.04	.17	.84	.64	.57	.53
26	59.64	60.08	60.14	60.53	61.19	61.98	60.94	60.09	59.87	59.81	59.57	59.51
27	.70	.17	.07	.60	.75	62.46	.84	.02	60.00	.80	.56	.51
28	.80	.34	.01	61.12	.93	.36	.76	.09	59.95	.74	.58	.53
29	.81	.62	59.96	.60	.90	.62	.69	.14	.87	.70		.53
30	.82	.43	.93	.33	.63	63.02	.64	.04	.81	.67		.52
31		.27		.06	.47		.59		.78	.64		.51
Mean	59.64	59.96	60.12	60.37	61.01	61.70	61.89	60.29	59.99	59.77	59.67	59.61
Max.	59.82	60.62	60.48	61.60	61.93	63.49	63.82	60.60	60.15	59.90	59.83	59.90
Min.	59.57	59.73	59.91	59.73	60.46	60.79	60.59	60.02	59.78	59.64	59.56	59.51

WATER YEAR 1962 : Max. 63.82 m. Min. 59.51 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.20	5.40	18	11	61	135	422	41	15	9.60	2.40	1.90
2	3.00	4.60	15	10	50	141	358	49	18	9.00	2.40	1.80
3	3.00	5.20	21	8.70	46	174	229	45	18	6.00	5.60	1.70
4	2.80	6.00	35	8.40	39	144	159	37	19	5.80	6.90	1.70
5	2.80	8.40	24	9.60	36	153	138	35	18	6.30	6.00	1.50
6	2.60	8.40	21	8.70	35	161	110	36	17	6.30	5.00	1.50
7	2.60	6.90	28	7.80	48	112	110	38	17	10	4.00	1.40
8	2.60	7.80	29	6.60	62	91	208	33	16	10	3.40	1.40
9	2.40	8.70	25	6.30	54	78	364	27	14	7.80	2.80	1.30
10	2.40	7.50	20	6.00	55	62	472	30	12	7.50	2.40	1.40
11	2.60	9.90	17	5.80	58	59	571	34	13			
12	2.40	10	14	5.60	83	60	395	30	12	7.50	2.00	5.00
13	2.40	7.50	19	6.30	134	77	258	30	13	7.50	4.00	4.40
14	2.20	5.80	18	8.40	145	89	202	31	13	7.50	5.60	3.60
15	2.00	6.00	15	20	111	87	167	26	14	7.20	4.60	9.00
16	2.00	6.90	13	48	89	84	196	24	13		3.60	7.80
17	1.90	5.80	13	58	76	60	422	21	13	6.90	3.60	6.00
18	1.70	15	12	38	58	144	384	24	11	6.60	4.00	4.60
19	1.70	19	14	31	62	340	223	19	8.40	6.30	4.00	3.40
20	1.70	16	15	44	52	501	164	14	18	5.80	3.60	3.00
21	1.80	11	15	116	42	322				5.00	3.40	2.60
22	1.70	8.40	14	89	50	194	134	16	15	4.20	3.00	2.00
23	2.00	9.00	30	62	87	145	122	27	12	4.00	2.40	1.90
24	3.20	6.90	29	56	88	122	109	24	9.60	3.60	2.00	1.70
25	3.40	5.60	23	50	80	128	96	18	9.90	3.20	1.90	1.50
26	2.80	15	21	42	97	199	81	19	10	3.00	1.70	1.30
27	4.00	19	18	45	166	266	69	17	8.40	6.60	1.70	1.10
28	6.00	27	16	89	191	255	67	14	14	6.60	1.60	1.10
29	6.30	46	13	145	185	304	57	15	11	5.40	1.80	1.30
30	6.60	32	11	115	153	384	46	16	8.40	4.60	1.60	1.30
31		23		79	130		44	14	6.30	4.20	1.20	1.20
									5.60	3.20	1.10	1.10
Total	85.80	373.70	581	1,236.20	2,623	5,091	6,425	804	402.60	194.40	95.40	80.50
Mean	2.86	12.0	19.3	39.9	84.6	170	207	26.8	13.0	6.27	3.41	2.60
Max.	6.60	46	35	145	191	501	571	49	19	10	6.90	9.00
Min.	1.70	4.60	11	5.60	35	59	44	14	5.60	3.00	1.60	1.10
Runoff - mcm.	7.413	32.288	50.198	106.808	226.627	439.862	555.120	69.466	34.783	16.796	8.242	6.955

WATER YEAR 1962 : Max. 571 Min. 1.10 Mean 49.3 Annual Runoff 1,554.561 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	06.00	63.82	571				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
YOM RIVER BASIN

Mae Yom River at Ban Nun, Phrae (Y.11)

Location: Lat 18° - 30' - 23" N, Long 100° - 00' - 32" E, on left bank at Ban Wang Din, Tambon Ban Nun, 4.5 kilometers west of the country road Amphoe Ngao - Amphoe Song at Ban Pa Daeng, Amphoe Song, Phrae.

Drainage Area: 5.542 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +174.00 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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: 1949 - 60

Rating Operation:

Period of Rating: 1955 - 56
Rated by Float: -
Rated by Current Meter: 1955 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1958 - 56.

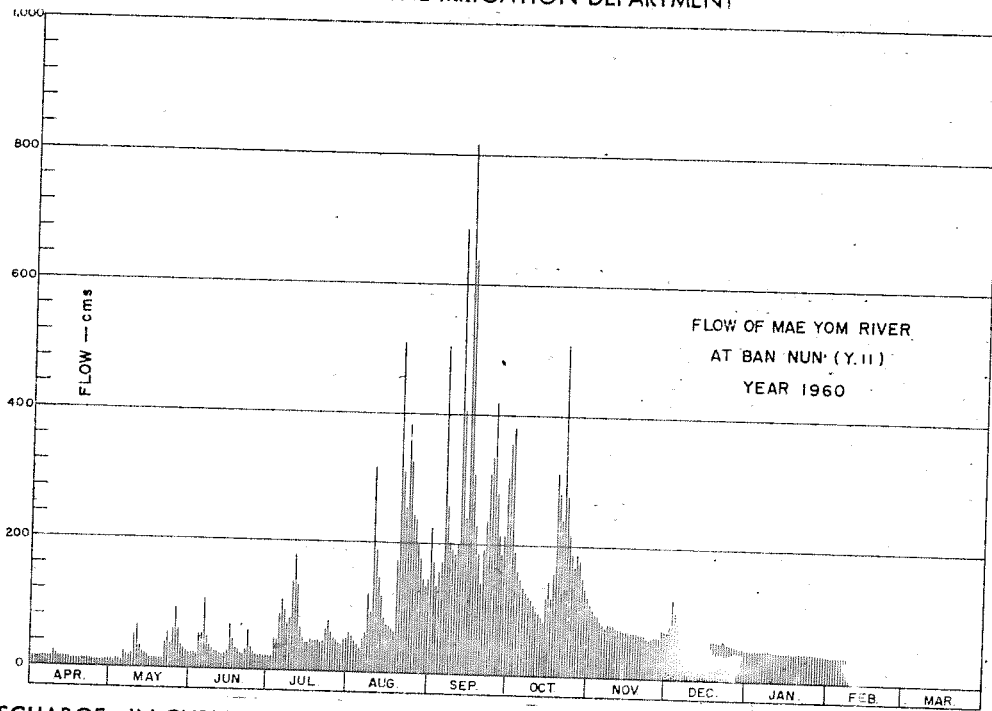
Remarks: Ending of the record on Feb.9, 1961

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.58	174.54	174.73	174.70	175.13	176.12	176.68	175.52	175.23	175.00	174.92	
2	.58	.53	.75	.71	.08	175.86	.77	.46	.31	174.99	.92	
3	.58	.56	.70	175.00	.00	.67	175.96	.41	.58	.99	.92	
4	.58	.54	175.06	.00	174.94	.79	.81	.40	.46	.98	.92	
5	.58	.53	.07	.35	.88	.87	.74	.32	.34	.98	.92	
6	174.58	174.74	175.49	175.51	175.05	177.20	175.67	175.30	175.29	174.98	174.92	
7	.58	.67	.02	.40	.15	176.28	.62	.26	.25	.99	.92	
8	.58	.65	174.88	.24	.58	.02	.58	.30	.21	.99	.91	
9	.69	.72	.82	.29	.41	175.97	.55	.29	.20	.98	.87	
10	.65	175.03	.79	.68	176.53	.93	.50	.28	.17	.98		
11	174.60	175.18	174.76	175.90	175.95	176.01	175.44	175.26	175.17	174.97	Ending on	Feb. 9, 1961
12	.59	174.84	.74	.65	.74	177.74	.43	.25	.14	.97		
13	.57	.73	.70	.18	.57	176.86	.38	.24	.15	.97		
14	.56	.69	.72	.04	.33	.20	.33	.22	.14	.96		
15	.56	.66	.79	174.97	.24	178.09	.56	.21	.13	.96		
16	174.55	174.62	175.21	174.96	175.23	177.61	175.73	175.22	175.13	174.96		
17	.55	.61	.00	175.01	.19	176.49	.57	.20	.12	.96		
18	.55	.61	174.84	174.99	.16	.15	.79	.20	.11	.95		
19	.55	.58	.81	175.00	.88	175.94	176.50	.19	.11	.95		
20	.54	.58	.74	174.99	177.22	.69	.38	.18	.10	.95		
21	174.54	174.58	174.72	174.97	176.50	175.97	176.20	175.17	175.09	174.95		
22	.54	.93	.83	175.01	.27	176.18	.22	.16	.09	.95		
23	.54	175.08	175.12	.17	.78	.50	176.36	.13	.09	.95		
24	.53	174.89	174.85	.28	.56	.60	.10	.11	.07	.95		
25	.53	175.14	.79	.13	.21	.91	175.94	.13	.06	.94		
26	174.52	175.40	174.73	175.04	176.09	176.38	175.84	175.15	175.05	174.94		
27	.52	.13	.70	.01	.01	.08	.94	.14	.03	.94		
28	.52	174.90	.71	174.98	175.89	175.93	.89	.15	.02	.94		
29	.52	.81	.70	.95	.72	176.08	.75	.24	.01	.94		
30	.55	.76	.71	175.04	.66	.47	.66	.22	.01	.93		
31		.73		.05	.73		.58		.00	.93		
Mean	174.56	174.77	174.85	175.13	175.70	176.35	175.89	175.24	175.16	174.96		
Max.	174.69	175.40	175.49	175.90	177.22	178.09	177.72	175.52	175.58	175.00		
Min.	174.52	174.53	174.70	174.70	174.88	175.67	175.33	175.11	175.00	174.93		

WATER YEAR 1960 : Max. 178.09 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	12	24	21	60	223	355	110		47	39	
2	14	11	25	22	55	170	379	101		46	39	
3	14	13	21	47	47	135	190	94	120	46	39	
4	14	12	53	47	41	156	160	93	101	45	39	
5	14	11	54	86	36	172	147	83	85	45	39	
6	14	24	106	109	92	502	135	80	79	45	39	
7	14	19	49	93	62	258	126	75	74	46	39	
8	14	18	36	73	120	202	120	80	69	46	38	
9	21	23	31	79	94	192	115	79	68	45	38	
10	18	50	28	137	316	184	107	78	65	45	35	
11	35	66	26	178	188	200	99	75	65	44		
12	14	32	24	131	147	684	97	74	61	44	Ending on	Feb.9,1961
13	13	24	21	66	118	403	90	73	62	44		
14	13	21	23	51	84	240	84	70	61	43		
15	13	19	28	44	73	815	117	69	60	43		
16	12	16	69	43	72	638	145					
17	12	16	47	48	67	307	118	70	60	43		
18	12	16	32	46	64	229	156	68	59	43		
19	12	14	30	47	174	186	309	68	58	42		
20	12	14	24	46	508	138	280	67	58	42		
21	12	14	23	44	309	192	240	65	56	42		
22	12	40	31	48	255	236	508	64	56	42		
23	12	55	59	65	382	309	276	60	56	42		
24	11	37	33	78	324	334	218	58	54	42		
25	11	61	28	60	242	417	186	60	53	41		
26	11	93	24	51	216	280	166	62	52	41		
27	11	60	21	48	200	214	186	61	50	41		
28	11	37	22	45	176	184	176	62	49	41		
29	11	30	21	42	144	214	149	73	48	41		
30	12	26	22	51	133	302	133	70	48	40		
31		24		52	145		120		47	40		
Total	393	908	1,035	1,998	4,904	8,716	5,687	2,208	1,984	1,339		
Mean	13.1	29.3	34.5	64.4	158	290	183	73.6	64.0	43.2		
Max.	21	93	106	178	508	815	508	110	120	47		
Min.	11	11	21	21	36	135	84	58	47	40		
Runoff - BCR.	33.955	78.451	89.424	172.627	423.706	753.062	491.357	190.771	171.418	115.690		

WATER YEAR 1960 : Max. 815 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.15	18.00	178.48	972				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
YOM RIVER BASIN

Ngao Creek at Ngao Bridge, 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. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +266.79 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.14

Location: On left bank 100 meters upstream from gage site.
Elevation: +272.896 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 - 58
Rated by Float: -
Rated by Current Meter: 1957 - 58

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

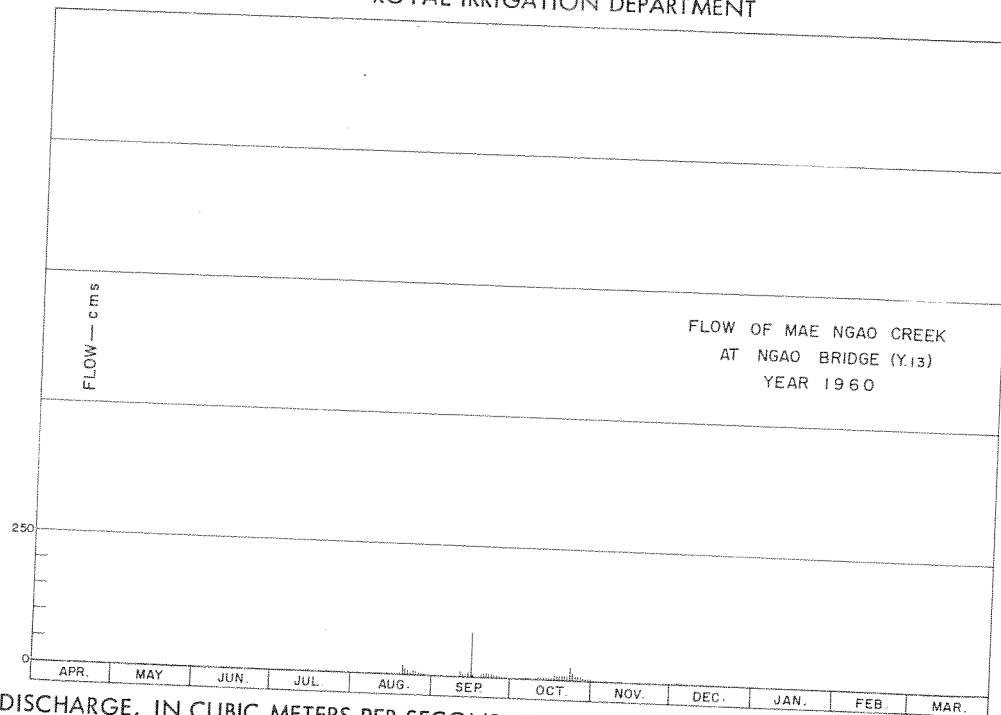
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 58. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	266.90	266.95	266.98	267.02	267.02	267.08	267.13	267.24	267.21	266.92	266.92	266.94
2	.89	.94	.98	.02	.04	.09	.18	.20	.26	.93	.94	.92
3	.89	.94	.99	.06	.04	.11	.09	.19	.30	.95	.94	.91
4	.89	.94	267.03	.13	.06	.17	.05	.17	.28	.96	.95	.90
5	.89	.93	.06	.14	.07	.22	.01	.14	.25	.95	.95	.90
6	266.89	266.94	267.07	267.19	267.07	267.87	267.08	267.16	267.24	266.94	266.97	266.91
7	.90	.94	.09	.20	.05	.77	.17	.12	.23	.93	.98	.92
8	.91	.94	.09	.21	.07	.57	.21	.09	.18	.95	.97	.95
9	.91	.94	.09	.25	.09	.55	.18	.09	.17	.97	.95	.97
10	.91	.95	.10	.28	.10	.54	.25	.09	.14	.97	.94	.95
11	266.90	266.95	267.11	267.28	267.11	267.46	267.26	267.05	267.13	266.98	266.94	266.92
12	.90	.95	.12	.27	.14	.34	.27	.04	.15	.96	.92	.91
13	.89	.95	.12	.24	.19	.25	.26	.03	.11	.94	.92	.92
14	.89	.93	.15	.24	.18	.15	.33	.01	.08	.93	.96	.92
15	.89	.93	.16	.21	.18	268.32	.27	.01	.07	.92	.95	.91
16	266.89	266.93	267.13	267.19	267.18	267.89	267.31	267.00	267.06	266.92	266.95	266.89
17	.88	.92	.09	.18	.20	.76	.46	266.99	.07	.91	.95	.89
18	.88	.92	.09	.17	.21	.55	.44	.99	.04	.91	.94	.89
19	.88	.93	.07	.14	.26	.40	.40	267.00	.04	.93	.93	.89
20	.88	.98	.06	.12	.69	.35	.45	.03	.01	.93	.93	.90
21	266.89	266.98	267.05	267.09	267.50	267.46	267.49	267.06	266.98	266.95	266.96	266.94
22	.89	267.02	.04	.09	.43	.45	.46	.01	267.01	.93	.97	.96
23	.89	.04	.04	.07	.26	.37	.78	.01	.00	.94	.95	.97
24	.89	.07	.01	.07	.41	.31	.58	266.98	266.96	.94	.95	.95
25	.89	.22	.01	.07	.39	.30	.40	267.01	.98	.94	.94	.93
26	266.89	267.13	267.04	267.05	267.33	267.25	267.40	267.03	266.96	266.93	266.93	266.93
27	.89	.08	.00	.05	.24	.23	.36	.02	.95	.94	.94	.92
28	.89	.06	266.99	.04	.17	.17	.28	266.97	.96	.93	.93	.91
29	.97	.02	.99	.04	.14	.09	.26	267.09	.95	.92	.92	.90
30	.99	.01	.99	.03	.10	.12	.28	.14	.92	.92	.92	.90
31		266.99	.03	.03	.07	.07	.25		.92	.91		.90
Mean	266.90	266.98	267.06	267.13	267.19	267.41	267.30	267.06	267.08	266.94	266.94	266.92
Max.	266.99	267.22	267.16	267.28	267.69	268.32	267.78	267.24	267.30	266.98	266.98	266.97
Min.	266.88	266.92	266.98	267.02	267.02	267.08	267.01	266.97	266.92	266.91	266.92	266.90

WATER YEAR 1960 : Max. 268.32 m. Min. 266.88 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	0.35	0.44	0.60	0.60	0.90	1.36	2.84	2.36	0.26	0.26	0.32
2	0.18	0.32	0.44	0.60	0.70	0.95	1.96	2.20	3.16	0.29	0.32	0.26
3	0.18	0.32	0.47	0.80	0.70	1.12	0.95	2.08	3.80	0.35	0.32	0.23
4	0.18	0.32	0.65	1.36	0.80	1.84	0.75	1.84	3.48	0.38	0.35	0.20
5	0.18	0.29	0.80	1.48	0.85	2.52	0.55	1.48	3.00	0.35	0.35	0.20
6	0.18	0.32	0.85	2.08	0.85	32	0.90	1.72	2.84	0.32	0.41	0.23
7	0.20	0.32	0.95	2.20	0.75	24	1.84	1.24	2.68	0.29	0.44	0.26
8	0.23	0.32	0.95	2.36	0.85	17	2.36	0.95	1.96	0.35	0.41	0.35
9	0.23	0.32	0.95	3.00	0.95	12	1.96	0.95	1.84	0.41	0.35	0.41
10	0.23	0.35	1.00	3.48	1.00	11	3.00	0.95	1.48	0.41	0.32	0.35
11	0.20	0.35	1.12	3.48	1.12	8.32	3.16	0.75	1.36	0.44	0.32	0.26
12	0.20	0.35	1.24	3.32	1.48	4.84	3.32	0.70	1.60	0.38	0.26	0.23
13	0.18	0.29	1.24	2.84	2.08	3.00	3.16	0.65	1.12	0.32	0.26	0.26
14	0.18	0.29	1.60	2.84	1.96	1.60	4.58	0.55	0.90	0.29	0.32	0.26
15	0.18	0.29	1.72	2.36	1.96	85	3.32	0.55	0.85	0.26	0.35	0.23
16	0.18	0.29	1.36	2.08	1.96	33	4.06	0.50	0.80	0.26	0.35	0.18
17	0.16	0.26	0.95	1.96	2.20	23	8.32	0.47	0.85	0.23	0.35	0.18
18	0.16	0.26	0.95	1.84	2.36	12	7.68	0.47	0.70	0.23	0.32	0.18
19	0.16	0.29	0.85	1.48	3.16	6.40	6.40	0.50	0.70	0.29	0.29	0.18
20	0.16	0.29	0.80	1.24	19	5.10	8.00	0.65	0.55	0.29	0.29	0.20
21	0.18	0.44	0.75	0.95	9.60	8.32	9.28	0.80	0.44	0.35	0.32	0.32
22	0.18	0.60	0.70	0.95	7.36	8.00	8.32	0.55	0.55	0.29	0.41	0.38
23	0.18	0.70	0.70	0.85	3.16	5.62	25	0.55	0.50	0.32	0.35	0.41
24	0.18	0.85	0.55	0.85	6.72	4.06	13	0.44	0.38	0.32	0.35	0.35
25	0.18	2.52	0.55	0.85	6.14	3.80	6.40	0.55	0.44	0.32	0.32	0.29
26	0.18	1.36	0.70	0.75	4.58	3.00	6.40	0.65	0.38	0.29	0.29	0.29
27	0.18	0.90	0.50	0.75	2.84	2.68	5.36	0.60	0.35	0.32	0.32	0.26
28	0.18	0.80	0.47	0.70	1.84	1.84	3.48	0.41	0.38	0.29	0.29	0.23
29	0.41	0.60	0.47	0.70	1.48	0.95	3.16	0.95	0.35	0.26	0.26	0.20
30	0.47	0.55	0.47	0.65	1.00	1.24	3.48	1.48	0.26	0.26	0.26	0.20
31	0.47	0.47	0.65	0.65	0.85		3.00		0.26	0.23		0.20
Total	6.07	15.98	25.19	50.05	90.90	325.10	154.51	29.02	40.32	9.65	9.41	8.10
Mean	0.20	0.51	0.84	1.61	2.93	10.8	4.98	0.97	1.30	0.31	0.34	0.26
Max.	0.47	2.52	1.72	3.48	19	85	25	2.84	3.80	0.44	0.44	0.41
Min.	0.16	0.26	0.44	0.60	0.60	0.90	0.55	0.41	0.26	0.23	0.26	0.20
Runoff - mcm.	0.524	1.381	2.176	4.324	7.854	28.089	13.350	2.507	3.484	0.834	0.813	0.700

WATER YEAR 1960 : Max. 85 Min. 0.16 Mean 2.09 Annual Runoff 66.035 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.15	06.00	268.84	186				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
YOM RIVER BASIN

Ngao Creek at Ngao Bridge, Lampang (V.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. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +266.79 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.14

Location: On left bank 100 meters upstream from gage site.
Elevation: +272.896 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 - 58
Rated by Float: -
Rated by Current Meter: 1957 - 58

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

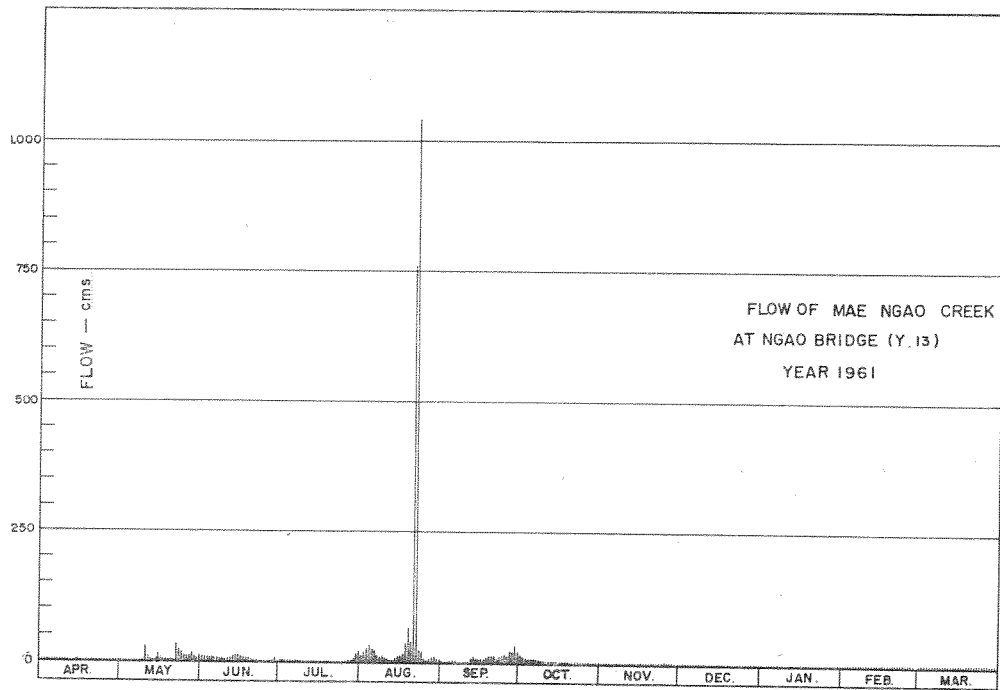
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1957 - 58. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	226.89	266.94	267.47	267.28	267.61	267.20	267.64	267.10	266.92	266.94	266.92	266.95
2	.89	.95	.47	.26	.73	.18	.57	.09	.93	.94	.93	.94
3	.91	.93	.44	.21	.78	.16	.50	.06	.94	.92	.94	.94
4	.92	.92	.41	.19	.89	.20	.49	.04	.94	.95	.93	.94
5	.91	.92	.39	.17	.79	.33	.50	.04	.93	.96	.92	.93
6	266.90	266.91	267.38	267.14	267.75	267.25	267.48	267.03	266.92	266.94	266.92	266.94
7	.90	.91	.37	.14	.60	.18	.40	.05	.92	.93	.93	.94
8	.89	.93	.36	.10	.52	.14	.39	.04	.92	.95	.95	.93
9	.88	.97	.35	.11	.55	.13	.38	.03	.92	.97	.95	.92
10	.88	267.84	.33	.12	.47	.18	.30	.01	.91	.97	.96	.92
11	266.88	267.45	267.36	267.12	267.38	267.21	267.29	267.01	266.94	266.98	266.97	266.92
12	.88	.26	.44	.06	.29	.42	.29	266.99	.97	.97	.97	.92
13	.92	.24	.51	.00	.34	.53	.31	267.08	.96	.96	.95	.91
14	.92	.17	.56	266.97	.43	.46	.29	.12	.95	.95	.94	.91
15	.92	.63	.56	.96	.54	.39	.22	.09	.98	.94	.93	.91
16	266.91	267.43	267.42	266.98	267.58	267.46	267.27	267.11	267.00	266.94	266.93	266.92
17	.91	.29	.39	.06	.68	.44	.21	.09	266.99	.92	.92	.92
18	.90	.29	.36	.96	.94	.52	.19	.06	.97	.91	.92	.91
19	.90	.21	.35	.94	268.19	.58	.28	.04	.97	.92	.91	.91
20	.90	.18	.34	.93	267.96	.61	.29	.04	.95	.93	.91	.91
21	266.90	267.14	267.31	266.92	270.18	267.59	267.28	266.99	266.94	266.93	266.93	266.91
22	.92	.86	.29	.94	.60	.47	.23	.97	.94	.94	.95	.91
23	.92	.74	.27	.95	267.79	.54	.21	.97	.94	.93	.95	.90
24	.93	.69	.17	.97	.73	.61	.19	.95	.94	.92	.96	.90
25	.93	.54	.14	267.03	.50	.65	.21	.95	.93	.91	.97	.90
26	266.94	267.51	267.12	267.04	267.29	267.59	267.18	266.95	266.96	266.91	266.97	266.90
27	.95	.61	.21	.05	.37	.75	.15	.94	.96	.92	.96	.90
28	.94	.65	.30	.27	.51	.76	.14	.93	.97	.92	.96	.90
29	.94	.50	.35	.49	.51	.90	.14	.95	.97	.91		.90
30	.93	.44	.27	.67	.41	.74	.12	.93	.96	.92		.90
31		.53		.77	.36		.13		.96	.92		.90
Mean	266.91	267.31	267.36	267.12	267.78	267.44	267.30	267.02	266.95	266.94	266.94	266.92
Max.	266.95	267.86	267.56	267.77	270.60	267.90	267.64	267.12	267.00	266.98	266.97	266.95
Min.	266.88	266.91	267.12	266.92	267.29	267.13	267.12	266.93	266.91	266.91	266.91	266.90

WATER YEAR 1961 : Max. 270.60 m. Min. 266.88 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.18	0.32	8.64	3.48	14	2.20	16	1.00	0.26	0.32	0.26	0.35
2	0.18	0.35	8.64	3.16	21	1.96	12	0.95	0.29	0.32	0.29	0.32
3	0.23	0.29	7.68	2.36	25	1.72	9.60	0.80	0.32	0.26	0.32	0.32
4	0.26	0.26	6.72	2.08	33	2.20	9.28	0.70	0.32	0.35	0.29	0.32
5	0.23	0.26	6.14	1.84	25	4.58	9.60	0.70	0.29	0.38	0.26	0.29
6	0.20	0.23	5.88	1.48	23	3.00	8.96	0.65	0.26	0.32	0.26	0.32
7	0.20	0.23	5.62	1.48	14	1.96	6.40	0.75	0.26	0.29	0.29	0.32
8	0.18	0.29	5.36	1.00	10	1.48	6.14	0.70	0.26	0.35	0.35	0.29
9	0.16	0.41	5.10	1.12	12	1.36	5.88	0.65	0.26	0.41	0.35	0.26
10	0.16	29	4.58	1.24	8.64	1.96	3.80	0.55	0.23	0.41	0.38	0.26
11	0.16	8.00	5.36	1.24	5.88	2.36	3.64	0.55	0.32	0.44	0.41	0.26
12	0.16	3.16	7.68	0.80	3.64	7.04	3.64	0.47	0.41	0.41	0.41	0.26
13	0.26	2.84	10	0.50	4.84	11	4.06	0.90	0.38	0.38	0.35	0.23
14	0.26	1.84	12	0.41	7.36	8.32	3.64	1.24	0.35	0.35	0.32	0.23
15	0.26	15	12	0.38	11	6.14	2.52	0.95	0.44	0.32	0.29	0.23
16	0.23	7.36	7.04	0.44	13	8.32	3.32	1.12	0.50	0.32	0.29	0.26
17	0.23	3.64	6.14	0.44	18	7.68	2.36	0.95	0.47	0.26	0.26	0.26
18	0.20	3.64	5.36	0.38	38	10	2.08	0.80	0.41	0.23	0.26	0.23
19	0.20	2.36	5.10	0.32	67	13	3.48	0.70	0.41	0.26	0.23	0.23
20	0.20	1.96	4.84	0.29	40	14	3.64	0.70	0.35	0.29	0.23	0.23
21	0.20	1.48	4.06	0.26	760	13	3.48	0.47	0.32	0.29	0.29	0.23
22	0.26	31	3.64	0.32	1,040	8.64	2.68	0.41	0.32	0.32	0.35	0.23
23	0.26	22	3.32	0.35	25	11	2.36	0.41	0.32	0.29	0.35	0.20
24	0.29	19	1.84	0.41	21	14	2.08	0.35	0.32	0.26	0.38	0.20
25	0.29	11	1.48	0.65	9.60	16	2.36	0.35	0.29	0.23	0.41	0.20
26	0.32	10	1.24	0.70	3.64	13	1.96	0.35	0.38	0.23	0.41	0.20
27	0.35	14	2.36	0.75	5.62	23	1.60	0.32	0.38	0.26	0.38	0.20
28	0.32	16	3.80	3.32	10	23	1.48	0.29	0.41	0.26	0.38	0.20
29	0.32	9.60	5.10	9.28	10	34	1.48	0.29	0.41	0.23		0.20
30	0.29	7.68	3.32	17	6.72	22	1.24	0.29	0.38	0.26	1.24	0.20
31		11		24	5.36		1.36		0.38	0.26		0.20
Total	7.04	234.20	170.04	81.48	2,291.30	287.92	142.12	19.36	10.70	9.56	10.41	7.73
Mean	0.23	7.55	5.67	2.63	73.9	9.60	4.58	0.64	0.34	0.31	0.37	0.25
Max.	0.35	31	12	24	1,040	34	16	1.24	0.50	0.44	0.41	0.35
Min.	0.16	0.23	1.24	0.26	3.64	1.36	1.24	0.29	0.26	0.23	0.23	0.20
Runoff - mcm.	0.608	20.235	14.691	7.040	197.968	24.876	12.279	1.673	0.924	0.826	0.899	0.668

WATER YEAR 1961 : Max. 1,040 Min. 0.16 Mean 8.96 Annual Runoff 282.689 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	09.00	271.08	1,600				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18°-47' - 00" N, Long 100°-47' - 37" E, on right bank at Ban Tha Chang, 3 kilometers upstream of the house of Governor, Amphoe Muang, Nan.

Drainage Area: 4,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.62

Bench Mark: B.M. - H.S. Nan

Location: On right bank 3 kilometers downstream.

Elevation: +199.350

Gage Reading Frequency: 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 - 62

Rating Operation:

Period of Rating: 1954 - 56

Rated by Float: -

Rated by Current Meter: 1954 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

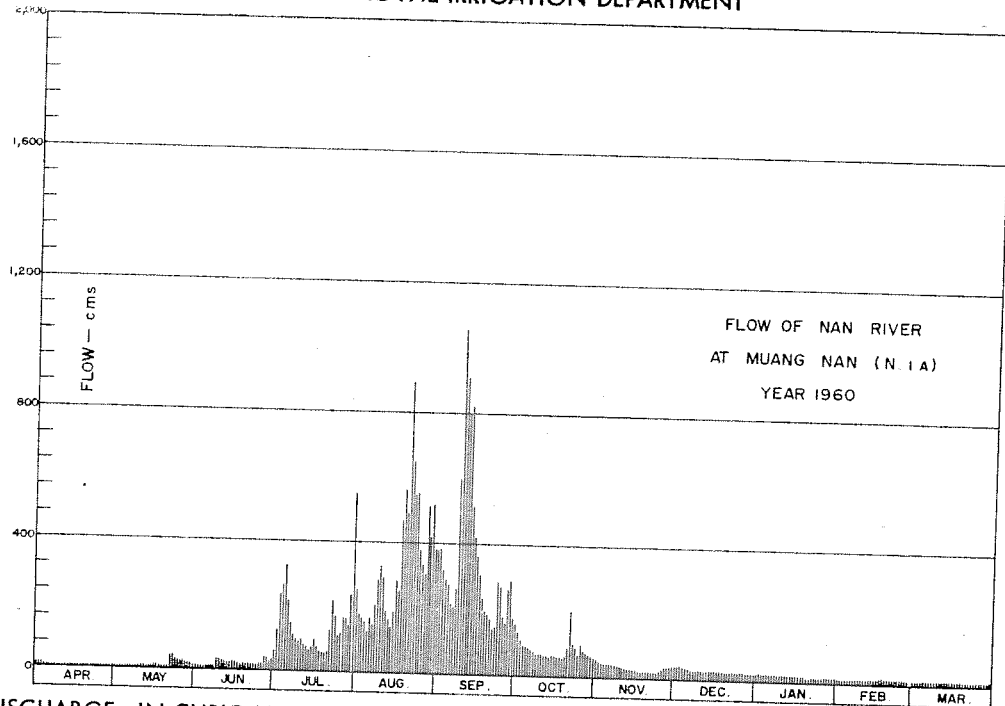
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1954 - 56. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.18	195.00	195.22	196.07	197.11	197.80	196.58	195.75	195.60	195.40	195.24	195.22
2	.16	.00	.21	.58	196.72	.75	.40	.71	.63	.42	.24	.22
3	.13	.02	.20	197.08	.65	.47	.28	.67	.62	.40	.24	.21
4	.09	.02	.48	196.67	.58	.32	.12	.64	.60	.40	.24	.21
5	.07	.03	.65	197.50	.36	.25	.12	.63	.55	.40	.24	.21
6	195.07	195.05	195.67	196.92	196.69	196.92	196.08	195.63	195.53	195.39	195.24	195.21
7	.06	.08	.62	.49	.52	.86	.02	.62	.49	.39	.24	.21
8	.06	.07	.67	.25	.90	197.38	195.96	.61	.48	.39	.24	.21
9	.06	.07	.56	.19	197.33	198.70	.91	.57	.48	.38	.23	.20
10	.06	.16	.55	.13	.54	199.75	.93	.55	.48	.38	.23	.20
11	195.05	195.16	195.47	196.23	197.25	199.34	195.90	195.52	195.47	195.38	195.23	195.20
12	.05	.12	.44	.02	196.79	.13	.87	.50	.47	.37	.23	.20
13	.05	.10	.43	196.00	.63	.19	.84	.47	.46	.37	.23	.20
14	.05	.12	.42	195.87	.44	198.26	.80	.45	.46	.36	.22	.20
15	.04	.18	.45	196.02	.82	197.90	.88	.42	.46	.36	.24	.20
16	195.04	195.25	195.44	196.21	197.32	197.67	195.85	195.40	195.45	195.35	195.30	195.19
17	.04	.19	.39	.01	.09	.42	.83	.38	.45	.34	.37	.12
18	.04	.13	.38	195.87	198.12	.01	.85	.37	.44	.32	.33	.19
19	.03	.10	.36	.86	.46	196.81	.82	.37	.43	.28	.28	.19
20	.03	.10	.38	.83	.09	.77	.91	.37	.42	.24	.26	.19
21	195.03	195.11	195.38	195.89	199.61	196.68	196.17	195.37	195.41	195.24	195.26	195.19
22	.02	.69	.37	196.55	198.72	.47	.86	.36	.41	.25	.26	.19
23	.02	.67	.35	.96	.40	.57	.23	.36	.41	.26	.25	.19
24	.02	.44	.36	.55	.42	197.32	.09	.36	.40	.26	.25	.19
25	.02	.42	.34	.26	197.74	.22	195.88	.39	.40	.26	.25	.19
26	195.02	195.44	195.48	196.37	197.53	196.72	196.18	195.45	195.40	195.25	195.24	195.18
27	.02	.41	.69	.67	.40	.61	.00	.55	.40	.25	.23	.18
28	.01	.35	.55	.66	198.30	197.20	195.95	.58	.39	.25	.22	.18
29	.01	.31	.47	.48	197.91	.33	.92	.55	.39	.25	.25	.18
30	.01	.25	.63	197.25	198.30	196.69	.88	.57	.39	.25	.25	.18
31		.23		198.41	197.74		.82		.39	.24		.18
Mean	195.05	195.20	195.45	196.44	197.46	197.51	196.03	195.50	195.46	195.32	195.25	195.20
Max.	195.18	195.69	195.69	198.41	199.61	199.75	196.58	195.75	195.63	195.42	195.37	195.22
Min.	195.01	195.00	195.20	195.83	196.36	196.47	195.80	195.36	195.39	195.24	195.22	195.18

WATER YEAR 1960 : Max. 199.75 m. Min. 195.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	5.50	14	86	246	391	154	53	39	24	15	14
2	11	5.50	14	154	176	380	127	49	42	25	15	14
3	10	6.00	13	240	165	288	110	45	41	24	15	14
4	7.75	6.00	30	168	154	274	91	43	39	24	15	14
5	7.25	6.25	44	324	121	212	91	42	35	24	15	14
6	7.25	6.75	45	212	171	212	87	42	33	23	15	14
7	7.00	7.50	41	140	144	201	80	41	30	23	15	14
8	7.00	7.25	45	107	208	300	74	40	30	23	15	14
9	7.00	7.25	36	99	290	643	68	37	30	23	15	14
10	7.00	11	35	92	332	1,052	70	35	30	23	15	13
11	6.75	11	29	104	274	881	67	33	29	23	15	13
12	6.75	9.00	27	80	188	799	64	31	29	22	15	13
13	6.75	8.00	26	78	162	822	64	29	28	22	15	13
14	6.75	9.00	25	64	133	508	57	28	28	22	14	13
15	6.50	12	28	80	194	415	65	25	28	22	15	13
16	6.50	16	27	101	288	361	62	24	28	21	18	13
17	6.50	13	25	79	242	308	60	23	28	20	22	13
18	6.50	9.50	25	64	470	227	62	22	27	19	20	13
19	6.25	8.00	22	63	566	192	59	22	26	17	17	13
20	6.25	8.00	23	60	463	185	68	22	25	15	16	13
21	6.25	8.50	23	66	991	170	97	22	25	15	16	13
22	6.00	47	22	149	650	137	201	22	25	16	16	13
23	6.00	45	21	219	547	147	104	22	25	16	16	13
24	6.00	27	22	149	553	288	88	22	24	16	16	13
25	6.00	25	20	108	377	268	65	24	24	16	16	13
26	6.00	27	30	123	330	176	98	28	24	16	15	12
27	6.00	25	47	168	304	159	78	35	24	16	15	12
28	5.75	21	35	167	519	264	73	37	23	16	14	12
29	5.75	19	29	138	418	290	69	35	23	16	14	12
30	5.75	16	42	274	519	171	65	35	23	16	12	12
31		15	550	377			59	37	23	15	12	12
Total	208.25	448	861	4,506	10,572	10,827	2,577	970	888	613	441	405
Mean	6.94	14.4	28.7	.145	341	361	83.1	32.3	28.6	19.7	15.7	13.1
Max.	12	47	47	550	991	1,052	201	53	42	25	22	14
Min.	5.75	5.50	13	60	121	137	57	22	23	15	14	12
Runoff - mcm.	17.993	38.707	74.390	389.318	913.421	935.453	222.653	83,808	76.723	52.963	38.102	35.078

WATER YEAR 1960: Max. 1,052 Min. 5.50 Mean 91 Annual Runoff 2,874 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 10	06.00	195.01	1,106				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18°-47'-00" N, Long 100°-47'-37" E, on right bank at Ban Tha Chang, 3 kilometers upstream of the house of Governor, Amphoe Muang, Nan.

Drainage Area: 4,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.62

Bench Mark: B.M. - H.S. Nan

Location: On right bank 3 kilometers downstream.
Elevation: +199.350

Gage Reading Frequency: 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 - 62

Rating Operation:

Period of Rating: 1954 - 56

Rated by Float: -

Rated by Current Meter: 1954 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

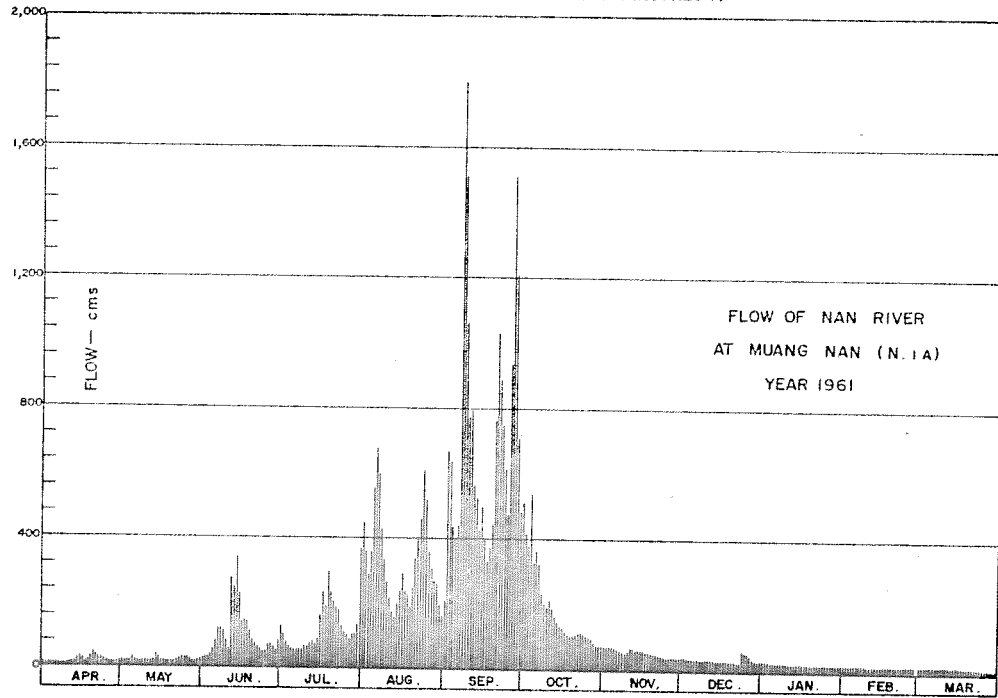
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1954 - 56. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.18	195.41	195.54	196.42	198.03	196.93	198.28	195.97	195.62	195.54	195.40	195.36
2	.18	.39	.56	.21	197.66	198.77	197.87	.97	.61	.52	.40	.36
3	.18	.39	.56	.04	.32	.68	.75	.96	.61	.51	.40	.36
4	.18	.40	.68	195.90	.73	197.97	198.37	.95	.60	.48	.40	.36
5	.17	.54	.85	.86	198.42	.84	197.51	.94	.60	.47	.40	.35
6	195.17	195.42	196.14	195.82	198.80	198.08	197.69	195.90	195.60	195.46	195.40	195.35
7	.17	.35	.38	.84	.57	199.96	.45	.82	.59	.45	.40	.35
8	.17	.34	.37	.81	197.97	201.13	.06	.79	.59	.45	.40	.34
9	.21	.37	.30	.83	.49	199.75	196.87	.78	.58	.45	.40	.34
10	.23	.41	.07	.94	.18	.06	.81	.81	.57	.45	.39	.34
11	195.23	195.38	195.84	195.92	196.97	199.13	196.93	195.94	195.57	195.45	195.39	195.33
12	.28	.38	197.28	196.01	.70	198.47	.79	.88	.56	.44	.39	.33
13	.34	.42	.06	.08	.61	.32	.65	.84	.55	.44	.39	.32
14	.57	.66	.59	.00	.87	197.93	.52	.87	.53	.44	.39	.32
15	.52	.51	.08	.14	197.04	198.23	.46	.84	.52	.43	.39	.31
16	195.47	195.40	196.49	196.73	197.37	197.85	196.42	195.83	195.52	195.43	195.38	195.31
17	.27	.37	.55	197.04	.08	.52	.32	.82	.52	.43	.38	.30
18	.43	.37	.52	196.80	.04	.75	.27	.80	.52	.43	.38	.30
19	.63	.37	.29	197.37	196.80	198.00	.26	.78	.51	.42	.38	.29
20	.72	.35	.08	.02	197.18	.79	.25	.75	.51	.42	.38	.28
21	195.60	195.37	195.99	196.89	197.70	199.70	196.27	195.72	195.51	195.42	195.38	196.27
22	.56	.41	.94	.79	.90	.32	.30	.70	.50	.42	.37	.27
23	.52	.48	.83	.74	198.09	198.96	.34	.68	.50	.42	.37	.26
24	.44	.54	.77	.44	.60	.62	.26	.67	.84	.41	.37	.26
25	.36	.52	.78	.29	.29	.15	.24	.64	.83	.41	.37	.25
26	195.32	195.56	195.98	196.23	197.66	199.45	196.22	195.62	195.80	195.41	195.37	195.24
27	.30	.44	.97	.10	.42	200.65	.17	.64	.62	.41	.36	.23
28	.29	.39	.88	.26	.25	.31	.04	.64	.60	.41	.36	.23
29	.28	.38	.79	.27	.20	198.68	.01	.63	.58	.40	.36	.22
30	.31	.42	196.14	.47	196.85	.17	195.98	.62	.57	.40	.36	.22
31		.45		197.60	.62		.98		.56	.40		.20
Mean	195.34	195.43	196.17	196.35	197.49	198.74	196.72	195.79	195.59	195.44	195.38	195.30
Max.	195.72	195.66	197.59	197.60	198.80	201.13	198.37	195.97	195.84	195.54	195.40	195.36
Min.	195.17	195.34	195.54	195.81	196.61	196.93	195.98	195.62	195.50	195.40	195.36	195.20

WATER YEAR 1961 : Max. 201.13 m. Min. 195.17 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	25	34	130	448	213	513	75	41	34	24	22
2	12	23	36	101	359	668	408	75	40	33	24	22
3	12	23	36	82	288	636	380	74	40	32	24	22
4	12	24	46	67	375	433	539	73	39	30	24	22
5	12	34	62	63	553	401	326	71	39	29	24	21
6	12	25	93	59	678	460	366	67	39	28	24	21
7	12	21	124	61	600	1,149	314	59	38	28	24	21
8	12	20	123	58	432	1,794	237	56	38	28	24	20
9	14	22	113	60	322	1,052	203	55	38	28	24	20
10	15	25	86	71	260	773	192	58	37	28	23	20
11	15	23	61	69	221	799	213	71	37	28	23	20
12	17	23	280	79	173	567	188	65	36	27	23	20
13	20	25	237	87	159	525	165	61	35	27	23	19
14	37	44	343	78	203	423	144	64	33	27	23	19
15	33	32	240	93	233	499	135	61	33	26	23	19
16	29	24	140	178	298	403	130	60	33	26	23	19
17	17	22	149	233	240	328	116	59	33	26	23	18
18	26	22	144	190	233	380	109	57	33	26	23	18
19	42	22	122	298	190	440	108	55	32	25	23	18
20	50	21	87	230	260	675	107	53	32	25	23	17
21	39	22	77	206	368	1,030	109	50	32	25	23	17
22	36	25	71	188	415	873	113	48	31	25	22	17
23	33	30	60	180	463	735	119	46	31	25	22	16
24	27	34	54	133	610	617	108	45	31	25	22	16
25	22	33	55	112	516	478	105	43	30	25	22	15
26	19	36	76	104	359	925	103	41	30	25	22	15
27	18	27	75	89	308	1,511	97	43	41	25	22	15
28	18	23	65	108	274	1,323	82	43	39	25	22	15
29	17	23	56	109	264	620	79	42	37	24	22	14
30	19	25	93	137	199	483	76	41	34	24	22	14
31	19	28	93	345	160	76	76	41	36	24	22	13
Total	659	806	3,228	3,998	10,461	21,215	5,960	1,711	1,185	833	646	565
Mean	21.9	26	107	130	337	707	192	57	38.2	26.9	23.1	18.2
Max.	50	44	343	345	678	1,794	539	75	61	34	24	22
Min.	12	20	34	58	159	213	76	41	31	24	22	13
Runoff - mcm.	56.938	69.638	278.554	345.427	903.830	1,832.976	514.944	142.830	102.394	71.971	55.814	48.816

WATER YEAR 1961 : Max. 1,794 Min. 12 Mean 140 Annual Runoff 4,429.469 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 26	06.00	201.58	2,037				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18° - 47' - 00" N, Long 100° - 47' - 37" E, on right bank at Ban Tha Chang, 3 kilometers upstream of the house of Governor, Amphoe Muang, Nan.

Drainage Area: 4,590 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.62

Bench Mark: B.M. - H.S. Nan

Location: On right bank 3 kilometers downstream.
Elevation: +199.350

Gage Reading Frequency: 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 - 62

Rating Operation:

Period of Rating: 1954 - 56

Rated by Float: -

Rated by Current Meter: 1954 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

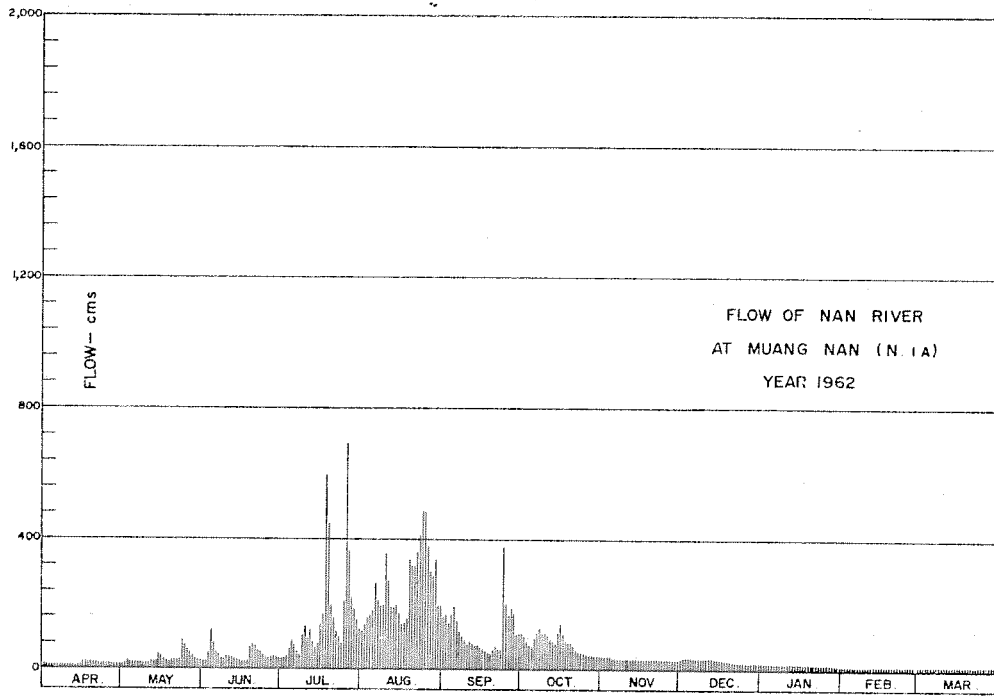
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1954 - 56. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.21	195.26	195.44	195.54	196.34	196.63	196.29	195.62	195.57	195.33	195.22	195.21
2	.20	.31	.50	.53	.52	.69	.20	.63	.57	.32	.22	.21
3	.20	.36	.79	.62	.64	.51	.06	.64	.57	.32	.22	.21
4	.20	.40	196.37	.92	.67	.70	195.95	.63	.57	.32	.21	.20
5	.19	.38	.04	196.12	.75	.85	.94	.56	.56	.31	.21	.20
6	195.19	195.36	195.77	195.95	197.22	196.54	196.18	195.56	195.56	195.31	195.21	195.19
7	.19	.33	.69	.77	196.94	.30	.33	.55	.56	.31	.21	.19
8	.18	.29	.53	.66	.84	.18	.39	.54	.55	.31	.20	.20
9	.18	.29	.53	196.26	.84	.09	.27	.53	.55	.30	.20	.20
10	.17	.28	.62	.44	197.65	195.99	.29	.53	.54	.30	.20	.24
11	195.17	195.27	195.60	196.16	197.23	196.07	196.24	195.53	195.54	195.30	195.19	195.24
12	.16	.46	.56	.37	196.82	195.98	.13	.52	.53	.30	.19	.23
13	.16	.38	.53	.08	.81	.95	.09	.52	.53	.29	.19	.22
14	.15	.43	.49	195.94	.84	196.00	.00	.52	.52	.29	.19	.22
15	.17	.70	.45	196.08	.71	195.91	.30	.52	.51	.29	.18	.21
16	195.35	195.61	195.41	196.50	196.47	195.86	196.47	195.52	195.50	195.28	195.18	195.21
17	.38	.50	.42	.70	.51	.81	.26	.51	.49	.28	.18	.20
18	.35	.42	.45	198.56	.61	.76	.08	.51	.47	.28	.19	.20
19	.33	.37	.94	.03	197.52	.76	.04	.51	.46	.27	.19	.19
20	.32	.45	196.00	196.85	.47	.81	.03	.52	.43	.27	.19	.19
21	195.32	195.44	195.95	196.60	197.46	195.94	195.94	195.52	195.41	195.27	195.20	195.18
22	.31	.47	.80	.32	.67	.86	.85	.52	.39	.26	.20	.17
23	.31	.51	.70	.11	.89	.86	.79	.52	.38	.26	.20	.20
24	.30	196.11	.64	.03	198.18	197.74	.76	.51	.38	.26	.21	.22
25	.29	195.95	.59	.93	.16	196.86	.71	.51	.37	.25	.21	.20
26	195.27	195.84	195.56	198.84	197.74	196.64	195.69	195.51	195.37	195.25	195.23	195.19
27	.26	.74	.59	197.68	.39	.79	.68	.50	.36	.25	.22	.18
28	.25	.65	.62	196.97	.30	.41	.66	.50	.36	.24	.22	.18
29	.24	.51	.57	.77	.56	.27	.63	.49	.35	.24	.18	.18
30	.23	.47	.52	.57	196.85	.29	.62	.48	.34	.23	.21	.21
31		.45		.38	.83		.62		.33	.23		.25
Mean	195.24	195.48	195.66	196.49	197.10	196.27	196.02	195.53	195.29	195.28	195.20	195.20
Max.	195.38	196.11	196.37	198.84	198.18	197.74	196.47	195.64	195.57	195.33	195.25	195.25
Min.	195.16	195.26	195.41	195.53	196.34	195.76	195.62	195.48	195.33	195.23	195.18	195.17

WATER YEAR 1962 : Max. 198.84 m. Min. 195.16 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	16	27	34	119	162	112	41	37	20	14	14
2	13	19	31	33	144	171	100	42	37	19	14	14
3	13	27	56	41	163	143	85	43	37	19	14	14
4	13	24	123	69	168	173	73	42	37	19	14	13
5	13	23	83	91	182	199	71	36	36	19	14	13
6	13	22	54	73	268	147	98	36	36	19	14	13
7	13	20	47	54	215	113	117	35	36	19	14	13
8	12	18	33	44	197	98	126	34	35	19	13	13
9	12	18	33	108	197	88	109	33	35	18	13	13
10	12	17	41	133	357	77	112	33	34	18	13	15
11	12	17	39	96	270	86	105	33	34	18	13	15
12	11	28	36	123	194	76	92	33	33	18	13	15
13	11	23	33	87	192	73	88	33	33	18	13	15
14	11	26	30	71	197	78	78	33	33	18	13	14
15	12	48	28	87	175	68	113	33	32	18	13	14
16	21	40	25	141	137	63	137	32	31	17	12	14
17	23	31	25	173	143	58	108	32	30	17	12	13
18	21	25	28	597	159	53	87	32	29	17	13	13
19	20	22	71	447	325	53	82	32	28	17	13	13
20	19	28	78	199	318	58	81	33	26	17	13	13
21	19	27	73	157	318	71	71	33	25	17	13	12
22	19	29	57	116	361	63	62	33	23	16	13	12
23	19	32	48	90	413	63	56	33	23	16	13	13
24	18	90	43	81	486	377	53	32	23	16	14	14
25	18	73	38	213	481	201	49	32	22	16	14	13
26	17	61	36	692	377	163	47	32	22	16	15	13
27	17	52	38	363	302	188	46	31	22	16	14	12
28	15	44	41	221	284	128	44	31	22	15	14	12
29	15	32	37	185	337	109	42	30	21	15	15	12
30	15	29	33	152	199	112	41	30	20	15	15	14
31		28		124	194		41		20	15		16
Total	461	990	1,370	5,095	7,873	3,512	2,526	1,018	912	537	374	416
Mean	15.4	31.9	45.7	164	254	118	81.5	33.9	29.4	17.3	13.3	13.4
Max.	23	90	123	692	486	377	137	43	37	20	15	16
Min.	11	16	25	33	119	53	41	30	20	15	12	12
Runoff - mcm.	39.830	85.536	118.368	440.208	680.227	303.437	218.246	87.955	78.797	46.397	32.314	35.942

WATER YEAR 1962 : Max. 692 Min. 11 Mean 69 Annual Runoff 2,167.258 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 26	06.00	199.12	796				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAN RIVER BASIN

Nan River at Tha - It, Uttaradit (N.2)

Location: Lat 17° - 37' - 16" N, Long 100° - 06' - 20" E, on right bank at Amphoe Muang Uttaradit, 1 kilometer upstream from the recorder site (N.2A, which continued the record at N.2 in year 1962)

Drainage Area: 16,862 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +53.00 m.(M.S.L.)

Bench Mark:

Location:

Elevation:

Gage Reading Frequency: 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 - 62

Rating Operation:

Period of Rating: 1954 - 59

Rated by Float: -

Rated by Current Meter: 1954 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

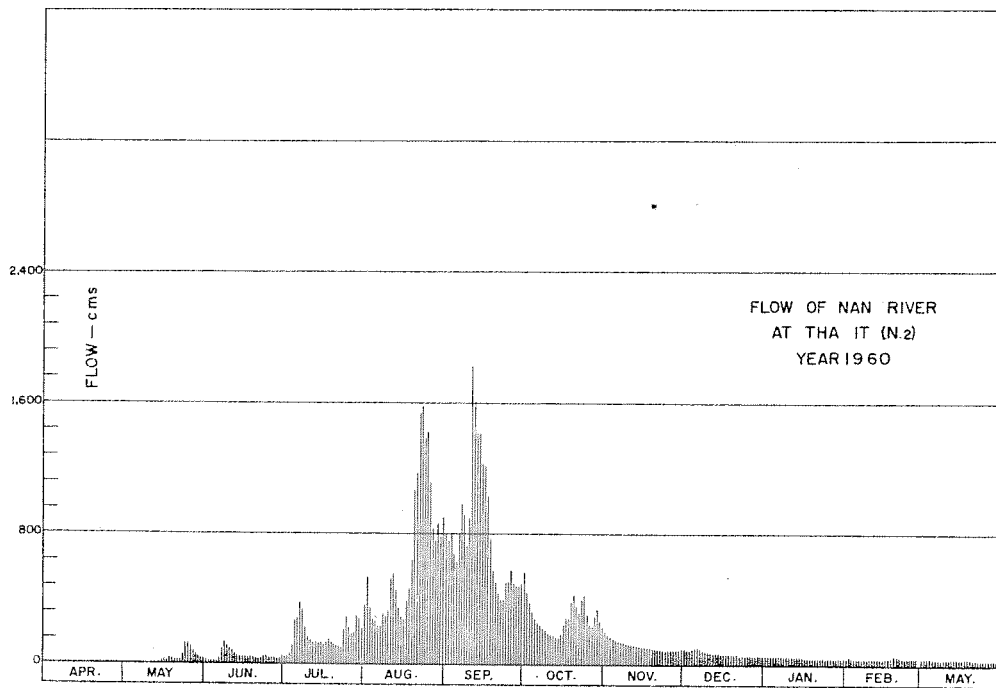
General Description: Records fair. Stage - discharge relation used is defined by adjusted rating curve of discharge measurements during 1954 - 59. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	52.93	52.81	53.20	53.53	55.69	57.40	56.56	54.75	53.98	53.56	53.38	53.30
2	.93	.81	.14	.48	56.42	.24	55.99	.62	.94	.56	.38	.30
3	.93	.85	.10	.69	55.59	.41	.76	.55	.96	.55	.38	.29
4	.92	.83	.07	54.20	.19	56.96	.46	.47	.99	.54	.37	.29
5	.92	.81	.10	55.15	.10	.76	.25	.41	54.01	.53	.37	.28
6	52.91	52.81	53.27	55.25	54.96	57.39	55.10	54.36	54.05	53.52	53.37	53.27
7	.91	.82	.98	.73	.93	58.01	54.99	.32	53.98	.52	.38	.27
8	.90	.83	54.38	.49	55.35	57.82	.88	.29	.91	.52	.38	.27
9	.89	.84	.20	54.92	.28	.16	.79	.25	.87	.52	.39	.26
10	.88	.86	53.98	.52	.63	.84	.70	.21	.84	.51	.37	.26
11	52.88	52.89	53.87	54.39	56.40	60.17	54.64	54.17	53.80	53.51	53.36	53.27
12	.88	.90	.70	.25	.53	59.55	.63	.16	.78	.50	.35	.28
13	.87	.92	.58	.33	.07	.13	.55	.13	.77	.50	.34	.28
14	.87	53.03	.52	.20	55.56	.17	.50	.11	.74	.49	.33	.27
15	.87	.07	.49	.31	.30	58.67	.64	.08	.73	.47	.33	.27
16	52.86	53.28	53.48	54.16	55.15	58.65	55.02	54.07	53.73	53.46	53.33	53.28
17	.86	.06	.43	.30	.78	.16	.24	.04	.71	.46	.33	.29
18	.86	.39	.49	.42	56.07	57.15	.18	.02	.69	.45	.41	.30
19	.86	.31	.45	.26	.80	56.60	.73	.00	.68	.45	.52	.25
20	.86	.22	.41	.17	58.27	.30	.98	53.97	.67	.44	.59	.23
21	52.85	53.17	53.40	54.12	58.51	56.00	55.59	53.96	53.67	53.44	53.48	53.22
22	.85	.15	.39	.10	59.45	55.80	.37	.95	.65	.34	.41	.21
23	.84	.63	.55	.02	.57	.78	.81	.95	.64	.42	.36	.19
24	.83	54.24	.50	.85	.08	56.28	.95	.94	.63	.42	.35	.19
25	.82	.20	.44	55.30	.17	.30	.33	.94	.62	.42	.34	.19
26	52.82	54.11	53.44	54.93	58.38	56.63	55.02	53.94	53.61	53.41	53.33	53.19
27	.81	53.85	.39	.62	57.55	.25	54.94	.93	.60	.41	.31	.19
28	.81	.66	.36	.72	.23	.18	55.28	.92	.59	.40	.30	.20
29	.81	.49	.36	55.31	.67	.18	.52	.95	.58	.39	.19	.19
30	.81	.40	.60	.24	.31	57.28	.13	.98	.58	.39	.21	.21
31		.30		54.85	.75		54.89		.57	.39		.24
Mean	52.87	53.21	53.51	54.54	56.70	57.34	55.24	54.15	53.76	53.47	53.38	53.25
Max.	52.93	54.24	54.38	55.73	59.57	60.17	56.56	54.75	54.05	53.56	53.59	53.30
Min.	52.81	52.81	53.07	53.48	54.93	55.78	54.50	53.92	53.57	53.39	53.30	53.19

WATER YEAR 1960 : Max. 60.17 m. Min. 52.81 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	8.00	28	52	370	794	566	202	98	55	40	34
2	13	8.00	24	48	533	747	432	181	93	55	40	34
3		10	22	67	350	797	384	171	95	54	40	33
4	13	9.00	20	124	276	669	325	160	99	53	40	33
5	13	8.00	22	269	260	616	287	151	101	52	40	33
6	12	8.00	32	287	236	791	260	144	106	52	40	32
7	12	9.00	98	378	232	979	240	139	98	52	40	32
8	12	9.00	147	330	305	920	223	135	89	52	40	32
9	12	10	124	229	292	725	208	130	85	52	41	32
10	11	10	98	167	358	926	194	125	82	51	40	32
11	11	12	85	149	528	1,821	184	120	78	51	39	32
12	11	12	68	130	559	1,565	183	119	76	50	38	33
13	11	13	56	140	449	1,397	171	116	75	50	37	33
14	11	18	52	124	344	1,412	164	113	72	49	36	32
15	11	20	49	137	296	1,217	184	110	71	48	36	32
16	10	33	48	119	296	1,209	246	108	71	47	36	33
17	10	20	44	136	388	1,028	285	105	69	47	36	33
18	10	41	49	153	449	722	274	102	67	46	43	34
19	10	35	46	131	626	576	378	100	66	46	52	31
20	10	29	43	120	1,067	504	430	96	65	45	57	30
21	10	26	42	114	1,156	434	350	95	65	45	48	29
22	10	25	41	112	1,524	392	309	94	63	44	43	29
23	10	61	54	102	1,573	388	394	94	62	44	39	27
24	9.00	130	50	218	1,377	499	423	93	61	44	38	27
25	9.00	128	45	296	1,412	504	301	93	60	44	37	27
26	9.00	113	45	231	1,108	583	246	93	59	43	36	27
27	8.00	83	41	181	839	492	232	92	58	43	35	27
28	8.00	64	39	197	744	475	292	90	57	42	34	28
29	8.00	49	39	298	875	475	336	94	56	41		27
30	8.00	42	58	285	767	499	265	98	56	41		29
31		34		218	899		224		56	41		30
Total	318	1,077	1,609	5,542	20,461	24,156	8,990	3,563	2,309	1,479	1,121	957
Mean	10.6	34.7	54	179	660	805	290	119	74.5	47.7	40.0	30.8
Max.	13	130	147	378	1,573	1,821	566	202	106	55	57	34
Min.	8.00	8.00	20	48	232	388	164	90	56	41	34	27
Runoff - BCM.	27.475	93.053	139.018	478.829	1,767.830	2,087.078	776.736	307.843	199.498	127.786	96.854	82.685

WATER YEAR 1960 : Max. 1,821 Min. 8.00 Mean 196 Annual Runoff 6,184.685 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 11	18.00	60.24	1,850				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATERY EAR 1961
NAN RIVER BASIN

Nan River at Tha - It, Uttaradit (N.2)

Location: Lat $17^{\circ}-37'$ - $16''$ N, Long $100^{\circ}-06'$ - $20''$ E, on right bank at Amphoe Muang Uttaradit, 1 kilometer upstream from the recorder site (N.2A, which continued the record at N.2 in year 1962).

Drainage Area: 16,862 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +53.00 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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 - 62

Rating Operation:

Period of Rating: 1954 - 59
Rated by Float: -
Rated by Current Meter: 1954 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow but flow in floodway for Sep. 9 - 12 was not included.

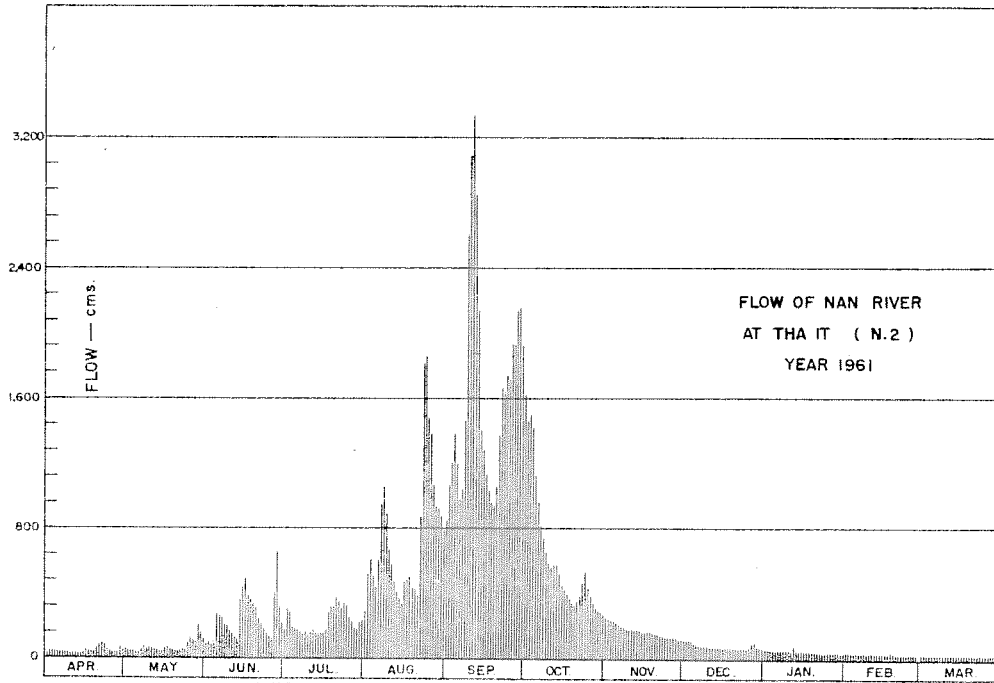
General Description: Records fair. Stage - discharge relation used is defined by adjusted rating curve of discharge measurements during 1954 - 59. No state diversions above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar
1	53.27	53.58	53.95	54.64	55.26	57.60	59.68	55.10	54.18	53.66	53.37	53.23
2	.41	.49	.99	55.37	56.40	58.30	.30	.04	.16	.64	.37	.22
3	.38	.47	.90	.24	.76	.72	.38	54.99	.15	.62	.36	.22
4	.33	.44	.95	54.73	.33	59.08	.20	.94	.10	.61	.36	.21
5	.29	.43	55.17	.67	.06	58.65	58.43	.90	53.99	.60	.35	.21
6	53.27	53.47	55.15	54.59	56.75	58.04	57.98	54.85	53.94	53.60	53.34	53.20
7	.26	.64	.07	.50	57.93	.21	.46	.78	.90	.89	.34	.20
8	.25	.75	54.79	.42	58.25	59.31	.23	54.73	.87	.58	.34	.20
9	.22	.61	.77	.56	57.73	61.79	56.96	.69	.85	.57	.33	.19
10	.20	.67	.57	.43	.02	62.56	.66	.65	.84	.56	.33	.19
11	53.20	53.60	54.46	54.51	56.64	62.76	56.57	54.62	53.82	53.55	53.31	53.18
12	.19	.52	.24	.64	.21	.06	.71	.61	.80	.83	.31	.18
13	.19	.51	.22	.47	55.95	60.92	.66	.63	.80	.53	.30	.17
14	.20	.45	55.68	.45	.73	59.47	.42	.60	.79	.52	.30	.16
15	.30	.42	56.07	.54	.56	.12	.09	.53	.78	.51	.29	.16
16	53.48	53.70	56.28	54.47	56.19	58.46	55.97	54.52	53.76	53.50	53.28	53.15
17	.44	.70	55.81	.60	.25	.22	.86	.57	.76	.49	.27	.15
18	.37	.57	.68	55.31	.33	57.96	.70	.55	.74	.48	.27	.15
19	.39	.49	.57	.45	.04	.91	.60	.50	.72	.48	.26	.15
20	.71	.47	.39	.47	55.99	58.25	.53	.47	.71	.47	.25	.15
21	53.87	53.40	55.06	55.74	55.81	59.09	55.67	54.42	53.70	53.46	53.25	53.15
22	.94	.47	54.81	.54	57.68	.78	.88	.37	.69	.45	.25	.15
23	.82	.57	.66	.43	60.13	.73	56.24	.34	.67	.44	.24	.14
24	.49	.57	.46	.59	.26	.98	.45	.32	.68	.43	.24	.14
25	.45	54.06	.32	.51	59.36	.91	.04	.30	.68	.42	.24	.13
26	53.36	54.26	54.22	55.08	59.11	60.43	55.77	54.27	53.82	53.41	53.23	53.13
27	.32	.11	55.87	54.93	58.29	.44	.59	.26	54.01	.40	.23	.12
28	.34	.07	56.95	.69	57.87	.92	.43	.23	.01	.40	.23	.12
29	.73	.79	55.44	.67	.85	.93	.33	.21	53.82	.39	.12	.12
30	.53	.49	54.88	.94	.69	.42	.28	.20	.74	.39	.12	.12
31		.19		55.00	.39		.20		.70	.38		.12
Mean	53.41	53.71	54.98	54.91	57.12	59.63	56.65	54.57	53.84	53.52	53.29	53.16
Max.	53.94	54.79	56.95	55.74	60.26	62.76	59.68	55.10	54.18	53.89	53.37	53.23
Min.	53.19	53.40	53.90	54.42	55.26	57.60	55.20	54.20	53.67	53.38	53.23	53.12

WATER YEAR 1961 : Max. 62.76 m. Min. 53.12 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	32	56	94	184	289	854	1,618	260	122	64	40	30
2	43	49	99	309	528	1,078	1,464	249	119	62	40	29
3	40	48	88	285	616	1,236	1,496	240	118	60	39	29
4	36	45	94	199	511	1,377	1,424	232	112	59	39	29
5	33	44	273	189	447	1,209	1,126	226	99	58	38	29
6	32	40	269	177	613	989	970	218	93	58	37	28
7	32	62	255	164	954	1,046	818	207	88	57	37	28
8	31	73	208	153	1,060	1,468	744	199	85	56	37	28
9	29	59	205	172	893	2,614	669	192	83	56	36	27
10	28	65	174	154	686	3,148	590	186	82	55	36	27
11	28	58	158	165	586	3,324	569	181	80	54	35	27
12	27	52	129	184	482	2,782	603	180	80	53	35	27
13	27	51	126	160	423	2,143	590	183	78	52	34	26
14	28	46	368	157	378	1,532	533	178	77	52	34	26
15	34	44	449	170	344	1,393	454	168	76	51	33	26
16	48	68	499	160	478	1,137	427	167	74	50	33	25
17	45	68	394	178	492	1,049	404	174	74	49	32	25
18	40	56	368	298	511	963	372	171	72	48	32	25
19	41	49	346	323	443	947	352	164	70	48	32	25
20	69	48	312	327	432	1,060	338	160	69	48	31	25
21	85	42	253	380	394	1,381	366	153	68	47	31	25
22	93	48	212	340	878	1,660	408	146	67	46	31	25
23	80	56	188	319	1,804	1,639	490	142	65	45	30	24
24	49	56	158	350	1,858	1,743	540	139	66	44	30	24
25	46	107	139	334	1,486	1,714	443	136	66	44	30	24
26	39	131	126	256	1,389	1,929	386	132	80	43	30	24
27	36	113	406	231	1,074	1,933	350	131	101	42	30	23
28	37	108	666	192	935	2,143	319	128	101	42	30	23
29	71	208	321	189	929	2,147	301	125	80	41	30	23
30	52	163	223	232	881	1,924	292	124	72	41	30	23
31		123		242	791		278		68	40		23
Total	1,311	2,236	7,600	7,173	23,585	49,562	19,734	5,291	2,585	1,565	952	802
Mean	43.7	72.2	253	231	761	1,652	636	176	83.4	50.5	34.0	25.9
Max.	93	208	666	380	1,858	3,324	1,618	260	122	64	40	30
Min.	27	40	88	153	289	854	278	124	65	40	30	23
Runoff - mcm.	113.270	193.190	656.640	619.747	2,037.744	4,282.157	1,705.018	457.142	223.344	135.216	82.253	69.293

WATER YEAR 1961 : Max. 3,324 Min. 23 Mean 333 Annual Runoff 10,552.205 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 11	06.00	62.78	3,366				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAN RIVER BASIN

Nan River at Tha - It, Uttaradit (N.2A)

Location: Lat 17°-37' - 13" N, Long 100°-06' - 19" E, on right bank in front Muang Uttaradit Kindergarten, Amphoe Muang, Uttaradit.

Drainage Area: 16,862 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +53.00 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: At Uttaradit Kindergarten north of railway station.
Elevation: + 62.154 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

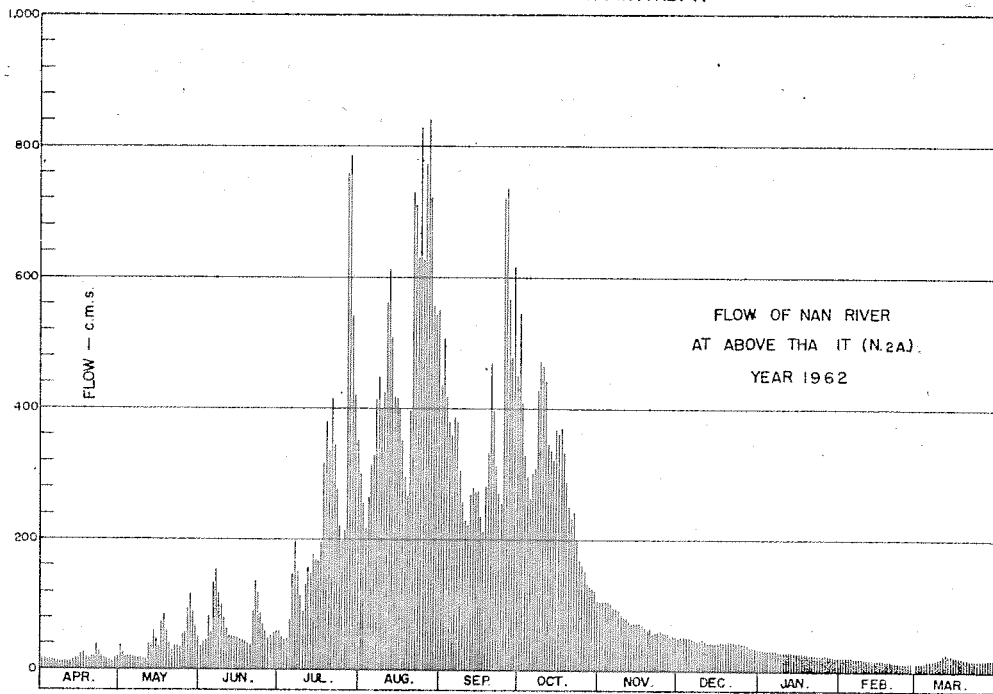
General Description: Records good. The data presented is made by discharge measurements during 1962. No upstream state diversions above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.12	53.53	53.51	53.63	55.34	56.03	56.58	54.22	53.66	53.28	53.11	53.08
2	.12	.37	.59	.54	.08	.36	.19	.19	.65	.27	.11	.07
3	.11	.25	.60	.50	54.99	.03	55.76	.17	.64	.27	.11	.07
4	.14	.27	.96	.53	55.28	55.86	.55	.16	.63	.25	.11	.09
5	.14	.25	.72	.80	.51	.77	.33	.13	.62	.24	.11	.14
6	53.13	53.23	54.12	54.33	55.57	55.90	55.56	54.09	53.61	53.24	53.10	53.13
7	.12	.24	.24	.68	.99	.88	.58	.05	.60	.23	.10	.13
8	.11	.21	53.97	.38	56.15	.54	56.17	.03	.59	.22	.10	.14
9	.10	.21	.81	.10	55.93	.26	.39	.01	.58	.21	.10	.16
10	.09	.22	.69	53.94	56.04	.08	.33	53.98	.57	.21	.10	.19
11	53.08	53.22	53.55	54.26	56.55	55.04	56.20	53.96	53.56	53.21	53.09	53.21
12	.10	.54	.49	.44	.72	.18	55.83	.93	.54	.20	.09	.25
13	.12	.53	.47	.36	.26	.28	.75	.90	.52	.20	.09	.21
14	.14	.75	.43	.58	55.92	.35	.65	.86	.51	.20	.09	.20
15	.16	.63	.43	.52	.91	.36	.88	.86	.50	.19	.10	.19
16	53.28	53.50	53.40	54.52	55.84	55.14	55.93	53.85	53.49	53.19	53.10	53.17
17	.33	.88	.40	.71	.59	.01	.92	.83	.48	.19	.10	.15
18	.23	.99	.38	55.43	.39	.46	.80	.82	.47	.18	.09	.13
19	.20	.77	.34	.76	.22	.73	.48	.81	.45	.18	.09	.10
20	.21	.54	.36	.53	.86	56.25	.25	.80	.44	.18	.09	.09
21	53.24	53.41	53.81	55.92	57.16	55.98	55.12	53.78	53.43	53.17	53.09	53.08
22	.51	.51	54.27	.58	.08	.60	.01	.77	.41	.16	.08	.07
23	.38	.50	.14	.20	56.78	.36	54.89	.76	.38	.16	.08	.07
24	.28	.47	53.89	54.89	57.49	.27	.70	.75	.37	.15	.08	.07
25	.20	.70	.74	.72	56.89	57.08	.61	.73	.35	.15	.08	.06
26	53.19	53.72	53.63	54.83	57.35	57.35	54.52	53.72	53.33	53.14	53.08	53.08
27	.17	54.06	.52	57.29	.52	56.76	.46	.71	.32	.13	.08	.07
28	.14	.22	.55	.38	.13	.39	.39	.70	.31	.13	.08	.07
29	.19	.01	.59	56.47	56.71	.95	.32	.69	.30	.12	.09	.09
30	.25	53.82	.62	55.96	.48	.23	.29	.68	.29	.12	.09	.09
31		.66		.62	.14		.25		.28	.11		.08
Mean	53.17	53.55	53.67	54.88	56.19	56.82	54.42	53.90	53.48	53.19	53.09	53.12
Max.	53.51	54.22	54.27	57.38	57.52	57.35	56.58	54.22	53.66	53.28	53.11	53.25
Min.	53.08	53.21	53.34	53.50	54.99	55.01	54.25	53.68	53.28	53.11	53.08	53.06

WATER YEAR 1962 : Max. 57.52 m. Min. 53.06 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	40	39	61	302	438	546	106	52	34	22	14
2	17	28	45	52	256	506	412	107	53	33	23	15
3	16	21	46	48	219	420	329	106	53	33	23	14
4	17	22	83	51	266	382	298	107	53	32	23	14
5	16	21	58	78	314	360	262	104	52	32	22	17
6	15	20	136	149	331	388	302	99	51	32	21	17
7	14	20	153	200	414	380	309	95	48	32	21	18
8	14	19	118	153	449	305	429	92	46	31	21	19
9	13	19	101	114	401	258	472	86	48	30	21	20
10	13	19	81	92	425	230	465	85	50	30	20	23
11	12	19	64	132	561	222	442	81	47	31	20	26
12	14	41	53	159	611	269	347	77	44	31	20	28
13	17	40	52	148	506	280	336	72	44	30	20	26
14	19	61	51	178	420	273	322	73	44	29	19	25
15	19	49	51	170	418	275	368	73	43	28	19	25
16	25	38	48	169	403	238	362	73	45	29	19	24
17	27	74	47	197	354	213	370	71	47	29	19	23
18	21	87	45	318	296	282	340	68	45	28	17	22
19	18	63	41	380	268	334	289	63	44	28	17	20
20	20	41	41	336	398	470	250	66	47	28	17	20
21	22	31	90	414	731	398	235	57	45	27	16	19
22	40	39	136	345	711	313	243	60	45	26	15	19
23	29	38	120	277	632	271	200	60	43	26	14	19
24	23	36	88	226	827	258	170	61	44	26	14	19
25	18	56	72	198	627	720	163	59	43	26	14	18
26	17	58	61	216	773	736	153	59	42	25	14	19
27	16	95	50	759	842	566	134	57	40	25	14	19
28	14	117	53	785	703	479	129	53	39	24	14	19
29	17	89	58	542	558	616	125	55	37	23		20
30	21	68	61	423	544	451	124	53	36	23		20
31	52	52		352	449		108		34	23		19
Total	561	1,421	2,142	7,722	15,009	11,331	9,034	2,276	1,404	884	519	620
Mean	18.7	45.8	71.4	249	484	378	291	75.9	45.3	28.5	18.5	20.0
Max.	40	117	153	785	842	736	546	107	53	34	23	28
Min.	12	19	39	48	219	213	108	53	34	23	14	14
Runoff - BCM.	48.470	122.774	185.069	667.188	1,296.778	978.998	780.538	196.646	121.306	76.378	44.842	53.568

WATER YEAR 1962 : Max. 842 Min. 12 Mean 145 Annual Runoff 4,572.547 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 27	06.00	57.55	851				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAN RIVER BASIN

Nan River at Phichai, Uttaradit (N.4)

Location: Lat 17°-16'-20" N, Long 100°-04'-52" E, on right bank near railway station, Amphoe Phichai, Uttaradit.

Drainage Area: 19,297 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +43.85 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: North of Phichai Railway Station.
Elevation: +53.327 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: 1946 - 47, 1951 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 for years without actual rating.

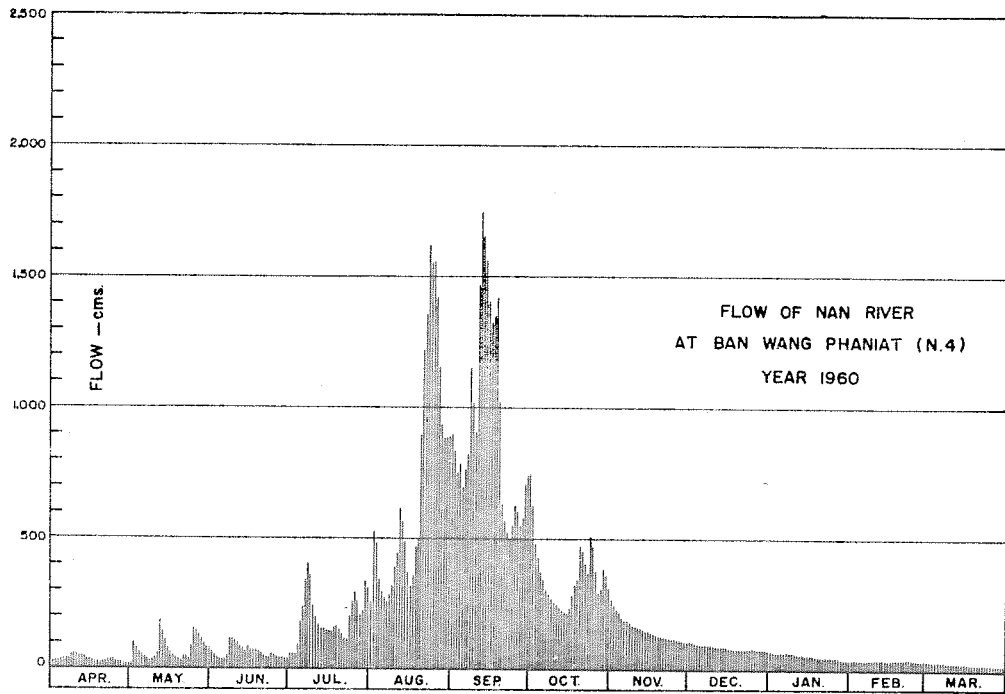
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67.
No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.31	45.20	45.68	45.60	46.87	50.07	49.39	47.02	46.15	46.27	45.44	45.54
2	.32	.97	.55	.61	48.43	49.67	48.57	46.89	.14	.26	.43	.53
3	.33	.79	.44	.57	.16	49.55	.18	.78	.11	.22	.42	.52
4	.35	.64	.41	.67	47.52	.60	47.86	.72	.10	.20	.41	.50
5	.35	.58	.42	46.54	.20	.17	.59	.62	.11	.12	.40	.49
6	45.38	45.48	45.42	46.97	47.09	49.55	47.41	46.55	46.18	46.09	45.38	45.48
7	.38	.40	.61	47.49	46.98	.84	.24	.54	.11	.06	.37	.47
8	.56	.34	46.06	.80	47.14	50.98	.17	.47	.09	.02	.37	.46
9	.55	.40	.09	.39	.39	.43	.06	.44	.08	.00	.38	.45
10	.53	.43	.00	46.82	.78	49.87	46.97	.40	.09	45.96	.38	.44
11	45.52	45.64	45.93	46.60	48.04	51.98	46.91	46.36	46.11	45.90	45.37	45.45
12	.51	46.53	.85	.43	.87	52.76	.87	.35	.12	.86	.37	.42
13	.47	.24	.76	.34	.52	.36	.81	.31	.14	.85	.37	.41
14	.42	.03	.65	.36	.01	.21	.75	.30	.15	.78	.37	.40
15	.37	45.75	.81	.31	47.56	.65	.74	.27	.18	.74	.37	.39
16	45.32	45.64	45.71	46.30	47.34	51.52	46.95	46.23	46.19	45.69	45.37	45.38
17	.31	.54	.70	.27	.37	.64	47.19	.21	.18	.63	.37	.37
18	.29	.44	.69	.42	48.13	.84	.37	.17	.19	.58	.39	.36
19	.26	.38	.68	.44	.33	49.66	.49	.16	.26	.59	.64	.35
20	.30	.34	.61	.32	50.14	48.96	48.14	.14	.24	.55	.63	.34
21	45.32	45.48	45.51	46.19	51.16	48.60	48.02	46.12	46.23	45.54	45.62	45.33
22	.35	.51	.47	.08	.60	.31	47.75	.09	.22	.53	.61	.32
23	.36	.42	.48	.01	52.41	.26	.60	.08	.28	.52	.60	.30
24	.34	.84	.58	.65	.21	.65	48.32	.07	.31	.51	.59	.27
25	.31	46.34	.55	47.03	.23	.89	.11	.06	.34	.49	.58	.24
26	45.28	46.30	45.50	47.24	51.81	48.78	47.39	46.06	46.33	45.48	45.57	45.21
27	.23	.14	.48	46.97	50.78	.48	.17	.08	.33	.47	.56	.20
28	.21	.04	.44	.66	49.99	.53	.28	.08	.34	.46	.55	.24
29	.20	45.87	.45	.81	50.00	49.26	.69	.09	.34	.45	.45	.21
30	.19	.79	.44	47.42	.00	.36	.54	.10	.30	.45	.45	.19
31		.78		.28	.01		.21		.32	.45		.21
Mean	45.35	45.72	45.63	46.57	49.00	50.00	41.49	46.32	46.20	45.76	45.46	45.37
Max.	45.56	46.53	46.09	47.80	52.41	52.76	49.39	47.02	46.34	46.27	45.64	45.54
Min.	45.19	45.20	45.41	45.57	46.87	48.26	46.74	46.06	46.08	45.45	45.37	45.19

WATER YEAR 1960 : Max. 52.76 m. Min. 45.19 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	28	18	68	58	237	899	746	261	104	68	38	31
2	29	102	52	59	528	803	556	240	102	66	39	31
3	30	81	41	55	474	774	478	223	100	63	39	30
4	32	63	38	66	350	786	414	213	99	61	38	30
5	32	56	39	184	292	686	362	197	98	62	37	30
6	35	45	39	253	273	774	330	186	95	63	35	29
7	35	37	59	344	255	844	299	184	93	64	34	29
8	54	31	114	402	282	1,150	287	173	92	64	33	29
9	52	37	119	326	326	993	268	168	92	62	34	30
10	50	40	106	229	398	851	253	162	90	60	34	30
11	49	63	98	194	450	1,467	244	156	89	59	34	29
12	48	183	88	167	619	1,743	237	155	88	58	34	29
13	44	140	77	154	546	1,600	228	149	87	57	34	28
14	39	110	64	156	444	1,547	218	148	86	55	34	29
15	34	76	83	149	357	1,356	216	144	82	53	34	29
16	29	63	71	148	317	1,314	250	138	80	52	34	28
17	28	51	70	144	323	1,353	290	135	78	51	34	27
18	26	41	69	165	468	1,419	323	130	78	49	36	26
19	23	35	68	168	508	800	344	128	75	48	38	25
20	27	31	59	151	916	580	470	126	75	48	39	22
21	29	45	48	133	1,204	562	446	123	76	47	38	21
22	32	48	44	117	1,340	504	389	119	77	46	37	20
23	33	39	45	107	1,617	494	364	117	78	45	36	20
24	31	87	56	202	1,547	572	506	116	79	44	35	19
25	28	154	52	263	1,554	624	464	114	79	42	34	19
26	25	148	47	299	1,408	600	326	112	77	41	32	18
27	21	126	45	253	1,092	538	287	110	75	40	31	18
28	19	112	41	204	880	548	306	109	73	40	31	17
29	18	90	40	228	882	707	381	108	72	39	31	16
30	17	81	41	332	882	736	353	106	71	38	31	15
31	80	80	306	884	884	294	294	70	70	37	37	16
Total	977	2,313	1,881	6,016	21,653	27,624	10,929	4,550	2,610	1,622	986	770
Mean	32.6	74.6	62.7	194	698	921	352	152	84.2	52.3	35.2	24.8
Max.	54	183	119	402	1,617	1,743	746	261	104	68	39	31
Min.	17	18	38	55	237	494	216	106	70	37	31	15
Runoff - mcm.	84.413	199.843	162.518	519.782	1,870.819	2,386.714	944.266	393.120	225.504	140.140	85.190	66.528

WATER YEAR 1960 : Max. 1,743 Min. 15 Mean 224 Annual Runoff 7,078.838 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 12	12.00	52.80	1,758				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Phichai, Uttaradit (N.4)

Location: Lat 17°- 16' - 20" N, Long 100°- 04' - 52" E, on right bank near railway station, Amphoe Phichai, Uttaradit.

Drainage Area: 19,297 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +43.85 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: North of Phichai Railway Station
Elevation: +53.327 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: 1946 - 47, 1951 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 for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

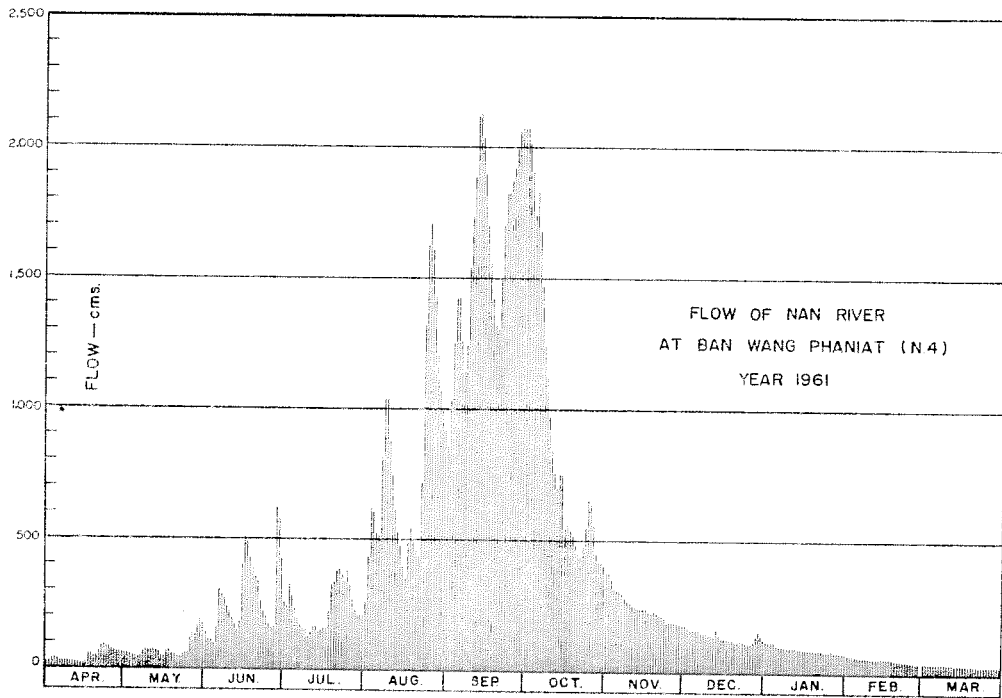
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67.
No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.23	45.61	46.18	46.83	47.00	49.85	53.60	47.62	46.47	46.06	45.70	45.55
2	.50	.57	.00	.84	.84	50.58	.42	.65	.43	.04	.70	.55
3	.41	.53	.05	47.37	46.87	51.25	.10	.48	.38	.07	.70	.54
4	.41	.52	45.96	.09	.80	.84	52.70	.29	.37	.06	.69	.54
5	.36	.51	46.38	46.83	.34	.85	.98	.29	.36	45.95	.69	.54
6	45.31	45.47	47.27	46.60	48.34	51.25	52.50	47.25	46.34	45.94	45.67	45.53
7	.50	.52	.18	.43	49.58	50.88	51.81	.22	.29	.92	.67	.53
8	.29	.69	.09	.33	50.57	51.25	.25	.13	.27	.91	.65	.53
9	.27	.71	46.84	.34	.58	52.30	50.80	.06	.25	.90	.65	.53
10	.27	.68	.76	.13	49.58	.77	.28	.01	.24	.90	.65	.53
11	45.24	45.70	46.59	46.27	49.22	53.15	49.72	46.95	46.23	45.89	45.65	45.52
12	.23	.71	.47	.40	48.75	.82	.34	.92	.21	.88	.65	.52
13	.21	.68	.30	.44	.23	.73	.19	.89	.39	.86	.64	.52
14	.21	.65	.56	.24	.16	.49	.45	.87	.18	.86	.62	.52
15	.20	.50	47.81	.34	47.66	.01	.39	.89	.16	.85	.62	.52
16	45.23	45.50	48.33	46.38	47.48	52.52	48.48	46.85	46.15	45.85	45.61	45.51
17	.54	.68	.20	.32	48.24	.07	.58	.78	.13	.84	.61	.51
18	.55	.71	47.83	.72	.50	51.63	.45	.77	.12	.83	.61	.51
19	.44	.60	.72	47.36	.25	.51	.35	.82	.10	.82	.59	.51
20	.49	.55	.54	.41	.06	.47	.15	.78	.08	.82	.58	.50
21	45.70	45.51	47.44	47.65	47.92	52.07	48.01	46.72	46.07	45.80	45.58	45.50
22	.85	.50	46.96	.71	48.93	.66	47.97	.70	.05	.79	.57	.50
23	.87	.54	.73	.57	51.47	.97	48.20	.65	.04	.77	.57	.50
24	.79	.59	.64	.50	52.44	.97	.54	.55	.03	.77	.57	.50
25	.79	.65	.45	.67	.65	53.12	49.01	.57	.02	.76	.56	.49
26	45.72	46.10	46.32	47.34	52.33	53.21	48.93	46.57	46.00	45.83	45.56	45.49
27	.66	.20	.39	.00	51.74	.42	.48	.55	.06	.74	.56	.49
28	.64	.20	49.27	46.79	51.00	.57	47.88	.52	.19	.73	.56	.49
29	.62	.45	48.65	.64	50.58	.62	.88	.50	.35	.73	.49	.49
30	.62	.58	47.27	.69	.44	.59	.85	.48	.25	.72	.48	.48
31		.47		47.01	.23		.80		.15	.71		.48
Mean	45.46	45.74	47.04	46.85	49.42	52.38	49.74	46.91	46.20	45.86	45.62	45.51
Max.	45.87	46.58	49.27	47.71	52.65	53.82	53.60	47.65	46.47	46.07	45.70	45.55
Min.	45.20	45.47	45.96	46.13	47.00	49.85	47.80	46.48	46.00	45.71	45.56	45.48

WATER YEAR 1961 : Max. 53.82 m. Min. 45.20 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	59	131	231	258	846	2,070	366	173	114	64	38
2	27	55	106	232	410	1,034	1,997	373	167	112	63	37
3	38	50	110	323	619	1,231	1,872	342	159	116	63	36
4	38	49	101	273	664	1,419	1,720	308	158	114	62	36
5	33	48	159	231	510	1,422	1,826	308	156	100	60	36
6	28	44	305	194	510	1,231	1,649	301	154	99	60	35
7	27	49	269	167	781	1,121	1,408	296	147	96	59	35
8	26	69	273	152	1,032	1,231	1,231	280	144	95	57	34
9	24	71	232	154	1,034	1,579	1,098	268	141	94	56	33
10	24	68	220	124	853	1,747	953	260	140	94	56	33
11	22	70	192	144	698	1,891	815	250	138	93	55	32
12	21	71	173	162	593	2,161	729	245	135	92	55	32
13	19	68	148	168	488	2,124	691	240	161	89	54	31
14	19	64	188	140	474	2,025	750	237	131	89	54	31
15	18	47	404	154	375	1,838	746	240	128	88	54	30
16	21	47	508	159	342	1,656	538	234	127	88	52	30
17	51	68	482	151	490	1,498	558	223	124	87	52	29
18	52	71	408	213	542	1,350	532	221	123	86	50	28
19	41	58	387	321	492	1,311	512	229	120	84	49	27
20	46	52	353	330	454	1,299	472	223	117	84	48	27
21	70	48	335	373	426	1,498	444	213	116	82	47	27
22	88	47	252	385	633	1,706	436	210	113	81	44	26
23	90	51	215	359	1,299	1,823	482	202	112	78	42	26
24	81	57	200	346	1,628	1,823	550	186	110	78	42	26
25	81	64	170	377	1,702	1,880	650	189	109	77	40	25
26	72	120	151	317	1,589	1,915	633	189	106	86	39	25
27	65	134	161	258	1,385	1,997	538	183	114	75	38	24
28	63	134	619	224	1,156	2,058	418	181	133	74	38	24
29	60	170	572	200	1,034	2,078	418	178	155	74	38	23
30	60	191	305	208	996	2,066	412	175	141	72	38	22
31	173	173	206	206	904	904	402	402	127	71	38	22
Total	1,326	2,367	8,149	7,330	24,347	48,858	27,550	7,350	4,179	2,762	1,453	920
Mean	44.2	76.3	272	236	785	1,615	889	244	135	89.1	51.9	29.7
Max.	90	191	619	385	1,702	2,161	2,070	373	173	116	64	38
Min.	18	44	101	124	258	846	402	175	106	71	38	22
Runoff - mcm.	114.566	204.509	704.074	633.312	2,103.581	4,221.331	2,380.320	635.040	361.066	283.637	125.539	79.488

WATER YEAR 1961 : Max. 2,161 Min. 18 Mean 374 Annual Runoff 1,801.462 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 12	06.00	53.83	2,166				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
NAN RIVER BASIN

Nan River at Phichai, Uttaradit (N.4)

Location: Lat 17°- 16' - 20" N, Long 100°- 04' - 52" E, on right bank near railway station, Amphoe Phichai, Uttaradit.

Drainage Area: 19,297 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +43.85 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: North of Phichai Railway Station

Elevation: +53.327 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: 1946 - 47, 1951 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 for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

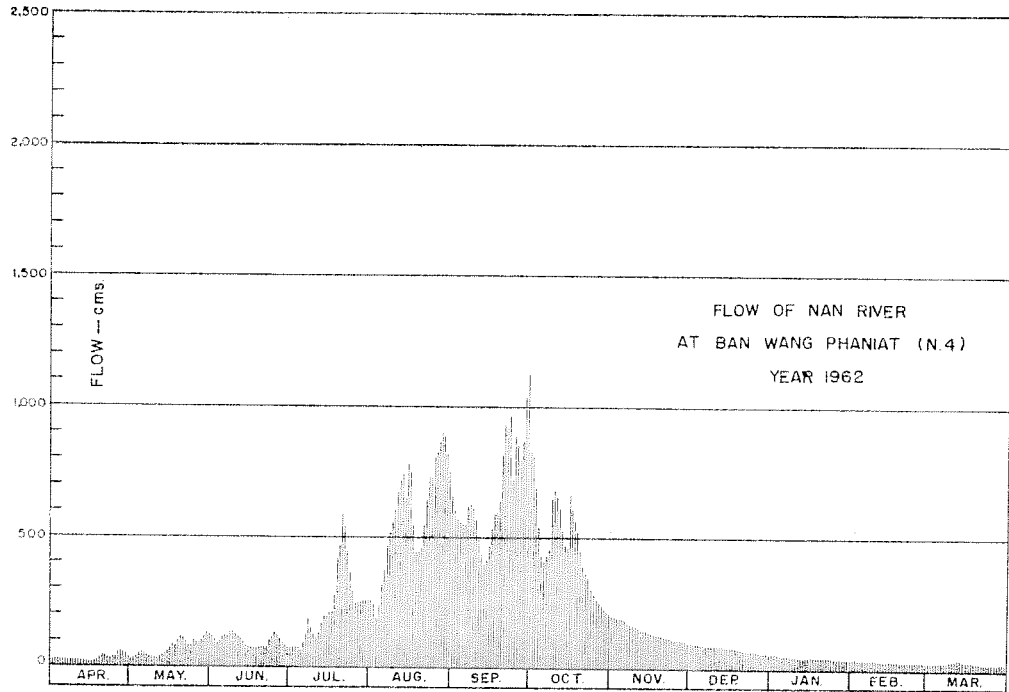
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.25	45.32	46.06	45.73	47.09	48.95	49.76	46.62	45.92	45.58	45.39	45.26
2	.25	.35	45.96	.75	46.83	.70	.66	.60	.90	.57	.38	.26
3	.24	.41	.81	.75	.54	.60	48.86	.57	.88	.55	.37	.27
4	.24	.55	46.00	.71	.94	.55	.16	.55	.87	.54	.37	.27
5	.24	.57	.05	.66	47.37	.54	47.83	.53	.87	.54	.36	.28
6	45.25	45.49	46.09	45.66	47.61	48.54	47.82	46.53	45.86	45.53	45.36	45.28
7	.25	.47	.06	.93	48.14	.85	.92	.44	.85	.52	.35	.28
8	.24	.41	.19	46.23	.42	.90	48.04	.41	.84	.52	.35	.30
9	.24	.37	.23	.56	.57	.82	.97	.37	.83	.51	.35	.31
10	.23	.37	.16	.25	.82	.57	49.14	.36	.82	.50	.34	.32
11	45.23	45.36	46.09	46.15	49.07	48.14	49.01	46.31	45.81	45.50	45.33	45.33
12	.22	.43	.00	.08	.28	47.89	48.74	.26	.80	.49	.33	.35
13	.21	.50	45.90	.20	.36	.70	.26	.24	.79	.48	.32	.36
14	.20	.61	.78	.45	48.88	.89	.10	.22	.78	.47	.32	.33
15	.20	.67	.75	.58	.56	48.14	.08	.19	.77	.47	.32	.31
16	45.19	45.78	45.74	46.58	48.42	48.42	49.05	46.16	45.76	45.46	45.31	45.28
17	.21	.81	.73	.70	.18	.70	48.67	.15	.75	.46	.31	.26
18	.28	.75	.73	.73	47.95	.77	.59	.13	.74	.45	.30	.25
19	.40	.99	.75	47.17	.99	49.00	.27	.13	.72	.45	.30	.24
20	.48	46.07	.76	.85	48.00	.64	47.85	.11	.70	.45	.30	.23
21	45.40	46.03	45.74	48.41	48.42	50.18	47.64	46.08	45.69	45.45	45.29	45.22
22	.34	45.92	.75	.70	.99	.14	.55	.07	.67	.44	.29	.21
23	.33	.75	46.00	.36	49.34	.32	.38	.04	.66	.44	.28	.20
24	.41	.82	.07	47.91	.32	49.22	.24	.02	.65	.44	.27	.20
25	.41	.97	.20	.50	.65	50.00	.10	.01	.64	.43	.27	.19
26	45.56	45.91	46.12	47.15	49.75	49.82	47.00	45.99	45.63	45.42	45.27	45.19
27	.61	.98	.00	46.93	.89	.55	46.92	.97	.62	.42	.26	.19
28	.54	46.00	45.90	.94	50.05	50.00	.84	.95	.61	.41	.26	.20
29	.50	.15	.79	.96	.00	.50	.78	.94	.60	.41	.20	.20
30	.37	.18	.72	.97	49.60	.90	.71	.93	.60	.40	.20	.20
31		.14		.99	.35		.65		.59	.40		.19
Mean	45.32	45.71	45.94	46.73	48.59	49.06	48.02	46.23	45.75	45.47	45.32	45.26
Max.	45.61	46.18	46.23	48.70	50.05	50.90	49.76	46.62	45.92	45.58	45.39	45.36
Min.	45.19	45.32	45.72	45.66	46.54	47.70	46.65	45.93	45.59	45.40	45.26	45.19

WATER YEAR 1962 : Max. 50.90 m. Min. 45.19 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	29	114	74	258	637	824	197	96	56	36	23
2	22	32	101	76	231	582	800	194	94	55	35	23
3	22	38	83	76	184	562	617	189	92	52	34	24
4	22	52	106	71	248	552	474	186	90	51	34	24
5	22	55	113	65	323	550	408	183	90	51	33	25
6	22	46	119	98	366	550	406	183	89	50	33	25
7	22	44	114	138	470	615	426	168	88	49	32	25
8	22	38	133	188	526	626	450	164	87	49	32	27
9	22	34	138	141	556	608	641	158	86	48	32	28
10	22	34	128	127	608	556	679	156	84	47	31	29
11	21	33	119	117	663	470	650	149	83	47	30	30
12	20	40	106	134	711	420	591	142	82	46	30	32
13	19	47	94	170	736	383	494	140	81	45	29	33
14	18	59	80	191	622	420	462	137	80	44	29	30
15	18	59	76	191	776	470	458	133	78	44	29	28
16	17	80	75	210	744	526	659	128	77	43	28	25
17	19	83	74	215	478	582	576	127	76	43	28	23
18	25	76	74	287	432	597	560	124	75	42	27	22
19	37	105	76	412	440	648	496	124	72	42	27	22
20	45	116	77	470	442	796	412	121	70	42	27	21
21	37	110	75	582	526	927	372	117	69	42	26	20
22	31	96	76	514	646	916	355	116	66	41	26	19
23	30	76	106	424	729	963	324	112	65	41	25	18
24	38	84	116	346	723	698	299	109	64	41	24	18
25	38	102	134	283	798	882	275	107	63	40	24	17
26	54	95	123	247	822	839	258	105	62	39	24	17
27	59	93	106	248	856	774	245	102	60	39	23	17
28	51	106	94	252	894	882	232	100	59	38	23	18
29	47	127	81	253	882	1,012	223	99	58	38	23	18
30	34	131	72	256	786	1,127	212	98	58	37	23	18
31		126			732		202		57	37		17
Total	878	2,246	2,983	6,856	18,208	20,170	14,080	4,168	2,351	1,379	811	716
Mean	29.3	72.4	99.4	228	584	672	454	139	75.8	44.5	29.0	23.1
Max.	59	131	138	582	894	1,127	824	197	96	56	36	33
Min.	17	29	72	65	184	383	202	98	57	37	23	17
Runoff - mcm.	75.859	194.054	257.731	592.358	1,565.395	1,742.688	1,216.512	360.115	203.126	119.146	70.070	61.862

WATER YEAR 1962 : Max. 1,127 Min. 17 Mean 205 Annual Runoff 6,466.694 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.30	06.00	50.90	1,127				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAN RIVER BASIN

Nan River at Muang Phitsanulok (N.5)

Location: Lat $16^{\circ} - 48' - 35''$ N, Long $100^{\circ} - 15' - 37''$ E, on left bank at Ban Wat Chan, 50 meters downstream from ice factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,207 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1506

Location: On left bank along the gage line.
Elevation: +44.739 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: 1922 - 28, 1950 to date.

Rating Operation:

Period of Rating: 1953 - 56
Rated by Float: -
Rated by Current Meter: 1953 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

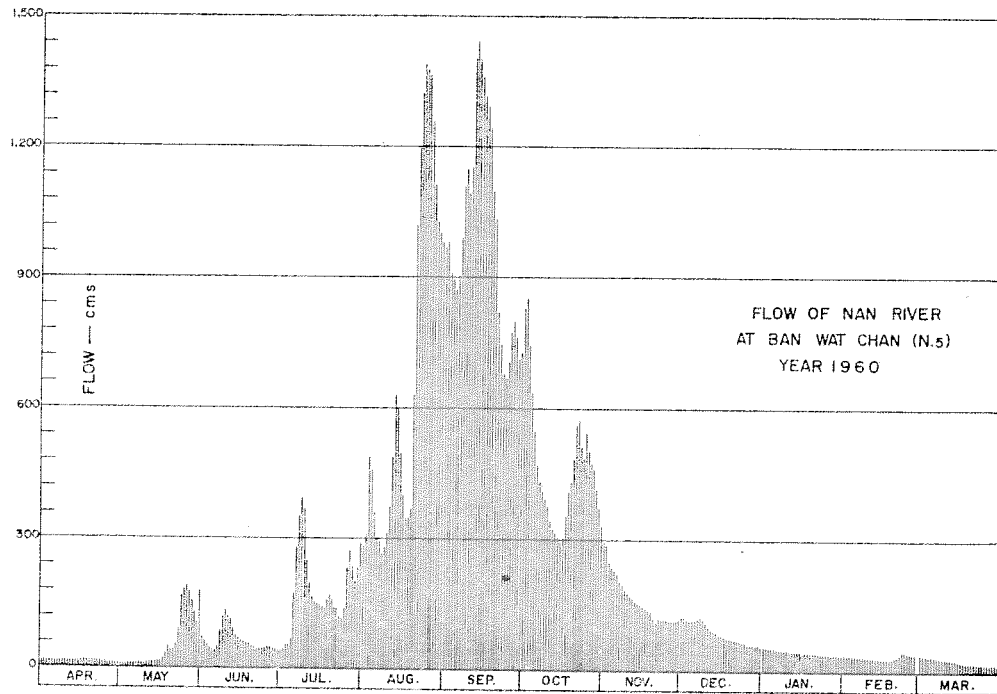
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1953 - 56.
No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.66	34.50	35.69	35.21	37.77	43.36	41.56	37.61	36.30	34.43	35.15	35.14
2	.65	.49	.54	.30	38.03	.42	.69	.52	.29	.42	.14	.12
3	.64	.48	.41	.42	39.38	.01	.01	.39	.23	.41	.13	.10
4	.64	.49	.27	.40	.18	41.97	40.36	.32	.22	.40	.12	.08
5	.64	.50	.22	.60	38.43	.79	39.83	.29	.20	.39	.10	.07
6	34.64	34.51	35.15	36.65	37.94	41.99	39.28	37.18	36.20	35.38	35.09	35.06
7	.63	.52	.37	37.74	.89	42.48	38.97	.09	.26	.34	.07	.03
8	.63	.53	.81	38.35	.64	43.11	.81	.00	.31	.33	.05	.00
9	.64	.54	36.23	.67	.78	.29	.70	36.93	.25	.33	.03	34.99
10	.64	.55	.40	.48	38.05	42.99	.57	.86	.14	.31	.01	.97
11	34.65	34.58	36.23	37.55	38.52	43.30	38.32	36.79	36.05	35.30	35.01	34.96
12	.65	.61	.16	.04	39.37	44.46	.17	.73	35.99	.29	.00	.95
13	.65	.64	35.96	36.77	40.34	.60	.05	.69	.93	.28	34.99	.94
14	.66	.67	.74	.62	.15	.45	.00	.66	.88	.27	.98	.92
15	.67	.71	.62	.59	39.47	.27	37.89	.60	.85	.26	.97	.89
16	34.68	34.74	35.51	36.54	38.75	44.07	37.95	36.51	35.81	35.25	34.96	34.85
17	.69	.76	.48	.53	.33	43.97	38.37	.45	.77	.24	.95	.80
18	.70	35.04	.46	.47	.35	.75	.32	.45	.73	.23	.95	.78
19	.69	.35	.46	.69	39.24	.07	.97	.36	.70	.22	.98	.78
20	.70	.20	.33	.80	40.34	42.69	39.27	.21	.69	.21	35.03	.77
21	34.70	35.25	35.32	36.69	42.63	41.50	39.88	36.14	35.65	35.21	35.12	34.76
22	.68	.37	.26	.49	43.52	.06	.94	.21	.64	.20	.18	.76
23	.66	.85	.21	.28	44.10	40.65	.57	.25	.61	.19	.26	.75
24	.64	36.74	.21	.19	.39	.57	.35	.22	.59	.19	.26	.74
25	.62	.89	.27	.46	.34	.82	.77	.20	.56	.18	.22	.73
26	34.60	36.97	35.35	37.36	44.30	41.24	39.50	36.19	35.52	35.18	35.21	34.71
27	.58	.86	.33	.70	43.82	.39	.31	.19	.50	.17	.20	.70
28	.54	.62	.26	.44	.12	.17	38.89	.19	.50	.16	.16	.70
29	.52	.36	.25	.07	42.67	40.85	.43	.19	.48	.16	.69	.69
30	.51	.08	.24	.35	.54	.94	.82	.20	.47	.16	.68	.68
31		35.86		.88	.42		37.86		.45	.15		.67
Mean	34.64	35.23	35.52	36.82	40.41	42.44	39.15	36.65	35.86	35.26	35.08	34.87
Max.	34.70	36.97	36.40	38.67	44.39	44.60	41.69	37.61	36.31	35.43	35.26	35.14
Min.	34.51	34.48	35.15	35.21	37.64	40.57	37.86	36.14	35.45	35.15	34.95	34.67

WATER YEAR 1960 : Max. 44.60 m. Min. 34.48 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	8.00	73	41	279	970	830	260	124	55	37	37
2	13	7.70	63	46	311	981	852	250	123	54	37	36
3	13	7.40	54	54	487	907	738	235	118	54	36	35
4	13	7.70	44	53	459	900	634	227	117	53	36	34
5	13	8.00	41	67	360	869	554	224	115	52	35	33
6	13	8.30	37	155	300	903	473	212	115	52	34	33
7	12	8.60	51	276	294	991	430	202	120	49	33	31
8	12	8.90	82	349	264	1,111	409	192	125	48	32	30
9	13	9.20	118	391	281	1,149	395	184	119	47	31	29
10	13	9.50	133	366	313	1,088	378	177	110	47	30	28
11	13	10	118	253	372	1,149	346	169	101	46	30	28
12	13	11	111	196	486	1,403	327	163	96	45	30	27
13	13	13	94	167	631	1,437	313	159	91	45	29	27
14	13	14	77	153	602	1,401	307	156	87	44	29	26
15	14	15	68	150	500	1,359	294	151	85	44	28	24
16	14	17	61	146	401	1,313	301	143	82	43	28	22
17	15	18	59	145	347	1,291	352	137	79	42	27	20
18	15	32	57	139	349	1,243	411	137	76	42	27	19
19	15	49	57	159	468	1,103	430	129	74	41	29	19
20	15	40	48	170	651	1,051	472	116	73	41	31	18
21	15	43	47	159	1,020	920	562	110	70	41	36	18
22	14	51	44	141	1,194	746	571	116	70	40	39	18
23	13	85	41	122	1,320	680	515	119	68	39	44	17
24	13	164	41	114	1,387	667	483	117	66	39	44	17
25	12	180	44	138	1,375	707	545	115	64	39	41	16
26	11	189	49	232	1,366	776	505	114	61	39	41	15
27	10	177	48	271	1,258	801	477	114	60	38	40	15
28	9.20	153	44	240	1,113	764	420	114	60	38	38	15
29	8.60	129	43	200	1,027	712	360	114	59	38		15
30	8.30	104	42	250	981	726	310	115	58	38		14
31		86		293			290		56	37		14
Total	382.10	1,663.30	1,899	5,616	21,179	29,998	14,284	4,771	2,722	1,370	952	730
Mean	12.7	53.6	62.9	181	683	1,000	461	159	87.8	44.2	34.0	23.5
Max.	15	189	133	391	1,387	1,437	852	260	125	55	44	37
Min.	8.30	7.40	37	41	264	667	290	110	56	37	27	14
Runoff - BCM.	33.013	143.709	163.210	485.222	1,829.868	2,591.8	1,234.138	412.214	235.181	118.368	82.253	63.072

WATER YEAR 1960 : Max. 1,437 Min. 7.40 Mean 234 Annual Runoff 7,392.073 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 13	18.00	44.64	1,447				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Muang Phitsanulok (N.5)

Location: Lat 16°-48' - 35" N, Long 100°-15' - 37" E, on left bank at Ban Wat Chan, 50 meters downstream from ice factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,207 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1056

Location: On left bank along the gage line.

Elevation: +44.739 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: 1922 - 28, 1950 to date.

Rating Operation:

Period of Rating: 1953 - 56

Rated by Float: -

Rated by Current Meter: 1953 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

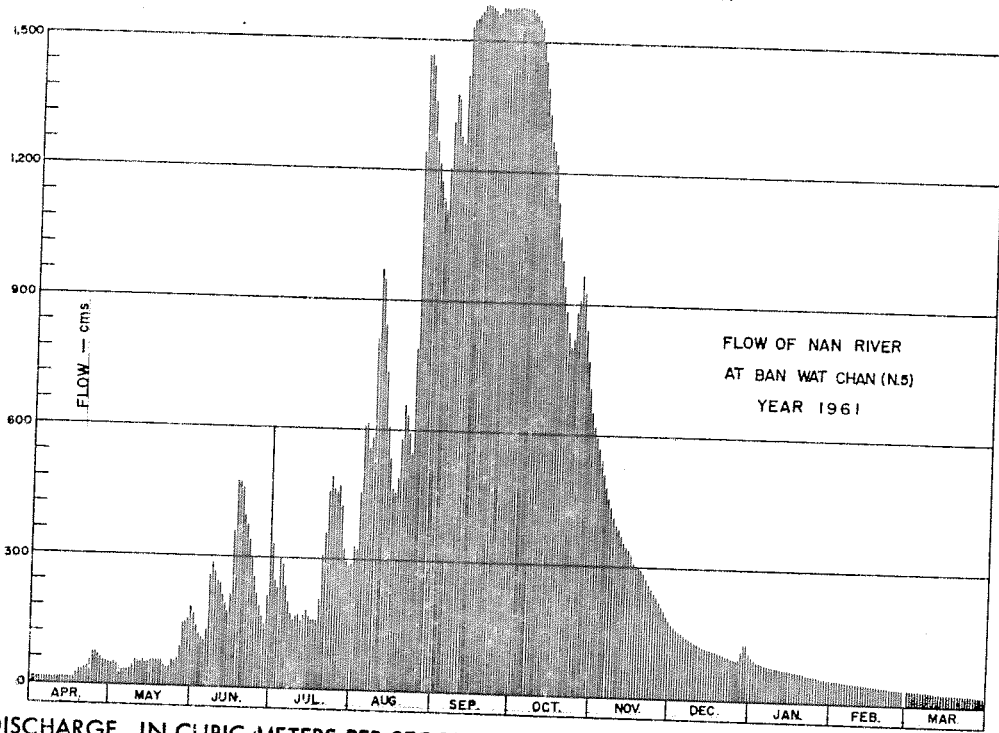
Overbank Flow Conditions: Overbank flow was observed for Sep.14 - Oct.3 but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1953 - 56. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.67	35.36	36.81	38.21	38.20	43.20	45.15	40.13	36.79	36.06	35.40	35.08
2	.66	.36	.51	37.52	.16	.10	.14	39.95	.75	35.95	.39	.07
3	.66	.30	.27	.36	39.15	.56	.15	.74	.70	.91	.38	.06
4	.65	.21	.18	.94	40.19	44.02	.11	.54	.65	.88	.36	.06
5	.64	.08	.09	.84	.25	.35	.10	.54	.60	.86	.35	.06
6	34.64	35.07	36.40	37.44	39.86	44.29	45.06	39.19	36.55	35.83	35.34	35.05
7	.63	.13	37.60	.07	40.03	43.95	44.99	.02	.50	.81	.33	.04
8	.63	.16	.83	36.84	41.44	.83	.82	38.85	.46	.80	.31	.03
9	.63	.31	.66	.70	42.36	44.52	.68	.71	.41	.79	.30	.02
10	.64	.49	.46	.79	.22	.96	.42	.64	.37	.77	.30	.01
11	34.65	35.42	37.44	36.80	41.64	45.04	44.17	38.51	36.33	35.75	35.22	35.00
12	.65	.41	.22	.67	40.98	.06	43.87	.40	.30	.72	.28	34.99
13	.65	.44	.00	.82	.32	.09	.78	.33	.27	.70	.27	.98
14	.65	.37	36.85	.91	39.71	.13	.65	.28	.24	.68	.26	.98
15	.65	.42	37.35	.76	.22	.17	.22	.21	.22	.67	.25	.97
16	34.66	35.46	38.56	36.71	39.16	45.18	42.91	38.01	36.20	35.66	35.24	34.96
17	.67	.48	39.29	.72	.39	.17	.53	37.97	.17	.64	.23	.95
18	.89	.49	.31	.70	40.01	.15	.22	.95	.15	.62	.21	.94
19	35.05	.50	.20	37.12	.52	.13	41.89	.91	.12	.61	.19	.94
20	.05	.48	38.75	38.02	.37	.09	.61	.83	.10	.60	.18	.93
21	35.12	35.32	38.56	38.44	40.10	45.11	41.39	37.73	36.07	35.58	35.16	34.92
22	.24	.24	.29	39.19	39.79	.15	.49	.63	.04	.55	.14	.91
23	.44	.27	.01	.41	41.31	.15	.85	.53	.01	.53	.13	.91
24	.69	.50	37.59	.22	43.73	.15	42.02	.44	35.99	.52	.13	.91
25	.69	.43	.23	.15	44.70	.14	.34	.35	.96	.50	.12	.90
26	35.60	35.57	36.99	39.25	44.71	45.15	42.11	37.27	35.95	35.48	35.11	34.89
27	.48	36.08	.75	38.90	.61	.16	41.61	.19	.98	.46	.10	.88
28	.40	.57	.55	.19	.26	.15	.22	.09	36.18	.45	.09	.87
29	.38	.59	37.20	37.92	43.85	.16	40.83	36.99	.38	.43	.43	.86
30	.37	.67	40.17	.81	.63	.16	.54	.88	.37	.42	.42	.85
31		.93		.88	.43		.32		.20	.41		.85
Mean	34.95	35.55	37.57	37.69	41.20	44.75	43.07	38.25	36.29	35.66	35.24	34.99
Max.	35.69	36.93	40.17	39.41	44.71	45.18	45.15	40.13	36.79	36.06	35.40	35.08
Min.	34.63	35.07	36.09	36.67	38.16	43.10	40.32	36.88	35.95	35.41	35.09	34.85

WATER YEAR 1961 : Max. 45.18 m. Min. 34.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	50	171	332	331	1,129	1,575	599	169	102	53	34
2	13	50	143	249	326	1,109	1,573	572	165	93	52	33
3	13	46	121	232	455	1,203	1,575	541	160	90	52	33
4	13	41	113	300	608	1,302	1,565	511	155	87	50	33
5	13	34	105	288	617	1,377	1,562	483	151	86	49	33
6	13	33	133	240	559	1,364	1,552	461	146	83	49	32
7	12	36	259	200	584	1,287	1,533	437	142	82	48	32
8	12	38	287	174	810	1,261	1,490	414	138	81	47	31
9	12	47	266	160	970	1,418	1,456	396	134	80	46	31
10	13	59	243	169	945	1,526	1,394	387	130	79	46	30
11	13	54	240	170	844	1,546	1,336	370	127	77	45	30
12	13	54	216	157	733	1,552	1,269	356	124	75	45	29
13	13	56	192	172	628	1,558	1,250	347	121	74	44	29
14	13	51	175	182	536	1,570	1,221	341	119	73	44	29
15	13	54	230	166	465	1,581	1,133	332	117	72	43	28
16	13	57	377	161	456	1,584	1,073	308	115	71	42	28
17	14	59	475	162	489	1,581	1,001	303	112	70	42	27
18	24	59	477	160	581	1,575	945	301	110	68	41	27
19	32	60	462	205	659	1,570	886	296	108	68	39	27
20	32	59	401	309	635	1,558	839	287	106	67	39	26
21	36	47	377	361	595	1,565	801	275	103	66	38	26
22	42	42	342	461	548	1,575	818	263	101	63	37	25
23	56	44	308	491	788	1,575	879	251	98	62	36	25
24	73	60	258	465	1,239	1,575	909	240	96	61	36	25
25	73	55	217	455	1,461	1,573	966	230	94	60	36	25
26	67	65	191	469	1,463	1,575	925	222	93	59	35	24
27	59	104	165	421	1,439	1,578	839	213	95	57	35	24
28	53	148	146	330	1,357	1,575	772	202	113	56	34	23
29	52	150	214	297	1,265	1,578	709	191	131	55	34	23
30	51	157	605	284	1,217	1,578	662	179	130	54	34	22
31		184	293	1,175	628				115	54	34	22
Total	870	2,053	7,909	8,515	24,778	44,398	35,136	10,308	3,818	2,225	1,203	855
Mean	29	66.2	264	275	799	1,480	1,133	344	123	71.7	42.9	27.5
Max.	73	184	605	491	1,463	1,584	1,575	599	169	102	53	34
Min.	12	33	105	157	326	1,109	628	179	93	54	34	22
Runoff - mcm.	75.168	177.379	683.338	735.696	2,140.819	3,835.987	3,035.750	890.611	329.875	192.240	103.939	73.872

WATER YEAR 1961 : Max. 1,584 Min. 12 Mean 389 Annual Runoff 12,274.675mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 16	18.00	45.18	1,584				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAN RIVER BASIN

Nan River at Muang Phitsanulok (N.5)

Location: Lat $16^{\circ}-48'-35''$ N, Long $100^{\circ}-15'-37''$ E, on left bank at Ban Wat Chan, 50 meters downstream from ice factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,207 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No. 1056

Location: On left bank along the gage line.
Elevation: +44.739 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: 1922 - 28, 1950 to date.

Rating Operation:

Period of Rating: 1953 - 56

Rated by Float: -

Rated by Current Meter: 1953 - 56

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1953 - 56. No state diversions above gage site.

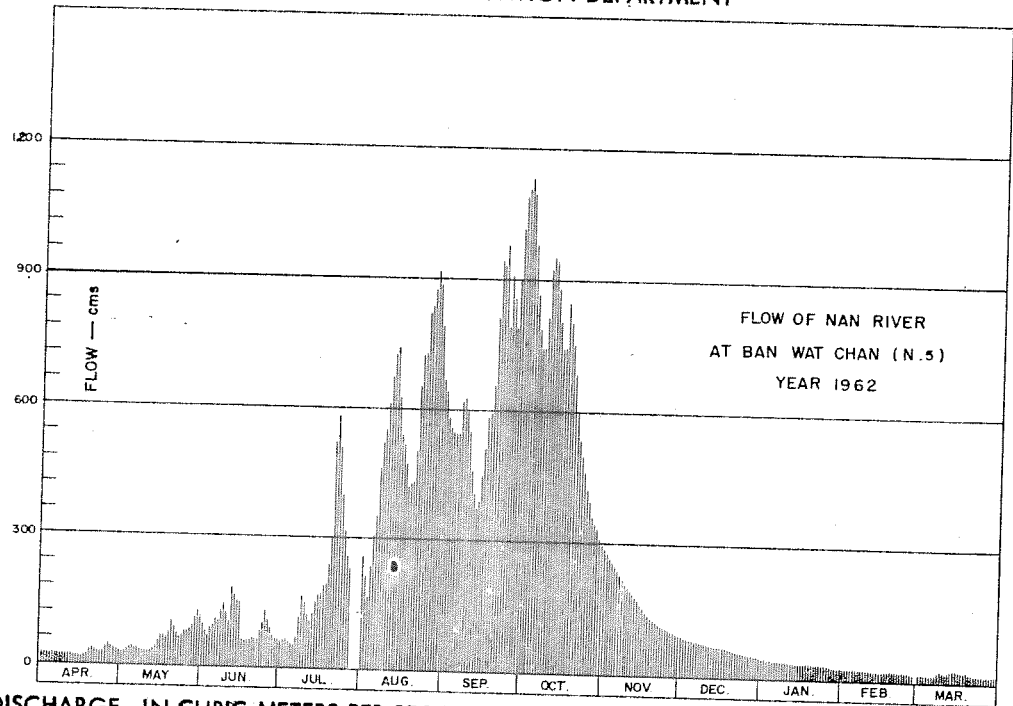
Remarks: No gage height record for Jul. 28 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.84	34.95	36.01	35.52	37.60	40.40	43.09	37.83	35.92	35.28	34.94	34.72
2	.84	.99	35.81	.58	.20	.00	.21	.75	.90	.25	.93	.71
3	.83	35.05	.67	.59	36.76	39.84	.02	.66	.87	.24	.92	.71
4	.83	.18	.92	.50	37.40	.78	42.41	.58	.84	.22	.91	.71
5	.84	.23	36.01	.41	38.00	.75	41.76	.50	.82	.21	.90	.71
6	34.84	35.15	36.13	35.42	38.40	39.75	41.30	37.45	35.81	35.19	34.89	34.72
7	.85	.14	.08	.67	39.20	40.25	.03	.34	.80	.18	.88	.75
8	.83	.07	.36	36.34	.60	.32	.04	.25	.75	.17	.88	.80
9	.82	.03	.53	.75	.80	.20	.47	.15	.72	.16	.88	.80
10	.80	.02	.30	.57	40.20	39.80	42.09	.07	.71	.15	.87	.81
11	34.79	35.00	36.09	36.30	40.60	39.20	42.26	36.99	35.67	35.14	34.86	34.77
12	.78	.08	35.91	.12	.90	38.80	.21	.93	.66	.13	.85	.84
13	.76	.15	.76	.34	41.01	.55	41.85	.86	.65	.12	.84	.89
14	.75	.26	.63	.63	40.30	.80	.41	.77	.64	.11	.84	.91
15	.74	.43	.59	.79	39.79	39.20	.04	.68	.62	.10	.83	.92
16	34.74	35.61	35.57	36.83	39.60	39.60	41.05	36.60	35.61	35.09	34.83	34.87
17	.76	.66	.55	.99	.27	40.00	.65	.53	.59	.08	.82	.82
18	.83	.58	.53	37.04	38.90	.13	.39	.43	.57	.07	.82	.85
19	35.05	.78	.57	.47	.96	.50	.10	.37	.55	.06	.81	.84
20	.13	36.07	.61	38.41	39.00	41.45	40.68	.31	.53	.06	.80	.77
21	35.04	35.96	35.58	39.59	39.60	42.20	40.12	36.27	35.50	35.05	34.80	34.72
22	34.98	.75	.58	.99	40.47	.15	39.72	.22	.48	.04	.79	.70
23	.96	.60	.86	.51	.91	.40	.49	.18	.45	.04	.79	.67
24	35.02	.65	36.11	38.74	.94	40.83	.20	.14	.43	.03	.77	.65
25	.18	.82	.38	.10	41.48	42.00	38.92	.12	.40	.02	.76	.64
26	35.32	35.77	36.14	37.61	41.60	41.70	38.72	36.07	35.38	35.01	34.75	34.63
27	.20	.87	35.92	.36	.80	.33	.44	.04	.37	.00	.74	.61
28	.15	.97	.74	.25	42.05	42.00	.29	.01	.35	34.99	.73	.60
29	.07	36.19	.60	.16	41.87	.60	.21	35.98	.33	.98	.62	.62
30	.00	.34	.53	.06	.33	43.00	.05	.96	.31	.97	.65	.65
31		.20		.25	40.58		37.92		.30	.95		.66
Mean	34.92	35.50	35.87	37.00	39.84	40.55	40.71	36.73	35.60	35.10	34.84	34.74
Max.	35.32	36.34	36.53	39.99	42.05	43.00	43.21	37.83	35.92	35.28	34.94	34.92
Min.	34.74	34.95	35.53	35.41	36.76	38.55	37.92	35.96	35.30	34.95	34.73	34.60

WATER YEAR 1962 : Max. 43.21 m. Min. 34.60 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	27	98	61	259	640	1,107	287	91	45	27	16
2	22	29	82	66	214	580	1,131	277	89	43	26	15
3	21	32	72	66	166	556	1,094	266	87	42	26	15
4	21	39	91	60	236	547	979	257	84	41	25	15
5	22	42	98	54	307	542	864	247	83	41	25	15
6	22	37	109	54	356	542	786	241	82	39	24	16
7	22	37	104	72	462	617	741	229	81	39	24	17
8	21	33	129	128	520	628	742	219	77	38	24	20
9	21	31	145	165	550	610	815	208	75	38	24	20
10	20	31	124	148	610	550	921	200	75	37	23	20
11	19	30	105	124	672	462	952	191	72	37	23	18
12	19	34	90	108	720	408	943	184	71	36	22	22
13	18	37	78	128	738	375	879	177	70	36	22	24
14	17	44	69	154	548	462	742	158	68	35	21	26
15	17	55	66	169	548	462	742	158	68	35	21	26
16	17	68	* 65	173	520	520	744	151	68	34	21	23
17	18	71	63	191	472	580	845	145	66	34	21	21
18	21	66	62	196	421	599	801	136	65	33	21	22
19	32	80	65	244	429	656	752	130	63	33	20	22
20	36	103	68	357	434	811	685	125	62	33	20	18
21	32	94	66	518	520	941	598	121	60	32	20	16
22	29	77	66	578	651	932	538	117	59	32	19	15
23	28	67	86	506	722	977	503	113	56	32	19	14
24	31	70	107	400	726	709	462	110	55	31	18	13
25	39	83	131	319	817	905	424	108	53	31	18	13
26	47	79	110	260	837	854	398	103	52	31	17	12
27	40	87	91	232	671	791	361	101	51	30	17	11
28	37	95	77	* 220	914	905	343	98	49	29	16	11
29	33	114	67	* 210	883	1,014	332	95	48	29	16	11
30	30	128	62	* 198	791	1,090	313	94	47	28	16	11
31	30	115	62	* 220	669		297		46	27	13	13
Total	774	1,935	2,646	6,379	17,660	20,211	21,897	5,055	2,075	1,081	605	533
Mean	25.8	62.4	88.2	206	570	674	706	168	66.9	34.8	21.6	17.1
Max.	47	128	145	578	914	1,090	1,131	287	91	45	27	26
Min.	17	27	62	54	166	375	297	94	46	27	16	11
Runoff - mcm.	66.874	167.184	228.614	551.146	1,525.824	1,746.230	1,891.901	436.752	179.280	93.398	52.272	46.051

WATER YEAR 1962 : Max. 1,131 Min. 11 Mean 221 Annual Runoff 6,985.526 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	06.00	43.22	1,133				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
NAN RIVER BASIN

Nan River at Tha Pla, Uttaradit (N.6A)

Location: Lat 17°-47' - 50" N, Long 100°-31' - 56" E, on right bank 600 meters upstream from the district office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,086 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +73.73 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On right bank near gage site.

Elevation: +90.517 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: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.

Rated by Float: -

Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

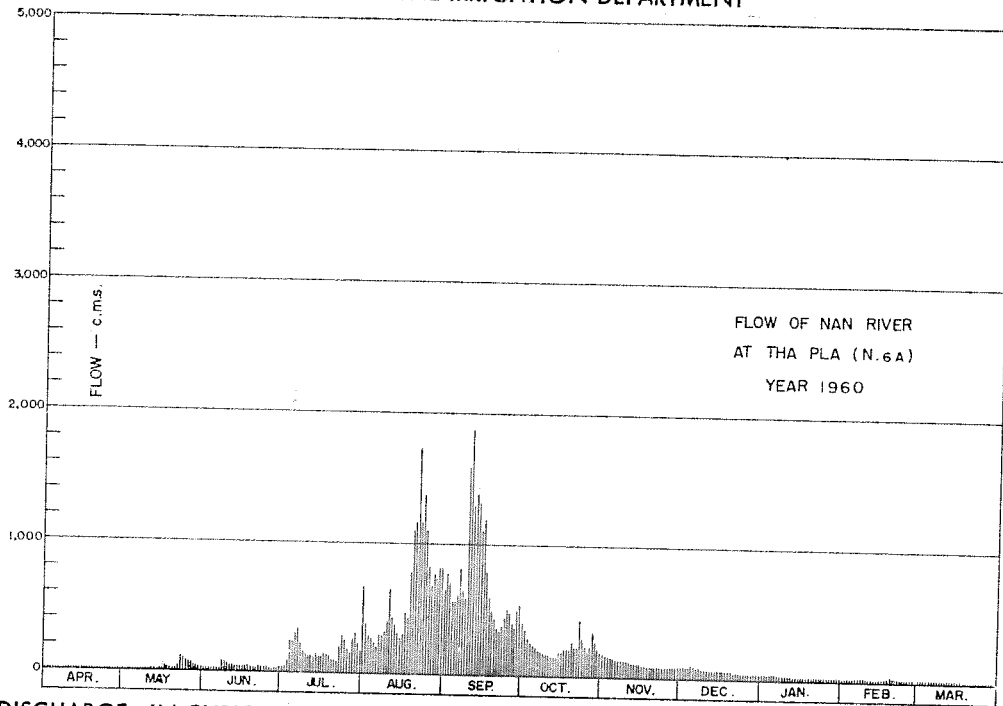
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.61	74.54	74.90	75.04	79.28	79.43	77.89	76.38	75.55	75.09	74.89	74.80
2	.62	.54	.84	.29	77.96	.65	.63	.26	.59	.08	.89	.80
3	.62	.53	.81	.75	.25	.51	.27	.19	.57	.08	.88	.79
4	.61	.54	.85	76.97	.07	78.86	.01	.12	.62	.07	.88	.79
5	.61	.57	75.10	.95	.00	.98	76.87	.06	.78	.06	.88	.78
6	74.60	74.57	75.79	77.36	76.74	79.61	76.76	76.01	75.67	75.06	74.91	74.78
7	.60	.59	.84	.57	77.34	.79	.61	75.97	.57	.05	.92	.77
8	.60	.62	.69	76.90	.31	.28	.51	.92	.60	.04	.91	.77
9	.60	.64	.62	.42	.51	.05	.42	.89	.46	.03	.89	.76
10	.60	.68	.45	.23	.90	81.98	.35	.85	.42	.03	.88	.76
11	74.60	74.69	75.29	76.06	79.13	82.83	76.36	75.81	75.39	75.03	74.87	74.76
12	.60	.75	.16	.16	78.13	81.27	.26	.78	.37	.02	.87	.77
13	.62	.67	.10	.05	77.80	.57	.20	.75	.35	.01	.85	.79
14	.61	.72	.08	.19	.36	.42	.19	.72	.33	.00	.65	.78
15	.60	.80	.05	75.93	.19	80.69	.53	.70	.31	74.99	.83	.76
16	74.60	74.68	74.99	76.04	77.41	80.11	76.54	75.67	75.28	74.98	74.84	74.75
17	.61	75.10	75.08	.16	78.29	79.92	.66	.64	.27	.98	.88	.79
18	.61	74.97	.04	.14	.21	.01	.72	.61	.26	.97	75.03	.75
19	.60	.86	74.98	.02	79.61	78.49	.68	.59	.25	.96	.18	.75
20	.60	.76	.95	75.78	80.94	.13	77.07	.57	.23	.95	.06	.74
21	74.59	74.75	74.96	75.71	81.02	77.81	76.73	75.55	75.21	74.94	74.96	74.73
22	.58	75.20	75.14	.73	82.51	.67	.78	.53	.19	.95	.91	.73
23	.57	76.00	.06	76.71	81.38	.84	77.11	.53	.18	.96	.89	.72
24	.56	75.86	.01	77.27	.75	78.20	.28	.52	.17	.97	.86	.71
25	.55	.73	.00	.01	80.91	.48	76.82	.51	.16	.97	.84	.69
26	74.55	75.54	74.93	76.55	79.87	78.28	76.59	75.50	75.15	74.95	74.82	74.68
27	.55	.40	.91	.37	.36	77.96	.84	.54	.14	.95	.81	.68
28	.55	.27	.91	77.11	.73	.82	77.59	.54	.12	.93	.81	.69
29	.56	.21	75.24	.43	.65	78.27	.05	.65	.12	.92	.82	.72
30	.56	.10	.11	76.91	.81	.65	76.70	.62	.11	.91	.71	.71
31		74.98		.68	.93		.52		.10	.91		.95
Mean	74.59	74.93	75.13	76.40	78.88	79.35	76.79	75.77	75.34	74.99	74.90	74.76
Max.	74.62	76.00	75.84	77.57	82.51	82.83	77.89	76.38	75.78	75.09	75.18	74.95
Min.	74.55	74.53	74.81	75.04	76.74	77.67	76.19	75.50	75.10	74.91	74.81	74.68

WATER YEAR 1960 : Max. 82.83 m. Min. 74.53 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	9.00	29	42	668	654	396	175	83	45	29	24
2	13	9.00	27	59	382	781	351	169	91	44	29	24
3	13	8.00	23	99	294	715	291	159	85	44	28	22
4	12	9.00	29	248	270	560	252	148	92	42	28	22
5	12	11	45	245	257	576	233	143	114	42	28	22
6	12	10	106	306	211	622	218	137	100	42	30	22
7	12	11	105	340	300	815	198	134	82	42	31	22
8	11	12	83	233	297	656	187	129	85	40	38	22
9	12	13	82	170	334	594	175	123	80	40	39	21
10	12	16	67	145	401	1,612	166	125	76	39	28	21
11	12	16	60	123	647	1,875	169	120	73	40	27	21
12	12	20	51	139	439	1,281	157	116	72	39	27	21
13	12	15	48	123	382	1,384	149	112	70	37	26	22
14	12	17	45	153	306	1,337	149	109	68	37	26	22
15	12	20	43	123	279	1,104	192	102	71	36	26	21
16	12	15	42	131	314	1,196	194	97	68	35	27	20
17	12	41	48	146	468	796	210	97	67	36	29	20
18	12	34	45	143	452	592	219	96	66	36	38	19
19	12	28	41	131	789	480	214	94	65	36	48	19
20	12	22	39	109	1,107	441	272	92	64	34	40	19
21	11	22	40	100	1,167	362	222	91	51	35	34	18
22	11	48	51	96	1,724	345	230	93	51	35	31	18
23	10	118	45	204	1,164	380	435	87	50	35	29	17
24	10	108	42	287	1,378	452	300	85	49	35	27	17
25	9.00	90	41	251	1,107	512	229	84	48	34	26	16
26	9.00	72	36	183	823	474	197	82	48	36	25	16
27	9.00	69	35	160	686	399	231	86	49	33	24	16
28	10	53	35	261	773	374	345	85	47	32	24	17
29	10	48	56	312	744	500	266	97	47	31	18	18
30	10	39	46	234	820	540	214	91	45	30	18	18
31		34		167	820		188		45	30	30	30
Total	341	1,037	1,485	5,463	19,803	22,379	7,249	3,358	2,101	1,152	824	629
Mean	11.3	33.4	49.5	176	639	746	234	112	67.8	37.2	29.4	20.3
Max.	13	118	106	340	1,724	1,875	435	175	114	45	48	30
Min.	9.00	8.00	23	42	211	345	149	82	45	30	24	16
Runoff - RCL	29.462	89.597	128.218	472.003	1,710.979	1,933.545	616.314	290.131	181.526	99.533	71.194	54.346

WATER YEAR 1960 : Max. 1,875 Min. 8.00 Mean 180 Annual Runoff 5,686.934 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.10	21.00	83.22	2,046				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Tha Pla, Uttaradit (N.6A)

Location: Lat 17°-47' - 50" N, Long 100°-31' - 56" E, on right bank 600 meters upstream from the district office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,086 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +73.73 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On right bank near gage site.
Elevation: +90.517 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: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.
Rated by Float: -
Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment but mean hourly discharge is included for flow computation.

Overbank Flow Conditions: Overbank flow was observed and is included for flow computation.

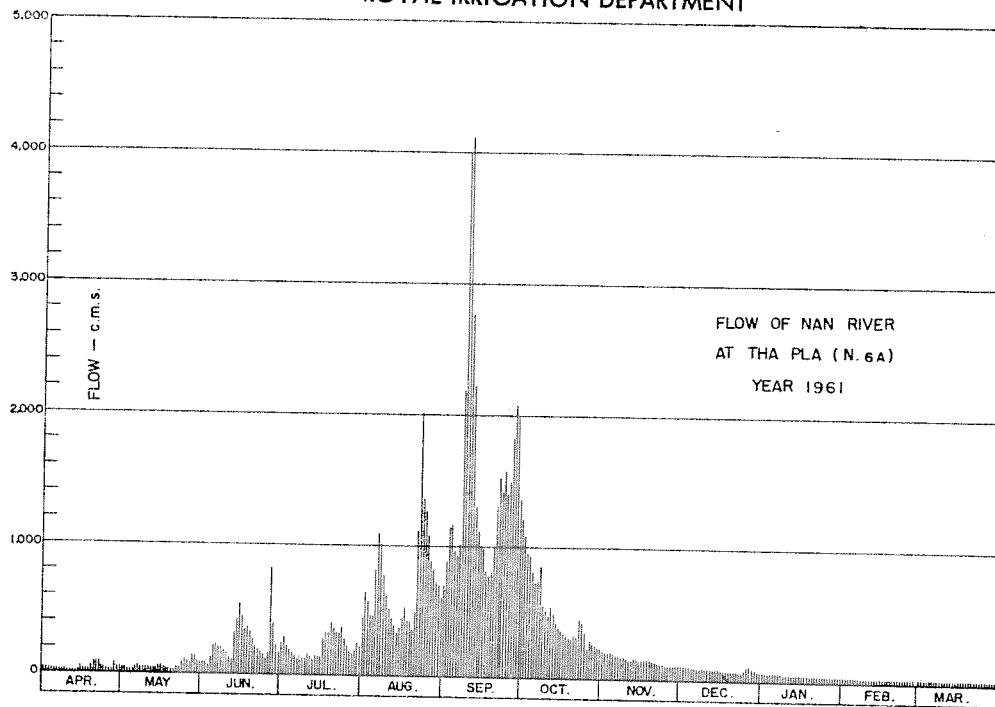
General Description: Records good. The data presented is made by discharge measurement during 1961. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	75.00	75.06	75.62	76.91	78.24	79.42	81.24	76.74	75.76	75.36	75.04	74.86
2	74.97	.06	.57	77.26	79.14	80.13	80.87	.70	.75	.34	.03	.85
3	.87	.00	.41	76.88	78.84	81.04	.38	.64	.72	.32	.03	.85
4	.83	74.99	.98	.53	.29	.11	.30	.63	.70	.30	.02	.83
5	.82	.97	76.75	.35	.27	80.41	79.82	.52	.67	.30	.00	.82
6	74.80	75.21	76.83	76.12	78.89	80.30	79.52	76.46	75.65	75.29	74.99	74.81
7	.77	.33	.61	75.99	80.87	.58	.60	.40	.62	.28	.98	.81
8	.73	.21	.66	76.22	.57	83.89	.16	.34	.61	.28	.97	.80
9	.70	.17	.49	.03	79.71	86.91	78.73	.29	.59	.26	.97	.80
10	.68	.19	.30	.06	.03	87.03	.53	.25	.57	.24	.96	.79
11	74.66	75.09	76.02	76.38	78.55	85.13	78.38	76.25	75.56	75.23	74.96	74.78
12	.65	.09	.86	.16	.16	84.07	.68	.25	.55	.22	.95	.78
13	.66	.03	77.51	.06	77.81	81.59	.45	.29	.58	.21	.95	.78
14	.72	.00	78.08	.21	.55	80.95	.09	.18	.51	.20	.94	.78
15	75.18	.33	.66	.16	.74	.59	77.87	.15	.50	.19	.93	.78
16	74.99	75.35	78.17	76.11	78.25	80.42	77.73	76.21	75.48	75.18	74.91	74.76
17	.84	.17	77.59	77.20	.61	79.87	.57	.23	.47	.16	.89	.76
18	.88	.06	.72	.53	.13	.72	.43	.14	.46	.16	.89	.76
19	75.36	.01	.46	.47	.04	.86	.34	.14	.44	.15	.88	.75
20	.56	74.96	.07	.93	77.78	80.58	.32	.06	.42	.13	.88	.75
21	75.62	75.02	76.74	77.68	78.40	81.54	77.48	76.01	75.39	75.12	74.87	74.75
22	.53	.19	.54	.51	80.88	82.21	.43	75.97	.38	.11	.87	.75
23	.22	.10	.49	.50	83.46	81.91	78.20	.94	.37	.10	.87	.74
24	.02	.64	.17	.68	81.72	82.36	.03	.92	.38	.09	.87	.74
25	74.90	.81	.00	.22	.43	81.86	77.59	.89	.55	.08	.86	.73
26	74.84	75.69	76.26	76.87	80.84	82.13	77.44	75.86	75.79	75.08	74.86	74.73
27	.87	.62	79.79	.54	.14	.99	.19	.84	.86	.07	.86	.72
28	75.50	76.17	77.84	.41	76.90	83.65	.06	.82	.62	.05	.86	.72
29	.10	.08	76.87	.68	.55	.49	76.97	.81	.50	.05	.87	.71
30	.16	75.85	.34	.96	.44	81.71	.90	.78	.43	.04	.87	.71
31		.56		.83	78.95		.82		.39	.04		.70
Mean	74.98	75.37	76.88	76.76	79.30	81.92	78.33	76.19	75.56	75.18	74.93	74.77
Max.	75.62	76.17	79.79	77.93	83.46	87.03	81.24	76.74	75.86	75.36	75.04	74.86
Min.	74.65	74.96	75.41	75.99	77.55	79.42	76.82	75.78	75.37	75.04	74.86	74.70

WATER YEAR 1961 : Max. 87.03 m. Min. 74.65 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39	43	94	242	458	706	1,206	219	107	68	42	30
2	37	43	89	294	644	887	1,094	214	106	66	41	30
3	31	39	73	238	578	1,144	957	206	103	64	40	30
4	29	38	128	193	467	1,165	934	205	102	62	40	29
5	28	37	220	172	466	965	806	192	99	62	38	28
6	27	55	231	144	824	934	730	185	97	62	38	27
7	25	65	203	129	1,094	1,013	749	178	94	61	38	27
8	23	55	209	156	1,010	2,186	849	170	93	61	37	27
9	21	52	188	133	777	3,995	554	164	91	59	37	27
10	19	54	165	137	620	4,110	514	159	89	58	36	26
11	19	46	132	176	520	2,761	484	159	88	57	36	26
12	19	46	116	149	443	2,231	544	159	87	56	36	26
13	19	41	334	137	382	1,318	498	164	85	55	36	26
14	22	39	429	155	341	1,117	431	151	83	54	35	26
15	53	65	540	149	375	1,016	392	148	82	54	35	26
16	38	67	445	143	459	968	370	155	80	53	33	24
17	29	52	347	285	530	819	344	157	79	51	32	24
18	32	43	368	338	438	780	322	146	78	51	32	24
19	68	39	326	328	422	816	307	146	76	50	32	24
20	88	36	267	402	378	1,013	304	137	74	49	32	24
21	94	40	219	362	495	1,302	330	131	71	48	31	24
22	85	54	194	334	1,116	1,528	322	127	70	47	31	24
23	56	46	188	333	2,011	1,423	450	124	69	46	31	23
24	40	96	150	362	1,364	1,578	420	122	70	46	31	23
25	33	111	130	288	1,267	1,406	347	119	87	45	30	23
26	29	101	161	237	1,086	1,500	232	116	109	45	30	23
27	31	94	810	194	890	1,835	283	114	116	44	30	22
28	82	154	393	179	827	2,063	266	112	94	42	30	22
29	46	139	237	211	739	2,000	252	111	82	42	30	22
30	51	115	170	250	713	1,379	241	108	75	42	22	22
31		88	231	603			230		71	42	21	21
Total	1,213	1,989	7,556	7,081	22,337	45,958	15,653	4,598	2,707	1,642	970	780
Mean	40.4	64.2	252	228	720	1,532	505	153	87.3	53.0	34.6	25.2
Max.	94	154	810	402	2,011	4,110	1,206	219	116	68	42	30
Min.	19	36	73	129	341	706	230	108	69	42	30	21
Runoff - mcm.	104.803	171.850	652.838	611.798	1,912.917	3,970.771	1,352.419	397.267	233.885	141.869	83.808	67.392

WATER YEAR 1961 : Max. 4,110 Min. 19 Mean 308 Annual Runoff 9,718.618 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 9	16.00	87.16	4,240				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
NAN RIVER BASIN

Nan River at Tha Pla, Uttaradit (N.6A)

Location: Lat 17° - 47' - 50" N, Long 100° - 31' - 56" E, on right bank 600 meters upstream from the district office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,086 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +73.00 m.(M.S.L.), datum of 1962

Bench Mark: B.M. - R.I.D. No.1

Location: On right bank near gage site.

Elevation: +90.517 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: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.

Rated by Float: -

Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurement during 1962. No state diversions above gage site.

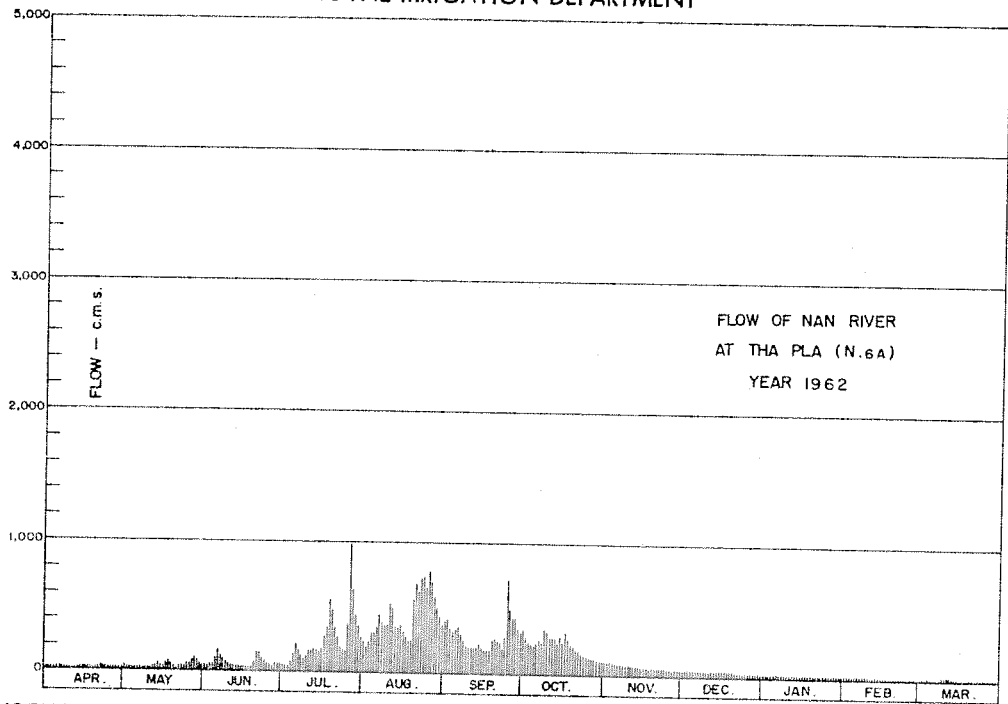
Remarks: Gage height record for Apr.1 - 20, based on correlation with station at Tha - It (N.2A)

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.68	75.12	75.11	75.19	77.06	78.10	77.76	75.84	75.22	74.88	74.71	74.63
2	.68	74.95	.14	.12	76.77	.13	.40	.80	.22	.87	.71	.64
3	.67	.82	.26	.17	77.11	77.79	.09	.82	.21	.86	.71	.65
4	.70	.84	.23	.45	.50	.59	76.92	.78	.20	.86	.70	.66
5	.70	.82	.72	76.06	.48	.72	.90	.73	.18	.85	.70	.64
6	74.69	74.80	76.17	76.60	77.83	77.81	77.00	75.69	75.17	74.85	74.70	74.62
7	.68	.81	75.83	.27	78.30	.51	.17	.66	.15	.84	.59	.62
8	.67	.78	.59	75.86	.07	.11	.73	.64	.14	.83	.69	.64
9	.66	.78	.45	.71	77.83	76.87	.74	.61	.13	.82	.69	.70
10	.65	.79	.24	.89	.94	.72	.59	.57	.12	.81	.68	.76
11	74.64	74.79	75.14	76.20	78.71	76.73	77.34	75.54	75.12	74.81	74.67	74.77
12	.66	75.13	.12	.20	.55	.82	.34	.51	.11	.81	.66	.72
13	.68	.12	.09	.28	77.90	.75	.28	.48	.10	.80	.66	.67
14	.70	.35	.07	.22	.73	.94	.07	.46	.10	.79	.66	.64
15	.72	.23	.04	.17	.89	.76	.30	.44	.09	.79	.65	.61
16	74.86	75.09	75.04	76.32	77.62	76.55	77.08	75.42	75.08	74.78	74.65	74.60
17	.91	.50	74.99	77.06	.33	.56	.66	.40	.06	.77	.65	.58
18	.80	.61	.95	.44	.09	.66	.24	.38	.04	.80	.65	.58
19	.77	.38	.97	78.73	.17	77.18	76.92	.37	.03	.80	.65	.58
20	.78	.13	75.52	.26	78.87	.23	.77	.35	.02	.79	.64	.57
21	74.81	74.99	76.03	77.73	79.41	77.15	76.75	75.33	75.00	75.78	74.64	74.56
22	75.10	75.10	.04	.20	.14	.02	.58	.32	74.98	.78	.63	.56
23	74.96	.09	75.72	76.76	.53	76.73	.43	.30	.97	.77	.63	.56
24	.86	.06	.49	.51	.63	77.37	.31	.29	.96	.76	.62	.57
25	.77	.30	.35	.45	.32	79.55	.22	.27	.95	.75	.62	.58
26	74.76	75.32	75.23	77.89	79.73	78.60	76.14	75.27	74.94	74.75	74.62	74.60
27	.74	.69	.14	80.46	.42	.20	.07	.25	.93	.74	.61	.60
28	.70	.86	.34	79.17	78.94	.20	.00	.24	.92	.73	.61	.58
29	.76	.64	.29	78.26	.60	77.74	75.95	.23	.91	.73		.58
30	.82	.43	.27	77.81	.26	.55	.90	.22	.90	.72		.57
31		.26		.39	77.89		.87		.89	.72		.56
Mean	74.75	75.15	75.35	76.83	78.21	77.49	76.89	75.47	75.06	74.79	74.66	74.62
Max.	75.10	75.86	76.17	80.46	79.73	79.55	77.76	75.84	75.22	74.88	74.71	74.77
Min.	74.64	74.78	74.95	75.12	76.77	76.55	75.87	75.22	74.89	74.72	74.61	74.56

WATER YEAR 1962 : Max. 80.46 m. Min. 74.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	47	54	66	250	414	355	110	55	33	23	18
2	21	37	57	55	210	420	299	106	55	32	23	18
3	20	29	67	59	257	359	255	108	54	32	23	19
4	22	30	65	86	314	327	231	104	53	32	22	20
5	22	29	115	154	311	348	228	100	52	31	22	18
6	21	28	167	222	366	363	242	96	51	31	22	17
7	21	29	127	179	452	315	266	93	49	30	21	17
8	20	27	101	131	408	257	250	92	49	30	21	17
9	20	27	86	114	366	224	351	89	48	29	21	17
10	19	29	66	134	385	204	327	85	47	29	21	17
11	18	27	57	171	536	205	290	83	47	29	20	17
12	20	48	55	171	502	217	290	80	47	29	20	17
13	21	47	52	181	378	207	281	77	46	28	20	17
14	22	65	50	173	350	234	252	75	46	27	20	18
15	23	55	48	167	376	209	296	74	45	27	19	17
16	32	45	48	185	332	184	253	72	45	27	19	16
17	35	79	43	286	288	186	339	70	44	26	19	15
18	28	89	40	343	255	197	276	68	42	27	19	15
19	26	68	42	575	266	267	231	67	42	28	19	15
20	27	48	93	484	571	274	210	65	41	27	18	15
21	29	39	151	350	699	263	207	64	40	27	18	14
22	46	46	152	270	632	245	188	63	39	27	18	14
23	38	45	115	209	730	205	171	61	38	26	18	14
24	32	44	90	180	756	294	158	60	38	26	17	15
25	26	61	76	173	675	735	148	59	37	25	17	15
26	26	63	65	376	782	513	140	59	36	25	17	16
27	24	96	57	996	701	433	133	57	36	24	17	16
28	22	112	75	639	587	433	126	56	35	24	17	16
29	26	92	70	450	513	351	121	55	35	24	17	15
30	29	73	68	363	444	321	116	55	34	23	15	15
31	58	58	297	297	376	376	113	55	33	23	15	14
Total	757	1,610	2,352	8,234	14,068	9,204	7,143	2,303	1,359	858	551	536
Mean	25.2	51.9	78.4	266	454	307	230	76.8	43.8	27.7	19.7	17.3
Max.	46	112	167	996	782	735	355	110	55	33	23	26
Min.	18	27	40	55	210	184	113	55	33	23	17	14
Runoff - BCM	65.405	139.104	203.213	711.418	1,215.475	795.226	617.155	198.979	117.418	74.131	47.606	46.310

WATER YEAR 1962 : Max. 996 Min. 14 Mean 134 Annual Runoff 4,213.440 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 27	07.00	80.68	1,066				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat $16^{\circ} - 26' - 31''$ N, long $100^{\circ} - 21' - 11''$ E, on right bank in front of Phichit Phittaya School, Amphoe Muang, Phichit.

Drainage Area: 28,191 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +26.20 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.4

Location: On right bank 78 meters downstream from gage site.

Elevation: +37.273 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 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Flow was observed to overtop the right bank at elevation of +36.15 m.(M.S.L.) but not included for flow computation.

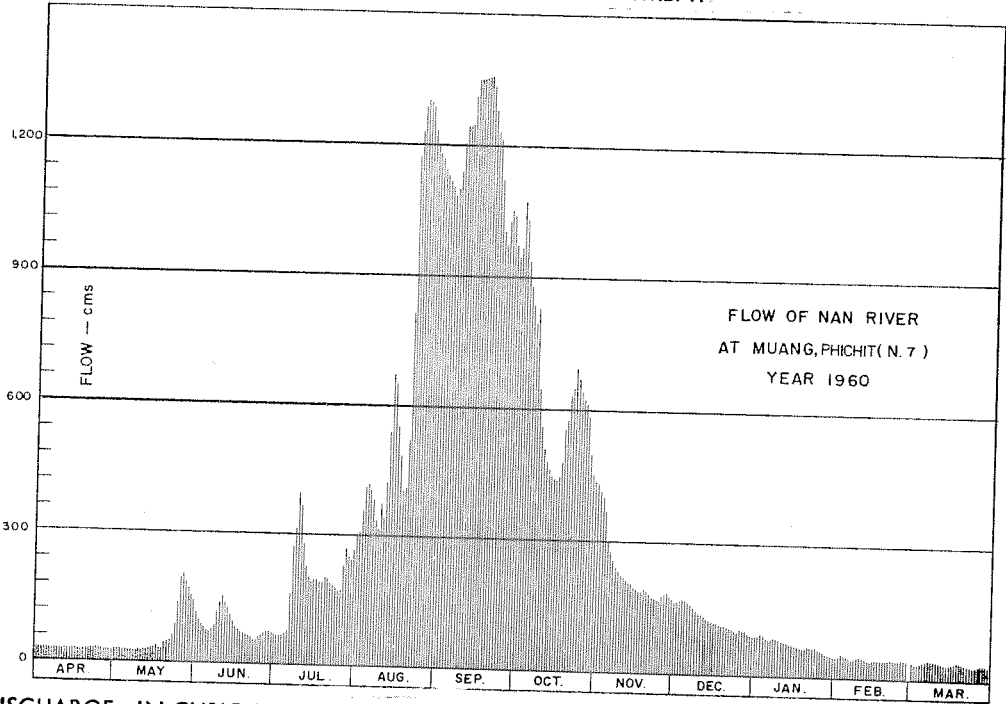
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67. No state diversion above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.49	26.47	28.00	27.29	30.22	35.43	34.60	31.33	28.70	27.60	26.86	26.67
2	.50	.49	27.78	.25	.30	.38	35.10	.20	.66	.63	.93	.63
3	.48	.50	.60	.22	.77	.32	34.90	.10	.68	.70	27.00	.60
4	.47	.46	.47	.24	31.40	.25	.43	30.82	.77	.66	26.97	.64
5	.47	.42	.34	.32	.23	.18	.14	.25	.85	.58	26.93	.67
6	26.45	26.40	27.32	27.49	31.14	35.23	33.92	29.96	28.82	27.50	26.88	26.74
7	.46	.42	.41	28.67	30.95	.41	.70	.75	.70	.53	.80	.78
8	.46	.45	.56	30.05	.54	.71	.87	.59	.60	.57	.84	.80
9	.45	.43	28.01	.36	.37	.91	32.80	.53	.58	.56	.87	.77
10	.46	.44	.36	31.05	.88	.89	.24	.40	.48	.51	.88	.74
11	26.44	26.46	28.55	30.80	30.60	35.93	31.90	29.37	28.45	27.46	26.83	26.68
12	.42	.49	.35	.01	31.26	36.24	.70	.28	.38	.43	.78	.63
13	.45	.50	.17	29.45	32.10	.44	.58	.20	.30	.40	.73	.58
14	.47	.53	27.97	.15	.97	.44	.45	.17	.23	.36	.70	.55
15	.46	.58	.75	.00	.85	.44	.40	.08	.17	.34	.74	.59
16	26.43	26.62	27.55	29.07	32.20	36.47	31.38	29.03	28.10	27.29	26.78	26.64
17	.42	.68	.44	.07	31.74	.47	.45	28.98	.05	.25	.80	.66
18	.43	.57	.35	.03	.12	.47	.70	.94	27.99	.22	.76	.70
19	.44	.57	.29	.05	.20	.36	32.20	29.05	.94	.20	.73	.68
20	.45	.86	.23	.16	32.00	.10	.35	28.97	.93	.22	.71	.63
21	26.48	26.92	27.20	29.16	33.80	35.85	32.70	28.90	27.91	27.27	26.77	26.58
22	.50	.98	.13	28.98	35.55	.75	33.04	.83	.88	.29	.80	.53
23	.52	27.16	.07	.93	.84	.34	.10	.77	.82	.20	.76	.48
24	.55	.62	.03	.88	36.12	34.77	32.95	.73	.78	.25	.73	.45
25	.52	28.33	.17	.78	.20	.65	.79	.74	.77	.17	.73	.48
26	26.48	29.07	27.23	28.79	36.18	34.89	32.66	28.85	27.85	27.11	26.78	26.52
27	.46	.20	.33	29.48	.12	35.00	.59	.92	.82	.07	.80	.57
28	.44	28.98	.35	.90	35.85	34.95	.40	.95	.78	.00	.75	.60
29	.43	.80	.36	.72	.70	.70	31.83	.86	.71	26.97	.56	.56
30	.45	.60	.32	.65	.60	.50	.55	.77	.69	.93	.53	.53
31		.44		.87	.55		.37		.63	.91	.50	.50
Mean	26.46	27.11	27.56	29.03	32.85	35.61	32.70	29.41	28.19	27.33	26.81	26.62
Max.	26.55	29.20	28.55	31.05	36.20	36.47	35.10	31.33	28.85	27.70	27.00	26.80
Min.	26.42	26.40	27.03	27.22	30.22	34.50	31.37	28.73	27.63	26.91	26.70	26.45

WATER YEAR 1960 : Max. 36.47 m. Min. 26.40 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	24	23	113	64	318	1,070	904	448	168	84	40	31
2	24	24	97	62	326	1,059	1,000	432	165	86	44	29
3	23	24	84	60	380	1,045	960	420	166	91	47	28
4	23	22	76	61	456	1,030	874	386	174	88	46	30
5	23	21	68	70	436	1,016	828	321	180	83	44	31
6	22	20	66	77	425	1,026	795	289	178	78	41	34
7	22	21	72	166	402	1,065	762	267	168	80	37	36
8	22	22	82	299	354	1,137	787	251	160	82	39	37
9	22	21	114	333	334	1,189	637	245	158	82	40	35
10	22	22	141	414	336	1,183	562	232	150	79	41	34
11	22	22	156	384	361	1,194	518	229	148	75	38	31
12	21	24	140	295	439	1,288	492	220	142	73	36	29
13	22	24	126	237	544	1,356	478	212	136	71	33	27
14	23	25	191	207	660	1,356	462	209	130	69	32	26
15	22	27	172	194	644	1,356	456	201	122	68	34	28
16	21	29	81	200	557	1,367	454	197	120	64	36	30
17	21	31	74	200	497	1,367	462	192	117	62	37	30
18	21	27	68	197	422	1,367	492	189	112	60	35	32
19	22	27	64	198	432	1,328	557	198	108	59	33	31
20	22	40	61	208	531	1,243	576	191	108	60	32	29
21	23	43	59	208	777	1,173	623	185	106	63	35	27
22	24	46	55	192	1,097	1,147	669	179	104	64	37	25
23	25	57	51	188	1,170	1,050	677	174	99	59	35	23
24	26	86	49	183	1,249	935	657	170	97	62	33	22
25	25	138	57	174	1,274	913	636	171	96	57	33	23
26	23	200	61	175	1,268	958	618	180	102	54	36	25
27	22	212	67	240	1,249	980	607	187	99	51	37	27
28	22	192	68	282	1,173	970	583	189	97	47	34	28
29	21	176	69	264	1,134	922	509	181	92	46	44	26
30	22	160	66	257	1,109	886	474	174	90	44	25	25
31	147	147	279	279	1,097	452	452	86	42	42	24	24
Total	677	1,953	2,648	6,368	21,451	33,976	19,561	7,119	3,978	2,083	1,045	893
Mean	22.6	63.0	88.3	205	692	1,132	631	237	128	67.2	37.3	28.8
Max.	26	212	191	414	1,274	1,367	1,000	448	180	91	47	37
Min.	21	20	49	60	318	886	452	170	86	42	32	22
Runoff - mcm.	58.493	168.739	228.762	550.195	1,853.366	2,935.526	1,690.070	615.082	343.699	180.144	90.288	77.155

WATER YEAR 1960 : Max. 1,367 Min. 20 Mean 279 Annual Runoff 8,791.373 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 15	18.00	36.47	1,367				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat 16° - 26' - 31" N, Long 100° - 21' - 11" E, on right bank in front of Phichit Phittaya School, Amphoe Muang, Phichit

Drainage Area: 28,191 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +26.20 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.4

Location: On right bank 78 meters downstream from gage site.
Elevation: +37.273 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 to date.
Rated by Float: -
Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank flow Conditions: Flow was observed to overtop the right bank at elevation of +36.15 m.(M.S.L.) but not included for flow computation.

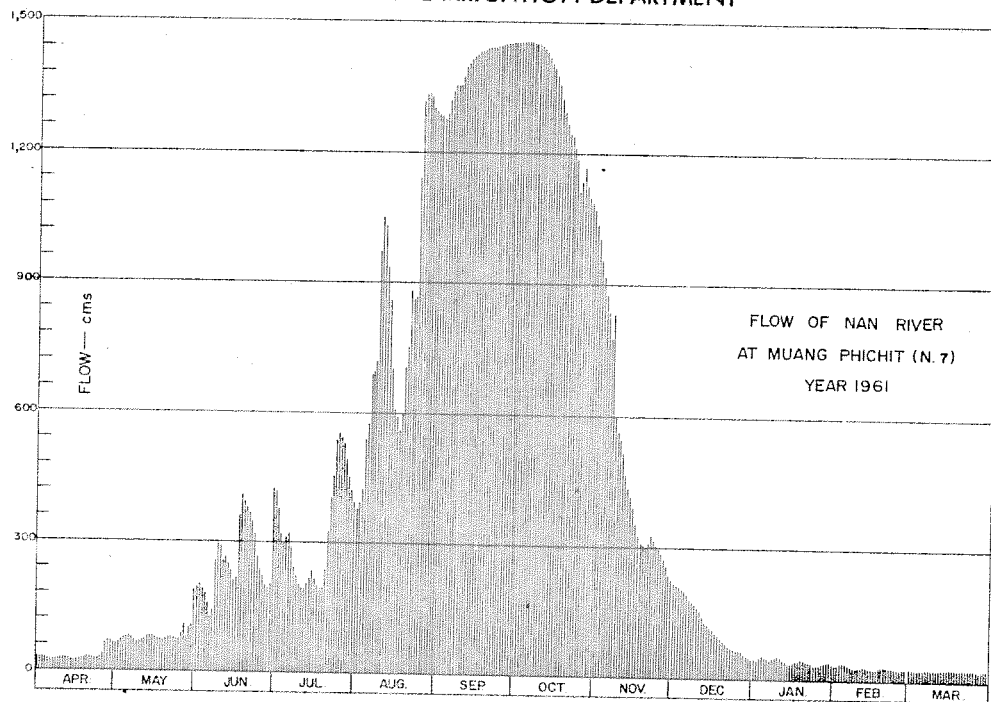
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67. No state diversion above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.54	27.20	29.13	31.25	30.90	36.11	36.96	34.78	29.33	26.89	26.65	26.50
2	.57	.26	.20	30.90	31.04	.07	.97	.55	.30	.85	.67	.46
3	.57	.37	.07	.41	.28	.13	.97	.35	.27	.97	.73	.41
4	.53	.43	28.93	.20	32.10	.28	.97	.13	.20	27.05	.77	.40
5	.48	.47	.66	.33	.36	.41	.97	33.92	.15	26.98	.73	.42
6	26.43	27.50	28.17	30.40	33.08	36.47	36.95	33.59	29.02	26.93	26.66	26.47
7	.40	.45	.42	.10	.12	.47	.95	.89	28.91	.85	.58	.50
8	.45	.33	29.80	29.65	.25	.48	.94	32.50	.83	.93	.53	.48
9	.48	.27	30.20	.43	34.62	.54	.92	.25	.77	.99	.50	.43
10	.52	.28	.15	.17	35.00	.68	.89	.15	.67	27.02	.53	.39
11	26.55	27.35	29.78	29.06	34.90	36.72	36.85	31.93	28.58	26.98	26.57	26.42
12	.53	.43	.90	.05	.44	.77	.79	.60	.35	.87	.60	.46
13	.48	.47	.73	.24	.04	.80	.73	.35	.20	.78	.56	.48
14	.44	.53	.55	.38	33.16	.82	.67	.20	.11	.65	.51	.46
15	.40	.52	.28	.54	32.90	.85	.58	.00	.03	.70	.48	.47
16	26.43	27.49	29.36	29.35	32.45	36.87	36.48	30.70	27.94	26.74	26.44	26.48
17	.46	.43	30.79	.17	.25	.87	.33	.45	.82	.82	.46	.46
18	.51	.39	31.20	.08	.50	.89	.16	.30	.77	.87	.53	.43
19	.56	.35	.05	.11	33.17	.91	.03	.27	.65	.90	.57	.40
20	.58	.39	30.93	.61	.44	.91	35.90	.20	.56	.86	.60	.42
21	26.60	27.47	30.85	30.46	33.57	36.91	35.90	30.30	27.47	26.81	26.58	26.47
22	.58	.52	.66	31.15	.50	.91	.76	.45	.37	.76	.53	.50
23	.53	.47	.40	.38	.53	.93	.63	.34	.30	.71	.50	.46
24	.53	.38	29.89	32.09	35.42	.94	.30	.23	.28	.63	.48	.43
25	.60	.37	.58	.20	36.27	.94	.40	.17	.23	.60	.43	.40
26	26.74	27.53	29.41	32.13	36.37	36.94	35.55	30.07	27.20	26.62	26.40	26.38
27	27.23	.91	.17	.04	.39	.95	.35	29.95	.17	.67	.44	.35
28	.33	.50	.10	31.80	.33	.96	.23	.75	.07	.75	.47	.37
29	.32	.85	.54	.50	.20	.96	.19	.55	.00	.80	.43	.43
30	.23	.95	31.28	.26	.16	.96	.11	.43	26.96	.76	.47	.47
31		29.03	.05	.12			34.95		.90	.71	.50	.50
Mean	26.62	27.51	29.77	30.37	33.87	36.71	36.24	31.51	28.04	26.82	26.55	26.44
Max.	27.33	29.03	31.28	32.20	36.39	36.96	35.97	34.78	29.33	27.05	26.77	26.50
Min.	26.40	27.20	28.17	29.05	30.90	36.07	34.95	29.43	26.90	26.60	26.40	26.35

WATER YEAR 1961 : Max. 36.97 m. Min. 26.35 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	59	206	438	396	1,246	1,559	937	225	41	30	24
2	27	63	212	396	413	1,234	1,563	895	222	39	31	22
3	27	69	200	339	442	1,252	1,563	861	219	46	33	20
4	25	73	188	315	544	1,301	1,563	826	212	50	35	20
5	23	76	165	330	578	1,346	1,563	795	207	46	33	21
6	21	78	126	330	675	1,367	1,555	746	196	44	30	23
7	20	75	146	304	680	1,367	1,555	649	186	39	27	24
8	22	67	272	257	698	1,371	1,551	596	179	44	25	23
9	23	63	315	235	908	1,392	1,542	563	174	47	24	21
10	25	64	310	209	980	1,445	1,530	550	166	49	25	20
11	26	68	270	199	960	1,461	1,513	552	158	46	27	21
12	25	73	282	198	876	1,481	1,489	480	140	40	28	22
13	23	76	265	216	813	1,493	1,465	450	128	36	26	23
14	22	80	247	230	686	1,501	1,441	432	121	30	24	22
15	20	79	220	246	650	1,513	1,407	408	115	32	23	23
16	21	77	228	227	590	1,522	1,371	372	108	34	22	23
17	22	73	383	209	563	1,522	1,318	344	99	38	22	22
18	24	71	432	201	596	1,530	1,262	326	96	40	25	21
19	26	68	414	204	687	1,538	1,223	323	88	42	27	20
20	27	71	400	253	725	1,538	1,186	315	82	40	28	21
21	28	76	390	345	743	1,538	1,186	326	76	37	27	23
22	27	79	368	426	733	1,538	1,150	344	69	35	25	24
23	25	76	338	454	737	1,547	1,116	331	65	32	24	22
24	25	70	281	543	1,067	1,551	1,041	319	64	29	23	21
25	28	69	250	557	1,298	1,551	1,063	312	61	28	21	20
26	34	80	233	548	1,332	1,551	1,097	302	59	29	20	19
27	61	106	209	536	1,339	1,555	1,052	288	57	31	22	18
28	67	152	203	505	1,318	1,559	1,026	267	51	34	23	19
29	66	180	246	468	1,274	1,559	1,018	247	47	37	21	21
30	61	189	442	439	1,262	1,559	1,002	235	45	35	23	23
31		197		414	1,249		970		42	32		24
Total	897	2,697	8,241	10,579	25,812	43,928	40,940	14,360	3,757	1,182	730	670
Mean	29.9	87.0	275	341	833	1,464	1,321	479	121	38.1	26.1	21.6
Max.	67	197	442	557	1,339	1,559	1,563	937	225	50	35	24
Min.	20	59	126	198	396	1,234	970	235	42	28	20	18
Runoff - mcm.	77.501	233.021	712.022	914.026	2,230.157	3,795.379	3,537.216	1,240.704	324.605	102.125	63.072	57.888

WATER YEAR 1961 : Max. 1,563 Min. 18 Mean 421 Annual Runoff 13,287.715 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	06.00	36.97	1563				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat 16° - 26' - 31" N, Long 100° - 21' - 11" E, on right bank in front of Phichit Phittaya School, Amphoe Muang, Phichit.

Drainage Area: 28,191 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +26.20 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.4

Location: On right bank 78 meters downstream from gage site.
Elevation: +37.273 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 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Flow was observed to overtop the right bank at elevation of +36.15 m.(M.S.L.) but not included for flow computation.

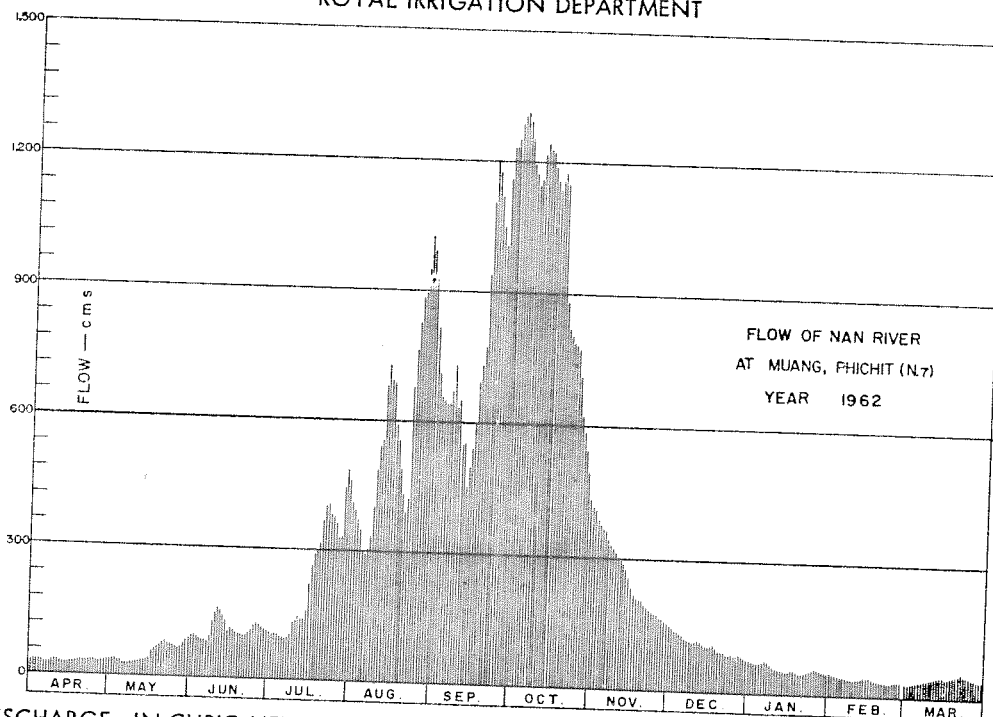
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965 - 67. No state diversion above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.53	26.67	27.75	27.88	31.17	33.80	36.12	31.20	28.48	27.35	26.98	26.53
2	.55	.70	.75	.80	.03	.20	.22	.15	.37	.33	.91	.50
3	.57	.68	.67	.84	30.84	32.88	.25	30.97	.30	.28	.87	.52
4	.57	.63	.61	.83	.65	.83	.15	.88	.28	.25	.83	.57
5	.53	.58	.55	.76	.17	.78	35.95	.80	.20	.27	.80	.59
6	26.46	26.50	27.53	27.73	30.15	32.77	35.67	30.77	28.17	27.32	26.78	26.62
7	.43	.48	.52	.68	.27	.91	.57	.57	.07	.35	.73	.65
8	.44	.47	.65	.72	.52	33.31	.45	.48	.00	.33	.70	.67
9	.57	.52	28.20	.95	31.10	.33	.51	.40	27.98	.23	.68	.72
10	.59	.57	.50	28.22	.75	32.84	.77	.33	.95	.13	.65	.77
11	26.56	26.58	28.65	28.31	32.11	32.16	35.90	30.23	27.97	27.08	26.67	26.80
12	.51	.59	.57	.45	.22	.20	.84	.17	28.00	.05	.70	.82
13	.46	.61	.40	.33	33.01	31.50	.80	.07	27.97	.03	.77	.86
14	.45	.67	.20	.33	.30	.83	.65	29.96	.88	26.98	.79	.88
15	.47	.69	27.87	.60	.10	32.10	.48	.75	.83	.95	.80	.85
16	26.49	26.75	27.98	29.33	33.07	32.50	35.40	29.51	27.80	26.97	26.78	26.80
17	.50	27.07	.92	.85	32.45	33.10	.49	.33	.83	27.04	.73	.84
18	.52	.17	.85	30.12	.22	.33	.58	.23	.87	.03	.66	.86
19	.57	.24	.83	.17	31.80	.56	.46	.20	.78	26.98	.61	.90
20	.60	.35	.79	.35	.33	34.46	34.15	.17	.67	.93	.59	.92
21	26.58	27.42	27.75	30.80	31.00	35.26	33.81	29.08	27.65	26.90	26.57	26.97
22	.56	.50	.78	31.10	.22	.70	.75	28.99	.63	.92	.54	27.05
23	.61	.42	.84	.13	33.00	.58	.65	.93	.57	.97	.50	26.97
24	.65	.37	.95	30.96	.50	.33	.63	.88	.55	27.02	.52	.94
25	.63	.33	28.11	.89	.87	.00	.57	.83	.59	.07	.57	.88
26	26.56	27.28	28.18	30.75	34.16	34.70	33.20	28.79	27.50	27.10	26.59	26.82
27	.55	.23	.10	.49	.22	35.50	32.65	.70	.54	.08	.60	.78
28	.58	.28	.03	.48	.50	.85	.40	.68	.58	.03	.58	.73
29	.62	.44	27.97	31.40	.87	.86	.11	.60	.48	.00		.70
30	.65	.53	.91	.73	.73	.96	31.80	.55	.43	26.98		.68
31		.58		.57	.40		.35		.40	.95		.63
Mean	26.54	26.96	27.75	29.40	32.31	33.74	34.69	29.74	27.85	27.09	26.70	26.77
Max.	26.65	27.58	28.18	31.73	34.87	35.96	36.25	31.20	28.48	27.35	26.98	27.05
Min.	26.43	26.47	27.52	27.68	30.15	31.50	31.35	28.55	27.40	26.90	26.50	26.50

WATER YEAR 1962 : Max. 36.25 m. Min. 26.43 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	31	94	104	428	777	1,249	432	150	68	46	25
2	26	32	94	98	412	691	1,281	426	142	67	42	24
3	27	31	89	101	389	648	1,291	404	136	64	40	25
4	27	29	85	100	367	641	1,258	394	134	62	38	27
5	25	27	81	95	312	634	1,200	384	128	63	37	28
6	22	24	80	93	310	633	1,126	380	126	66	36	29
7	22	23	79	90	323	652	1,087	357	118	68	33	30
8	22	23	88	92	352	706	1,074	347	113	67	32	31
9	27	25	128	109	420	709	1,087	338	111	61	31	33
10	28	27	152	130	498	642	1,152	330	109	55	30	35
11	26	27	164	137	545	552	1,186	319	111	52	31	37
12	24	28	158	148	560	557	1,170	312	113	50	32	38
13	22	23	144	138	665	468	1,160	301	111	49	35	40
14	22	31	128	138	705	509	1,120	289	104	46	36	41
15	23	32	103	160	677	544	1,081	267	100	45	37	39
16	24	34	111	225	673	596	1,063	243	98	46	36	37
17	24	51	107	277	590	677	1,083	225	100	50	33	39
18	25	57	102	307	560	709	1,104	215	103	49	30	40
19	27	61	100	312	505	741	1,076	212	97	46	28	42
20	28	68	97	332	448	879	829	209	89	44	28	43
21	27	73	94	384	408	1,033	778	201	88	42	27	46
22	26	78	97	420	434	1,134	769	193	86	43	26	50
23	29	73	101	424	664	1,104	754	188	82	46	24	46
24	30	69	109	403	733	1,048	751	183	81	49	25	44
25	29	67	121	395	787	980	743	179	80	51	27	41
26	26	64	126	378	831	922	691	175	78	53	28	38
27	26	61	120	348	840	1,085	617	168	81	52	28	36
28	27	64	115	347	886	1,173	583	166	83	49	27	33
29	29	74	111	456	954	1,176	545	160	77	47	24	32
30	30	80	106	496	928	1,203	505	156	73	46	24	31
31	83		476	869		450		71	45		29	
Total	775	1,470	3,284	7,713	18,073	23,823	29,864	8,153	3,173	1,641	903	1,109
Mean	25.8	47.4	109	249	585	794	963	272	102	52.9	32.2	35.8
Max.	30	83	164	496	954	1,203	1,291	432	150	68	46	50
Min.	22	23	79	90	310	468	450	156	71	42	24	24
Runoff - mcm.	66.960	127.008	283.738	666.403	1,561.507	2,058.307	2,580.250	704.419	274.147	141.782	78.019	95.818

WATER YEAR 1962 : Max. 1,291 Min. 22 Mean 274 Annual Runof 8,638.358 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	18.00	36.25	1,291				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAN RIVER BASIN

Nan River at Bang Mun Nak, Phichit (N.8)

Location: Lat 16°- 01' - 50" N, Long 100°- 22' - 53" E, on left bank near Bang Mun Nak Market, Amphoe Bang Mun Nak, Phichit.

Drainage Area: 32,791 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +20.90 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Near the camp of gage observer.
Elevation: +29.266 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elevation +29.75 m.(M.S.L.) but not included for flow computation.

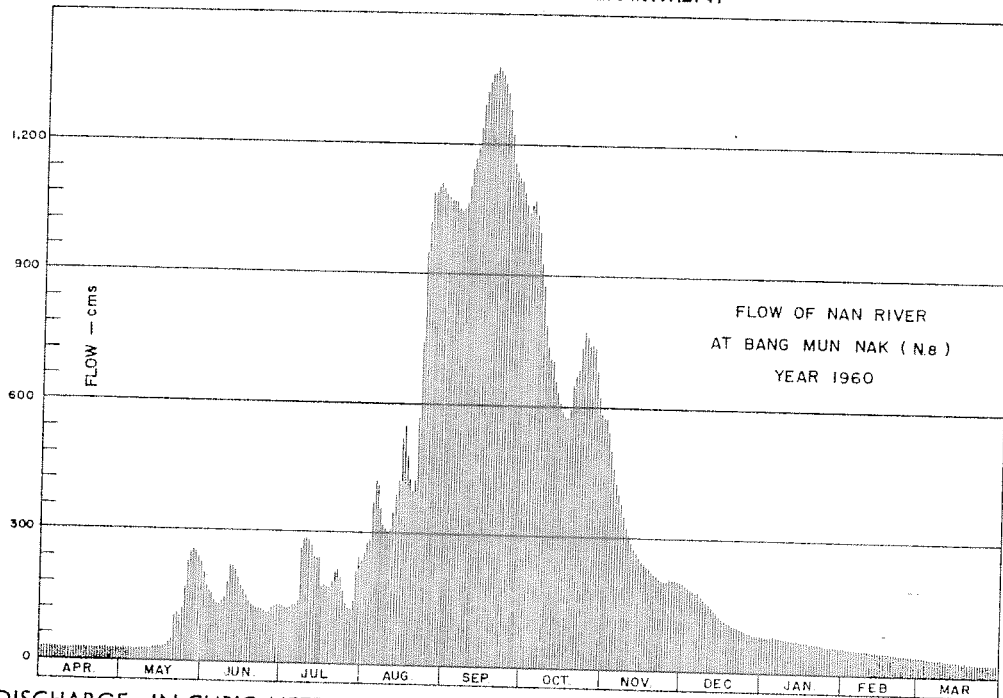
General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.92	20.95	23.50	22.66	24.04	29.11	29.02	26.52	23.47	22.01	21.61	21.29
2	.92	.95	.20	.63	.26	.11	.09	.32	.42	.00	.59	.27
3	.92	.95	.05	.59	.33	.11	.12	.05	.37	.00	.58	.26
4	.92	.95	22.98	.63	.94	.04	.01	25.74	.32	.00	.57	.24
5	.92	.95	.80	.70	25.45	.03	28.77	.48	.27	21.99	.56	.23
6	20.92	20.96	22.70	22.71	25.37	29.06	28.53	25.31	23.22	21.98	21.55	21.21
7	.91	.96	.70	.86	24.95	.10	.30	.13	.25	.87	.54	.20
8	.91	.97	.80	24.09	.63	.23	27.81	24.90	.11	.96	.53	.19
9	.91	.98	.90	.26	.49	.35	.53	.68	.64	.94	.52	.18
10	.91	.99	23.30	.29	.48	.42	.36	.51	22.97	.92	.51	.15
11	20.92	20.99	23.70	24.27	24.62	29.48	27.21	24.36	22.90	21.91	21.50	21.14
12	.92	21.02	.70	.16	.88	.60	.06	.24	.83	.89	.49	.12
13	.92	.04	.58	23.94	25.21	.72	26.91	.14	.76	.88	.48	.11
14	.92	.06	.40	.90	.47	.78	.74	.64	.69	.87	.47	.09
15	.92	.07	.20	.90	26.18	.83	.64	23.94	.60	.85	.46	.08
16	20.92	21.09	23.10	23.19	26.36	29.87	26.54	23.90	22.53	21.84	21.45	21.06
17	.92	.11	22.96	.19	25.90	.88	.53	.84	.47	.82	.44	.05
18	.92	.21	.78	.19	.52	.90	.70	.76	.42	.81	.43	.04
19	.92	.34	.70	.19	.28	.89	.95	.72	.38	.79	.42	.02
20	.93	.45	.65	.37	.50	.87	27.14	.67	.35	.78	.41	.01
21	20.92	22.30	22.59	23.58	26.48	29.83	27.29	23.52	22.31	21.77	21.40	21.00
22	.93	.40	.57	.64	27.57	.78	.52	.57	.27	.75	.39	.60
23	.94	.35	.56	.46	28.64	.70	.74	.52	.23	.75	.38	20.99
24	.94	.60	.50	.14	.95	.56	.68	.50	.20	.71	.36	.98
25	.94	23.36	.48	22.79	29.11	.40	.94	.53	.16	.69	.35	.97
26	20.94	23.80	22.48	22.63	29.18	29.33	27.56	23.57	22.13	21.67	21.33	20.96
27	.94	24.00	.62	.66	.23	.30	.51	.95	.89	.66	.32	.95
28	.95	.05	.69	.87	.25	.27	.21	.53	.66	.65	.30	.94
29	.95	.00	.70	23.60	.22	.19	26.84	.51	.04	.64	.36	.93
30	.95	23.90	.68	.94	.17	.09	.58	.50	.03	.63	.32	.92
31	.95	.75	.84	.84	.14	.53	.53	.02	.62	.62	.32	.91
Mean	20.92	21.85	22.92	23.29	26.38	29.45	22.51	24.52	22.64	22.85	21.46	21.08
Max.	20.95	24.05	23.70	24.29	29.25	29.90	29.12	26.52	23.47	22.01	21.61	21.29
Min.	20.91	20.95	22.48	22.59	24.04	29.03	26.53	23.30	22.02	21.62	21.30	20.91

WATER YEAR 1960 : Max. 29.90 m. Min. 20.91 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	27	204	131	258	1,069	1,044	575	201	84	59	42
2	26	27	176	129	283	1,069	1,065	545	196	83	57	41
3	26	27	164	126	290	1,069	1,072	505	192	83	57	41
4	26	27	158	129	360	1,049	1,041	462	187	83	56	40
5	26	27	142	134	422	1,046	981	426	183	82	56	39
6	26	27	134	135	412	1,055	926	405	178	82	55	38
7	25	27	134	140	361	1,066	877	383	181	81	55	38
8	25	28	142	264	323	1,104	787	355	169	80	54	37
9	25	28	151	283	308	1,144	737	329	163	79	54	37
10	25	29	185	286	307	1,170	708	310	157	77	53	35
11	26	29	224	284	322	1,192	684	294	151	77	53	35
12	26	30	224	272	353	1,240	660	280	145	75	52	34
13	26	31	212	248	393	1,291	636	269	139	75	52	33
14	26	31	194	244	425	1,319	608	258	134	74	51	33
15	26	32	176	244	524	1,342	593	248	126	73	51	32
16	26	33	168	176	551	1,362	578	244	121	72	50	31
17	26	33	156	176	484	1,366	576	238	116	71	50	31
18	26	38	141	176	431	1,376	602	230	112	71	49	31
19	26	45	134	176	401	1,371	642	226	110	69	49	30
20	26	50	130	192	428	1,362	672	221	107	69	48	29
21	26	104	126	212	569	1,342	696	216	105	68	48	29
22	26	111	124	218	744	1,319	735	211	102	67	47	29
23	27	107	123	209	951	1,282	774	206	99	66	47	29
24	27	126	118	171	1,025	1,224	763	204	97	65	46	28
25	27	191	117	142	1,069	1,162	739	207	94	63	45	28
26	27	254	117	129	1,069	1,137	742	211	92	62	44	27
27	27	254	128	131	1,104	1,126	734	209	89	62	44	27
28	27	259	134	148	1,110	1,117	684	207	87	61	43	27
29	27	254	134	214	1,101	1,092	584	205	86	60	43	26
30	27	244	133	248	1,086	1,063	576	204	85	60	42	26
31	27	229	238	1,078					84	59	25	25
Total	784	2,739	4,605	6,004	18,562	35,927	23,138	8,883	4,088	2,233	1,425	1,008
Mean	26.1	88.3	153	194	599	1,197	746	256	132	72	50.8	32.5
Max.	27	259	224	286	1,110	1,376	1,072	575	201	84	59	42
Min.	25	27	117	126	258	1,046	576	204	84	59	43	25
Runoff - mcm.	67.738	236.650	397.699	518.746	1,603	3,104.093	1,999.123	767.491	353.203	192.931	123.120	87.091

WATER YEAR 1960 : Max. 1,376 Min. 25 Mean 300 Annual Runoff 9,449.222 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 18	09.00	29.90	1,376				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Bang Mun Nak, Phichit (N.8)

Location: Lat 16°-01' - 50" N, Long 100°-22' - 53" E, on left bank near Bang Mun Nak Market, Amphoe Bang Mun Nak, Phichit.

Drainage Area: 32,791 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +20.90 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Near the camp of gage observer.

Elevation: +29.266 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elevation +29.75 m.(M.S.L.) but not included for flow computation.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

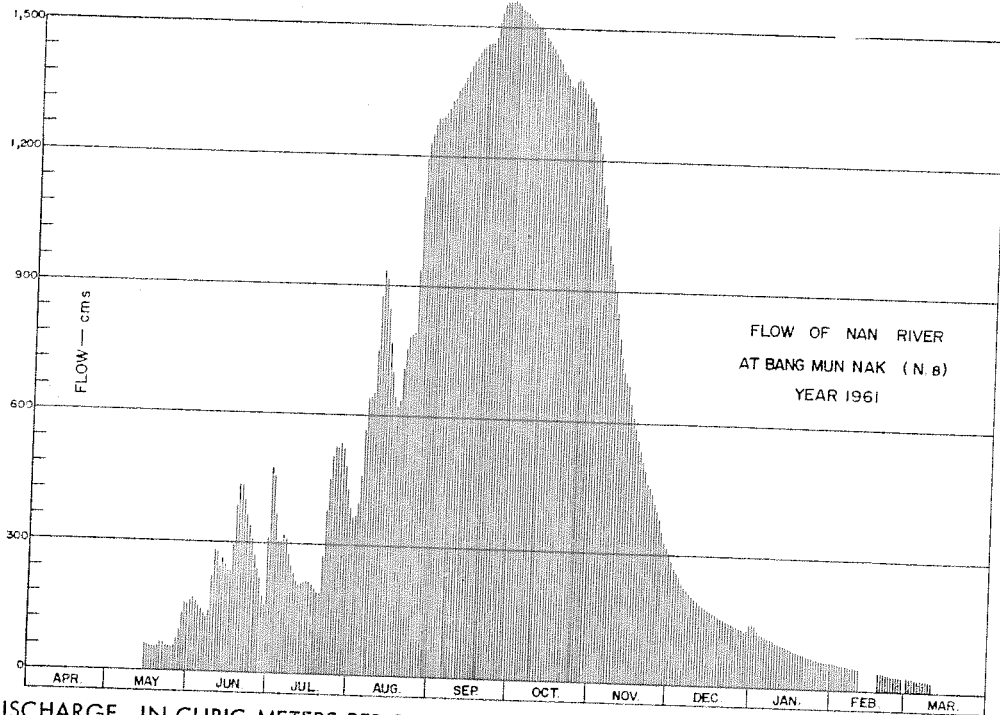
Remarks: No gage height record for Apr. 1 - May 14, Feb. 11 - 18, and Mar. 1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			23.10	25.84	24.97	29.73	30.22	29.34	24.28	22.87	21.69	21.11
2			.17	.70	25.01	.74	.21	.21	.14	.79	.67	.09
3			.03	.02	.26	.77	.19	.03	.04	.66	.65	.07
4			22.95	24.46	.73	.80	.18	28.88	23.92	.57	.63	.04
5			.83	.48	26.46	.83	.17	.69	.80	.52	.61	.01
6			22.69	24.63	26.95	29.85	30.16	28.51	23.68	22.48	21.59	20.99
7			.62	.50	.96	.87	.15	.36	.62	.45	.57	.97
8			.81	.22	27.02	.89	.13	.16	.54	.42	.55	.95
9			23.70	23.98	.61	.92	.11	27.84	.44	.37	.52	.93
10			24.26	.79	28.28	.94	.09	.58	.37	.32	.51	.91
11			24.24	23.61	28.56	29.97	30.07	27.38	23.31	22.28	21.49	
12			23.90	.55	.48	.99	.05	.28	.26	.25		
13			24.14	.58	.13	30.01	.03	.22	.22	.21		
14			23.98	.60	27.71	.03	.01	26.98	.17	.18		
15		21.70	.84	.63	.31	.05	29.99	.78	.10	.15		
16		21.67	23.86	23.62	26.97	30.06	29.96	26.61	23.07	22.12		
17		.62	24.38	.54	.82	.07	.94	.43	.05	.09		
18		.60	25.18	.44	.92	.07	.92	.26	.01	.05		
19		.57	.56	.36	27.24	.07	.89	.11	22.96	.02	21.32	
20		.64	.54	.35	.64	.10	.88	25.95	.91	21.99	.30	
21		21.76	25.26	24.16	27.80	30.17	29.90	25.78	22.89	21.95	21.28	
22		.74	24.98	25.12	.82	.21	.92	.67	.83	.92	.26	
23		.64	.78	.67	.86	.23	.91	.56	.82	.89	.24	
24		.63	.52	26.06	28.56	.26	.88	.41	.80	.86	.21	
25		.59	.16	.20	29.23	.26	.85	.26	.77	.83	.19	
26		21.67	23.88	26.20	29.49	30.26	29.83	25.11	22.75	21.81	21.17	
27		.93	.68	.26	.58	.27	.81	24.90	.72	.79	.15	
28		22.20	.24	.18	.63	.26	.78	.68	.70	.77	.13	
29		.72	22.97	25.86	.68	.25	.71	.57	.65	.75		
30		23.00	24.54	.52	.71	.23	.64	.46	.74	.73		
31		22.97		.16	.71		.54		.86	.71		
Mean			23.89	24.65	27.72	30.04	29.97	26.80	23.21	22.15		
Max.			25.56	26.26	29.71	30.27	30.22	29.34	24.28	22.87		
Min.			22.62	23.35	24.97	29.73	29.54	24.46	22.65	21.71		

WATER YEAR 1961 : Max. 30.27 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			168	476	364	1,296	1,536	1,140	285	148	63	33
2			174	456	369	1,300	1,531	1,098	269	142	62	33
3			162	370	399	1,314	1,521	1,046	258	131	61	32
4			155	305	460	1,328	1,516	1,007	246	124	60	31
5			145	307	566	1,342	1,511	963	234	120	59	29
6			134	323	642	1,352	1,506	921	222	117	57	29
7			128	309	644	1,362	1,501	889	216	115	56	28
8			143	278	653	1,371	1,491	850	208	112	55	27
9			224	252	751	1,386	1,481	792	198	109	54	26
10			283	233	873	1,396	1,471	746	192	105	53	25
11			280	215	933	1,411	1,461	712	186	103	52	25
12			244	209	915	1,421	1,451	695	182	100	52	25
13			269	212	845	1,431	1,441	685	178	98	52	25
14			252	214	769	1,441	1,431	647	174	96	52	25
15		64	238	217	700	1,451	1,421	615	168	93	52	25
16		62	240	216	645	1,456	1,406	588	165	91	52	25
17		59	296	208	621	1,461	1,396	561	164	89	52	25
18		58	389	198	637	1,461	1,386	536	160	86	52	25
19		56	437	191	688	1,461	1,371	513	156	84	52	25
20		60	434	190	756	1,476	1,366	491	152	82	52	25
21		68	399	272	785	1,511	1,376	467	150	79	52	25
22		66	365	382	789	1,531	1,386	452	145	77	52	25
23		60	341	452	796	1,541	1,381	437	144	75	52	25
24		60	311	506	933	1,556	1,366	417	142	74	52	25
25		57	272	527	1,104	1,556	1,352	399	140	72	52	25
26		62	242	527	1,196	1,556	1,342	381	138	71	52	25
27		78	222	536	1,232	1,561	1,333	355	136	69	52	25
28		97	180	524	1,253	1,556	1,319	329	134	68	52	25
29		136	157	478	1,274	1,551	1,287	317	130	67	52	25
30		159	313	431	1,287	1,541	1,257	305	138	66	52	25
31		157	387	387	1,287	1,541	1,216	305	148	65	52	25
Total			7,597	10,401	25,166	43,377	43,810	19,354	5,558	2,928		
Mean			253	335	812	1,446	1,413	645	179	94.4		
Max.			437	536	1,287	1,561	1,536	1,140	285	148		
Min.			128	190	364	1,296	1,216	305	130	65		
Runoff - mcm.			656.381	898.646	2,170.022	3,747.773	3,785.184	1,672.186	480.211	252.979		

WATER YEAR 1961 : Max. 1,561 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.27	06.00	30.27	1,561				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
NAN RIVER BASIN

Nan River at Bang Mun Nak, Phichit (N.8)

Location: Lat 16° - 01' - 50" N, Long 100° - 22' - 53" E, on left bank near Bang Mun Nak Market, Amphoe Bang Mun Nak, Phichit.

Drainage Area: 32,791 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +20.90 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Near the camp of gage observer.

Elevation: +29.266 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elevation +29.75 m.(M.S.L.) but not included for flow computation.

General Description: Gage height record good, discharge record fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

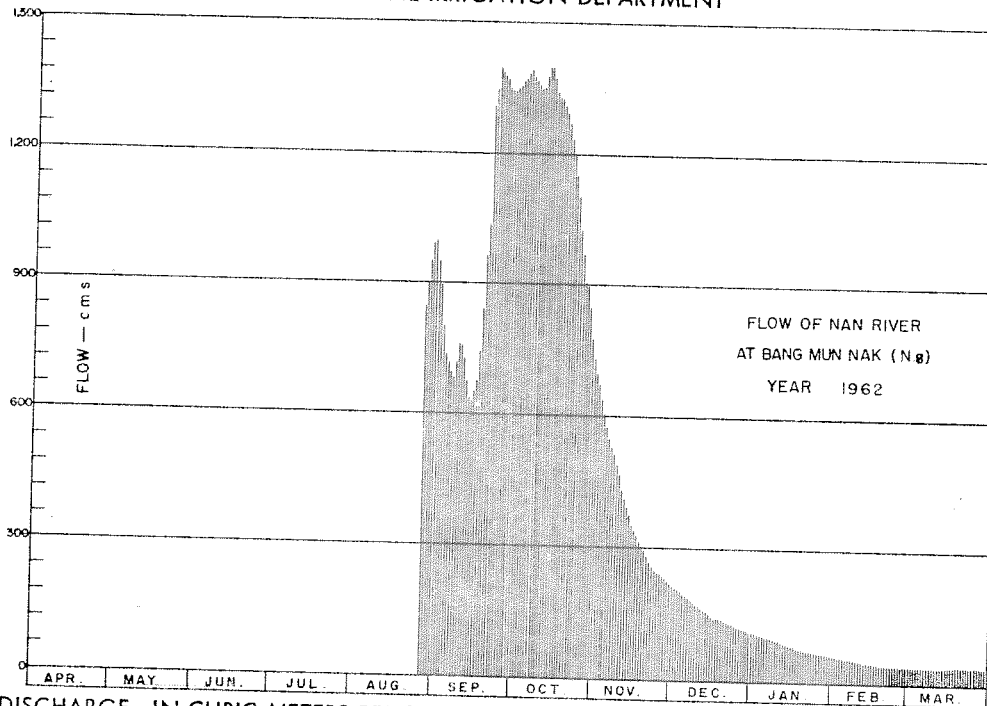
Remarks: No gage height record for Apr. 1 - Aug. 26.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
1						28.64	29.85	27.28	23.62	22.39	21.63	21.20	
2						.38	.88	.08	.57	.37	.61	.20	
3						27.88	.89	26.91	.52	.34	.59	.20	
4						.51	.91	.73	.47	.31	.57	.20	
5						.42	.93	.53	.42	.28	.55	.18	
6							27.28	29.90	26.36	23.37	22.26	21.53	21.18
7						.20	.88	.21	.32	.23	.51	.18	
8						.44	.86	.09	.27	.20	.49	.17	
9						.66	.84	25.93	.22	.17	.47	.17	
10						.67	.85	.73	.17	.14	.45	.16	
11							27.47	29.90	25.53	23.12	22.11	21.43	21.15
12						.17	.94	.36	.67	.68	.41	.15	
13						26.93	.94	.21	.02	.05	.39	.15	
14						.88	.89	.06	22.97	.62	.37	.16	
15						27.02	.82	24.91	.92	.00	.35	.17	
16							27.19	29.80	24.79	22.88	21.97	21.33	21.18
17						.60	.79	.69	.83	.94	.31	.19	
18						28.21	.75	.56	.80	.91	.29	.20	
19						.80	.72	.47	.77	.89	.27	.20	
20						29.04	.67	.36	.74	.87	.26	.20	
21							29.75	29.59	24.24	22.71	21.84	21.25	21.20
22						.84	.49	.14	.68	.83	.24	.20	
23						.94	.36	.04	.65	.81	.23	.20	
24						.92	.12	23.97	.62	.79	.22	.19	
25						.90	28.88	.92	.59	.77	.21	.19	
26							29.88	28.71	23.87	22.56	21.75	21.20	21.19
27						28.14	.84	.44	.82	.53	.72	.20	.19
28						.42	.83	.24	.77	.50	.71	.20	.19
29						.65	.83	.02	.72	.47	.69	.19	.19
30						.81	.84	27.75	.67	.44	.67	.19	.19
31						.85	.50	.50	.41	.65	.20	.19	.19
Mean						28.40	29.52	25.10	22.94	21.99	21.38	21.18	
Max.						29.94	29.94	27.28	23.62	22.39	21.63	21.20	
Min.						26.88	27.50	23.67	22.41	21.65	21.20	21.15	

WATER YEAR 1962 : Max. 29.94 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						951	1,352	695	216	110	60	38
2						895	1,366	663	211	109	59	38
3						799	1,371	636	206	107	57	38
4						734	1,381	607	201	105	56	38
5						718	1,391	576	196	103	55	37
6						695	1,376	551	192	101	54	37
7						682	1,366	528	187	99	53	37
8						722	1,357	511	183	97	52	36
9						760	1,347	488	178	95	51	36
10						762	1,352	460	174	93	50	36
11						727	1,376	452	170	91	49	35
12						677	1,396	411	165	89	48	35
13						639	1,396	393	161	86	47	35
14						631	1,371	375	157	84	46	36
15						653	1,338	357	153	83	45	36
16						680	1,328	342	149	81	44	37
17						749	1,323	330	145	79	43	37
18						860	1,310	316	142	77	42	38
19						988	1,291	306	140	75	41	38
20						1,049	1,269	294	138	74	41	38
21						1,310	1,236	280	135	72	40	38
22						1,347	1,196	269	133	72	40	38
23						1,396	1,148	258	130	71	39	38
24						1,386	1,072	251	128	69	39	37
25						1,376	1,007	246	126	68	38	37
26						1,366	967	241	123	67	38	37
27						847	1,347	236	121	65	38	37
28						901	1,342	231	118	65	38	37
29						953	1,342	226	116	63	37	37
30						990	1,347	221	114	62	37	37
31						1,000	732	221	112	61	37	37
Total						28,928	37,788	11,730	4,820	2,573	1,305	1,146
Mean						964	1,219	391	155	83	46.5	36.9
Max.						1,396	1,396	695	216	110	60	38
Min.						631	732	221	112	61	38	35
Runoff - mcm.						2,499.379	3,264.883	1,015.472	416.448	222.307	112.579	99.014

WATER YEAR 1962 : Max. 1,396 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 23	06.00	29.94	1,396				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAN RIVER BASIN

Nan River at Ban San, Nan (N.13)

Location: Lat 18° - 32' - 06" N, Long 100° - 46' - 06" E, on right bank in front of Wat Phranet, Tambon Ban San, Amphoe Sa, Nan.

Drainage Area: 8,993 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +176.36 m.(M.S.L.) datum of 1959. Prior to Nov. 18, 1963. Water - stage recorder at the same site at datum +176.65 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: Near the gage site.

Elevation: +186.63 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: 1959 to date.

Rating Operation:

Period of Rating: 1959 to date.

Rated by Float: -

Rated by Current Meter: 1959 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

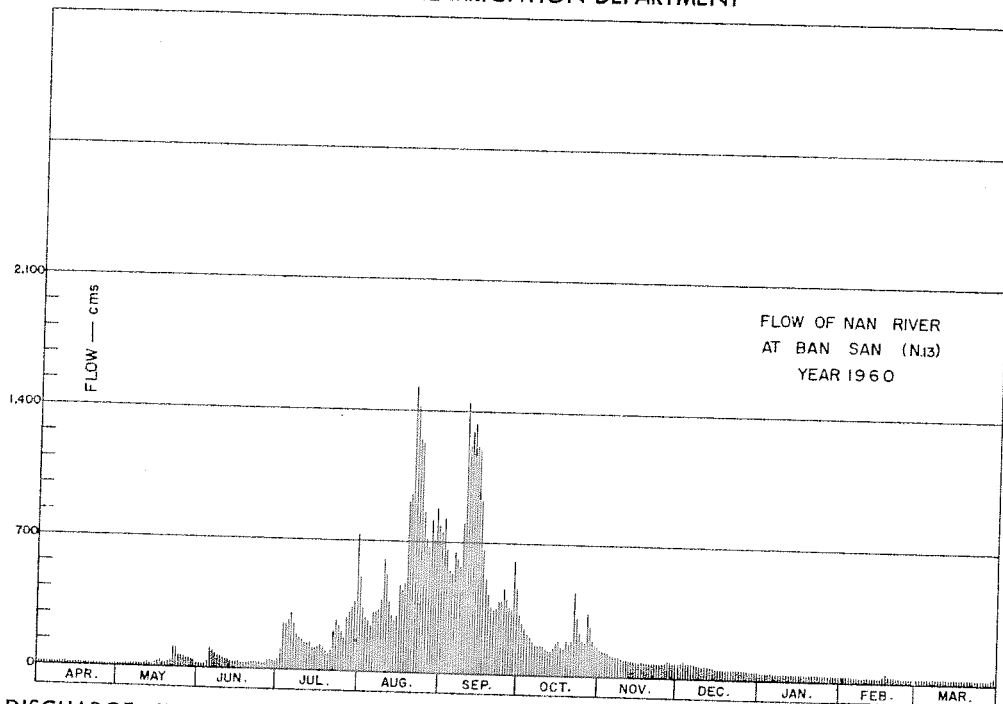
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	176.87	176.80	177.02	177.42	179.62	180.59	178.79	177.84	177.44	177.17	177.06	176.99
2	.87	.82	.03	.77	178.86	.87	.59	.79	.43	.16	.06	.99
3	.86	.82	.02	178.41	.57	.18	.39	.75	.49	.15	.05	.99
4	.86	.83	.22	.37	.47	179.73	.27	.71	.45	.15	.05	.98
5	.86	.86	.68	.57	.29	.69	.17	.69	.41	.14	.05	.98
6	176.86	176.87	177.55	178.75	178.74	180.27	178.08	177.66	177.40	177.14	177.04	176.98
7	.85	.90	.51	.35	.75	.13	.00	.63	.39	.13	.04	.98
8	.85	.89	.45	.08	.82	179.90	177.95	.62	.37	.13	.04	.97
9	.88	.88	.39	.01	179.05	180.75	.94	.59	.34	.13	.03	.99
10	.87	.86	.30	177.98	180.02	183.04	.92	.56	.32	.13	.03	177.00
11	176.87	176.91	177.24	177.89	179.71	182.27	177.84	177.54	177.31	177.13	177.03	176.99
12	.86	.99	.22	.85	.19	.60	.80	.52	.30	.12	.03	.98
13	.85	.91	.19	.92	178.76	.68	.79	.51	.29	.11	.03	.97
14	.86	.86	.16	.74	.61	.03	.88	.50	.28	.11	.02	.97
15	.85	.92	.20	.82	.69	.02	178.06	.46	.27	.11	.02	.96
16	176.87	177.08	177.19	177.83	179.48	181.27	178.11	177.47	177.27	177.11	177.02	176.96
17	.86	.12	.16	.84	.39	180.23	177.89	.45	.26	.10	.13	.96
18	.86	.01	.13	.78	.55	179.62	.87	.43	.25	.10	.19	.96
19	.85	176.91	.12	.62	181.34	.28	178.13	.42	.24	.09	.11	.95
20	.84	177.06	.14	.55	.67	178.96	.00	.42	.23	.09	.07	.95
21	176.83	177.15	177.22	177.68	183.40	178.85	178.11	177.41	177.23	177.09	177.05	176.95
22	.82	.72	.20	178.30	.12	.87	179.40	.40	.26	.09	.04	.95
23	.82	.66	.19	.62	182.44	179.13	178.72	.40	.26	.09	.02	.94
24	.81	.39	.14	.45	.17	.16	.25	.38	.25	.08	.01	.94
25	.81	.36	.12	.10	181.12	.51	.05	.37	.24	.08	.00	.93
26	176.83	177.30	177.14	177.98	180.51	179.13	178.03	177.45	177.23	177.07	177.00	176.93
27	.82	.28	.29	178.55	.34	178.97	.95	.54	.22	.07	176.99	.93
28	.81	.22	.32	.84	.92	.85	.46	.49	.21	.07	.99	.93
29	.80	.17	.26	.39	.47	180.07	.13	.46	.20	.07	.07	177.07
30	.81	.09	.20	.54	181.14	179.45	.00	.43	.19	.07	.15	.15
31		.05		180.47	180.75		177.91		.18	.06		.15
Mean	176.84	177.05	177.23	178.14	180.06	180.27	178.18	177.53	177.30	177.11	177.04	176.98
Max.	176.88	177.72	177.68	180.47	183.40	183.04	179.40	177.84	177.49	177.17	177.19	177.15
Min.	176.81	176.80	177.02	177.42	178.29	178.83	177.79	177.37	177.18	177.06	176.99	176.93

WATER YEAR 1960 : Max. 183.40 m. Min. 176.80 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	10	22	67	505	748	318	146	80	42	30	23
2	13	12	22	116	344	829	278	132	83	41	30	23
3	13	13	22	247	289	656	240	128	92	40	29	23
4	13	13	39	244	271	550	216	124	83	40	29	22
5	13	14	104	266	240	528	197	115	80	39	29	22
6	13	13	86	308	320	644	180	112	78	39	28	22
7	13	15	78	245	322	606	166	108	76	38	28	22
8	13	15	68	186	336	569	159	108	70	38	28	21
9	15	14	66	171	383	805	158	100	67	38	27	23
10	14	13	52	165	602	1,448	155	97	64	38	27	24
11	15	18	46	142	525	1,205	140	92	65	38	27	23
12	13	25	44	140	367	1,294	132	89	65	36	27	22
13	13	18	39	146	296	1,349	131	88	61	35	27	21
14	13	13	33	113	276	1,144	148	86	59	35	26	21
15	13	19	37	134	302	1,132	177	83	56	35	26	20
16	14	33	35	132	462	927	186	83	55	35	26	20
17	13	37	32	131	440	664	150	85	55	34	38	20
18	13	27	31	119	480	510	152	80	54	34	45	20
19	14	18	30	99	917	426	188	79	54	33	35	20
20	13	31	31	86	962	359	169	78	52	33	31	20
21	13	41	39	110	1,530	345	192	76	52	33	29	20
22	12	110	38	214	1,420	352	447	75	54	33	28	20
23	12	105	37	272	1,238	386	304	75	54	33	26	19
24	11	65	31	242	1,150	391	226	72	53	32	25	19
25	11	64	30	199	854	474	188	72	52	32	24	18
26	13	55	31	179	710	398	179	79	50	31	24	18
27	12	53	44	284	672	359	336	92	49	31	23	18
28	10	49	53	314	823	347	255	65	47	31	23	18
29	11	44	44	246	768	606	190	83	46	31	23	18
30	11	31	38	278	882	461	166	79	45	30	40	18
31		23		731	792		162		44	30	40	18
Total	384	1,011	1,302	6,326	19,418	20,512	6,284	2,801	1,895	1,088	795	693
Mean	12.8	32.6	43.4	204	626	684	203	93.3	61.1	35	28.3	22.3
Max.	15	110	104	731	1,530	1,448	447	146	92	42	45	40
Min.	10	10	22	67	240	345	131	72	44	30	23	18
Runoff - mcm.	33.178	87.350	112.493	546.566	1,677.75	1,772.237	542.938	242.006	163.728	94.003	68.688	59.875

WATER YEAR 1960 : Max. 1,530 Min. 10 Mean 171 Annual Runoff 5,400.778 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	18.00	183.79	1,696				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAN RIVER BASIN

Nan River at Ban San, Nan (N.13)

Location: Lat 18° - 32' - 06" N, Long 100° - 46' - 06" E, on right bank in front of Wat Phranet, Tambon Ban San, Amphoe Sa, Nan.

Drainage Area: 8,993 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +176.36 m.(M.S.L.) datum of 1959. Prior to Nov.18, 1963. Water - stage recorder at the same site at datum +176.65 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: Near the gage site.
Elevation: +186.63 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: 1959 to date.

Rating Operation:

Period of Rating: 1959 to date.
Rated by Float: -
Rated by Current Meter: 1959 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

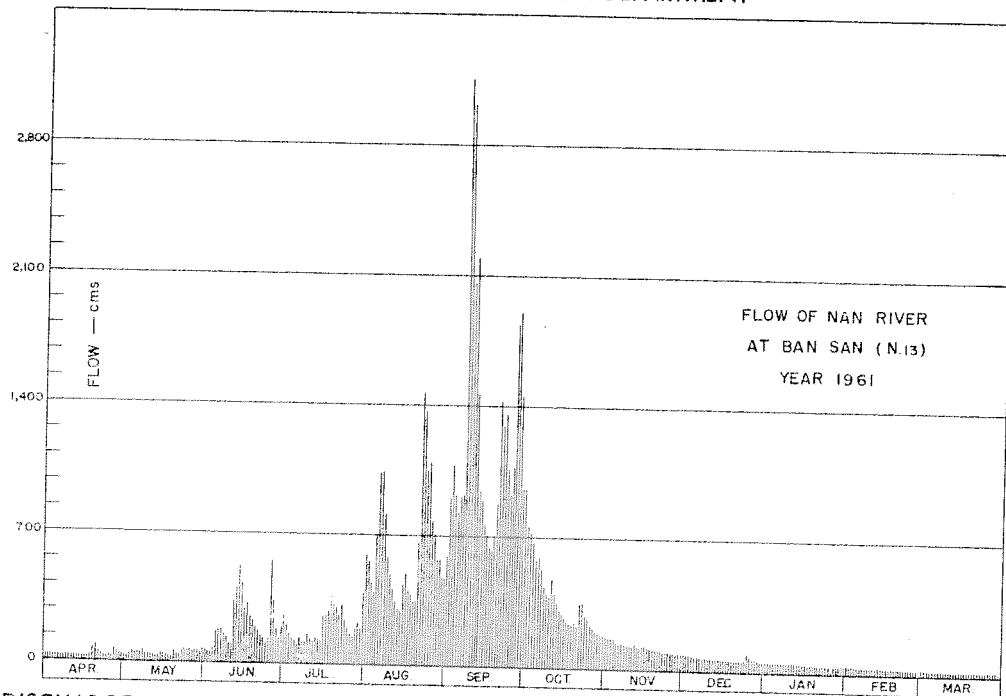
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	177.15	177.16	177.37	178.63	180.28	180.29	181.70	178.07	177.49	177.28	177.17	177.04
2	.14	.14	.32	.30	.15	181.53	180.95	.02	.48	.27	.17	.04
3	.15	.17	.28	.02	179.57	182.14	.79	.02	.47	.26	.17	.04
4	.12	.30	.46	177.81	.34	181.58	.60	177.95	.45	.26	.16	.03
5	.11	.27	178.04	.76	180.70	.19	.19	.91	.43	.25	.16	.03
6	177.10	177.30	178.09	177.68	181.99	181.55	180.26	177.87	177.42	177.25	177.16	177.03
7	.10	.12	.12	.90	182.00	.59	179.95	.83	.41	.24	.15	.03
8	.10	.32	177.94	.72	181.13	187.20	.59	.80	.40	.23	.15	.02
9	.12	.19	.84	.75	180.23	186.92	.35	.79	.39	.23	.14	.01
10	.11	.17	.63	.98	179.82	185.05	.26	.78	.38	.22	.13	.00
11	177.10	177.15	177.62	177.80	179.42	185.35	179.74	177.78	177.38	177.22	177.13	176.99
12	.09	.12	179.01	.75	.10	183.41	.44	.83	.37	.21	.12	.99
13	.08	.10	.42	.88	178.88	181.67	.13	.74	.36	.20	.11	.99
14	.07	.14	.96	.81	.82	.47	178.87	.72	.35	.20	.09	.99
15	.07	.28	.53	.79	179.55	.10	.79	.78	.34	.20	.08	.99
16	177.06	177.20	178.82	178.76	179.55	180.74	178.66	177.79	177.34	177.19	177.07	176.98
17	.06	.18	.98	.98	.37	.45	.52	.72	.34	.19	.06	.98
18	.15	.13	.58	.84	.29	.42	.45	.71	.33	.18	.06	.96
19	.46	.13	.41	179.23	.08	.93	.46	.67	.31	.18	.06	.97
20	.55	.32	.19	.02	.09	181.40	.52	.64	.30	.18	.05	.96
21	177.31	177.20	178.08	178.87	180.56	183.32	178.38	177.61	177.28	177.17	177.05	176.95
22	.20	.15	177.92	.76	183.43	182.85	179.08	.60	.27	.16	.04	.94
23	.08	.38	.81	.96	.15	183.09	.11	.59	.26	.16	.04	.94
24	.08	.39	.70	.52	182.03	182.10	178.74	.57	.38	.16	.04	.94
25	.14	.38	.84	.21	.21	181.58	.64	.55	.59	.16	.04	.94
26	177.12	177.42	180.12	178.06	181.01	182.11	178.40	177.55	177.58	177.17	177.04	176.93
27	.39	.34	179.05	177.94	180.73	184.49	.31	.53	.41	.17	.04	.93
28	.21	.39	178.16	178.20	.16	.67	.22	.53	.35	.17	.04	.94
29	.20	.39	177.85	.39	.19	183.41	.16	.52	.32	.17	.04	.94
30	.18	.34	178.24	.23	179.71	181.71	.11	.50	.29	.17	.04	.94
31		.41		179.31	.73		.09		.29	.17		.97
Mean	177.16	177.25	178.28	178.28	180.33	182.51	179.17	177.73	177.38	177.20	177.10	176.96
Max.	177.55	177.42	180.12	179.31	183.43	187.20	181.70	178.07	177.59	177.28	177.17	177.04
Min.	177.06	177.10	177.28	177.68	178.82	180.29	178.09	177.50	177.26	177.16	177.04	176.93

WATER YEAR 1961 : Max. 187.20 m. Min. 176.93 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	38	39	70	257	596	599	953	174	86	54	40	26
2	37	37	63	214	567	908	758	166	84	53	40	26
3	36	40	58	169	442	1,077	723	166	83	52	40	26
4	34	57	82	136	397	921	675	155	80	52	39	25
5	33	53	172	128	700	823	576	149	77	51	39	25
6	32	57	179	115	1,036	913	592	143	75	51	39	25
7	32	34	185	150	1,039	923	523	137	74	49	38	25
8	32	60	156	121	808	3,180	446	132	72	48	38	25
9	34	43	140	126	585	3,013	399	131	71	48	37	23
10	33	40	108	163	494	2,061	381	129	69	47	36	22
11	32	38	106	134	412	2,192	477	129	69	47	36	21
12	31	34	334	126	351	1,459	416	137	68	45	34	21
13	30	32	412	147	309	944	357	123	66	44	33	21
14	29	37	525	136	299	893	308	120	65	44	31	21
15	29	54	434	132	438	800	293	129	63	44	30	21
16	28	44	299	288	497	710	272	131	63	43	29	20
17	28	42	328	328	402	638	249	120	63	43	28	20
18	38	36	259	302	387	630	238	119	62	42	28	20
19	81	36	232	376	347	760	240	113	59	42	28	20
20	95	60	196	336	349	875	249	108	57	42	27	19
21	59	44	179	308	665	1,430	227	104	54	40	27	18
22	44	38	153	288	1,466	1,285	347	102	53	39	26	17
23	30	69	136	324	1,376	1,357	353	101	52	39	26	17
24	30	71	118	249	1,047	1,066	285	98	69	39	26	17
25	37	69	140	200	1,097	921	268	95	101	39	26	17
26	34	75	560	176	778	1,069	230	95	99	40	26	16
27	69	63	342	156	708	1,839	216	92	74	40	26	16
28	45	71	192	198	569	1,908	201	92	65	40	26	17
29	44	71	142	228	576	1,459	192	90	60	40	26	17
30	42	63	204	203	471	956	184	87	56	40	26	17
31		74		391	475		180		56	40	26	20
Total	1,196	1,581	6,504	6,615	19,683	37,609	11,808	3,667	2,145	1,377	899	641
Mean	39.8	51	217	213	635	1,254	381	122	69.1	44.4	32.1	20.6
Max.	95	75	560	391	1,466	3,180	953	174	101	54	40	26
Min.	28	32	58	115	299	599	180	87	52	39	26	16
Runoff - mcm.	103.334	136.598	561.946	571.536	1,700.611	3,249.418	1,020.211	316.829	185.328	118.973	77.674	55.382

WATER YEAR 1961 : Max. 3,180 Min. 16 Mean 257 Annual Runoff 8,097.840 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 8	18.00	187.48	3,250				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
NAN RIVER BASIN

Nan River at Ban San, Nan (N.13)

Location: Lat 18° - 32' - 06" N, Long 100° - 46' - 06" E, on right bank in front of Wat Phranet, Tambon Ban San, Amphoe Sa, Nan.

Drainage Area: 8,993 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +176.36 m.(M.S.L.) datum of 1959. Prior to Nov.18, 1963. Water - stage recorder at the same site at datum +176.65 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: Near the gage site.

Elevation: +186.63 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: 1959 to date.

Rating Operation:

Period of Rating: 1959 to date.

Rated by Float: -

Rated by Current Meter: 1959 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions above gage site.

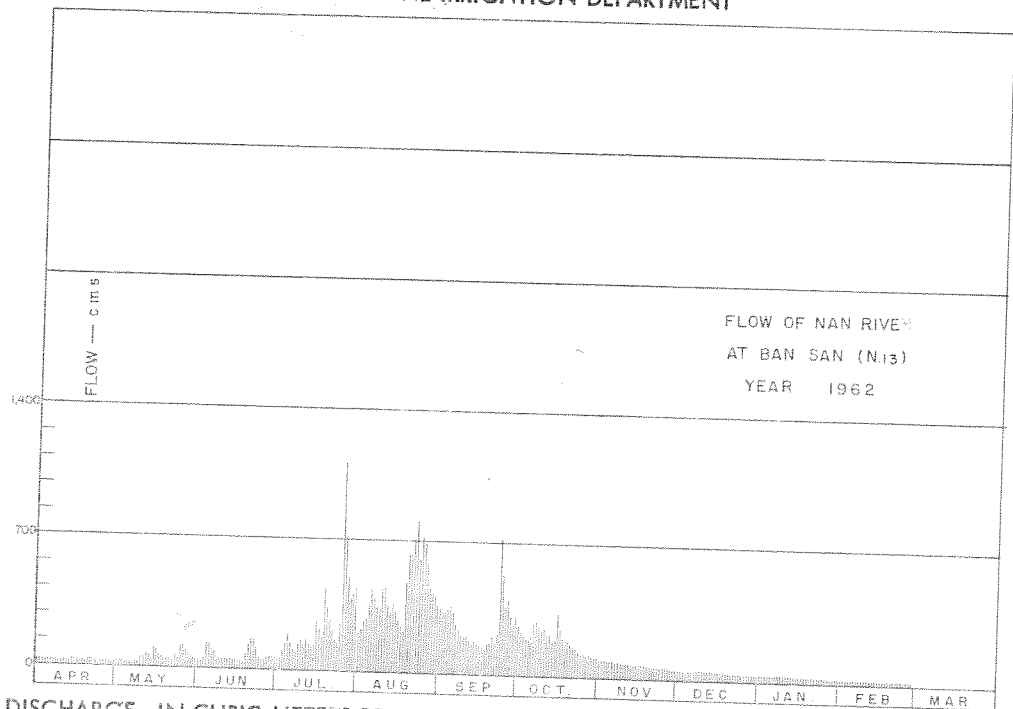
Remarks: No gage height record for Mar. 1 - 30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	176.97	177.03	177.15	177.22	178.30	179.25	178.60	177.58	177.29	177.09	177.02	
2	.97	.03	.13	.24	.66	.01	.36	.59	.29	.09	.02	
3	.96	.03	.25	.57	.82	178.89	.23	.56	.28	.09	.02	
4	.95	.00	.78	.84	.80	.98	.17	.53	.27	.09	.02	
5	.94	176.97	.75	178.24	179.13	179.09	.20	.51	.26	.09	.02	
6	176.93	176.96	177.53	177.90	179.62	178.87	178.31	177.49	177.26	177.09	177.01	
7	.93	.96	.47	.64	.45	.52	.66	.48	.25	.08	.01	
8	.94	.96	.34	.57	.21	.32	.79	.47	.24	.08	.00	
9	.93	.94	.25	.82	.09	.19	.64	.45	.24	.08	.00	
10	.93	177.20	.20	.99	.59	.13	.46	.45	.23	.08	176.99	
11	176.94	177.22	177.22	177.83	179.79	178.21	178.54	177.42	177.23	177.08	176.99	
12	.99	.41	.19	178.07	.18	.07	.48	.40	.22	.08	.98	
13	177.03	.33	.19	177.86	178.98	.01	.36	.39	.22	.08	.98	
14	.17	.15	.16	.73	179.22	.06	.17	.37	.21	.07	.97	
15	.06	.65	.17	.86	.00	177.97	.16	.36	.20	.07	.96	
16	177.03	177.54	177.13	178.64	178.74	177.89	178.97	177.36	177.19	177.07	176.96	
17	.00	.35	.12	.43	.52	.80	.55	.35	.18	.07	.96	
18	176.97	.17	.13	180.16	.44	.82	.28	.34	.17	.07	.96	
19	177.05	.11	.47	179.57	179.86	.98	.18	.33	.16	.06	.95	
20	.01	.20	.84	.07	180.53	178.09	.15	.33	.16	.06	.95	
21	177.22	177.16	178.06	178.67	180.45	178.17	178.03	177.32	177.15	177.06	176.95	
22	.18	.15	.03	.33	.78	177.99	177.96	.32	.15	.05	.95	
23	.04	.31	177.61	.08	181.23	178.28	.87	.32	.14	.05	.94	
24	.03	.31	.34	177.96	180.28	180.76	.82	.32	.13	.04	.94	
25	176.98	.66	.25	178.48	.94	179.63	.78	.32	.13	.04	.94	
26	176.96	177.77	177.21	181.85	180.73	179.19	177.73	177.31	177.12	177.04	176.94	
27	.99	.58	.34	180.73	.22	.36	.69	.31	.12	.03	.95	
28	.96	.44	.30	179.66	179.84	178.86	.75	.31	.11	.03	.97	
29	.96	.31	.33	.19	.63	.58	.63	.30	.11	.03		
30	.99	.23	.25	.34	.22	.84	.61	.29	.10	.03		
31		.19		178.54	.06		.59		.10	.02		
Mean	177.00	177.24	177.37	178.49	179.53	178.56	178.18	177.39	177.19	177.06	176.98	
Max.	177.22	177.77	178.06	181.85	181.23	180.76	178.97	177.59	177.29	177.09	177.02	
Min.	176.93	176.94	177.13	177.22	178.30	177.80	177.59	177.29	177.10	177.02	176.94	

WATER YEAR 1962 : Max. 181.85 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20	27	38	55	206	366	253	93	49	32	26	
2	20	28	35	57	224	334	226	95	49	32	26	
3	19	27	53	95	267	325	208	89	49	32	26	
4	18	26	132	136	285	341	193	86	47	32	26	
5	18	22	129	193	345	363	192	85	47	32	26	
6	18	21	96	142	440	323	208	86	47	32	25	
7	18	21	86	102	394	262	269	83	47	31	25	
8	18	21	62	92	339	226	267	85	47	31	24	
9	15	19	53	131	334	204	262	82	49	31	24	
10	15	45	46	155	448	193	231	73	49	31	23	
11	18	46	49	132	462	197	247	73	49	31	23	
12	23	70	46	167	352	175	237	73	47	31	22	
13	25	61	47	136	319	155	222	72	47	31	22	
14	35	39	46	117	366	174	180	70	45	30	22	
15	27	104	45	136	327	156	186	72	44	30	21	
16	26	90	40	267	269	149	325	72	44	30	21	
17	23	67	38	229	244	141	246	70	44	30	21	
18	21	44	37	182	219	132	199	68	43	30	21	
19	26	35	81	442	484	158	190	65	40	29	20	
20	23	46	135	345	633	167	185	63	40	29	20	
21	29	40	166	273	623	190	167	61	40	29	20	
22	33	39	162	211	703	162	156	59	39	28	20	
23	26	64	99	170	811	210	142	58	38	28	19	
24	24	58	63	150	573	721	138	58	37	28	19	
25	22	112	52	253	719	458	123	57	37	28	19	
26	21	115	49	1,117	691	368	118	55	35	28	19	
27	23	92	68	706	588	400	107	57	35	27	20	
28	21	74	69	495	470	307	120	55	34	27	20	
29	21	61	72	388	426	264	104	52	34	27	20	
30	23	49	59	414	410	303	102	51	33	27	20	
31	43	43	44C	364	364	303	98	51	33	27	20	
Total	669	1,606	2,153	7,928	13,335	7,924	5,921	2,118	1,318	920	622	
Mean	22.3	51.8	71.7	256	430	264	191	70.6	42.5	29.6	22.2	
Max.	35	115	166	1,117	811	721	325	95	49	32	26	
Min.	15	19	35	55	206	132	98	51	33	26	19	
Runoff - mcm.	57.802	138.758	186.019	684.979	1,152.144	684.634	511.574	182.995	113.875	79.488	53.741	

WATER YEAR 1962 : Max. 1,117 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 26	15.00	181.92	1,138				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
NAN RIVER BASIN

Nan River at Chumsaeng, Nakhon Sawan (N.14)

Location: Lat 15°-53' - 41" N, Long 100°-18' - 44" E, on right bank in front of the previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,110 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.00 m.(M.S.L.) datum of 1954. Prior to Apr.1, 1964. Staff gage at 30 meters downstream at datum +18.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: 45 meters from the fence of Amphoe Chumsaeng Office.
Elevation: +27.588 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1965 to date.
 Rated by Float: -
 Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

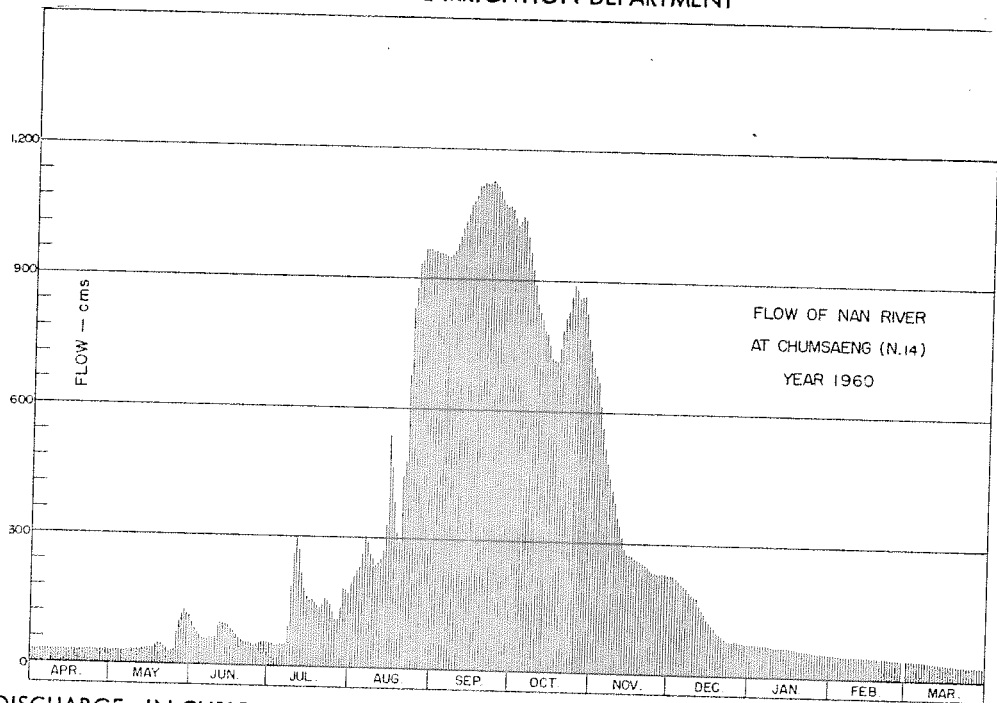
Remarks: Records for Nov. 9 - Dec.9, estimated base on the observation at station N.7 and N.8

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.03	19.06	20.40	19.54	21.66	26.32	26.60	25.04	21.98	20.01	19.61	19.36
2	.03	.06	.22	.52	.82	.31	.64	24.96	.97	.00	.59	.34
3	.03	.06	.01	.46	.96	.31	.69	.66	.91	.00	.58	.34
4	.03	.06	19.91	.50	22.03	.29	.63	.38	.88	.00	.57	.32
5	.03	.06	.77	.53	.31	.28	.49	.11	.82	19.99	.56	.32
6	19.03	19.06	19.71	19.52	22.65	26.31	26.34	23.88	21.74	19.98	19.55	19.30
7	.03	.06	.70	.55	.53	.34	.18	.68	.71	.97	.54	.30
8	.03	.07	.78	20.33	.28	.41	25.88	.48	.61	.96	.53	.29
9	.03	.08	.73	21.51	.17	.49	.81	.29	.54	.94	.53	.28
10	.03	.09	.90	22.26	.07	.55	.73	.10	.48	.92	.52	.25
11	19.03	19.09	20.30	22.58	22.11	26.63	25.66	22.91	21.46	19.91	19.51	19.24
12	.03	.12	.43	.37	.20	.69	.56	.70	.26	.89	.51	.22
13	.03	.13	.40	21.88	.38	.77	.50	.48	.11	.88	.50	.21
14	.03	.16	.37	.49	.87	.81	.39	.39	20.99	.87	.49	.19
15	.03	.17	.30	.28	24.23	.85	.23	.37	.86	.85	.49	.18
16	19.03	19.19	20.16	21.20	23.75	26.92	25.20	22.35	20.76	19.84	19.48	19.16
17	.03	.21	.12	.21	.25	.93	.20	.30	.67	.82	.47	.14
18	.03	.30	19.92	.14	22.70	.94	.35	.28	.59	.81	.47	.14
19	.03	.46	.80	.05	.32	.94	.56	.25	.41	.79	.47	.12
20	.03	.48	.70	20.99	23.64	.95	.68	.21	.37	.78	.45	.11
21	19.03	19.29	19.64	21.10	23.86	26.96	25.75	22.17	20.27	19.77	19.45	19.10
22	.04	.17	.60	.22	25.01	.94	.90	.13	.19	.75	.44	.10
23	.05	18.93	.57	.17	.75	.92	26.02	.07	.12	.73	.43	.09
24	.05	19.01	.49	.05	.98	.87	25.98	.04	.10	.71	.41	.08
25	.05	.13	.42	20.83	26.20	.81	.88	.02	.09	.69	.40	.07
26	19.05	19.99	19.51	20.60	26.25	26.77	25.90	22.01	20.13	19.67	19.39	19.06
27	.05	20.44	.54	.62	.35	.75	.90	.00	.09	.66	.38	.06
28	.06	.66	.60	.98	.35	.76	.73	.00	.06	.65	.37	.05
29	.06	.83	.60	21.49	.34	.71	.47	.01	.04	.64	.04	.04
30	.06	.72	.57	.47	.33	.66	.33	.00	.03	.63	.03	.03
31	.06	.66	.40	.40	.33	.15	.02	.02	.62	.62	.03	.03
Mean	19.04	19.41	19.87	20.90	23.73	26.67	25.82	22.81	20.88	19.83	19.49	19.18
Max.	19.06	20.85	20.43	22.58	26.35	26.96	26.69	25.04	21.98	20.01	19.61	19.36
Min.	19.03	18.93	19.42	19.46	21.66	26.28	25.15	22.00	20.02	19.62	19.37	19.03

WATER YEAR 1960 : Max. 26.96 m. Min. 18.93 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	969	33	98	53	197	961	1,028	604	229	75	55	45
2	32	33	87	52	213	958	1,038	668	228	75	55	45
3	32	33	75	49	227	958	1,051	613	222	75	54	45
4	32	33	70	51	234	954	1,036	562	219	75	54	44
5	32	33	63	52	265	951	1,002	518	213	74	53	44
6	32	33	60	52	306	958	966	481	205	74	53	43
7	32	33	60	53	292	966	927	449	202	73	53	43
8	32	34	64	94	262	982	660	419	192	72	52	43
9	32	34	61	183	250	1,002	844	393	186	72	52	42
10	32	35	70	260	239	1,016	827	366	130	71	52	41
11	32	35	92	298	243	1,036	811	339	178	70	51	41
12	32	36	100	272	253	1,051	789	312	161	69	51	40
13	32	36	98	219	274	1,072	776	286	149	69	51	39
14	32	37	96	181	334	1,083	754	275	139	68	51	39
15	32	38	92	162	537	1,094	722	272	129	67	51	38
16	32	39	84	156	460	1,114	716	270	122	67	50	37
17	32	39	81	157	387	1,116	716	264	116	66	50	37
18	32	43	71	151	312	1,119	746	262	110	65	50	37
19	32	49	65	144	266	1,119	789	258	99	64	50	36
20	32	50	60	139	442	1,122	816	254	96	64	49	35
21	32	43	57	148	478	1,125	831	250	90	63	49	35
22	33	38	55	158	678	1,119	864	245	85	62	49	35
23	33	30	54	154	831	1,114	891	239	81	61	48	35
24	33	31	51	144	882	1,100	882	235	80	60	47	34
25	33	36	48	127	932	1,083	860	233	79	59	47	34
26	33	74	51	111	944	1,072	864	232	82	58	47	33
27	33	100	53	112	968	1,067	864	231	79	58	46	33
28	33	115	55	138	968	1,070	827	231	78	57	46	33
29	33	127	55	181	966	1,057	770	232	77	57	46	33
30	33	119	54	179	963	1,044	742	231	76	56	46	32
31	115	115	173	173	963	963	706	231	76	56	46	32
Total	969	1,564	2,080	4,403	15,566	31,483	26,315	10,304	4,258	2,052	1,416	1,183
Mean	32.3	50.4	69.3	142	502	1,049	849	343	137	66.1	50.5	38.1
Max.	33	127	100	298	968	1,125	1,051	684	229	75	55	45
Min.	32	30	48	49	197	951	706	231	76	56	46	32
Runoff - mcm.	83.722	135.130	179.712	380.419	1,344.902	2,720.131	2,273.616	890.266	367.891	177.293	122.342	102.211

WATER YEAR 1960 : Max. 1,125 Min. 30 Mean 278 Annual Runoff 8,777.635 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	18.00	26.97	1,128				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
NAN RIVER BASIN

Nan River at Chumsaeng, Nakhon Sawan (N.14)

Location: Lat 15° - 53' - 41" N, Long 100° - 18' - 44" E, on right bank in front of the previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,110 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.00 m.(M.S.L.) datum of 1954. Prior to Apr. 1, 1964. Staff gage at 30 meters downstream at datum +18.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: 45 meters from the fence of Amphoe Chumsaeng Office.
 Elevation: +27.588 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

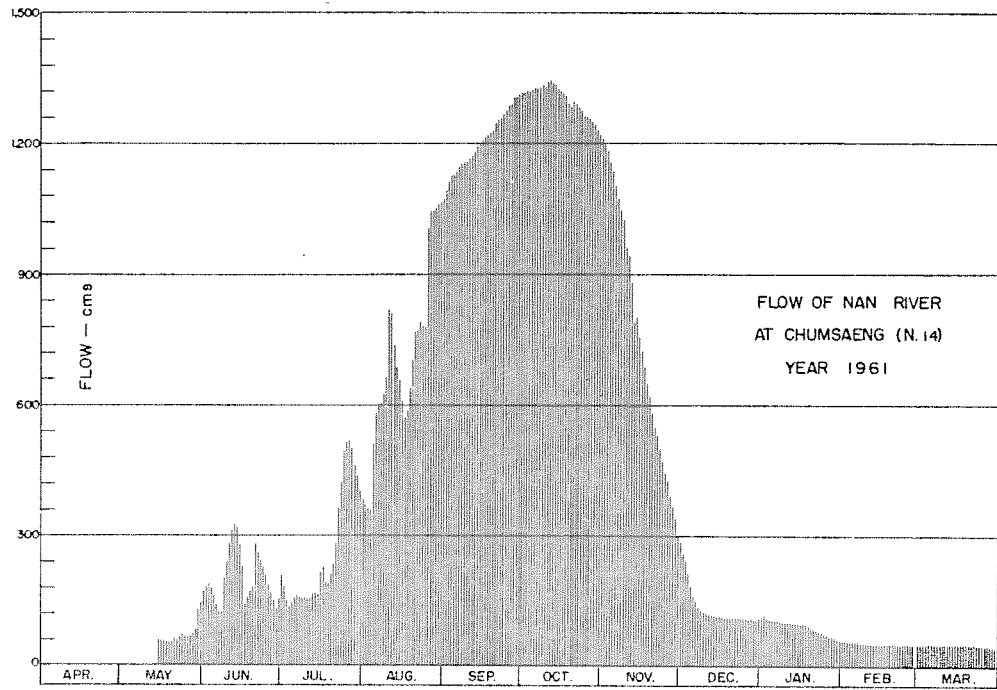
Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			21.57	21.78	23.23	26.79	27.65	27.27	22.48	20.60	19.65	19.46
2			.51	.50	.14	.86	.63	.21	.24	.69	.64	.46
3			.58	.18	.07	.92	.64	.17	.10	.59	.63	.47
4			.44	.00	.05	.96	.64	.08	21.84	.55	.62	.47
5			.26	.10	24.07	.97	.65	.00	.52	.52	.61	.47
6			20.99	21.22	24.32	27.00	27.65	26.88	21.24	20.50	19.60	19.46
7			.81	.28	.52	.04	.66	.77	.10	.49	.58	.46
8			.79	.22	.61	.06	.67	.67	20.92	.47	.54	.46
9			21.74	.20	.77	.07	.68	.58	.84	.43	.53	.46
10			22.10	.20	.96	.08	.68	.31	.80	.42	.51	.46
11			22.47	21.20	25.69	27.10	27.71	26.23	20.76	20.41	19.50	19.45
12			.70	.21	.65	.14	.72	25.96	.73	.40	.49	.45
13			.81	.33	.31	.17	.70	.55	.69	.39	.48	.45
14			.76	.36	.05	.21	.69	.61	.66	.38	.47	.45
15		19.70	.43	.30	24.90	.23	.66	.41	.64	.37	.47	.45
16		19.67	21.97	21.85	24.63	27.25	27.64	25.23	20.63	20.37	19.47	19.47
17		.62	22.03	.97	.43	.29	.62	.04	.62	.36	.47	.47
18		.60	.25	.61	.52	.30	.60	24.85	.60	.31	.47	.46
19		.59	.41	.61	.81	.32	.55	.71	.60	.27	.47	.45
20		.64	.54	.80	25.14	.34	.52	.49	.60	.23	.47	.45
21		19.76	22.44	22.18	25.45	27.40	27.56	24.30	20.59	20.19	19.47	19.44
22		.74	.29	.62	.49	.42	.54	.18	.58	.15	.47	.42
23		.85	.12	23.09	.56	.44	.52	.00	.58	.10	.46	.41
24		.97	21.97	.49	.62	.47	.49	23.82	.57	.02	.46	.39
25		.91	.78	.96	.97	.50	.45	.65	.57	19.97	.46	.37
26		19.83	21.58	24.09	26.51	27.53	27.44	23.50	20.56	19.93	19.46	19.35
27		.90	.36	.11	.66	.54	.43	.30	.56	.88	.46	.33
28		20.01	.17	23.98	.67	.59	.40	.11	.56	.84	.46	.30
29		.22	20.90	.77	.69	.60	.39	22.91	.55	.79		.29
30		.86	22.25	.63	.72	.61	.35	.63	.55	.72		.26
31		21.13	.45	.73	.73		.30		.56	.66		.22
Mean			21.86	22.14	25.16	27.24	27.57	25.25	20.90	20.26	19.51	19.42
Max.			22.81	24.11	26.73	27.61	27.72	27.27	22.48	20.69	19.65	19.47
Min.			20.79	21.00	23.05	26.79	27.30	22.63	20.55	19.66	19.46	19.22

WATER YEAR 1961 : Max. 27.72 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			170	209	384	1,077	1,317	1,212	286	111	57	49
2			183	182	372	1,097	1,317	1,195	257	117	57	49
3			189	154	362	1,114	1,320	1,184	242	110	56	50
4			177	140	359	1,125	1,320	1,158	215	107	56	50
5			161	148	511	1,128	1,323	1,136	184	105	55	50
6			139	158	552	1,136	1,326	1,102	159	104	55	49
7			126	162	588	1,147	1,326	1,072	148	103	54	49
8			124	158	604	1,153	1,329	1,046	134	102	53	49
9			205	156	633	1,156	1,332	1,023	128	100	52	49
10			242	156	668	1,158	1,332	958	125	99	51	49
11			284	156	818	1,164	1,341	939	122	99	51	49
12			312	157	809	1,175	1,344	877	120	98	51	49
13			325	167	738	1,184	1,338	787	117	97	50	49
14			319	169	686	1,195	1,335	800	115	97	50	49
15		60	280	164	656	1,200	1,326	758	114	96	50	49
16		58	228	216	607	1,206	1,320	722	113	96	50	50
17		56	142	228	571	1,217	1,314	684	112	96	50	50
18		55	160	192	588	1,220	1,308	647	111	93	50	49
19		55	174	192	640	1,226	1,293	622	111	90	50	49
20		57	186	211	704	1,231	1,284	582	111	88	50	49
21		63	281	251	766	1,248	1,296	548	110	85	50	49
22		62	263	302	774	1,254	1,290	529	110	83	50	48
23		67	244	365	789	1,260	1,284	500	110	80	49	47
24		73	228	421	802	1,269	1,275	471	109	76	49	47
25		70	269	494	879	1,278	1,263	444	109	73	49	46
26		66	189	514	1,006	1,287	1,260	422	108	71	49	45
27		70	169	518	1,044	1,290	1,257	394	108	69	49	44
28		75	154	497	1,046	1,305	1,248	367	108	67	49	43
29		87	132	463	1,051	1,308	1,245	339	107	64	49	43
30		129	258	441	1,059	1,311	1,234	304	107	61	49	41
31		150	415	415	1,062	1,062	1,220	108	108	58	49	40
Total			6,253	8,156	22,128	36,119	40,317	22,822	4,218	2,795	1,442	1,478
Mean			208	263	714	1,204	1,300	761	136	90.1	51.5	47.6
Max.			325	518	1,062	1,311	1,344	1,212	286	117	57	50
Min.			132	140	359	1,077	1,220	304	107	58	49	40
Runoff - mcm.			540.259	704.678	1,911.859	3,120.682	3,483.389	1,971.821	344.435	241.488	124.589	127.699

WATER YEAR 1961 : Max. 1,344 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	09.00	27.72	1,344				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAN RIVER BASIN

Nan River at Chumsaeng, Nakhon Sawan (N.14)

Location: Lat 15° - 53' - 41" N, Long 100° - 18' - 44" E, on right bank in front of the previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,110 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.00 m.(M.S.L.) datum of 1954. Prior to Apr. 1, 1964. Staff gage at 30 meters downstream at datum +18.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: 45 meters from the fence of Amphoe Chumsaeng Office.

Elevation: +27.588 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

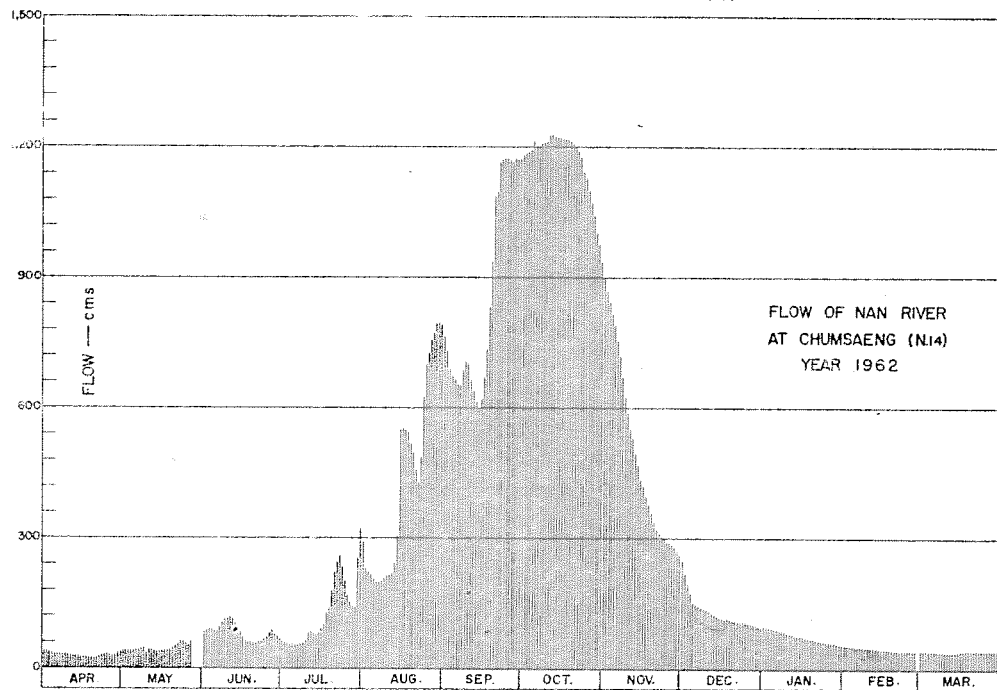
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1965. No state diversions above gage site.

Remarks: Gage height record for Dec. 5 - Mar. 31, estimated base on stage correlation with station N.8

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.19	19.28	20.17	19.73	22.53	25.42	27.16	26.04	22.17	20.39	19.63	19.30
2	.17	.28	.25	.68	.01	.27	.18	25.91	21.90	.37	.61	.30
3	.15	.27	.31	.66	21.93	.06	.19	.79	.68	.34	.59	.30
4	.11	.26	.28	.64	.86	24.99	.20	.68	.42	.31	.57	.30
5	.08	.28	.18	.63	.76	.94	.22	.56	.17	.28	.55	.28
6	19.05	19.29	20.18	19.63	21.67	24.87	27.23	25.38	21.12	20.26	19.53	19.28
7	.01	.33	.40	.62	.67	.88	.24	.20	.08	.23	.52	.28
8	.00	.38	.56	.62	.69	25.08	.25	24.95	.04	.20	.51	.27
9	.00	.43	.64	.68	.76	.15	.26	.71	.01	.17	.49	.27
10	18.97	.38	.67	.81	.83	.12	.27	.49	20.97	.14	.48	.26
11	18.93	19.33	20.69	20.14	21.85	24.93	27.32	24.30	20.92	20.11	19.47	19.25
12	.91	.29	.64	.18	.87	.83	.32	.16	.87	.08	.45	.25
13	.90	.24	.50	.09	22.10	.68	.31	23.96	.82	.05	.44	.25
14	.88	.20	.27	.07	.58	.59	.31	.77	.77	.02	.42	.26
15	.84	.20	.13	.12	24.31	.70	.30	.59	.73	.00	.40	.27
16	18.82	19.24	19.97	20.31	24.33	24.97	27.29	23.47	20.70	19.97	19.39	19.28
17	.81	.28	.78	.46	.31	25.29	.28	.31	.67	.94	.37	.29
18	.78	.28	.74	.84	.27	.75	.28	.17	.65	.91	.36	.30
19	.76	.30	.70	21.02	.11	26.19	.27	.04	.62	.89	.34	.30
20	.75	.40	.70	.48	.03	.82	.24	22.90	.59	.87	.34	.30
21	18.81	19.52	19.69	21.86	23.73	26.85	27.22	22.77	20.57	19.84	19.33	19.30
22	.87	.64	.73	22.12	.54	27.09	.19	.69	.55	.83	.32	.30
23	.94	.76	.78	.26	.88	.13	.14	.63	.53	.81	.32	.30
24	.99	.78	.86	21.99	24.72	.14	.03	.59	.51	.79	.31	.29
25	19.04	.69	.99	.72	25.11	.13	26.97	.54	.49	.77	.30	.29
26	18.99	19.62	20.13	21.33	25.25	27.11	26.87	22.51	20.46	19.75	19.30	19.29
27	.96	.72	.25	.15	.40	.10	.77	.47	.43	.72	.30	.29
28	19.03	.12	.02	.50	.13	.66	.43	.40	.71	.30	.29	.29
29	.14	.03	.01	.59	.12	.48	.37	.37	.69	.67	.29	.29
30	.22		19.91	22.20	.60	.12	.37	.31	.34	.67	.29	.29
31				.79	.56		.20		.31	.65		.29
Mean	18.97		20.14	20.67	23.43	25.81	27.10	23.82	20.83	19.99	19.43	19.28
Max.	19.22		20.69	22.26	25.60	27.14	27.32	26.04	22.17	20.39	19.63	19.30
Min.	18.75		19.70	19.62	21.67	24.59	26.20	22.31	20.31	19.65	19.30	19.25

WATER YEAR 1962 : Max. 27.32 m. Min. 18.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39	42	84	61	292	760	1,181	895	250	97	56	43
2	38	42	89	59	232	730	1,186	866	221	96	55	43
3	37	42	93	58	224	688	1,189	840	199	94	55	43
4	35	41	91	57	217	674	1,192	816	175	93	54	43
5	34	42	85	56	207	664	1,212	789	154	91	53	42
6	33	43	85	56	198	651	1,200	752	150	90	52	42
7	31	44	98	56	198	652	1,203	716	146	88	52	42
8	31	46	108	56	200	692	1,206	666	143	86	51	42
9	31	48	114	59	207	706	1,209	622	141	84	51	42
10	30	36	116	65	214	700	1,212	582	138	82	50	41
11	30	44	117	82	216	662	1,226	548	134	81	50	41
12	28	43	114	85	218	643	1,226	526	130	79	49	41
13	28	41	104	79	242	616	1,223	494	126	77	49	41
14	27	39	90	78	298	600	1,223	463	123	76	48	41
15	26	39	82	81	550	620	1,220	435	120	75	47	42
16	26	41	73	93	553	670	1,217	418	118	73	47	42
17	25	42	64	102	550	734	1,214	395	116	72	46	43
18	24	42	62	128	543	831	1,214	376	114	70	45	43
19	24	43	60	142	518	930	1,212	358	112	69	45	43
20	23	47	60	180	505	1,086	1,203	338	110	68	45	43
21	25	52	59	217	457	1,094	1,198	320	109	67	44	43
22	27	57	61	244	428	1,161	1,189	311	107	66	44	43
23	29	63	64	260	481	1,172	1,175	304	105	65	44	43
24	31	64	68	230	624	1,175	1,144	299	105	64	43	43
25	33	59	74	203	698	1,172	1,128	293	103	63	43	43
26	31	56	82	167	726	1,167	1,100	289	102	62	43	43
27	30	61	89	152	756	1,164	1,072	284	100	61	43	43
28	32		81	142	776	1,172	1,044	280	98	60	43	43
29	37		76	141	796	1,170	999	272	96	59	43	43
30	40		70	253	798	1,170	973	265	94	58	43	43
31				323	789		932		93	57	43	43
Total	915		2,513	3,965	13,711	25,926	36,122	14,812	4,032	2,323	1,347	1,316
Mean	30.5		83.7	128	442	864	1,165	494	130	74.9	48.1	42.4
Max.	40		117	323	798	1,175	1,226	895	250	97	56	43
Min.	23		59	56	198	600	932	265	93	57	43	41
Runoff - mcm.	79.056		217.123	342.576	1,184.630	2,240.006	3,120.941	1,279.757	348.365	200.707	116.381	113.702

WATER YEAR 1962 : Max. 1,116 Min. 20 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	12.00	27.32	1,226				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHAO PHYA RIVER BASIN

Chao Phya River at Muang Nakhon Sawan (C.2)

Location: Lat 15°-40' - 15" N, Long 100°-06' - 45" E, on left bank 2 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.

Drainage Area: 111,435 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +17.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank 20 meters west of gage site.

Elevation: B.M.1 +26.258 m.(M.S.L.) and B.M.2 +26.091 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: 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: Rather unstable, periodic rating curves and shifting adjustment are included for flow computation.

Overbank Flow Conditions: No overbank flow.

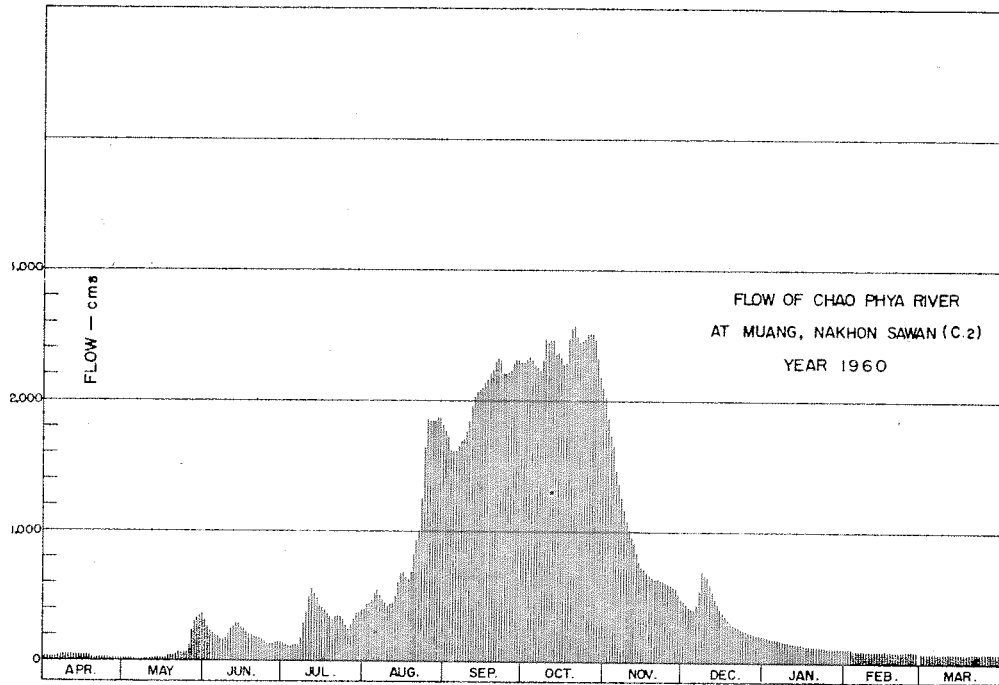
General Description: Records good. The data presented is made by discharge measurements during 1960. Upstream state diversions for irrigation of about 91,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17.33	17.21	18.89	18.01	19.18	22.47	23.30	23.04	19.55	18.45	17.89	17.67
2	.33	.21	.70	17.95	.35	.39	.33	22.83	.48	.42	.89	.65
3	.32	.22	.52	.91	.35	.29	.36	.59	.43	.40	.87	.63
4	.31	.20	.42	.90	.43	.27	.36	.45	.40	.36	.84	.62
5	.30	.18	.32	.92	.66	.26	.31	.09	.38	.35	.83	.59
6	17.44	17.17	18.25	17.92	19.72	22.34	23.27	21.85	19.40	18.33	17.82	17.59
7	.46	.17	.20	.93	.60	.36	.25	.64	.76	.31	.82	.57
8	.47	.16	.15	18.23	.45	.38	.37	.43	20.21	.28	.81	.55
9	.46	.19	.16	.77	.37	.48	.59	.25	.27	.25	.80	.55
10	.46	.19	.31	19.18	.32	.64	.62	.09	.22	.23	.79	.55
11	17.46	17.18	18.52	19.65	19.34	22.83	23.63	26.95	20.07	18.21	17.78	17.53
12	.45	.18	.63	.82	.41	.94	.63	.82	19.88	.19	.77	.53
13	.44	.20	.69	.74	.56	.99	.62	.69	.70	.17	.77	.53
14	.44	.21	.71	.56	.87	23.03	.63	.59	.54	.16	.77	.53
15	.44	.22	.64	.38	20.07	.00	.58	.49	.40	.14	.76	.53
16	17.47	17.24	18.59	19.29	20.10	23.03	23.50	20.42	19.28	18.12	17.74	17.52
17	.46	.28	.49	.18	.62	.06	.53	.36	.18	.12	.73	.51
18	.45	.41	.39	.07	19.95	.11	.70	.31	.08	.10	.73	.50
19	.34	.44	.30	18.97	20.07	.14	.76	.27	.01	.07	.72	.52
20	.29	.45	.24	.92	.37	.25	.78	.22	18.92	.06	.70	.60
21	17.27	17.51	18.22	18.97	20.65	23.29	23.75	20.17	18.87	18.04	17.70	17.61
22	.27	.59	.19	19.04	21.04	.28	.69	.13	.81	.03	.69	.60
23	.27	.60	.15	.03	.34	.24	.70	.10	.76	.00	.69	.53
24	.27	.58	.08	18.91	22.14	.23	.74	.07	.71	17.99	.71	.59
25	.27	.67	.03	.79	.53	.25	.77	.04	.68	.97	.73	.60
26	17.25	18.06	18.01	18.66	22.51	23.28	23.79	20.01	18.63	17.97	17.74	17.59
27	.24	.60	.02	.69	.51	.28	.75	.00	.59	.95	.73	.59
28	.22	.91	.01	.91	.59	.32	.63	19.94	.56	.94	.70	.57
29	.21	.94	.04	19.07	.64	.31	.45	.81	.53	.93	.55	.55
30	.21	19.03	.03	.10	.63	.29	.26	.66	.50	.92	.54	.54
31		.07		.12	.55		.15		.46	.90		.53
Mean	17.35	17.59	18.33	18.82	20.53	22.90	23.54	20.84	19.23	18.14	17.77	17.57
Max.	17.47	19.07	18.89	19.82	22.64	23.32	23.79	23.04	20.27	18.45	17.89	17.67
Min.	17.21	17.16	18.01	17.90	19.18	22.26	23.15	19.66	18.46	17.90	17.69	17.50

WATER YEAR 1960 : Max. 23.79 m. Min. 17.17 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	29	21	319	140	400	1,776	2,295	2,036	472	200	104	79
2	29	21	274	129	443	1,732	2,315	1,875	452	194	104	77
3	28	21	234	121	443	1,620	2,335	1,731	421	190	102	74
4	27	21	223	120	465	1,609	2,308	1,653	413	183	99	73
5	27	16	201	127	534	1,604	2,276	1,480	407	181	98	70
6	40	15	187	127	553	1,646	2,250	1,361	440	178	97	70
7	43	15	176	129	515	1,699	2,237	1,264	549	174	97	67
8	44	19	166	189	470	1,710	2,315	1,171	700	169	96	65
9	43	21	176	309	448	1,765	2,466	1,092	676	163	94	65
10	43	21	208	385	435	1,856	2,459	1,022	658	160	93	65
11	43	20	254	506	440	1,965	2,466	964	607	151	92	63
12	42	21	278	559	459	2,036	2,466	911	545	148	91	63
13	40	22	293	534	503	2,067	2,356	835	499	145	91	63
14	42	23	297	479	602	2,092	2,362	774	452	143	91	63
15	42	24	263	429	671	2,098	2,328	736	413	140	90	63
16	46	25	251	420	681	2,142	2,276	711	381	137	87	62
17	44	30	229	393	654	2,174	2,295	690	355	137	86	61
18	42	44	208	366	650	2,205	2,480	672	330	134	86	59
19	30	48	206	341	693	2,225	2,552	658	314	129	85	62
20	26	47	193	329	824	2,295	2,567	641	292	128	82	71
21	24	55	189	341	937	2,321	2,487	648	281	128	82	72
22	24	68	182	358	1,106	2,312	2,445	634	267	126	81	71
23	24	70	174	344	1,245	2,212	2,452	624	256	121	81	63
24	24	66	160	314	1,641	2,205	2,480	614	245	120	84	70
25	24	71	142	285	1,856	2,218	2,502	603	245	117	86	71
26	23	131	138	256	1,845	2,237	2,516	593	235	117	87	70
27	22	242	140	281	1,845	2,282	2,509	590	226	114	86	70
28	21	314	138	334	1,845	2,308	2,469	571	226	111	82	67
29	21	331	153	373	1,874	2,302	2,320	530	215	110		65
30	21	353	152	380	1,868	2,289	2,182	482	209	108		64
31		363		385	1,822		2,107		202	106		63
Total	978	2,559	6,204	9,783	28,747	61,009	73,873	22,168	11,983	4,462	2,534	2,081
Mean	32.6	82.5	207	315	927	2,034	2,383	939	386	144	90.5	67.1
Max.	46	363	319	559	1,874	2,321	2,567	2,036	700	200	104	79
Min.	21	15	138	120	400	1,604	2,107	484	202	106	81	59
Runoff - mcm.	84.499	221.098	536.026	845.251	2,483.741	5,271.178	6,382.627	2,433.715	1,055	385.517	218.938	179.798

WATER YEAR 1960 : Max. 2,567 Min. 15 Mean 637 Annual Runoff 20,077.718mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 20	18.00	23.79	2,567				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHAO PHYA RIVER BASIN

Chao Phya River at Muang Nakhon Sawan (C.2)

Location: Lat $15^{\circ} - 40' - 15''$ N, Long $100^{\circ} - 06' - 45''$ E, on left bank 2 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.

Drainage Area: 111,435 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 17.00 m.(M.S.L.)

Bench Marks: B.M. - H.S./R.I.D.

Location: On left bank 20 meters west of gage site.

Elevation: B.M.1 +26.258 m.(M.S.L.) and B.M.2 +26.091 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: 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: Rather unstable, periodic rating curves and shifting adjustment are included for flow computation.

Overbank Flow Conditions: No overbank flow.

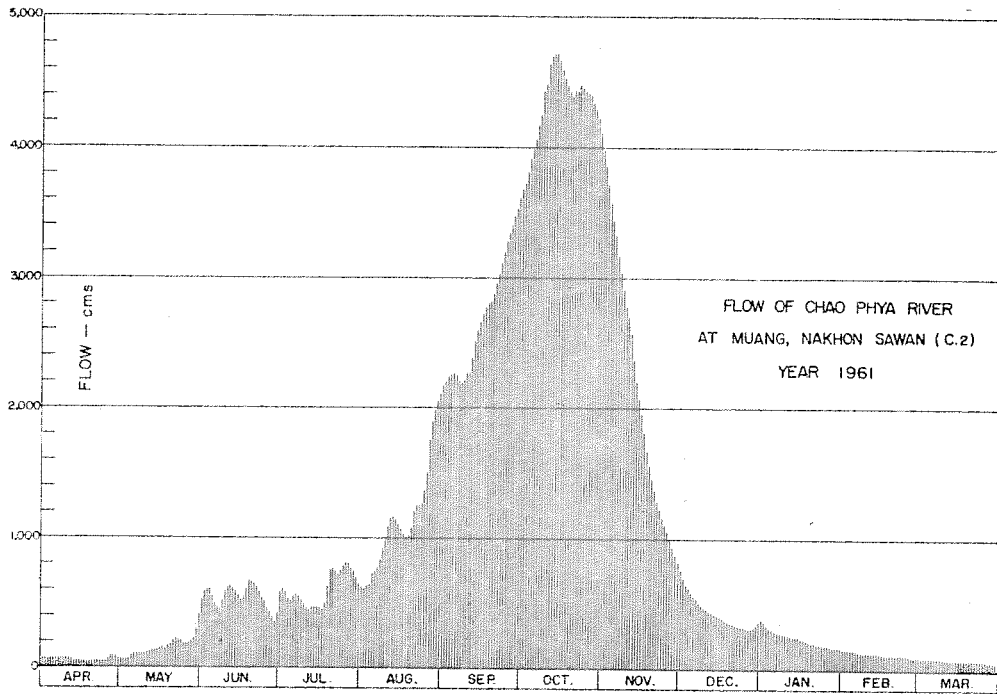
General Description: Records good. The data presented is made by discharge measurements during 1961. Upstream state diversions for irrigation of about 91,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17.53	17.57	19.57	19.80	20.06	23.29	25.02	25.35	20.48	19.30	18.42	18.07
2	.53	.53	.77	.86	.02	.38	.10	.26	.33	.23	.40	.06
3	.53	.50	.86	.80	.04	.43	.17	.16	.21	.14	.39	.04
4	.54	.59	.87	.65	.09	.45	.25	.95	.11	.07	.37	.03
5	.54	.71	.72	.63	.38	.46	.32	24.92	.01	.02	.35	.02
6	7.54	17.79	19.59	19.75	20.56	23.45	25.38	24.80	19.94	18.97	18.34	18.01
7	.56	.80	.46	.77	.65	.44	.45	.67	.87	.95	.32	.00
8	.58	.81	.40	.72	.68	.43	.51	.53	.79	.92	.31	17.99
9	.60	.81	.59	.61	.89	.45	.57	.39	.73	.90	.30	.99
10	.61	.82	.79	.50	21.18	.46	.60	.24	.67	.88	.29	.97
11	17.55	17.84	19.93	19.42	21.43	23.47	25.67	24.07	19.62	18.85	18.27	17.95
12	.51	.88	.95	.41	.58	.57	.70	23.91	.57	.84	.26	.95
13	.47	.91	.92	.43	.61	.74	.71	.75	.53	.82	.26	.95
14	.45	.94	.83	.40	.56	.83	.71	.55	.49	.78	.25	.95
15	.44	.96	.73	.40	.48	.92	.69	.35	.45	.76	.23	.95
16	17.43	17.99	19.66	19.41	21.38	23.98	25.68	23.15	19.42	18.73	18.21	17.93
17	.40	18.11	.70	.39	.28	24.05	.65	22.93	.37	.72	.20	.92
18	.40	.06	.95	.41	.23	.12	.61	.70	.34	.70	.18	.90
19	.40	.14	20.12	.88	.27	.20	.58	.47	.29	.67	.17	.69
20	.37	.26	.13	20.29	.39	.27	.53	.27	.27	.63	.16	.87
21	17.38	18.37	20.06	20.33	21.68	24.36	25.60	22.08	19.23	18.61	18.15	17.86
22	.41	.44	19.95	.36	.78	.43	.58	21.90	.21	.60	.14	.85
23	.44	.42	.84	.38	.80	.50	.60	.75	.17	.57	.14	.83
24	.44	.35	.71	.48	.85	.55	.59	.53	.15	.55	.12	.82
25	.46	.30	.56	.58	22.02	.60	.57	.37	.13	.54	.11	.80
26	17.55	18.25	19.41	20.60	22.25	24.66	25.55	21.21	19.10	18.52	18.10	17.79
27	.68	.32	.25	.60	.67	.72	.54	.08	.07	.50	.09	.78
28	.70	.45	.12	.56	.91	.79	.52	20.95	.05	.48	.08	.78
29	.65	.75	18.96	.46	23.04	.85	.50	.81	.08	.47	.77	.77
30	.61	19.08	19.27	.31	.13	.93	.47	.65	.18	.45	.76	.76
31		.13		.17	.21		.42		.27	.44		.75
Mean	17.51	18.09	19.69	19.91	21.45	23.99	25.51	23.13	19.52	18.76	18.24	17.91
Max.	17.70	19.15	20.13	20.60	23.21	24.93	25.71	25.35	20.48	19.30	18.42	18.07
Min.	17.37	17.50	18.96	19.39	20.02	23.29	25.02	20.65	19.05	18.44	18.08	17.75

WATER YEAR 1961 : Max. 25.71 m. Min. 17.37 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	64	70	536	593	625	2,167	3,698	3,988	762	381	159	95
2	64	64	593	611	613	2,197	3,732	3,853	698	362	155	94
3	64	63	602	593	628	2,234	3,812	3,716	658	337	153	91
4	66	76	605	527	643	2,249	3,907	3,577	622	320	149	90
5	66	96	547	522	731	2,257	3,995	3,428	589	307	145	88
6	66	109	511	555	747	2,249	4,076	3,300	566	292	143	87
7	69	111	476	570	776	2,204	4,175	3,169	542	287	137	86
8	71	113	460	555	847	2,197	4,262	3,039	516	280	135	84
9	74	113	525	525	917	2,212	4,428	2,910	496	275	133	84
10	76	114	582	495	1,021	2,265	4,480	2,775	477	270	132	82
11	67	118	622	468	1,089	2,272	4,628	2,698	461	263	128	79
12	62	125	628	465	1,149	2,380	4,691	2,570	445	260	126	79
13	57	130	619	471	1,161	2,516	4,712	2,355	433	256	126	79
14	54	135	593	463	1,141	2,588	4,712	2,207	421	246	125	79
15	53	142	564	463	1,109	2,661	4,664	2,075	410	241	121	79
16	52	148	536	465	1,070	2,711	4,593	1,946	401	234	118	77
17	48	169	547	460	1,032	2,773	4,521	1,812	387	232	116	75
18	48	153	619	500	1,014	2,800	4,474	1,683	379	227	115	73
19	48	168	670	634	1,028	2,819	4,428	1,560	365	216	113	72
20	45	190	667	760	1,085	2,874	4,384	1,458	359	206	111	69
21	46	212	647	772	1,203	2,959	4,473	1,367	348	202	109	68
22	50	226	613	750	1,246	3,024	4,428	1,287	342	199	108	67
23	53	216	582	722	1,254	3,109	4,474	1,231	332	193	108	65
24	53	202	544	753	1,277	3,195	4,450	1,156	327	188	104	64
25	56	192	503	785	1,357	3,282	4,428	1,101	322	186	103	61
26	67	182	463	808	1,505	3,340	4,406	1,047	315	181	101	60
27	87	186	434	808	1,746	3,400	4,384	999	307	176	98	59
28	90	206	400	779	1,901	3,471	4,340	934	302	172	97	59
29	82	237	359	747	1,989	3,534	4,296	881	322	170	97	58
30	76	312	447	700	2,051	3,620	4,230	824	348	166	95	58
31		405		658	2,108		4,140		373	164		57
Total	1,874	4,983	16,494	18,977	36,063	81,559	134,421	64,946	13,625	7,489	3,468	2,318
Mean	62.4	161	550	612	1,165	2,719	4,336	2,165	439	241	124	74.7
Max.	90	405	670	808	2,108	3,620	4,712	3,988	762	381	159	95
Min.	45	63	359	460	613	2,167	3,698	824	302	164	97	57
Runoff - BCM	161.914	430.531	1,425.082	1,639.613	3,115.843	7,046.698	11,613.974	5,611.534	1,177.200	647.050	299.635	200.275

WATER YEAR 1961 : Max. 4,712 Min. 45 Mean 1,058 Annual Runoff 33,369.149 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	18.00	25.71	4,712				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHAO PHYA RIVER BASIN

Chao Phya River at Muang Nakhon Sawan (C.2)

Location: Lat 15° - 40' - 15" N, Long 100° - 06' - 45" E, on left bank 2 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.

Drainage Area: 111,435 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +17.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank 20 meters west of gage site.

Elevation: B.M.1 +26.258 m.(M.S.L.) and B.M.2 +26.091 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: 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: Rather unstable, periodic rating curves and shifting adjustment are included for flow computation.

Overbank Flow Conditions: No overbank flow.

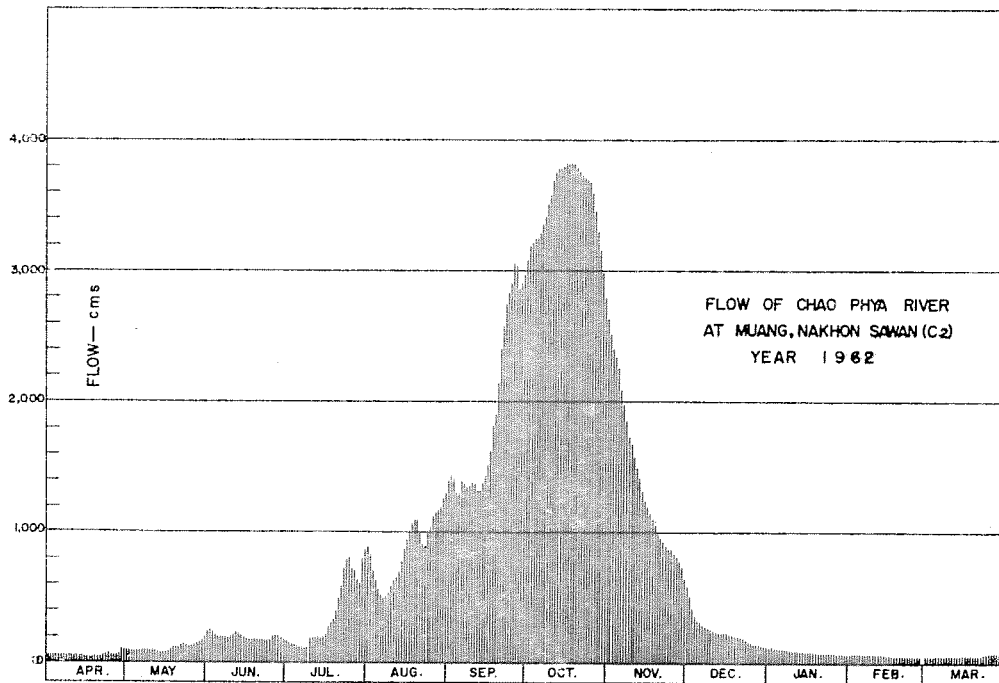
General Description: Records good. The data presented is made by discharge measurements during 1962. Upstream state diversions for irrigation of about 91,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17.75	17.97	18.61	18.31	20.71	21.69	24.44	24.10	19.87	18.21	17.84	17.63
2	.74	.95	.64	.21	.53	.77	.54	23.94	.62	.20	.84	.62
3	.73	.91	.62	.16	.29	.72	.59	.76	.37	.18	.83	.61
4	.73	.89	.54	.14	.06	.63	.63	.59	.23	.16	.85	.60
5	.72	.90	.48	.13	19.85	.63	.65	.38	.12	.15	.84	.60
6	17.71	17.93	18.45	18.08	19.71	21.83	24.71	23.19	19.05	18.13	17.82	17.59
7	.71	.95	.45	.04	.66	.80	.81	22.98	18.99	.12	.80	.59
8	.70	.95	.46	.01	.70	.73	.89	.75	.95	.09	.80	.58
9	.70	.93	.46	.02	.79	.74	25.00	.53	.91	.08	.79	.60
10	.69	.92	.48	.34	.94	.81	.04	.30	.88	.07	.78	.61
11	17.68	17.94	18.56	18.35	20.07	21.79	25.10	22.12	18.84	18.05	17.77	17.62
12	.67	.91	.60	.37	.14	.68	.13	21.95	.81	.03	.77	.61
13	.67	.86	.55	.38	.27	.69	.15	.79	.79	.02	.76	.61
14	.64	.78	.50	.36	.45	.82	.15	.59	.76	.01	.75	.61
15	.63	.76	.43	.37	.59	.95	.16	.45	.73	.60	.75	.61
16	17.62	17.80	18.39	18.49	20.65	22.08	25.18	21.33	18.69	18.00	17.74	17.62
17	.60	.85	.34	.70	.82	.29	.19	.23	.66	17.99	.73	.64
18	.61	.91	.33	.84	.95	.55	.19	.13	.64	.97	.72	.65
19	.62	.97	.33	.98	21.01	.73	.19	.03	.62	.96	.70	.65
20	.61	18.01	.32	19.17	.03	23.12	.19	.95	.60	.96	.69	.64
21	17.63	18.02	18.31	19.45	20.93	23.53	25.18	20.88	18.58	17.95	17.69	17.69
22	.65	.07	.32	.77	.74	.79	.18	.82	.55	.95	.68	.64
23	.69	.15	.33	20.17	.71	24.01	.15	.73	.47	.93	.67	.68
24	.71	.13	.31	.35	.92	.18	.11	.66	.42	.92	.67	.77
25	.69	.09	.32	.40	21.05	.27	.07	.59	.38	.91	.66	.81
26	17.68	18.09	18.45	20.16	21.15	24.32	24.99	20.52	18.34	17.90	17.66	17.86
27	.69	.12	.50	.13	.21	.30	.90	.47	.32	.89	.65	.83
28	.77	.18	.48	19.92	.26	.27	.76	.39	.30	.89	.64	.83
29	.97	.24	.41	.82	.38	.32	.63	.24	.28	.88		.81
30	.96	.31	.35	20.38	.50	.36	.45	.07	.24	.85		.81
31		.46		.63	.55		.28		.22	.84		.61
Mean	17.70	18.00	18.44	18.99	20.60	22.68	24.92	21.78	18.75	18.01	17.75	17.67
Max.	17.97	18.46	18.64	20.63	21.55	24.36	25.19	24.10	19.87	18.21	17.85	17.86
Min.	17.60	17.76	18.31	18.01	19.66	21.63	24.28	20.07	18.22	17.84	17.64	17.58

WATER YEAR 1962 : Max. 25.19 m. Min. 17.58 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	57	98	234	168	899	1,390	3,076	2,622	588	123	66	51
2	56	95	241	150	827	1,430	3,183	2,510	501	121	67	51
3	54	87	236	141	707	1,405	3,208	2,392	418	117	66	49
4	54	84	217	136	626	1,290	3,236	2,331	351	113	67	49
5	53	87	200	134	556	1,290	3,236	2,242	321	111	67	49
6	51	93	194	123	511	1,390	3,282	2,082	302	108	65	48
7	51	96	194	115	495	1,375	3,357	1,966	286	106	63	48
8	50	96	196	108	508	1,340	3,414	1,847	276	100	63	47
9	50	93	196	110	537	1,345	3,510	1,736	266	98	62	49
10	49	91	200	182	586	1,380	3,580	1,666	258	95	62	49
11	49	95	219	184	629	1,370	3,689	1,576	247	92	61	50
12	47	89	229	189	653	1,315	3,750	1,493	240	89	61	49
13	47	82	217	191	700	1,320	3,775	1,415	234	87	61	49
14	43	73	205	187	764	1,370	3,775	1,317	227	86	60	49
15	42	73	189	189	871	1,436	3,787	1,250	227	84	60	49
16	41	80	180	217	937	1,503	3,812	1,194	227	84	59	50
17	39	89	175	267	1,008	1,613	3,812	1,148	219	83	58	52
18	40	100	173	301	1,063	1,805	3,812	1,102	214	80	57	53
19	41	113	173	336	1,089	1,908	3,812	1,058	210	79	55	53
20	40	119	171	390	1,098	2,143	3,780	1,449	205	79	54	52
21	42	117	168	483	987	2,400	3,750	957	200	78	54	56
22	49	123	171	586	907	2,578	3,720	931	193	78	53	52
23	60	141	173	725	895	2,740	3,705	893	176	76	53	55
24	63	130	168	790	983	2,822	3,690	863	165	74	53	62
25	60	123	171	809	1,037	2,890	3,662	863	157	72	52	66
26	58	123	200	721	1,116	3,043	3,584	854	149	71	52	70
27	60	130	205	710	1,144	3,027	3,449	813	146	70	53	67
28	69	143	200	636	1,167	2,859	3,283	780	142	70	52	67
29	102	157	184	602	1,195	2,898	3,146	722	136	69	66	66
30	96	173	173	786	1,251	2,970	2,979	658	128	67	66	66
31		198		867	1,295		2,787		125	66		66
Total	1,613	3,391	5,852	11,533	27,041	57,645	108,641	42,710	7,534	2,726	1,656	1,689
Mean	53.7	109	195	372	872	1,921	3,504	1,424	243	87.9	59.1	54.4
Max.	102	198	241	867	1,295	3,043	3,812	2,622	588	123	67	70
Min.	39	73	168	108	495	1,290	2,787	658	125	66	52	47
Runoff - BCM.	139.363	292.982	505.613	996.451	2,336.342	4,980.528	9,386.588	3,690.144	650.938	235.526	143.078	145.930

WATER YEAR 1962 : Max. 3,812 Min. 39 Mean 745 Annual Runoff 23,503.478 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 17	18.00	25.20	3,812				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.7)

Location: Lat $14^{\circ} - 35' - 05''$ N, Long $100^{\circ} - 27' - 12''$ E, on left bank in front of the police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m.(M.S.L.) Prior to Apr. 4, 1966, adjusted staff gage at datum +0.90 m.(M.S.L.)

Bench Mark: B.M. - C.7

Location: On left bank in front of Muang Ang Thong Police Station.
Elevation: +6.569 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: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

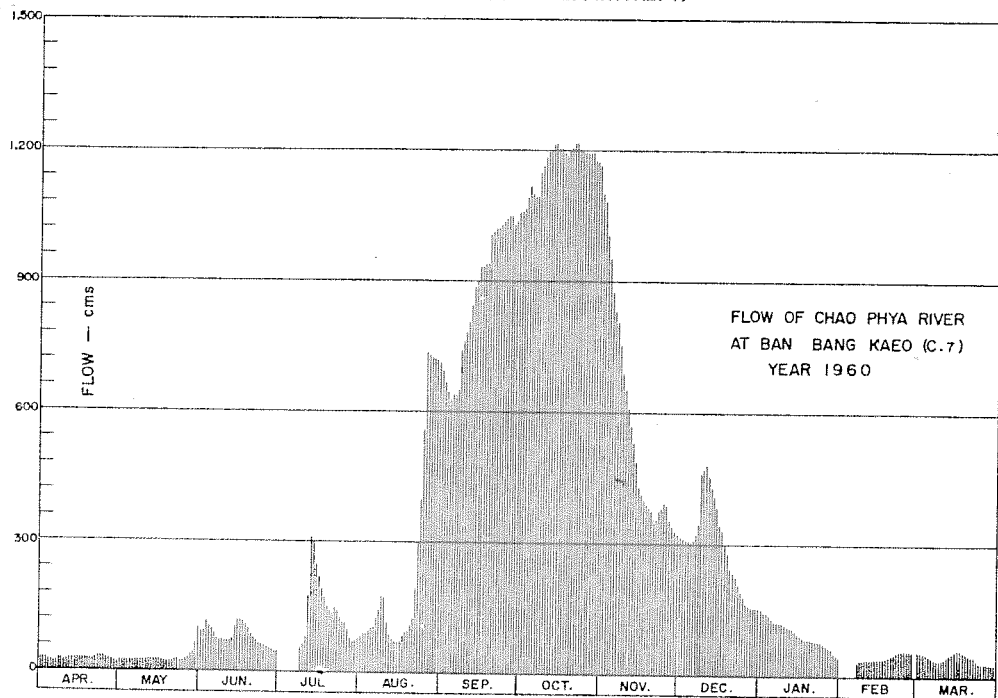
Remarks: No gage height record for periods Jul. 1 - 8, 1960 and Feb. 1 - 7, 1961 and estimated discharge for those periods.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.10	1.04	1.94		1.85	5.32	6.19	6.24	3.60	2.50		1.51
2	.09	.06	.98		.93	.22	.20	.22	.59	.44		.49
3	.07	.07	2.22		.93	.14	.23	.12	.57	.43		.47
4	.03	.05	.12		2.00	.06	.26	.04	.57	.38		.44
5	0.99	.04	.03		.06	.11	.24	5.90	.55	.32		.39
6	0.96	1.04	1.91		2.17	5.11	6.23	5.76	3.56	2.26		1.35
7	.96	.06	.79		.28	.16	.23	.69	.66	.25		.29
8	1.10	.06	.75		.43	.47	.29	.51	.80	.25	1.24	.25
9	.12	.06	.75	1.53	.70	.54	.31	.30	4.35	.24	.24	.25
10	0.96	.06	.74	.61	.68	.61	.33	.16	.40	.23	.26	.24
11	1.05	1.07	1.74	1.83	2.19	5.69	6.34	4.99	4.45	2.17	1.26	1.29
12	.10	.07	.73	2.70	1.90	.83	.34	.82	.34	.14	.26	.36
13	.12	.08	.76	3.59	.78	.92	.36	.66	.21	.12	.26	.41
14	.12	.09	2.09	.51	.73	.95	.36	.46	.10	.05	.27	.48
15	.12	.09	.24	.21	.69	6.01	.35	.20	3.96	1.99	.28	.54
16	1.11	1.09	2.24	3.03	1.71	6.01	6.35	4.13	3.77	1.94	1.29	1.56
17	.09	.08	.21	2.83	.89	.03	.34	.05	.69	.91	.29	.58
18	.07	.03	.13	.71	.96	.03	.33	.01	.57	.86	.32	.54
19	.06	0.96	.03	.52	.98	.12	.34	3.96	.39	.86	.35	.48
20	.10	1.02	1.91	.42	2.10	.13	.35	.92	.18	.85	.38	.42
21	1.14	1.05	1.79	2.38	2.24	6.14	6.36	3.83	3.11	1.85	1.44	1.38
22	.22	.10	.73	.48	.83	.14	.36	.83	.02	.84	.49	.38
23	.22	.11	.64	.43	3.52	.15	.35	.92	2.94	.82	.52	.24
24	.22	.04	.61	.29	4.05	.16	.34	.96	.82	.78	.55	.19
25	.20	.08	.58	.21	.78	.17	.34	4.02	.73	.74	.55	.14
26	1.16	1.14	1.54	2.19	5.45	6.18	6.34	3.98	2.61	1.69	1.55	1.10
27	.13	.17	.51	.04	.44	.18	.34	.82	.57	.65	.54	.09
28	.06	.29	.48	1.83	.42	.15	.34	.74	.54	.59	.54	.08
29	.01	.38	.41	.72	.42	.16	.32	.68	.52	.44		.07
30	0.97	.61	.41	.75	.40	.19	.32	.64	.52	.39		.08
31		2.07		.80	.38		.31		.52	.34		.16
Mean	1.09	1.13	1.83		2.93	5.81	6.31	4.65	3.43	1.98		1.33
Max.	1.22	2.07	2.24		5.45	6.19	6.36	6.24	4.45	2.50		1.58
Min.	0.96	0.96	1.41		1.69	5.06	6.19	3.64	2.52	1.34		1.07

WATER YEAR 1960 : Max. 6.36 m. Min. 0.96 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	28	25	91	45	83	694	1,057	1,101	314	151	42	55
2	28	26	94	45	90	666	1,065	1,083	312	144	41	53
3	27	27	118	47	90	645	1,092	1,005	309	143	40	52
4	25	26	108	48	96	625	1,119	950	309	137	40	50
5	23	25	99	50	102	638	1,101	875	306	129	39	46
6	21	25	88	51	113	638	1,092	829	307	123	39	43
7	21	26	77	52	125	651	1,092	807	325	122	37	39
8	28	26	74	53	143	739	1,146	751	350	122	36	37
9	29	26	74	56	176	760	1,165	688	461	120	36	37
10	21	26	73	63	173	781	1,185	651	471	119	38	39
11	26	27	73	81	115	807	1,195	608	482	113	38	39
12	28	27	72	176	87	852	1,195	567	458	110	38	44
13	29	27	75	312	76	885	1,215	529	431	108	38	48
14	29	28	105	299	72	900	1,215	484	408	101	38	53
15	29	26	120	250	69	931	1,205	429	380	95	39	57
16	29	28	120	223	71	931	1,205	413	345	91	39	59
17	28	27	117	193	86	944	1,195	398	330	88	39	60
18	27	25	109	177	92	944	1,185	390	299	83	41	57
19	26	21	99	153	94	1,005	1,195	380	278	83	43	53
20	28	24	88	141	106	1,013	1,205	373	245	83	46	48
21	30	26	77	131	120	1,020	1,215	356	235	83	50	46
22	35	28	72	149	193	1,020	1,215	356	225	82	53	46
23	35	29	65	143	300	1,028	1,205	373	209	80	56	36
24	35	25	63	126	398	1,035	1,195	380	192	76	58	33
25	34	27	60	117	557	1,043	1,195	392	180	73	58	30
26	32	30	57	115	733	1,050	1,195	384	163	69	58	28
27	30	32	55	100	730	1,050	1,195	354	159	66	57	27
28	26	39	53	81	724	1,028	1,195	339	156	61	57	27
29	24	46	48	72	724	1,035	1,175	328	153	50	50	26
30	22	63	48	74	718	1,058	1,175	321	153	46	46	27
31		103		78	712		1,165		153	43		32
Total	833	968	2,472	3,701	7,968	26,416	36,249	16,894	9,098	2,994	1,234	1,324
Mean	27.7	31.2	82.4	119	257	881	1,169	563	293	96.5	44.1	42.7
Max.	35	103	120	312	733	1,058	1,215	1,101	482	151	58	60
Min.	21	21	48	45	69	625	1,057	321	153	43	36	26
Runoff - mcm.	71.971	83.635	213.581	319.766	688.435	2,282.342	3,313.914	1,459.642	785.722	258.682	106.618	114.394

WATER YEAR 1960 : Max. 1,215 Min. 21 Mean 302 Annual Runoff 9,517.046 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	18.00	6.36	1,215				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.?)

Location: Lat $14^{\circ} - 35' - 05''$ N, Long $100^{\circ} - 27' - 12''$ E, on left bank in front of the police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m.(M.S.L.) Prior to Apr. 4, 1966, adjusted staff gage at datum +0.90 m.(M.S.L.)

Bench Mark: B.M. - C.7

Location: On left bank in front of Muang Ang Thong Police Station.
Elevation: +6.569 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: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

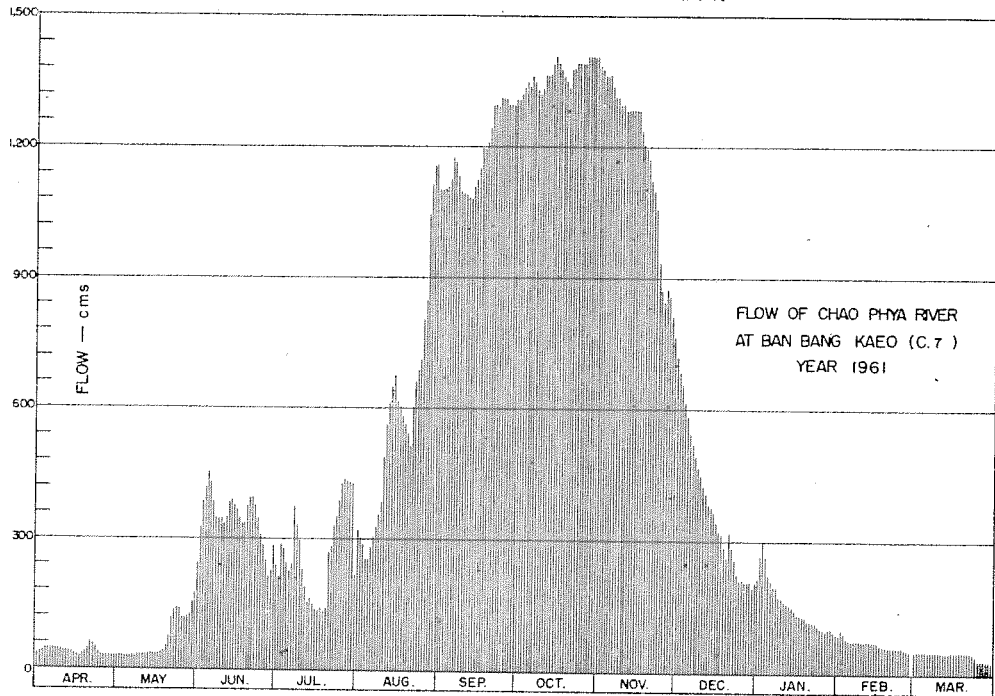
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.21	1.16	3.17	3.12	3.64	6.24	6.44	6.50	5.40	2.99	1.88	1.42
2	.25	.15	.68	2.96	.55	.24	.45	.49	.27	3.36	2.02	.42
3	.30	.15	.99	3.43	.45	.24	.46	.48	.20	.51	1.93	.41
4	.38	.14	4.15	.38	.24	.25	.47	.48	.03	.50	.80	.41
5	.37	.13	.32	.16	.24	.27	.46	.48	4.91	.04	.72	.41
6	1.36	1.12	4.19	3.06	3.42	6.32	6.48	6.46	4.71	2.94	1.71	1.40
7	.36	.13	.00	.19	.57	.31	.47	.44	.62	.86	.74	.40
8	.35	.17	3.79	.92	.69	.27	.46	.44	.52	.84	.74	.40
9	.34	.20	.66	.70	.86	.24	.45	.43	.38	.71	.74	.40
10	.34	.20	.66	.48	.99	.23	.46	.43	.28	.65	.73	.40
11	1.32	1.22	3.72	3.08	4.50	6.23	6.48	6.42	4.18	2.58	1.73	1.40
12	.31	.23	.79	2.79	.84	.22	.48	.42	.04	.55	.72	.39
13	.29	.23	.98	.53	5.02	.22	.49	.42	3.97	.52	.71	.39
14	.25	.23	4.01	.61	.19	.25	.50	.42	.93	.46	.71	.39
15	.20	.24	3.95	.49	.25	.27	.51	.42	.89	.42	.71	.39
16	1.14	1.24	3.90	2.40	5.02	6.30	6.50	6.42	3.75	2.34	1.67	1.40
17	.12	.26	.79	.37	4.97	.34	.49	.38	.64	.33	.61	.40
18	.20	.28	.72	.43	.87	.34	.48	.35	.60	.32	.58	.41
19	.31	.36	.72	.37	.81	.36	.47	.34	.42	.30	.55	.41
20	.40	.49	.94	.41	.72	.39	.46	.31	.28	.23	.55	.41
21	1.61	1.80	4.02	3.35	4.60	6.43	6.49	6.26	3.62	2.21	1.55	1.40
22	.54	2.25	.02	.42	5.00	.43	.49	.24	.43	.18	.54	.39
23	.41	.36	3.94	.69	.22	.43	.50	.19	.25	.17	.54	.36
24	.30	.43	.77	.84	.31	.44	.50	.02	.03	.11	.53	.31
25	.19	.41	.59	4.01	.42	.44	.50	5.89	2.95	.03	.51	.14
26	1.14	2.23	3.43	4.19	5.67	6.44	6.50	5.82	2.95	2.02	1.49	1.14
27	.14	.21	.22	.23	.82	.43	.51	.89	.94	1.99	.45	.11
28	.14	.25	2.99	.23	6.17	.43	.51	.84	.91	2.05	.42	.09
29	.14	.29	3.08	.20	.26	.43	.51	.72	.93	.04	.08	.08
30	.14	.50	.42	.20	.30	.44	.51	.56	.82	.00	.06	.06
31		.69		3.00	.30		.51		.92	1.90		.05
Mean	1.22	1.60	3.63	3.26	4.74	6.33	6.48	6.26	3.86	2.48	1.66	1.33
Max.	1.61	2.69	4.32	4.23	6.30	6.44	6.51	6.50	5.40	3.51	2.02	1.42
Min.	1.14	1.12	2.99	2.37	3.24	6.22	6.44	5.56	2.82	1.90	1.42	1.05

WATER YEAR 1961 : Max. 6.51 m. Min. 1.05 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35	32	243	236	321	1,101	1,309	1,390	718	216	85	48
2	37	31	328	212	305	1,101	1,322	1,376	680	274	98	48
3	40	31	386	285	288	1,101	1,336	1,363	661	300	90	48
4	46	30	418	277	254	1,110	1,349	1,363	617	264	78	48
5	45	30	454	242	254	1,128	1,336	1,363	588	224	72	48
6	44	29	427	227	283	1,175	1,363	1,336	540	209	71	47
7	44	30	388	246	309	1,165	1,349	1,309	520	197	73	47
8	43	32	348	373	330	1,128	1,336	1,309	494	195	73	47
9	43	34	345	332	361	1,101	1,322	1,295	467	173	73	47
10	43	34	345	294	386	1,092	1,336	1,295	446	169	72	47
11	41	35	336	230	492	1,092	1,363	1,282	425	161	72	47
12	41	36	348	188	572	1,083	1,363	1,282	396	157	72	46
13	39	36	384	155	615	1,083	1,376	1,282	382	153	71	46
14	37	36	390	163	658	1,110	1,390	1,282	375	146	71	46
15	34	36	378	150	674	1,128	1,405	1,282	367	141	71	46
16	30	36	369	139	615	1,155	1,390	1,282	341	132	68	47
17	29	38	348	135	603	1,195	1,376	1,235	321	131	68	47
18	34	39	336	143	579	1,195	1,363	1,205	314	129	60	48
19	41	44	336	135	564	1,215	1,349	1,195	283	127	58	48
20	47	53	377	140	543	1,245	1,336	1,165	261	119	58	48
21	63	78	392	272	515	1,295	1,376	1,119	318	117	58	47
22	57	121	392	283	610	1,295	1,376	1,101	285	114	57	46
23	48	134	377	330	664	1,295	1,390	1,057	256	113	57	44
24	40	143	345	358	691	1,309	1,390	937	225	107	56	41
25	33	140	312	390	724	1,309	1,390	872	210	99	55	30
26	30	119	285	427	800	1,309	1,390	849	210	98	53	30
27	30	117	251	435	849	1,295	1,405	872	209	95	50	29
28	30	121	216	435	1,042	1,295	1,405	855	204	101	48	27
29	30	126	230	429	1,119	1,295	1,405	816	207	100		27
30	30	151	283	429	1,155	1,309	1,405	766	192	96		26
31		175		218	1,155		1,405		206	87		25
Total	1,184	2,127	10,367	8,308	18,330	35,709	42,406	35,135	11,718	4,744	1,883	1,316
Mean	39.5	68.6	345	268	591	1,190	1,368	1,171	378	153	67.2	42.4
Max.	63	175	454	435	1,155	1,309	1,405	1,390	718	300	98	48
Min.	29	29	216	135	254	1,083	1,309	766	192	87	48	25
Runoff - mcm.	102.298	183.773	895.709	717.811	1,583.712	3,085.258	3,663.878	3,035.664	1,012.435	409.882	162.691	113.702

WATER YEAR 1961 : Max. 1,405 Min. 25 Mean 474 Annual Runoff 14,966.813 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 27	06.00	6.51	1,405				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.7)

Location: Lat $14^{\circ} - 35' - 05''$ N, Long $100^{\circ} - 27' - 12''$ E, on left bank in front of the police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m.(M.S.L.) Prior to Apr.4,1966, adjusted staff gage at datum +0.90 m.(M.S.L.)

Bench Mark: B.M. - C.7

Location: On left bank in front of Muang Ang Thong Police Station.
Elevation: +6.569 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: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

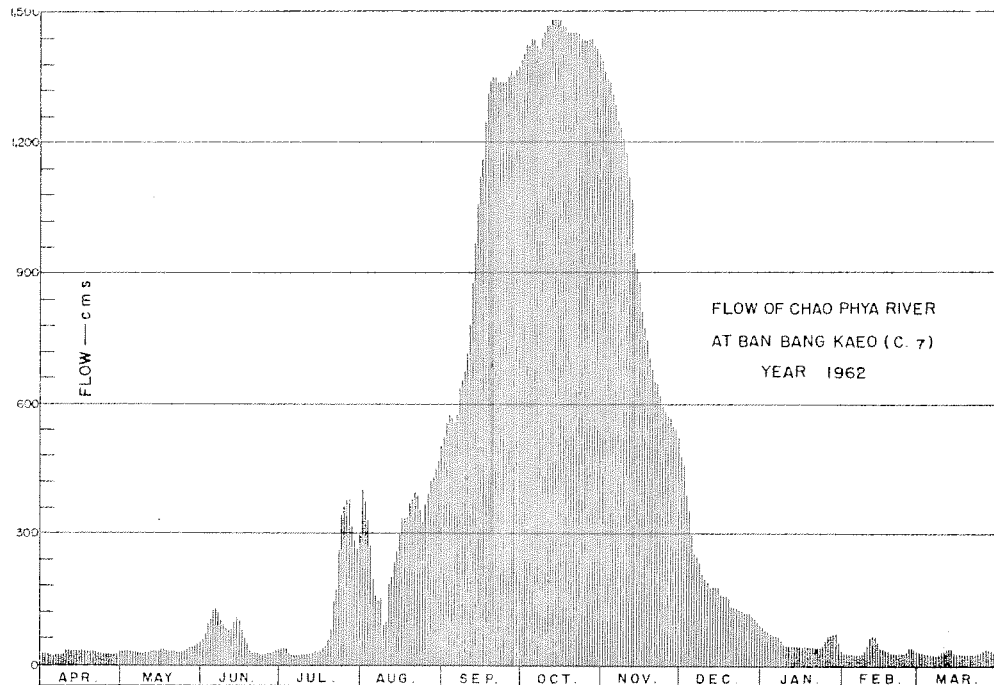
Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.02	1.14	1.58	1.23	4.06	4.63	6.50	6.50	4.43	1.88	1.08	1.14
2	0.99	.14	.83	.25	3.92	.77	.51	.48	.34	.81	.07	1.10
3	.96	.14	.99	.27	.69	.85	.52	.47	.01	.77	.06	.04
4	.96	.14	2.18	.04	.34	.82	.52	.46	3.81	.73	.06	.02
5	.96	.12	.28	.00	2.86	.79	.53	.44	.49	.68	.06	.00
6	0.97	1.09	2.31	1.00	2.59	4.84	6.53	6.42	3.24	1.66	1.07	1.00
7	.97	.05	.22	.00	.47	5.10	.52	.39	.19	.64	.07	.01
8	.97	.04	.05	.00	.51	.17	.51	.38	.11	.54	.09	.03
9	.99	.02	1.93	.00	1.97	.25	.53	.36	2.93	.40	.24	.10
10	1.15	.07	.84	.00	2.02	.39	.54	.32	.84	.37	.40	.17
11	1.15	1.09	1.78	1.02	2.76	5.61	6.55	6.26	2.79	1.36	1.64	1.24
12	.15	.12	.85	.04	.89	.91	.55	.20	.69	.35	.66	.24
13	.15	.14	2.02	.07	3.11	6.06	.56	.03	.73	.35	.65	.24
14	.14	.15	.10	.15	.30	.19	.56	5.97	.72	.35	.46	.12
15	.14	.17	.04	.14	.51	.26	.56	.91	.69	.34	.28	.05
16	1.14	1.20	1.81	1.17	3.72	6.31	6.56	5.70	2.58	1.34	1.23	1.05
17	.14	.20	.55	.28	.72	.39	.55	.58	.57	.34	.19	.04
18	.13	.16	.38	.36	.74	.44	.55	.49	.55	.33	.16	.04
19	.11	.14	.14	.57	.91	.46	.54	.34	.52	.33	.12	.04
20	.11	.14	.07	.81	.98	.47	.54	.25	.34	.35	.07	.04
21	1.09	1.13	1.07	2.45	4.03	6.47	6.54	5.15	2.34	1.32	1.05	1.02
22	.07	.13	.05	.68	.01	.46	.54	.14	.32	.32	.06	.02
23	.03	.12	.02	3.31	3.82	.46	.54	.04	.29	.32	.07	.06
24	0.99	.10	0.97	.77	.64	.46	.53	4.93	.27	.38	.08	.12
25	.97	.16	.99	.87	.91	.46	.53	.87	.24	.53	.25	.19
26	0.97	1.22	1.07	3.95	4.02	6.47	6.53	4.83	2.24	1.68	1.32	1.20
27	.96	.28	.08	.96	.16	.48	.53	.80	.21	.70	.30	.20
28	.96	.32	.10	.62	.20	.47	.53	.73	.16	.73	.23	.19
29	1.02	.35	.17	.43	.30	.48	.52	.71	.11	.71	.44	.11
30	.09	.39	.20	.30	.39	.49	.52	.64	.04	.44	.44	.06
31		.46		.49	.54		.51		1.95	.18		.04
Mean	1.05	1.16	1.59	1.97	3.52	5.88	6.53	5.69	2.76	1.40	1.21	1.10
Max.	1.15	1.46	2.51	3.96	4.54	6.49	6.56	6.50	4.43	1.88	1.66	1.24
Min.	0.96	1.02	0.97	1.00	1.97	4.63	6.50	4.64	1.95	1.18	1.05	1.00

WATER YEAR 1962 : Max. 6.56 m. Min. 1.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	24	30	60	36	400	522	1,390	1,390	477	85	27	30
2	23	30	81	37	373	535	1,405	1,365	458	79	26	28
3	21	30	95	38	330	574	1,420	1,349	390	76	26	25
4	21	30	114	25	270	567	1,420	1,336	352	72	26	24
5	21	29	125	23	197	560	1,435	1,309	295	68	26	23
6	22	27	128	23	162	572	1,435	1,282	254	67	26	23
7	22	25	118	23	147	635	1,420	1,245	246	65	26	23
8	22	25	101	23	152	653	1,405	1,235	234	57	27	24
9	23	24	90	23	95	674	1,435	1,215	207	47	36	28
10	31	26	82	23	98	715	1,450	1,175	195	45	47	32
11	31	27	76	24	184	781	1,465	1,119	188	44	65	36
12	31	29	82	25	202	880	1,465	1,065	175	43	67	36
13	31	30	98	26	234	964	1,480	944	180	43	66	36
14	30	31	106	31	264	1,057	1,480	909	179	43	51	29
15	30	32	100	30	299	1,119	1,480	880	175	43	39	25
16	30	34	79	32	336	1,165	1,480	810	161	43	36	25
17	30	34	58	39	336	1,245	1,465	772	159	43	33	25
18	30	32	46	44	339	1,309	1,465	745	157	42	32	25
19	29	30	30	60	371	1,336	1,450	700	153	42	29	25
20	29	30	26	79	364	1,349	1,450	674	132	42	26	25
21	27	30	26	145	394	1,349	1,450	648	132	41	25	24
22	26	30	25	173	390	1,336	1,450	645	129	41	26	24
23	24	29	24	266	354	1,336	1,450	620	126	41	26	26
24	23	28	22	345	321	1,336	1,435	593	124	46	27	29
25	22	32	23	363	371	1,336	1,435	579	120	56	37	33
26	22	35	26	378	392	1,349	1,435	569	120	68	41	34
27	21	39	27	380	421	1,363	1,435	562	117	70	40	34
28	23	41	28	318	429	1,349	1,435	545	112	72	36	33
29	24	43	32	285	450	1,363	1,420	540	107	71	29	29
30	27	46	34	264	469	1,376	1,420	524	100	50	26	26
31	51	51	295	501	501	1,405	1,405	91	91	33	25	25
Total	770	989	1,962	3,876	9,663	30,725	44,665	27,342	6,045	1,678	995	864
Mean	25.7	31.9	65.4	125	312	1,024	1,441	911	195	54.1	35.5	27.9
Max.	31	51	128	360	501	1,376	1,480	1,390	477	85	67	36
Min.	21	24	22	23	95	522	1,390	524	91	33	25	23
Runoff - BCM.	66.528	85.450	169.517	334.886	834.883	2,654.646	3,859.056	2,362.349	522.288	144.979	85.968	74.650

WATER YEAR 1962 : Max. 1,480 Min. 21 Mean 355 Annual Runoff 1,195.194 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	06.00	6.56	1,480				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat 19° - 09' - 57" N, Long 100° - 11' - 32" E, on left bank 1,500 meters downstream from Chao Phya Diversion Dam, Amphoe Sanphaya, Chai Nat.

Drainage Area: 120,693 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 m.(M.S.L.) Prior to Mar.11,1966 adjusted staff gage at datum +6.50 m.(M.S.L.)

Bench Mark: B.M. - C.13

Location: On left bank 5 meters from B.M. - H.S./R.I.D. No.1
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: 1947 - 49, 1951 - 59 and 1961 - 62

Rated by Float: -

Rated by Current Meter: 1947 - 49, 1951 - 59 and 1961 - 62

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

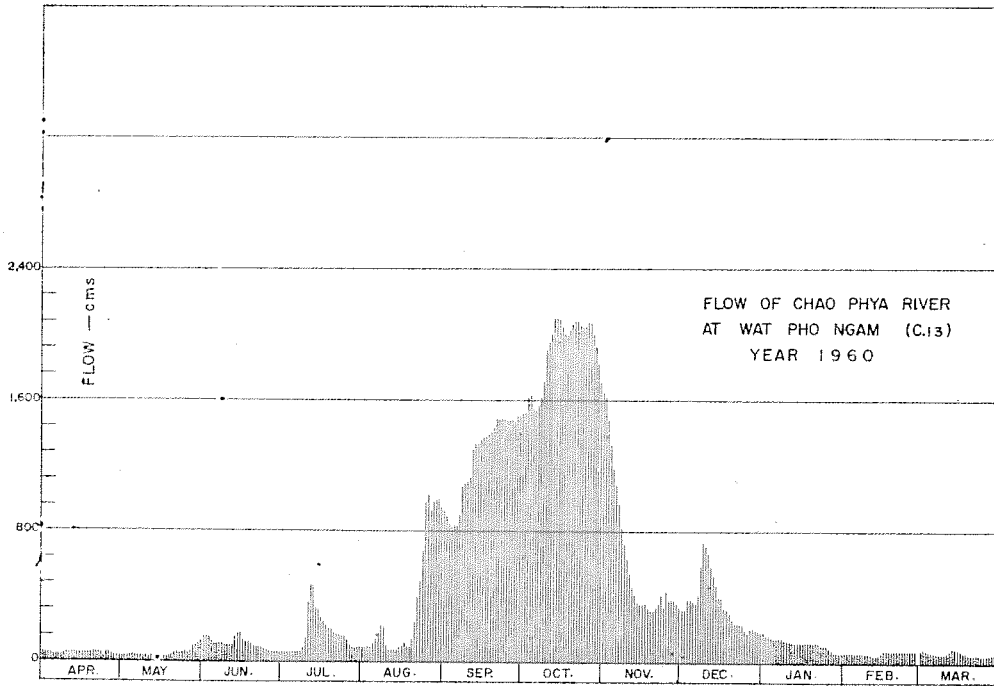
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements during 1959. Flow regulated by Chao Phya Diversion. Upstream state diversion for irrigation of about 979,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.17	6.97	7.99	7.28	7.53	11.16	12.79	13.19	8.85	8.17	7.29	7.35
2	.17	.97	8.03	.28	.54	.05	.79	12.92	.89	.10	.28	.37
3	.16	.97	7.99	.28	.57	10.92	13.09	.67	9.17	.09	.28	.36
4	.15	7.03	.80	.28	.56	.84	.10	.33	.15	.00	.28	.31
5	.02	.03	.71	.30	.69	.88	12.91	11.98	.10	.00	.27	.23
6	7.01	7.01	7.71	7.28	7.96	10.87	12.87	11.64	9.06	8.00	7.27	7.26
7	.01	6.95	.71	.28	8.14	11.32	.96	.31	.33	.00	.27	.20
8	.02	.94	.69	.28	.41	.60	13.09	10.84	10.27	.00	.26	.20
9	.13	.93	.61	.48	.39	.65	.34	.47	.57	7.89	.26	.18
10	.19	.92	.61	8.03	7.66	.69	.75	.19	.46	.89	.26	.18
11	7.19	6.91	7.61	9.11	7.35	11.98	13.87	9.80	10.33	7.87	7.16	7.25
12	.19	.94	.68	.59	.35	12.25	.99	.53	.04	.84	.01	.45
13	.19	.95	8.02	.53	.35	.33	14.16	.34	9.81	.78	.05	.49
14	.19	.90	.10	8.95	.36	.37	.16	.10	.56	.78	.12	.48
15	.18	.90	.19	.90	.53	.39	.15	.05	.22	.76	.26	.46
16	7.18	6.90	7.86	8.70	7.56	12.43	14.07	9.05	9.25	7.76	7.38	7.41
17	.18	.92	.78	.55	.74	.44	13.98	.07	8.92	.76	.37	.11
18	.18	.92	.77	.38	.54	.48	.97	8.97	.88	.81	.37	.10
19	.19	.93	.72	.18	.51	.53	14.03	.89	.81	.81	.37	.08
20	.30	7.13	.58	.18	.97	.63	.09	.83	.61	.81	.37	.07
21	7.31	7.19	7.53	8.14	8.59	12.73	14.13	8.92	8.52	7.80	7.37	7.07
22	.30	.21	.52	.10	9.16	.75	.12	9.05	.51	.78	.37	.07
23	.26	.06	.52	.07	.59	.73	.07	.32	.51	.69	.37	.06
24	.30	.23	.46	.07	10.29	.73	.07	8.96	.47	.66	.37	.06
25	.25	.26	.36	.06	11.27	.72	.07	9.41	.27	.65	.37	.06
26	7.23	7.22	7.34	7.87	11.47	12.72	14.10	9.14	8.17	7.58	7.37	7.06
27	.12	.33	.30	.64	.14	.73	.10	.15	.30	.46	.37	.06
28	.00	.54	.28	.53	.32	.76	.00	.18	.36	.32	.37	.06
29	6.97	.66	.28	.47	.33	.79	13.82	.08	.27	.31	.16	.16
30	.97	.71	.28	.53	.34	.79	.61	8.98	.20	.30	.16	.16
31		.75		.53	.22		.35		.20	.29	.17	.17
Mean	7.16	7.09	7.67	7.99	8.72	12.11	13.70	10.01	9.03	8.77	7.29	7.21
Max.	7.31	7.75	8.19	9.59	11.47	12.79	14.16	13.19	10.57	8.17	7.38	7.49
Min.	6.97	6.90	7.28	7.28	7.35	10.84	12.79	8.83	8.17	7.29	7.01	7.06

WATER YEAR 1960 : Max. 14.16 m. Min. 6.90 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	48	33	149	58	88	924	1,496	1,656	309	178	59	67
2	48	33	155	58	89	886	1,496	1,548	318	165	58	67
3	48	33	149	58	92	846	1,615	1,455	378	163	58	66
4	47	38	120	58	91	818	1,620	1,325	373	150	58	61
5	37	38	109	60	105	832	1,544	1,186	362	150	57	53
6	36	36	109	58	143	829	1,528	1,085	352	150	57	56
7	36	32	109	58	172	976	1,560	972	414	150	57	50
8	37	32	105	58	219	1,070	1,615	818	650	150	56	50
9	46	31	96	82	216	1,087	1,716	707	735	134	56	49
10	49	31	96	155	100	1,097	1,892	628	705	134	56	49
11	49	30	96	364	65	1,198	1,947	530	670	130	48	55
12	49	32	103	478	65	1,295	2,005	462	587	126	36	77
13	49	32	154	462	65	1,325	2,095	416	532	118	40	84
14	49	30	165	330	66	1,327	2,095	362	470	118	46	82
15	49	30	181	320	88	1,337	2,090	350	390	115	56	78
16	49	30	128	276	91	1,362	2,047	350	396	115	68	72
17	49	31	118	242	113	1,365	2,000	354	324	115	67	45
18	49	31	117	214	89	1,383	1,995	334	317	121	67	45
19	49	31	110	180	86	1,400	2,025	318	300	121	67	43
20	60	46	93	180	145	1,435	2,059	305	258	121	67	42
21	61	49	88	172	253	1,475	2,080	324	239	120	67	42
22	60	51	87	165	376	1,482	2,075	350	238	118	67	42
23	56	41	87	159	478	1,475	2,047	412	238	105	67	41
24	30	53	78	159	657	1,475	2,047	332	229	100	67	41
25	55	56	66	158	957	1,471	2,047	432	196	100	67	41
26	53	52	64	130	1,022	1,471	2,065	370	178	93	67	41
27	46	63	60	99	917	1,475	2,065	373	200	78	67	41
28	36	89	58	88	976	1,456	2,010	380	210	62	67	41
29	33	100	58	80	980	1,496	1,925	356	196	61	67	48
30	33	109	58	88	982	1,496	1,850	336	183	60	67	48
31		114	88	88	942		1,720		183	59		48
Total	1,406	1,437	3,166	5,135	10,728	37,564	58,351	18,826	11,130	3,680	1,670	1,665
Mean	46.9	46.3	105	166	346	1,252	1,882	627	359	119	59.6	53.7
Max.	61	114	181	478	1,022	1,496	2,095	1,656	735	178	68	84
Min.	30	30	58	58	65	818	1,496	305	178	59	36	41
Runoff - RCL	121.478	124.157	273.542	443.664	926.899	3,245.530	5,041.526	1,626.566	961.632	317.952	144.288	143.856

WATER YEAR 1960 : Max. 2,095 Min. 30 Mean 424 Annual Runoff 13,371.091 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	18.00	14.16	2,095				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat 19° - 09' - 57" N, Long 100° - 11' - 32" E, on left bank 1,500 meters downstream from Chao Phya Diversion Dam, Amphoe Samphaya, Chai Nat.

Drainage Area: 120,693 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 m.(M.S.L.) Prior to Mar.31,1966 adjusted staff gage at datum +6.50 m.(M.S.L.)

Bench Mark: B.M. - C.13

Location: On left bank 5 meters from B.M. - H.S./R.I.D. No.1
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: 1947 - 49, 1951 - 59 and 1961 - 62

Rated by Float: -

Rated by Current Meter: 1947 - 49, 1951 - 59 and 1961 - 62

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

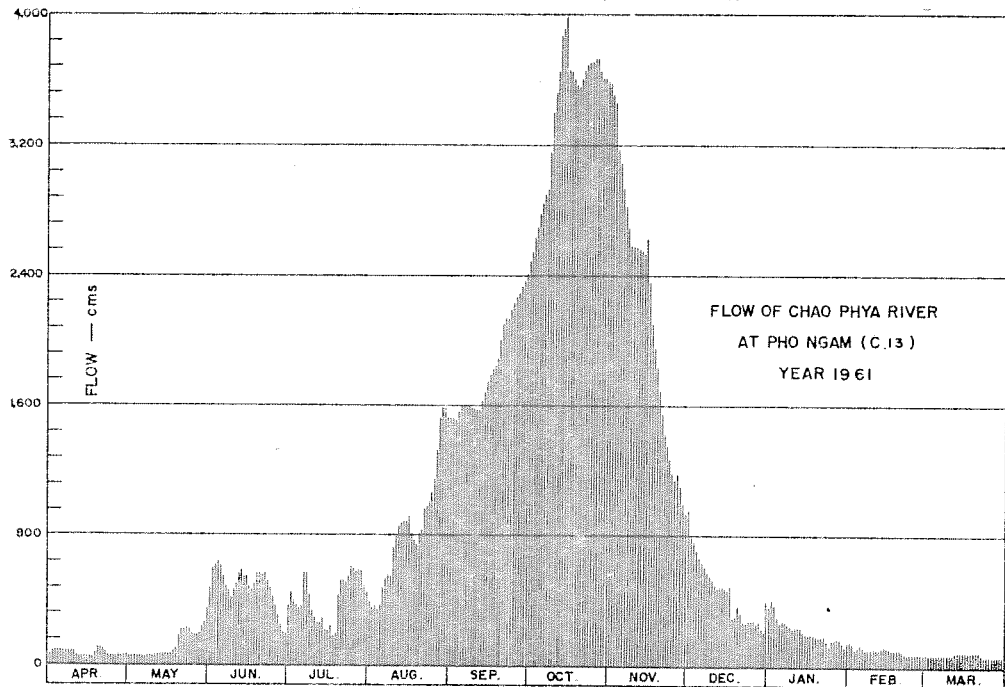
General Description: Records good. The data presented is made by discharge measurements during 1961. Flow regulated by Chao Phya Diversion. Upstream state diversion for irrigation of about 929,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.25	7.17	9.41	8.94	9.06	12.59	14.63	15.81	10.87	8.93	7.86	7.30
2	.39	.17	.82	9.27	8.87	.60	.73	.77	.39	9.15	.79	.30
3	.40	.19	.92	.13	.94	.57	.86	.74	.22	8.97	.53	.30
4	.39	.18	.99	8.94	.83	.69	.97	.53	.07	.67	.60	.30
5	.38	.14	.89	.86	.95	.77	15.08	.45	9.89	.48	.70	.30
6	7.37	7.14	9.69	8.95	9.38	12.78	15.17	15.28	9.79	8.53	7.66	7.30
7	.37	.16	.44	9.75	.61	.78	.23	.14	.70	.52	.52	.30
8	.36	.16	.35	.75	.70	.78	.27	14.96	.57	.47	.54	.30
9	.36	.19	.18	.20	.68	.76	.50	.78	.47	.40	.56	.29
10	.33	.20	.35	8.82	10.29	.73	.70	.77	.43	.33	.56	.29
11	7.14	7.21	9.52	8.63	10.57	12.72	15.78	14.77	9.29	8.33	7.56	7.28
12	.13	.22	.73	.44	.69	.72	.85	.77	.20	.33	.56	.37
13	.13	.23	.78	.47	.77	.86	.93	.73	.20	.33	.63	.43
14	.13	.26	.66	.58	.80	.98	.97	.70	.20	.21	.63	.43
15	.13	.27	.66	.24	.80	13.12	16.00	.86	.16	.11	.62	.43
16	7.13	7.28	9.40	8.22	10.88	13.22	15.85	14.40	8.94	8.11	7.57	7.42
17	.13	.30	.36	.35	.58	.30	.85	13.90	9.42	.11	.55	.41
18	.29	.44	.46	.01	.46	.36	.83	.60	8.63	.08	.53	.41
19	.55	.57	.71	.19	.35	.47	.81	.33	.70	.04	.53	.40
20	.53	8.06	.73	9.21	.62	.71	.80	.60	.99	.04	.53	.40
21	7.49	8.24	9.70	9.56	10.64	13.91	15.83	12.76	9.01	8.04	7.46	7.40
22	.37	.24	.73	.56	11.02	.98	.85	.34	8.74	.04	.33	.30
23	.20	.30	.53	.52	.08	.96	.87	.15	.53	7.92	.32	.21
24	.19	.25	.41	.66	.17	14.08	.88	11.92	.49	.66	.32	.21
25	.19	.10	.19	.84	.33	.17	.88	.57	.54	.94	.32	.21
26	7.18	8.05	8.99	9.85	11.58	14.24	15.89	11.43	8.52	7.94	7.32	7.21
27	.21	.08	.69	.80	12.08	.28	.89	.59	.47	.94	.32	.21
28	.19	.13	.51	.80	.60	.35	.85	.35	.53	.94	.30	.21
29	.20	.35	.15	.78	.77	.40	.83	.01	.31	.80	.21	.21
30	.22	.49	.11	.48	.76	.50	.83	10.82	.20	.66	.21	.21
31		.91		.28	.62		.82		9.08	.80		.21
Mean	7.28	7.63	9.40	9.10	10.63	13.35	15.62	13.74	9.18	8.22	7.52	7.31
Max.	7.55	8.91	9.99	9.85	12.77	14.50	16.00	15.81	10.87	9.15	7.86	7.45
Min.	7.18	7.14	8.11	8.01	8.85	12.57	14.63	10.82	8.20	7.66	7.30	7.21

WATER YEAR 1961 : Max. 16.00 m. Min. 7.14 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	68	58	488	371	400	1,521	2,488	3,570	960	369	155	75
2	87	58	595	453	355	1,525	2,548	3,504	810	423	144	75
3	88	61	623	418	371	1,514	2,626	3,457	760	378	105	75
4	87	60	642	371	347	1,563	2,696	3,175	720	310	115	75
5	85	55	614	353	374	1,597	2,771	3,090	670	270	130	75
6	84	55	558	374	480	1,601	2,841	2,933	640	280	124	75
7	84	57	495	575	538	1,601	2,891	2,817	615	278	104	75
8	83	57	473	575	560	1,601	2,925	2,689	583	268	107	75
9	83	61	430	435	555	1,593	3,140	2,578	560	254	109	74
10	79	62	473	344	732	1,580	3,395	2,572	538	240	109	74
11	55	63	515	302	816	1,576	3,519	2,572	510	240	109	72
12	54	65	569	262	854	1,576	3,650	2,572	490	240	109	84
13	54	66	584	268	880	1,635	3,868	2,548	490	240	120	92
14	54	70	550	291	890	1,686	3,915	2,530	490	216	120	92
15	54	71	550	222	890	1,746	3,985	2,626	480	199	118	91
16	54	72	485	218	916	1,789	3,650	2,355	371	199	111	91
17	54	75	475	244	819	1,825	3,650	2,100	490	199	108	89
18	74	93	500	181	783	1,852	3,610	1,960	302	193	105	89
19	108	111	563	213	750	1,902	3,570	1,839	317	186	105	88
20	105	190	569	438	831	2,010	3,550	1,695	383	186	105	88
21	100	222	560	525	838	2,105	3,610	1,593	388	186	96	88
22	84	222	569	525	962	2,140	3,650	1,427	355	186	79	75
23	62	234	518	515	983	2,130	3,690	1,356	280	165	78	63
24	61	224	488	550	1,015	2,190	3,710	1,272	272	124	78	63
25	61	197	433	601	1,066	2,235	3,710	1,185	282	169	78	63
26	60	184	383	604	1,153	2,270	3,730	1,138	278	169	78	63
27	63	193	315	590	1,330	2,290	3,730	1,190	268	169	78	63
28	61	202	276	590	1,525	2,328	3,650	1,113	280	169	75	63
29	62	244	206	584	1,597	2,355	3,610	1,003	236	145	75	63
30	65	272	199	505	1,593	2,410	3,610	943	215	124	75	63
31	364		455	1,533		3,590		405	145			63
Total	2,173	4,018	14,698	12,952	26,709	55,746	105,578	65,402	14,418	6,919	2,952	2,354
Mean	72.4	130	490	418	861	1,858	3,406	2,180	465	223	105	75.9
Max.	108	364	642	604	1,597	2,410	3,985	3,570	960	423	155	92
Min.	60	55	199	181	347	1,514	2,488	943	215	124	75	63
Runoff - BCM	187.747	347.155	1,269.907	1,119.053	2,307.658	4,816.454	9,121.939	5,650.733	1,245.715	597.802	255.053	203.386

WATER YEAR 1961 : Max. 3,985 Min. 55 Mean 860 Annual Runoff 27,122.602mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	18.00	16.00	3,985				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat $19^{\circ} - 09' - 57''$ N, Long $100^{\circ} - 11' - 32''$ E, on left bank 1,500 meters downstream from Chao Phya Diversion Dam, Amphoe San Phaya, Chai Nat.

Drainage Area: 120,693 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 m.(M.S.L.) Prior to Mar.31,1966, adjusted staff gage at datum +6.50 m.(M.S.L.)

Bench Mark: B.M. - C.13

Location: On left bank 5 meters from B.M. - H.S./R.I.D.No.2
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: 1947 - 49, 1951 - 59 and 1961 - 62.

Rated by Float: -

Rated by Current Meter: 1947 - 49, 1951 - 59 and 1961 - 62.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records good except those for periods of no gage height record. The data presented is made by discharge measurements during 1962. Flow regulated by Chao Phya Diversion. Upstream state diversions for irrigation of about 979,000 hectares. No adjustment made for virgin flow.

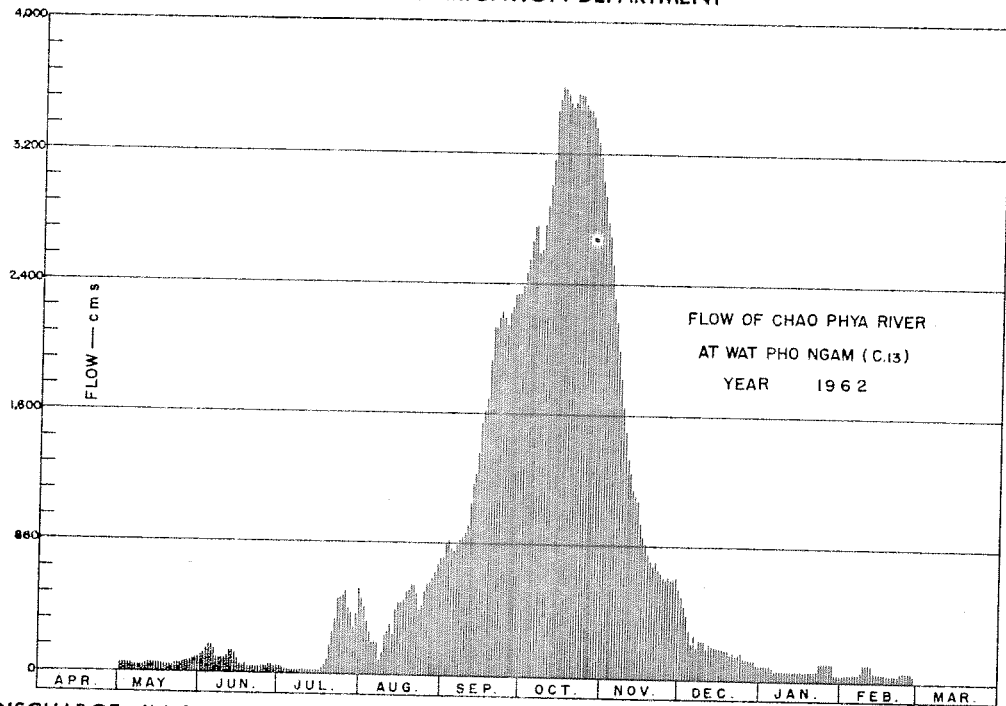
Remarks: No gage height record for Apr.1 - 30 and Mar.1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		7.24	7.62	7.15	9.43	10.41	14.58	15.06	9.60	7.57	7.07	
2		.24	.78	.09	.22	.70	.73	14.94	.38	.57	.09	
3		.24	.97	6.97	8.88	.78	.89	.70	.13	.57	.05	
4		.24	8.05	.95	.46	.60	15.01	.37	8.67	.53	.07	
5		.18	.03	.95	.19	.54	.03	.12	.30	.42	.10	
6		7.09	7.96	6.95	8.25	10.65	14.79	13.82	8.55	7.23	7.10	
7		.09	.68	.95	.17	.78	.81	.47	.15	.27	.10	
8		.09	.57	.94	7.49	.85	15.03	.12	.40	.27	.31	
9		.10	.55	.91	.89	.95	.20	12.76	.40	.27	.63	
10		.14	.55	.91	8.41	11.14	.37	.37	.38	.26	.63	
11		7.18	7.64	6.91	8.56	11.50	15.55	12.07	8.14	7.26	7.63	
12		.30	.85	.91	.79	.85	.87	11.78	.27	.26	.60	
13		.25	.85	.94	.45	12.05	.93	.67	.23	.26	.27	
14		.24	.74	.95	9.19	.43	16.02	.58	.20	.26	.18	
15		.22	.47	.95	.37	.46	.03	.14	.17	.26	.18	
16		7.21	7.28	6.95	9.35	13.04	15.98	10.90	8.10	7.26	7.18	
17		.21	.17	7.13	.44	.21	.92	.75	.10	.26	.18	
18		.16	.23	.20	.62	.68	.89	.54	.08	.26	.08	
19		.12	.08	.48	.69	14.06	.93	.39	.08	.26	.08	
20		.12	.08	8.09	.79	.04	.98	.29	7.90	.26	.07	
21		7.13	7.08	8.50	9.79	14.15	15.97	10.38	8.00	7.25	7.07	
22		.25	.08	.90	.59	.24	.97	.22	7.89	.25	.07	
23		.25	.05	9.46	.16	.16	.91	.16	.91	.66	.20	
24		.23	.13	.49	.31	.07	.88	.03	8.00	.67	.30	
25		.32	.19	.51	.61	.19	.87	.00	7.78	.67	.26	
26		7.33	7.17	9.62	9.84	14.27	15.83	10.07	7.78	7.67	7.26	
27		.38	.23	.18	.90	.38	.78	9.98	.78	.67	.21	
28		.40	.26	.09	.98	.40	.68	10.02	.77	.65	.07	
29		.47	.16	8.62	10.10	.38	.57	.03	.77	.04		
30		.48	.15	9.06	.26	.48	.40	9.76	.55	.05		
31		.60	.77	.41			.29		.56	.05		
Mean		7.24	7.45	7.82	9.18	12.63	15.54	11.68	8.19	7.36	7.21	
Max.		7.60	8.05	9.77	10.41	14.48	16.03	15.06	9.60	7.67	7.63	
Min.		7.09	7.05	6.91	7.49	10.41	14.58	9.76	7.55	7.05	7.05	

WATER YEAR 1962 : Max. 16.03 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		54	101	45	458	718	2,447	2,778	500	94	36	
2		54	125	38	407	802	2,545	2,692	445	94	38	
3		54	157	27	332	825	2,657	2,525	387	94	34	
4		54	171	25	247	773	2,742	2,317	289	89	36	
5		48	167	25	196	756	2,756	2,168	216	75	39	
6		38	155	25	207	788	2,586	1,996	265	53	39	
7		38	109	25	193	825	2,600	1,820	189	58	39	
8		38	94	24	84	846	2,756	1,654	235	58	62	
9		39	92	22	143	875	2,877	1,509	235	58	102	
10		43	92	22	237	933	3,006	1,361	231	57	102	
11		48	104	22	267	1,051	3,160	1,247	187	57	102	
12		61	137	22	313	1,167	3,457	1,143	211	57	98	
13		56	137	24	245	1,239	3,514	1,107	203	57	58	
14		54	118	25	401	1,383	3,599	1,077	198	57	48	
15		52	81	25	443	1,547	3,609	933	193	57	48	
16		51	59	25	438	1,619	3,561	860	180	57	48	
17		51	47	42	460	1,695	3,504	817	180	57	48	
18		46	53	50	505	1,925	3,476	756	176	57	37	
19		41	37	83	523	2,132	3,514	712	176	57	37	
20		41	37	178	548	2,121	3,561	683	145	57	36	
21		42	37	255	548	2,186	3,552	709	162	56	36	
22		56	37	336	498	2,239	3,552	664	143	56	36	
23		56	34	465	394	2,191	3,495	647	147	106	50	
24		53	42	473	428	2,138	3,466	610	162	108	61	
25		63	49	478	503	2,209	3,457	602	125	108	57	
26		65	47	505	560	2,257	3,419	622	125	108	57	
27		71	53	398	575	2,323	3,371	597	125	108	51	
28		73	57	378	597	2,335	3,277	608	123	105	36	
29		81	46	279	630	2,323	3,178	610	123	33		
30		83	45	371	675	2,385	3,030	540	92	34		
31		98	543	718			2,943		93	34		
Total		1,702	2,520	5,255	12,773	46,606	98,667	36,364	6,261	2,156	1,471	
Mean		54.9	84.0	169	412	1,553	3,183	1,212	202	69.5	52.5	
Max.		98	171	543	718	2,385	3,609	2,778	500	108	102	
Min.		38	37	22	84	718	2,447	540	92	34	34	
Runoff - mcm.		147.053	217.728	454.032	1,103.587	4,026.758	8,524.829	3,141.850	540.950	186.278	127.094	

WATER YEAR 1962 : Max. 3,609 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	18.00	16.03	3,609				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
CHAO PHYA RIVER BASIN

Chao Phya River at In Buri, Sing Buri (C.14)

Location: Lat 15° - 00' - 30" N, Long 100° - 19' - 50" E, on right bank 200 meters north of the district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m.(M.S.L.) Prior to Mar.14,1966, adjusted staff gage of datum +4.50 m.(M.S.L.)

Bench Mark: B.M. - C.14

Location: On right bank in front of the Thai Government Saving Bank.

Elevation: +12.694 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: 1950 to date.

Rating Operation:

Period of Rating: 1955

Rated by Float: -

Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

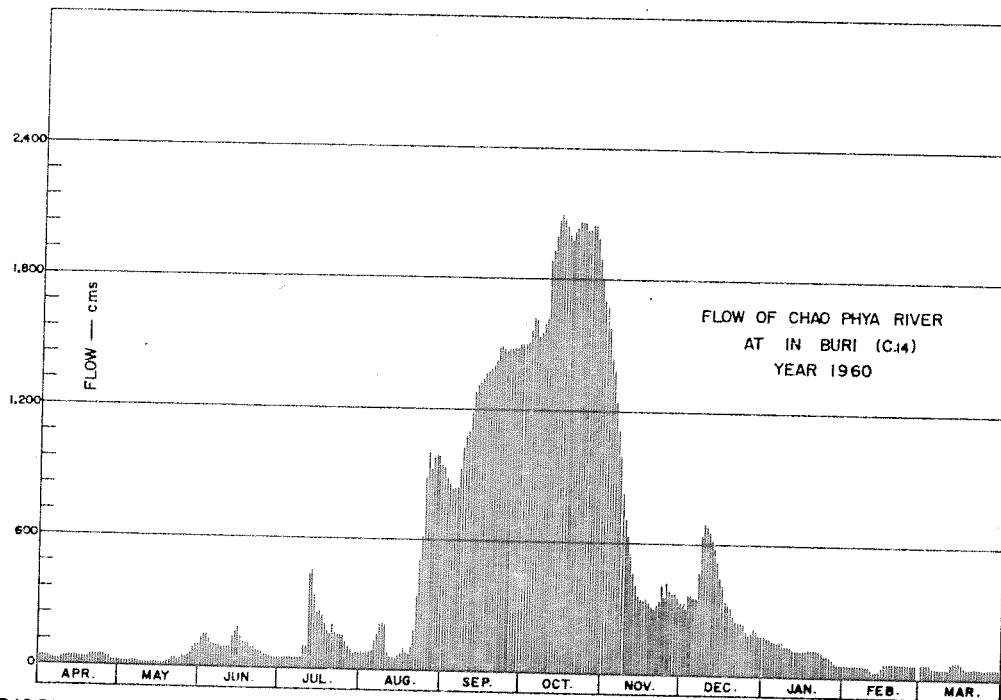
Remarks: No gage height record for Nov.8 - Dec.12.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.43	5.22	6.10	5.50	5.73	9.21	10.70	11.06	6.93	6.37	5.57	5.60
2	.43	.22	.20	.50	.73	.07	.72	10.86	.95	.32	.55	.60
3	.42	.22	.18	.50	.74	8.99	.84	.51	7.23	.29	.54	.60
4	.42	.22	.04	.50	.74	.91	.96	.43	.20	.22	.53	.60
5	.32	.24	5.90	.50	.78	.92	.89	.08	.15	.21	.53	.44
6	5.29	5.30	5.90	5.50	6.09	8.92	10.78	9.73	6.73	6.21	5.53	5.43
7	.27	.28	.90	.50	.21	9.20	.82	.40	.37	.21	.53	.43
8	.27	.22	.90	.50	.52	.48	.90	8.75	8.23	.21	.52	.43
9	.36	.21	.83	.50	.53	.64	.98	.41	.50	.13	.51	.42
10	.41	.20	.80	.91	5.93	.69	11.44	.16	.40	.11	.48	.42
11	5.43	5.18	5.80	6.70	5.71	9.92	11.54	7.80	8.28	6.11	5.38	5.41
12	.43	.17	.81	7.51	.57	10.18	.65	.55	.02	.00	.26	.62
13	.43	.21	6.14	.56	.55	.25	.77	.37	7.97	5.99	.29	.69
14	.43	.21	.27	.11	.55	.29	.80	.15	.73	.98	.34	.67
15	.42	.17	.37	6.72	.66	.32	.78	.10	.37	.98	.47	.67
16	5.42	5.14	6.14	6.80	5.71	10.39	11.73	7.10	7.41	5.99	5.63	5.65
17	.42	.14	5.97	.69	.87	.40	.66	.12	.09	.99	.63	.48
18	.42	.15	.95	.50	.74	.44	.62	.05	.01	6.02	.62	.46
19	.42	.23	.93	.34	.69	.48	.70	6.97	6.99	.02	.62	.43
20	.49	.30	.83	.25	.93	.55	.72	.90	.80	.02	.62	.45
21	5.55	5.41	5.83	6.48	6.35	10.66	11.76	6.95	6.69	6.02	5.61	5.43
22	.50	.44	.72	.29	7.11	.68	.75	7.12	.68	.02	.61	.43
23	.50	.33	.72	.24	.77	.65	.75	.37	.67	5.93	.61	.43
24	.51	.42	.70	.22	8.18	.64	.71	.05	.66	.87	.61	.42
25	.50	.48	.60	.22	9.08	.66	.71	.45	.50	.85	.61	.42
26	5.46	5.45	5.57	6.04	9.44	10.66	11.74	7.20	6.37	5.82	5.61	5.42
27	.42	.50	.53	5.83	.19	.66	.74	.21	.43	.75	.61	.42
28	.29	.64	.50	.73	.34	.66	.63	.24	.54	.60	.60	.42
29	.25	.80	.50	.60	.37	.70	.48	.13	.48	.57	.42	.42
30	.25	.86	.50	.72	.37	.70	.33	.05	.37	.57	.42	.42
31		.90		.73	.26		.12		.37	.57		.42
Mean	5.40	5.34	5.87	6.12	6.82	10.06	11.41	8.04	7.14	6.00	5.54	5.49
Max.	5.55	5.90	6.37	7.56	9.44	10.70	11.80	11.06	8.50	6.37	5.57	5.69
Min.	5.25	5.14	5.50	5.50	5.55	8.91	10.70	6.90	6.37	5.57	5.26	5.41

WATER YEAR 1960 : Max. 11.80 m. Min. 5.14 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	44	24	138	52	81	928	1,500	1,671	299	185	60	64
2	44	24	155	52	81	882	1,509	1,575	303	176	58	64
3	42	24	152	52	83	857	1,566	1,416	368	170	57	64
4	42	24	128	52	85	833	1,623	1,383	361	158	56	64
5	32	25	107	52	89	836	1,589	1,242	349	157	56	45
6	29	30	107	52	136	836	1,538	1,110	342	157	56	44
7	28	28	107	52	157	925	1,556	995	402	157	56	44
8	28	24	107	52	214	1,023	1,594	785	630	157	54	44
9	36	23	96	52	216	1,079	1,632	683	710	143	53	44
10	41	22	92	108	111	1,096	1,872	611	680	140	50	42
11	44	21	92	77	78	1,180	1,929	512	644	140	39	41
12	44	20	93	437	60	1,282	1,995	447	572	122	27	67
13	44	23	145	449	58	1,310	2,070	402	558	120	29	76
14	44	23	167	340	58	1,326	2,090	349	493	119	34	73
15	42	20	185	254	72	1,338	2,077	338	402	119	48	73
16	42	18	145	270	78	1,366	2,044	338	412	120	68	70
17	42	18	117	248	102	1,370	2,001	343	356	120	68	50
18	42	18	114	210	83	1,387	1,977	326	317	125	67	47
19	42	24	111	179	75	1,404	2,025	308	313	125	67	44
20	51	30	96	163	111	1,433	2,038	292	270	125	67	44
21	58	41	96	206	181	1,482	2,064	303	248	125	65	44
22	52	45	80	170	340	1,491	2,057	342	246	125	65	44
23	52	34	80	162	504	1,477	2,057	402	244	111	65	44
24	53	42	77	158	616	1,473	2,025	326	242	102	65	42
25	52	50	64	158	886	1,482	2,025	422	210	99	65	42
26	47	46	60	128	1,009	1,482	2,051	361	185	95	65	42
27	42	52	56	96	922	1,482	2,051	363	196	84	65	42
28	29	69	52	81	974	1,482	1,983	371	218	64	64	42
29	25	92	52	64	984	1,500	1,894	345	206	60	60	42
30	25	101	52	80	984	1,500	1,811	326	185	60	60	42
31		107		81	946		1,700		185	60		42
Total	1,238	1,142	3,123	4,587	10,373	37,542	57,943	18,687	11,126	3,820	1,589	1,570
Mean	41.2	36.8	104	148	335	1,251	1,869	623	359	123	56.7	50.6
Max.	58	107	155	449	1,009	1,500	2,090	1,671	710	185	60	76
Min.	25	18	52	52	58	833	1,500	292	185	60	27	41
Runoff - BCM.	106.963	98.669	269.827	396.517	896.227	3,243.629	5,006.275	1,614.557	961.286	330.048	137.290	135.648

WATER YEAR 1960: Max. 2,090 Min. 18 Mean 418 Annual Runoff 13,196.736 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	18.00	11.80	2,090				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
CHAO PHYA RIVER BASIN**

Chao Phya River at In Buri, Sing Buri (C.14)

Location: Lat 15° - 00' - 30" N, Long 100° - 19' - 50" E, on right bank 200 meters north of the district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m.(M.S.L.) Prior to Mar.14, 1966, adjusted staff gage of datum +4.50 m.(M.S.L.)

Bench Mark: B.M. - C.14

Location: On right bank in front of the Thai Government Saving Bank.
Elevation: +12.694 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: 1950 to date.

Rating Operation:

Period of Rating: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

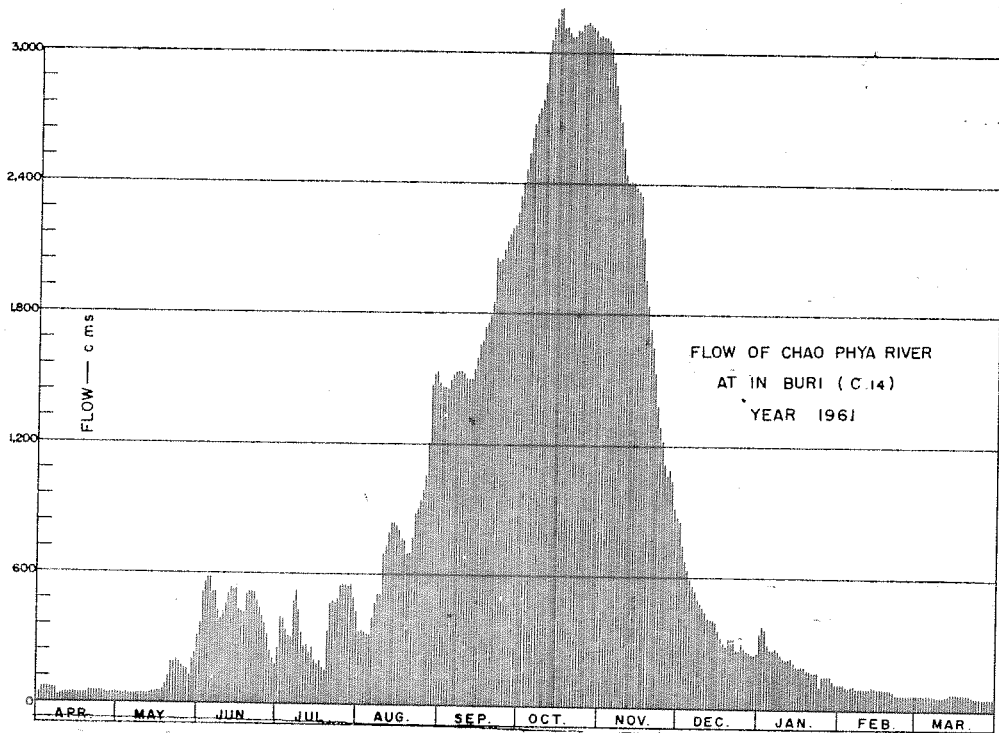
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.45	5.43	7.21	6.76	7.07	10.60	12.17	12.82	8.96	7.10	5.93	5.60
2	.61	.42	.77	7.32	.10	.60	.23	.80	.61	.25	.93	.57
3	.62	.41	.99	.33	.08	.59	.30	.78	.35	.16	.86	.58
4	.62	.44	8.04	.10	.02	.69	.36	.72	.23	6.87	.83	.58
5	.61	.40	.04	.01	.03	.75	.44	.62	.08	.79	.88	.58
6	5.60	5.39	7.80	6.93	7.36	10.76	12.48	12.53	7.97	6.78	5.90	5.58
7	.59	.40	.81	7.64	.66	.77	.51	.45	.87	.80	.80	.58
8	.27	.41	.45	.83	.80	.77	.53	.34	.75	.80	.80	.57
9	.36	.45	.31	.45	.79	.73	.61	.22	.66	.66	.80	.56
10	.41	.45	.47	.06	8.44	.70	.74	.18	.60	.60	.80	.56
11	5.43	5.45	7.57	6.75	8.55	10.69	12.82	12.18	7.51	6.59	5.80	5.56
12	.43	.45	.78	.58	.75	.69	.86	.18	.39	.59	.80	.58
13	.43	.45	.87	.60	.90	.80	.90	.15	.38	.59	.85	.60
14	.43	.50	.75	.72	.90	.90	.93	.14	.37	.45	.83	.62
15	.42	.50	.85	.44	.88	11.01	.94	.12	.34	.38	.82	.65
16	5.42	5.53	7.47	6.35	8.80	11.10	12.86	11.98	7.15	6.38	5.81	5.65
17	.42	.53	.45	.45	.66	.18	.86	.59	.06	.38	.80	.65
18	.42	.59	.44	.26	.62	.21	.84	.39	6.92	.38	.78	.63
19	.42	.76	.77	.16	.45	.30	.82	.21	.87	.30	.77	.63
20	.49	6.05	.81	7.09	.45	.40	.82	.02	7.00	.30	.76	.63
21	5.55	6.39	7.81	7.60	8.66	11.65	12.85	10.76	7.00	6.27	5.74	5.63
22	.50	.40	.81	.65	9.04	.71	.85	.44	.00	.27	.62	.55
23	.50	.45	.67	.60	.13	.73	.87	.21	6.70	.27	.62	.50
24	.51	.41	.51	.72	.24	.80	.87	.03	.75	5.85	.60	.48
25	.50	.28	.37	.91	.37	.86	.88	9.73	.90	6.15	.60	.48
26	5.47	6.23	7.22	7.95	9.55	11.91	12.87	9.58	6.80	6.15	5.60	5.47
27	.42	.20	.00	.91	.97	.94	.86	.67	.75	.15	.60	.47
28	.43	.25	6.66	.90	10.63	.94	.85	.52	.70	.15	.60	.47
29	.43	.45	.47	.93	.73	12.03	.83	.19	.68	6.00	.60	.47
30	.45	.57	.34	.73	.77	.09	.83	.05	.62	5.93	.60	.47
31		.95		.47	.67		.82		.71	.93		.47
Mean	5.47	5.82	7.52	7.20	8.68	11.20	12.72	11.39	7.34	6.46	5.78	5.56
Max.	5.62	6.95	8.04	7.95	10.77	12.09	12.94	12.82	8.96	7.25	5.93	5.65
Min.	5.27	5.39	6.34	6.16	7.02	10.59	12.17	9.05	6.62	5.85	5.60	5.47

WATER YEAR 1961 : Max. 12.94 m. Min. 5.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	46	44	365	262	331	1,455	2,396	3,072	848	338	111	64
2	65	42	504	390	338	1,455	2,455	3,050	743	373	111	60
3	67	41	563	392	333	1,451	2,585	3,028	665	352	101	62
4	67	45	577	338	320	1,495	2,585	2,962	630	385	96	62
5	65	40	577	317	322	1,523	2,667	2,856	588	268	104	62
6	64	40	512	299	400	1,528	2,709	2,761	558	266	107	62
7	63	40	515	470	475	1,533	2,740	2,677	531	270	92	62
8	28	41	422	520	512	1,533	2,761	2,565	498	270	92	60
9	37	46	387	422	509	1,514	2,845	2,445	475	242	92	59
10	41	46	427	329	692	1,500	2,984	2,406	460	230	92	59
11	44	46	452	260	725	1,495	3,072	2,406	437	228	92	59
12	44	46	507	226	785	1,495	3,116	2,406	407	228	92	62
13	44	46	531	230	830	1,547	3,160	2,377	405	228	99	64
14	44	52	498	254	830	1,594	3,193	2,368	402	200	96	67
15	42	52	525	198	824	1,647	3,204	2,349	395	186	95	72
16	42	56	427	181	800	1,690	3,116	2,220	349	186	93	72
17	42	56	422	196	758	1,730	3,116	1,959	326	186	92	72
18	42	63	420	165	746	1,745	3,094	1,844	297	186	89	68
19	42	86	504	148	695	1,795	3,072	1,745	285	172	87	68
20	51	130	515	336	695	1,850	3,072	1,652	315	172	86	68
21	58	188	515	460	758	1,995	3,105	1,528	315	167	83	68
22	52	190	515	472	873	2,031	3,105	1,387	315	167	67	58
23	52	200	477	460	902	2,044	3,127	1,294	250	167	67	52
24	53	192	437	490	939	2,090	3,127	1,222	260	99	64	50
25	52	169	402	542	984	2,132	3,138	1,110	292	146	64	50
26	48	160	366	552	1,047	2,167	3,127	1,058	270	146	64	48
27	42	155	315	542	1,199	2,190	3,116	1,089	260	146	64	48
28	44	163	242	539	1,468	2,190	3,105	1,037	250	146	64	48
29	44	200	204	547	1,514	2,263	3,083	922	246	122		48
30	46	224	179	493	1,533	2,320	3,083	876	234	111		48
31		303		427	1,486		3,072		252	111		48
Total	1,471	3,202	13,300	11,457	24,623	52,997	92,070	60,671	12,558	6,394	2,456	1,850
Mean	49.8	103	443	369	794	1,766	2,970	2,022	405	206	88	60
Max.	67	303	577	552	1,533	2,320	3,204	3,072	848	373	111	72
Min.	28	40	179	148	320	1,451	2,396	876	234	99	64	48
Runoff - mcm.	127.094	276.653	1,149.120	989.885	2,127.427	4,578.941	7,954.848	5,241.974	1,085.011	552.442	212.198	159.840

WATER YEAR 1961 : Max. 3,204 Min. 28 Mean 775 Annual Runoff 24,455.434 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	06.00	12.95	3,215				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHAO PHYA RIVER BASIN

Chao Phya River at In Buri, Sing Buri (C.14)

Location: Lat 15°- 00' - 30" N, Long 100°- 19' - 50" E, on right bank 200 meters north of the district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m.(M.S.L.) Prior to Mar.14,1966, adjusted staff gage of datum +4.50 m.(M.S.L.)

Bench Mark: B.M. - C.14

Location: On right bank in front of the Thai Government Saving Bank.
Elevation: +12.694 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: 1950 to date.

Rating Operation:

Period of Rating: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

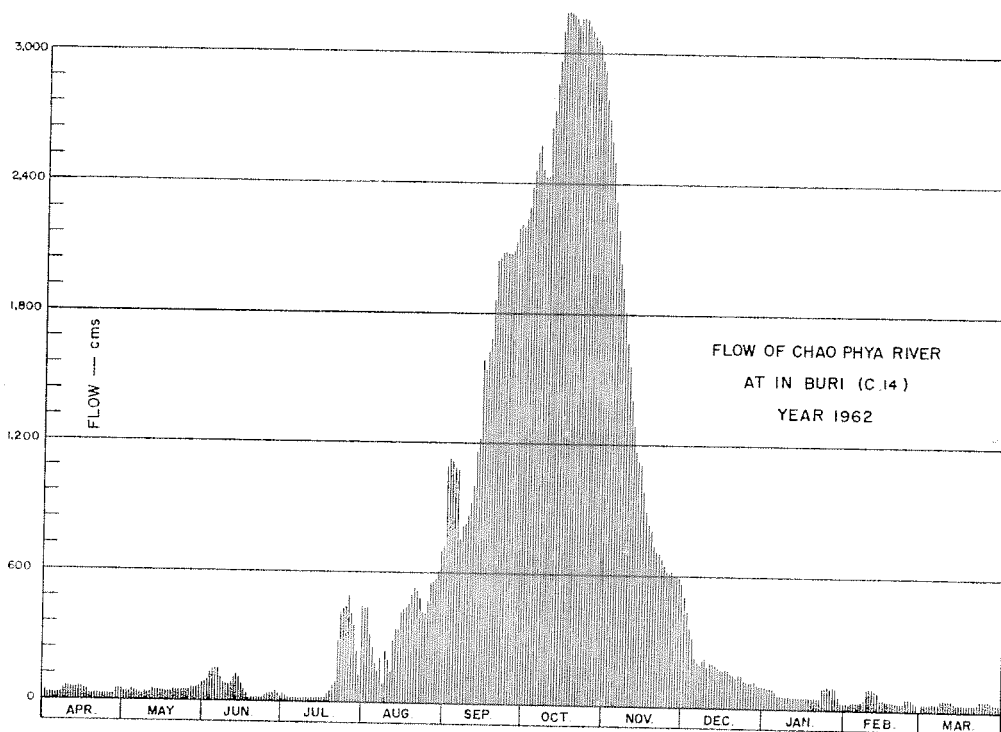
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.42	5.39	5.80	5.37	7.53	9.69	12.06	12.37	7.78	5.84	5.31	5.30
2	.30	.39	.85	.33	.53	.78	.16	.27	.52	.83	.31	.30
3	.31	.39	6.06	.20	.02	.76	.24	.09	.20	.83	.31	.30
4	.32	.48	.15	.20	6.72	.67	.32	11.94	.03	.83	.35	.30
5	.33	.45	.17	.20	.38	.65	.35	.72	6.59	.73	.33	.30
6	5.33	5.36	6.18	5.20	6.18	8.68	12.24	11.54	6.48	5.53	5.33	5.30
7	.33	.33	5.94	.18	.48	.87	.20	.32	.45	.55	.37	.39
8	.55	.33	.77	.17	5.75	.91	.33	.05	.57	.56	.39	.49
9	.57	.36	.73	.15	6.66	9.03	.43	10.83	.60	.55	.81	.49
10	.55	.36	.73	.15	.44	.20	.50	.49	.41	.55	.83	.47
11	5.55	5.45	5.78	5.15	6.57	9.43	12.63	10.21	6.47	5.56	5.03	5.47
12	.54	.50	.93	.15	.91	.88	.73	9.90	.47	.56	.82	.47
13	.53	.47	6.00	.20	7.13	10.05	.85	.78	.44	.55	.73	.34
14	.53	.47	5.96	.19	.13	.89	.92	.72	.39	.55	.47	.27
15	.50	.47	.74	.19	.46	.80	.94	.40	.33	.55	.47	.27
16	5.47	5.46	5.57	5.19	7.51	10.97	12.92	9.12	6.33	5.55	5.43	5.27
17	.46	.45	.37	.21	.53	11.09	.87	8.92	.33	.55	.42	.27
18	.26	.44	.15	.38	.67	.43	.85	.85	.33	.55	.37	.28
19	.28	.45	.17	.54	.81	.73	.87	.60	.19	.50	.35	.28
20	.28	.48	.17	6.11	.89	.74	.90	.52	.19	.50	.33	.28
21	5.28	5.48	5.17	6.53	7.84	11.79	12.90	8.49	6.13	5.50	5.32	5.28
22	.28	.48	.16	.90	.72	.79	.90	.39	.19	.50	.32	.30
23	.27	.49	.23	7.45	.46	.78	.87	.30	.19	.83	.32	.45
24	.29	.50	.33	.52	.43	.77	.85	.21	.04	.83	.33	.45
25	.28	.50	.37	.58	.67	.80	.83	.17	.00	.89	.53	.45
26	5.27	5.53	5.38	7.73	7.96	11.86	12.81	8.21	6.00	5.83	5.53	5.46
27	.32	.58	.39	.42	.99	.95	.79	.14	.00	.87	.40	.43
28	.47	.60	.49	.29	8.05	.97	.73	.13	.00	.85	.33	.31
29	.48	.60	.38	6.63	.17	.95	.68	.02	5.96	.60	.33	.28
30	.48	.65	.32	.06	9.49	12.00	.57	.57	.84	.33	.33	.28
31		.75		7.54	.58		.47		.65	.31		.27
Mean	5.39	5.47	5.61	5.94	7.41	10.66	12.63	9.69	6.40	5.63	5.46	5.35
Max.	5.57	5.75	6.18	7.73	9.58	12.00	12.94	12.37	7.78	5.89	5.83	5.49
Min.	5.26	5.35	5.15	5.15	5.75	8.68	12.06	8.02	5.84	5.31	5.31	5.27

WATER YEAR 1962 : Max. 12.94 m. Min. 5.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42	40	92	38	442	1,096	2,292	2,595	507	98	31	30
2	30	40	99	33	442	1,128	2,387	2,495	440	96	31	30
3	31	40	132	22	320	1,121	2,465	2,320	361	96	31	30
4	32	50	146	22	254	1,089	2,545	2,190	322	96	35	30
5	33	46	150	22	186	1,082	2,575	2,038	228	81	33	30
6	33	37	152	22	152	764	2,465	1,929	206	56	33	30
7	35	35	113	21	206	821	2,425	1,806	200	55	38	40
8	58	35	87	20	84	833	2,555	1,666	224	59	40	51
9	60	37	81	18	242	870	2,656	1,561	230	55	93	51
10	58	37	81	18	198	925	2,730	1,408	192	55	96	48
11	58	46	89	18	224	1,005	2,866	1,294	204	59	96	48
12	57	52	111	18	294	1,165	2,973	1,172	204	59	95	48
13	56	48	122	22	345	1,230	3,105	1,128	198	55	81	34
14	56	48	116	21	345	1,589	3,182	1,107	188	55	48	28
15	52	48	83	21	425	1,547	3,204	995	177	55	48	28
16	48	47	60	21	437	1,628	3,182	899	177	55	44	28
17	47	46	38	23	442	1,685	3,127	836	177	55	42	28
18	27	45	18	39	477	1,866	3,105	815	177	55	38	28
19	28	46	20	57	515	2,044	3,127	740	153	52	35	28
20	28	50	20	140	536	2,051	3,160	716	153	52	33	28
21	28	50	20	216	523	2,083	3,160	707	143	52	32	28
22	28	50	19	292	490	2,083	3,160	677	153	52	32	30
23	28	51	24	422	425	2,077	3,127	650	153	96	32	46
24	29	52	34	440	417	2,070	3,105	625	128	96	56	45
25	28	52	38	454	477	2,090	3,083	614	122	105	56	45
26	28	56	39	493	555	2,132	3,061	625	122	96	56	47
27	32	62	40	415	563	2,197	3,039	605	122	102	40	44
28	48	64	51	383	580	2,212	2,973	602	122	99	33	31
29	50	64	39	236	614	2,197	2,919	602	116	64	31	28
30	50	70	32	132	707	2,235	2,803	572	98	33	28	28
31		84		445	734		2,698		99	31		28
Total	1,218	1,528	2,146	4,544	12,651	46,915	89,254	35,989	6,096	2,125	1,358	1,096
Mean	40.6	49.2	71.5	146	408	1,564	2,879	1,200	197	68.5	48.5	35.3
Max.	60	84	152	493	734	2,235	3,204	2,595	507	105	96	51
Min.	27	35	18	18	84	764	2,292	572	98	31	31	28
Runoff - mcm.	105.235	132.019	185.414	392.602	1,093.048	4,053.456	7,711.546	3,109.450	526.694	183.600	117.331	94.694

WATER YEAR 1962 : Max. 3,204 Min. 18 Mean 561 Annual Runoff 17,705.088 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 14	18.00	12.95	3,215				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Chula Mani, Ayuthaya (C.15)

Location: Lat 14° - 25' - 35" N, Long 100° - 29' - 11" E, on left bank in front of Wat Chula Mani, 100 meters downstream from the confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: -0.25 m.(M.S.L.) Prior to Apr.-7,1966, adjusted staff gage at datum -0.20 m.(M.S.L.)

Bench Mark: B.M. - C.15

Location: On left bank north of Wat Chula Mani.
Elevation: +4.501 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: 1950 to date.

Rating Operation:

Period of Rating: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

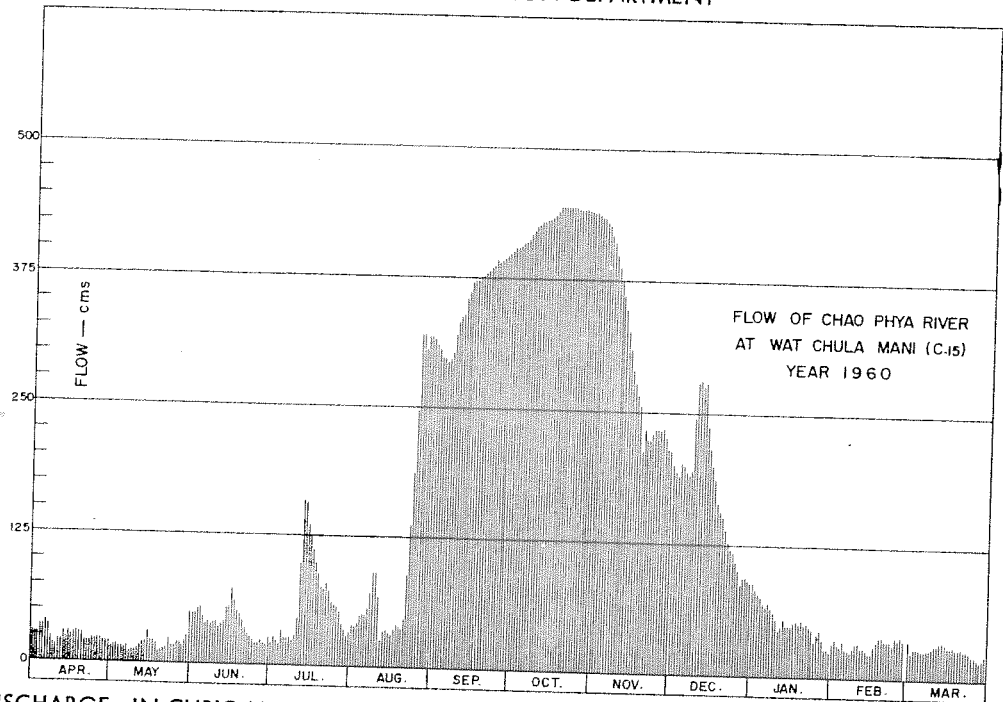
General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Mat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.41	0.14	0.71	0.29	0.60	3.30	3.98	4.19	2.42	1.24	0.48	0.53
2	.40	.18	.71	.38	.58	.28	.99	.18	.34	.16	.55	.34
3	.38	.21	.79	.31	.65	.22	4.01	.17	.29	.10	.47	.40
4	.52	.16	.80	.27	.72	.21	.03	.15	.42	.07	.44	.40
5	.53	.16	.67	.50	.74	.18	.03	.13	.39	.60	.52	.40
6	0.58	0.13	0.56	0.36	0.73	3.20	4.08	4.08	2.34	0.98	0.39	0.38
7	.51	.17	.62	.36	.85	.25	.09	.03	.29	1.01	.36	.38
8	.33	.06	.59	.37	1.01	.39	.12	3.95	.35	0.95	.32	.36
9	.18	.09	.60	.33	.27	.47	.13	.87	.79	.90	.42	.40
10	.17	.09	.62	.42	.26	.51	.14	.77	3.07	.80	.48	.41
11	0.27	0.10	0.54	0.67	0.97	3.52	4.15	3.67	3.08	0.66	0.49	0.46
12	.30	.18	.57	1.36	.34	.62	.15	.57	.00	.71	.40	.46
13	.40	.26	.63	2.00	.49	.68	.16	.43	2.86	.82	.41	.52
14	.34	.29	.80	1.99	.51	.74	.17	.30	.72	.73	.37	.51
15	.41	.43	.85	.76	.49	.75	.18	.15	.54	.73	.32	.50
16	0.37	0.27	1.05	1.65	0.44	3.75	4.20	3.05	2.36	0.73	0.32	0.43
17	.40	.29	0.90	.51	.54	.78	.23	2.96	.27	.70	.47	.44
18	.44	.22	.76	.38	.60	.79	.24	.88	.06	.71	.52	.45
19	.40	.06	.73	.24	.59	.81	.23	.50	1.97	.75	.57	.41
20	.36	.08	.64	.08	.54	.82	.23	.73	.93	.78	.56	.42
21	0.26	0.11	0.52	1.05	0.69	3.84	4.23	2.78	1.80	0.74	0.53	0.43
22	.29	.12	.41	.11	1.25	.87	.23	.61	.69	.76	.50	.38
23	.27	.31	.39	.05	.78	.89	.23	.66	.61	.72	.52	.39
24	.29	.19	.32	0.90	2.27	.87	.22	.69	.57	.67	.45	.37
25	.32	.17	.26	.86	.81	.90	.22	.69	.50	.50	.56	.30
26	0.30	0.27	0.29	0.85	3.38	3.91	4.22	2.68	1.39	0.62	0.54	0.30
27	.31	.23	.34	.76	.38	.93	.22	.70	.22	.67	.58	.24
28	.28	.19	.27	.61	.27	.94	.21	.63	.30	.53	.51	.20
29	.28	.30	.25	.51	.36	.96	.21	.54	.31	.36		.21
30	.27	.39	.37	.41	.36	.98	.20	.53	.27	.36		.31
31		.73		.49	.34		.20		.24	.33		.27
Mean	0.35	0.21	0.58	0.86	1.38	3.64	4.16	3.27	2.11	0.77	0.47	0.39
Max.	0.58	0.73	1.05	2.00	3.38	3.98	4.24	4.19	3.08	1.24	0.58	0.53
Min.	0.17	0.06	0.25	0.27	0.34	3.18	3.98	2.50	1.22	0.33	0.32	0.20

WATER YEAR 1960 : Max. 4.24 m. Min. 0.06 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	29	15	48	21	40	309	403	436	202	88	33	36
2	28	17	48	27	39	306	405	435	194	82	37	24
3	27	18	53	23	43	299	408	433	188	77	32	28
4	35	16	54	21	48	297	410	430	202	75	30	28
5	36	16	45	34	50	293	411	427	199	69	35	28
6	39	14	38	26	49	296	419	419	194	67	27	27
7	35	16	41	26	57	302	420	411	188	70	26	27
8	24	11	39	26	70	321	425	399	195	65	23	26
9	17	12	40	24	91	332	427	388	245	61	29	28
10	16	12	41	29	90	337	428	374	279	54	33	29
11	21	13	36	45	67	339	430	360	280	44	33	32
12	22	17	38	98	24	353	430	345	270	48	28	32
13	28	20	42	158	33	361	432	326	253	55	29	35
14	24	21	54	157	35	370	433	309	236	49	26	35
15	29	30	57	134	33	371	435	289	215	49	23	34
16	26	21	73	124	30	371	438	276	196	49	23	30
17	28	21	61	110	36	375	443	265	186	47	32	30
18	30	18	51	99	40	377	444	256	164	48	35	30
19	28	11	49	88	39	379	443	211	155	50	38	31
20	26	12	43	75	36	381	443	238	151	53	38	29
21	20	13	35	73	46	384	443	244	138	50	36	30
22	21	14	29	78	89	387	443	223	127	51	34	27
23	21	23	27	73	136	390	443	229	120	48	35	27
24	21	17	23	61	186	388	441	233	116	45	31	26
25	23	16	20	58	247	392	441	233	110	34	38	22
26	22	21	21	57	319	393	441	232	100	41	36	22
27	23	19	24	51	319	396	441	234	87	45	39	19
28	21	17	21	41	305	398	440	226	93	36	35	17
29	21	22	20	35	317	400	440	215	94	26	26	18
30	21	27	26	29	317	403	448	214	91	26	26	23
31		49		33	314		438		88	24		21
Total	762	569	1,197	1,934	3,545	10,700	13,376	9,311	5,356	1,626	894	850
Mean	25.4	18.3	39.9	62.3	114	357	431	310	173	52.4	31.9	27.4
Max.	39	49	73	158	319	403	444	436	280	88	39	36
Min.	16	11	20	21	24	293	403	211	87	24	23	17
Runoff - 厘米	65.837	49.162	103.421	167.098	306.288	924.480	1,155.686	804.470	462.785	140.486	77.242	73.440

WATER YEAR 1960 : Max. 444 Min. 11 Mean 137 Annual Runoff 4,330.368 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	06.00	4.24	444				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Chula Mani, Ayuthaya (C.15)

Location: Lat 14°-25'-35" N, Long 100°-29'-11" E, on left bank in front of Wat Chula Mani, 100 meters downstream from the confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: -0.25 m.(M.S.L.) Prior to Apr.7,1966, adjusted staff gage at datum -0.20 m.(M.S.L.)

Bench Mark: B.M. - C.15

Location: On left bank north of Wat Chula Mani.
Elevation: +4.301 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: 1950 to date.

Rating Operation:

Period of Rating: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank flow Conditions: Overbank flow was observed but not included for flow computation.

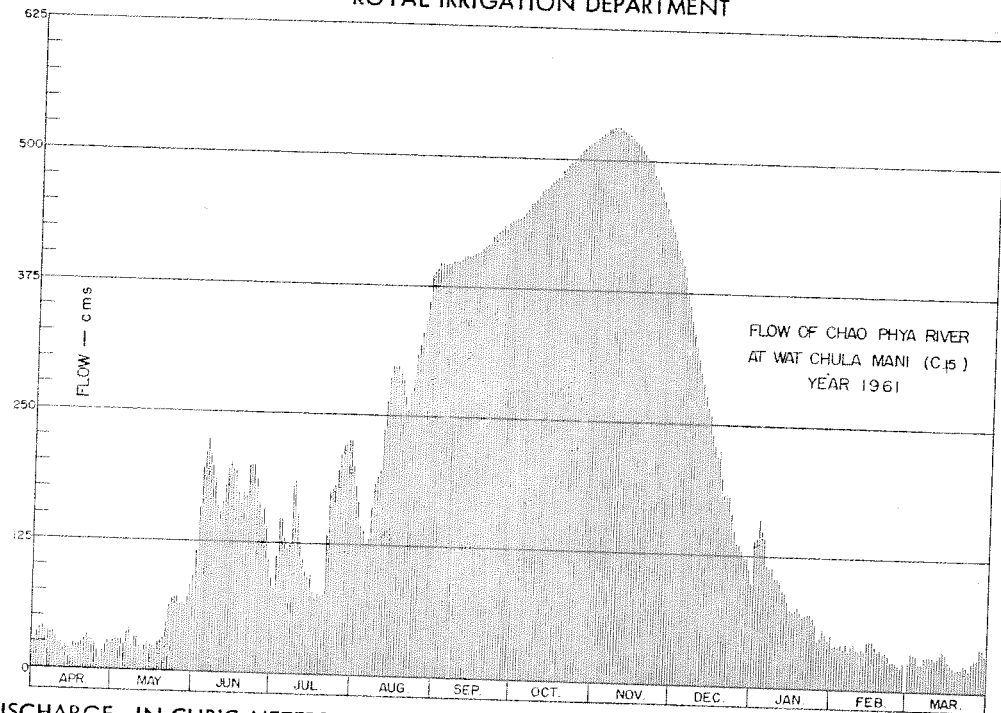
General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.37	0.40	1.58	1.16	2.23	3.93	4.24	4.72	4.02	1.81	0.78	0.39
2	.52	.41	2.02	.55	.05	.93	.26	.73	3.97	.84	.80	.53
3	.58	.42	.36	.91	1.85	.93	.28	.73	.88	2.02	.78	.50
4	.60	.44	.51	.90	.81	.93	.32	.74	.78	1.90	.63	.50
5	.54	.34	.61	.72	.69	.95	.32	.74	.69	.85	.58	.36
6	0.55	0.52	2.50	1.61	1.73	3.95	4.34	4.74	3.59	1.56	0.64	0.35
7	.52	.60	.39	.65	2.05	.96	.36	.73	.51	.54	.54	.47
8	.52	.34	.25	2.21	.25	.97	.39	.72	.42	.55	.62	.48
9	.47	.47	.02	.26	.32	.98	.40	.72	.32	.44	.65	.46
10	.36	.46	1.96	1.98	.36	.98	.41	.70	.23	.44	.57	.47
11	0.37	0.27	2.05	1.68	2.73	3.98	4.43	4.69	3.16	1.41	0.54	0.44
12	.22	.22	.20	.50	.99	.99	.44	.67	.06	.29	.57	.47
13	.33	.34	.36	.39	3.14	4.00	.45	.66	2.96	.28	.55	.52
14	.26	.40	.42	.30	.21	.01	.46	.65	.90	.18	.68	.57
15	.24	.35	.36	.32	.20	.03	.47	.63	.74	.08	.69	.54
16	0.35	0.33	2.33	1.12	3.20	4.04	4.51	4.60	2.66	1.05	0.69	0.42
17	.30	.27	.13	.04	.16	.05	.52	.59	.58	.07	.62	.37
18	.32	.40	.05	.10	.10	.06	.53	.57	.62	.10	.54	.32
19	.37	.41	.14	.08	2.98	.07	.55	.55	.32	.04	.57	.25
20	.41	.47	.11	.09	.89	.12	.56	.51	.22	0.97	.50	.29
21	0.49	0.70	2.39	1.74	3.02	4.13	4.58	4.47	2.25	1.00	0.54	0.27
22	.41	.92	.38	2.16	.12	.14	.60	.45	.22	.03	.48	.35
23	.44	1.00	.40	.19	.31	.15	.61	.41	.07	.01	.39	.34
24	.38	.03	.27	.23	.38	.18	.63	.37	1.91	0.97	.38	.25
25	.23	.03	.09	.36	.46	.14	.64	.31	.79	.90	.37	.40
26	0.02	0.94	1.91	2.51	3.54	4.20	4.65	4.26	1.78	0.67	0.34	0.44
27	.	.96	2.01	.58	.66	.21	.66	.21	.72	.73	.30	.45
28	.	.94	1.77	.62	.84	.21	.67	.18	.64	.84	.36	.62
29	.40	1.03	.47	.63	.88	.22	.68	.13	.64	.73	.61	.61
30	.36	.18	.27	.63	.90	.23	.69	.09	.56	.69	.53	.53
31	.	.26	.	.41	.93	.	.71	.	.37	.76	.	.67
Mean	0.38	0.61	2.14	1.82	2.90	4.05	4.49	4.54	2.70	1.22	0.56	0.44
Max.	0.60	1.26	2.61	2.63	3.93	4.23	4.71	4.74	4.02	2.02	0.80	0.67
Min.	0.02	0.22	1.27	1.04	1.69	3.93	4.24	4.09	1.37	0.67	0.30	0.25

WATER YEAR 1961 : Max. 4.74 m. Min. 0.02 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	28	117	82	182	396	444	527	409	139	53	27
2	35	29	160	114	165	396	447	529	402	142	54	36
3	39	29	196	149	143	396	450	529	389	160	53	34
4	40	30	212	148	139	396	457	531	375	148	42	34
5	36	24	223	130	127	399	457	531	362	143	39	26
6	37	35	211	120	131	399	460	531	349	115	43	25
7	35	40	199	124	163	400	464	529	337	113	36	32
8	35	24	184	180	184	401	469	527	324	114	41	33
9	32	32	160	185	192	403	471	527	311	104	43	32
10	26	32	154	156	196	403	472	524	299	104	38	32
11	26	21	163	127	237	403	476	522	290	101	36	30
12	18	18	179	110	268	404	477	518	277	92	38	32
13	24	24	196	100	288	406	479	516	265	91	37	35
14	20	28	202	93	297	407	481	515	258	83	46	38
15	19	25	196	95	296	410	482	511	238	75	46	36
16	25	24	193	79	296	412	489	506	229	73	46	29
17	22	21	172	72	290	414	491	504	219	75	41	26
18	23	28	163	77	283	415	493	500	224	77	36	23
19	26	29	173	75	267	417	497	497	192	72	38	20
20	29	32	169	76	356	425	498	489	181	67	34	21
21	33	47	199	134	272	426	502	482	184	69	36	21
22	29	63	199	175	285	428	506	479	181	71	33	25
23	30	69	200	178	310	430	508	472	165	70	27	24
24	27	71	186	182	319	434	511	465	149	67	27	20
25	19	71	167	196	330	428	513	455	137	61	26	28
26	9.40	64	149	212	341	438	515	447	136	45	24	30
27	18	66	159	219	358	439	516	439	130	49	22	31
28	23	64	135	224	383	439	518	434	123	57	26	41
29	28	71	107	225	389	441	520	426	123	49	46	41
30	26	83	91	225	392	442	522	420	115	46	36	45
31		90	201	396			525		99	51		
Total	815.40	1,312	5,214	4,463	8,175	12,447	15,110	14,882	7,472	2,723	1,061	943
Mean	27.2	42.3	174	144	264	415	487	496	241	87.8	37.9	30.4
Max.	40	90	223	225	396	442	525	531	409	160	54	45
Min.	9.40	18	91	72	127	396	444	420	99	45	22	20
Runoff - mm.	70.450	113.357	450.490	385.603	706.320	1,075.421	1,305.504	1,285.805	645.58	235.267	91.670	81.475

WATER YEAR 1961 : Max. 531 Min. 9.40 Mean 204 Annual Runoff 6,446.943 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.3	18.00	4.74	531				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Chula Mani, Ayuthaya (C.15)

Location: Lat $14^{\circ} - 25' - 35''$ N, Long $100^{\circ} - 29' - 11''$ E, on left bank in front of Wat Chula Mani, 100 meters downstream from the confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: -0.25 m.(M.S.L.) Prior to Apr.7,1966, adjusted staff gage at datum -0.20 m.(M.S.L.)

Bench Mark: B.M. - C.15

Location: On left bank north of Wat Chula Mani.
Elevation: +4.301 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: 1950 to date.

Rating Operation:

Period of Rating: 1955
Rated by Float: -
Rated by Current Meter: 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

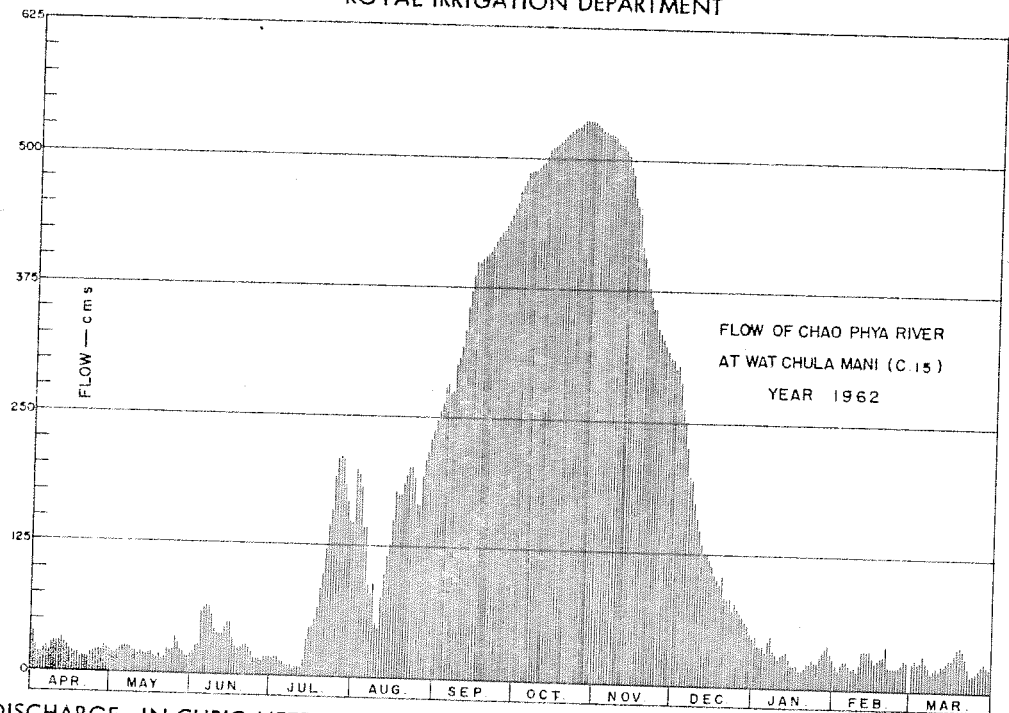
General Description: Records fair. Stage - discharge relation used is defined by discharge measurement during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	0.21	0.30	0.19	2.38	2.89	4.42	4.71	3.27	0.71	0.29	0.39
2	.33	.22	.50	.23	.35	.95	.45	.70	.14	.59	.19	.41
3	.19	.29	.49	.21	.18	3.07	.49	.70	2.97	.57	.31	.34
4	.17	.31	.88	.10	1.86	.09	.49	.69	.84	.57	.36	.48
5	.27	.35	.94	.10	.55	.03	.49	.68	.64	.49	.37	.49
6	0.31	0.38	0.95	0.06	1.26	3.04	4.50	4.66	2.39	0.64	0.32	0.39
7	.24	.34	.94	.03	.13	.24	.52	.64	.35	.72	.24	.29
8	.37	.31	.83	.06	.26	.30	.54	.64	.15	.52	.27	.20
9	.42	.30	.64	.02	0.77	.38	.55	.62	.06	.44	.19	.24
10	.40	.27	.57	.00	.69	.48	.57	.59	1.91	.37	.59	.29
11	0.39	0.23	0.56	0.01	1.09	3.64	4.61	4.53	1.77	0.45	0.55	0.22
12	.47	.26	.57	.03	.37	.76	.62	.49	.67	.45	.55	.35
13	.38	.24	.68	.20	.57	.86	.63	.36	.67	.48	.55	.32
14	.34	.21	.76	.54	.69	.96	.64	.31	.61	.39	.55	.38
15	.29	.23	.75	.69	.94	.95	.65	.26	.53	.30	.44	.42
16	0.21	0.25	0.59	0.69	2.19	3.98	4.67	4.10	1.44	0.28	0.34	0.41
17	.19	.16	.38	.78	.14	.99	.69	.01	.40	.28	.40	.48
18	.22	.14	.33	.96	.17	4.01	.70	3.94	.35	.20	.43	.62
19	.11	.22	.36	1.21	.27	.03	.71	.81	.43	.19	.47	.61
20	.13	.13	.41	.40	.35	.07	.72	.74	.20	.26	.61	.57
21	0.13	0.19	0.41	1.65	2.42	4.09	4.73	3.66	1.17	0.33	0.30	0.43
22	.12	.31	.38	.88	.42	.12	.74	.65	.17	.33	.29	.29
23	.24	.30	.28	2.10	.32	.14	.75	.58	.03	.38	.28	.13
24	.25	.32	.20	.39	.09	.16	.77	.49	.14	.34	.28	.15
25	.30	.52	.17	.48	.08	.19	.77	.44	.06	.34	.28	.19
26	0.30	0.44	0.16	2.51	2.34	4.21	4.77	3.41	1.00	0.46	0.34	0.26
27	.29	.29	.12	.49	.49	.25	.77	.37	0.96	.55	.42	.33
28	.36	.30	.23	.26	.56	.28	.76	.32	.91	.58	.39	.39
29	.31	.20	.21	.10	.65	.33	.74	.31	.87	.63	.32	.32
30	.30	.16	.21	1.90	.73	.38	.72	.25	.75	.45	.36	.36
31		.26		.89	.83		.71		.69	.36		.58
Mean	0.29	0.27	0.49	1.00	1.97	3.76	4.64	4.09	1.66	0.44	0.38	0.36
Max.	0.55	0.52	0.95	2.51	2.85	4.38	4.77	4.71	3.27	0.72	0.61	0.62
Min.	0.11	0.13	0.12	0.00	0.69	2.89	4.42	3.25	0.69	0.19	0.19	0.13

WATER YEAR 1962 : Max. 4.77 m. Min. 0.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	37	18	22	17	198	257	474	526	305	48	21	27
2	24	18	34	19	195	264	479	524	288	39	17	29
3	17	21	33	18	177	279	486	524	266	38	23	24
4	16	23	60	13	144	282	486	522	251	38	26	27
5	21	25	64	13	114	274	486	520	227	33	26	33
6	23	27	65	11	90	275	488	516	199	43	23	27
7	19	24	64	9.85	79	301	492	513	195	48	19	21
8	26	23	56	11	90	309	495	513	174	35	21	17
9	29	22	43	9.40	52	319	497	510	164	30	17	19
10	28	21	38	8.50	46	333	501	504	149	26	39	21
11	27	19	38	8.95	76	356	508	493	135	31	37	18
12	32	20	38	9.85	99	372	510	486	126	31	37	24
13	27	19	46	17	116	366	511	464	126	33	36	23
14	24	18	51	36	127	400	515	455	120	27	37	27
15	21	19	50	46	152	399	515	448	113	22	30	29
16	18	20	39	46	178	403	519	442	105	21	24	29
17	17	16	27	53	173	405	522	408	101	21	28	33
18	18	15	24	66	176	408	524	398	97	17	30	41
19	13	18	26	86	186	411	526	379	104	17	32	41
20	14	14	29	101	195	417	528	370	85	20	41	38
21	14	17	29	124	202	420	529	358	83	24	22	30
22	14	23	27	146	202	425	531	357	83	24	21	21
23	19	22	21	168	192	428	533	347	71	27	21	14
24	20	23	17	199	167	432	537	335	80	24	21	15
25	22	35	16	208	166	436	537	328	74	24	21	17
26	22	30	16	212	194	440	537	323	69	32	24	20
27	21	21	14	210	209	446	537	318	66	38	29	24
28	26	22	19	185	217	451	535	312	62	39	27	27
29	23	17	18	168	228	459	531	310	59	42		23
30	22	16	18	148	237	468	528	302	50	31		26
31	20	20	147	249			526		46	26		39
Total	654	646	1,042	2,514.55	4,926	11,255	15,921	12,785	4,073	949	750	804
Mean	21.8	20.8	34.7	81.1	159	375	513	426	131	30.6	26.7	25.9
Max.	37	35	65	212	249	468	537	526	305	48	41	41
Min.	13	14	14	8.50	46	257	474	302	46	17	17	14
Runoff - mcm.	56.506	55.814	90.029	217.257	425.606	972.432	1,375.574	1,104.624	351.907	81.994	64.800	69.466

WATER YEAR 1962 : Max. 537 Min. 8.50 Mean 154 Annual Runoff 4,866.009 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 24	18.00	4.77	537				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
LOP BURI RIVER BASIN

Lop Buri River at Wat Pho Ngam, Lop Buri(L.2)

Location: Lat 14° - 47' - 46" N, Long 100° - 36' - 39" E, on left bank in front of Wat Pho Ngam, 1 kilometer west of railway station, Amphoe Muang, Lop Buri.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +1.64 m.(M.S.L.)

Bench Mark:

Location:

Elevation:

Gage Reading Frequency: 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: 1950 - 61

Rating Operation:

Period of Rating: 1950

Rated by Float: -

Rated by Current Meter: 1950

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

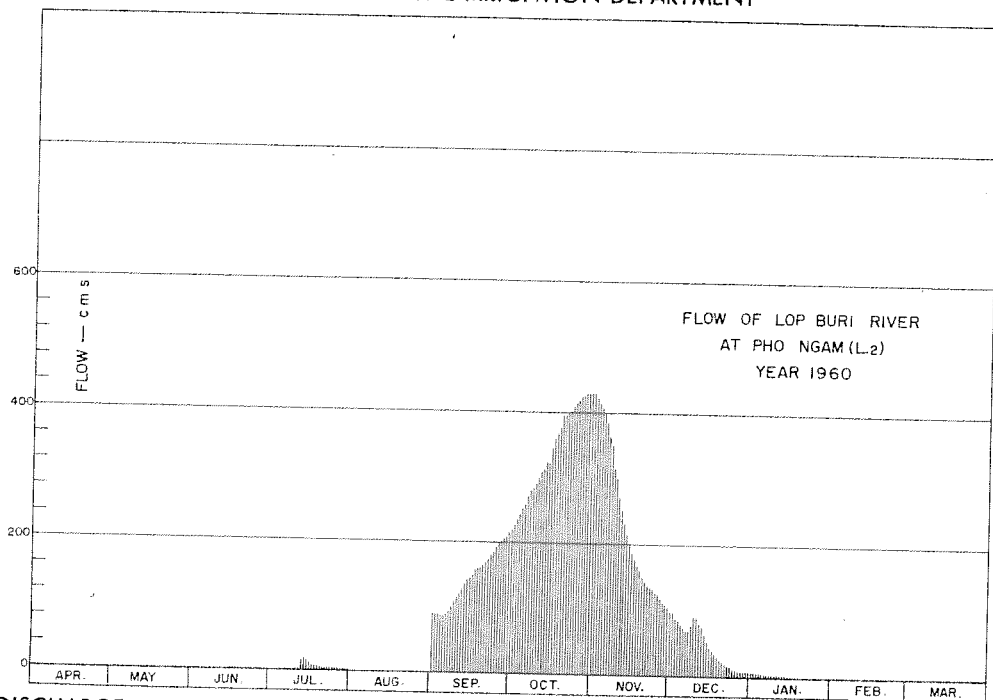
General Description: Records fair except those for period of no gage height record. Stage - discharge relation used is defined by discharge measurements during 1950. No state diversions above gage site.

Remarks: No gage height record for Aug. 1 - 31

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.11	1.97	2.10	2.21		5.66	6.93	7.73	5.75	3.21	2.23	2.33
2	.11	.97	.09	.20		.65	.97	.71	.66	.19	.24	.33
3	.11	.96	.09	.19		.63	7.01	.69	.60	.14	.24	.32
4	.10	.96	.09	.17		.60	.05	.67	.58	.08	.23	.32
5	.10	.96	.26	.32		.61	.10	.65	.48	.02	.24	.31
6	2.09	1.95	2.31	2.35		5.64	7.13	7.59	5.37	2.97	2.24	2.31
7	.09	.95	.32	.35		.71	.19	.53	.25	.94	.24	.32
8	.09	.94	.31	.34		.83	.23	.48	.28	.91	.24	.33
9	.09	.97	.28	.32		.94	.24	.40	.48	.88	.25	.33
10	.08	.96	.28	.30		6.03	.27	.31	.66	.83	.26	.33
11	2.08	1.97	2.27	2.28		6.10	7.31	7.19	5.65	2.80	2.27	2.32
12	.08	.98	.27	.64		.19	.34	.09	.50	.77	.27	.31
13	.07	.97	.25	3.69		.27	.36	6.99	.37	.75	.27	.31
14	.07	.97	.23	.85		.33	.39	.89	.18	.67	.27	.31
15	.07	.97	.28	.69		.36	.42	.79	4.93	.61	.28	.34
16	2.06	2.01	2.52	3.55		6.40	7.47	6.71	4.73	2.56	2.30	2.34
17	.05	.04	.66	.31		.47	.51	.63	.62	.50	.30	.34
18	.04	.07	.61	.19		.50	.54	.56	.43	.49	.31	.35
19	.04	.07	.56	.02		.50	.57	.49	.27	.43	.33	.35
20	.04	.07	.50	2.90		.53	.63	.41	.15	.39	.34	.35
21	2.04	2.07	2.45	2.81		6.56	7.63	6.34	3.98	2.35	2.35	2.35
22	.03	.06	.40	.88		.61	.64	.28	.82	.33	.36	.36
23	.03	.07	.35	.87		.66	.65	.24	.75	.31	.35	.36
24	.03	.09	.31	.79		.70	.67	.22	.69	.31	.34	.36
25	.02	.11	.33	.76		.75	.69	.16	.40	.29	.33	.36
26	2.01	2.12	2.29	2.79		6.78	7.70	6.11	3.47	2.27	2.32	2.35
27	.01	.11	.30	.75		.81	.72	.02	.33	.26	.32	.35
28	.00	.12	.27	.68		.83	.72	5.97	.33	.26	.32	.35
29	1.99	.11	.25	.63		.86	.73	.93	.38	.24	.34	.35
30	.98	.11	.23	.62		.90	.73	.88	.32	.24	.34	.36
31		.10		.68			.73		.23	.23		.36
Mean	2.03	2.02	2.31	2.75		6.28	7.43	6.82	4.60	2.62	2.29	2.34
Max.	2.11	2.12	2.66	3.85		6.90	7.73	7.73	5.75	3.21	2.36	2.36
Min.	1.98	1.94	2.09	2.17		5.60	6.93	5.88	3.23	2.23	2.23	2.31

WATER YEAR 1960 : Max. 7.73 m. Min. 1.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.42	0.17	0.40	0.62		90	220	429	96	7.10	0.66	0.86
2	0.42	0.17	0.38	0.60		89	228	422	90	6.90	0.68	0.86
3	0.42	0.16	0.38	0.58		88	235	415	86	6.40	0.68	0.84
4	0.40	0.16	0.38	0.54		86	243	408	85	5.80	0.66	0.84
5	0.40	0.16	0.72	0.84		87	252	402	79	5.20	0.68	0.82
6	0.38	0.15	0.82	0.90		88	259	362	74	4.70	0.68	0.82
7	0.38	0.15	0.84	0.90		93	272	364	68	4.40	0.68	0.84
8	0.38	0.15	0.82	0.88		101	281	349	69	4.10	0.68	0.86
9	0.38	0.17	0.76	0.84		109	284	315	79	3.80	0.70	0.86
10	0.36	0.16	0.76	0.80		115	291	301	90	3.30	0.72	0.86
11	0.36	0.17	0.74	0.76		121	301	272	89	3.00	0.74	0.84
12	0.36	0.18	0.74	2.20		129	309	250	80	2.85	0.74	0.82
13	0.34	0.17	0.70	15		136	314	231	74	2.75	0.74	0.82
14	0.34	0.17	0.66	18		142	322	214	64	2.35	0.74	0.82
15	0.34	0.17	0.76	15		145	321	199	52	2.05	0.76	0.86
16	0.32	0.22	1.60	12		149	346	187	44	1.80	0.80	0.88
17	0.30	0.28	2.30	8.10		157	358	176	40	1.50	0.80	0.88
18	0.28	0.34	2.05	6.90		160	367	167	34	1.45	0.82	0.90
19	0.28	0.34	1.80	5.20		160	376	159	29	1.15	0.87	0.90
20	0.28	0.34	1.50	4.00		164	395	150	26	0.98	0.88	0.90
21	0.28	0.34	1.25	3.10		167	395	143	22	0.90	0.90	0.90
22	0.26	0.32	1.00	3.80		173	398	137	18	0.86	0.92	0.92
23	0.26	0.34	0.90	3.70		180	402	134	16	0.82	0.90	0.92
24	0.26	0.38	0.82	2.95		185	408	132	15	0.82	0.88	0.92
25	0.24	0.42	0.86	2.80		193	415	126	9.00	0.78	0.86	0.92
26	0.22	0.44	0.78	2.95		197	418	122	10	0.74	0.84	0.90
27	0.22	0.42	0.80	2.75		202	425	115	8.30	0.72	0.84	0.90
28	0.20	0.44	0.74	2.40		205	425	111	8.30	0.72	0.84	0.90
29	0.19	0.42	0.70	2.15		209	429	108	8.80	0.68		0.90
30	0.18	0.42	0.66	2.10		215	429	105	8.20	0.68		0.92
31		0.40		2.40			429		7.30	0.66		0.92
Total	9.45	8.32	27.62	125.76		4,335	10,547	7,025	1,478.90	79.96	21.96	27.17
Mean	0.31	0.27	0.92	4.06		144	340	234	47.7	2.58	0.77	0.87
Max.	0.42	0.44	2.30	18		215	429	429	96	7.10	0.92	0.92
Min.	0.18	0.15	0.38	0.54		86	220	105	7.30	0.66	0.66	0.82
Runoff - mcm.	0.816	0.719	2.386	10.866		374.544	911.261	606.960	127.777	6.908	1.897	2.347

WATER YEAR 1960 : Max. 429 Min. 0.15 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 31	18.00	7.73	429				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
LOP BURI RIVER BASIN

Lop Buri River at Wat Pho Ngam, Lop Buri (L.2)

Location: Lat $14^{\circ} - 47' - 46''$ N, Long $100^{\circ} - 36' - 39''$ E, on left bank in front of Wat Pho Ngam, 1 kilometer west of railway station, Amphoe Muang, Lop Buri.

Drainage Area: Flood plain, referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +1.64 m.(M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 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: 1950 - 61

Rating Operation:

Period of Rating: 1950
Rated by float: -
Rated by Current Meter: 1950

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage height record. Stage - discharge relation used is defined by discharge measurements during 1950. No state diversions above gage site.

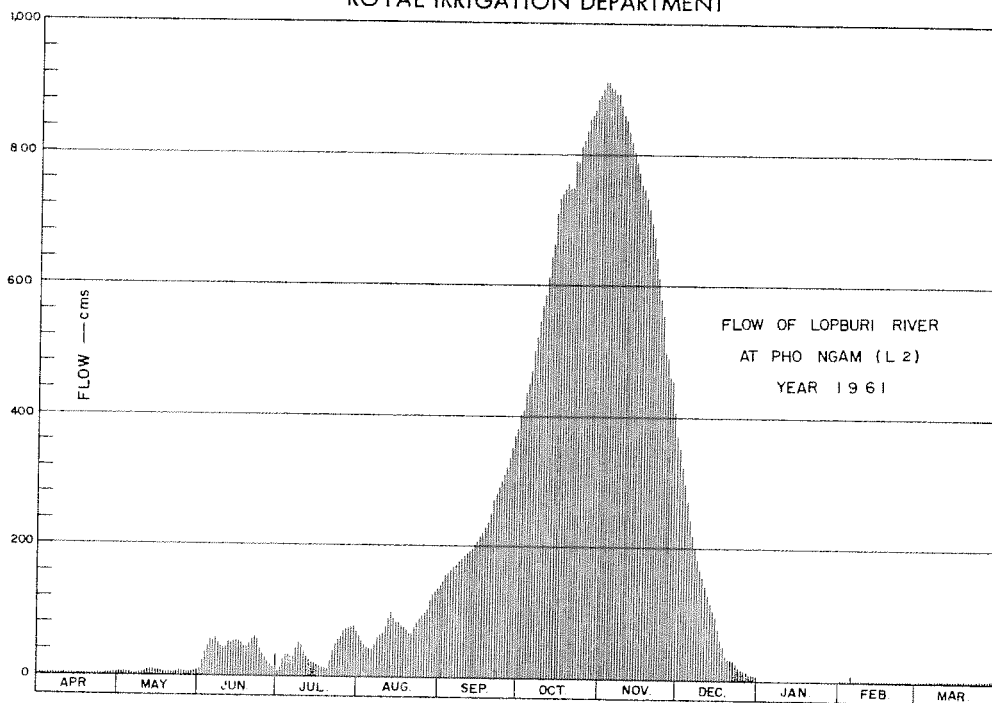
Remarks: No gage height record for Jan. 1 - 31

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.36	2.96	3.52	3.26	5.14	6.33	7.65	8.51	7.49		2.39	2.24
2	.35	.99	4.01	.58	4.99	.39	.68	.51	.40		.37	.24
3	.35	.99	.47	4.17	.84	.47	.75	.50	.30		.39	.24
4	.35	.92	.80	.41	.76	.50	.79	.50	.19		.40	.24
5	.35	.85	.99	.40	.70	.54	.84	.49	.06		2.36	.24
6	2.35	2.82	5.06	4.31	4.70	6.58	7.91	8.49	6.93		2.33	2.26
7	.36	.80	.01	.33	.87	.61	.96	.47	.82		.31	.28
8	.36	.78	4.92	.72	5.10	.65	8.01	.45	.70		.29	.29
9	.36	.85	.78	.92	.18	.68	.06	.44	.58		.28	.29
10	.37	3.06	.71	.82	.23	.70	.09	.42	.47		.27	.30
11	2.37	3.21	4.72	4.55	5.43	6.73	8.13	8.40	6.36		2.27	2.31
12	.37	.31	.93	.31	.67	.75	.17	.38	.20		.27	.31
13	.38	.33	.90	.10	.82	.78	.20	.36	.07		.26	.33
14	.38	.32	.97	3.98	.67	.82	.26	.34	5.92		.25	.35
15	.38	.28	.98	.94	.55	.86	.29	.32	.76		.24	.36
16	2.37	3.28	4.96	3.80	5.55	6.90	8.30	8.31	5.48		2.22	2.38
17	.37	.16	.87	.68	.48	.94	.31	.29	.13		.21	.39
18	.39	.10	.75	.62	.42	.99	.32	.27	4.94		.21	.40
19	.44	.04	.74	.54	.33	7.03	.31	.24	.55		.22	.42
20	.46	2.97	.87	.53	.27	.10	.31	.21	.36		.23	.45
21	2.48	2.90	5.03	4.10	5.27	7.19	8.36	8.17	4.32		2.24	2.44
22	.49	.95	.09	.63	.42	.23	.36	.13	.29		.25	.47
23	.50	3.07	.02	.89	.55	.27	.39	.08	.14		.25	.48
24	.51	.16	4.66	5.02	.66	.31	.40	.03	3.93		.25	.48
25	.53	.13	.40	.13	.72	.35	.42	7.91	.76		.24	.49
26	2.54	3.06	4.19	5.30	5.80	7.39	8.44	7.89	3.73		2.24	2.49
27	.72	.84	.01	.37	.89	.44	.45	.82	.62		.24	.51
28	.81	.02	3.81	.40	6.06	.59	.46	.75	.51		.24	.56
29	.91	.06	.61	.41	.16	.55	.48	.67	.47			.59
30	.94	.17	4.41	.43	.20	.59	.49	.56	.35			.63
31		.35		.31	.26		.50		.28			.67
Mean	2.46	3.06	4.64	4.45	5.44	6.94	8.20	8.23	5.36		2.31	2.39
Max.	2.94	3.35	5.09	5.43	6.26	7.59	8.50	8.51	7.49		3.36	2.67
Min.	2.35	2.78	3.52	3.26	4.70	6.33	7.65	7.56	3.28		2.21	2.24

WATER YEAR 1961 : Max. 8.51 m. Min. 2.21 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.92	4.60	11	7.60	62	142	402	910	352		0.98	0.68
2	0.92	4.90	22	13	55	148	411	910	325		0.94	0.68
3	0.92	4.90	35	26	49	157	436	900	298		0.98	0.68
4	0.90	4.20	47	33	45	160	450	900	272		1.00	0.68
5	0.90	3.50	55	33	43	165	470	892	244		0.92	0.68
6	0.90	3.20	53	30	43	170	500	892	220		0.86	0.72
7	0.92	3.00	56	31	50	173	522	876	203		0.82	0.76
8	0.92	2.90	51	44	60	179	545	860	185		0.78	0.78
9	0.92	3.50	46	52	64	182	570	852	170		0.76	0.78
10	0.94	5.60	43	48	67	185	585	836	157		0.74	0.80
11	0.94	7.10	44	38	77	190	613	820	145		0.74	0.82
12	0.94	8.10	52	30	90	193	643	804	130		0.72	0.82
13	0.96	8.30	51	25	100	197	665	788	119		0.72	0.86
14	0.96	8.20	54	22	90	203	710	772	107		0.70	0.90
15	0.96	7.80	54	21	83	209	733	756	96		0.68	0.92
16	0.94	7.80	53	17	83	215	740	748	79		0.64	0.96
17	0.94	6.60	50	15	79	222	748	733	62		0.62	0.98
18	0.98	6.00	45	13	76	231	756	718	53		0.62	1.00
19	1.20	5.40	45	12	72	239	748	695	37		0.64	1.10
20	1.30	4.70	50	12	69	252	748	673	32		0.66	1.25
21	1.40	4.00	57	25	69	272	788	643	31		0.68	1.20
22	1.45	4.50	60	40	76	281	788	613	30		0.70	1.35
23	1.50	5.70	56	51	83	291	812	580	26		0.70	1.40
24	1.55	6.60	41	56	90	301	820	555	20		0.70	1.40
25	1.65	6.30	33	62	94	312	836	500	16		0.68	1.45
26	1.70	5.60	27	70	99	322	852	491	16		0.68	1.45
27	2.60	5.40	22	74	105	337	860	462	13		0.68	1.55
28	3.10	5.20	17	75	118	352	868	436	10		0.68	1.56
29	3.10	5.60	15	76	126	370	884	408	10			1.95
30	4.40	6.70	33	77	130	382	892	373	8.50			2.15
31		8.50		71	135		900		7.80			2.35
Total	41.73	174.40	1,276	1,199.60	2,482	7,032	21,295	21,396	3,474.30		21.02	34.66
Mean	1.39	5.62	42.51	38.7	80.1	234	686.9	713.2	112.1		0.75	1.12
Max.	4.40	8.50	60	77	135	382	900	910	352		1.00	2.35
Min.	0.90	2.90	11	7.60	43	142	402	373	7.80		0.62	0.68
Runoff - mcm.	3.605	15.868	110.246	103.645	214.445	607.564	1,839.888	1,848.614	300.179		1.816	2.994

WATER YEAR 1961 : Max. 910 Min. 0.62 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 31	18.00	8.51	910				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Saraburi (S.2)

Location: Lat $14^{\circ} - 35' - 32''$ N, Long $101^{\circ} - 00' - 23''$ E, on right bank, 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khao, Saraburi.

Drainage Area: 14,396 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 m.(M.S.L.)

Bench Mark: B.M. - S.2

Location: On left bank near the gage site.
Elevation: +20.130 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1914 to date.

Rating Operation:

Period of Rating: 1945, 1947 - 48, 1959 - 61, 1965 to date.
Rated by float: 1945, 1947 - 48
Rated by Current Meter: 1959 - 61, 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment but periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

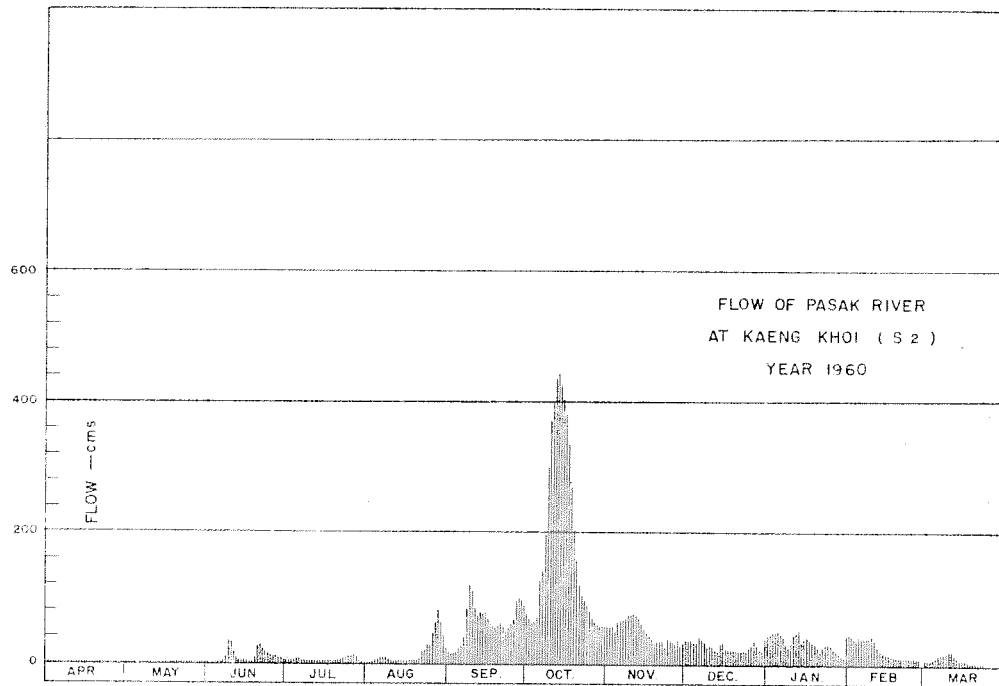
General Description: Records fair. The data presented is made by discharge measurement during 1960. Water stage for dry periods are effected by backwater from Rama VI Barrage. Upstream diversions for irrigation of about 3,000 hectares at Lom Sak Weir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.86	6.82	6.96	7.10	7.00	7.46	8.49	8.24	7.85	8.00	8.03	7.15
2	.86	.82	.96	.07	6.98	.40	.39	.22	.86	.03	7.99	.13
3	.86	.83	.94	.08	7.04	.43	.31	.22	.84	.07	.90	.12
4	.86	.85	.94	.12	.23	.48	.33	.10	.79	.09	.89	.18
5	.86	.84	.94	.18	.22	.61	.44	.29	.77	.12	.98	.27
6	6.86	6.85	6.92	7.18	7.25	7.71	8.99	8.34	7.89	8.03	8.02	7.36
7	.86	.82	7.05	.10	.25	.93	9.26	.38	.90	7.97	.01	.41
8	.86	.82	.29	.05	.24	8.59	.74	.42	.81	.74	.02	.44
9	.86	.82	.85	.04	.19	9.02	10.72	.47	.70	.63	.03	.47
10	.86	.82	.84	.04	.09	8.92	11.27	.47	.72	.87	7.99	.49
11	6.86	6.82	7.53	7.03	7.07	8.62	11.58	8.50	7.65	8.04	7.85	7.54
12	.86	.82	.19	.03	.08	.47	.79	.48	.54	.09	.61	.32
13	.86	.82	.08	.02	.10	.52	.88	.41	.55	.09	.50	.20
14	.88	.82	.05	.02	.09	.50	.80	.29	.75	7.89	.46	.16
15	.88	.82	.02	.02	.09	.54	11.62	.17	.80	.92	.40	.12
16	6.87	6.82	7.01	7.04	7.10	8.41	11.42	8.08	7.60	7.93	7.35	7.07
17	.86	.82	.00	.04	.10	.31	.14	7.98	.57	.88	.31	.00
18	.86	.94	6.98	.04	.12	.21	10.67	.87	.55	.80	.29	6.94
19	.86	.95	7.26	.05	.12	.18	.22	.85	.55	.75	.26	.90
20	.86	.97	.69	.10	.11	.23	9.52	.84	.54	.67	.25	.88
21	6.86	6.96	7.73	7.12	7.27	8.28	9.10	7.86	7.54	7.55	7.24	6.86
22	.85	.96	.60	.13	.52	.19	8.89	.85	.53	.69	.23	.84
23	.84	.96	.48	.26	.53	.07	.79	.64	.52	.23	.22	.82
24	.84	.96	.40	.29	.73	.19	.69	.87	.53	.75	.23	.81
25	.83	.96	.34	.31	.73	.26	.58	.87	.65	.70	.23	.81
26	6.82	6.96	7.29	7.32	8.05	8.38	8.45	7.80	7.74	7.59	7.22	6.80
27	.82	.95	.30	.37	.35	.74	.32	.76	.84	.53	.21	.79
28	.82	.95	.22	.23	.59	.82	.25	.87	.73	.43	.21	.79
29	.82	.95	.18	.04	.30	.78	.24	.75	.56	.31		.79
30	.82	.95	.15	.02	.00	.68	.22	.80	.56	.30		.78
31		.95		.01	7.63		.21		.94	.96		.78
Mean	6.85	6.88	7.24	7.11	7.39	8.26	9.59	8.09	7.69	7.81	7.57	7.34
Max.	6.88	6.97	7.85	7.37	8.59	9.02	11.88	8.50	7.94	8.12	8.03	7.54
Min.	6.82	6.82	6.92	7.01	6.98	7.40	8.21	7.64	7.52	7.50	7.21	6.78

WATER YEAR 1960 : Max. 11.88 m. Min. 6.78 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.20	1.40	4.20	7.00	5.00	17	76	59	11	12	12	3.50
2	2.20	1.40	4.20	6.40	4.60	15	69	57	9.40	12	12	3.34
3	2.20	1.60	3.80	6.60	5.80	16	64	57	12	13	11	3.26
4	2.20	1.60	3.80	7.40	9.90	18	65	49	9.30	13	10	2.88
5	2.20	1.80	3.80	8.60	9.60	23	73	62	9.20	14	12	3.56
6	2.20	1.60	3.40	8.60	10	28	116	66	9.40	17	12	4.28
7	2.20	1.40	6.00	7.00	10	39	141	69	9.40	15	12	4.70
8	2.20	1.40	12	6.00	10	85	189	71	9.40	11	12	5.00
9	2.20	1.40	35	5.80	8.80	119	306	75	8.90	8.88	12	5.30
10	2.20	1.40	34	5.80	6.80	110	378	75	9.00	13	12	5.50
11	2.20	1.40	20	5.60	6.40	86	421	77	8.30	17	13	6.00
12	2.20	1.40	8.80	5.60	6.60	75	451	76	6.80	19	8.56	5.00
13	2.20	1.40	6.60	5.40	7.00	78	463	71	6.95	19	7.00	3.90
14	2.60	1.40	6.00	5.40	6.80	77	452	62	7.80	13	6.52	3.55
15	2.60	1.40	5.40	5.40	6.80	79	427	54	9.20	11	5.80	3.26
16	2.40	1.40	5.20	5.80	7.00	71	388	48	8.40	11	5.30	2.89
17	2.20	1.40	5.00	5.80	7.00	64	365	42	7.98	13	4.90	2.40
18	2.20	3.80	4.60	5.80	7.40	57	322	36	7.70	12	4.71	2.04
19	2.20	4.00	11	6.00	7.40	55	270	35	7.70	11	4.44	1.80
20	2.20	4.40	27	7.00	7.20	58	163	34	7.55	9.52	4.35	1.70
21	2.20	4.20	29	7.40	11	62	126	12	7.56	7.70	4.26	1.60
22	2.00	4.20	23	7.60	20	55	107	13	7.42	7.68	4.17	1.50
23	1.80	4.20	18	11	20	47	99	10	7.28	8.22	4.08	1.40
24	1.80	4.20	15	12	28	55	91	9.99	7.42	8.50	4.17	1.35
25	1.60	4.20	13	12	28	60	83	9.99	7.20	7.80	4.17	1.35
26	1.40	4.20	12	13	46	69	74	9.90	8.36	8.26	4.07	1.30
27	1.40	4.00	12	14	66	95	64	10	9.76	7.42	3.99	1.25
28	1.40	4.00	10	9.90	85	102	60	8.99	10	6.16	3.99	1.25
29	1.40	4.00	8.60	5.60	63	98	59	9.40	7.84	4.90		1.25
30	1.40	4.00	8.00	5.40	43	90	57	9.30	7.84	4.71		1.20
31		4.00		5.20	24		57		11	11		1.20
Total	61.40	82.20	358.40	230.30	582.10	1,901	6,076	1,277.57	267.07	346.75	214.48	88.54
Mean	2.05	2.65	11.9	7.43	18.8	63.4	196	42.6	8.61	11.2	7.66	2.86
Max.	2.60	4.40	35	14	83	119	463	77	11	19	13	6.00
Min.	1.40	1.40	3.40	5.20	4.60	15	57	8.99	6.80	4.71	3.99	1.20
Runoff - mcm.	5.305	7.102	30.966	19.898	50.293	164.246	524.966	110.382	23.075	29.959	18.531	7.650

WATER YEAR 1960 : Max. 463 Min. 1.20 Mean 31.5 Annual Runoff 992.374 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	09.00	11.90	466				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Saraburi (S.2)

Location: Lat 14° - 35' - 32" N, Long 101° - 00' - 23" E, on right bank, 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.

Drainage Area: 14,396 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 m.(M.S.L.)

Bench Mark: B.M. - S.2

Location: On left bank near the gage site.
Elevation: +20.130 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1914 to date.

Rating Operation:

Period of Rating: 1945, 1947 - 48, 1959 - 61, 1965 to date.
Rated by Float: 1945, 1947 - 48
Rated by Current Meter: 1959 - 61, 1965 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

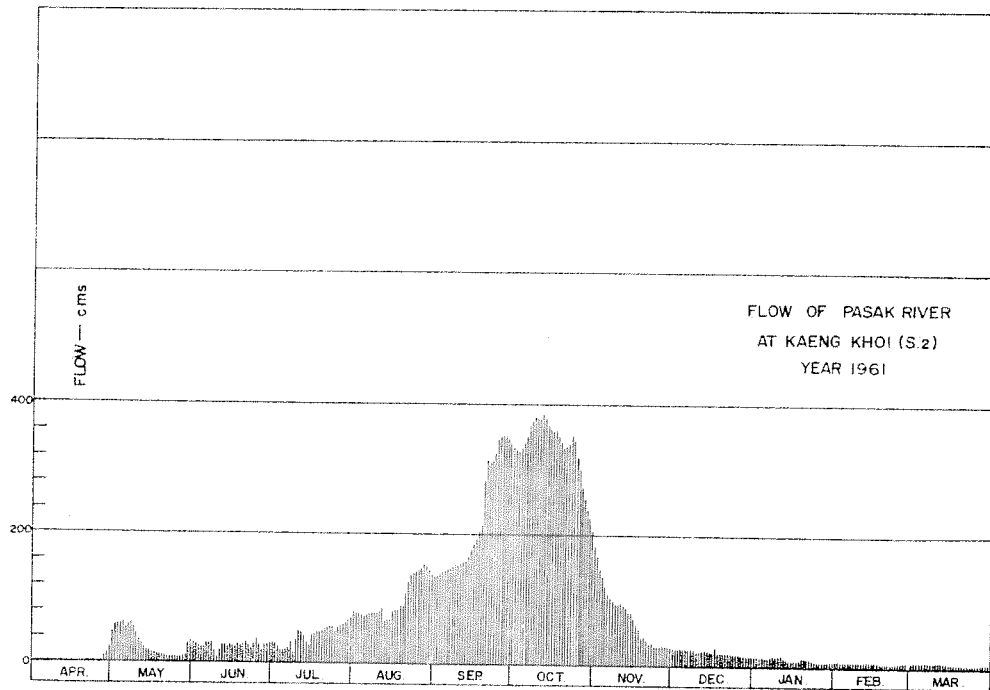
General Description: Records fair. The data presented is made by discharge measurement during 1961. Water stage for dry periods are effected by backwater from Rama VI Barrage. Upstream diversions for irrigation of about 3,000 hectares at Lon Sak Weir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.77	8.06	7.76	7.77	8.55	9.18	10.97	9.66	7.70	7.42	7.20	7.17
2	.77	.22	.71	.76	.51	.20	.94	.47	.69	.42	.23	.18
3	.76	.24	.67	.69	.49	.23	.94	.31	.69	.40	.18	.18
4	.76	.27	.63	.52	.47	.26	.99	.16	.69	.40	.18	.17
5	.75	.28	.66	.50	.46	.28	11.06	.00	.68	.39	.18	.20
6	6.74	8.14	7.75	7.60	8.49	9.30	11.14	8.89	7.67	7.36	7.21	7.20
7	.74	.24	.75	.61	.50	.31	.29	.83	.67	.40	.23	.20
8	.74	.31	.76	.39	.52	.34	.32	.76	.68	.44	.20	.21
9	.74	.16	.48	.45	.50	.37	.38	.73	.66	.45	.19	.20
10	.73	.01	.18	.90	.54	.36	.36	.73	.62	.44	.19	.19
11	6.73	7.85	7.56	8.11	8.57	9.37	11.36	8.74	7.62	7.49	7.18	7.18
12	.73	.72	.71	.06	.61	.40	.39	.70	.63	.38	.20	.17
13	.73	.56	.70	7.93	.41	.42	.32	.66	.65	.31	.22	.16
14	.73	.49	.62	.77	.36	.52	.25	.58	.62	.29	.22	.15
15	.73	.47	.70	.71	.37	.60	.21	.48	.60	.28	.21	.15
16	6.73	7.44	7.51	8.00	8.50	9.70	11.22	8.41	7.58	7.27	7.20	7.13
17	.73	.40	.63	.04	.57	.77	.21	.28	.57	.25	.17	.05
18	.73	.35	.74	.07	.58	.87	.12	.14	.55	.28	.15	.05
19	.73	.32	.67	.08	.64	10.01	.05	.01	.55	.39	.15	.04
20	.74	.29	.76	.10	.66	.58	10.98	.00	.54	.38	.15	.04
21	6.74	7.26	7.82	8.16	8.82	10.80	11.01	7.89	7.54	7.37	7.14	7.04
22	.74	.24	.68	.19	9.03	.79	.05	.85	.53	.35	.14	.03
23	.74	.23	.58	.22	.18	.83	.14	.81	.53	.25	.15	.03
24	.75	.21	.76	.20	.20	.94	.05	.74	.52	.20	.16	.02
25	.75	.20	.89	.10	.22	11.07	10.90	.74	.51	.17	.18	.02
26	6.75	7.18	7.71	8.20	9.26	11.12	10.67	7.74	7.49	7.18	7.19	7.00
27	.78	.19	.51	.26	.27	.13	.47	.77	.47	.21	.18	.03
28	7.19	.25	.74	.28	.35	.14	.27	.74	.44	.19	.18	.03
29	.41	.33	.74	.32	.34	.09	.16	.72	.43	.22	.02	.02
30	.61	.75	.75	.39	.28	.04	.05	.70	.44	.19	.01	.01
31	.83	.83	.44	.44	.21		9.87		.42	.18		6.98
Mean	6.81	7.66	7.67	7.95	8.76	10.00	10.97	8.41	7.58	7.32	7.18	7.10
Max.	7.61	8.31	7.89	8.44	9.35	11.14	11.39	9.66	7.70	7.49	7.23	7.21
Min.	6.73	7.18	7.18	7.39	8.36	9.18	9.87	7.70	7.42	7.17	7.14	6.98

WATER YEAR 1961 : Max. 11.39 m. Min. 6.73 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	51	33	33	88	139	320	182	30	17	9.00	8.10
2	0.70	62	30	33	85	141	316	165	29	17	9.90	8.40
3	0.60	63	28	29	85	144	316	151	29	16	8.40	8.40
4	0.60	66	26	21	82	146	323	137	29	16	8.40	8.10
5	0.50	66	28	20	81	148	332	124	29	16	8.40	9.00
6	0.40	56	32	25	83	150	344	115	28	14	9.30	9.00
7	0.40	63	32	25	84	151	367	110	28	16	9.90	9.00
8	0.40	69	33	16	86	154	372	105	28	18	9.00	9.30
9	0.40	57	19	18	84	156	383	102	28	18	8.70	9.00
10	0.30	48	8.40	41	87	155	379	102	26	18	8.70	8.70
11	0.30	38	23	54	90	156	379	103	26	20	8.40	8.40
12	0.30	31	30	51	93	159	384	100	26	15	9.00	8.10
13	0.30	28	30	43	85	161	372	97	27	12	9.60	7.80
14	0.30	20	26	33	73	170	361	90	26	12	9.60	7.50
15	0.30	19	30	30	74	177	354	82	25	11	9.30	7.50
16	0.30	18	20	47	84	186	355	77	24	11	9.00	6.90
17	0.30	16	26	49	90	192	354	66	23	11	8.10	5.00
18	0.30	14	32	51	90	201	341	56	22	10	7.50	5.00
19	0.30	13	28	52	95	214	331	48	22	16	7.50	4.80
20	0.40	12	33	53	97	273	321	47	22	15	7.50	4.80
21	0.40	11	36	57	110	298	325	40	22	14	7.20	4.80
22	0.40	10	29	59	126	297	331	38	21	14	7.20	4.60
23	0.40	9.90	24	62	139	302	344	36	21	11	7.50	4.60
24	0.50	9.30	33	60	141	316	331	32	21	9.30	7.80	4.40
25	0.50	9.00	40	53	143	334	311	32	20	8.10	8.40	4.40
26	0.50	8.40	30	60	146	341	283	32	20	8.40	8.70	4.00
27	0.80	8.70	20	65	147	342	261	33	19	9.30	8.40	4.60
28	8.70	10	32	66	154	344	240	32	18	8.70	8.40	4.60
29	16	13	32	70	154	337	229	31	17	9.60	8.70	4.40
30	25	32	32	75	148	330	218	30	18	8.70	8.70	4.20
31		37		79	142		201		17	8.40		3.60
Total	61.30	968.30	855.40	1,430	3,264	6,614	10,078	2,395	741	408.50	238.80	201.00
Mean	2.04	31.2	28.5	46.1	105	220	325	79.8	23.9	13.2	8.53	6.48
Max.	25	66	40	79	154	344	384	182	30	20	9.90	9.00
Min.	0.30	8.40	8.40	16	73	139	201	30	17	8.10	7.20	3.60
Runoff - mcm.	5.296	83.661	73.906	123.552	282.010	571.450	870.739	206.928	64.022	35.294	20.632	17.366

WATER YEAR 1961 : Max. 384 Min. 0.30 Mean 74.7 Annual Runoff 2,354.858 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	15.00	11.43	391				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Saraburi (S.2)

Location: Lat $14^{\circ} - 35' - 32''$ N, Long $101^{\circ} - 00' - 23''$ E, on right bank, 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.

Drainage Area: 14,396 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 m.(M.S.L.)

Bench Mark: B.M. - S.2

Location: On left bank near the gage site.

Elevation: +20.130 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1914 to date.

Rating Operation:

Period of Rating: 1945, 1947 - 48, 1959 - 61, 1965 to date.

Rated by Float: 1945, 1947 - 48

Rated by Current Meter: 1959 - 61, 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed but not included for flow computation.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1959 - 61 and Oct. 1962. Water stage for dry periods are effected by backwater from Rama VI Barrage. Upstream diversions for irrigation of about 3,000 hectares at Lom Sak Weir. No adjustment made for virgin flow.

Remarks: Overbank flow was observed for Sep. 24 - 30 and discharge was estimated.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.94	7.16	7.24	7.24	7.56	8.27	14.66	11.03	7.72	7.44	7.57	7.41
2	.91	.09	.20	.27	.58	.40	.50	10.81	.71	.42	.56	.41
3	.87	6.91	.19	.25	.57	.42	.27	.58	.70	.42	.56	.41
4	.86	.85	.13	.23	.58	.44	.04	9.86	.71	.41	.55	.40
5	.86	.83	.07	.22	.59	.46	13.88	.26	.73	.83	.55	.40
6	6.85	6.86	7.05	7.20	7.60	8.77	13.84	8.84	7.71	7.88	7.55	7.38
7	.84	.93	.06	.19	.57	.80	.66	.28	.70	.87	.53	.39
8	.82	7.15	.04	.20	.57	.62	.79	7.90	.69	.70	.51	.39
9	.82	.26	.05	.19	.52	.58	.90	.81	.69	.45	.51	.38
10	.81	.25	.12	.21	.48	9.02	.96	.76	.71	.42	.52	.39
11	6.81	7.20	7.34	7.20	7.43	10.50	14.31	7.73	7.71	7.49	7.52	7.39
12	.81	.31	.35	.17	.52	.38	.05	.71	.70	.77	.51	.38
13	.81	.28	.53	.28	.73	.16	13.93	.71	.70	.66	.51	.37
14	.80	.29	.58	.71	.71	.33	.75	.70	.71	.64	.52	.38
15	.80	.30	.60	.83	.73	.31	.32	.70	.72	.59	.51	.38
16	6.80	7.27	7.61	8.01	7.75	10.09	13.58	7.69	7.71	7.54	7.49	7.37
17	.80	.27	.64	9.00	.84	9.64	.63	.68	.71	.56	.47	.37
18	.80	.20	.56	10.88	.85	.36	.72	.68	.70	.66	.47	.36
19	.81	.20	.42	11.70	.81	.92	.81	.69	.69	.62	.47	.36
20	.81	.18	.33	.95	.89	11.18	.83	.70	.68	.57	.46	.36
21	6.84	7.14	7.36	12.02	7.89	12.19	13.88	7.70	7.71	7.60	7.45	7.35
22	.83	.10	.36	.05	.96	.99	.99	.68	.70	.65	.44	.34
23	.82	.07	.32	.07	8.01	13.03	14.10	.67	.69	.67	.44	.33
24	.81	.06	.36	11.90	.22	.13	13.99	.67	.64	.68	.43	.32
25	.83	.26	.40	.80	.07	.24	.77	.67	.60	.67	.43	.31
26	6.97	7.20	7.38	10.35	8.21	13.85	13.46	7.69	7.55	7.63	7.43	7.31
27	.98	.22	.46	9.44	.29	14.29	.03	.70	.52	.59	.42	.30
28	.92	.22	.43	8.40	.39	15.44	12.59	.70	.47	.58	.42	.25
29	.96	.21	.34	7.93	.48	.48	.14	.72	.46	.58	.58	.21
30	7.11	.20	.27	.82	.38	.17	11.56	.71	.41	.57	.57	.20
31		.22	.60	.60	.33		.30		.43	.57		.18
Mean	6.86	7.15	7.33	8.74	7.84	10.88	13.62	8.20	7.65	7.60	7.49	7.35
Max.	7.11	7.31	7.64	12.07	8.48	15.48	14.66	11.03	7.73	7.88	7.57	7.41
Min.	6.80	6.83	7.04	7.17	7.43	8.27	11.30	7.67	7.41	7.41	7.42	7.18

WATER YEAR 1962 : Max. 15.48 m. Min. 6.80 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
MAE KHONG RIVER BASIN

Mae Kok River at Mae Kok Bridge, Chiang Rai (G.2A)

Location: Lat 19°-55'-16" N, Long 99°-50'-57" E, on left bank about 200 meters downstream from the bridge on highway Chiang Rai - Mae Chan, Amphoe Muang, Chiang Rai.

Drainage Area: 2,088 sq.km. (only in Thailand) referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +389.00 m.(M.S.L.)

Bench Mark: H.S. No.1

Location: Infront of Muang Chiang Rai Police Station.

Elevation: +393.900 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60

Rated by Float: -

Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Unstable, no shifting adjustment but periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

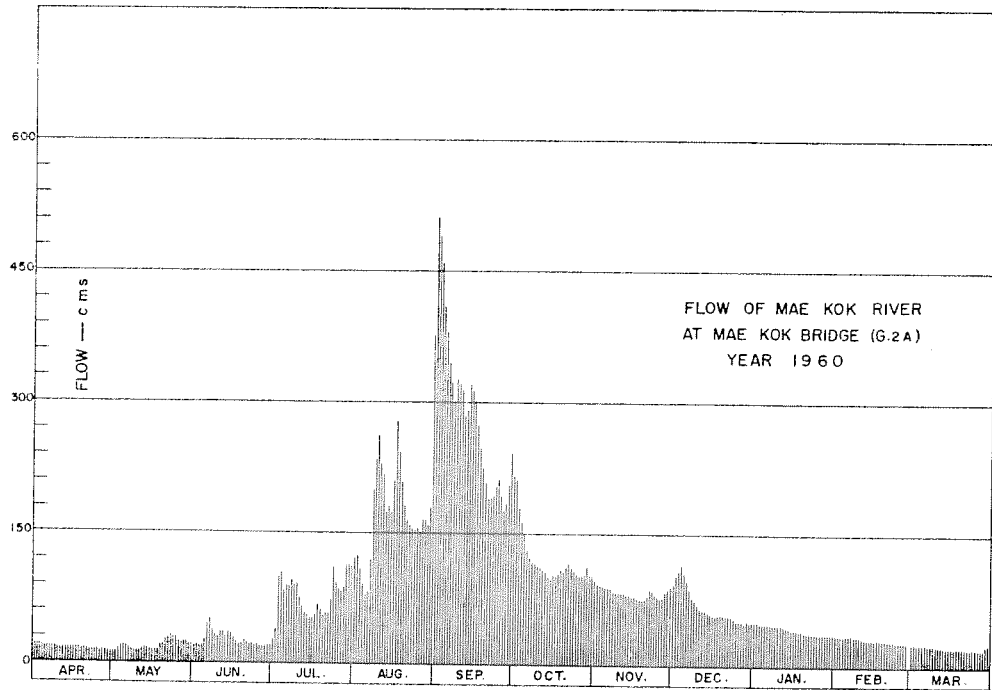
General Description: Records fair. The data presented is made by discharge measurement during 1960. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.25	390.14	390.24	390.40	391.06	392.47	391.50	390.88	390.84	390.58	390.44	390.34
2	.25	.13	.28	.50	.08	.40	.48	.84	.89	.58	.44	.34
3	.25	.18	.26	.93	390.99	.31	.33	.82	.91	.57	.44	.33
4	.24	.26	.27	391.03	.87	.17	.25	.81	.94	.57	.44	.32
5	.23	.26	.35	390.83	.80	.08	.18	.80	.90	.57	.44	.32
6	390.23	390.24	390.54	390.87	390.82	391.97	391.12	390.80	390.86	390.57	390.44	390.32
7	.23	.21	.61	.86	.96	.90	.08	.78	.82	.56	.44	.31
8	.23	.16	.48	.91	391.32	.82	.05	.77	.77	.56	.43	.31
9	.23	.17	.42	.88	.63	.91	.04	.76	.75	.56	.43	.31
10	.22	.15	.39	.88	.59	.90	.02	.77	.73	.55	.42	.30
11	390.22	390.16	390.45	390.78	391.51	391.87	391.02	390.76	390.70	390.55	390.41	390.30
12	.22	.20	.47	.69	.43	.77	.00	.75	.69	.54	.40	.29
13	.22	.23	.39	.64	.31	.79	390.98	.74	.69	.53	.39	.29
14	.22	.22	.45	.61	.34	.89	.95	.73	.68	.52	.39	.28
15	.21	.19	.43	.57	.30	.87	.93	.72	.67	.51	.39	.28
16	390.21	390.17	390.40	390.57	391.48	391.83	390.91	390.72	390.66	390.51	390.39	390.27
17	.21	.18	.30	.64	.74	.73	.90	.71	.66	.51	.39	.27
18	.21	.18	.29	.71	.61	.63	.93	.70	.66	.50	.39	.27
19	.20	.27	.30	.66	.47	.54	.96	.69	.66	.50	.38	.27
20	.19	.29	.38	.60	.35	.46	.95	.71	.66	.49	.38	.27
21	390.19	390.35	390.31	390.64	391.26	391.39	390.98	390.73	390.65	390.48	390.38	390.26
22	.18	.37	.29	.63	.23	.38	391.01	.79	.65	.48	.37	.26
23	.18	.41	.30	.76	.21	.40	390.97	.78	.64	.47	.37	.26
24	.17	.40	.28	391.00	.20	.45	.95	.74	.63	.47	.35	.25
25	.17	.39	.28	390.89	.21	.48	.93	.73	.61	.46	.35	.25
26	390.16	390.31	390.25	390.84	391.19	391.40	390.90	390.71	390.61	390.46	390.35	390.24
27	.15	.31	.24	.83	.27	.32	.91	.72	.61	.45	.35	.24
28	.15	.33	.26	.86	.27	.35	.92	.77	.60	.45	.35	.23
29	.15	.32	.25	391.02	.23	.46	.99	.78	.61	.45	.35	.23
30	.15	.29	.26	.03	.34	.61	.92	.81	.60	.45	.35	.23
31		.28		.01	392.03		.91		.60	.45		.36
Mean	390.20	390.25	390.35	390.78	391.29	391.75	391.03	390.76	390.71	390.51	390.40	390.29
Max.	390.25	390.41	390.61	391.03	392.03	392.47	391.50	390.88	390.94	390.58	390.44	390.36
Min.	390.15	390.13	390.24	390.40	390.80	391.32	390.90	390.69	390.60	390.45	390.35	390.23

WATER YEAR 1960 : Max. 392.47 m. Min. 390.13 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20	13	19	31	121	513	216	98	93	50	35	26
2	20	13	22	40	124	490	211	93	103	50	35	26
3	20	15	20	99	109	460	179	91	108	48	35	25
4	19	20	21	115	90	410	163	89	115	48	35	25
5	18	20	27	84	80	381	150	88	106	48	35	25
6	18	19	45	90	83	345	131	88	97	48	35	25
7	18	17	52	89	119	323	123	86	89	47	35	24
8	18	14	38	96	200	299	118	84	78	47	34	24
9	18	15	33	92	235	326	116	83	75	47	34	24
10	17	14	30	92	261	323	113	84	71	46	33	23
11	17	14	36	77	230	314	113	83	65	46	32	23
12	17	16	37	65	217	285	109	82	64	45	31	22
13	17	18	30	59	174	291	106	81	64	44	30	22
14	17	17	36	56	181	320	101	80	62	42	30	22
15	17	16	34	52	173	314	98	78	60	41	30	22
16	17	15	31	52	211	303	102	78	58	41	30	21
17	17	15	25	59	278	273	101	77	58	41	30	21
18	17	15	22	68	241	247	105	76	58	40	30	21
19	16	21	23	62	208	225	109	75	58	40	29	21
20	16	21	29	55	183	206	108	76	58	39	29	21
21	16	27	24	59	164	191	112	80	57	38	29	20
22	15	29	22	58	159	190	116	87	57	38	29	20
23	15	32	23	75	156	194	111	86	56	37	29	20
24	15	31	22	111	154	205	108	81	54	37	27	20
25	15	30	22	93	156	211	105	80	51	36	27	20
26	14	24	20	86	152	194	101	76	51	36	27	19
27	14	24	19	84	167	177	102	78	51	36	27	19
28	14	25	20	89	167	183	104	84	49	36	27	18
29	14	25	20	114	159	206	113	86	51	36	27	18
30	14	22	20	115	181	242	104	89	49	36	27	22
31		22		112	364		102		49	36		28
Total	500	619	822	2,429	5,497	8,641	3,750	2,497	2,115	1,300	869	694
Mean	16.6	19.9	27.4	78.3	177	288	121	83.2	68.2	41.9	31.0	22.3
Max.	20	32	52	115	364	513	216	98	115	50	35	28
Min.	14	13	19	31	80	177	98	75	49	36	27	18
Runoff - mcm.	43.200	53.462	71.021	209.868	474.941	746.582	324.000	215.741	182.736	112.320	75.082	59.962

WATER YEAR 1960 : Max. 513 Min. 13 Mean 81.4 Annual Runoff 2,568.931 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.1	15.00	392.51	526				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KHONG RIVER BASIN

Mae Kok River at Mae Kok Bridge, Chiang Rai (G.2A)

Location: Lat 19°-55'-16" N, Long 99°-50'-57" E, on left bank about 200 meters downstream from the bridge on highway Chiang Rai - Mae Chan, Amphoe Muang, Chiang Rai.

Drainage Area: 2,088 sq.km. (only in Thailand) referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +389.00 m.(M.S.L.)

Bench Mark: H.S. No.1

Location: Infront of Muang Chiang Rai Police Station.
Elevation: +393.900 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60

Rated by Float: -

Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment but periodic rating curves of 1958 - 60 are used for flow computation.

Overbank Flow Conditions: No overbank flow.

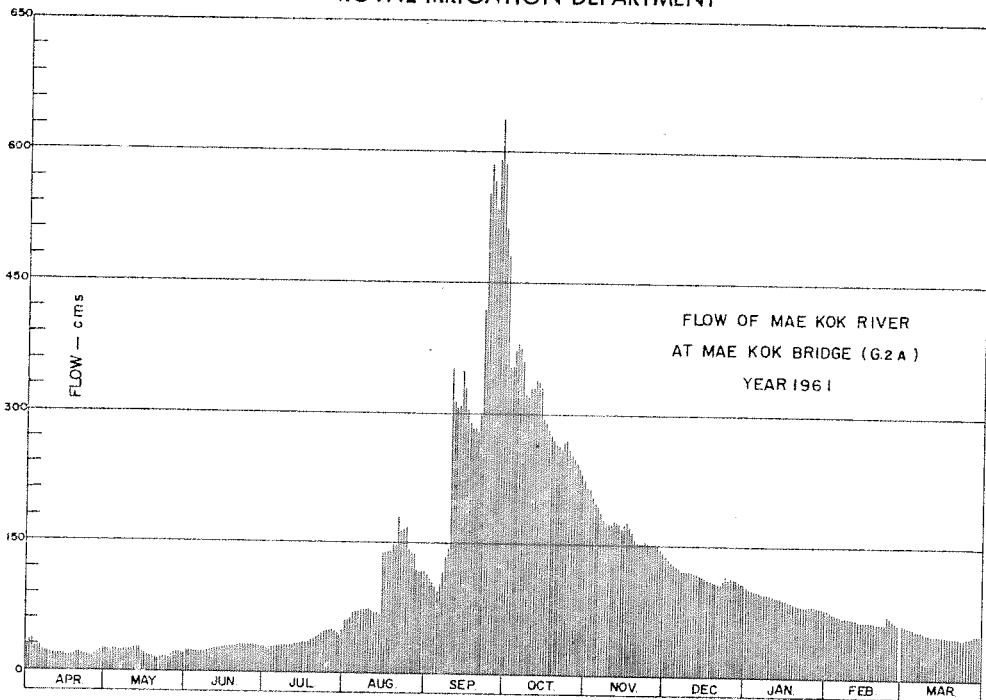
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1958 - 60. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.37	390.33	390.33	390.38	390.65	390.97	392.22	391.43	391.09	390.91	390.76	390.65
2	.43	.32	.33	.38	.65	.95	.11	.43	.08	.90	.75	.64
3	.45	.31	.32	.39	.70	.92	.04	.39	.06	.89	.74	.63
4	.40	.34	.32	.39	.71	.90	391.95	.37	.05	.89	.73	.63
5	.38	.33	.32	.40	.72	.86	.97	.35	.03	.88	.72	.62
6	390.36	390.33	390.32	390.40	390.72	390.92	391.94	391.32	391.02	390.88	390.72	390.61
7	.30	.33	.33	.41	.73	.99	.88	.29	.01	.87	.71	.60
8	.29	.34	.33	.41	.73	391.06	.80	.28	.01	.87	.71	.59
9	.28	.36	.33	.42	.74	.16	.79	.27	.01	.87	.71	.58
10	.27	.35	.35	.42	.74	.89	.83	.27	.01	.86	.70	.57
11	390.26	390.34	390.36	390.43	390.71	391.78	391.82	391.29	391.00	390.85	390.69	390.57
12	.26	.37	.36	.43	.71	.75	.85	.29	390.99	.85	.69	.56
13	.26	.38	.37	.44	.70	.76	.84	.26	.99	.84	.68	.56
14	.26	.36	.37	.44	.70	.88	.82	.24	.98	.84	.68	.56
15	.26	.30	.38	.45	391.10	.83	.71	.27	.97	.83	.68	.56
16	390.25	390.28	390.38	390.45	391.10	391.75	391.69	391.28	390.97	390.83	390.67	390.55
17	.25	.27	.39	.46	.11	.71	.66	.25	.96	.82	.67	.55
18	.25	.24	.39	.47	.11	.67	.64	.22	.95	.82	.67	.55
19	.29	.22	.40	.48	.15	.68	.63	.19	.94	.81	.67	.54
20	.28	.20	.40	.49	.15	.66	.61	.17	.94	.80	.66	.54
21	390.27	390.19	390.41	390.50	391.30	391.75	391.61	391.17	390.93	390.79	390.66	390.54
22	.26	.22	.41	.53	.22	392.26	.59	.17	.92	.79	.66	.54
23	.25	.23	.42	.54	.24	.43	.64	.18	.96	.79	.66	.53
24	.24	.24	.42	.55	.25	.46	.62	.17	.98	.79	.72	.53
25	.23	.23	.41	.56	.10	.42	.59	.16	.96	.79	.69	.55
26	390.22	390.29	390.41	390.56	391.10	392.35	391.57	391.17	390.97	390.79	390.68	390.55
27	.26	.30	.40	.57	.10	.44	.56	.17	.96	.78	.67	.55
28	.31	.31	.40	.55	390.99	.56	.54	.16	.96	.78	.66	.56
29	.32	.30	.39	.54	.99	.46	.51	.13	.94	.78	.67	.57
30	.33	.29	.39	.53	.99	.30	.48	.11	.93	.77	.67	.57
31		.28		.58	.99		.46		.93	.77		.56
Mean	390.29	390.30	390.37	390.47	390.93	391.72	391.74	391.25	390.98	390.83	390.69	390.57
Max.	390.45	390.38	390.42	390.58	391.30	392.56	392.22	391.43	391.09	390.91	390.76	390.65
Min.	390.22	390.19	390.32	390.38	390.65	390.86	391.46	391.11	390.92	390.77	390.66	390.53

WATER YEAR 1961 : Max. 392.56 m. Min. 390.19 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	28	25	25	29	62	114	426	157	83	53	33	21
2	34	24	25	29	62	110	376	157	81	51	32	20
3	36	23	24	30	69	105	346	147	77	50	31	20
4	31	26	24	30	70	101	313	142	76	50	30	20
5	29	25	24	31	72	94	320	138	72	49	28	19
6	27	25	24	31	72	105	309	131	70	49	28	18
7	22	25	25	32	73	118	288	124	69	47	27	17
8	21	26	25	32	73	131	261	122	69	47	27	16
9	21	27	25	33	75	151	258	119	69	47	27	15
10	20	26	26	33	75	352	271	119	69	46	26	14
11	19	26	27	34	70	315	268	124	67	45	25	14
12	19	28	27	34	70	305	278	124	65	45	25	14
13	19	29	28	35	69	309	275	117	65	45	25	14
14	19	27	28	35	69	348	268	115	64	43	24	14
15	19	22	29	36	139	331	233	119	62	42	24	14
16	18	21	29	36	139	305	227	122	62	42	23	13
17	18	20	30	37	141	293	218	115	61	40	23	13
18	18	18	30	38	141	281	212	109	59	40	23	13
19	21	16	31	39	149	284	209	102	58	39	23	12
20	21	15	31	40	149	278	203	98	58	38	22	12
21	20	14	32	41	181	305	203	98	56	37	22	12
22	19	16	32	45	163	494	198	98	55	37	22	12
23	18	17	33	47	168	570	212	100	61	37	22	12
24	18	18	33	48	170	585	206	98	64	37	28	12
25	17	17	32	49	139	565	198	96	61	37	25	13
26	16	21	32	49	139	533	198	98	62	37	24	13
27	19	22	31	51	139	575	190	98	61	35	23	13
28	23	23	31	48	118	636	185	96	61	35	22	14
29	24	22	30	47	118	566	177	90	58	35	22	14
30	25	21	30	45	118	468	169	86	56	34	22	14
31	21	21	30	52	118		164		56	34		14
Total	659	686	853	1,196	3,410	9,727	7,659	3,457	2,007	1,301	713	456
Mean	21.9	22.1	28.4	38.5	110	324	247	115	64.7	41.9	25.5	14.7
Max.	36	29	33	52	181	636	426	157	83	53	33	21
Min.	16	14	24	29	62	94	164	86	55	34	22	12
Runoff - BCM.	56.938	59.270	73.699	103.334	294.624	840.413	661.737	298.685	173.405	112.406	61.603	39.398

WATER YEAR 1961 : Max. 636 Min. 12 Mean 88.8 Annual Runoff 2,775.514 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 28	06.00	392.57	641				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

Mae Kok River at Mae Kok Bridge, Chiang Rai (G.2A)

Location: Lat 19° - 55' - 16" N, Long 99° - 50' - 57" E, on left bank about 200 meters downstream from the bridge on highway Chiang Rai - Mae Chan, Amphoe Muang, Chiang Rai.

Drainage Area: 2,088 sq.km. (only in Thailand) referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +389.00 m.(M.S.L.)

Bench Mark: H.S. No.1

Location: Infront of Muang Chiang Rai Police Station.
Elevation: +393.900 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 60
Rated by Float: -
Rated by Current Meter: 1958 - 60

Stability of Channel Regimes: Rather unstable, no shifting adjustment but periodic rating curves of 1958 - 60 are used for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1958 - 60. No state diversions for irrigation above gage site.

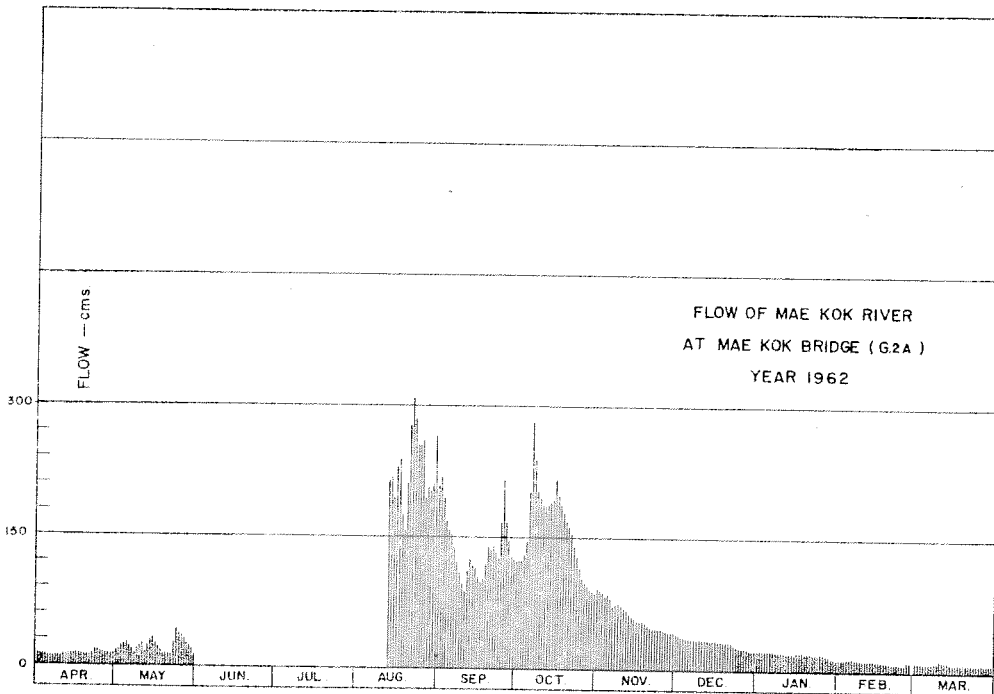
Remarks: No gage height record for Jun. 1 - Aug. 12

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.55	390.61				391.63	391.28	391.14	390.82	390.67	390.57	390.50
2	.54	.63				.67	.29	.13	.81	.67	.57	.50
3	.53	.67				.58	.29	.12	.80	.67	.57	.50
4	.52	.69				.48	.32	.10	.80	.66	.56	.49
5	.51	.69				.43	.39	.11	.79	.66	.56	.49
6	390.51	390.66				391.42	391.61	391.08	390.79	390.66	390.56	390.49
7	.51	.62				.36	.86	.03	.79	.66	.55	.49
8	.51	.58				.28	.73	.04	.78	.65	.55	.51
9	.50	.64				.22	.61	.05	.78	.65	.54	.51
10	.50	.67				.16	.58	.03	.78	.65	.54	.54
11	390.53	390.69				391.13	391.55	391.01	390.78	390.65	390.54	390.54
12	.54	.58				.24	.54	.00	.78	.64	.53	.51
13	.55	.68			391.65	.30	.55	390.98	.77	.64	.53	.51
14	.55	.74			.66	.27	.56	.96	.77	.64	.53	.49
15	.55	.77			.59	.25	.57	.94	.77	.64	.52	.48
16	390.55	390.71			391.70	391.21	391.66	390.93	390.77	390.65	390.52	390.47
17	.55	.66			.73	.17	.59	.93	.76	.65	.51	.47
18	.54	.61			.52	.19	.55	.92	.76	.65	.51	.47
19	.54	.56			.43	.27	.52	.91	.75	.64	.50	.47
20	.54	.56			.64	.36	.47	.89	.75	.64	.50	.46
21	390.54	390.55			391.85	391.34	391.45	390.88	390.75	390.64	390.49	390.46
22	.56	.55			.94	.36	.42	.87	.74	.63	.49	.46
23	.61	.72			.87	.33	.36	.87	.72	.63	.48	.46
24	.60	.83			.78	.30	.31	.86	.71	.63	.48	.46
25	.59	.80			.78	.51	.25	.86	.70	.62	.47	.45
26	390.58	390.79			391.70	391.65	391.20	390.85	390.69	390.61	390.47	390.45
27	.57	.75			.58	.47	.17	.84	.69	.60	.52	.45
28	.56	.71			.63	.39	.15	.83	.68	.59	.52	.45
29	.55	.67			.61	.31	.13	.83	.67	.58		.45
30	.57	.64			.65	.29	.12	.83	.67	.57		.45
31	.57	.56			.81		.11		.67	.57		.45
Mean	390.54	390.66				391.35	391.42	390.96	390.75	390.63	390.52	390.48
Max.	390.61	390.83				391.67	391.86	391.14	390.82	390.67	390.57	390.54
Min.	390.50	390.56				391.13	391.11	390.83	390.67	390.57	390.47	390.45

WATER YEAR 1962 : Max. 391.86 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	18				209	122	92	40	23	14	9.50
2	12	19				221	124	90	39	23	14	9.50
3	12	23				195	124	88	38	23	14	9.50
4	11	25				169	131	84	38	22	14	9.00
5	10	25				157	147	86	36	22	14	9.00
6	10	22				154	203	81	36	22	14	9.00
7	10	19				140	282	72	36	22	13	9.00
8	10	15				122	239	74	35	21	13	10
9	9.50	20				109	203	76	35	21	12	10
10	9.50	23				96	195	72	35	21	12	12
11	12	25				90	187	69	35	21	12	12
12	12	15				113	185	67	35	20	12	10
13	13	24			215	126	187	64	34	20	12	10
14	13	31			218	119	190	61	34	20	12	9.00
15	13	34			198	115	193	58	34	20	11	8.50
16	13	27			230	106	218	56	34	21	11	8.00
17	13	22			239	98	198	56	33	21	10	8.00
18	12	18			179	102	187	55	33	21	10	8.00
19	12	14			157	119	179	53	32	20	9.50	8.00
20	12	14			212	140	167	50	32	20	9.50	7.50
21	12	13			278	135	162	49	32	20	9.00	7.50
22	14	13			309	140	154	47	31	19	9.00	7.50
23	18	28			285	133	140	47	28	19	8.50	7.50
24	17	42			255	126	128	46	27	19	8.50	7.50
25	16	38			255	177	115	46	26	19	8.00	7.00
26	15	36			230	215	104	45	25	18	8.00	7.00
27	14	32			195	167	98	43	25	17	11	7.00
28	14	27			209	147	94	43	24	16	11	7.00
29	13	23			203	128	90	43	23	15	11	7.00
30	14	20			215	124	88	43	23	14	14	7.00
31		14			265		86		23	14		7.00
Total	379	719				4,192	4,920	1,856	991	614	316	264.50
Mean	12.6	23.1				140	159	61.8	31.9	19.8	11.3	8.53
Max.	18	42				221	282	92	40	23	14	12
Min.	9.50	14				90	86	43	23	14	8.00	7.00
Runoff - BCM.	32.746	62.122				362.189	425.088	160.358	85.622	53.050	27.302	22.853

WATER YEAR 1962 : Max. 282 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	18.00	391.95	313				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MAE KHONG RIVER BASIN

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

Location: Lat $17^{\circ} - 34' - 39''$ N, Long $102^{\circ} - 20' - 19''$ E, on right bank about 300 meters downstream from Huai Mong Dam site and 500 meters downstream from the confluence of Huai Nam Ban and Huai Pak Kong, Amphoe Ban Phu, Udon Thani.

Drainage Area: 1,307 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: + 0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: At the camp of station Kh.18
Elevation: +7.590 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.

Rated by Float: -

Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

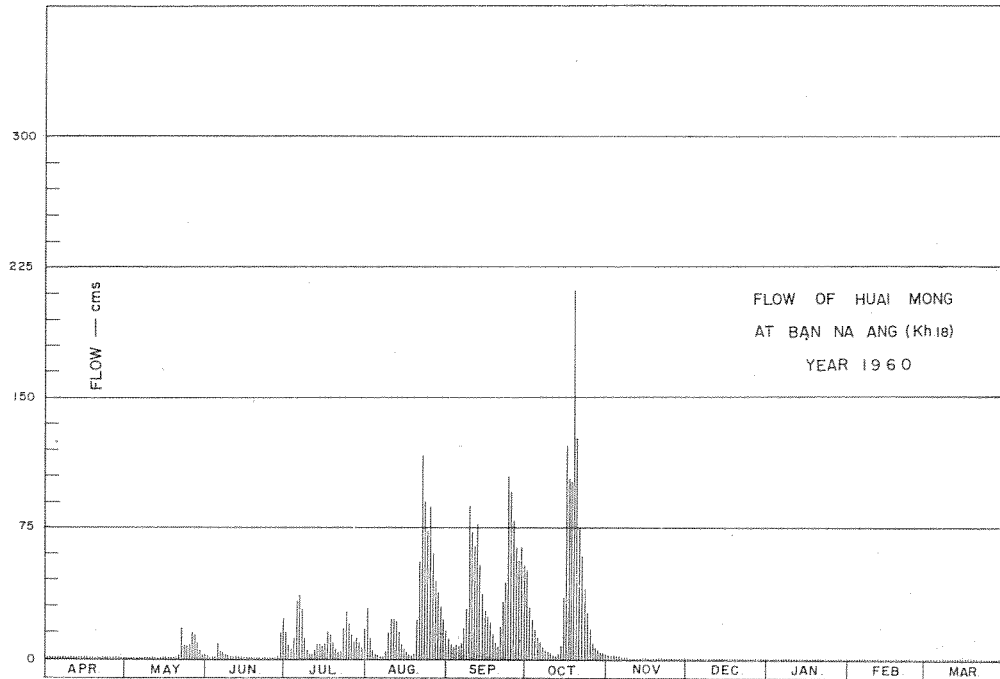
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1957 - 59. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.64	0.58	1.59	3.91	5.06	3.35	6.17	1.87	1.06	0.83	0.77	0.71
2	.64	.57	.34	2.89	3.56	3.04	5.17	.78	.04	.83	.79	.71
3	.65	.59	.20	2.49	2.49	2.71	4.46	.84	.02	.85	.77	.70
4	.65	.58	.57	3.57	1.96	3.02	.04	.82	.01	.86	.75	.74
5	.65	.57	3.06	5.36	1.75	2.84	3.62	.68	.00	.84	.73	.72
6	0.64	0.58	2.79	5.57	1.60	3.21	3.13	1.53	0.98	0.81	0.74	0.73
7	.62	.60	2.23	4.97	1.50	4.11	2.79	.48	.95	.83	.76	.71
8	.63	.98	1.92	3.56	2.36	5.53	.47	.37	.96	.82	.78	.72
9	.65	1.12	1.73	2.53	3.92	7.01	.23	.40	.95	.81	.78	.74
10	.65	0.86	1.56	1.95	4.53	6.74	.05	.31	.91	.79	.77	.77
11	0.64	0.82	1.36	1.92	4.54	6.57	1.84	1.25	0.94	0.80	0.76	0.76
12	.62	.78	1.21	2.39	4.39	6.81	.63	.27	.96	.78	.77	.73
13	.61	.79	1.08	3.00	3.92	6.31	.71	.25	.98	.77	.77	.72
14	.61	.77	0.97	3.06	2.94	5.56	3.04	.21	.95	.74	.72	.72
15	.65	.73	.92	2.78	2.45	4.86	5.45	.20	.93	.79	.72	.72
16	1.00	0.72	0.91	3.30	2.12	4.62	7.41	1.18	0.88	0.76	0.73	0.71
17	0.86	.69	.86	.92	1.86	4.42	.21	.17	.93	.76	.72	.70
18	.76	.66	.82	.72	1.75	3.67	.20	.16	.98	.74	.71	.72
19	.72	.64	.81	.05	2.14	3.07	.88	.18	.94	.76	.71	.70
20	.69	.81	.80	2.38	4.59	2.68	.45	.14	.93	.77	.72	.71
21	0.66	1.74	0.77	2.10	6.30	4.25	6.76	1.12	0.90	0.75	0.79	0.71
22	.64	3.97	.74	.43	7.36	5.45	.44	.11	.69	.78	.78	.73
23	.63	2.70	.72	4.10	7.04	6.11	5.69	.10	.92	.75	.75	.71
24	.62	2.80	.72	.91	6.76	7.24	4.87	.12	.88	.77	.72	.71
25	.60	2.98	.73	.31	7.01	7.12	.10	.11	.85	.78	.75	.71
26	0.59	3.83	0.76	3.66	6.55	6.85	3.26	1.10	0.87	0.76	0.73	0.70
27	.60	3.78	1.29	.24	5.95	.53	2.76	.07	.87	.80	.73	.70
28	.59	3.03	1.84	.52	5.70	.36	.44	.07	.87	.78	.71	.73
29	.58	2.45	3.96	.13	5.20	.56	.24	.06	.86	.76		.74
30	.58	1.98	4.57	2.70	4.57	.21	.12	.04	.86	.73		.74
31		1.78		3.99	3.78		1.98		.86	.76		.74
Mean	0.65	1.47	1.49	3.37	4.05	5.09	4.18	1.30	0.93	0.78	0.75	0.72
Max.	1.00	3.97	4.57	5.57	7.36	7.24	7.88	1.87	1.06	0.86	0.79	0.77
Min.	0.58	0.57	0.72	1.92	1.50	2.71	1.63	1.04	0.86	0.73	0.71	0.70

WATER YEAR 1960 : Max. 7.88 m. Min. 0.57 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.01	0.00	1.47	16	29	11	51	2.45	0.30	0.07	0.04	0.02
2	0.01	0.00	0.80	7.84	13	8.79	31	2.11	0.28	0.07	0.05	0.02
3	0.01	0.00	0.52	5.49	5.47	6.75	22	2.34	0.25	0.07	0.04	0.02
4	0.01	0.00	1.41	12	2.83	8.66	17	2.26	0.23	0.09	0.03	0.03
5	0.01	0.00	8.92	33	1.99	7.53	13	1.75	0.22	0.08	0.03	0.03
6	0.01	0.00	2.14	37	1.50	9.98	9.41	1.29	0.20	0.06	0.03	0.03
7	0.00	0.00	4.10	28	1.20	18	7.22	1.15	0.17	0.07	0.04	0.02
8	0.01	0.20	2.66	12	4.78	37	5.38	0.87	0.18	0.06	0.04	0.03
9	0.01	0.39	1.92	5.71	16	88	4.10	0.95	0.17	0.06	0.04	0.03
10	0.01	0.09	1.38	2.78	23	73	3.22	0.74	0.13	0.05	0.04	0.04
11	0.01	0.06	0.85	2.66	23	65	2.34	0.62	0.16	0.05	0.04	0.04
12	0.00	0.04	0.54	4.95	21	77	1.59	0.66	0.18	0.04	0.04	0.03
13	0.00	0.05	0.33	8.52	16	55	1.85	0.62	0.20	0.04	0.04	0.03
14	0.00	0.04	0.19	8.94	8.15	37	8.79	0.54	0.17	0.03	0.03	0.03
15	0.01	0.03	0.14	7.16	5.27	27	35	0.52	0.15	0.05	0.03	0.03
16	0.22	0.03	0.13	10	3.55	24	122	0.49	0.11	0.04	0.03	0.02
17	0.09	0.02	0.09	16	2.41	21	102	0.47	0.15	0.04	0.03	0.02
18	0.04	0.01	0.06	14	1.99	14	102	0.46	0.20	0.03	0.02	0.03
19	0.03	0.01	0.06	8.86	3.65	3.01	211	0.49	0.16	0.04	0.02	0.02
20	0.02	0.06	0.05	4.89	23	6.57	127	0.42	0.15	0.04	0.03	0.02
21	0.01	1.96	0.04	3.45	55	20	74	0.39	0.12	0.03	0.05	0.02
22	0.01	17	0.03	5.16	177	35	60	0.38	0.11	0.04	0.04	0.03
23	0.01	6.69	0.03	18	90	49	40	0.36	0.14	0.03	0.03	0.02
24	0.00	7.28	0.03	27	74	105	27	0.39	0.11	0.04	0.03	0.02
25	0.00	8.40	0.03	20	88	96	18	0.38	0.08	0.04	0.03	0.02
26	0.00	15	0.04	14	64	79	10	0.36	0.10	0.04	0.03	0.02
27	0.00	15	0.70	10	45	63	7.04	0.32	0.10	0.05	0.03	0.02
28	0.00	8.71	2.34	12	40	57	5.22	0.32	0.10	0.04	0.02	0.03
29	0.00	5.27	16	9.41	31	64	4.15	0.30	0.09	0.04	0.03	0.03
30	0.00	2.91	23	6.69	23	52	3.55	0.28	0.09	0.03	0.03	0.03
31	0.00	2.11	17	15	15	15	2.91	0.09	0.09	0.04	0.03	0.03
Total	0.54	91.36	70.00	388.51	848.79	1,224.29	1,128.77	24.68	4.89	1.50	0.95	0.81
Mean	0.02	2.95	2.33	12.5	27.4	40.8	36.4	0.82	0.16	0.05	0.03	0.03
Max.	0.22	17	23	37	117	165	211	2.45	0.30	0.09	0.05	0.04
Min.	0.00	0.00	0.03	2.66	1.20	6.75	1.59	0.28	0.09	0.03	0.02	0.02
Runoff - mcm.	0.047	7.893	6.048	33.567	73.335	105.779	97.526	2.132	0.422	0.130	0.082	0.070

WATER YEAR 1960 : Max. 211 Min. 0.00 Mean 10.4 Annual Runoff 327.032 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	12.00	7.92	222				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KHONG RIVER BASIN

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

Location: Lat 17°-34' - 39" N, Long 102°-20' - 19" E, on right bank about 300 meters downstream from Huai Mong Damsite and 500 meters downstream from the confluence of Huai Nam Ban and Huai Pak Kong, Amphoe Ban Phu, Udon Thani.

Drainage Area: 1,307 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: At the camp of station Kh.18
Elevation: +7.590 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

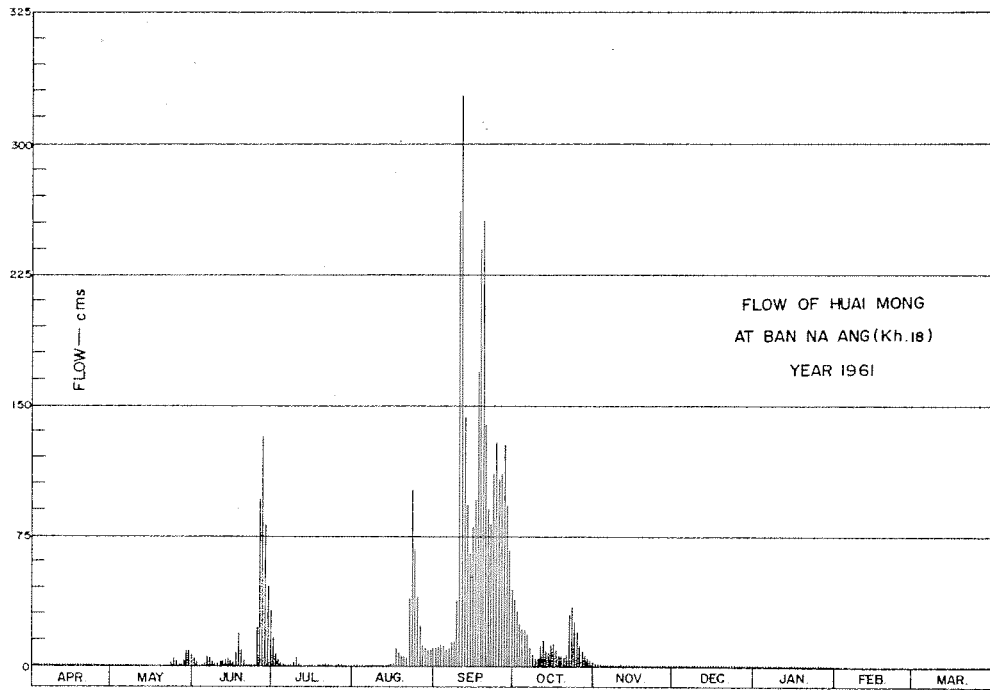
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1957 - 59. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.73	0.72	2.42	4.04	1.22	3.31	5.63	1.98	1.29	1.02	0.93	0.91
2	.72	.82	1.85	2.91	.16	.28	.22	.86	.27	1.00	.96	.92
3	.71	.81	.44	.33	.11	.54	4.63	.68	.31	0.99	.96	.91
4	.70	1.05	.62	.00	.08	.43	.46	.62	.36	1.04	.93	.92
5	.72	.08	.70	1.72	.04	.20	.48	.60	.32	1.03	.94	.93
6	0.71	0.93	2.72	1.39	1.07	3.34	4.16	1.62	1.24	1.05	0.94	0.92
7	.73	.79	.41	.37	.08	.73	3.43	.59	.17	.06	.92	.90
8	.73	.74	.05	.65	.04	.82	2.82	.52	.16	.09	.95	.89
9	.71	.75	1.70	.91	.00	5.63	.47	.47	.14	.08	.94	.92
10	.71	.74	.89	2.17	.00	7.79	.56	.58	.12	.04	.94	.93
11	0.71	0.72	2.06	1.91	1.09	8.27	3.50	1.63	1.13	1.06	0.94	0.90
12	.72	.86	.17	.58	.11	7.57	.90	.60	.13	.05	.93	.91
13	.71	.97	.31	.37	.20	6.69	.19	.59	.13	.04	.93	.89
14	.73	.93	.41	.22	.41	.58	2.87	.52	.10	.03	.92	.89
15	.72	.82	.21	.18	.77	.87	3.55	.43	.09	.03	.91	.93
16	0.70	0.77	1.91	1.15	2.72	7.12	3.70	1.45	1.09	1.03	0.93	0.93
17	.70	.69	2.87	.15	3.29	.36	.17	.48	.04	.02	.91	.94
18	.71	.70	4.27	.23	.04	.95	2.80	.49	.05	.01	.92	.92
19	.70	.82	3.12	.45	2.78	8.04	.62	.51	.06	0.99	.92	.90
20	.71	.77	2.06	.78	.63	7.55	.36	.45	.10	1.00	.91	.90
21	0.71	0.70	1.57	1.96	2.53	7.03	2.90	1.42	1.06	0.98	0.89	0.89
22	.70	.72	.29	.92	5.71	6.89	5.16	.41	.06	.99	.92	.92
23	.70	2.00	.37	.65	7.18	7.31	.41	.39	.08	.97	.94	.91
24	.71	.54	.15	.45	6.63	.47	4.87	.34	.08	.97	.92	.88
25	.71	.04	.27	.31	5.69	.25	.33	.33	.09	.98	.91	.88
26	0.72	1.77	6.93	1.65	4.66	7.31	3.63	1.34	1.06	0.98	0.91	0.87
27	.69	.56	7.49	.71	3.41	.45	.10	.30	.06	.97	.89	.86
28	.68	2.21	6.98	.28	.34	.21	2.69	.28	.00	.95	.88	.89
29	.69	3.20	6.17	.23	.19	6.62	.43	.30	0.98	.95	.89	.89
30	.70	.15	5.31	.22	.23	5.92	.28	.34	1.00	.94	.92	.92
31		2.84		.22	.39		.09		.02	.92		.94
Mean	0.71	1.26	2.82	1.68	2.61	6.19	3.56	1.50	1.12	1.01	0.92	0.91
Max.	0.73	3.20	7.49	4.04	7.18	8.27	5.63	1.98	1.36	1.09	0.96	0.94
Min.	0.68	0.69	1.15	1.15	1.00	3.28	2.09	1.30	0.98	0.92	0.88	0.86

WATER YEAR 1961 : Max. 8.27 m. Min. 0.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.03	0.03	5.11	17	0.56	11	39	2.91	0.70	0.25	0.15	0.13
2	0.03	0.06	2.37	7.96	0.46	11	32	2.41	0.66	0.22	0.18	0.14
3	0.02	0.06	1.05	4.62	0.38	13	24	1.75	0.74	0.21	0.18	0.13
4	0.02	0.29	1.56	3.00	0.38	12	22	1.56	0.85	0.28	0.15	0.14
5	0.03	0.33	1.81	1.88	0.28	9.90	22	1.50	0.77	0.26	0.16	0.15
6	0.02	0.15	6.81	0.93	0.32	11	19	1.56	0.60	0.29	0.16	0.14
7	0.03	0.05	5.05	0.87	0.33	14	12	1.47	0.47	0.30	0.14	0.12
8	0.03	0.03	3.22	1.65	0.28	15	7.40	1.26	0.46	0.35	0.17	0.11
9	0.02	0.03	1.81	2.61	0.22	39	5.38	1.12	0.42	0.33	0.16	0.14
10	0.02	0.03	2.53	6.75	0.22	188	5.88	1.44	0.39	0.28	0.16	0.15
11	0.02	0.03	3.27	2.61	0.35	327	12	1.59	0.41	0.30	0.16	0.12
12	0.03	0.09	3.79	1.44	0.38	143	16	1.50	0.41	0.29	0.15	0.13
13	0.02	0.19	4.51	0.87	0.52	87	9.83	1.47	0.41	0.28	0.15	0.11
14	0.03	0.15	5.65	0.56	0.97	65	7.71	1.26	0.36	0.26	0.14	0.11
15	0.03	0.06	3.99	0.49	2.07	80	13	1.02	0.35	0.26	0.13	0.15
16	0.02	0.04	2.61	0.44	1.88	96	14	1.07	0.35	0.26	0.15	0.15
17	0.02	0.02	7.71	0.44	11	117	9.69	1.15	0.28	0.25	0.13	0.16
18	0.02	0.02	20	0.58	8.78	230	7.28	1.17	0.29	0.23	0.14	0.14
19	0.02	0.06	9.34	1.07	7.16	256	6.22	1.23	0.30	0.21	0.14	0.12
20	0.02	0.04	3.27	2.11	6.28	140	4.78	1.07	0.36	0.22	0.13	0.12
21	0.02	0.02	1.41	2.83	5.71	90	7.90	1.00	0.30	0.20	0.11	0.11
22	0.02	0.03	0.70	2.66	40	81	31	0.97	0.30	0.21	0.14	0.14
23	0.02	3.00	0.87	1.65	100	111	35	0.93	0.33	0.19	0.16	0.13
24	0.02	5.76	0.44	1.07	68	129	27	0.80	0.33	0.19	0.14	0.11
25	0.02	3.18	0.66	0.74	40	106	20	0.79	0.35	0.20	0.13	0.11
26	0.03	2.07	83	1.65	24	111	13	0.80	0.30	0.20	0.13	0.10
27	0.02	1.38	132	1.85	12	127	9.20	0.72	0.30	0.19	0.11	0.09
28	0.02	3.99	86	0.68	11	102	6.63	0.68	0.22	0.17	0.11	0.11
29	0.02	9.90	51	0.58	9.83	67	5.16	0.72	0.20	0.17	0.11	0.11
30	0.02	9.55	33	0.56	10	45	4.36	0.80	0.22	0.16	0.14	0.14
31		7.53		0.56	11		3.40		0.05	0.14		0.16
Total	0.69	48.17	483.94	72.71	374.36	2,833.90	451.82	37.72	12.68	7.35	4.06	3.97
Mean	0.02	1.55	16.1	2.34	12.1	94.5	14.6	1.26	0.41	0.24	0.14	0.13
Max.	0.03	9.90	132	17	100	327	39	2.91	0.85	0.35	0.18	0.16
Min.	0.02	0.02	0.44	0.44	0.22	11	3.40	0.72	0.20	0.14	0.11	0.09
Runoff - mcm.	0.060	4.162	41.812	6.282	32.345	244.849	39.037	3.259	1.095	0.635	0.351	0.343

WATER YEAR 1961 : Max. 327 Min. 0.02 Mean 11.9 Annual Runoff 374,230 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.11	05.00	8.44	380				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

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

Location: Lat $17^{\circ} - 34' - 39''$ N, Long $102^{\circ} - 20' - 19''$ E, on right bank about 300 meters downstream from Huai Mong Damsite and 500 meters downstream from the confluence of Huai Nam Ban and Huai Pak Kong, Amphoe Ban Phu, Udon Thani.

Drainage Area: 1,307 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: At the camp of station Kh.18
Elevation: +7.590 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

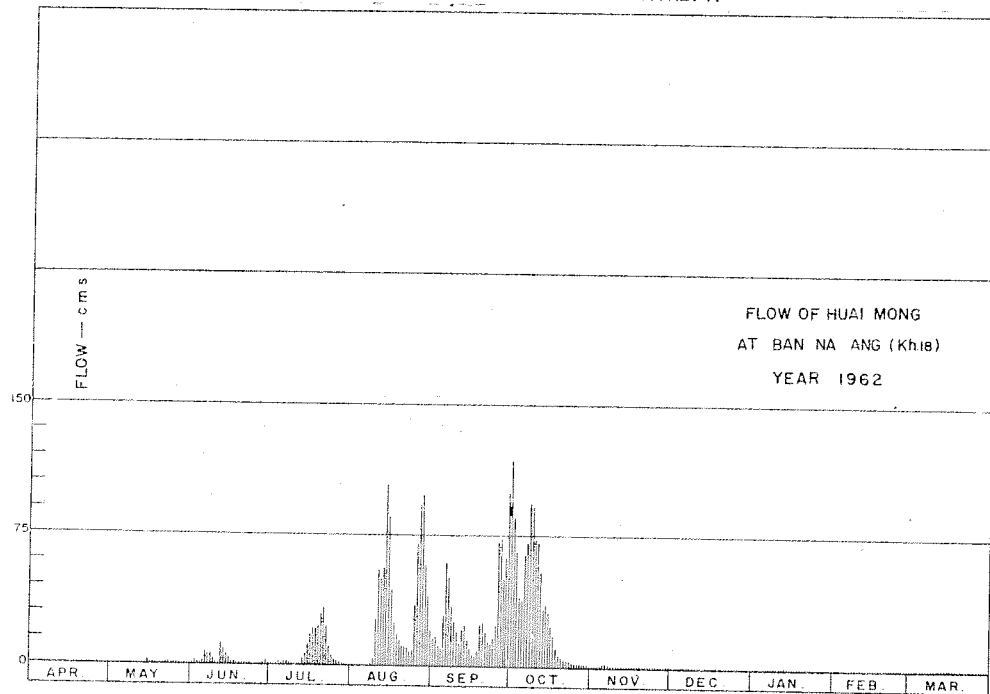
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1957 - 59. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	1.06	1.23	1.45	1.17	3.85	7.37	1.47	1.17	1.02	1.02	0.92
2	.91	.05	.72	.44	.13	.99	6.96	.50	.17	.01	.00	.95
3	.93	.04	.58	.95	.10	.43	.33	.55	.15	0.97	0.98	.94
4	.92	.03	.55	.68	.12	.10	5.60	.49	.15	.96	.97	.93
5	.94	.01	.81	.54	.18	4.93	.58	.62	.13	1.00	.95	.89
6	0.94	0.98	2.72	1.80	1.25	6.41	6.53	1.64	1.11	1.01	0.93	0.90
7	.93	.98	3.07	.75	.19	.13	.70	.62	.10	0.96	.93	.94
8	.92	.95	2.61	.66	.61	5.29	7.08	.58	.12	1.02	.93	.91
9	.92	.96	.14	.40	2.46	4.75	.06	.50	.08	0.98	.93	.88
10	.93	1.04	1.87	.35	4.79	.18	6.74	.48	.08	.95	.92	.88
11	0.94	1.04	1.95	1.33	6.32	3.45	6.71	1.48	1.09	0.96	0.92	0.88
12	.94	.02	3.31	.44	.05	4.36	.09	.43	.08	.98	.97	.87
13	.94	0.99	2.92	2.09	.35	.52	5.21	.42	.06	.94	1.00	.88
14	1.01	1.11	.41	.70	7.22	3.80	.44	.41	.09	.90	0.96	.89
15	0.95	.68	.23	3.52	6.94	.17	.15	.42	.08	.96	.95	.88
16	0.92	1.50	1.93	4.07	5.82	2.75	4.51	1.42	1.07	0.95	0.98	0.88
17	.91	.31	.60	.40	4.81	.54	.11	.41	.09	.98	.97	.90
18	.94	.17	.42	.41	.08	3.22	3.32	.37	.09	.95	.90	.90
19	.94	.10	.46	.51	3.74	4.69	2.78	.35	.07	.93	.96	.89
20	.91	.20	.45	5.01	.29	.76	.46	.32	.07	.96	.97	.89
21	0.89	1.27	1.44	5.28	3.29	4.16	2.36	1.31	1.07	0.95	0.96	0.88
22	.96	.38	.37	4.49	.31	3.64	.18	.27	.06	.94	.99	.93
23	.94	.54	.28	3.31	.03	.41	.05	.25	.07	.93	.97	.90
24	.93	.43	.19	2.56	.11	.86	1.89	.28	.01	.95	.95	.90
25	.94	.48	.12	.17	4.88	4.44	.75	.26	.06	.98	.93	.90
26	0.93	1.37	1.06	1.86	6.69	6.71	1.70	1.23	1.01	0.98	0.95	0.92
27	.99	.27	.11	.66	7.07	.77	.72	.25	.03	1.02	.93	.89
28	1.05	.26	.57	.48	7.14	.15	.68	.22	0.98	.03	.93	.89
29	.03	.23	.80	.39	6.37	.51	.64	.19	1.02	.04	.95	.95
30	.03	.18	.57	.28	5.37	7.16	.61	.17	.00	.11	.92	.92
31		.16	.22	.22	4.13		.51		0.98	.08		.86
Mean	0.94	1.19	1.82	2.46	4.06	4.54	4.25	1.40	1.07	0.98	0.95	0.90
Max.	1.05	1.68	3.31	5.28	7.22	7.16	7.37	1.64	1.17	1.11	1.02	0.95
Min.	0.89	0.95	1.06	1.22	1.10	2.54	1.51	1.17	0.98	0.90	0.90	0.87

WATER YEAR 1962 : Max. 7.37 m. Min. 0.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.30	0.58	1.07	0.47	15	118	1.12	0.47	0.25	0.25	0.14
2	0.13	0.26	1.88	1.05	0.41	17	85	1.20	0.47	0.23	0.22	0.17
3	0.15	0.28	1.44	0.78	0.36	12	56	1.35	0.44	0.19	0.20	0.16
4	0.14	0.26	1.35	1.75	0.39	9.20	38	1.17	0.44	0.18	0.19	0.15
5	0.16	0.23	2.22	1.32	0.49	28	38	1.56	0.41	0.22	0.17	0.11
6	0.16	0.20	6.81	2.18	0.62	59	63	1.62	0.38	0.23	0.15	0.12
7	0.15	0.20	5.99	1.99	0.50	50	71	1.56	0.36	0.18	0.15	0.16
8	0.14	0.17	6.16	1.69	1.53	33	93	1.44	0.39	0.25	0.15	0.13
9	0.14	0.18	3.65	0.95	5.32	25	92	1.20	0.33	0.20	0.15	0.11
10	0.15	0.28	0.45	0.82	26	19	73	1.15	0.33	0.17	0.14	0.11
11	0.16	0.28	0.78	0.79	55	12	71	1.15	0.35	0.18	0.14	0.11
12	0.16	0.25	11	1.05	48	21	49	1.02	0.33	0.20	0.19	0.10
13	0.16	0.21	8.02	3.40	56	23	32	1.00	0.30	0.16	0.22	0.11
14	0.23	0.38	5.05	6.69	103	15	35	0.97	0.35	0.12	0.18	0.11
15	0.17	1.75	4.10	12	84	9.69	31	1.00	0.33	0.18	0.17	0.11
16	0.14	1.20	0.70	18	42	6.95	22	1.00	0.32	0.17	0.20	0.11
17	0.13	0.74	1.50	21	26	5.76	18	0.97	0.35	0.20	0.19	0.12
18	0.16	0.47	1.00	21	18	10	11	0.87	0.35	0.17	0.12	0.12
19	0.16	0.36	1.10	22	14	24	7.16	0.82	0.32	0.15	0.18	0.11
20	0.13	0.52	1.08	29	11	25	5.32	0.77	0.32	0.18	0.19	0.11
21	0.11	0.66	1.05	33	11	19	4.78	0.74	0.32	0.17	0.18	0.11
22	0.18	0.90	0.87	22	11	14	3.84	0.66	0.30	0.16	0.21	0.15
23	0.16	1.32	0.68	11	8.71	12	3.22	0.62	0.32	0.15	0.19	0.12
24	0.15	1.02	0.50	5.88	9.27	16	2.53	0.68	0.23	0.17	0.17	0.12
25	0.16	1.15	0.39	3.79	27	22	1.99	0.64	0.30	0.20	0.15	0.12
26	0.15	0.87	0.50	2.41	76	71	1.81	0.58	0.23	0.20	0.17	0.14
27	0.20	0.66	0.38	1.69	92	74	1.88	0.62	0.26	0.25	0.15	0.11
28	0.29	0.64	1.41	1.15	97	50	1.75	0.56	0.20	0.26	0.15	0.11
29	0.26	0.58	2.18	0.93	57	62	1.62	0.50	0.25	0.28	0.17	0.17
30	0.26	0.49	1.41	0.68	34	99	1.53	0.47	0.22	0.38	0.14	0.14
31		0.46		0.56	18		1.23		0.20	0.33		0.11
Total	4.96	17.27	74.03	231.62	928.07	858.63	1,034.66	29.01	10.17	6.36	4.92	3.87
Mean	0.16	0.56	2.47	7.47	29.9	28.6	33.4	0.97	0.33	0.20	0.17	0.12
Max.	0.29	1.75	11	33	103	99	118	1.62	0.47	0.38	0.25	0.17
Min.	0.11	0.17	0.30	0.56	0.36	5.76	1.23	0.47	0.20	0.12	0.12	0.10
Runoff - mcm.	0.428	1.492	6.396	20.012	60.185	74.186	89.395	2.506	0.879	0.549	0.425	0.334

WATER YEAR 1962 : Max. 118 Min. 0.10 Mean 8.78 Annual Runoff 276.788 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.1	03.00	7.42	123				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MAE KHONG RIVER BASIN

Nam Oon at Phanna Nikhom, Sakon Nakhon (Kh.20)

Location: Lat 17° - 20' - 49" N, Long 103° - 51' - 06" E, on right bank near Phanna Nikhom Market, Amphoe Phanna Nikhom, Sakon Nakhon.

Drainage Area: 1,199 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +156.27 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department

Location: Near the district office of Amphoe Phanna Nikhom.

Elevation: +164.083 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: 1955 to date.

Rating Operation:

Period of Rating: 1956 - 62

Rated by Float: -

Rated by Current Meter: 1956 - 62

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

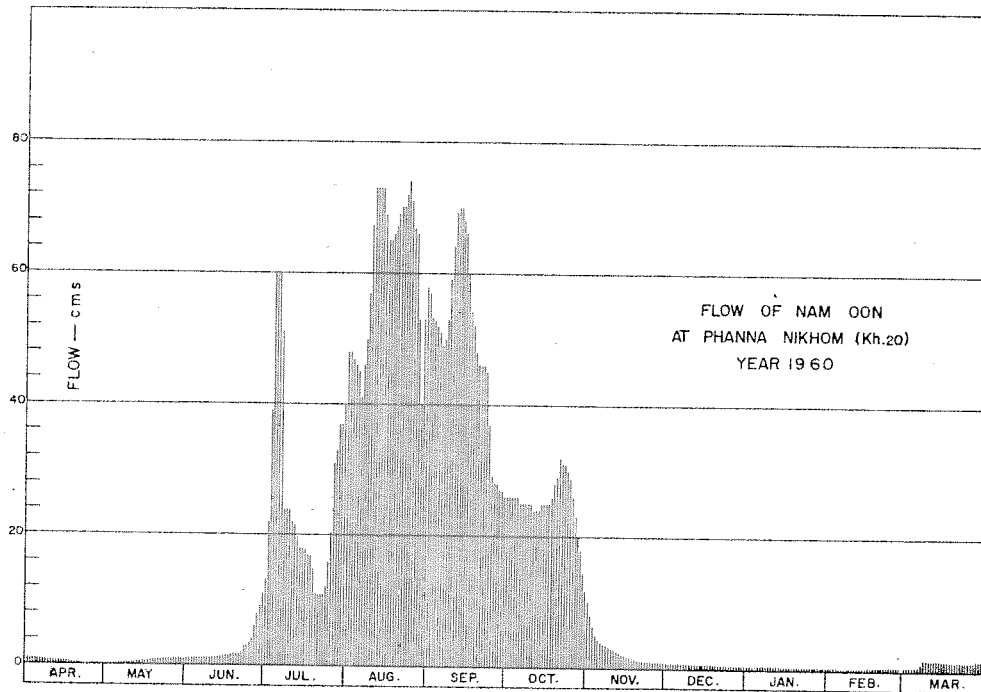
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1962. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	156.60	156.34	156.64	158.29	160.07	160.38	159.12	158.02	156.60	156.52	156.44	156.48
2	.59	.37	.64	.91	.07	.27	.11	157.77	.60	.52	.44	.48
3	.58	.38	.65	159.72	.05	.25	.10	.57	.59	.52	.44	.49
4	.57	.38	.65	160.47	159.98	.22	.09	.33	.59	.51	.44	.49
5	.57	.42	.65	.47	.95	.18	.08	.24	.59	.51	.44	.49
6	156.56	156.45	156.67	160.47	159.78	160.14	159.07	157.17	156.59	156.51	156.43	156.49
7	.55	.45	.67	.18	.98	.17	.06	.13	.58	.51	.43	.62
8	.53	.45	.67	159.01	160.16	.26	.05	.12	.58	.51	.43	.75
9	.52	.45	.67	.01	.38	.45	.04	.05	.57	.50	.43	.74
10	.51	.45	.68	158.98	.67	.59	.05	.01	.57	.50	.43	.73
11	156.50	156.45	156.69	158.92	160.83	160.73	159.02	156.99	156.56	156.49	156.43	156.73
12	.49	.47	.70	.90	.84	.77	.01	.95	.56	.49	.43	.73
13	.48	.50	.71	.77	.85	.77	.02	.93	.56	.48	.43	.72
14	.47	.51	.72	.66	.83	.71	.05	.88	.55	.48	.43	.72
15	.46	.52	.73	.63	.76	.66	.04	.84	.55	.47	.43	.71
16	156.45	156.53	156.74	158.61	160.64	160.48	159.05	156.81	156.55	156.47	156.44	156.70
17	.44	.54	.75	.58	.64	.29	.06	.79	.55	.46	.47	.70
18	.43	.55	.76	.54	.66	.24	.12	.77	.54	.46	.49	.69
19	.42	.56	.77	.41	.67	.68	.18	.73	.54	.46	.49	.69
20	.41	.57	.77	.06	.73	.60	.24	.71	.54	.46	.49	.68
21	156.40	156.58	156.77	158.07	160.75	159.99	159.38	156.69	156.53	156.45	156.49	156.68
22	.39	.59	.84	.07	.77	.99	.36	.67	.53	.45	.49	.68
23	.38	.60	157.02	.11	.82	.97	.34	.66	.53	.45	.49	.67
24	.37	.61	.06	.17	.87	.62	.32	.65	.53	.44	.49	.67
25	.36	.62	.13	.53	.80	.25	.24	.64	.53	.44	.49	.67
26	156.35	156.63	157.21	158.84	160.68	159.22	159.08	156.63	156.53	156.44	156.48	156.67
27	.34	.64	.49	159.37	.66	.18	158.94	.63	.52	.44	.48	.69
28	.34	.64	.75	.47	.26	.14	.76	.62	.52	.44	.48	.72
29	.34	.64	.91	.61	159.73	.13	.63	.62	.52	.44	.47	.71
30	.34	.64	158.12	.61	160.27	.12	.38	.61	.52	.44	.47	.70
31		.64		.77	.41		.21		.52	.44		.69
Mean	156.46	156.52	156.91	159.01	160.47	160.07	159.04	157.94	156.55	156.47	156.46	156.66
Max.	156.60	156.64	158.12	160.47	160.87	160.77	159.38	158.02	156.60	156.52	156.49	156.75
Min.	156.34	156.34	156.64	158.06	159.73	159.12	158.21	156.61	156.52	156.44	156.43	156.48

WATER YEAR 1960 : Max. 160.87 m. Min. 156.34 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	0.13	1.16	13	48	57	26	10	1.00	0.68	0.42	0.54
2	0.96	0.24	1.16	22	48	53	26	8.26	1.00	0.68	0.42	0.54
3	0.92	0.26	1.20	39	47	53	26	6.69	0.96	0.68	0.42	0.57
4	0.88	0.26	1.20	60	46	52	26	5.01	0.96	0.64	0.42	0.57
5	0.88	0.36	1.20	60	45	51	26	4.44	0.96	0.64	0.42	0.57
6	0.84	0.45	1.28	60	41	49	25	4.02	0.96	0.64	0.39	0.57
7	0.80	0.45	1.28	51	46	50	25	3.78	0.92	0.64	0.39	1.08
8	0.72	0.45	1.28	24	50	53	25	3.72	0.92	0.64	0.39	1.65
9	0.68	0.45	1.28	24	57	59	25	3.30	0.88	0.60	0.39	1.60
10	0.64	0.45	1.32	24	67	64	25	3.06	0.88	0.60	0.39	1.55
11	0.60	0.45	1.36	22	73	69	24	2.94	0.84	0.57	0.39	1.55
12	0.57	0.51	1.40	22	73	70	24	2.70	0.84	0.57	0.39	1.55
13	0.54	0.60	1.45	20	73	70	24	2.58	0.84	0.54	0.39	1.50
14	0.51	0.64	1.50	18	73	68	25	2.30	0.80	0.54	0.39	1.50
15	0.48	0.68	1.55	18	69	66	25	2.10	0.80	0.51	0.39	1.45
16	0.45	0.72	1.60	18	65	60	25	1.95	0.88	0.51	0.42	1.40
17	0.42	0.76	1.65	17	65	54	25	1.85	0.88	0.48	0.51	1.40
18	0.39	0.80	1.70	17	66	52	26	1.75	0.76	0.48	0.57	1.36
19	0.36	0.84	1.75	15	67	48	28	1.55	0.76	0.48	0.57	1.36
20	0.33	0.88	1.75	11	69	46	29	1.45	0.76	0.48	0.57	1.32
21	0.30	0.92	1.75	11	70	46	32	1.36	0.72	0.45	0.57	1.32
22	0.28	0.96	2.10	11	70	46	31	1.28	0.72	0.45	0.57	1.32
23	0.26	1.00	3.12	11	72	45	31	1.24	0.72	0.45	0.57	1.28
24	0.24	1.04	3.36	12	74	37	30	1.20	0.72	0.42	0.57	1.28
25	0.22	1.08	3.78	16	71	29	29	1.16	0.72	0.42	0.57	1.28
26	0.20	1.12	4.26	21	67	28	26	1.12	0.72	0.42	0.54	1.28
27	0.18	1.16	6.15	31	66	28	23	1.12	0.68	0.42	0.54	1.36
28	0.18	1.16	8.10	33	53	27	20	1.08	0.68	0.42	0.54	1.50
29	0.18	1.16	9.39	37	40	27	18	1.08	0.68	0.42	0.54	1.45
30	0.18	1.16	11	37	53	26	14	1.04	0.68	0.42	0.54	1.40
31	0.18	1.16	11	40	58	26	12	1.04	0.68	0.42	0.54	1.36
Total	15.19	22.35	81.06	815	1,882	1,483	776	85.13	25.32	16.31	13.11	38.46
Mean	0.51	0.72	2.70	26.2	60.7	49.4	25	2.84	0.82	0.53	0.47	1.24
Max.	1.00	1.16	11	60	74	70	32	10	1.00	0.68	0.57	1.65
Min.	0.18	0.18	1.16	11	40	26	12	1.04	0.68	0.42	0.39	0.54
Runoff - BCM.	1.312	1.951	7.003	70.416	162.605	128.131	67.046	7.355	2.188	1.409	1.133	3.323

WATER YEAR 1960 : Max. 74 Min. 0.18 Mean 14.4 Annual Runoff 453.853 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	06.00	160.87	74				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KHONG RIVER BASIN

Nam Oon at Phanna Nikhom, Sakon Nakhon (Kh.20)

Location: Lat 17° - 20' - 49" N, Long 103° - 51' - 06" E, on right bank near Phanna Nikhom Market, Amphoe Phanna Nikhom, Sakon Nakhon.

Drainage Area: 1,199 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +156.27 m. (M.S.L.)

Bench Mark: B.M. of the Survey Department

Location: Near the district office of Amphoe Phanna Nikhom.
Elevation: +164.083 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: 1955 to date.

Rating Operation:

Period of Rating: 1956 - 62
Rated by Float: -
Rated by Current Meter: 1956 - 67

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

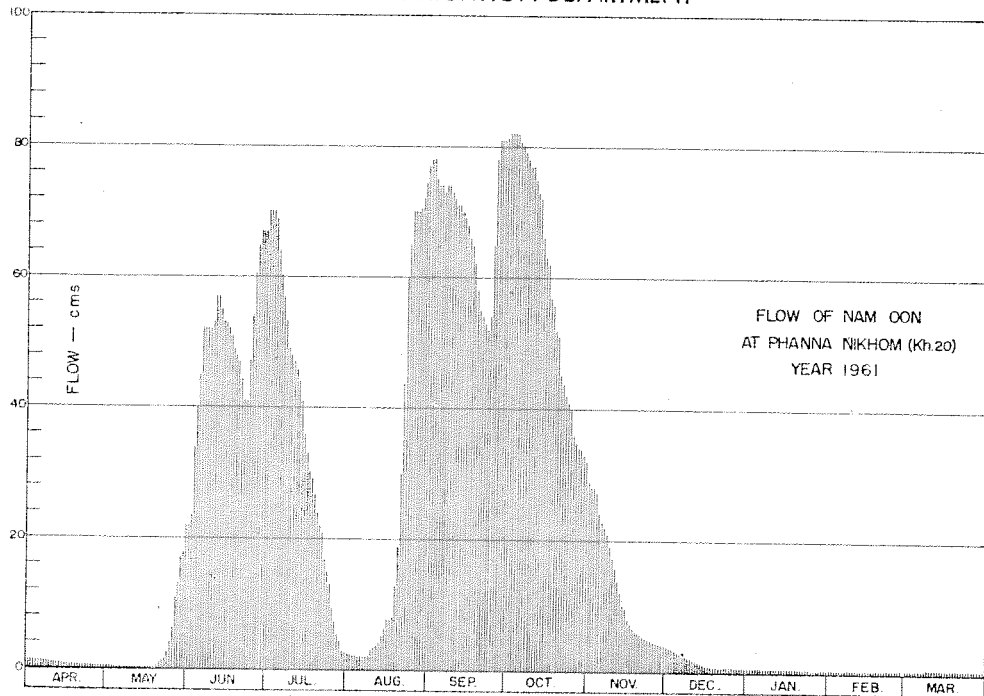
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1962. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	156.68	156.45	158.91	160.77	156.92	160.97	161.09	159.25	157.14	156.53	156.48	156.45
2	.67	.44	.98	.77	.92	.97	.09	.22	.12	.53	.48	.45
3	.66	.43	159.48	.77	.89	.91	.09	.18	.08	.53	.48	.45
4	.65	.42	.76	.74	.88	.88	.09	.14	.05	.53	.48	.46
5	.64	.41	.94	.57	.85	.88	.07	158.99	.02	.53	.47	.46
6	156.63	156.40	160.22	160.49	156.84	160.84	161.04	158.94	156.98	156.53	156.47	156.46
7	.62	.39	.22	.40	.83	.87	.01	.91	.94	.53	.47	.46
8	.61	.39	.22	.25	.85	.87	160.99	.84	.91	.52	.47	.46
9	.60	.39	.24	.13	.89	.85	.96	.64	.88	.51	.47	.47
10	.59	.39	.26	.08	157.03	.82	.94	.57	.84	.51	.46	.48
11	156.58	156.38	160.38	160.04	157.08	160.79	160.91	158.49	156.81	156.51	156.46	156.48
12	.57	.38	.38	159.99	.14	.79	.85	.34	.76	.51	.46	.48
13	.56	.38	.34	.92	.21	.77	.82	.14	.72	.51	.46	.48
14	.55	.38	.27	.81	.36	.74	.66	.03	.68	.51	.46	.48
15	.54	.37	.26	.58	.55	.72	.58	157.95	.66	.51	.46	.48
16	156.53	156.37	160.22	159.49	157.69	160.66	160.53	157.76	156.63	156.50	156.46	156.47
17	.52	.37	.20	.31	.69	.64	.38	.64	.61	.50	.46	.47
18	.51	.37	.14	.23	.78	.55	.35	.55	.59	.50	.46	.47
19	.50	.37	.08	.14	158.25	.42	.22	.51	.58	.50	.46	.47
20	.49	.37	.04	.02	.72	.34	.18	.46	.57	.50	.46	.46
21	156.48	156.57	159.99	158.89	159.29	160.29	159.95	157.43	156.56	156.49	156.46	156.46
22	.47	.68	.81	.81	.92	.27	.90	.39	.56	.49	.46	.46
23	.47	.72	.78	.58	160.47	.23	.84	.36	.55	.49	.46	.46
24	.47	.90	160.05	.46	.62	.31	.78	.34	.55	.49	.46	.46
25	.47	157.18	.29	.29	.75	.63	.74	.31	.55	.49	.46	.46
26	156.47	157.50	160.49	157.97	160.77	160.97	159.59	157.28	156.54	156.48	156.46	156.45
27	.46	158.13	.64	.67	.77	161.07	.56	.24	.54	.48	.46	.45
28	.46	.23	.68	.37	.82	.07	.52	.22	.53	.48	.45	.45
29	.46	.54	.68	.25	.82	.07	.49	.20	.53	.48		.44
30	.46	.64	.68	.01	.89	.05	.45	.17	.53	.48		.44
31		.91		156.95	.94		.38		.52	.48		.44
Mean	156.54	156.83	160.12	159.28	158.43	160.74	160.39	158.05	156.73	156.50	156.46	156.46
Max.	156.68	158.91	160.68	160.77	160.94	161.07	161.09	159.25	157.14	156.53	156.48	156.48
Min.	156.46	156.37	158.91	156.95	156.83	160.23	159.38	157.17	156.52	156.48	156.45	156.44

WATER YEAR 1961 : Max. 161.09 m. Min. 156.37 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.32	0.45	22	70	2.52	78	82	29	3.34	0.72	0.54	0.45
2	1.28	0.42	24	70	2.52	78	82	28	3.72	0.72	0.54	0.45
3	1.24	0.39	34	70	2.35	75	82	28	3.48	0.72	0.54	0.45
4	1.20	0.36	40	69	2.30	74	82	27	3.30	0.72	0.54	0.48
5	1.16	0.33	45	63	2.15	74	81	24	3.12	0.72	0.51	0.48
6	1.12	0.30	52	60	2.10	73	80	23	2.88	0.72	0.51	0.48
7	1.08	0.28	52	57	2.05	74	79	22	2.64	0.72	0.51	0.48
8	1.04	0.28	52	53	2.15	74	78	21	2.46	0.68	0.51	0.48
9	1.00	0.28	52	49	2.35	73	77	19	2.30	0.64	0.51	0.51
10	0.96	0.28	53	48	3.18	72	77	17	2.10	0.64	0.48	0.54
11	0.92	0.26	57	47	3.48	71	75	16	1.95	0.64	0.48	0.54
12	0.88	0.26	57	46	3.84	71	73	14	1.70	0.64	0.48	0.54
13	0.84	0.26	55	44	4.26	70	72	12	1.50	0.64	0.48	0.54
14	0.80	0.26	53	41	5.22	69	66	10	1.32	0.64	0.48	0.54
15	0.76	0.24	53	36	6.55	68	63	9.75	1.24	0.64	0.48	0.54
16	0.72	0.24	52	34	7.62	66	62	8.18	1.12	0.60	0.48	0.51
17	0.68	0.24	51	30	7.62	65	57	7.22	1.04	0.60	0.48	0.51
18	0.64	0.24	49	29	8.34	62	56	6.55	0.96	0.60	0.48	0.51
19	0.60	0.24	48	27	13	58	52	6.27	0.92	0.60	0.48	0.51
20	0.57	0.24	47	24	19	55	51	5.92	0.88	0.60	0.48	0.48
21	0.54	0.88	46	22	30	54	45	5.71	0.84	0.57	0.48	0.48
22	0.51	1.52	41	21	44	53	44	5.45	0.84	0.57	0.48	0.48
23	0.51	1.50	41	17	60	52	42	5.22	0.80	0.57	0.48	0.48
24	0.51	2.40	47	15	65	54	41	5.08	0.80	0.57	0.48	0.48
25	0.51	4.08	54	13	70	65	40	4.87	0.80	0.57	0.48	0.48
26	0.51	6.20	60	9.93	70	78	36	4.68	0.76	0.54	0.48	0.45
27	0.48	11	65	7.46	70	81	35	4.44	0.76	0.54	0.48	0.45
28	0.48	13	67	5.29	72	81	34	4.32	0.72	0.54	0.45	0.45
29	0.48	17	67	4.50	72	81	34	4.20	0.72	0.54	0.45	0.42
30	0.48	18	67	3.06	75	81	33	4.02	0.72	0.54	0.45	0.42
31		22		2.70	77		32		0.68	0.54		0.42
Total	25.82	103.23	1,505	1,087.94	807.60	2,080	1,843	381.86	50.91	19.29	13.80	15.03
Mean	0.79	3.33	50.1	35.1	26	69.3	59.4	12.7	1.64	0.62	0.49	0.48
Max.	1.32	22	67	70	77	81	82	29	3.84	0.72	0.54	0.54
Min.	0.48	0.24	22	2.70	2.05	52	32	4.02	0.68	0.54	0.45	0.42
Runoff - mcm.	2.058	8.919	129.859	93.998	69.777	179.712	159.235	32.993	4.399	1.667	1.192	1.298

WATER YEAR 1961 : Max. 82 Min. 0.24 Mean 21.7 Annual Runoff 685.107 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	06.00	161.09	82				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

Nam Oon at Phanna Nikhom, Sakon Nakhon (Kh.20)

Location: Lat 17°-20' - 49" N, Long 103°-51' - 06" E, on right bank near Phanna Nikhom Market, Amphoe Phanna Nikhom, Sakon Nakhon.

Drainage Area: 1,199 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +156.27 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department

Location: Near the district office of Amphoe Phanna Nikhom

Elevation: +164.083 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: 1955 to date.

Rating Operation:

Period of Rating: 1956 - 62

Rated by Float: -

Rated by Current Meter: 1956 - 62

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

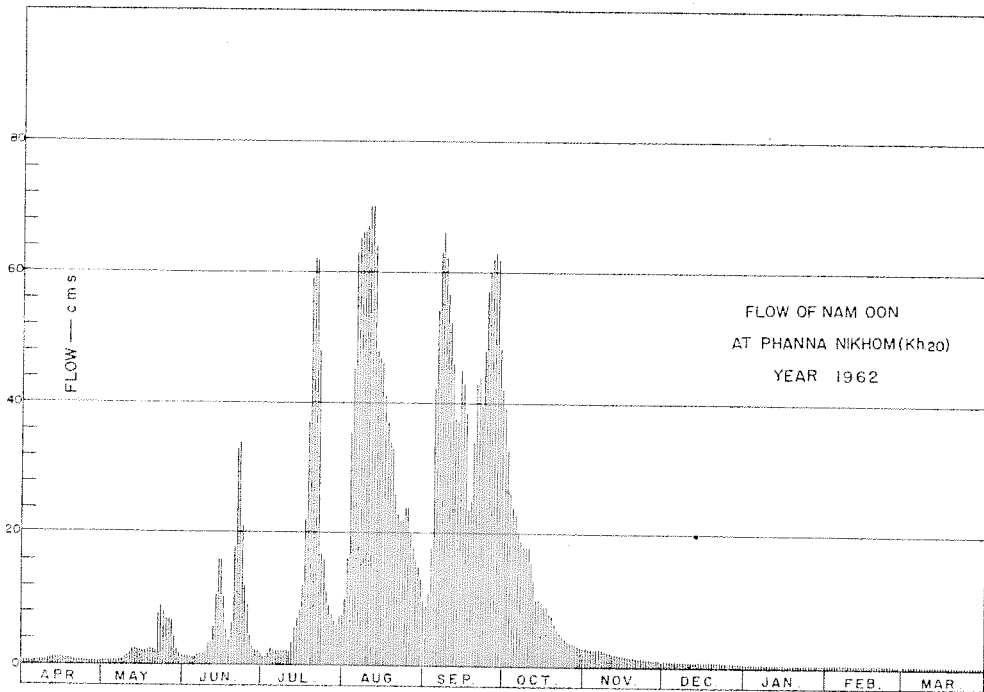
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1962. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	156.44	156.45	156.67	156.69	158.01	157.87	159.69	156.95	156.48	156.44	156.43	156.43
2	.44	.46	.66	.71	.53	158.13	.46	.94	.59	.47	.44	.45
3	.44	.47	.64	.76	159.53	.59	.12	.93	.59	.47	.45	.45
4	.44	.50	.64	.93	.94	159.83	.01	.92	.59	.47	.45	.45
5	.44	.50	.67	.90	160.58	160.30	158.95	.94	.58	.46	.45	.45
6	156.44	156.51	156.72	156.85	160.62	160.58	158.80	156.94	156.58	156.46	156.45	156.43
7	.45	.54	.74	.85	.66	.65	.69	.92	.58	.45	.45	.42
8	.47	.58	.76	.84	.66	.55	.67	.89	.58	.45	.45	.42
9	.50	.62	.78	.83	.67	.36	.64	.87	.58	.45	.44	.42
10	.52	.69	157.05	.84	.75	.22	.61	.85	.58	.45	.44	.42
11	156.58	156.77	157.10	156.83	160.77	159.98	158.49	156.82	156.57	156.45	156.44	156.42
12	.58	.89	.43	157.08	.60	.62	.25	.81	.57	.45	.44	.42
13	.58	.89	.75	.41	.10	.64	.03	.81	.57	.45	.44	.42
14	.58	.87	158.51	.60	.04	.96	157.99	.77	.57	.45	.44	.42
15	.58	.85	.59	.74	159.98	.86	.93	.76	.56	.45	.44	.42
16	156.57	156.84	158.05	158.16	159.81	159.66	157.88	156.74	156.56	156.45	156.44	156.42
17	.56	.83	157.32	.92	.64	.02	.85	.72	.56	.44	.44	.42
18	.55	.86	.09	159.61	.52	158.97	.73	.71	.55	.44	.45	.42
19	.54	.91	.50	160.46	.44	159.50	.69	.70	.55	.44	.45	.42
20	.51	.87	158.66	.53	.11	.88	.54	.69	.55	.44	.45	.43
21	156.47	156.87	159.44	160.53	158.94	159.90	157.42	156.68	156.54	156.44	156.45	156.41
22	.47	157.72	.48	159.97	.87	.72	.36	.67	.54	.44	.44	.41
23	.46	.84	158.85	158.59	.90	160.07	.31	.66	.54	.44	.44	.41
24	.46	.73	.21	.47	159.01	.38	.21	.65	.53	.44	.44	.41
25	.46	.61	157.89	.08	.01	.49	.14	.64	.53	.44	.44	.41
26	156.45	157.61	157.24	157.86	158.74	160.53	157.11	156.65	156.52	156.44	156.43	156.41
27	.45	.57	156.96	.72	.64	.57	.08	.62	.51	.44	.43	.41
28	.45	.17	.88	.56	.48	.54	.05	.61	.50	.44	.43	.41
29	.45	156.87	.85	.43	.39	.87	.02	.60	.50	.44	.44	.41
30	.45	.76	.78	.68	.28	159.85	156.97	.59	.49	.44	.44	.41
31		.67		.69	157.95		.97		.49	.44		.41
Mean	156.49	156.91	157.46	157.87	159.49	159.88	157.99	156.77	156.55	156.45	156.44	156.42
Max.	156.58	157.84	159.48	160.53	160.77	160.65	159.69	156.95	156.59	156.48	156.45	156.43
Min.	156.44	156.45	156.64	156.69	157.95	157.87	156.97	156.97	156.49	156.44	156.43	156.41

WATER YEAR 1962 : Max. 160.77 m. Min. 156.41 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.42	0.45	1.28	1.36	10	9.06	39	2.70	0.96	0.54	0.42	0.39
2	0.42	0.48	1.24	1.45	16	11	33	2.64	0.96	0.51	0.42	0.39
3	0.42	0.51	1.16	1.70	35	17	26	2.58	0.96	0.51	0.45	0.39
4	0.42	0.60	1.16	2.58	45	42	24	2.52	0.96	0.51	0.45	0.39
5	0.42	0.60	1.28	2.40	63	54	23	2.64	0.92	0.48	0.45	0.39
6	0.42	0.64	1.50	2.15	65	63	20	2.64	0.92	0.48	0.45	0.39
7	0.45	0.76	1.60	2.15	66	66	19	2.52	0.92	0.45	0.45	0.36
8	0.51	0.92	1.70	2.10	66	62	18	2.35	0.92	0.45	0.45	0.36
9	0.60	1.08	1.80	2.05	67	56	18	2.25	0.92	0.45	0.42	0.36
10	0.68	1.36	3.30	2.10	70	52	18	2.15	0.92	0.45	0.42	0.36
11	0.92	1.75	3.60	2.05	70	46	16	2.00	0.88	0.45	0.42	0.36
12	0.92	2.35	5.71	3.48	64	37	13	1.95	0.88	0.45	0.42	0.36
13	0.92	2.35	8.10	5.57	48	37	10	1.95	0.88	0.45	0.42	0.36
14	0.92	2.25	16	6.90	47	45	10	1.75	0.88	0.45	0.42	0.36
15	0.92	2.15	17	8.02	46	43	9.57	1.70	0.84	0.45	0.42	0.36
16	0.88	2.10	10	12	41	38	9.14	1.60	0.84	0.45	0.42	0.36
17	0.84	2.05	4.94	22	37	24	8.90	1.50	0.84	0.42	0.42	0.36
18	0.80	2.20	3.54	37	34	23	7.94	1.45	0.80	0.42	0.45	0.36
19	0.76	2.46	6.20	59	33	34	7.62	1.40	0.80	0.42	0.45	0.36
20	0.64	2.25	18	62	26	43	6.46	1.36	0.80	0.42	0.45	0.36
21	0.51	2.25	33	62	23	44	5.64	1.32	0.76	0.42	0.45	0.33
22	0.51	7.86	34	45	22	39	5.22	1.28	0.76	0.42	0.42	0.33
23	0.48	8.82	21	17	22	48	4.87	1.24	0.76	0.42	0.42	0.33
24	0.48	7.94	12	16	24	57	4.26	1.20	0.72	0.42	0.42	0.33
25	0.48	6.98	9.22	11	24	60	3.84	1.16	0.72	0.42	0.42	0.33
26	0.45	6.98	4.44	8.98	20	62	3.66	1.12	0.68	0.42	0.39	0.33
27	0.45	6.69	2.76	7.86	18	63	3.48	1.08	0.64	0.42	0.39	0.33
28	0.45	4.02	2.30	6.62	16	62	3.30	1.04	0.60	0.42	0.39	0.33
29	0.45	2.25	2.15	5.71	15	48	3.12	1.00	0.60	0.42	0.39	0.33
30	0.45	1.70	1.80	7.54	13	42	2.82	0.96	0.57	0.42	0.39	0.33
31		1.28		7.62	9.75		2.82		0.57	0.42		0.33
Total	17.99	86.08	231.78	433.39	1,155.75	1,327.06	379.68	53.05	25.18	13.85	11.97	11.01
Mean	0.60	2.78	7.73	14	37.3	44.2	12.2	1.77	0.81	0.45	0.43	0.35
Max.	0.92	8.82	34	62	70	66	39	2.70	0.96	0.54	0.45	0.39
Min.	0.42	0.45	1.16	1.36	9.75	9.06	2.82	0.96	0.57	0.42	0.39	0.33
Runoff - 100%	1.554	7.437	20.026	37.445	99.857	114.658	32.804	4.583	2.175	1.195	1.034	0.951

WATER YEAR 1962 : Max. 70 Min. 0.33 Mean 10.2 Annual Runoff 323.721 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.7	06.00	160.65	66				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KHONG RIVER BASIN

Nam Oon at below damsite, Sakon Nakhon (Kh.20A)

Location: Lat 17°- 18' - 21" N, Long 103°- 45' - 27" E, on right bank at Ban Nong Hai, 180 meters below damsite and 17 kilometers upstream from Amphoe Phanna Nikhon, Sakon Nakhon.

Drainage Area: 1,118 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +160.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.4

Location: On right bank 20 meters upstream from damsite.

Elevation: +169.900 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1961 - 62 (since 1962 remove to site Kh.20B 580 meters upstream at the same datum)

Rating Operation:

Period of Rating: 1961

Rated by Float: -

Rated by Current Meter: 1961

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: Overbank flow was observed and is included for flow computation.

General Description: Records fair. The data presented is made by discharge measurements during 1961. No state diversions for irrigation above gage site.

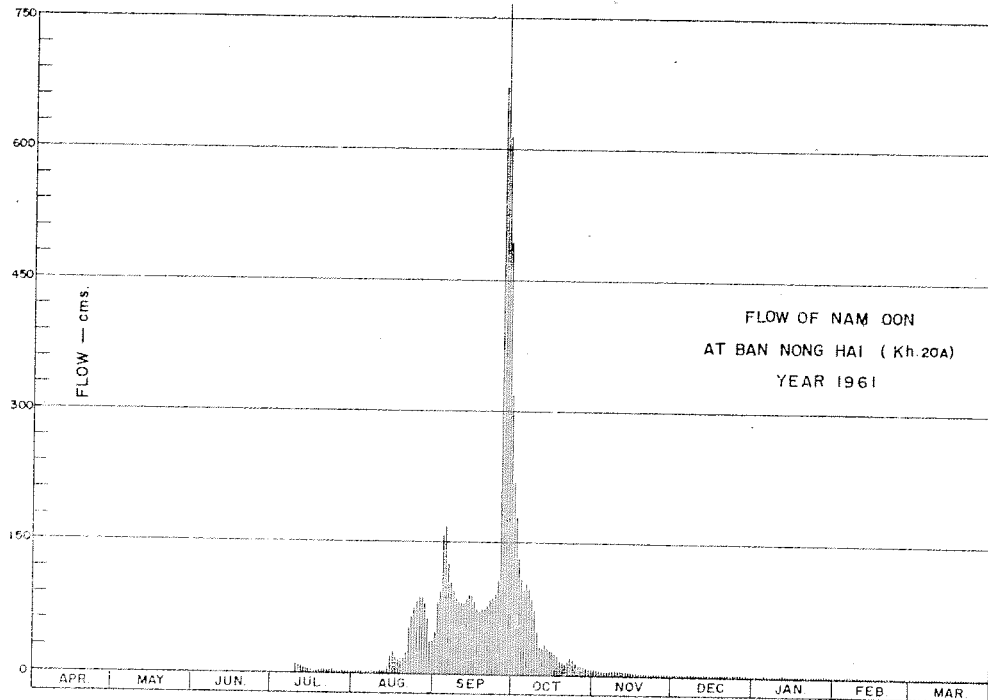
Remarks: Gage height record began on Jul. 10, 1961

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					162.34	165.96	169.89	162.97	162.24	162.00	161.98	161.86
2					.42	167.55	.55	.90	.23	161.98	.98	.89
3					.36	168.18	.05	.85	.22	.95	.91	.86
4					.28	169.31	168.58	.84	.20	.97	.84	.86
5					.22	.45	.13	.80	.18	.98	.87	.85
6					162.22	168.97	168.36	162.74	162.17	161.97	161.90	161.83
7					.23	.43	.21	.71	.16	.95	.89	.91
8					.30	.08	167.71	.70	.15	.93	.91	.85
9					.30	167.72	.19	.66	.15	162.00	.87	.85
10				163.29	.38	.56	166.05	.64	.14	161.96	.82	.85
11				163.27	162.37	167.48	165.07	162.60	162.13	161.89	161.86	161.85
12				.15	.41	.51	.60	.59	.14	.99	.90	.89
13				162.92	.49	.71	.27	.56	.14	.99	.93	.88
14				.76	163.25	.85	164.96	.54	.10	.96	.88	.85
15				.59	164.28	.78	.87	.50	.10	.98	.84	.87
16				162.50	164.60	167.58	164.69	162.48	162.09	161.90	161.90	161.87
17				.46	.18	.22	.54	.47	.08	.90	.86	.86
18				.45	163.92	.06	.23	.45	.10	.91	.90	.86
19				.48	.76	.19	163.90	.42	.09	162.02	.87	.86
20				.53	164.07	.24	.72	.40	.08	161.92	.85	.88
21				162.60	164.58	167.34	163.66	162.39	162.08	161.83	161.86	161.83
22				.56	166.19	.58	.98	.39	.68	.91	.87	.85
23				.56	.81	.71	164.20	.36	.66	.94	.87	.86
24				.72	167.26	.91	.01	.34	.05	.95	.85	.81
25				.45	.55	168.49	163.74	.32	.64	.90	.84	.81
26				162.35	167.80	171.58	163.54	162.30	162.06	161.92	161.88	161.81
27				.28	.76	.94	.41	.29	.05	.89	.94	.90
28				.30	.49	.54	.28	.28	.03	.86	.91	.89
29				.43	166.81	.17	.19	.26	161.99	.94	.86	.86
30				.42	165.40	170.46	.09	.25	.95	.83	.83	.83
31				.34	164.46		.02		162.00	.84		.83
Mean					164.21	168.38	165.42	162.55	162.10	161.94	161.88	161.85
Max.					167.80	171.94	169.89	162.97	162.24	162.00	161.98	161.91
Min.					162.22	165.96	163.02	162.25	161.95	161.83	161.82	161.81

WATER YEAR 1961 : Max. 171.94 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					2.00	47	221	6.20	1.51	0.44	0.36	0.00
2					2.40	82	179	5.70	1.46	0.36	0.36	0.00
3					2.10	95	132	5.30	1.41	0.27	0.17	0.00
4					1.71	157	169	5.20	1.31	0.33	0.04	0.00
5					1.41	169	97	4.91	1.21	0.36	0.10	0.00
6						1.41	126	4.50	1.16	0.33	0.15	0.00
7						1.46	105	4.50	1.11	0.33	0.13	0.00
8						1.81	96	4.23	1.07	0.27	0.17	0.00
9						1.81	86	4.00	1.07	0.21	0.10	0.00
10				9.10	2.20	82	49	3.80	1.02	0.30	0.00	0.00
11				8.90	2.10	81	31	3.57	0.97	0.13	0.00	0.00
12				7.80	2.40	81	30	3.50	1.02	0.40	0.00	0.00
13				5.90	2.80	86	35	3.30	1.02	0.40	0.00	0.00
14				4.60	8.80	90	30	3.20	0.85	0.30	0.00	0.00
15				3.50	20	88	28	2.92	0.85	0.36	0.00	0.00
16				2.92	25	83	26	2.70	0.80	0.15	0.00	0.00
17				2.60	19	74	24	2.70	0.76	0.15	0.00	0.00
18				2.60	16	71	20	2.60	0.85	0.17	0.00	0.00
19				2.70	14	74	15	2.40	0.80	0.52	0.00	0.00
20				3.10	17	75	13	2.35	0.76	0.19	0.00	0.00
21												
22				3.57	24	77	13	2.20	0.76	0.03	0.00	0.00
23				3.30	52	83	16	2.20	0.76	0.17	0.00	0.00
24				3.30	65	86	19	2.10	0.68	0.24	0.00	0.00
25				4.40	75	91	17	2.00	0.64	0.27	0.00	0.00
26				2.60	82	107	14	1.90	0.60	0.15	0.00	0.00
27				2.00	88	671	12	1.81	0.68	0.19	0.00	0.00
28				1.71	87	768	10	1.76	0.64	0.13	0.00	0.00
29				1.81	81	615	9.00	1.71	0.56	0.08	0.00	0.00
30				2.50	65	494	8.20	1.61	0.40	0.24	0.00	0.00
31				2.40	37	320	7.30	1.56	0.27	0.03	0.00	0.00
				2.00	38		6.70		0.44	0.04		0.00
Total					839.41	5,160	1,533.20	96.23	27.44	7.65	1.58	0.00
Mean					27.1	172	49.4	3.21	0.88	0.25	0.05	0.00
Max.					88	768	221	6.20	1.51	0.52	0.36	0.00
Min.					1.41	47	6.70	1.56	0.27	0.03	0.00	0.00
Runoff - mcm.					72.525	445.824	132.468	8.314	2.371	0.661	0.136	0.00

WATER YEAR 1961 : Max. 768 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 26	18.00	172.18	881				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

Nam Oon at Ban Hong Bua, Sakon Nakhon (Kh.208)

Location: Lat 17° - 18' - 08" N, Long 103° - 45' - 27" E, on left bank 1 kilometer north - east of Ban Hong Bua and 400 meters upstream from Nam Oon Dam site, Amphoe Phanna Nikhom, Sakon Nakhon.

Drainage Area: 1,117 sq.km. referred to AMA Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +160.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.4

Location: On right bank 20 meters from dam site.
Elevation: +169.900 m.(M.S.L.)

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: 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank flow Conditions: No overbank flow.

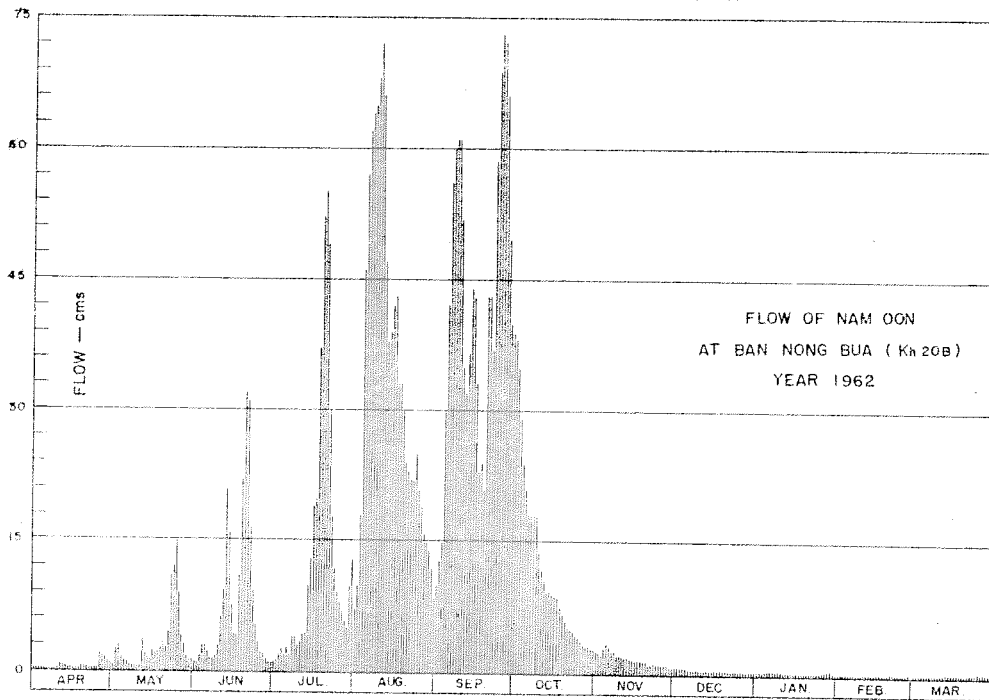
General Description: Records fair. The data presented is made by discharge measurements during 1962. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	161.80	162.01	162.13	162.30	163.16	163.48	163.42	162.56	162.19	162.05	161.96	161.90
2	.82	.35	.08	.33	.47	.67	.22	.53	.18	.06	162.02	.89
3	.81	.43	.28	.43	164.96	.87	164.84	.50	.18	.06	.02	.90
4	.80	.20	.43	.58	165.88	164.94	.50	.64	.18	.06	.01	.92
5	.80	.11	.44	.45	166.44	165.64	.34	.70	.17	.08	161.95	.89
6	161.80	162.10	162.31	162.60	166.69	166.39	164.09	162.68	162.14	162.11	161.94	161.92
7	.80	.01	.20	.47	.77	.58	.12	.56	.13	.08	.92	.89
8	.80	161.96	.16	.78	.83	.64	.12	.55	.13	.07	.91	.89
9	.80	.94	.26	.78	.95	.63	.07	.50	.13	.06	.92	.92
10	.84	.92	.44	.64	167.13	.16	163.76	.45	.13	.08	.93	.90
11	162.00	161.97	163.00	162.73	166.86	165.22	163.59	162.46	162.11	162.02	161.92	161.87
12	161.91	162.51	.18	.83	165.90	.06	.53	.43	.11	.02	.89	.90
13	.95	.27	164.08	.83	.42	.33	.34	.42	.13	.01	.93	.87
14	.89	.20	163.76	163.42	.46	.76	.37	.40	.11	.02	.92	.89
15	.89	.21	.03	.70	.63	.68	.33	.37	.09	.00	.88	.90
16	161.85	162.33	162.60	164.15	165.42	165.08	163.30	162.39	162.13	162.01	161.91	161.90
17	.85	.29	.61	.22	.12	164.47	.31	.36	.11	.01	.94	.97
18	.85	.31	163.36	165.32	.10	.55	.20	.35	.12	.00	.91	.91
19	.95	.36	164.17	166.16	164.91	.33	.10	.36	.11	161.99	.87	.87
20	.91	.50	.85	.35	.53	165.66	.04	.31	.10	.99	.95	.90
21	161.91	162.38	164.74	166.01	164.44	165.66	162.93	162.27	162.09	162.04	162.03	161.91
22	.86	.67	163.89	164.95	.38	.36	.91	.27	.85	161.99	161.92	.95
23	.86	163.36	.18	.09	.35	166.29	.88	.29	.07	162.01	.91	.93
24	.84	.40	162.76	163.64	.59	.93	.83	.27	.06	.00	.91	.91
25	.87	.69	.50	.35	.33	167.14	.79	.27	.06	161.97	.90	162.07
26	162.26	163.15	162.33	163.23	164.15	167.10	162.75	162.26	162.06	162.02	161.90	162.01
27	.22	162.60	.28	.12	163.95	166.86	.70	.23	.10	.09	.86	161.98
28	.19	.44	.19	.01	.88	.14	.64	.29	.04	.10	.95	.96
29	.08	.24	.13	162.92	.81	165.52	.66	.21	.12	.12	.95	.95
30	.06	.14	.08	163.46	.60	.48	.61	.21	.06	.05	.95	.95
31		.17		.68	.35		.59		.66	161.97		.84
Mean	161.91	162.39	163.85	163.50	165.08	165.59	163.48	162.40	162.11	162.04	161.93	161.92
Max.	162.26	163.69	164.85	166.35	167.13	167.14	165.42	162.70	162.19	162.12	162.03	162.07
Min.	161.80	161.92	162.08	162.30	163.16	163.48	162.59	162.21	162.04	161.97	161.86	161.84

WATER YEAR 1962 : Max. 167.14 m. Min. 161.80 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.08	0.64	1.15	1.20	7.30	10	38	2.56	0.76	0.30	0.15	0.08
2	0.12	2.42	0.92	1.35	10	13	35	2.38	0.72	0.32	0.24	0.07
3	0.10	2.96	1.98	1.85	31	15	29	2.20	0.72	0.32	0.24	0.08
4	0.08	1.50	2.96	2.68	46	30	24	3.04	0.72	0.32	0.22	0.10
5	0.08	1.05	3.03	1.95	57	42	21	3.40	0.68	0.36	0.14	0.07
6	0.08	1.00	2.16	2.80	62	56	18	3.28	0.56	0.44	0.13	0.10
7	0.08	0.64	1.50	2.05	64	60	18	2.56	0.52	0.36	0.10	0.07
8	0.08	0.48	1.30	4.04	65	61	18	2.50	0.52	0.34	0.09	0.07
9	0.08	0.42	1.86	4.04	68	61	18	2.20	0.52	0.32	0.10	0.10
10	0.17	0.36	3.03	3.04	72	52	14	1.95	0.52	0.36	0.12	0.08
11	0.60	0.51	7.55	3.64	66	35	12	2.00	0.44	0.24	0.10	0.06
12	0.33	3.52	9.38	4.44	47	32	11	1.85	0.44	0.24	0.07	0.08
13	0.45	1.92	21	4.44	38	37	9.10	1.80	0.52	0.22	0.12	0.06
14	0.28	1.50	16	9.92	39	44	9.40	1.70	0.44	0.24	0.10	0.07
15	0.28	1.56	7.83	13	42	43	9.00	1.55	0.38	0.20	0.06	0.08
16	0.19	2.29	4.15	19	38	33	8.70	1.65	0.52	0.22	0.09	0.08
17	0.19	2.04	4.23	20	33	23	8.80	1.50	0.44	0.22	0.13	0.16
18	0.19	2.16	11	37	33	24	7.70	1.45	0.48	0.20	0.09	0.09
19	0.45	2.49	22	52	30	21	6.70	1.50	0.44	0.19	0.06	0.06
20	0.33	3.45	32	55	24	43	6.16	1.25	0.40	0.19	0.14	0.08
21	0.33	2.62	31	49	23	43	5.24	1.08	0.38	0.28	0.26	0.09
22	0.21	4.71	18	30	22	37	5.08	1.08	0.30	0.19	0.10	0.14
23	0.21	11	9.38	18	22	54	4.84	1.16	0.34	0.22	0.09	0.12
24	0.17	12	5.59	12	25	68	4.44	1.08	0.32	0.20	0.09	0.09
25	0.23	15	3.45	9.20	21	73	4.10	1.08	0.32	0.16	0.08	0.34
26	1.86	9.05	2.29	8.60	19	72	3.80	1.04	0.32	0.24	0.08	0.22
27	1.62	4.15	1.98	6.90	16	66	3.40	0.92	0.40	0.38	0.06	0.18
28	1.45	3.03	1.45	5.89	15	51	3.04	1.16	0.28	0.40	0.14	0.15
29	0.92	1.74	1.15	5.16	14	40	3.16	0.84	0.34	0.48		0.14
30	0.84	1.20	0.92	10	12	39	2.86	0.84	0.32	0.30		0.14
31		1.35		13	9.20		2.74		0.32	0.16		0.03
Total	12.08	98.76	230.24	410.59	1,070.50	1,278	364.26	52.60	14.38	8.61	3.39	3.28
Mean	0.40	3.18	7.67	13.2	34.5	42.6	11.7	1.75	0.46	0.28	0.12	0.10
Max.	1.86	15	32	55	72	73	38	3.40	0.76	0.48	0.26	0.34
Min.	0.08	0.36	0.92	1.20	7.30	10	2.74	0.84	0.28	0.16	0.06	0.03
Runoff - mcm.	1.044	8.533	19.893	35.475	92.491	110.419	31.472	4.545	1.242	0.744	0.293	0.283

WATER YEAR 1962 : Max. 73 Min. 0.03 Mean 9.72 Annual Runoff 306.434 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	18.00	167.16	73				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KHONG RIVER BASIN

Nam Phung at Ban Chan Phen, Sakon Nakhon (Kh.21A)

Location: Lat 16° - 58' - 22" N, Long 104° - 10' - 03" E, on left bank 6 kilometers downstream from Nam Phung Damsite, 500 meters upstream from the confluence with Huai Huat and 800 meters upstream from Ban Chan Phen, Amphoe Muang, Sakon Nakhon.

Drainage Area: 577 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +172.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.2

Location: On left bank 15 meters upstream from gage site.
Elevation: + 178.373 m.(M.S.L.)

Gage Reading Frequency: 8 - time daily readings began at 03.00 hour and 3 hours each reading.

Basis of Mean Daily Gage Height: Arithmetic mean of 8 readings.

Period of Available Gage Records: 1961 to date.

Rating Operation:

Period of Rating: 1961 to date.

Rated by float: -

Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions for irrigation above gage site.

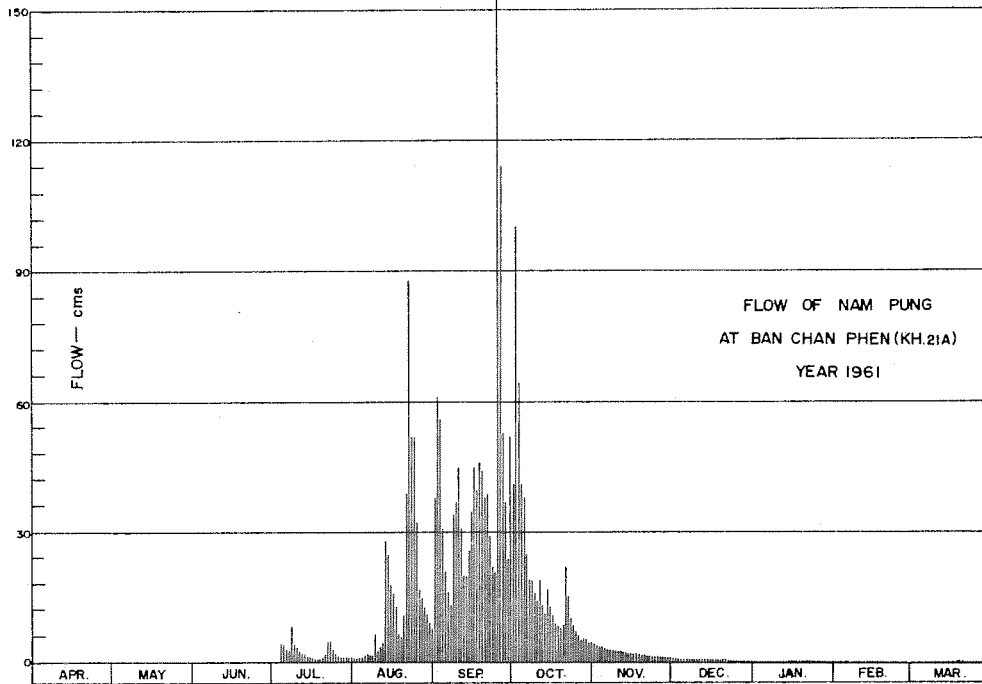
Remarks: Record begins on Jul. 4, 1961

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					173.00	173.87	174.03	173.18	172.98	172.88	172.81	172.78
2					172.99	174.34	.84	.17	.98	.87	.80	.77
3					173.01	.19	.53	.16	.97	.87	.80	.77
4				173.27	.02	173.94	.13	.15	.96	.86	.80	.77
5				.25	.05	.73	.08	.14	.96	.87	.80	.77
6				173.21	173.66	173.60	173.81	173.13	172.95	172.85	172.80	172.76
7				.18	.02	.53	.67	.13	.95	.85	.80	.76
8				.41	.08	.94	.59	.12	.94	.85	.80	.76
9				.25	.27	174.00	.53	.11	.94	.85	.79	.76
10				.21	.10	.23	.50	.10	.93	.85	.79	.76
11				173.16	173.16	173.95	173.62	173.10	172.93	172.85	172.79	172.76
12				.13	.18	.72	.48	.09	.93	.85	.79	.76
13				.11	.83	.70	.41	.08	.93	.84	.79	.75
14				.08	.83	.78	.57	.08	.92	.84	.79	.75
15				.05	.67	.93	.48	.07	.92	.84	.79	.76
16				173.05	173.62	174.00	173.41	173.06	172.92	172.84	172.78	172.79
17				.04	.52	173.89	.37	.06	.92	.84	.78	.77
18				.04	.34	174.02	.34	.05	.92	.84	.78	.88
19				.05	.32	.02	.31	.04	.91	.83	.77	.90
20				.68	.39	.00	.34	.04	.91	.83	.77	.83
21				173.10	174.05	174.05	173.70	173.03	172.91	172.83	172.77	172.80
22				.26	.76	173.89	.52	.03	.90	.82	.77	.79
23				.25	.27	.74	.39	.02	.90	.82	.78	.79
24				.13	.28	.70	.33	.01	.90	.82	.78	.78
25				.67	173.99	173.53	.30	.01	.88	.81	.78	.79
26				173.04	173.66	173.43	173.27	173.01	172.88	172.81	172.78	172.78
27				.03	.52	174.39	.26	.01	.88	.81	.78	.76
28				.03	.45	.01	.24	172.99	.88	.81	.78	.75
29				.03	.40	173.80	.22	.99	.88	.81	.75	.75
30				.02	.35	174.22	.20	.99	.88	.81	.75	.75
31					.31		.20		.88	.81		.75
Mean					173.47	174.04	173.57	173.64	172.92	172.84	172.79	172.78
Max.					174.76	175.53	174.84	173.18	172.98	172.88	172.81	172.90
Min.					172.99	173.53	173.20	172.99	172.88	172.81	172.77	172.75

WATER YEAR 1961 : Max. 175.53 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					1.27	38	41	4.21	1.19	0.46	0.16	0.08
2					1.19	61	100	4.01	1.19	0.42	0.12	0.06
3					1.35	56	64	3.82	1.11	0.42	0.12	0.06
4				4.60	1.48	31	41	3.62	1.03	0.38	0.12	0.06
5				4.21	1.87	21	38	3.43	1.03	0.42	0.12	0.06
6				3.43	2.13	16	25	3.23	0.95	0.33	0.12	0.04
7				2.84	1.61	13	19	3.23	0.95	0.33	0.12	0.04
8				8.56	2.39	34	19	3.04	0.87	0.33	0.12	0.04
9				4.21	6.68	37	16	2.84	0.87	0.33	0.10	0.04
10				3.82	2.84	45	14	2.65	0.79	0.33	0.10	0.04
11				2.84	4.01	31	19	2.65	0.79	0.33	0.10	0.04
12				2.39	4.40	20	13	2.52	0.79	0.33	0.10	0.04
13				2.13	28	20	11	2.39	0.79	0.29	0.10	0.02
14				1.74	25	25	17	2.39	0.71	0.29	0.10	0.02
15				1.27	18	35	13	2.26	0.71	0.29	0.10	0.04
16				1.27	16	45	11	2.13	0.71	0.29	0.08	0.10
17				1.19	13	39	9.24	2.13	0.71	0.29	0.08	0.06
18				1.19	6.68	46	8.56	2.00	0.71	0.29	0.08	0.46
19				1.27	6.16	44	7.88	1.87	0.63	0.25	0.06	0.55
20				1.61	11	38	8.90	1.87	0.63	0.25	0.06	0.25
21				1.87	39	39	22	1.74	0.63	0.25	0.06	0.12
22				5.38	88	29	15	1.74	0.55	0.21	0.06	0.10
23				5.12	52	22	10	1.61	0.55	0.21	0.08	0.10
24				3.43	52	21	8.22	1.48	0.55	0.21	0.08	0.08
25				2.39	32	157	6.94	1.48	0.46	0.16	0.08	0.10
26				1.74	17	149	6.11	1.48	0.46	0.16	0.08	0.08
27				1.61	15	52	5.38	1.48	0.46	0.16	0.08	0.04
28				1.61	13	34	5.64	1.27	0.46	0.16	0.08	0.02
29				1.61	11	24	5.12	1.27	0.46	0.16		0.02
30				1.48	9.24	52	4.60	1.27	0.46	0.16		0.02
31					7.88		4.60		0.46	0.16		0.02
Total					491.18	1,274	589.19	71.11	22.66	8.65	2.66	2.80
Mean					15.8	42.4	19	2.37	0.73	0.28	0.09	0.09
Max.					88	157	100	4.21	1.19	0.46	0.16	0.55
Min.					1.19	13	4.60	1.27	0.46	0.16	0.06	0.02
Runoff - mcm.					42.438	110.074	50.906	6.144	1.958	0.747	0.230	0.242

WATER YEAR 1961 : Max. 157 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	15.00	176.77	275				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

Nam Phung at Ban Chan Phen, Sakon Nakhon (Kh.21A)

Location: Lat $16^{\circ}-58'-22''$ N, Long $104^{\circ}-10'-05''$ E, on left bank 6 kilometers downstream from Nam Phung Dam site, 500 meters upstream from the confluence with Huai Huat and 800 meters upstream from Ban Chan Phen, Amphoe Muang, Sakon Nakhon.

Drainage Area: 577 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder. Prior to May 1962 a staff gage at the site and datum had been used.

Zero Gage at Bottom at: +172.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.2

Location: On left bank 15 meters upstream from gage site.
Elevation: +178.373 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1961 to date.

Rating Operation:

Period of Rating: 1961 to date.

Rated by Float: --

Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

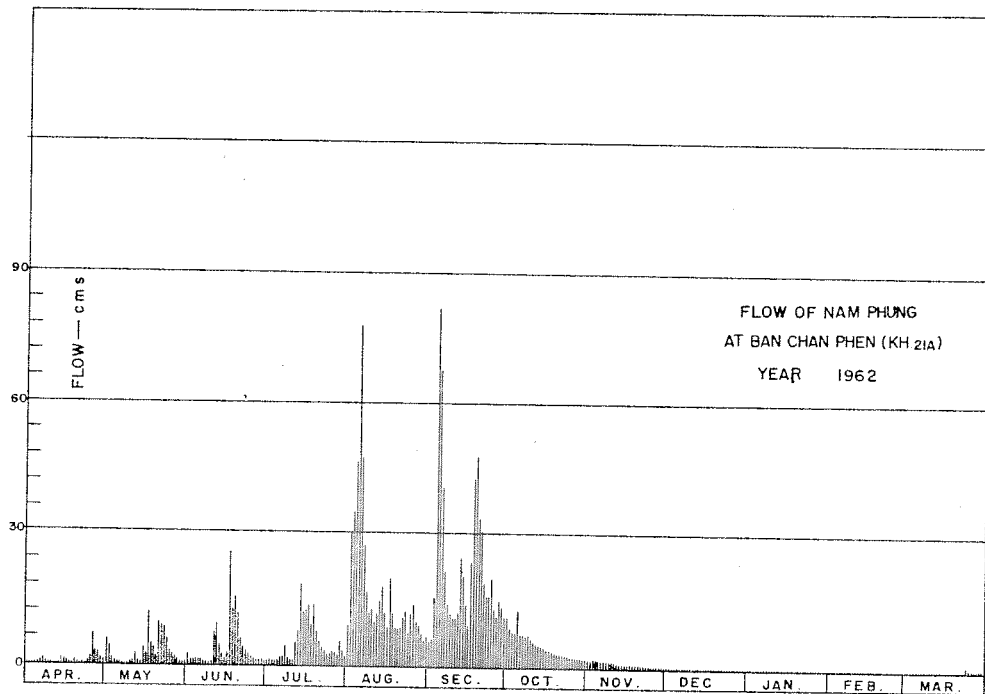
General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	172.75	173.23	173.08	172.97	173.38	173.22	173.40	173.01	172.87	172.81	172.73	172.69
2	.75	.16	172.97	173.00	.89	.25	.34	.01	.87	.81	.72	.69
3	.77	172.99	173.00	172.98	.97	.48	.32	.03	.86	.80	.72	.69
4	.82	.94	.00	.97	174.14	174.70	.31	.02	.86	.80	.72	.69
5	.80	.92	172.99	.99	.65	.43	.47	.00	.86	.79	.72	.69
6	172.93	172.90	172.97	173.04	174.25	174.09	173.29	173.00	172.86	172.78	172.72	172.68
7	.98	.89	.95	.06	173.82	173.69	.30	172.99	.85	.79	.71	.68
8	.87	.88	.95	.19	.57	.51	.27	.99	.85	.78	.72	.68
9	.85	.87	.91	.03	.46	.43	.29	.97	.85	.78	.72	.68
10	.82	.92	.90	172.99	.47	.42	.25	.97	.85	.77	.72	.68
11	172.80	172.96	173.31	173.00	173.40	173.41	173.23	172.97	172.85	172.77	172.74	172.68
12	.80	173.07	.37	.22	.46	.41	.20	.96	.85	.76	.74	.67
13	.79	172.95	.19	.51	.53	.76	.19	.95	.85	.77	.72	.67
14	173.01	.90	.08	.64	.60	.67	.18	.94	.85	.77	.72	.67
15	172.96	173.14	.02	.43	.44	.47	.17	.94	.85	.76	.71	.66
16	172.87	173.08	173.10	173.48	173.35	173.35	173.15	172.93	172.85	172.76	172.72	172.66
17	.83	.43	.79	.51	.66	.74	.14	.93	.84	.76	.72	.66
18	.87	.19	.46	.35	.46	174.13	.13	.92	.84	.76	.71	.66
19	.97	.15	.54	.49	.34	.22	.12	.92	.84	.75	.70	.66
20	.87	.03	.44	.33	.35	173.94	.10	.92	.84	.76	.73	.67
21	172.83	173.37	173.25	173.23	173.36	173.88	173.10	172.91	172.83	172.76	172.72	172.69
22	.82	.35	.16	.17	.42	.64	.09	.90	.83	.76	.70	.71
23	.82	.33	.11	.13	.48	.54	.08	.90	.83	.76	.69	.73
24	.96	.24	.07	.09	.32	.54	.07	.89	.82	.76	.70	.92
25	173.03	.11	.04	.10	.45	.65	.06	.89	.82	.76	.71	.86
26	173.28	173.08	173.01	173.12	173.50	173.46	173.05	172.89	172.82	172.75	172.70	172.79
27	.06	.05	.00	.10	.39	.42	.05	.88	.82	.75	.69	.75
28	.09	172.99	172.99	.07	.37	.54	.04	.87	.81	.74	.69	.73
29	172.98	.95	.98	.23	.30	.49	.03	.87	.81	.74	.72	.72
30	.93	.93	.96	.11	.25	.42	.03	.87	.81	.74	.71	.71
31		.91		.04	.29		.02		.81	.73		.71
Mean	172.90	173.06	173.12	173.17	173.56	173.66	173.18	172.94	172.84	172.77	172.71	172.70
Max.	173.28	173.43	173.79	173.64	174.65	174.70	173.47	173.03	172.87	172.81	172.74	172.92
Min.	172.75	172.87	172.90	172.97	173.25	173.22	173.02	172.87	172.81	172.73	172.69	172.66

WATER YEAR 1962 : Max. 174.70 m. Min. 172.66 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.07	5.75	2.70	1.23	9.98	5.50	11	1.65	0.46	0.19	0.04	0.00
2	0.07	4.20	1.23	1.50	31	6.25	8.74	1.65	0.46	0.19	0.03	0.00
3	0.10	1.41	1.50	1.32	35	13	8.12	1.95	0.42	0.14	0.03	0.00
4	0.23	0.96	1.50	1.23	44	82	7.81	1.80	0.42	0.14	0.03	0.00
5	0.14	0.78	1.41	1.41	78	62	13	1.50	0.42	0.13	0.03	0.00
6	0.87	0.60	1.23	2.10	50	41	7.25	1.50	0.42	0.11	0.03	0.00
7	1.32	0.55	1.05	2.40	28	22	7.50	1.41	0.37	0.13	0.01	0.00
8	0.46	0.51	0.87	4.80	17	14	6.75	1.41	0.37	0.11	0.03	0.00
9	0.28	0.46	0.69	1.95	12	12	7.25	1.23	0.37	0.11	0.03	0.00
10	0.23	0.78	0.60	1.41	13	11	6.25	1.23	0.37	0.10	0.03	0.00
11	0.14	1.14	7.81	1.50	10	11	5.75	1.23	0.37	0.10	0.06	0.00
12	0.14	2.55	9.67	5.50	12	11	5.00	1.14	0.37	0.08	0.06	0.00
13	0.13	1.05	4.80	7.81	15	25	4.80	1.05	0.37	0.10	0.03	0.00
14	1.65	0.60	2.70	19	18	21	4.60	0.96	0.37	0.10	0.03	0.00
15	1.14	3.80	1.80	12	12	13	4.40	0.96	0.37	0.08	0.01	0.00
16	0.46	2.70	3.00	13	8.50	9.05	4.00	0.87	0.37	0.08	0.03	0.00
17	0.28	12	26	14	20	24	3.80	0.87	0.32	0.08	0.03	0.00
18	0.46	4.80	13	9.05	12	43	3.60	0.78	0.32	0.08	0.01	0.00
19	1.23	4.00	16	14	8.20	48	3.40	0.78	0.32	0.07	0.00	0.00
20	0.46	1.95	12	8.43	8.50	34	3.00	0.78	0.32	0.08	0.04	0.00
21	0.28	9.67	6.25	5.75	8.80	31	3.00	0.69	0.28	0.08	0.03	0.00
22	0.19	9.05	4.20	4.40	11	19	2.85	0.60	0.28	0.08	0.00	0.01
23	0.19	8.43	3.20	3.60	13	16	2.70	0.60	0.28	0.08	0.00	0.04
24	1.14	6.00	2.55	2.85	7.60	16	2.55	0.55	0.23	0.08	0.00	0.78
25	1.95	3.20	2.10	3.00	12	20	2.40	0.55	0.23	0.08	0.01	0.42
26	7.00	2.70	1.65	3.40	14	13	2.25	0.55	0.23	0.07	0.00	0.13
27	2.40	2.25	1.50	3.00	9.70	11	2.25	0.51	0.23	0.07	0.00	0.07
28	2.85	1.41	1.41	2.55	9.10	15	2.10	0.46	0.19	0.06	0.00	0.04
29	1.32	1.05	1.32	5.75	7.00	14	1.95	0.46	0.19	0.06	0.00	0.03
30	0.87	0.87	1.14	3.20	5.95	11	1.95	0.46	0.19	0.06	0.00	0.01
31		0.69		2.10	6.79		1.80	0.46	0.19	0.04		0.01
Total	28.05	95.91	134.88	163.24	547.12	673.80	151.82	30.18	10.10	2.96	0.63	1.54
Mean	0.93	3.09	4.50	5.26	17.6	22.5	4.90	1.01	0.32	0.09	0.02	0.05
Max.	7.00	12	26	19	78	82	13	1.95	0.46	0.19	0.06	0.78
Min.	0.07	0.46	0.60	1.23	5.95	5.50	1.80	0.46	0.19	0.04	0.00	0.00
Runoff - mcm.	2.423	8.287	11.654	14.104	47.271	58.216	13.117	2.607	0.873	0.256	0.054	0.133

WATER YEAR 1962 : Max. 82 Min. 0.00 Mean 5.04 Annual Runoff 158.996 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 4	09.00	175.27	144				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KHONG RIVER BASIN

Huai Huat at Ban Bung Sa, Sakon Nakhon (Kh.40)

Location: Lat $16^{\circ} - 58' - 25''$ N, Long $104^{\circ} - 10' - 16''$ E, on right bank 200 meters upstream from the confluence with Nam Phung, south of Ban Chan Phen, Amphoe Muang, Sakon Nakhon.

Drainage Area: 60 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.00 m. (A.D.)

Bench Mark: B.M. - H.S./R.I.D. No.1

Location: On right bank of Nam Phung and on left bank of Huai Huat.
Elevation: +177.843 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: 1962 to date.

Rating Operation:

Period of Rating: 1962 to date.

Rated by Float: -

Rated by Current Meter: 1962 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1962-1963. No state diversions for irrigation above gage site.

Remarks: Gage height began to record on Aug.22,62.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						0.76	0.94	0.73	0.69	0.67	0.66	0.67
2						.74	.91	.73	.69	.67	.66	.67
3						1.10	.89	.73	.69	.67	.66	.67
4						2.60	.87	.73	.69	.67	.66	.67
5						1.89	1.15	.72	.69	.67	.66	.67
6						1.60	0.92	0.72	0.69	0.67	0.66	0.67
7						.24	.89	.72	.69	.67	.66	.67
8						.11	.89	.72	.69	.67	.66	.67
9						.05	.86	.71	.69	.67	.66	.67
10						.02	.83	.71	.70	.67	.66	.67
11						1.01	0.84	0.71	0.69	0.67	0.66	0.66
12						.02	.82	.71	.70	.67	.67	.66
13						.25	.81	.71	.68	.67	.67	.66
14						.17	.80	.71	.69	.67	.67	.66
15						.00	.85	.71	.69	.67	.67	.65
16						0.95	0.81	0.71	0.69	0.67	0.67	0.65
17						1.48	.80	.71	.68	.67	.67	.65
18						.62	.79	.71	.68	.67	.66	.65
19						.69	.78	.71	.68	.67	.65	.65
20						.39	.78	.71	.69	.67	.66	.66
21						1.36	0.78	0.71	0.69	0.67	0.67	0.66
22						1.19	.13	.78	.70	.68	.67	.67
23						.02	.07	.77	.70	.67	.67	.68
24						0.91	.04	.76	.70	.68	.67	.82
25						.97	.12	.75	.70	.67	.67	.71
26						1.16	0.99	0.75	0.69	0.67	0.66	0.67
27						0.93	.96	.74	.69	.67	.66	.67
28						.87	1.07	.74	.69	.67	.66	.67
29						.80	0.97	.73	.69	.67	.66	.65
30						.76	.96	.73	.69	.67	.66	.65
31						.84	.74	.74	.67	.66	.66	.65
Mean						1.21	0.82	0.71	0.68	0.67	0.66	0.67
Max.						2.60	1.15	0.73	0.70	0.67	0.67	0.82
Min.						0.74	0.73	0.69	0.67	0.66	0.65	0.65

WATER YEAR 1962 : Max. - m. Min. - m.

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1960
CHEE RIVER BASIN**

Chee River at Wat Thai Kosum, Maha Sarakham (E.1)

Location: Lat 16° - 15' - 02" N, Long 103° - 04' - 25" E, on right bank 800 meters north - east of the district office of Amphoe Kosum Phisai, Maha Sarakham.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at:

Bench Mark: B.M. - E.1

Location: On right bank near the gage site.

Elevation: +149.116 m. (M.S.L.)

Gage Reading Frequency: 3 - time daily readings at 06.00, 09.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings.

Period of Available Gage Records: 1936 - 43, 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

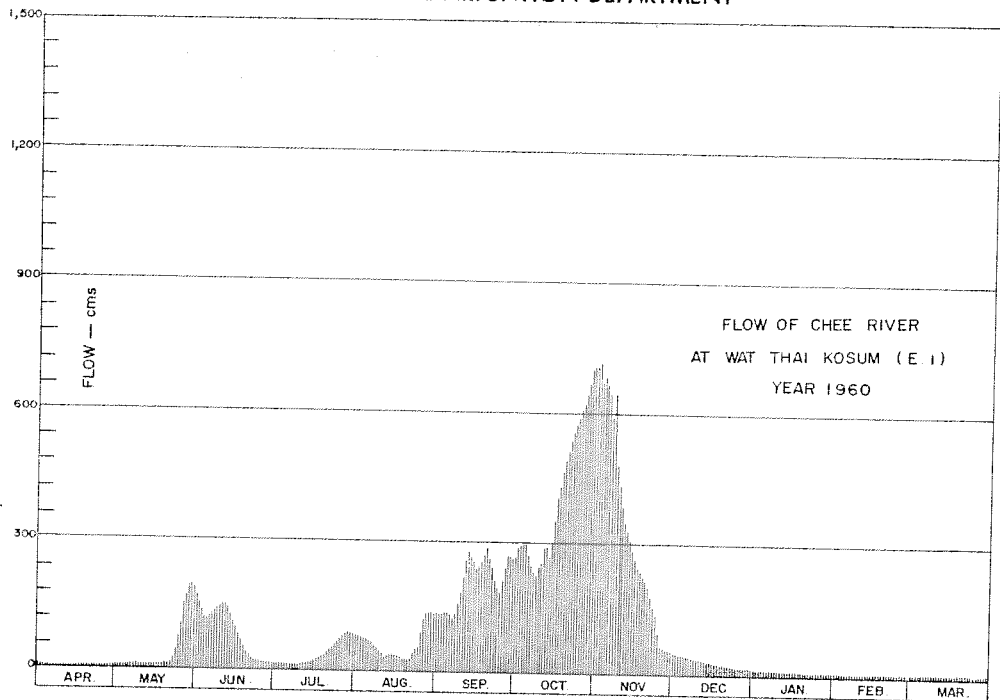
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.87	136.93	140.59	137.26	138.90	139.81	141.72	145.37	138.21	137.21	136.99	136.97
2	.87	.95	.10	.26	.87	.79	.98	.40	.17	.20	.99	.97
3	.87	.96	139.81	.25	.84	.80	142.02	.31	.13	.19	.99	.97
4	.87	.96	.56	.24	.81	.85	.06	.25	.10	.18	.99	.97
5	.87	.97	.57	.24	.75	.85	.06	.16	.07	.17	.99	.98
6	136.87	136.98	139.67	137.23	138.67	139.75	141.71	145.05	138.04	137.16	136.99	136.99
7	.87	.98	.76	.22	.56	.64	.39	144.75	.01	.16	.99	137.00
8	.87	.99	.86	.22	.45	.81	.24	.37	137.98	.15	.98	.01
9	.86	.99	.96	.23	.31	140.20	.15	143.97	.94	.14	.98	.01
10	.86	137.00	140.04	.24	.15	.56	.41	.53	.90	.13	.98	.00
11	136.86	137.01	140.10	137.27	137.99	141.08	141.58	143.04	137.87	137.12	136.98	136.99
12	.86	.01	.07	.30	.83	.59	.96	142.62	.85	.12	.98	.99
13	.86	.02	139.90	.35	.93	.84	142.00	.40	.81	.10	.98	.98
14	.86	.03	.68	.41	138.01	.67	141.73	.16	.77	.09	.98	.97
15	.86	.04	.41	.48	137.98	.54	142.09	141.90	.73	.08	.98	.98
16	136.87	137.05	139.12	137.57	137.94	141.28	142.82	141.66	137.69	137.07	136.98	137.01
17	.87	.07	138.87	.67	.89	.40	143.25	.43	.65	.07	.98	.02
18	.87	.07	.60	.77	.81	.54	.50	.27	.61	.06	.98	.05
19	.87	.10	.31	.87	.74	.75	.84	.11	.58	.06	.98	.05
20	.86	.13	.04	.98	.69	.94	144.05	140.96	.55	.05	.98	.04
21	136.86	137.19	137.82	138.10	137.67	141.64	144.23	140.81	137.52	137.04	136.97	137.02
22	.86	.27	.63	.22	.76	.34	.39	.48	.49	.04	.97	.00
23	.85	.61	.50	.36	138.08	140.89	.53	.14	.46	.04	.97	136.99
24	.85	138.12	.47	.48	.30	.67	.64	139.81	.43	.03	.97	.98
25	.85	.79	.44	.62	.59	.56	.76	.11	.40	.03	.97	.97
26	136.86	139.36	137.41	138.75	139.10	141.01	144.86	138.51	137.37	137.02	136.97	136.96
27	.87	.87	.38	.87	.61	.37	.94	.45	.34	.02	.97	.95
28	.88	140.39	.35	.99	.80	.73	145.06	.39	.31	.01	.97	.95
29	.89	.72	.32	139.04	.86	.70	.23	.31	.28	.01	.95	.95
30	.90	.78	.29	137.98	.85	.65	.34	.24	.25	.00	.95	.95
31		.68	.95	.82			.36		.23	.00		.95
Mean	136.87	137.77	138.84	137.79	138.50	140.91	143.12	141.96	137.70	137.09	136.98	136.99
Max.	136.90	140.78	140.39	139.04	139.86	141.94	145.36	145.40	138.21	137.21	136.99	137.05
Min.	136.85	136.93	137.29	137.22	137.67	139.64	141.15	138.24	137.23	137.00	136.97	136.95

WATER YEAR 1960 : Max. 145.40 m. Min. 136.85 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.49	6.60	171	14	81	133	268	707	48	13	7.80	7.40
2	5.49	7.00	152	14	79	132	289	713	46	12	7.80	7.40
3	5.49	7.20	133	14	78	133	292	694	44	12	7.80	7.40
4	5.49	7.20	118	13	76	136	296	682	43	12	7.80	7.40
5	5.49	7.40	119	13	73	136	296	664	42	12	7.80	7.60
6	5.49	7.60	124	13	69	130	267	643	40	11	7.80	7.80
7	5.49	7.60	130	13	64	123	243	586	39	11	7.80	8.00
8	5.49	7.80	136	13	58	133	231	532	38	11	7.60	8.21
9	5.32	7.80	143	13	52	158	225	479	36	11	7.60	8.21
10	5.32	8.00	148	13	45	183	244	431	35	11	7.60	8.00
11	5.32	8.21	152	14	38	219	257	383	34	10	7.60	7.80
12	5.32	8.21	150	15	32	258	287	344	33	10	7.60	7.80
13	5.32	8.42	139	17	36	278	290	324	32	10	7.60	7.80
14	5.32	8.63	125	18	39	264	269	304	30	9.89	7.60	7.40
15	5.32	8.84	109	20	38	254	298	282	29	9.68	7.60	7.60
16	5.49	9.05	93	23	36	234	362	263	27	9.47	7.60	8.21
17	5.49	9.47	79	27	35	243	405	246	26	9.47	7.60	8.42
18	5.49	9.47	66	30	32	254	428	234	25	9.26	7.60	9.05
19	5.49	10	52	34	29	270	465	222	24	9.26	7.60	9.05
20	5.32	11	40	38	27	286	489	211	23	9.05	7.60	8.84
21	5.32	12	32	43	27	262	512	200	22	8.84	7.40	8.42
22	5.32	14	25	48	30	239	535	177	21	8.84	7.40	8.00
23	5.15	25	21	54	42	206	554	155	20	8.84	7.40	7.80
24	5.15	44	20	60	51	190	571	133	19	8.68	7.40	7.60
25	5.15	75	19	67	65	183	591	92	18	8.68	7.40	7.40
26	5.32	106	18	73	91	214	609	61	17	8.42	7.40	7.20
27	5.49	137	17	79	121	241	623	58	16	8.42	7.40	7.00
28	5.66	171	17	85	133	269	645	56	15	8.21	7.40	7.00
29	5.83	194	16	88	136	266	678	52	15	8.21	7.40	7.00
30	6.00	198	15	85	136	262	700	49	14	8.00	7.40	7.00
31		190		82	134		705		13	8.00		7.00
Total	162.83	1,331.50	2,579	1,133	1,983	6,289	12,922	9,977	884	305.22	212.60	240.61
Mean	5.43	42.9	86.0	36.5	64.0	210	473	332	28.5	9.84	7.59	7.76
Max.	6.00	198	171	88	136	286	705	713	48	13	7.80	9.05
Min.	5.15	6.60	15	13	27	123	225	49	13	8.00	7.40	7.60
Runoff - mcm.	14.068	115.042	222.826	97.891	171.331	543.370	1,116.461	862.013	76.378	26.371	18.369	20.789

WATER YEAR 1960 : Max. 713 Min. 5.15 Mean 104 Annual Runoff 3,284.907 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 2	06.00	145.40	713				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
CHEE RIVER BASIN**

Chee River at Wat Thai Kosum, Maha Sarakham (E.1)

Location: Lat 16° - 15' - 02" N, Long 103° - 04' - 25" E, on right bank 800 meters north - east of the district office of Amphoe Kosum Phisai, Maha Sarakham.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at: -

Bench Mark: B.M. - E.1

Location: On right bank near the gage site.
Elevation: +149.116 m.(M.S.L.)

Gage Reading Frequency: 3 - time daily readings at 06.00, 09.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings.

Period of Available Gage Records: 1936 - 43, 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.
Rated by Float: -
Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

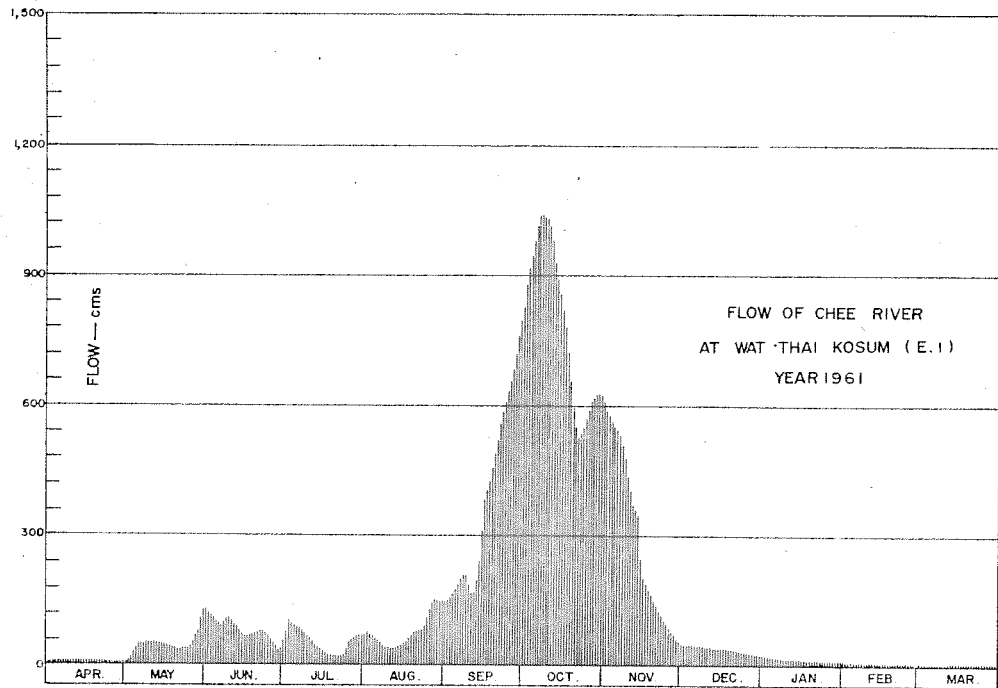
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.95	137.03	139.71	138.51	138.74	140.08	145.92	144.84	138.21	137.55	137.09	136.96
2	.95	.23	.58	.91	.76	.10	146.08	.74	.20	.50	.08	.96
3	.95	.46	.47	139.32	.70	.19	.20	.65	.19	.47	.08	.96
4	.95	.81	.40	.21	.63	.33	.30	.57	.18	.44	.07	.96
5	.95	138.03	.25	.09	.50	.49	.40	.50	.17	.40	.07	.96
6	136.95	138.23	139.17	139.03	138.39	140.65	146.50	144.45	138.16	137.38	137.06	136.95
7	.95	.27	.11	138.97	.29	.84	.54	.35	.15	.37	.06	.94
8	.96	.22	.24	.89	.13	.95	.57	.21	.14	.36	.06	.94
9	.96	.24	.43	.76	.03	.93	.56	143.95	.13	.35	.05	.94
10	.96	.28	.41	.61	.02	.57	.54	.56	.11	.34	.05	.94
11	136.97	138.30	139.27	138.51	138.01	140.28	146.50	143.24	138.10	137.33	137.05	136.94
12	.97	.27	.14	.38	.01	.37	.40	142.89	.08	.31	.04	.94
13	.98	.26	.03	.17	.03	.73	.24	.76	.06	.30	.04	.93
14	.98	.24	138.90	.11	.10	141.35	.11	.63	.05	.29	.03	.93
15	.98	.21	.72	137.92	.19	142.09	145.99	141.39	.03	.28	.03	.93
16	136.98	138.18	138.61	137.81	138.31	142.98	145.86	140.78	138.01	137.27	137.02	136.93
17	.98	.14	.62	.67	.43	143.29	.70	.60	.00	.25	.02	.93
18	.99	.10	.58	.60	.55	.52	.43	.40	137.99	.24	.01	.93
19	137.00	.05	.71	.55	.70	.79	.12	.21	.96	.23	.01	.93
20	.01	137.99	.74	.53	.81	144.06	144.80	.03	.93	.22	.00	.92
21	137.01	137.89	138.80	137.52	138.86	144.33	144.49	139.84	137.90	137.21	137.00	136.92
22	.00	.91	.86	.51	.88	.56	.31	.65	.87	.20	136.99	.92
23	.00	.95	.81	.54	.96	.73	.41	.47	.84	.19	.99	.92
24	136.99	.99	.72	.71	139.11	.86	.50	.29	.81	.18	.96	.92
25	.99	.93	.59	138.03	.42	145.00	.63	.14	.78	.16	.98	.92
26	136.99	138.11	138.43	138.37	139.73	145.12	144.75	138.97	137.75	137.15	136.97	136.91
27	.98	.39	.27	.49	.98	.26	.87	.80	.72	.14	.97	.91
28	.99	.66	.12	.59	140.11	.45	.91	.66	.69	.13	.97	.91
29	.98	.95	137.83	.65	.07	.61	.95	.50	.66	.12	.96	.91
30	.97	136.45	138.01	.68	.03	.77	.97	.35	.63	.11	.91	.91
31		.75		.71	.04		.94		.60	.10		.91
Mean	136.97	138.18	138.89	138.33	138.79	142.61	145.60	141.65	137.97	137.78	137.03	136.93
Max.	137.01	139.75	139.71	139.32	140.11	145.77	146.57	144.84	138.21	137.55	137.09	136.96
Min.	136.95	137.03	137.83	137.51	138.01	140.08	144.31	138.35	137.60	137.10	136.97	136.91

WATER YEAR 1961 : Max. 146.57 m. Min. 136.91 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.00	8.63	127	61	73	151	837	605	48	23	9.89	7.20
2	7.00	13	119	81	77	152	881	588	47	21	9.68	7.20
3	7.00	20	113	104	71	158	917	573	47	20	9.68	7.20
4	7.00	32	108	97	67	167	947	560	46	19	9.47	7.20
5	7.00	40	100	91	61	178	980	550	46	18	9.47	7.20
6	7.00	48	95	88	56	189	1,014	543	45	17	9.26	7.00
7	7.00	50	92	84	51	202	1,028	529	45	17	9.26	6.80
8	7.20	48	99	80	44	210	1,038	509	45	17	9.26	6.80
9	7.20	49	110	74	40	209	1,033	477	44	17	9.05	6.80
10	7.20	51	109	66	40	183	1,028	434	43	16	9.05	6.80
11	7.40	51	101	61	39	164	1,014	402	43	16	9.05	6.80
12	7.40	50	94	55	39	170	980	369	42	15	8.84	6.80
13	7.60	50	88	46	40	195	929	357	40	15	8.84	6.60
14	7.60	49	81	43	43	240	890	345	41	15	8.63	6.60
15	7.60	48	72	36	47	198	856	243	40	15	8.63	6.60
16	7.60	46	66	32	52	178	821	198	39	14	8.42	6.60
17	7.60	45	67	27	57	407	780	185	39	14	8.42	6.60
18	7.80	43	70	24	63	430	720	172	38	13	8.21	6.60
19	8.00	41	71	23	71	459	657	159	37	13	8.21	6.60
20	8.21	38	73	22	76	490	598	147	36	13	8.00	6.40
21	8.21	35	76	22	79	526	549	135	35	13	8.00	6.40
22	8.00	35	79	21	80	559	523	123	34	12	7.80	6.40
23	8.00	37	76	22	84	586	537	113	33	12	7.80	6.40
24	7.80	38	72	28	92	569	550	102	32	12	7.60	6.40
25	7.80	36	65	40	110	634	570	94	31	11	7.60	6.40
26	7.80	43	57	55	128	657	589	84	29	11	7.40	6.20
27	7.60	56	50	60	144	684	611	76	28	11	7.40	6.20
28	7.80	69	44	65	153	724	618	69	27	11	7.40	6.20
29	7.60	83	32	68	150	759	625	61	26	10	7.40	6.20
30	7.40	111	39	70	147	797	629	54	25	10	7.40	6.20
31	7.40	130	71	148	148	797	623	24	24	10	7.40	6.20
Total	225.42	1,493.63	2,445	1,717	2,422	11,565	24,372	8,856	1,175	451	240.32	205.60
Mean	7.51	48.2	81.5	55.4	78.1	385	786	295	37.9	14.5	8.58	6.63
Max.	8.21	130	127	104	153	797	1,038	605	48	23	9.89	7.20
Min.	7.00	8.63	32	21	39	151	523	54	24	10	7.40	6.20
Runoff - BCM.	19.476	129.050	211.248	148.349	209.26	999.216	2,105.741	765.158	101.520	38.966	20.764	17.764

WATER YEAR 1961 : Max. 1,038 Min. 6.20 Mean 151 Annual Runoff 4,766.513 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	08.00	146.57	1,038				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
CHEE RIVER BASIN

Chee River at Wat Thai Kosum, Maha Sarakham (E.1)

Location: Lat $16^{\circ} - 15' - 02''$ N, Long $103^{\circ} - 04' - 25''$ E, on right bank 800 meters north - east of the district office of Amphoe Kosum Phisai, Maha Sarakham.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at: -

Bench Mark: B.M. - E.1

Location: On right bank near the gage site.

Elevation: +149.116 m. (M.S.L.)

Gage Reading Frequency: 3 - time daily readings at 06.00, 09.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings.

Period of Available Gage Records: 1936 - 43, 1951 to date.

Rating Operation:

Period of Rating: 1965 to date.

Rated by Float: -

Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

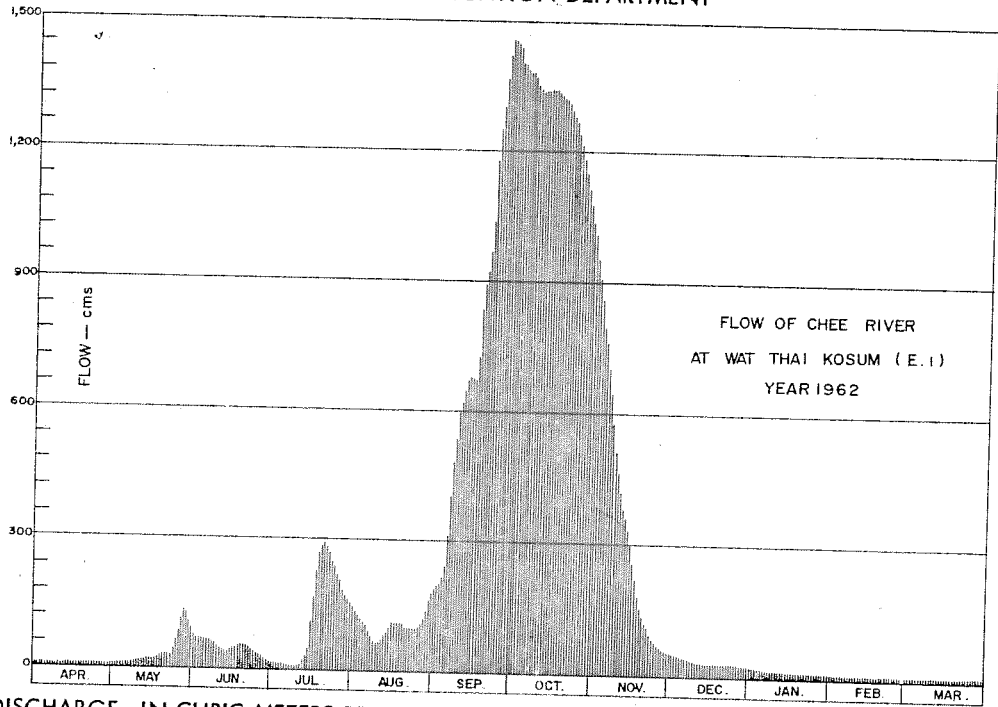
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965. No stage diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.91	137.09	138.79	137.39	140.02	140.71	147.62	146.32	138.29	137.51	137.10	136.94
2	.91	.10	.68	.31	139.89	.79	.54	.17	.24	.50	.09	.94
3	.91	.12	.69	.31	.75	.89	.54	145.97	.19	.48	.08	.93
4	.91	.15	.66	.31	.61	141.06	.51	.77	.14	.44	.07	.93
5	.90	.16	.64	.24	.48	.41	.49	.62	.10	.41	.06	.93
6	136.90	137.18	138.60	137.21	139.34	142.26	147.49	145.36	138.06	137.37	137.05	136.92
7	.90	.21	.56	.16	.13	143.27	.46	.06	.02	.35	.04	.92
8	.90	.24	.51	.16	138.90	.99	.42	144.67	137.98	.33	.03	.92
9	.90	.28	.44	.01	.67	144.42	.39	.23	.93	.31	.02	.92
10	.91	.33	.27	.01	.59	.83	.37	143.83	.87	.31	.01	.91
11	136.91	137.36	138.16	137.11	138.60	144.94	147.39	143.39	137.83	137.30	137.01	136.91
12	.92	.39	.10	.36	.76	145.08	.39	.01	.79	.29	.00	.91
13	.95	.47	.06	.62	.96	.20	.39	142.77	.76	.27	.00	.91
14	.94	.56	.06	.91	139.09	.23	.39	.46	.74	.25	136.99	.91
15	.95	.49	.14	138.61	.24	.22	.39	.09	.74	.23	.99	.91
16	136.96	137.51	138.21	139.53	139.30	145.21	147.37	141.57	137.73	137.21	136.99	136.91
17	.97	.57	.28	140.41	.31	.46	.36	.08	.73	.19	.98	.91
18	.99	.62	.44	141.25	.31	.91	.34	140.52	.73	.19	.98	.91
19	137.02	.72	.45	.76	.31	146.12	.33	.13	.73	.19	.98	.91
20	.03	.82	.41	142.01	.31	.22	.31	139.83	.72	.18	.97	.91
21	137.04	137.81	138.38	142.06	139.25	146.37	147.27	139.56	137.72	137.18	136.97	136.91
22	.03	.79	.29	141.94	.26	.57	.23	.39	.72	.17	.97	.91
23	.02	.76	.19	.79	.21	.96	.20	.10	.71	.17	.96	.91
24	.03	138.14	.08	.59	.21	147.15	.13	138.88	.70	.16	.96	.91
25	.03	.60	137.98	.36	.21	.29	.06	.74	.67	.16	.96	.91
26	136.99	139.06	137.90	141.11	139.29	147.45	146.98	138.64	137.67	137.15	136.95	136.91
27	.96	.51	.76	140.89	.41	.58	.89	.54	.62	.14	.95	.91
28	.93	.85	.64	.59	.65	.66	.79	.46	.60	.14	.94	.91
29	.95	.75	.54	.42	.93	.66	.69	.40	.58	.13	.91	.91
30	137.05	.40	.44	.31	140.30	.65	.58	.34	.56	.12	.91	.91
31		.13		.16	.61		.49		.54	.11		.91
Mean	136.96	137.88	138.24	139.29	139.35	145.02	147.25	141.93	137.82	137.26	137.00	136.91
Max.	137.05	139.85	138.79	142.06	140.61	147.66	147.62	146.32	138.29	137.51	137.10	136.94
Min.	136.90	137.09	137.44	137.01	138.59	140.71	146.49	138.34	137.54	137.11	136.94	136.91

WATER YEAR 1962 : Max. 147.66 m. Min. 136.90 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.20	9.89	75	18	147	193	1,436	954	51	21	10	6.80
2	6.20	10	70	15	138	199	1,403	908	49	21	10	6.80
3	6.20	10	70	15	130	206	1,403	851	47	20	9.89	6.60
4	6.20	11	69	15	121	218	1,390	797	45	19	9.47	6.60
5	6.00	11	68	13	113	244	1,382	762	43	18	9.26	6.60
6	6.00	12	66	13	105	313	1,382	705	40	17	9.05	6.40
7	6.00	13	64	11	93	405	1,370	645	40	17	8.84	6.40
8	6.00	13	61	11	81	482	1,354	576	38	16	8.63	6.40
9	6.00	15	58	8.21	69	539	1,342	512	36	15	8.42	6.40
10	6.20	16	50	8.21	65	603	1,334	463	34	15	8.21	6.20
11	6.20	17	45	10	66	623	1,342	417	32	15	8.21	6.20
12	6.40	18	43	17	74	649	1,342	380	31	15	8.00	6.20
13	6.60	20	40	25	84	672	1,342	358	30	14	8.00	6.20
14	6.80	23	40	35	91	678	1,342	330	29	14	7.80	6.20
15	7.00	21	45	66	99	676	1,342	298	29	13	7.80	6.20
16	7.20	21	48	116	103	674	1,334	256	29	13	7.80	6.20
17	7.40	23	51	172	103	726	1,330	219	29	12	7.60	6.20
18	7.80	25	58	232	103	855	1,322	180	29	12	7.60	6.20
19	8.42	28	58	271	103	893	1,318	154	29	12	7.60	6.20
20	8.63	32	56	291	103	923	1,310	134	28	12	7.40	6.20
21	8.84	32	55	296	100	970	1,295	118	28	12	7.40	6.20
22	8.63	31	51	286	100	1,038	1,279	108	28	12	7.40	6.20
23	8.42	30	47	274	97	1,177	1,268	91	28	12	7.20	6.20
24	8.63	45	42	258	97	1,249	1,241	80	28	11	7.20	6.20
25	8.63	66	38	240	97	1,302	1,215	73	27	11	7.20	6.20
26	7.80	89	35	222	102	1,366	1,184	68	27	11	7.00	6.20
27	7.20	115	30	206	109	1,420	1,150	63	25	11	7.00	6.20
28	6.60	136	26	185	123	1,453	1,114	59	24	11	6.80	6.20
29	7.00	130	22	173	141	1,453	1,079	56	24	11	6.20	6.20
30	9.05	108	19	166	165	1,449	1,041	53	23	10	6.20	6.20
31	93	93	156	186	186	1,011	1,011	22	22	10	6.20	6.20
Total	214.25	1,223.89	1,500	3,824.42	3,308	23,628	39,997	10,668	1,002	433	226.46	195.40
Mean	7.14	39.5	50	123	107	788	1,290	356	32.3	13.9	8.09	6.30
Max.	9.05	136	75	296	186	1,453	1,436	954	51	21	10	6.80
Min.	6.00	9.89	19	8.21	65	193	1,011	53	22	10	6.80	6.20
Runoff - mcm.	18.511	105.744	129.600	330.394	285.811	2,041.459	3,455.741	921.715	86.573	37.411	19.566	16.882

WATER YEAR 1962 : Max. 1,453 Min. 6.00 Mean 236 Annual Runoff 7,449.408 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	06.00	147.66	1,453				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

WATER YEAR 1960
CHEE RIVER BASIN

Chee River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 16°-15'-02" N, Long 103°-04'-25" E, on left bank, 1.5 kilometers south of the office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No.97

Location: 15 meters east of the district post office.

Elevation: +126.972 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 of 5 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: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

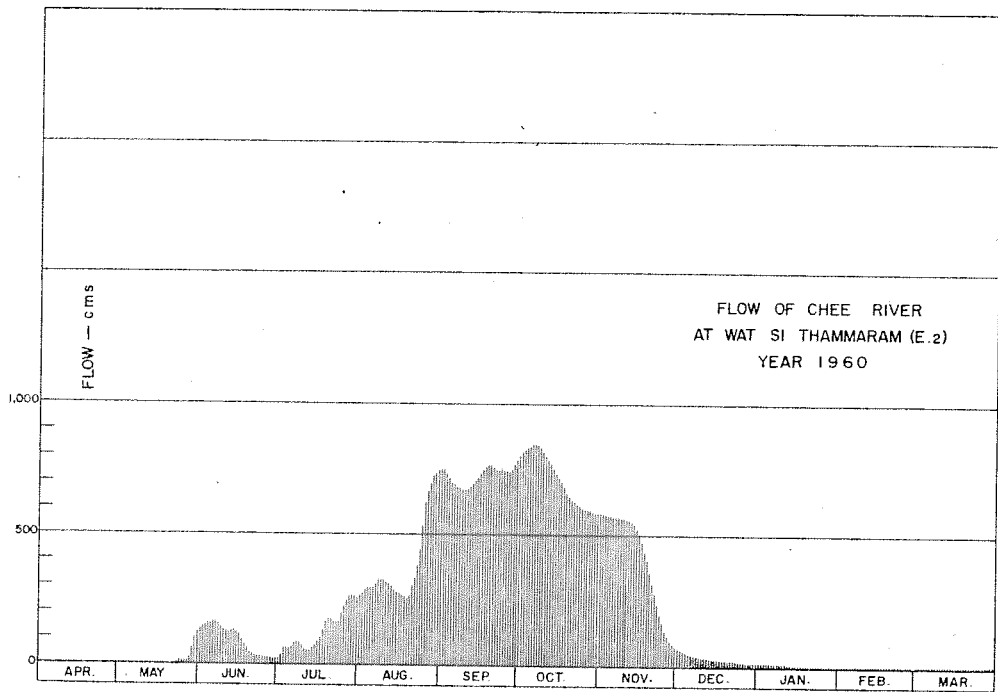
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.18	118.07	120.72	118.96	122.08	125.36	125.56	124.52	119.83	118.66	118.37	118.30
2	.17	.06	.81	119.35	.15	.36	.61	.51	.75	.66	.36	.30
3	.16	.06	.86	.75	.30	.31	.65	.49	.68	.65	.35	.30
4	.16	.06	.99	.80	.35	.24	.67	.47	.58	.63	.35	.31
5	.16	.08	.95	.71	.34	.15	.68	.46	.50	.62	.35	.31
6	118.15	118.10	120.98	119.83	122.36	125.13	125.71	124.45	119.44	118.61	118.35	118.32
7	.14	.12	.99	120.02	.47	.08	.71	.44	.40	.59	.34	.39
8	.14	.11	.91	.10	.63	.07	.70	.43	.36	.58	.34	.37
9	.13	.15	.82	.04	.60	.05	.67	.41	.32	.57	.34	.36
10	.12	.18	.71	119.90	.61	.03	.62	.40	.28	.56	.34	.35
11	118.12	118.19	120.61	119.72	122.56	125.04	125.56	124.38	119.24	118.55	118.34	118.35
12	.12	.20	.56	.56	.51	.08	.50	.37	.20	.53	.33	.33
13	.12	.22	.63	.56	.40	.14	.46	.32	.17	.51	.33	.33
14	.11	.20	.67	.72	.29	.19	.39	.26	.14	.49	.33	.31
15	.11	.19	.59	.92	.19	.25	.31	.16	.10	.47	.32	.29
16	118.11	118.17	120.48	120.15	122.15	125.31	125.25	124.02	119.07	118.45	118.32	118.27
17	.11	.15	.20	.37	.08	.37	.17	123.80	.04	.44	.32	.26
18	.10	.16	119.94	.72	.03	.42	.08	.54	.01	.43	.32	.25
19	.10	.19	.70	121.07	121.95	.43	124.97	.28	118.98	.43	.32	.24
20	.10	.20	.50	.13	122.08	.43	.91	122.89	.95	.43	.32	.23
21	118.10	118.20	119.37	121.12	122.40	125.41	124.84	122.53	118.93	118.42	118.31	118.23
22	.10	.24	.26	.05	.70	.37	.78	.17	.92	.42	.31	.23
23	.09	.44	.19	.00	123.13	.37	.73	121.77	.68	.41	.31	.23
24	.09	.55	.15	.06	.59	.39	.68	.39	.85	.41	.31	.22
25	.09	.55	.12	.37	124.21	.36	.65	.03	.82	.40	.31	.22
26	118.09	118.61	119.10	121.63	124.78	125.35	124.61	120.71	118.79	118.39	118.31	118.22
27	.09	.73	.05	.86	125.00	.34	.60	.41	.76	.39	.30	.22
28	.08	.96	118.99	122.03	.15	.37	.58	.21	.73	.39	.30	.22
29	.08	119.69	.94	.09	.26	.44	.56	.06	.71	.38	.22	.22
30	.07	120.27	.90	.07	.31	.51	.54	119.94	.69	.38	.22	.22
31		.57		.01	.35		.53		.67	.38		
Mean	118.12	118.44	120.09	120.54	123.00	125.28	125.17	123.13	119.12	118.49	118.33	118.28
Max.	118.18	120.57	120.99	122.09	125.35	125.51	125.71	124.52	119.83	118.66	118.37	118.39
Min.	118.07	118.06	118.90	118.96	121.95	125.03	124.53	119.94	118.67	118.38	118.30	118.22

WATER YEAR 1960 : Max. 125.71 m. Min. 118.06 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.80	1.11	138	24	267	746	801	581	70	14	6.40	5.00
2	2.64	0.98	146	41	275	746	815	580	65	14	6.20	5.00
3	2.48	0.98	150	65	291	733	827	576	60	14	6.00	5.00
4	2.48	0.98	160	68	297	717	833	573	54	13	6.00	5.20
5	2.48	1.24	159	62	295	697	836	572	49	13	6.00	5.20
6	2.32	1.50	161	70	298	693	845	570	45	12	6.00	5.20
7	2.16	1.80	162	83	310	682	845	568	43	12	5.80	6.80
8	2.16	1.60	155	89	327	680	842	567	41	12	5.80	6.40
9	2.00	2.32	147	85	324	676	833	564	39	11	5.80	6.20
10	1.80	2.80	137	75	325	672	818	562	37	11	5.80	6.00
11	1.80	2.96	129	63	320	674	801	559	35	11	5.80	6.00
12	1.80	3.12	125	53	314	682	784	558	33	10	5.60	5.60
13	1.80	3.44	130	53	302	695	773	550	32	9.68	5.60	5.60
14	1.60	3.12	134	63	290	706	753	541	31	9.16	5.60	5.20
15	1.60	2.96	127	76	279	719	733	526	29	8.64	5.40	4.80
16	1.60	2.64	118	93	275	733	719	505	28	8.12	5.40	4.40
17	1.60	2.32	96	110	267	748	701	474	27	7.86	5.40	4.20
18	1.50	2.48	78	138	262	762	682	439	26	7.60	5.40	4.00
19	1.50	2.96	62	169	254	764	660	405	24	7.60	5.40	3.80
20	1.50	3.12	49	175	267	764	649	358	23	7.60	5.40	3.60
21	1.50	3.12	41	174	302	759	636	316	23	7.40	5.20	3.60
22	1.50	3.80	36	168	335	748	626	277	22	7.40	5.20	3.60
23	1.37	7.86	33	163	387	748	617	236	21	7.20	5.20	3.60
24	1.37	11	31	168	446	753	609	198	20	7.20	5.20	3.44
25	1.37	11	30	196	534	746	604	166	19	7.00	5.20	3.44
26	1.37	12	29	222	626	743	597	137	18	6.80	5.20	3.44
27	1.37	16	27	245	666	740	595	113	17	6.80	5.00	3.44
28	1.24	24	25	262	697	748	592	97	16	6.80	5.00	3.44
29	1.24	61	23	268	721	767	588	86	15	6.60	5.00	3.44
30	1.11	102	21	266	753	787	585	78	15	6.60	5.00	3.44
31	1.11	126	21	260	743		583		14	6.60	5.00	3.44
Total	53.06	422.21	2,859	4,047	12,029	21,828	22,182	12,332	991	289.66	156.00	141.52
Mean	1.77	13.6	95.3	130	388	728	715	411	31.9	9.34	5.57	4.56
Max.	2.80	126	162	268	743	787	845	581	70	14	6.40	6.80
Min.	1.11	0.98	21	24	254	672	583	78	14	6.60	5.00	3.44
Runoff - mcm.	4.584	36.479	247.018	349.661	1,039.306	1,865.939	1,916.525	1,065.485	85.622	25.027	13.478	12.227

WATER YEAR 1960 : Max. 845 Min. 0.98 Mean 212 Annual Runoff 6,681.351 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	18.00	125.72	849				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
CHEE RIVER BASIN

Chee River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 16° - 15' - 02" N, Long 103° - 04' - 25" E, on left bank, 1.5 kilometers south of the office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No.97

Location: 15 meters east of the district post office.

Elevation: +126.972 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 of 5 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: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

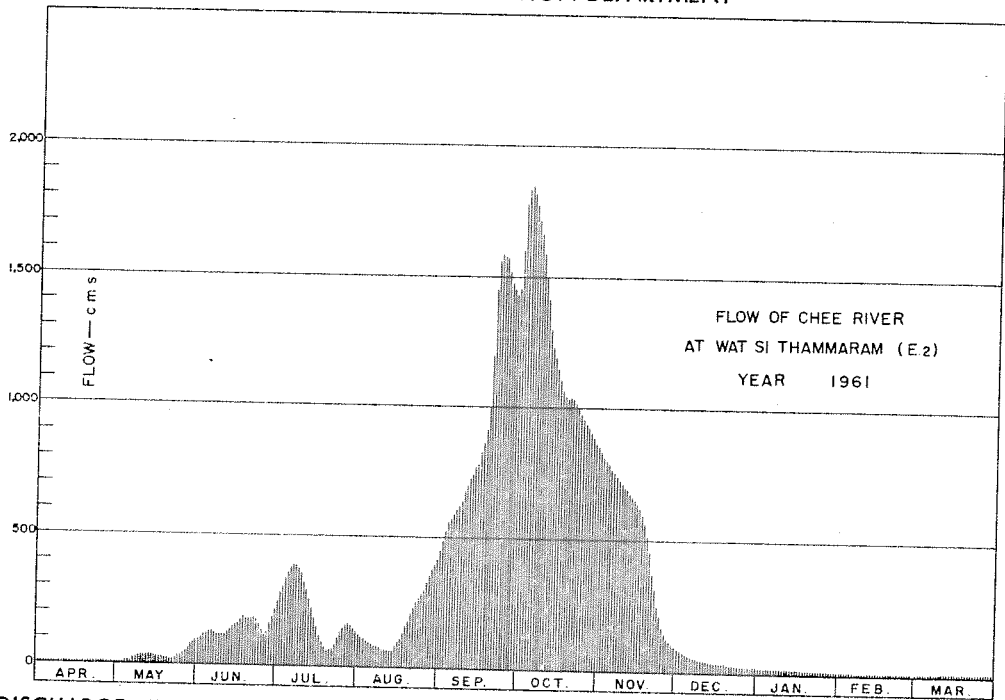
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.22	118.30	120.22	121.89	120.51	123.62	126.72	125.67	120.04	118.84	118.53	118.42
2	.22	.28	.53	122.21	.40	.90	.86	.62	119.93	.83	.53	.42
3	.22	.25	.44	.47	.30	124.17	.90	.56	.83	.81	.52	.42
4	.22	.62	.49	.69	.21	124.37	.91	.51	.76	.79	.52	.41
5	.22	.60	.54	.89	.14	.45	.89	.44	.69	.78	.51	.41
6	118.22	118.54	120.58	123.05	120.06	124.56	126.86	125.40	119.64	118.76	118.51	118.40
7	.22	.85	.53	.11	119.97	.65	.81	.34	.58	.75	.50	.40
8	.22	119.03	.48	.13	.97	.74	.77	.28	.54	.74	.50	.40
9	.22	.11	.46	.02	.90	.86	.71	.22	.48	.73	.50	.39
10	.23	.17	.47	122.83	.81	125.04	.64	.16	.43	.72	.49	.39
11	118.24	119.20	120.48	122.56	119.75	125.16	126.57	125.10	119.39	118.72	118.49	118.39
12	.25	.20	.52	.28	.72	.28	.47	.04	.35	.71	.48	.39
13	.26	.24	.67	121.98	.72	.35	.40	124.97	.30	.70	.48	.39
14	.23	.23	.81	.61	.73	.46	.36	.91	.27	.69	.48	.39
15	.23	.20	.90	.22	120.01	.57	.30	.81	.26	.67	.46	.39
16	118.48	119.12	120.94	120.86	120.20	125.65	126.25	124.73	119.24	118.65	118.46	118.39
17	.48	.04	121.10	.45	.30	.75	.19	.59	.21	.63	.45	.40
18	.40	118.99	.20	.10	.66	.90	.15	.38	.18	.62	.45	.40
19	.36	.96	.18	119.85	.95	126.07	.13	.03	.14	.61	.45	.40
20	.35	.91	.12	.68	121.13	.36	.14	123.55	.09	.60	.44	.40
21	118.34	118.87	121.17	119.70	121.46	126.57	126.14	122.99	119.07	118.59	118.44	118.39
22	.44	.85	.20	.82	.68	.69	.11	.45	.04	.59	.44	.38
23	.48	.98	.11	120.10	.91	.71	.08	121.88	.01	.58	.43	.37
24	.44	119.15	120.95	.36	122.06	.70	.03	.45	.00	.57	.43	.36
25	.41	.19	.67	.62	.16	.70	125.99	.02	118.97	.56	.43	.36
26	118.40	119.35	120.48	120.83	122.34	126.66	125.95	120.75	118.95	118.55	118.43	118.36
27	.39	.55	.62	.97	.57	.62	.92	.55	.93	.55	.42	.36
28	.37	.70	.97	.98	.82	.60	.88	.42	.92	.54	.42	.35
29	.34	.96	121.23	.92	123.04	.58	.84	.31	.90	.53	.35	.35
30	.32	120.10	.57	.80	.23	.60	.78	.17	.88	.53	.35	.35
31		.17		.67	.35		.73		.87	.53		.35
Mean	118.31	119.09	120.78	121.41	120.97	125.48	126.34	123.74	119.29	118.66	118.47	118.39
Max.	118.48	120.17	121.57	123.13	123.35	126.71	126.91	125.67	120.04	118.84	118.53	118.42
Min.	118.22	118.25	120.22	119.68	119.72	123.62	125.73	120.17	118.87	118.53	118.42	118.35

WATER YEAR 1961 : Max. 126.91 m. Min. 118.22 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.44	5.00	98	248	121	450	1,596	833	85	19	10	7.40
2	3.44	4.60	106	281	112	488	1,778	818	77	19	10	7.40
3	3.44	4.00	115	310	104	528	1,830	801	70	18	9.94	7.40
4	3.44	13	119	334	97	558	1,843	787	66	18	9.94	7.20
5	3.44	12	123	358	92	570	1,817	767	61	18	9.68	7.20
6	3.44	10	126	377	86	588	1,778	756	57	17	9.68	7.00
7	3.44	20	122	384	80	604	1,713	740	54	17	9.42	7.00
8	3.44	26	118	387	80	619	1,661	726	51	16	9.42	7.00
9	3.44	30	117	373	75	640	1,583	712	48	16	9.42	7.00
10	3.60	32	118	351	69	674	1,498	699	45	16	9.16	6.80
11	3.80	33	118	320	65	699	1,414	686	42	16	9.16	6.80
12	4.00	33	122	289	63	726	1,300	674	41	15	8.90	6.80
13	4.20	35	134	257	63	743	1,230	660	38	15	8.90	6.80
14	3.60	35	146	220	64	773	1,196	649	37	15	8.90	6.80
15	3.60	33	154	183	83	804	1,145	631	36	14	8.38	6.80
16	8.90	30	159	150	96	827	1,109	617	35	14	8.38	6.80
17	8.90	27	172	116	110	859	1,068	593	34	13	8.12	7.00
18	7.00	25	181	89	133	916	1,044	559	33	13	8.12	7.00
19	6.20	24	179	72	159	998	1,032	507	31	12	8.12	7.00
20	6.00	22	174	60	175	1,196	1,038	441	29	12	7.86	7.00
21	5.80	20	178	62	205	1,414	1,038	370	28	12	7.86	6.80
22	7.86	20	181	69	227	1,558	1,020	308	27	12	7.86	6.60
23	8.90	24	173	89	250	1,583	1,003	247	26	12	7.60	6.40
24	7.86	31	159	109	265	1,570	976	204	25	11	7.60	6.20
25	7.20	33	134	130	276	1,570	956	165	24	11	7.60	6.20
26	7.00	41	118	148	295	1,522	938	141	23	11	7.60	6.20
27	6.80	52	130	160	321	1,474	925	124	23	11	7.40	6.20
28	6.40	62	160	161	349	1,450	908	114	22	10	7.40	6.00
29	5.80	79	184	156	376	1,426	892	105	21	10	7.40	6.00
30	5.40	89	216	145	399	1,450	869	94	21	10	7.40	6.00
31		94		134	415		852		20	10		6.00
Total	159.78	998.60	4,333	6,522	5,305	29,277	39,050	15,528	1,230	433	242.42	208.60
Mean	5.33	32.2	144	210	171	976	1,260	518	39.7	14	8.66	9.95
Max.	8.90	94	216	387	415	1,583	1,843	833	85	19	10	7.40
Min.	3.44	4.00	98	60	63	450	852	94	20	10	7.40	6.00
Runoff - mcm.	13.805	86.279	374.371	563.501	458.352	2,529.533	3,373.920	1,341.619	106.272	37.411	20.945	18.023

WATER YEAR 1961 : Max. 1,843 Min. 3.44 Mean 283 Annual Runoff 8,924.031 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 4	06.00	126.91	1,843				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
CHEE RIVER BASIN

Chee River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 16°- 15' - 02" N, Long 103°- 04' - 25" E, on left bank, 1.5 kilometers south of the office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: -

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No.97

Location: 15 meters east of the district post office.

Elevation: +126.972 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 of 5 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: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

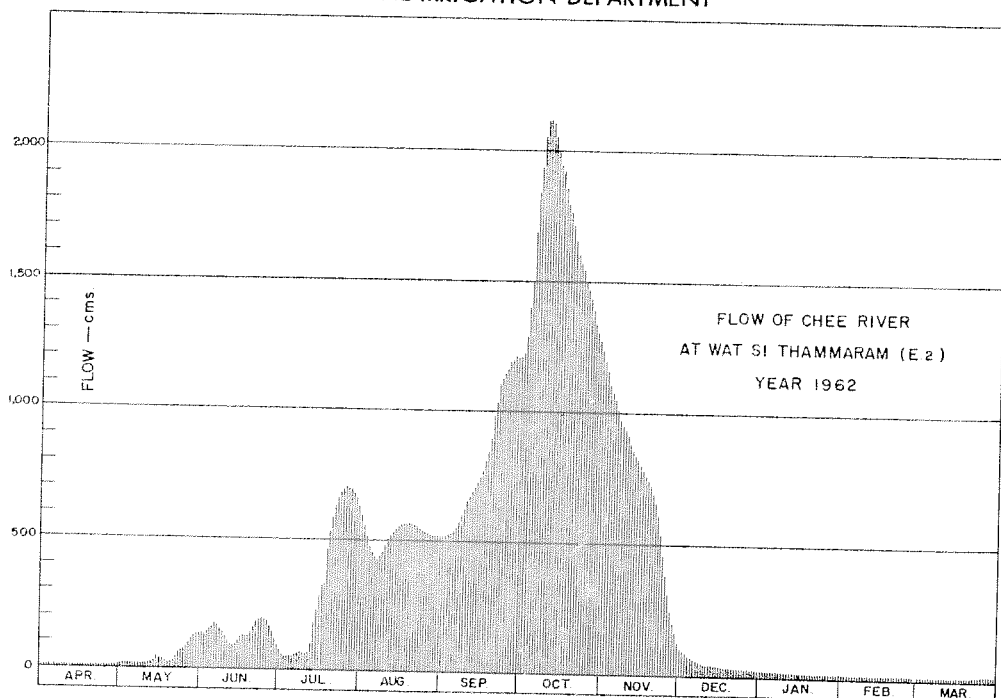
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.35	118.68	120.68	119.87	124.62	124.12	126.40	126.36	120.35	119.02	118.67	118.54
2	.34	.72	.68	.66	.39	.15	.46	.32	.18	.01	.66	.53
3	.34	.76	.84	.54	.09	.18	.57	.25	.03	118.99	.66	.53
4	.34	.68	.95	.54	123.81	.23	.67	.20	119.93	.97	.65	.52
5	.33	.66	121.04	.60	.64	.31	.79	.16	.83	.96	.65	.52
6	118.33	118.69	121.10	119.62	123.50	124.40	126.91	126.10	119.74	118.95	118.65	118.52
7	.32	.73	.04	.69	.46	.52	.98	.03	.69	.93	.65	.52
8	.32	.74	120.95	.81	.55	.67	127.07	125.99	.55	.92	.65	.52
9	.32	.72	.75	.86	.72	.79	.12	.95	.49	.90	.65	.52
10	.33	.72	.54	.82	.88	.93	.12	.89	.48	.89	.65	.52
11	118.33	118.75	120.36	119.76	124.02	125.05	127.11	125.82	119.47	118.87	118.64	118.51
12	.32	.83	.20	.87	.13	.15	.07	.75	.46	.87	.63	.51
13	.32	119.04	.11	120.44	.21	.23	.03	.69	.43	.86	.63	.51
14	.32	.22	.24	121.24	.29	.30	126.99	.64	.39	.85	.62	.51
15	.32	.35	.43	.85	.35	.38	.97	.57	.37	.83	.61	.51
16	118.32	119.28	120.58	122.25	124.39	125.45	126.92	125.51	119.33	118.82	118.61	118.51
17	.33	.16	.64	.63	.41	.60	.88	.43	.29	.82	.60	.51
18	.33	.04	.63	123.10	.43	.73	.85	.35	127.27	.81	.60	.50
19	.32	118.99	.65	.74	.42	.89	.81	.27	.25	.80	.59	.50
20	.32	.99	.79	124.25	.42	126.04	.77	.15	.24	.80	.59	.50
21	118.31	119.10	121.06	124.62	124.37	126.14	126.73	124.97	119.22	118.79	118.58	118.50
22	.31	.40	.22	.84	.34	.25	.70	.70	.19	.78	.58	.56
23	.31	.70	.33	.99	.32	.28	.68	.24	.17	.76	.57	.54
24	.34	.84	.37	125.08	.27	.30	.65	123.70	.17	.75	.57	.54
25	.34	.91	.32	.15	.22	.33	.62	.08	.15	.74	.56	.56
26	118.33	120.06	121.22	125.17	124.17	126.36	126.59	122.47	119.13	118.73	118.56	118.57
27	.38	.28	.02	.17	.15	.36	.55	121.88	.11	.72	.55	.60
28	.42	.50	120.77	.14	.13	.36	.51	.41	.09	.70	.54	.60
29	.50	.64	.48	.07	.13	.37	.48	120.99	.08	.69	.59	.59
30	.58	.69	.15	124.98	.13	.37	.45	.58	.06	.68	.59	.59
31		.69		.83	.12		.41		.04	.68		.59
Mean	118.34	119.31	120.77	122.50	124.13	124.41	126.77	124.81	119.42	118.83	118.61	118.53
Max.	118.58	120.69	121.37	125.17	124.62	126.38	127.12	126.36	120.35	119.02	118.67	118.60
Min.	118.31	118.66	120.11	119.54	123.46	124.12	126.40	120.58	119.04	118.68	118.54	118.50

WATER YEAR 1962 : Max. 127.12 m. Min. 118.31 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.00	14	134	73	598	520	1,230	1,196	108	26	14	10
2	5.80	16	134	59	561	525	1,290	1,162	95	26	14	10
3	5.80	17	149	51	516	529	1,414	1,109	84	25	14	10
4	5.80	14	159	51	475	537	1,534	1,074	77	24	14	9.94
5	5.60	14	167	55	452	549	1,687	1,050	70	24	14	9.94
6	5.60	15	172	56	434	562	1,843	1,014	64	23	14	9.94
7	5.40	16	167	61	429	581	1,934	976	61	23	14	9.94
8	5.40	16	159	69	441	607	2,051	956	52	22	14	9.94
9	5.40	16	141	72	465	627	2,116	938	48	21	14	9.94
10	5.60	16	123	69	485	653	2,116	912	48	21	14	9.94
11	5.60	17	109	66	505	676	2,103	884	47	20	13	9.68
12	5.40	19	96	73	522	697	2,051	859	47	20	13	9.68
13	5.40	27	90	115	534	715	1,999	839	45	20	13	9.68
14	5.40	34	99	185	546	730	1,947	824	42	20	13	9.68
15	5.40	41	144	244	555	751	1,921	804	41	19	12	9.68
16	5.40	37	126	286	561	770	1,856	787	40	19	12	9.68
17	5.60	32	131	327	564	812	1,804	764	38	19	12	9.68
18	5.60	27	130	383	567	852	1,765	745	37	18	12	9.42
19	5.40	25	132	466	565	912	1,713	723	36	18	12	9.42
20	5.40	25	144	540	565	982	1,661	697	35	18	12	9.42
21	5.20	29	162	598	558	1,038	1,609	660	34	18	12	9.42
22	5.20	43	183	636	553	1,109	1,570	612	33	18	12	11
23	5.20	62	193	664	550	1,131	1,546	538	32	17	11	10
24	5.80	71	196	682	543	1,145	1,510	460	32	17	11	10
25	5.80	76	192	697	535	1,170	1,474	381	31	16	11	11
26	5.60	86	183	701	528	1,196	1,438	310	30	16	11	11
27	6.60	102	165	701	525	1,196	1,390	247	30	16	11	12
28	7.40	120	142	695	522	1,213	1,342	200	29	15	10	12
29	9.42	131	118	680	522	1,205	1,310	162	28	15	12	12
30	12	135	93	662	522	1,205	1,280	126	28	14	12	12
31		135		634	520		1,240		27	14	12	12
Total	179.22	1,428	4,309	10,651	16,216	25,195	51,744	22,097	1,449	602	353	318.02
Mean	5.97	46	144	343	523	840	1,669	733	46.7	19.4	12.6	10.3
Max.	12	135	196	701	598	1,213	2,116	1,196	108	26	14	12
Min.	5.20	14	90	51	429	520	1,230	126	27	14	10	9.42
Runoff - mcm.	15.485	123.379	372.298	920.246	1,401.062	2,176.848	4,470.682	1,901.405	125.194	52.013	30.499	27.477

WATER YEAR 1962 : Max. 2,116 Min. 5.20 Mean 368 Annual Runoff 11,616.587 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.9	18.00	127.12	2,116				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHEE RIVER BASIN

Chee River at Tha Khon Yang, Maha Sarakham (E.8A)

Location: Lat $16^{\circ} - 13' - 51''$ N, Long $103^{\circ} - 16' - 29''$ E, on right bank at the bridge on highway Maha Sarakham - Kalasin, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,817 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.21 m. (M.S.L.)

Bench Mark: B.M. - H.S. No.6

Location: On the right abutment of bridge.
Elevation: + 147.910 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: 1955 to date.

Rating Operation:

Period of Rating: 1955 - 57, 1964 to date.

Rated by Float: -

Rated by Current Meter: 1955 - 57, 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

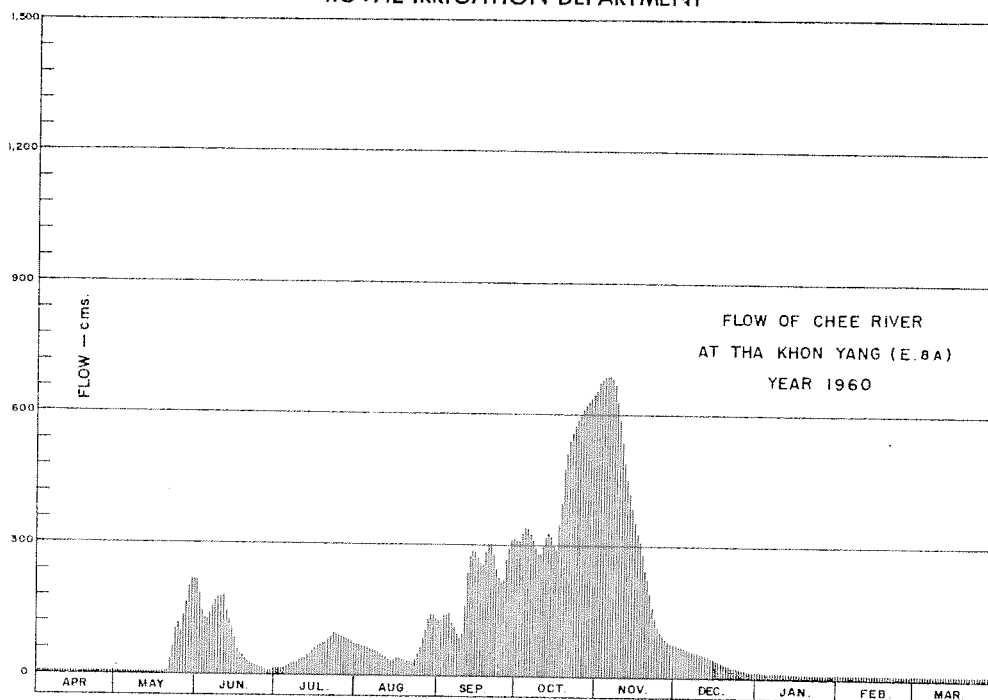
General Description: Records fair. Stage - discharge relationship used if defined by discharge measurements during 1955 - 57. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.63	133.57	137.59	133.97	135.18	136.22	138.83	142.12	135.19	133.93	133.82	133.78
2	.63	.58	.12	134.00	.14	.27	.85	.17	.15	.92	.81	.78
3	.63	.58	136.51	.03	.10	.43	139.04	.20	.08	.91	.80	.78
4	.62	.59	.28	.07	.06	.42	.20	.22	.05	.90	.79	.78
5	.62	.59	.22	.11	.01	.31	.19	.22	.05	.89	.78	.78
6	133.62	133.59	136.41	134.18	134.97	136.14	139.05	142.18	134.98	133.88	133.78	133.78
7	.61	.60	.70	.26	.92	135.92	138.88	.06	.92	.88	.78	.78
8	.61	.60	.87	.32	.88	.68	.65	141.82	.88	.87	.78	.78
9	.61	.60	.98	.37	.82	.49	.45	.50	.85	.86	.78	.78
10	.60	.59	137.03	.45	.74	.65	.45	.05	.85	.86	.78	.78
11	133.60	133.59	137.07	134.53	134.67	136.70	138.66	140.69	134.80	133.85	133.78	133.77
12	.60	.59	136.59	.61	.61	137.87	.94	.32	.75	.85	.78	.77
13	.60	.58	.28	.70	.50	138.43	139.03	139.99	.71	.84	.78	.77
14	.60	.58	135.93	.80	.43	.58	138.94	.66	.65	.84	.78	.77
15	.59	.58	.49	.90	.42	.52	.72	.36	.59	.84	.78	.77
16	133.59	133.58	134.96	135.02	134.57	138.32	138.70	139.06	134.53	133.85	133.78	133.76
17	.59	.58	.75	.15	.58	.19	139.24	138.79	.47	.85	.78	.76
18	.59	.58	.66	.23	.55	.27	140.03	.48	.43	.82	.78	.76
19	.59	.63	.54	.28	.49	.55	.55	137.92	.37	.82	.78	.76
20	.58	.71	.39	.33	.44	.75	.86	.66	.30	.81	.78	.76
21	133.58	133.79	134.29	135.43	134.40	138.73	141.11		134.24	133.81	133.78	133.75
22	.58	134.43	.23	.57	.37	.46	.26	137.14	.18	.80	.78	.75
23	.58	135.10	.17	.68	.50	.06	.40	.25	.13	.80	.78	.75
24	.57	.84	.11	.67	.76	137.73	.50	135.97	.08	.79	.78	.74
25	.57	136.03	.02	.58	135.05	.56	.59	.77	.05	.79	.78	.75
26	133.57	136.18	133.99	135.54	135.40	137.82	141.68	135.62	134.01	133.78	133.78	133.77
27	.57	.29	.95	.49	.80	138.29	.76	.49	133.99	.77	.78	.78
28	.56	.81	.91	.44	136.27	.63	.81	.38	.97	.76	.78	.79
29	.56	137.33	.91	.38	.42	.83	.87	.30	.96	.75	.78	.78
30	.56	.64	.96	.30	.39	.89	.93	.25	.95	.75	.78	.77
31		.65		.22	.26		.98		.94	.75		.75
Mean	133.59	134.48	135.43	134.89	134.99	137.52	140.00	139.01	134.52	133.83	133.78	133.77
Max.	133.63	137.65	137.59	135.68	136.42	138.89	141.98	142.22	135.19	133.93	133.82	133.79
Min.	133.56	133.57	133.91	133.97	134.37	135.49	138.45	135.25	133.94	133.75	133.78	133.74

WATER YEAR 1960 : Max. 142.22 m. Min. 133.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.90	1.40	216	13	70	128	309	669	70	12	8.60	7.40
2	2.90	1.60	185	14	68	131	311	677	67	12	8.30	7.40
3	2.90	1.60	146	15	66	141	327	681	65	11	8.00	7.40
4	2.60	1.80	132	17	64	140	340	684	63	11	7.70	7.40
5	2.60	1.80	128	18	61	134	340	684	62	11	7.40	7.40
6	2.60	1.80	140	22	59	123	328	678	60	10	7.40	7.40
7	2.30	2.00	158	25	57	110	313	661	57	10	7.40	7.40
8	2.30	2.00	169	28	55	96	294	628	55	10	7.40	7.40
9	2.30	2.00	176	30	52	86	278	585	53	9.80	7.40	7.40
10	2.00	1.80	179	34	48	95	278	530	52	9.80	7.40	7.40
11	2.00	1.80	182	37	44	158	295	487	51	9.50	7.40	7.10
12	2.00	1.80	151	41	41	234	318	448	48	9.50	7.40	7.10
13	2.00	1.60	132	46	36	276	326	415	46	9.20	7.40	7.10
14	2.00	1.60	111	51	33	288	318	382	43	9.20	7.40	7.10
15	1.80	1.60	86	56	32	284	300	354	40	9.20	7.40	7.10
16	1.80	1.60	59	62	39	268	298	329	37	8.90	7.40	6.80
17	1.80	1.60	48	68	40	258	344	306	35	8.90	7.40	6.80
18	1.80	1.60	44	72	38	264	419	280	33	8.60	7.40	6.80
19	1.80	2.90	38	75	35	284	472	238	30	8.60	7.40	6.80
20	1.60	5.30	31	77	33	302	507	220	27	8.30	7.40	6.80
21	1.60	7.70	27	83	31	301	537	187	24	8.30	7.40	6.50
22	1.60	33	24	90	30	279	555	153	22	8.00	7.40	6.50
23	1.60	66	21	96	36	248	572	130	19	8.00	7.40	6.50
24	1.40	105	18	96	49	225	585	113	17	7.70	7.40	6.20
25	1.40	117	15	91	63	214	597	101	16	7.70	7.40	6.50
26	1.40	126	14	89	81	231	608	93	14	7.40	7.40	7.10
27	1.40	132	12	86	103	265	619	86	14	7.10	7.40	7.40
28	1.20	165	11	83	131	292	626	80	13	6.80	7.40	7.70
29	1.20	199	11	80	140	309	635	76	13	6.50	7.40	7.40
30	1.20	219	13	76	138	314	643	73	12	6.50	7.10	7.10
31		220		72	131		650		12	6.50		6.50
Total	58.00	1,428.90	2,677	1,743	1,904	6,478	13,342	11,028	1,170	227.00	210.20	218.90
Mean	1.93	46.1	89.2	56.2	61.4	216	430	368	37.7	8.93	7.51	7.06
Max.	2.90	220	216	96	140	314	650	684	70	12	8.60	7.70
Min.	1.20	1.40	11	13	30	86	278	73	12	6.50	7.40	6.20
Runoff - mcm.	5.011	123.457	231.293	150.595	164.506	559.699	1,152.749	952.819	101.088	23.933	18.161	18.913

WATER YEAR 1960 : Max. 684 Min. 1.20 Mean 111 Annual Runoff 3,502,224 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 4	06.00	142.22	684				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHEE RIVER BASIN

Chee River at Tha Khon Yang, Maha Sarakham (E.8A)

Location: Lat 16^o-13'-51" N, Long 103^o-16'-29" E, on right bank at the bridge on highway Maha Sarakham - Kalasin, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,817 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.21 m.(M.S.L.)

Bench Mark: B.M. - H.S. No.6

Location: On the right abutment of bridge.
Elevation: +147.910 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: 1955 to date.

Rating Operation:

Period of Rating: 1955 - 57, 1964 to date.

Rated by float:

Rated by Current Meter: 1955 - 57, 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

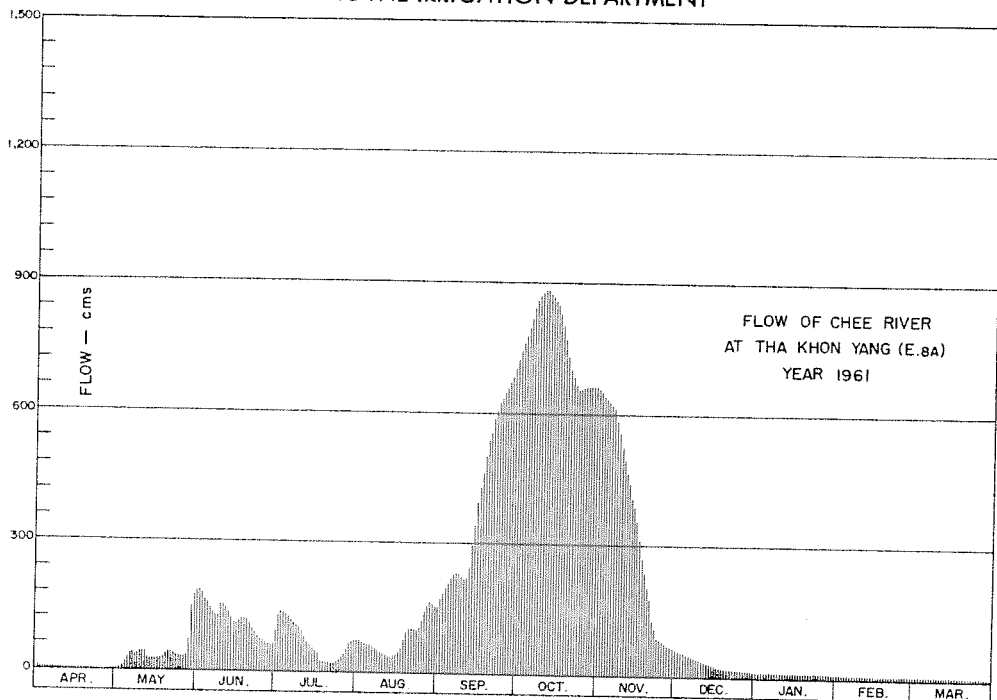
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1955 - 57. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.74	133.67	137.15	135.68	135.30	136.66	142.49	142.02	134.98	133.94	133.84	133.75
2	.73	.72	.18	136.31	.26	.93	.63	141.97	.92	.94	.83	.74
3	.72	.79	.05	.43	.16	137.12	.73	.89	.87	.94	.85	.74
4	.70	134.09	136.87	.38	.10	.29	.83	.85	.81	.94	.82	.74
5	.69	.32	.75	.30	.06	.47	.96	.80	.76	.93	.82	.74
6	133.66	134.51	136.55	136.17	135.02	137.66	143.10	141.76	134.71	133.93	133.81	133.73
7	.64	.65	.41	.06	134.96	.79	.23	.69	.65	.93	.81	.73
8	.60	.52	.35	135.96	.90	.84	.33	.50	.60	.93	.81	.73
9	.60	.54	.37	.88	.82	.80	.42	.29	.55	.92	.80	.73
10	.60	.65	.62	.79	.75	.70	.46	.04	.50	.92	.80	.72
11	133.59	134.65	136.64	135.67	134.66	137.62	143.48	140.75	134.45	133.92	133.80	133.72
12	.59	.48	.54	.40	.60	.63	.48	.48	.39	.91	.79	.72
13	.59	.37	.35	.16	.55	138.03	.43	.27	.34	.91	.79	.72
14	.59	.33	.13	134.99	.52	.72	.39	.04	.29	.91	.79	.71
15	.58	.28	135.98	.88	.57	139.36	.33	139.71	.26	.91	.79	.71
16	133.58	134.26	135.96	134.76	134.62	139.79	143.26	139.31	134.23	133.90	133.78	133.71
17	.58	.29	136.06	.56	.76	140.13	.14	138.86	.19	.90	.78	.71
18	.58	.34	.12	.31	.97	.50	142.96	.33	.17	.89	.78	.71
19	.57	.43	.14	.25	135.37	.61	.75	137.86	.15	.89	.77	.70
20	.57	.57	.09	.23	.66	141.09	.53	.38	.12	.89	.77	.70
21	133.57	134.63	135.94	134.22	135.76	141.32	142.38	136.88	134.10	133.89	133.77	133.70
22	.57	.60	.77	.22	.79	.49	.20	.37	.08	.88	.77	.70
23	.57	.55	.60	.22	.78	.63	.09	135.90	.06	.88	.76	.69
24	.57	.50	.43	.22	.77	.72	.00	.50	.04	.88	.76	.69
25	.56	.45	.33	.26	.84	.85	.01	.43	.02	.87	.76	.69
26	133.56	134.43	135.23	134.38	136.12	141.96	142.04	135.35	134.00	133.87	133.76	133.69
27	.56	.43	.14	.61	.48	142.04	.05	.24	133.98	.86	.76	.68
28	.56	.57	.05	.84	.66	.14	.04	.17	.97	.86	.75	.68
29	.58	135.36	.01	135.12	.79	.23	.05	.12	.96	.85	.84	.68
30	.62	136.58	.10	.20	.73	.36	.05	.04	.95	.84	.84	.67
31		.96		.27	.59		.05		.94	.84		.67
Mean	133.61	134.56	136.10	135.15	135.38	139.56	142.74	138.86	134.32	133.90	133.79	133.71
Max.	133.74	136.96	137.18	136.43	136.12	142.36	143.48	142.02	134.98	133.94	133.84	133.75
Min.	133.56	133.67	135.01	134.22	134.52	136.66	142.00	135.04	133.94	133.84	133.75	133.67

WATER YEAR 1961 : Max. 143.48 m. Min. 133.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.20	4.10	187	96	76	155	725	656	60	12	9.20	6.50
2	5.90	5.60	189	134	74	173	746	649	57	12	8.90	6.20
3	5.60	7.70	181	141	69	185	761	638	54	12	8.90	6.20
4	5.00	18	169	138	66	196	777	632	51	12	8.60	6.20
5	4.70	28	161	133	64	208	798	625	49	12	8.60	6.20
6	3.80	36	148	125	62	220	820	619	46	12	8.30	5.90
7	3.20	43	140	119	59	229	841	610	43	12	8.30	5.90
8	2.00	37	136	113	56	232	857	585	41	12	8.30	5.90
9	2.00	38	137	108	52	229	871	559	38	12	8.00	5.90
10	2.00	43	153	102	48	223	878	259	36	12	8.00	5.60
11	1.80	43	154	96	44	218	818	494	34	12	8.00	5.60
12	1.80	45	148	81	41	218	881	464	31	11	7.70	5.60
13	1.80	30	136	69	38	246	873	443	29	11	7.70	5.60
14	1.80	28	123	60	37	300	866	420	27	11	7.70	5.30
15	1.60	26	114	55	39	354	857	387	25	11	7.70	5.30
16	1.60	25	113	49	42	395	846	350	24	11	7.40	5.30
17	1.60	27	119	39	49	429	826	312	22	11	7.40	5.30
18	1.60	29	122	27	59	466	798	268	21	11	7.40	5.30
19	1.40	33	123	25	79	501	764	234	20	11	7.10	5.00
20	1.40	39	120	24	95	535	731	202	19	11	7.10	5.00
21	1.40	42	111	23	101	562	708	170	18	11	7.10	5.00
22	1.40	41	101	23	102	583	681	137	17	10	7.10	5.00
23	1.40	38	92	23	102	602	666	109	16	10	6.80	4.70
24	1.40	36	83	23	101	614	653	86	16	10	6.80	4.70
25	1.20	34	77	25	105	635	654	83	15	10	6.80	4.70
26	1.20	33	72	31	122	647	659	78	14	10	6.80	4.70
27	1.20	33	68	41	144	659	660	73	13	9.80	6.80	4.40
28	1.20	39	63	53	155	673	659	69	13	9.80	6.50	4.40
29	1.60	79	61	67	164	686	660	67	13	9.50	6.50	4.40
30	2.60	150	66	71	160	705	660	63	12	9.50	6.50	4.40
31		175		74	151		660	63	12	9.20		4.10
Total	71.40	1,285.40	3,667	2,188	2,556	12,078	23,717	10,611	886	339.80	215.00	164.00
Mean	2.38	41.5	122	70.5	82.4	403	765	354	28.5	11	7.68	5.29
Max.	6.20	175	189	141	164	705	881	656	60	12	9.20	6.50
Min.	1.20	4.10	61	23	37	155	653	63	12	9.20	6.50	4.10
Runoff - mcm.	6.169	111.058	316.829	189.043	220.838	1,043.539	2,049.149	916.790	76.550	29.359	18.576	14.170

WATER YEAR 1961 : Max. 881 Min. 1.20 Mean 158 Annual Runoff 4,992.071 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	06.00	143.48	881				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1962
CHEE RIVER BASIN**

Chee River at Tha Khon Yang, Maha Sarakham (E.8A)

Location: Lat 16° - 13' - 51" N, Long 103° - 16' - 29" E, on right bank at the bridge on highway Maha Sarakham - Kalasin, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,817 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.21 m. (M.S.L.)

Bench Mark: B.M. - H.S. No.6

Location: On the right abutment of bridge.
Elevation: +147.910 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: 1955 to date.

Rating Operation:

Period of Rating: 1955 - 57, 1964 to date.

Rated by Float: -

Rated by Current Meter: 1955 - 57, 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

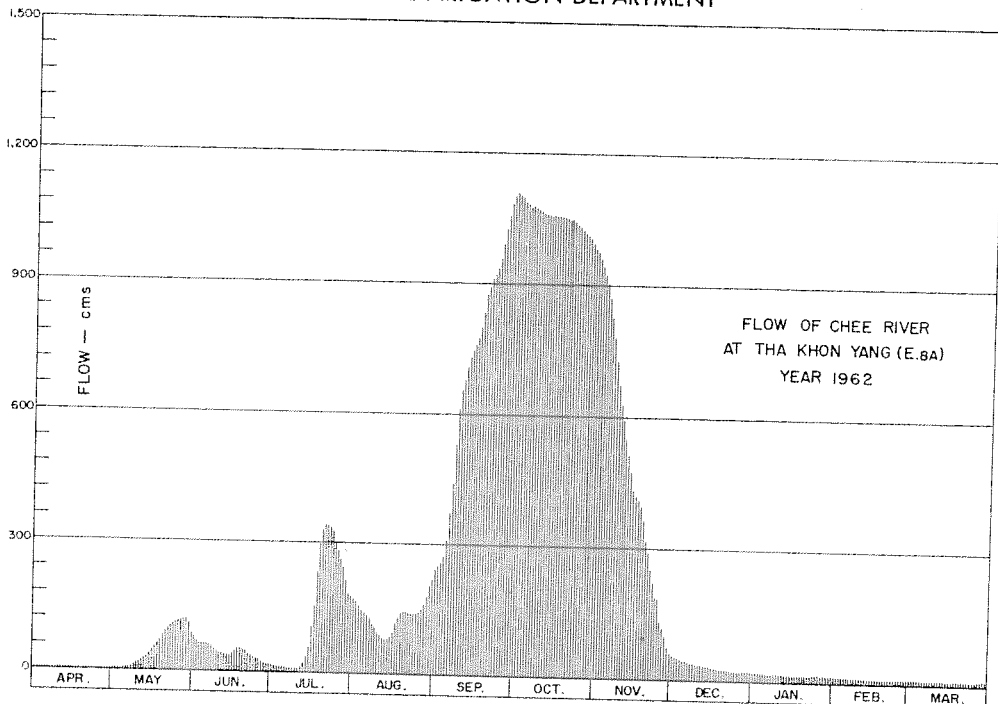
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1955 - 57. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.67	133.70	135.36	134.11	136.94	138.00	144.74	143.96	134.90	134.14	134.00	133.84
2	.67	.71	.18	.08	.81	.09	.70	.85	.81	.13	133.99	.85
3	.66	.71	.11	.05	.67	.21	.65	.74	.77	.13	.99	.83
4	.66	.72	.08	.03	.55	.40	.63	.61	.73	.12	.97	.83
5	.66	.73	.09	.02	.42	.86	.60	.40	.69	.12	.96	.82
6	133.66	133.74	135.06	133.99	136.33	136.43	144.61	143.11	134.65	134.11	133.96	133.82
7	.65	.76	.00	.95	.21	140.12	.58	142.83	.61	.11	.95	.82
8	.65	.86	134.96	.93	.08	141.03	.57	.50	.57	.11	.95	.82
9	.65	.98	.84	.92	135.88	.72	.54	.16	.55	.10	.94	.81
10	.64	134.11	.73	.91	.67	142.04	.52	141.82	.51	.10	.94	.81
11	133.64	134.14	134.68	133.94	135.53	142.20	144.51	141.53	134.49	134.09	133.93	133.81
12	.64	.23	.63	134.05	.43	.40	.50	.18	.47	.08	.92	.80
13	.63	.33	.61	.23	.36	.57	.49	140.89	.44	.08	.92	.80
14	.63	.45	.59	.41	.36	.65	.50	.54	.41	.08	.91	.80
15	.63	.61	.58	.96	.47	.72	.49	.16	.38	.07	.91	.79
16	133.62	134.75	134.63	135.68	135.73	142.77	144.49	140.00	134.35	134.07	133.90	133.79
17	.62	.91	.74	136.59	136.04	.99	.49	139.98	.35	.07	.90	.78
18	.62	135.06	.86	137.59	.30	143.26	.47	.81	.30	.06	.89	.78
19	.61	.17	.84	138.75	.48	.44	.46	.46	.28	.06	.89	.78
20	.61	.37	.79	139.09	.50	.57	.45	.06	.26	.06	.88	.78
21	133.61	135.57	134.77	139.22	136.50	143.69	144.45	138.60	134.25	134.05	133.87	133.77
22	.60	.73	.71	.18	.47	.74	.42	.11	.24	.05	.87	.77
23	.60	.84	.60	.11	.42	.83	.39	137.62	.23	.04	.86	.77
24	.59	.92	.48	138.99	.40	.97	.36	.13	.22	.04	.86	.76
25	.59	.98	.39	.72	.43	144.18	.33	136.66	.21	.04	.85	.76
26	133.59	136.02	134.34	138.47	136.48	144.35	144.28	136.26	134.19	134.03	133.85	133.75
27	.58	.06	.27	.21	.59	.51	.25	.00	.18	.03	.85	.75
28	.58	.08	.20	.01	.76	.65	.20	135.71	.16	.02	.84	.75
29	.61	.08	.16	137.56	137.05	.73	.14	.37	.15	.02	.77	.77
30	.62	135.93	.12	.13	.46	.77	.10	.05	.15	.01	.81	.81
31		.56	.03	.03	.76		.03		.14	.01	.85	.85
Mean	133.63	134.83	134.71	136.16	136.32	142.13	144.45	140.00	134.41	134.07	133.91	133.79
Max.	133.67	136.08	135.36	139.22	137.76	144.77	144.74	143.96	134.90	134.14	134.00	133.85
Min.	133.58	133.70	134.12	133.91	135.36	136.43	144.03	135.03	134.14	134.01	133.84	133.75

WATER YEAR 1962 : Max. 144.77 m. Min. 133.58 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.10	5.00	79	18	174	245	1,103	960	56	20	14	9.20
2	4.10	5.30	70	17	165	250	1,095	942	51	19	14	8.90
3	3.80	5.30	66	16	156	259	1,086	923	49	19	14	8.90
4	3.80	5.60	65	15	148	274	1,082	902	47	19	13	8.90
5	3.80	5.90	65	15	140	314	1,076	868	45	19	13	8.60
6	3.80	6.20	64	14	135	361	1,078	822	43	18	13	8.60
7	3.50	6.80	61	12	128	428	1,072	777	41	18	12	8.60
8	3.50	9.80	59	12	126	528	1,070	726	39	18	12	8.60
9	3.50	13	53	12	108	614	1,065	675	37	18	12	8.50
10	3.20	18	47	11	96	659	1,051	628	36	18	12	8.50
11	3.20	20	45	12	88	681	1,059	589	35	18	12	8.50
12	3.20	24	42	16	83	711	1,057	546	35	17	12	8.50
13	2.90	28	41	24	79	737	1,055	511	33	17	12	8.00
14	2.90	34	40	32	79	749	1,057	470	32	17	11	8.00
15	2.90	41	40	59	85	759	1,055	432	31	17	11	7.70
16	2.60	48	42	96	99	767	1,055	416	29	17	11	7.70
17	2.60	56	48	151	117	802	1,055	414	29	17	11	7.40
18	2.60	64	54	216	133	846	1,052	397	27	16	11	7.40
19	2.30	69	53	302	144	874	1,049	363	26	16	11	7.40
20	2.30	79	50	331	145	895	1,048	329	25	16	10	7.40
21	2.30	90	49	342	145	914	1,048	290	25	16	10	7.10
22	2.00	99	46	339	143	923	1,043	252	24	16	10	7.10
23	2.00	105	41	333	140	938	1,037	218	24	16	10	7.10
24	1.80	110	35	323	139	962	1,032	186	23	16	9.80	7.10
25	1.80	114	31	300	141	999	1,026	155	23	16	9.50	6.80
26	1.80	116	29	280	144	1,030	1,017	131	22	15	9.50	6.50
27	1.60	119	26	259	151	1,059	1,012	115	22	15	9.50	6.50
28	1.60	120	22	244	162	1,086	1,003	98	21	15	9.20	6.50
29	2.30	120	21	214	181	1,101	992	79	20	15	9.20	7.10
30	2.60	111	19	186	207	1,108	985	62	20	14	9.20	8.30
31		90		179	227		972		20	14		9.50
Total	84.40	1,737.90	1,405	4,380	4,201	21,866	32,497	14,276	990	522	318.30	243.50
Mean	2.61	56.1	46.7	141	135	729	1,048	476	31.9	16.8	11.4	7.85
Max.	4.10	120	79	342	227	1,108	1,103	960	56	20	14	9.50
Min.	1.60	5.00	19	11	79	245	972	62	20	14	9.20	6.50
Runoff - ac%	7.292	150.154	121.219	378.432	362.966	1,869.222	2,807.741	1,233.446	85.536	45.101	27.501	21.038

WATER YEAR 1962 : Max. 1,108 Min. 1.60 Mean 226 Annual Runoff 7,129.650 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 30	06.00	144.77	1,108				

HYDROLOGY SECTION, SURVEY DIVISION
 ROYAL IRRIGATION DEPARTMENT

 WATER YEAR 1960
 CHEE RIVER BASIN

Chee River at Tha Phra, Khon Kaen (E.16A)

Location: Lat 16° - 21' - 14" N, Long 102° - 48' - 09" E, on left bank 400 meters upstream from the bridge on highway Khon Kaen - Maha Sarakham, Tambon Don Han, Amphoe Muang, Khon Kaen.

Drainage Area: 13,171 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +142.936 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.

Elevation: +154.989 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1963 to date.

Rated by Float: -

Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

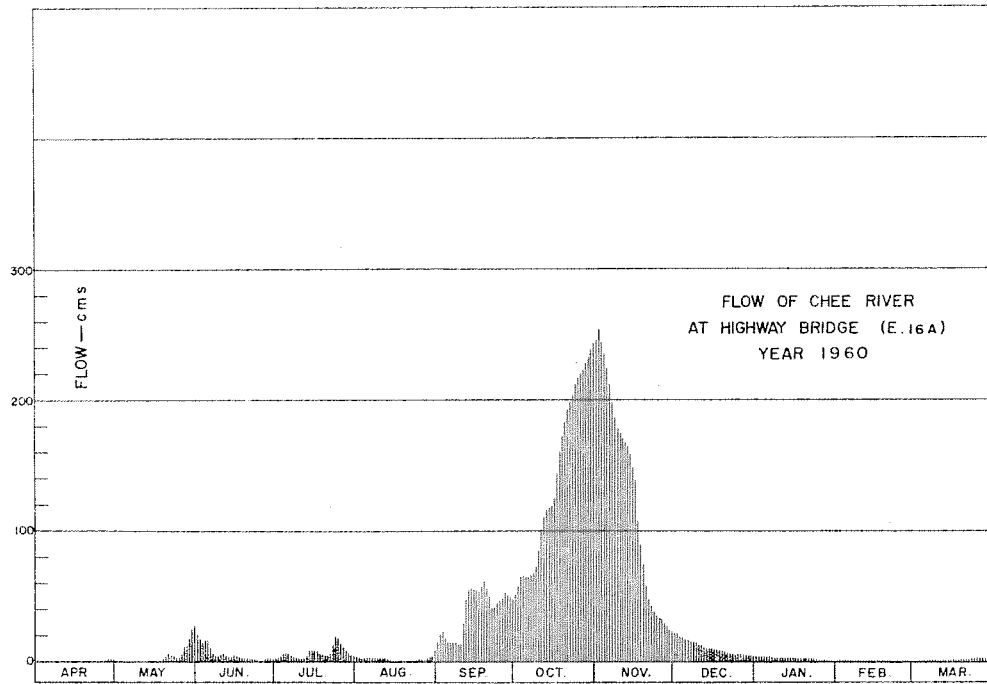
General Description: Records good. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.92	143.11	144.24	143.27	143.37	143.96	145.22	149.97	144.30	143.41	143.10	142.99
2	.91	.05	.07	.33	.33	144.19	.42	150.06	.24	.39	.10	.98
3	.91	.02	143.97	.40	.29	.27	.64	149.91	.18	.38	.09	.98
4	.90	142.95	144.06	.52	.27	.09	.66	.76	.13	.37	.09	.97
5	.90	.92	.03	.56	.30	143.94	.65	.56	.08	.36	.08	.96
6	142.89	142.91	143.78	143.52	143.31	143.95	145.65	149.30	144.05	143.34	143.07	142.96
7	.88	.92	.60	.47	.30	.96	.66	148.99	.01	.34	.07	143.01
8	.88	.92	.49	.39	.29	.94	.71	.72	143.99	.33	.06	.00
9	.89	.90	.43	.29	.28	.90	.87	.56	.95	.32	.06	142.99
10	.89	.89	.52	.24	.25	.89	146.23	.47	.89	.31	.06	.98
11	142.89	142.89	143.54	143.21	143.20	144.56	146.65	148.38	143.85	143.31	143.05	142.98
12	.89	.92	.44	.26	.16	145.12	.91	.33	.83	.28	.05	.97
13	.88	.97	.37	.48	.13	.35	147.03	.24	.80	.28	.04	.98
14	.88	.99	.37	.68	.12	.36	.07	.10	.78	.27	.04	.98
15	.88	.99	.38	.72	.09	.36	.09	147.82	.76	.26	.04	.98
16	142.87	143.00	143.39	143.71	143.07	145.32	147.24	147.40	143.74	143.25	143.03	142.98
17	.87	.03	.37	.62	.05	.29	.73	146.83	.71	.24	.01	.97
18	.87	.07	.33	.52	.02	.42	148.12	.32	.68	.23	.01	.96
19	.87	.33	.29	.47	.02	.55	.44	145.92	.64	.21	.01	.98
20	.86	.43	.25	.43	.10	.45	.74	.45	.62	.20	.02	.99
21	142.86	143.50	143.20	143.45	143.08	145.19	148.88	145.12	143.60	143.18	143.02	143.03
22	.86	.45	.19	.56	.09	144.92	149.02	144.99	.58	.16	.01	.11
23	.87	.36	.15	.85	.12	.93	.15	.86	.55	.15	.01	.19
24	.89	.30	.13	144.15	.11	145.04	.29	.76	.49	.13	.01	.19
25	.92	.30	.11	.11	.13	.10	.42	.68	.52	.12	.00	.17
26	143.00	143.55	143.10	143.96	143.13	145.17	149.50	144.65	143.52	143.12	142.99	143.16
27	.07	.81	.17	.83	.12	.28	.55	.54	.48	.11	.99	.15
28	.17	.86	.30	.68	.20	.26	.64	.47	.46	.11	143.00	.13
29	.20	144.10	.25	.58	.31	.18	.74	.38	.44	.10		.12
30	.15	.41	.23	.46	.44	.14	.83	.34	.43	.09		.10
31		.48		.41	.72		.91		.42	.09		.08
Mean	142.92	143.27	143.46	143.55	143.21	144.80	147.60	147.10	143.76	143.24	143.04	143.03
Max.	143.20	144.48	144.24	144.15	143.72	145.55	149.91	150.06	144.30	143.41	143.10	143.19
Min.	142.86	142.89	143.10	143.21	143.02	143.89	145.22	144.34	143.42	143.09	142.99	142.96

WATER YEAR 1960 : Max. 150.06 m. Min. 142.86 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	1.88	22	3.30	4.37	15	51	247	23	4.84	1.80	1.15
2	0.75	1.50	18	3.93	3.93	21	58	253	22	4.59	1.80	1.10
3	0.75	1.32	15	4.70	3.50	23	65	244	20	4.48	1.74	1.10
4	0.70	0.95	17	6.42	3.30	18	66	235	19	4.37	1.74	1.05
5	0.70	0.80	17	7.06	3.60	15	65	224	18	4.26	1.68	1.00
6	0.66	0.75	11	6.42	3.71	15	65	212	17	4.04	1.62	1.00
7	0.62	0.80	7.70	5.68	3.60	15	66	198	16	4.04	1.62	1.26
8	0.62	0.80	5.96	4.59	3.50	15	67	186	16	3.93	1.56	1.20
9	0.66	0.70	5.12	3.50	3.40	14	73	179	15	3.82	1.56	1.15
10	0.66	0.66	6.42	3.00	3.10	13	86	175	13	3.71	1.56	1.10
11	0.66	0.66	6.74	2.70	2.60	30	101	171	13	3.71	1.50	1.10
12	0.66	0.80	5.26	3.20	2.28	48	111	168	12	3.40	1.50	1.05
13	0.62	1.05	4.37	5.82	2.04	55	116	165	11	3.40	1.44	1.10
14	0.62	1.15	4.37	9.14	1.96	56	118	159	11	3.30	1.44	1.10
15	0.62	1.15	4.48	9.90	1.74	56	119	148	11	3.20	1.44	1.10
16	0.58	1.20	4.59	9.70	1.62	54	125	141	10	3.10	1.38	1.10
17	0.58	1.38	4.37	8.06	1.50	53	144	108	9.70	3.00	1.26	1.05
18	0.58	1.62	3.93	6.42	1.32	58	160	89	9.14	2.90	1.26	1.00
19	0.58	3.93	3.50	5.68	1.32	62	173	75	8.42	2.70	1.26	1.10
20	0.54	5.12	3.10	5.12	1.80	58	187	58	8.06	2.60	1.32	1.15
21	0.54	6.10	2.60	5.40	1.68	50	193	48	7.70	2.44	1.32	1.38
22	0.54	5.12	2.52	7.06	1.74	41	199	43	7.38	2.28	1.26	1.88
23	0.58	4.26	2.20	13	1.96	42	205	39	6.90	2.20	1.26	2.52
24	0.66	3.60	2.04	20	1.88	45	212	36	5.96	2.04	1.26	2.52
25	0.80	3.60	1.88	19	2.04	47	217	34	6.42	1.96	1.20	2.36
26	1.20	6.90	1.80	15	2.04	49	221	33	6.42	1.96	1.15	2.28
27	1.62	12	2.36	12	1.96	53	223	30	5.82	1.88	1.15	2.20
28	2.36	13	3.60	9.14	2.60	52	228	28	5.54	1.88	1.20	2.04
29	2.60	18	3.10	7.38	3.71	50	233	25	5.26	1.80		1.96
30	2.20	26	2.90	5.54	5.26	48	239	24	5.12	1.74		1.80
31		28		4.84	9.90		244		4.98	1.74		1.68
Total	26.06	154.80	194.91	232.70	88.96	1,171	4,430	3,775	349.82	95.31	40.28	44.58
Mean	0.87	4.99	6.50	7.51	2.87	39	143	126	11.3	3.07	1.44	1.44
Max.	2.60	28	22	20	9.90	62	244	253	23	4.84	1.80	2.52
Min.	0.54	0.66	1.80	2.70	1.32	13	51	24	4.98	1.74	1.15	1.00
Runoff - mcm.	2.251	13.375	16.840	20.105	7.686	101.174	382.752	326.160	30.224	8.235	3.480	3.852

WATER YEAR 1960 : Max. 253 Min. 0.54 Mean 29.0 Annual Runoff 915.271 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 2	12.00	150.09	254				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
CHEE RIVER BASIN**

Chee River at Tha Phra, Khon Kaen (E.16A)

Location: Lat 16° - 21' - 14" N, Long 102° - 48' - 09" E, on left bank 400 meters upstream from the bridge on highway Khon Kaen - Maha Sarakham, Tambon Don Han, Amphoe Muang, Khon Kaen.

Drainage Area: 13,171 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +142.956 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.

Elevation: +154.989 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1963 to date.

Rated by Float: -

Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

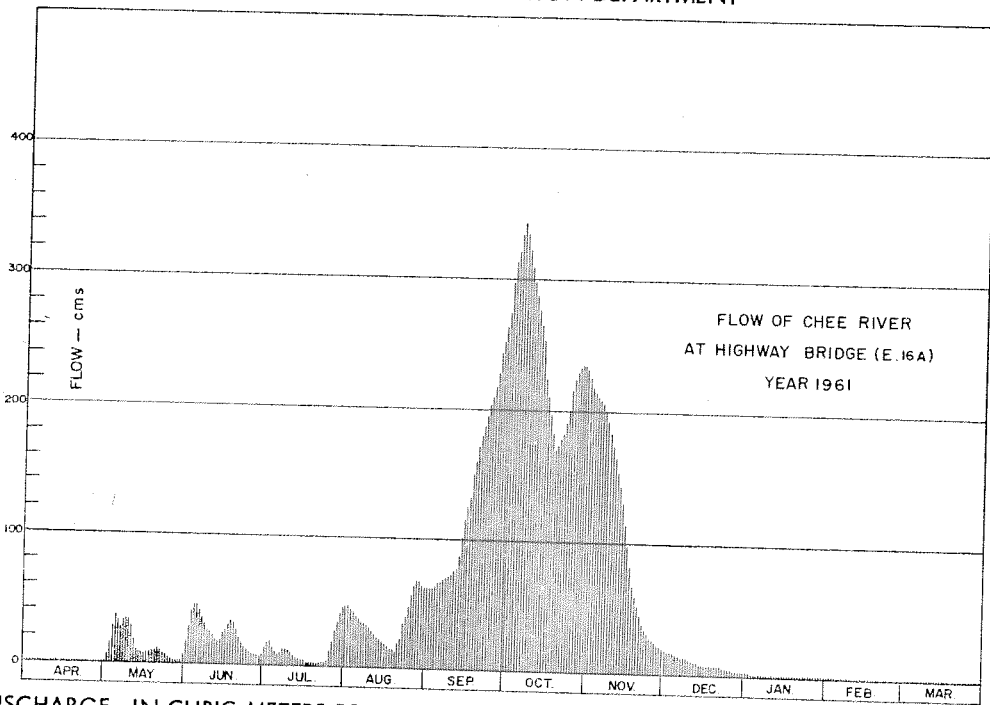
General Description: Records good. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	143.05	143.21	144.16	144.04	145.20	145.58	150.38	149.61	144.16	143.40	143.14	142.99
2	.03	.69	.57	.16	.15	.59	.65	.46	.14	.37	.14	.99
3	.01	144.28	.97	.20	.07	.62	.81	.36	.11	.33	.13	.98
4	.00	.61	145.12	.01	.00	.64	.88	.27	.07	.32	.13	.98
5	142.99	.84	.14	143.82	144.92	.72	151.00	.73	.05	.32	.12	.98
6	142.96	144.67	144.98	143.75	144.86	145.76	151.07	149.37	144.01	143.31	143.12	142.97
7	.94	.48	.82	.85	.80	.82	.00	.07	143.97	.31	.11	.97
8	.93	.73	.64	.95	.75	.85	150.89	148.91	.94	.31	.11	143.00
9	.92	.75	.51	.95	.68	.88	.76	.70	.92	.30	.10	.00
10	.91	.73	.43	.91	.62	.95	.65	.48	.87	.30	.09	142.99
11	142.91	144.56	144.32	143.81	144.53	146.00	150.53	148.24	143.84	143.30	143.08	142.99
12	.90	.15	.18	.75	.45	.05	.40	.01	.81	.29	.08	.98
13	.90	143.84	.14	.67	.38	.32	.24	147.72	.78	.29	.07	.98
14	.90	.75	.22	.59	.31	.71	.08	.40	.75	.29	.06	.97
15	.89	.74	.39	.52	.23	147.08	149.56	.00	.72	.29	.05	.97
16	142.89	143.74	144.47	143.51	144.16	147.28	149.28	146.57	143.70	143.28	143.04	142.96
17	.90	.76	.68	.47	.60	.45	.00	.14	.68	.28	.04	.96
18	.88	.80	.75	.46	.05	.91	148.66	145.74	.66	.28	.03	.96
19	.88	.82	.70	.43	143.99	148.16	.39	.50	.65	.28	.02	.95
20	.87	.88	.46	.40	.91	.46	.49	.28	.65	.27	.02	.95
21	142.87	143.93	144.28	143.38	144.26	148.64	148.58	145.08	143.64	143.25	143.02	142.94
22	.85	.83	.14	.49	.38	.81	.68	144.82	.63	.24	.01	.94
23	.86	.72	143.99	.45	.76	149.00	.87	.71	.59	.23	.01	.95
24	.85	.65	.88	.43	.96	.15	149.08	.60	.56	.22	.01	.95
25	.84	.59	.82	.59	145.20	.29	.43	.52	.53	.21	.01	.96
26	142.97	143.43	143.78	143.96	145.45	149.45	149.61	144.43	143.50	143.20	143.01	142.96
27	143.01	.39	.75	144.25	.63	.67	.70	.40	.47	.19	.00	.95
28	.00	.37	.71	.55	.78	.92	.75	.34	.45	.18	.00	.97
29	142.99	.54	.66	.82	.73	150.07	.77	.28	.44	.17	.00	.97
30	.98	.35	.83	.98	.65	.24	.77	.21	.43	.16	.00	.96
31		.68		145.15	.59		.72		.41	.14		.95
Mean	142.93	143.94	143.35	143.88	144.81	147.43	149.86	146.81	143.75	143.27	143.06	142.97
Max.	143.05	144.84	145.14	145.15	145.78	150.24	151.07	149.61	144.16	143.40	143.14	143.00
Min.	142.84	143.21	143.66	143.38	143.91	145.58	148.39	144.21	143.41	143.14	143.00	142.94

WATER YEAR 1961 : Max. 151.07 m. Min. 142.84 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.50	2.70	20	17	50	63	275	226	20	4.70	2.12	1.15
2	1.38	9.32	31	20	49	63	298	219	19	4.37	2.12	1.15
3	1.26	23	43	21	46	64	314	215	19	3.93	2.04	1.10
4	1.20	32	48	16	44	65	322	211	18	3.82	2.04	1.10
5	1.15	39	48	12	41	68	335	209	17	3.82	1.96	1.10
6	1.00	34	43	10	39	69	343	206	16	3.71	1.96	1.05
7	0.90	28	38	13	37	71	335	202	15	3.71	1.88	1.05
8	0.85	35	33	15	36	72	323	194	15	3.71	1.88	1.20
9	0.80	36	29	15	34	73	309	185	14	3.60	1.80	1.20
10	0.75	35	27	14	32	76	298	175	13	3.60	1.74	1.15
11	0.75	30	24	12	30	77	288	165	12	3.60	1.68	1.15
12	0.70	20	20	10	27	79	277	155	12	3.50	1.68	1.10
13	0.70	12	19	8.96	25	89	265	144	11	3.50	1.62	1.10
14	0.70	10	21	7.54	24	103	254	131	10	3.50	1.56	1.05
15	0.66	10	26	6.42	22	118	224	115	9.90	3.50	1.50	1.05
16	0.66	10	28	6.26	20	126	211	98	9.50	3.40	1.44	1.00
17	0.70	11	34	5.68	18	133	198	82	9.14	3.40	1.44	1.00
18	0.62	11	36	5.54	17	151	185	68	8.78	3.40	1.38	1.00
19	0.62	12	34	5.12	16	161	171	60	8.60	3.40	1.32	0.95
20	0.58	13	28	4.70	14	174	176	53	8.60	3.30	1.32	0.95
21	0.58	14	23	4.48	22	182	180	46	8.42	3.10	1.32	0.90
22	0.50	12	19	5.96	25	190	184	38	8.24	3.00	1.26	0.90
23	0.54	9.90	16	5.40	36	198	193	35	7.54	2.90	1.26	0.95
24	0.50	8.60	13	5.12	42	205	202	32	7.06	2.80	1.26	0.95
25	0.46	7.54	12	7.54	50	212	218	29	6.58	2.70	1.26	1.00
26	1.05	5.12	11	15	58	219	226	27	6.10	2.60	1.26	1.00
27	1.26	4.59	10	22	65	229	231	26	5.68	2.52	1.20	0.95
28	1.20	4.37	9.70	30	70	244	234	24	5.40	2.44	1.20	0.95
29	1.15	4.04	8.78	38	68	253	235	23	5.26	2.36	1.20	1.05
30	1.10	4.15	12	43	65	265	235	21	5.12	2.28		1.00
31		9.14		49	63		232		4.84	2.21		0.95
Total	25.82	496.47	764.46	450.72	1,185	4,092	7,769	3,414	335.76	102.29	44.50	32.30
Mean	0.86	16	25.5	14.5	38.2	136	251	114	10.8	3.30	1.59	1.04
Max.	1.50	39	48	49	70	265	343	226	20	4.70	2.12	1.20
Min.	0.46	2.70	8.78	4.48	14	63	171	21	4.84	2.12	1.20	0.90
Runoff - BCM.	2.231	42.895	66.051	38.942	102.384	353.549	671.242	294.970	29.010	8.838	3.845	2.791

WATER YEAR 1961 : Max. 343 Min. 0.46 Mean 51.3 Annual Runoff 1,616.746 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	06.00	151.07	343				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
CHEE RIVER BASIN

Chee River at Tha Phra, Khon Kaen (E.16A)

Location: Lat 16° - 21' - 14" N, Long 102° - 48' - 09" E, on left bank 400 meters upstream from the bridge on highway Khon Kaen - Maha Sarakham, Tambon Don Han, Amphoe Muang, Khon Kaen.

Drainage Area: 13,171 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +142.936 m. (M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.
Elevation: +154.989 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1963 to date.

Rated by Float: -

Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed and is included for flow computation.

General Description: Records good. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions for irrigation above gage site.

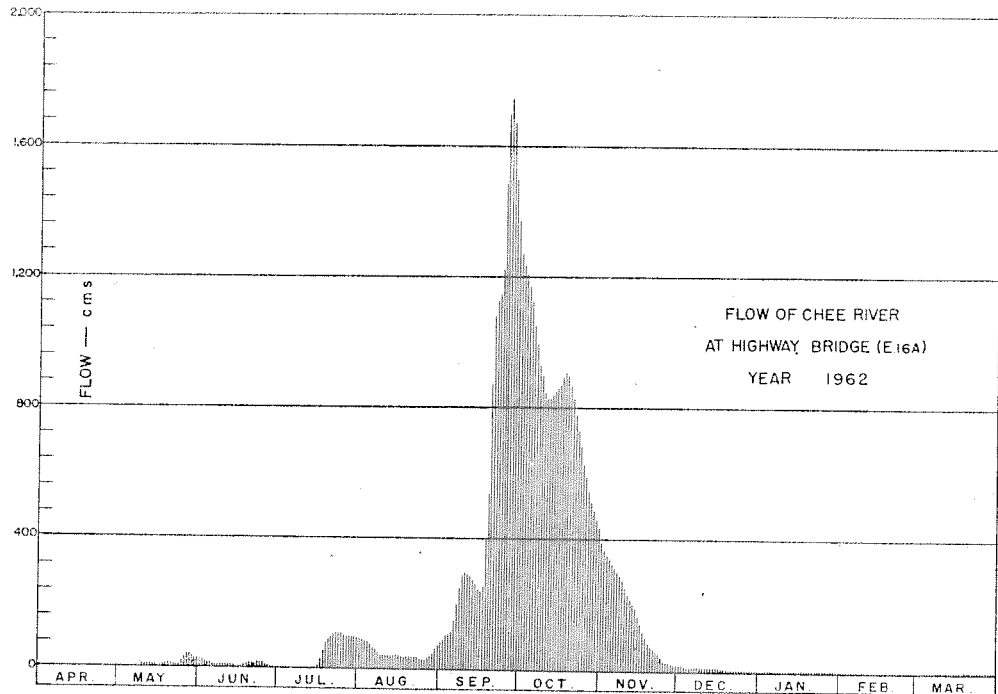
Remarks: Gage height record for Dec. 25 - Jan. 16, based on correlation with station at E.16, which is 1 kilometer downstream.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.95	143.06	144.46	143.34	146.43	146.26	153.66	151.40	144.08	143.48	143.32	143.19
2	.94	.01	.44	.34	.34	.47	.62	.27	.03	.48	.32	.14
3	.93	.02	.22	.28	.25	.76	.59	.15	143.96	.48	.32	.16
4	.93	.07	.07	.24	.13	.85	.53	.03	.89	.47	.31	.15
5	.92	.12	143.92	.18	145.93	147.07	.46	150.89	.85	.47	.31	.14
6	142.92	143.11	143.79	143.17	145.72	147.95	153.39	150.79	143.82	143.47	143.15	143.15
7	.91	.09	.74	.15	.43	149.06	.26	.66	.79	.47	.15	.15
8	.91	.15	.75	.13	.18	.99	.14	.53	.78	.46	.16	.16
9	.90	.34	.82	.09	.04	150.53	.08	.37	.77	.46	.14	.14
10	.90	.68	.84	.07	.03	.63	152.96	.08	.75	.46	.13	.13
11	142.90	143.81	143.81	143.04	145.01	150.60	152.92	149.70	143.73	143.45	143.13	143.13
12	.89	.86	.75	.14	144.91	.52	.92	.38	.72	.45	.13	.13
13	.89	.81	.67	.19	.90	.36	.95	.06	.70	.45	.15	.15
14	.88	.75	.63	.33	.96	.17	.99	148.79	.66	.45	.14	.14
15	.87	.64	.57	.57	145.03	149.97	.99	.16	.64	.44	.13	.13
16	142.87	143.50	143.55	143.74	144.96	149.81	153.01	147.67	143.63	143.44	143.14	143.14
17	.86	.33	.62	144.46	.87	150.15	.06	.07	.62	.44	.15	.15
18	.85	.72	.74	145.37	.81	151.51	.09	146.57	.60	.43	.19	.19
19	.85	.96	.92	146.08	.81	152.15	.07	.16	.58	.42	.13	.13
20	.88	.96	144.07	.47	.84	153.03	.01	145.87	.57	.41	.14	.14
21	143.25	143.89	144.08	146.67	144.85	153.39	152.92	145.64	143.64	143.56	143.40	143.15
22	.31	.75	143.99	.76	.88	.47	.80	.37	.54	.39	.14	.14
23	.23	.73	.95	.79	.71	.50	.69	.29	.53	.38	.23	.23
24	.16	.76	144.03	.78	.61	.61	.56	.01	.51	.37	.23	.23
25	.11	144.17	.07	.77	.58	.93	.42	144.59	.51	.36	.22	.22
26	143.05	144.64	143.99	146.70	144.58	154.20	152.30	144.41	143.50	143.35	143.24	143.24
27	.02	.91	.86	.64	.67	.26	.18	.31	.50	.35	.22	.22
28	.01	.91	.70	.60	.96	.17	.05	.22	.49	.34	.20	.20
29	.11	.78	.57	.57	145.31	153.98	151.94	.17	.49	.34	.18	.18
30	.17	.61	.45	.54	.64	.79	.83	.14	.49	.33	.16	.16
31		.47		.49	.89		.72		.49	.32	.15	.15
Mean	142.98	143.76	144.03	144.76	145.20	150.94	152.87	147.79	143.67	143.42	143.16	143.16
Max.	143.31	144.91	144.46	146.79	146.43	154.26	153.66	151.40	144.08	143.48	143.32	143.24
Min.	142.85	143.01	143.45	143.04	144.58	146.26	151.72	144.14	143.49	143.32	143.15	143.13

WATER YEAR 1962 : Max. 154.26 m. Min. 142.85 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.95	1.56	28	4.04	93	87	1,268	384	18	5.82	3.82	2.52
2	0.90	1.26	27	4.04	89	94	1,236	367	17	5.82	3.82	2.12
3	0.85	1.32	21	3.40	86	105	1,213	352	15	5.82	3.82	2.28
4	0.85	1.62	18	3.00	82	109	1,170	338	13	5.68	3.71	2.20
5	0.80	1.96	14	2.44	74	118	1,121	323	13	5.68	3.71	2.12
6	0.80	1.88	11	2.36	68	153	1,074	312	12	5.68	3.71	2.20
7	0.75	1.74	10	2.20	58	201	994	299	11	5.68	3.71	2.20
8	0.75	2.04	10	2.04	50	248	930	288	11	5.54	3.60	2.28
9	0.70	4.04	12	1.74	45	288	900	275	11	5.54	3.60	2.12
10	0.70	9.14	12	1.62	45	297	845	254	10	5.54	3.60	2.04
11	0.70	12	12	1.44	44	294	828	231	10	5.40	3.50	2.04
12	0.66	13	10	2.12	41	287	828	216	9.90	5.40	3.50	2.04
13	0.66	12	8.96	2.52	41	274	840	201	9.50	5.40	3.50	2.20
14	0.62	10	8.24	3.93	42	260	858	189	8.78	5.40	3.40	2.12
15	0.58	3.42	7.22	7.22	45	247	858	161	8.42	5.26	3.40	2.04
16	0.58	6.10	6.90	10	42	238	867	142	8.24	5.26	3.30	2.12
17	0.54	3.93	8.06	28	40	258	891	118	8.06	5.26	3.30	2.20
18	0.50	9.90	10	56	38	401	905	98	7.70	5.15	3.20	2.52
19	0.50	15	14	80	38	541	896	83	7.38	4.98	3.20	2.04
20	0.62	15	18	94	39	876	867	73	7.22	4.84	3.10	2.12
21	3.10	13	18	102	39	1,074	828	65	7.06	4.70	3.10	2.20
22	3.71	10	16	105	40	1,128	778	56	6.74	4.59	3.00	2.12
23	2.90	10	15	107	35	1,148	735	53	6.58	4.48	3.00	2.90
24	2.28	11	17	106	32	1,228	684	44	6.26	4.37	2.90	2.90
25	1.88	20	18	106	31	1,428	631	31	6.26	4.26	2.80	2.80
26	1.50	33	16	103	31	1,696	590	26	6.10	4.15	2.70	3.00
27	1.32	41	13	101	34	1,744	551	24	6.10	4.15	2.60	2.80
28	1.26	41	9.50	99	42	1,672	512	21	5.96	4.04	2.52	2.60
29	1.88	37	7.22	98	54	1,522	484	20	5.96	4.04	2.44	2.44
30	2.36	32	5.40	97	65	1,372	459	19	5.96	3.93	2.28	2.28
31		28		95	74		436		5.96	3.82	2.20	2.20
Total	36.20	407.91	401.50	1,431.11	1,577	19,388	26,077	5,063	285.14	155.65	93.12	71.76
Mean	1.21	13.1	13.4	46.1	50.9	646	841	169	9.20	5.02	3.33	2.31
Max.	3.71	41	28	107	93	1,744	1,268	384	18	5.82	3.82	3.00
Min.	0.50	1.26	5.40	1.44	31	87	436	19	5.96	3.82	2.52	2.04
Runoff - mcm.	3.128	35.243	34.690	123.648	136.253	1,675.123	2,253.053	437.443	24.636	13.448	8.045	6.200

WATER YEAR 1962 : Max. 1,744 Min. 0.50 Mean 151 Annual Runoff 4,755.576 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	18.00	154.26	1,744				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1960
CHEE RIVER BASIN**

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat $16^{\circ} - 42' - 41''$ N, Long $102^{\circ} - 48' - 30''$ E, on right bank at the bridge on highway Udon - Khon Kaen, south of Ban Nam Phong Market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,183 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +151.22 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.1

Location: On right bank on the abutment of bridge.

Elevation: +167.463 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 to date.

Rating Operation:

Period of Rating: 1954 - 57, 1964 - 65

Rated by Float: -

Rated by Current Meter: 1954 - 57, 1964 - 65

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

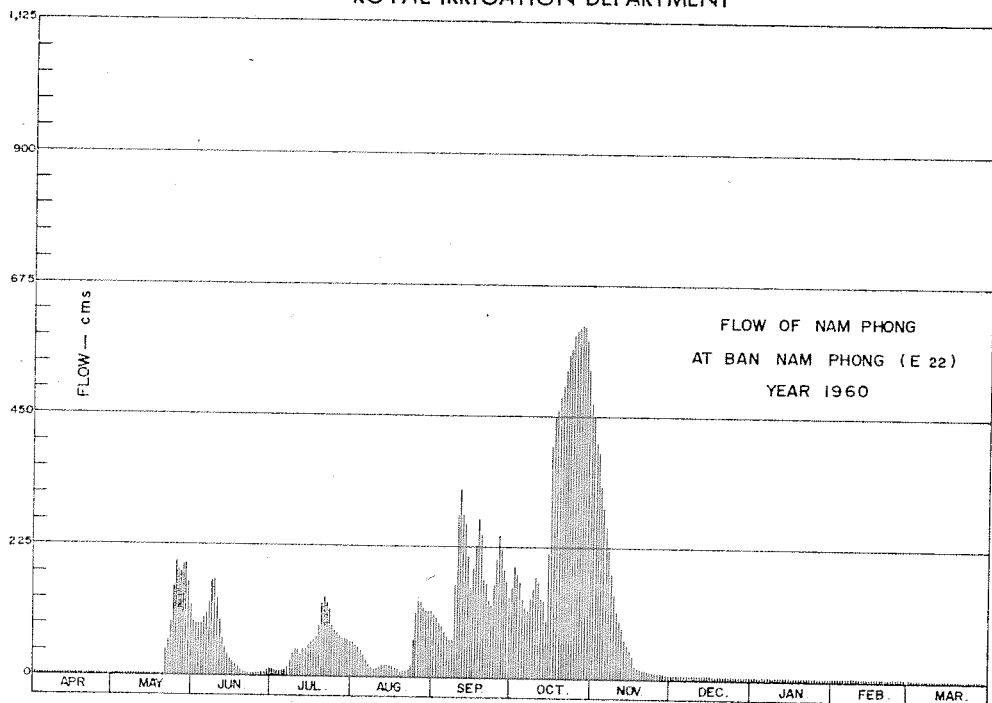
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1954 - 56, 1964 - 65. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1960 TO MARCH 31,1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	151.92	151.92	155.66	152.81	154.69	156.05	157.01	160.61	152.49	152.16	152.11	152.05
2	.92	.92	.55	.61	.58	155.95	.71	.14	.48	.16	.11	.05
3	.92	.92	.62	.51	.41	.71	.35	159.96	.46	.16	.11	.05
4	.92	.92	.62	.63	.22	.49	.12	.36	.46	.16	.11	.05
5	.92	.93	.93	.77	153.93	.25	156.66	158.96	.45	.16	.11	.04
6	151.92	151.95	156.10	152.88	153.53	155.01	156.31	158.56	152.45	152.16	152.10	152.04
7	.91	.97	.55	.98	.26	154.85	.20	.14	.45	.15	.10	.04
8	.91	.97	157.24	153.53	152.97	155.76	.69	157.51	.44	.15	.10	.04
9	.90	.96	.26	.97	.89	157.20	.82	156.83	.40	.15	.10	.04
10	.90	.96	156.66	154.29	153.01	158.81	157.41	.17	.39	.15	.09	.03
11	151.89	151.96	155.76	154.19	153.11	159.31	157.23	155.78	152.39	152.15	152.09	152.03
12	.90	.96	154.84	153.94	.22	158.80	156.66	.39	.35	.14	.09	.03
13	.91	.96	.31	154.26	.26	.61	.60	154.95	.33	.14	.09	.03
14	.92	.96	153.84	.34	.21	157.97	155.79	.60	.33	.12	.09	.03
15	.91	.96	.49	.55	.15	.04	158.08	.33	.32	.10	.08	.03
16	151.90	152.01	153.29	154.70	153.11	157.65	160.09	153.88	152.31	152.10	152.08	152.03
17	.91	.06	.11	.89	152.91	158.29	.62	.23	.26	.09	.08	.03
18	.92	.06	152.86	155.11	.88	.71	.76	.06	.24	.09	.08	.03
19	.94	.05	.68	.66	.52	.40	.90	152.94	.24	.08	.03	.02
20	.93	.65	.49	156.48	.64	157.31	161.07	.91	.24	.08	.07	.02
21	151.92	154.26	152.39	156.73	152.82	157.19	161.27	152.88	152.23	152.08	152.07	152.02
22	.93	.75	.31	.49	.51	156.60	.46	.85	.21	.08	.07	.02
23	152.02	155.70	.25	.27	153.19	.43	.59	.81	.21	.08	.07	.02
24	.01	157.02	.19	155.54	154.89	157.12	.68	.71	.20	.08	.07	.02
25	.01	.79	.21	.30	156.16	.89	.72	.64	.20	.08	.06	.02
26	152.00	157.58	152.29	155.19	156.61	158.36	161.76	152.61	152.20	152.07	152.06	152.02
27	151.97	.43	.28	.04	.54	.19	.79	.59	.19	.06	.06	.02
28	.95	.70	.31	154.93	.30	157.12	.76	.51	.19	.06	.06	.02
29	.94	.70	.72	.91	.19	.26	.62	.49	.17	.06	.06	.02
30	.92	.13	.91	.90	.17	156.71	.27	.47	.17	.06	.06	.02
31	.	156.29	.73	.20	.20		160.80		.16	.06		.02
Mean	151.93	153.66	154.09	154.49	154.03	157.18	159.15	155.13	152.31	152.11	152.08	152.03
Max.	152.02	157.79	157.26	156.73	156.61	159.31	161.79	160.61	152.49	152.16	152.11	152.05
Min.	151.89	151.92	152.19	152.51	152.51	154.85	155.79	152.47	152.16	152.06	152.06	152.02

WATER YEAR 1960 : Max. 161.79 m. Min. 151.89 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.60	3.60	92	13	60	108	152	447	8.90	5.60	5.10	4.50
2	3.60	3.60	88	10	56	103	192	394	8.80	5.60	5.10	4.50
3	3.60	3.60	91	9.10	51	94	171	376	8.60	5.60	5.10	4.50
4	3.60	3.60	91	10	46	86	159	317	8.60	5.60	5.10	4.50
5	3.60	3.65	102	12	39	77	135	282	8.50	5.60	5.10	4.40
6	3.60	3.65	110	15	29	69	119	249	8.50	5.60	5.10	4.40
7	3.55	3.75	131	17	22	64	114	219	8.50	5.50	5.10	4.40
8	3.55	3.75	165	29	16	65	136	180	8.40	5.50	5.10	4.40
9	3.50	3.70	166	40	14	163	143	143	8.00	5.50	5.10	4.40
10	3.50	3.70	135	48	17	269	174	113	7.90	5.50	4.90	4.30
11	3.45	3.70	96	46	19	312	165	97	7.90	5.50	4.90	4.30
12	3.50	3.70	64	39	21	268	135	82	7.50	5.40	4.90	4.30
13	3.55	3.70	49	47	22	253	132	67	7.30	5.40	4.90	4.30
14	3.60	3.70	37	49	21	208	98	57	7.30	5.20	4.90	4.30
15	3.55	3.70	28	55	20	154	215	49	7.20	5.00	4.80	4.30
16	3.50	4.10	23	60	19	188	389	38	7.10	5.00	4.80	4.30
17	3.55	4.60	19	66	15	229	448	22	6.60	4.90	4.80	4.30
18	3.60	4.60	14	72	15	261	465	18	6.40	4.90	4.80	4.30
19	3.70	4.50	11	92	9.20	237	482	16	6.40	4.80	4.80	4.30
20	3.65	11	8.90	127	11	169	503	15	6.40	4.80	4.70	4.20
21	3.60	47	7.90	138	13	162	529	15	6.30	4.80	4.70	4.20
22	3.65	61	7.10	127	9.10	132	557	14	6.10	4.80	4.70	4.20
23	4.20	92	6.50	117	21	124	565	13	6.10	4.80	4.70	4.20
24	4.10	153	5.90	88	66	159	589	12	6.00	4.80	4.70	4.20
25	4.10	196	6.10	78	112	205	595	11	6.00	4.80	4.60	4.20
26	4.00	184	6.90	75	132	234	601	10	6.00	4.70	4.60	4.20
27	3.85	176	6.80	70	129	222	605	9.90	5.90	4.60	4.60	4.20
28	3.75	191	7.10	67	118	186	601	9.10	5.90	4.60	4.60	4.20
29	3.70	191	12	66	114	166	580	8.90	5.70	4.60	4.60	4.20
30	3.60	159	15	66	113	137	529	8.70	5.70	4.60	4.60	4.20
31		118	61	61	114		470		5.60	4.60	4.60	4.20
Total	109.90	1,651.90	1,602.20	1,809.10	1,463.30	5,133	10,748	3,293.	220.10	158.20	136.30	133.30
Mean	3.66	53.3	53.4	58.3	47.2	171	347	110	7.10	5.10	4.87	4.30
Max.	4.20	196	166	138	132	312	605	447	8.90	5.60	5.10	4.50
Min.	3.45	3.60	5.90	9.10	9.10	64	98	8.70	5.60	4.60	4.60	4.20
Runoff - mcm.	9.495	142.724	136.430	156.306	126.429	443.491	926.627	284.515	19.017	13.668	11.776	11.517

WATER YEAR 1960 : Max. 605 Min. 3.45 Mean 72.5 Annual Runoff 2,285.997 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 27	06.00	161.97	605				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
CHEE RIVER BASIN**

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat $16^{\circ} - 42' - 41''$ N, Long $102^{\circ} - 48' - 30''$ E, on right bank at the bridge on highway Udon - Khon Kaen, south of Ban Nam Phong Market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,183 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +151.22 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.1

Location: On right bank on the abutment of bridge.

Elevation: +167.463 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 to date.

Rating Operation:

Period of Rating: 1954 - 57, 1964 - 65

Rated by Float: -

Rated by Current Meter: 1954 - 57, 1964 - 65

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

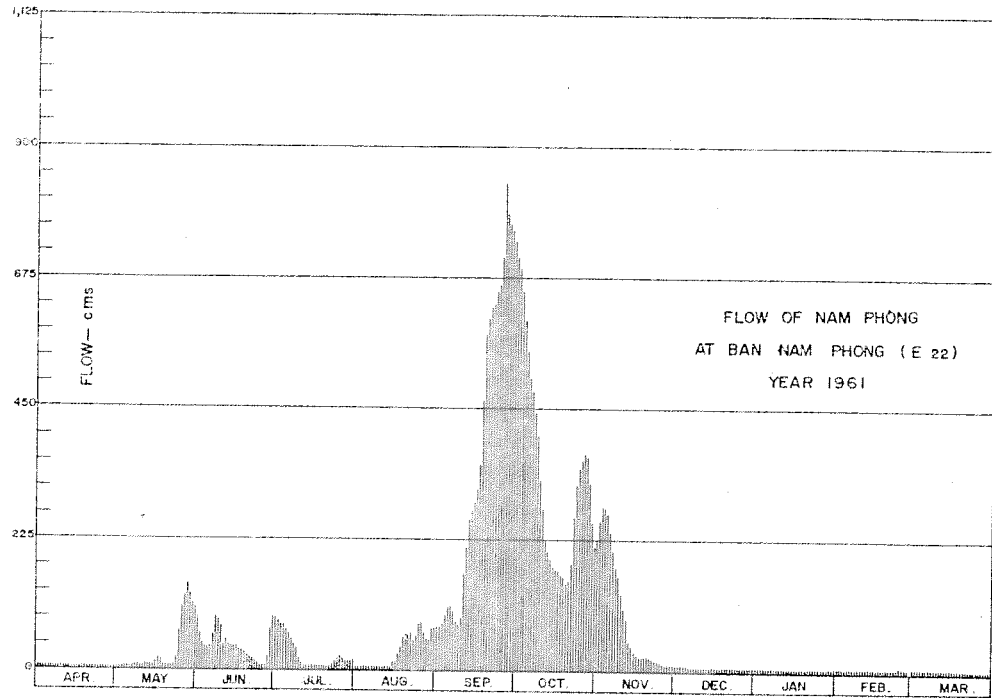
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1954 - 56, 1964 - 65. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	152.02	152.02	155.59	155.66	153.37	155.23	162.45	158.23	152.57	152.18	152.09	152.21
2	.02	.04	154.65	.48	.37	.20	.35	.70	.55	.17	.09	.21
3	.02	.05	.09	.28	.35	.38	.10	.98	.54	.16	.10	.21
4	.02	.06	153.90	.04	.34	.80	161.78	.93	.54	.15	.11	.20
5	.02	.06	.87	154.76	.29	156.11	.39	.82	.50	.15	.10	.20
6	152.02	152.05	153.95	154.51	152.28	156.14	161.08	158.41	152.49	152.15	152.12	152.19
7	.04	.13	154.71	.29	.27	155.87	160.88	157.93	.47	.15	.13	.19
8	.04	.21	155.64	.12	.23	.63	.58	.48	.46	.15	.12	.18
9	.02	.22	.54	153.68	.22	.30	.24	.18	.42	.14	.11	.17
10	.02	.19	.21	.07	.22	.64	159.46	156.59	.40	.14	.11	.15
11	152.02	152.32	154.14	152.68	152.29	156.48	158.91	156.03	152.37	152.14	152.10	152.13
12	.02	.60	.35	.40	.31	158.04	.23	155.57	.34	.14	.10	.10
13	.03	.49	.11	.39	.32	.70	157.91	154.41	.34	.14	.10	.09
14	.03	.30	153.99	.42	.32	.89	.69	.06	.34	.14	.09	.07
15	.04	.40	.96	.42	.89	159.07	.49	153.69	.32	.14	.08	.06
16	152.04	152.84	153.96	152.40	152.91	159.31	157.40	153.52	153.30	152.14	152.08	152.06
17	.04	153.17	.75	.38	153.65	.78	.37	.36	.29	.14	.08	.06
18	.04	152.89	.60	.32	154.01	160.76	.22	.30	.28	.14	.08	.06
19	.02	.42	.49	.27	.60	161.61	.12	.32	.27	.14	.08	.05
20	.03	.29	.27	.29	.42	.79	156.97	.39	.27	.13	.08	.05
21	152.03	152.21	153.25	152.30	154.74	161.92	157.05	153.28	152.27	152.12	152.08	152.05
22	.04	.18	.11	.48	.90	.95	.59	.21	.26	.11	.08	.04
23	.03	.58	152.84	.63	.42	162.10	158.74	.09	.25	.11	.08	.04
24	.02	153.23	.62	.64	.69	.17	159.36	.00	.22	.11	.11	.02
25	.02	154.94	.49	153.22	155.36	.46	.67	152.89	.20	.11	.12	.02
26	152.03	156.05	152.44	153.31	155.42	163.10	159.82	152.81	152.19	152.11	152.17	152.02
27	.04	.52	.41	.18	154.97	162.88	.91	.76	.19	.10	.20	.01
28	.04	.90	153.30	.01	.51	.78	.88	.71	.18	.10	.21	.00
29	.04	.55	155.11	152.99	.39	.72	.44	.68	.18	.09	.09	.00
30	.03	.20	.65	.93	155.13	.61	158.64	.63	.18	.09	.09	.00
31	.02	.02	.69	.19	.19	.08	.08	.08	.09	.09	.09	151.99
Mean	152.03	153.23	153.97	153.26	153.37	159.18	159.25	154.94	152.34	152.13	152.11	152.09
Max.	152.04	156.90	155.65	155.66	155.42	163.10	162.45	158.98	152.57	152.18	152.21	152.21
Min.	152.02	152.02	152.41	152.27	152.22	155.20	156.97	152.63	152.18	152.09	152.08	151.99

WATER YEAR 1961 : Max. 163.10 m. Min. 152.02 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.20	4.20	90	92	7.70	76	709	225	9.70	5.80	4.90	6.10
2	4.20	4.40	58	85	7.70	75	692	260	9.50	5.70	4.90	6.10
3	4.20	4.50	43	78	7.75	81	652	283	9.40	5.60	5.00	6.10
4	4.20	4.60	38	70	7.40	98	604	279	9.40	5.50	5.10	6.00
5	4.20	4.60	38	62	6.90	110	546	270	9.50	5.50	5.00	6.00
6	4.20	4.50	40	54	6.80	112	504	238	8.90	5.50	5.20	5.90
7	4.40	5.30	60	48	6.70	101	480	205	8.70	5.50	5.30	5.90
8	4.40	6.10	92	44	6.30	91	444	178	8.60	5.50	5.20	5.80
9	4.20	6.20	88	33	6.20	78	404	162	8.20	5.40	5.10	5.70
10	4.20	5.90	75	18	6.20	92	327	132	8.00	5.40	5.10	5.50
11	4.20	7.20	44	11	6.90	167	277	107	7.70	5.40	5.00	5.30
12	4.20	10	50	8.00	7.10	213	225	89	7.40	5.40	5.00	5.00
13	4.30	8.90	44	7.90	7.20	260	204	51	7.40	5.40	5.00	4.90
14	4.30	7.00	41	8.20	7.20	276	190	42	7.40	5.40	4.90	4.70
15	4.40	8.00	40	8.20	15	291	179	33	7.20	5.40	4.80	4.60
16	4.40	14	40	8.00	15	312	174	29	7.00	5.40	4.80	4.60
17	4.40	20	35	7.80	32	358	172	25	6.90	5.40	4.80	4.60
18	4.40	15	31	7.20	41	465	164	23	6.80	5.40	4.80	4.60
19	4.20	8.20	28	6.70	57	578	158	24	6.70	5.40	4.80	4.50
20	4.30	6.90	23	6.90	52	605	150	26	6.70	5.30	4.80	4.50
21	4.30	6.10	22	7.00	61	625	155	23	6.70	5.20	4.80	4.50
22	4.40	5.80	19	8.80	66	629	184	21	6.60	5.10	4.80	4.40
23	4.30	9.80	14	10	52	652	263	19	6.50	5.10	4.80	4.40
24	4.20	22	10	16	60	652	317	17	6.20	5.10	5.10	4.20
25	4.20	67	8.90	21	81	710	347	15	6.00	5.10	5.20	4.20
26	4.30	108	8.40	24	83	823	361	13	5.90	5.10	5.70	4.20
27	4.40	128	8.10	21	63	784	371	12	5.90	5.10	6.00	4.10
28	4.40	147	23	17	54	766	368	12	5.80	5.10	6.10	4.00
29	4.40	131	72	17	51	756	324	11	5.80	4.90		4.00
30	4.30	114	92	16	73	737	255	10	5.80	4.90		4.00
31	107			15	75		215		5.80	4.90		3.95
Total	128.70	1,001.20	1,275.40	856.70	1,029.05	11,583	10,415	2,834	228.10	164.90	142.00	152.35
Mean	4.29	32.3	42.5	27.0	33.2	386	336	94.5	7.36	5.32	5.07	4.91
Max.	4.40	147	92	92	85	823	709	283	9.70	5.80	6.10	6.10
Min.	4.20	4.20	8.10	6.70	6.20	75	150	10	5.80	4.90	4.80	3.95
Runoff - mcm.	11.129	86.504	110.194	72.291	88.910	1,000.771	899.856	244.858	19.708	14.247	12.269	13.163

WATER YEAR 1961 : Max. 823 Min. 3.95 Mean 816 Annual Runoff 2,573,890 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.26	06.00	163.10	823				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
CHEE RIVER BASIN

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat $16^{\circ} - 42' - 41''$ N, Long $102^{\circ} - 48' - 30''$ E, on right bank at the bridge on highway Udon - Khon Kaen, south of Ban Nam Phong Market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,183 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +151.22 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.1

Location: On right bank on the abutment of bridge.
Elevation: +167.465 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 to date.

Rating Operation:

Period of Rating: 1954 - 57, 1964 - 65
Rated by Float: -
Rated by Current Meter: 1954 - 57, 1964 - 65

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

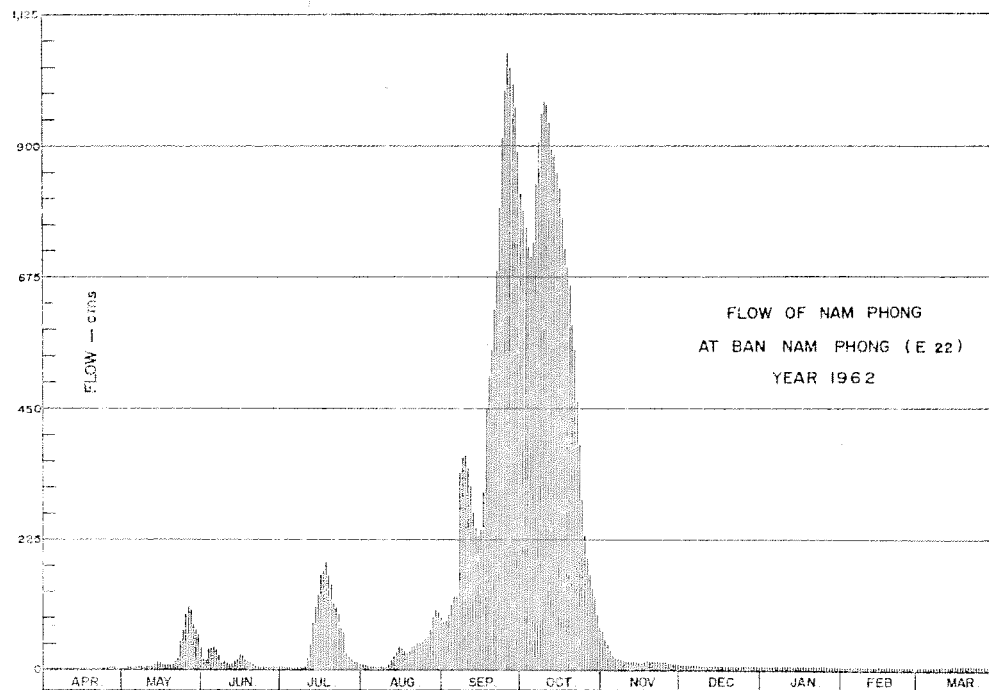
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1954 - 56, 1964 - 65. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	151.99	152.04	153.12	152.19	152.72	155.41	162.96	154.77	152.59	152.38	152.17	152.09
2	.99	.07	.05	.18	.65	.55	.74	.43	.55	.37	.17	.07
3	.99	.13	.83	.18	.54	.77	.55	.07	.53	.37	.17	.07
4	.99	.19	.94	.17	.48	156.21	.45	153.67	.53	.37	.17	.07
5	.98	.23	154.05	.15	.43	.52	.62	.32	.52	.37	.17	.07
6	151.98	152.27	153.79	152.10	152.40	158.27	163.16	153.25	152.51	152.37	152.17	152.07
7	.97	.32	.46	.11	.37	159.49	.56	.17	.50	.37	.17	.08
8	.96	.36	152.77	.14	.35	.85	.81	.09	.49	.37	.17	.10
9	.96	.44	153.01	.17	.22	.91	.91	.01	.48	.37	.17	.11
10	.96	.50	152.80	.22	.46	.67	.89	152.95	.48	.36	.17	.11
11	151.97	152.46	152.77	153.29	152.79	159.35	163.73	153.01	152.46	152.36	152.17	152.12
12	.97	.42	.90	154.21	153.08	158.85	.58	152.95	.45	.36	.17	.14
13	.98	.56	.96	155.44	.40	.51	.44	.90	.44	.36	.17	.15
14	.99	.88	153.13	156.12	.74	.35	.26	.85	.43	.36	.17	.17
15	.99	.95	.50	.60	154.02	.47	.11	.83	.42	.36	.17	.19
16	151.97	152.79	153.33	157.26	153.90	159.26	162.84	152.83	152.41	152.36	152.17	152.21
17	.96	.69	.05	.37	.71	160.63	.54	.88	.40	.36	.17	.22
18	.96	.72	152.96	.61	.61	161.10	.35	.93	.40	.36	.17	.25
19	.98	.67	.87	.26	.89	.42	.16	.93	.40	.36	.16	.27
20	152.00	.83	.71	156.92	154.03	.88	161.71	.93	.40	.36	.15	.29
21	152.02	152.95	152.55	156.26	154.13	162.31	161.48	152.91	152.40	152.36	152.14	152.21
22	.03	153.36	.44	.07	.19	.94	160.74	.89	.39	.36	.14	.15
23	.03	154.44	.36	155.76	.27	163.59	.07	.88	.39	.36	.14	.15
24	.05	155.04	.30	.18	.40	164.04	159.12	.86	.39	.36	.13	.15
25	.09	.80	.26	154.70	.53	.23	158.34	.83	.39	.35	.13	.15
26	152.12	156.37	152.21	153.57	154.70	164.21	157.70	152.79	152.38	152.34	152.12	152.14
27	.15	.00	.21	.32	155.11	.07	.21	.77	.38	.33	.12	.14
28	.08	155.29	.21	.11	.68	163.87	156.77	.75	.38	.27	.09	.12
29	.04	154.91	.20	.07	.99	.47	.50	.71	.38	.20	.08	.08
30	.03	.54	.19	152.96	.91	.07	155.72	.65	.38	.17	.07	.07
31		153.96	.80	.80	.56		.14			.18		.07
Mean	152.01	153.50	152.90	154.21	153.71	160.34	160.26	153.09	152.44	152.34	152.16	152.14
Max.	152.15	156.37	154.05	157.61	155.99	164.23	163.91	154.77	152.59	152.38	152.17	152.29
Min.	151.96	152.04	152.19	152.10	152.22	155.41	155.14	152.65	152.38	152.17	152.09	152.07

WATER YEAR 1962 : Max. 164.23 m. Min. 151.96 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.95	4.40	19	5.93	12	82	798	62	9.90	7.80	5.70	4.90
2	3.95	4.70	18	5.80	11	88	759	52	9.90	7.70	5.70	4.70
3	3.95	5.30	37	5.80	9.40	97	726	43	9.30	7.70	5.70	4.70
4	3.95	5.90	39	5.70	8.80	114	709	33	9.30	7.70	5.70	4.70
5	3.90	6.30	42	5.50	8.30	128	735	24	9.20	7.70	5.70	4.70
6	3.90	6.70	36	5.00	8.00	228	834	22	9.10	7.70	5.70	4.70
7	3.85	7.20	27	5.10	7.77	329	907	20	9.00	7.70	5.70	4.80
8	3.80	7.60	12	5.40	7.50	365	954	19	8.90	7.70	5.70	5.00
9	3.80	8.40	17	5.70	6.20	371	973	17	8.80	7.70	5.70	5.10
10	3.80	9.00	13	6.20	8.60	347	969	16	8.80	7.60	5.70	5.10
11	3.89	8.60	12	23	13	316	939	17	8.60	7.60	5.70	5.20
12	3.85	8.20	15	46	19	272	892	16	8.50	7.60	5.70	5.40
13	3.90	9.60	16	84	26	245	884	15	8.40	7.60	5.70	5.50
14	3.95	15	20	111	34	233	852	14	8.30	7.60	5.70	5.70
15	3.95	16	28	132	42	242	825	14	8.20	7.60	5.70	5.90
16	3.85	13	24	166	36	308	777	14	8.10	7.60	5.70	6.10
17	3.80	11	18	172	34	450	724	15	8.00	7.60	5.70	6.20
18	3.80	12	16	186	31	506	692	16	8.00	7.60	5.70	6.50
19	3.90	11	14	166	38	551	661	16	8.00	7.60	5.60	6.70
20	4.00	13	12	148	42	619	593	16	8.00	7.60	5.50	6.90
21	4.20	16	9.50	117	44	685	550	15	8.00	7.60	5.40	6.10
22	4.30	22	8.40	109	46	794	463	15	7.90	7.60	5.40	5.50
23	4.30	52	7.60	96	48	912	387	15	7.90	7.60	5.40	5.50
24	4.50	70	7.00	74	51	998	295	15	7.90	7.60	5.30	5.50
25	4.90	98	6.60	60	55	1,036	233	14	7.90	7.50	5.30	5.50
26	5.20	122	6.10	30	60	1,032	191	13	7.80	7.40	5.20	5.40
27	5.50	106	6.10	24	72	1,004	163	12	7.80	7.30	5.20	5.40
28	4.80	78	6.10	19	93	965	140	12	7.80	6.70	4.90	5.20
29	4.40	66	6.00	17	105	890	127	12	7.80	6.60		4.80
30	4.30	56	5.90	16	101	818	95	11	7.80	5.90		4.70
31		40		13	88		73		7.80	5.80		4.70
Total	124.14	907.90	504.30	1,865.20	1,167.57	15,025	18,920	595	260.30	230.00	155.80	166.80
Mean	4.14	29.3	16.8	60.2	37.7	501	610	19.8	8.40	7.42	5.56	5.38
Max.	5.50	122	42	186	105	1,036	973	62	9.90	7.80	5.70	6.90
Min.	3.80	4.40	5.90	5.00	6.20	82	73	11	7.80	5.80	4.90	4.70
Runoff - mm	10.726	78.442	43.571	161.153	100.878	1,298.160	1,634.688	51.408	22.490	19.872	13.461	14.411

WATER YEAR 1962 : Max. 1,036 Min. 3.80 Mean 109 Annual Runoff 3,449.262 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	16.00	164.21	1,036				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHEE RIVER BASIN

Lam Pao at Ban Na Kaeo, Kalasin (E.30)

Location: Lat 16° - 47' - 34" N, Long 103° - 26' - 58" E, on left bank 500 meters west of Ban Na Kaeo, 600 meters downstream from the confluence with Lam Phanchat, Amphoe Sahatsakhan, Kalasin.

Drainage Area: 3,955 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +145.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Infront of the camp of station E.30
Elevation: +158.602 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.

Rated by Float: -

Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

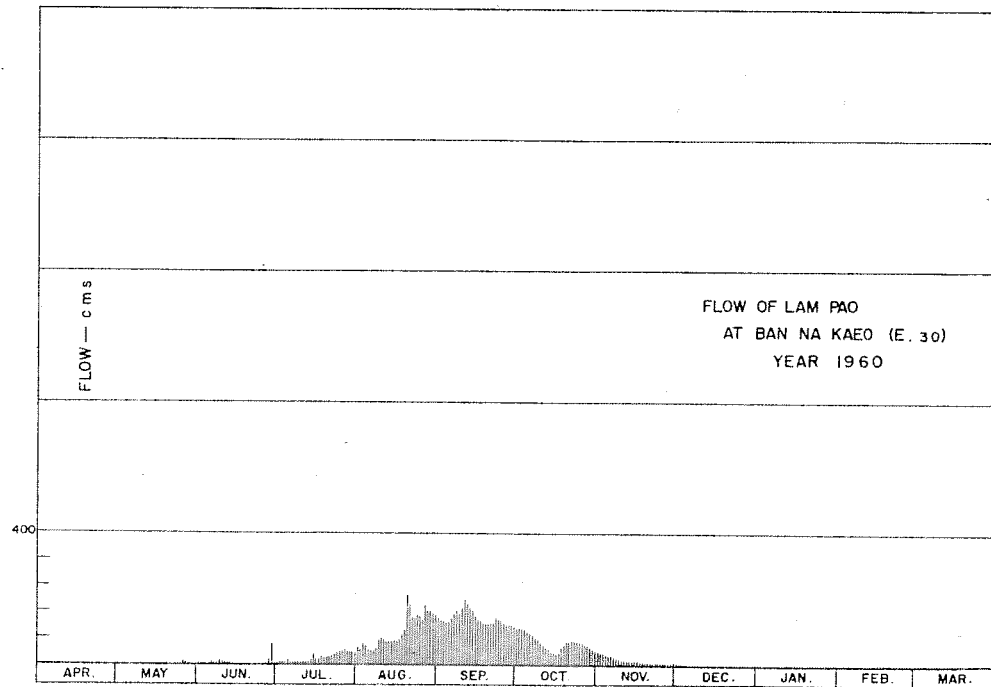
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.36	145.37	145.56	146.09	147.99	150.38	149.70	147.75	145.92	145.50	145.46	145.41
2	.36	.37	.51	.15	.95	.26	.67	.65	.91	.47	.46	.41
3	.36	.36	.50	.27	148.42	.20	.66	.53	.89	.46	.46	.41
4	.36	.36	.52	.17	.26	.10	.62	.39	.86	.56	.46	.43
5	.36	.35	.55	.39	147.75	149.99	.52	.29	.85	.54	.47	.43
6	145.36	145.35	146.07	146.32	147.73	150.34	149.39	147.18	145.81	145.53	145.43	145.41
7	.36	.35	.01	.22	.61	.95	.23	.07	.77	.51	.46	.43
8	.35	.38	.14	.21	.94	.83	.07	146.95	.74	.49	.46	.46
9	.35	.71	.30	.19	148.64	.80	148.87	.84	.71	.60	.47	.44
10	.35	.53	.30	.17	.94	.93	.66	.75	.70	.53	.46	.42
11	145.35	145.43	146.16	146.27	148.88	151.45	148.43	146.67	145.68	145.53	145.45	145.42
12	.35	.41	145.93	.30	.56	.24	.23	.59	.67	.51	.51	.56
13	.35	.39	.78	.39	.58	150.98	.04	.54	.66	.50	.51	.64
14	.35	.37	.67	.79	.60	.87	147.91	.50	.64	.47	.51	.55
15	.35	.41	.60	147.62	.60	.59	.93	.43	.64	.46	.48	.52
16	145.35	145.37	145.53	146.95	148.64	150.38	147.70	146.38	145.61	145.45	145.47	145.49
17	.35	.40	.55	.76	.81	.22	.72	.33	.60	.44	.45	.49
18	.35	.38	.48	147.22	149.18	.10	.25	.29	.59	.47	.46	.53
19	.35	.37	.44	146.92	.66	.02	.34	.25	.58	.47	.46	.45
20	.38	.41	.44	147.03	151.58	149.99	.61	.21	.56	.48	.45	.43
21	145.39	145.43	145.43	147.12	151.51	150.00	148.64	146.20	145.61	145.46	145.44	145.41
22	.39	.58	.50	.21	150.69	.00	.70	.18	.56	.49	.43	.40
23	.38	.53	.40	.34	.57	.32	.68	.17	.55	.57	.42	.39
24	.37	.57	.40	.52	.95	.12	.64	.14	.59	.50	.42	.37
25	.35	.55	.39	.55	.88	.04	.57	.10	.54	.48	.41	.37
26	145.35	146.17	145.42	147.59	150.56	149.91	148.48	146.08	145.54	145.48	145.41	145.36
27	.37	.01	.44	.85	151.04	.86	.37	.04	.53	.48	.41	.36
28	.37	145.78	146.41	.69	150.84	.85	.25	.02	.53	.47	.40	.35
29	.37	.77	148.58	.63	.69	.84	.12	145.97	.58	.46	.35	.35
30	.37	.68	146.26	.61	.60	.79	.00	.95	.50	.46	.35	.35
31		.61		.53	.49		147.87		.50	.44		.35
Mean	145.36	145.51	145.81	146.87	149.58	150.33	148.61	146.58	145.66	145.49	145.45	145.43
Max.	145.39	146.17	148.58	147.85	151.58	151.45	149.70	147.75	145.92	145.57	145.51	145.64
Min.	145.35	145.35	145.39	146.09	147.61	149.79	147.25	145.95	145.50	145.44	145.40	145.35

WATER YEAR 1960 : Max. 151.58 m. Min. 145.35 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.58	3.86	52	142	106	40	3.42	0.44	0.12	0.04
2			0.42	5.54	47	133	108	36	3.31	0.38	0.08	0.04
3			0.46	7.22	61	130	107	34	3.02	0.32	0.08	0.04
4			0.50	3.97	57	126	107	31	2.84	0.50	0.08	0.08
5			0.64	10	41	128	101	28	2.74	0.40	0.12	0.04
6			4.63	6.10	42	144	96	25	2.39	0.34	0.00	0.00
7			3.97	5.18	37	155	91	22	2.02	0.26	0.08	0.04
8		0.26	5.54	5.40	48	164	80	19	1.81	0.20	0.04	0.16
9		1.36	8.34	5.54	73	154	74	17	1.60	0.26	0.08	0.08
10		0.56	7.78	5.68	79	170	64	15	1.48	0.36	0.04	0.04
11		0.34	6.10	7.50	75	199	59	14	1.30	0.26	0.08	0.04
12		0.28	3.42	4.63	67	186	51	12	1.30	0.36	0.28	0.36
13		0.22	1.88	6.94	70	168	44	11	1.24	0.48	0.26	0.54
14		0.12	1.24	15	69	165	39	11	1.12	0.56	0.20	0.36
15		0.22	0.89	31	71	148	37	10	1.18	0.12	0.12	0.32
16		0.04	0.54	16	71	136	32	9.18	1.00	0.08	0.12	0.24
17		0.12	0.68	13	78	132	34	8.48	0.92	0.04	0.08	0.26
18		0.00	0.42	24	89	126	54	7.92	0.84	0.12	0.08	0.32
19		0.00	0.26	18	109	123	57	7.36	0.76	0.12	0.12	0.20
20	0.02	0.08	0.30	21	211	123	67	6.80	0.64	0.16	0.08	0.12
21	0.03	0.12	0.24	23	180	127	68	7.08	0.84	0.08	0.08	0.08
22	0.03	0.60	0.32	26	142	125	72	6.65	0.64	0.16	0.08	0.04
23	0.02	0.50	0.12	28	141	144	71	6.38	0.60	0.34	0.04	0.04
24	0.01	0.58	0.20	34	157	136	70	6.10	0.76	0.20	0.04	0.04
25		0.60	0.20	32	151	131	68	5.40	0.64	0.12	0.04	0.08
26		5.82	0.28	39	135	123	65	5.18	0.64	0.16	0.04	0.04
27		4.08	0.36	43	178	118	61	4.74	0.60	0.16	0.08	0.04
28		2.02	9.46	38	164	117	56	4.41	0.58	0.12	0.04	0.04
29		1.81	63	37	164	119	52	4.08	0.68	0.00		0.04
30		1.30	6.66	36	155	117	48	3.86	0.76	0.12		0.04
31		0.80		34	149		44		0.72	0.08		0.04
Total	0.11	21.83	129.42	583.56	3,163	4,209	2,083	418.63	42.39	7.30	2.58	3.84
Mean	0.004	0.70	4.31	18.8	102	140	67.2	13.9	1.37	0.23	0.09	0.12
Max.	0.03	5.82	63	43	211	199	108	40	3.42	0.56	0.28	0.54
Min.	0.00	0.00	0.12	3.86	37	117	32	3.86	0.58	0.00	0.00	0.00
Runoff - mcm.	0.009	1.886	11.182	50.419	273.283	363.658	179.971	36.170	3.652	0.631	0.223	0.332

WATER YEAR 1960 : Max. 211 Min. 0.00 Mean 29.2 Annual Runoff 921.427 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug, 20	21.00	152.20	250				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
CHEE RIVER BASIN**

Lam Pao at Ban Na Kaeo, Kalasin (E.30)

Location: Lat 16^o- 47' - 34" N, Long 103^o- 26' - 58" E, on left bank 500 meters west of Ban Na Kaeo, 600 meters downstream from the confluence with Lam Phanchat, Amphoe Sahatsakhan, Kalasin.

Drainage Area: 3,955 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +145.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Infront of the camp of station E.30
Elevation: +158.602 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Unstable, no shifting adjustment but periodic rating curves are used for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elev. +154.59 m.(M.S.L.) and is included for flow computation.

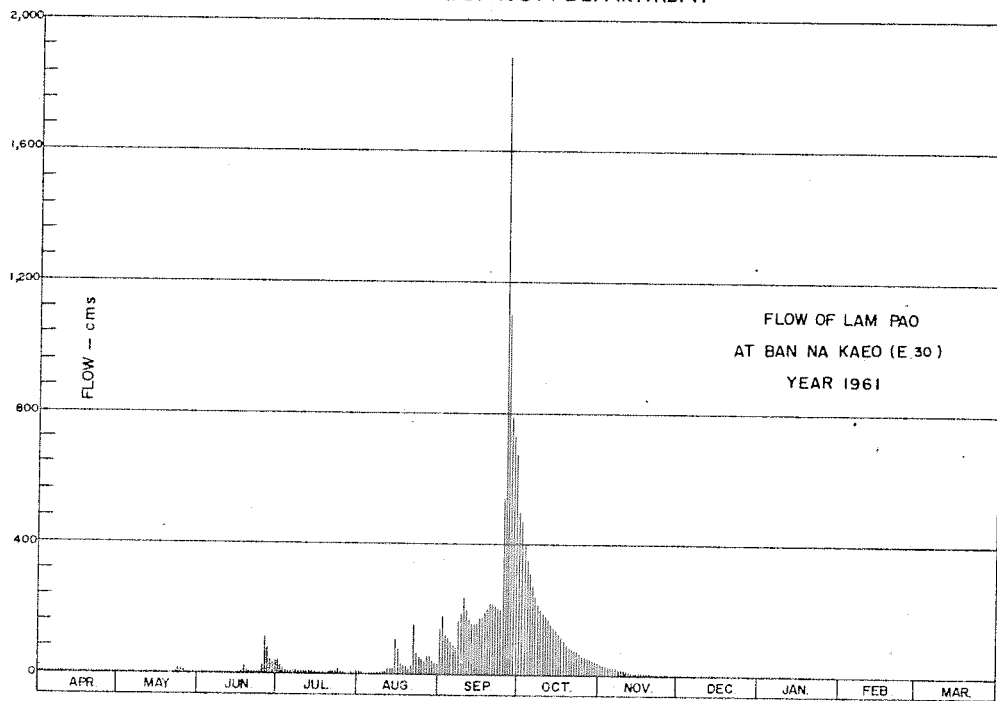
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.35	145.45	145.93	147.94	146.76	150.10	154.43	147.82	146.41	146.05	145.89	145.87
2	.35	146.18	.91	.27	.61	151.82	.34	.74	.40	.05	.89	.87
3	.35	145.97	.86	146.89	.52	150.91	153.88	.66	.58	.02	.88	.86
4	.34	.66	.82	.67	.44	.21	.32	.59	.35	.01	.92	.87
5	.34	.55	.82	.58	.39	149.62	152.81	.52	.32	.00	.91	.86
6	145.34	145.59	145.88	146.69	146.37	149.22	152.33	147.45	146.31	145.99	145.90	145.86
7	.35	.74	.88	.72	.35	.05	151.93	.37	.27	.59	.90	.85
8	.35	.88	.88	.76	.52	150.57	.61	.30	.24	.99	.89	.85
9	.36	.96	.92	.75	.58	151.19	.35	.22	.22	.99	.89	.84
10	.36	.69	.95	.75	.53	.97	.12	.13	.19	.99	.88	.85
11	145.36	145.63	145.96	146.75	146.63	152.08	150.93	147.05	146.17	145.98	145.88	145.86
12	.35	.67	.98	.67	147.01	151.20	.79	146.98	.15	.97	.88	.88
13	.35	.83	146.07	.61	.00	150.64	.55	.91	.14	.86	.88	.87
14	.34	.81	.21	.56	146.95	.54	.37	.85	.13	.94	.89	.86
15	.38	.87	.19	.52	149.64	.64	.22	.79	.13	.93	.88	.86
16	145.92	145.63	146.21	146.50	148.96	151.23	149.99	146.74	146.13	145.93	145.87	145.86
17	.94	.61	.38	.47	147.70	.78	.76	.71	.12	.93	.86	.86
18	.67	.56	147.13	.46	.33	.65	.54	.68	.12	.92	.86	.86
19	.35	.54	146.58	.51	.16	.69	.31	.66	.11	.91	.87	.87
20	.68	.58	.43	.64	146.97	.96	.10	.65	.10	.91	.87	.87
21	146.15	145.94	146.31	146.65	147.21	151.87	148.97	145.62	146.09	145.90	145.86	145.87
22	145.91	146.11	.47	.73	150.38	.84	.94	.59	.09	.90	.88	.86
23	.72	145.97	.41	.70	148.88	.66	.80	.56	.09	.90	.88	.86
24	.67	146.13	.29	.92	.43	.85	.67	.54	.89	.90	.87	.87
25	.62	.83	147.31	.72	.06	153.91	.56	.52	.09	.90	.87	.89
26	145.56	146.69	149.99	146.56	147.72	157.93	148.44	146.51	146.09	145.90	145.88	145.91
27	.52	.52	.18	.49	148.20	156.24	.31	.48	.09	.90	.88	.86
28	.49	.02	147.94	.47	.19	155.46	.20	.46	.09	.90	.87	.84
29	.46	145.96	.35	.58	147.77	.28	.11	.44	.08	.90	.87	.84
30	.44	146.00	.50	.55	.65	.10	.01	.41	.07	.89	.86	.86
31		145.95		.72	.62		147.90		.06	.89		.85
Mean	145.52	145.88	146.56	146.70	147.43	151.97	150.34	146.93	146.17	145.95	145.88	145.86
Max.	146.15	146.83	149.99	147.94	150.38	157.93	154.43	147.82	146.41	146.05	145.92	145.91
Min.	145.34	145.45	145.82	146.46	146.35	149.05	147.90	146.41	146.06	145.89	145.86	145.84

WATER YEAR 1961 : Max. 157.93 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.25	3.43	47	14	143	495	38	4.40	0.80	0.13	0.10
2	0.05	6.60	3.21	28	10	183	475	36	4.20	0.80	0.13	0.10
3	0.05	3.87	2.66	19	8.20	123	402	33	3.90	0.70	0.12	0.08
4	0.04	1.16	2.22	14	6.60	114	355	31	3.50	0.60	0.17	0.10
5	0.04	0.60	2.22	9.50	5.50	103	312	29	3.10	0.60	0.16	0.08
6	0.04	0.76	2.88	12	5.20	91	275	27	2.90	0.50	0.15	0.08
7	0.05	1.64	2.88	13	4.90	86	245	25	2.50	0.50	0.15	0.06
8	0.05	2.88	2.88	14	8.20	170	223	23	2.20	0.50	0.13	0.05
9	0.06	3.76	3.32	14	9.50	191	204	21	2.00	0.50	0.13	0.04
10	0.06	1.34	3.65	13	8.40	240	190	19	1.70	0.50	0.12	0.05
11	0.06	0.98	3.76	13	11	205	178	17	1.60	0.50	0.12	0.08
12	0.05	1.22	3.98	11	20	174	171	15	1.40	0.40	0.12	0.12
13	0.05	2.33	5.04	10	20	160	157	14	1.30	0.40	0.12	0.10
14	0.04	2.11	7.06	9.00	19	159	148	12	1.30	0.40	0.13	0.08
15	0.08	1.22	6.75	8.20	111	160	140	11	1.30	0.30	0.12	0.08
16	3.32	0.98	7.06	7.70	80	178	128	10	1.30	0.30	0.10	0.08
17	3.54	0.86	9.94	7.10	35	176	117	9.70	1.20	0.30	0.08	0.08
18	1.22	0.64	27	6.90	31	194	106	9.10	1.20	0.30	0.08	0.08
19	0.60	0.56	14	7.90	25	204	96	8.80	1.20	0.30	0.10	0.10
20	1.28	0.72	11	11	19	221	87	8.60	1.10	0.30	0.10	0.10
21	6.15	3.54	8.68	11	27	217	81	8.00	1.00	0.20	0.08	0.10
22	3.21	5.55	12	13	159	214	80	7.50	1.00	0.20	0.12	0.08
23	1.52	3.87	10	12	67	202	74	7.00	1.00	0.20	0.12	0.08
24	1.22	5.85	8.34	18	56	201	69	6.60	1.00	0.20	0.10	0.10
25	0.92	19	28	12	50	542	64	6.30	1.00	0.20	0.10	0.13
26	0.64	16	113	9.00	43	1,904	60	6.10	1.00	0.20	0.12	0.16
27	0.48	13	82	7.50	58	1,099	55	5.60	1.00	0.20	0.12	0.08
28	0.37	4.44	46	7.10	58	790	51	5.30	1.00	0.20	0.10	0.04
29	0.28	3.76	35	9.50	44	730	48	4.90	1.00	0.20	0.20	0.04
30	0.22	4.20	45	8.80	40	675	44	4.40	0.90	0.20	0.20	0.08
31		3.65	13	13	39		41	0.80	0.80	0.20	0.20	0.05
Total	25.74	117.34	512.96	396.20	1,032.50	9,847	5,171	458.90	54.00	12.10	3.32	2.58
Mean	0.86	3.78	17.1	12.8	35.2	328	167	15.3	1.74	0.39	0.12	0.08
Max.	6.15	19	113	47	159	1,904	495	38	4.40	0.80	0.17	0.16
Min.	0.04	0.25	2.22	6.90	4.90	86	41	4.40	0.80	0.20	0.08	0.04
Runoff - mcm.	2.224	10.159	44.320	34.232	94.392	850.761	446.774	39.649	4.656	1.045	0.287	0.223

WATER YEAR 1961 : Max. 1,904 Min. 0.04 Mean 48.5 Annual Runoff 1,528.730 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 26	12.00	158.60	2,256				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHEE RIVER BASIN

Lam Pao at Ban Na Kao, Kalasin (E.30)

Location: Lat 16° - 47' - 34" N, Long 103° - 26' - 58" E, on left bank 500 meters west of Ban Na Kao, 600 meters downstream from the confluence with Lam Phanchat, Amphoe Sahatsakkan, Kalasin.

Drainage Area: 3,955 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +145.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: Infront of the camp of station E.30

Elevation: +158.602 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 to date.

Rated by Float: -

Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

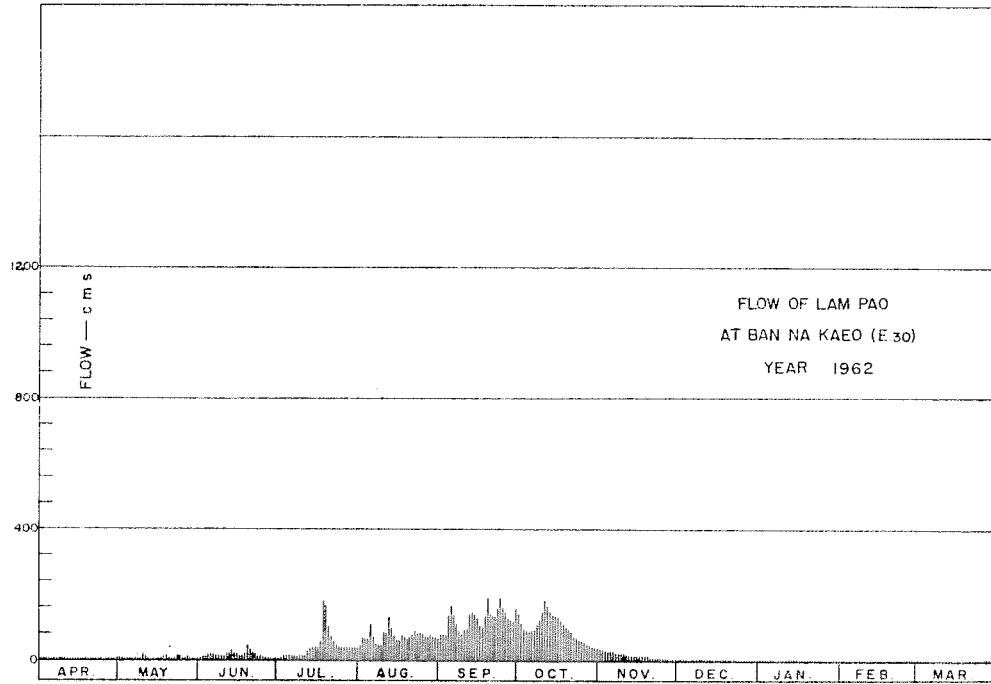
General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.83	146.47	146.35	146.54	147.85	148.71	150.06	147.46	146.23	145.85	145.79	145.76
2	.83	.37	.80	.61	148.38	.71	149.50	.39	.23	.84	.78	.75
3	.83	.19	.85	.67	.34	.61	.21	.34	.22	.83	.80	.74
4	.84	.23	.97	.72	.41	149.72	.03	.30	.22	.82	.80	.76
5	.83	.25	.96	.79	149.50	150.47	148.89	.21	.20	.85	.79	.76
6	145.85	146.14	146.89	146.70	148.81	150.11	149.01	147.13	146.18	145.84	145.79	145.75
7	.84	.07	.84	.68	.12	149.48	.04	.06	.15	.80	.78	.79
8	.85	.02	.75	.66	147.82	148.99	.42	.00	.13	.82	.79	.76
9	.80	.05	.68	.75	.76	.79	.77	146.93	.10	.85	.80	.76
10	.92	.98	.66	.79	148.65	.98	150.16	.89	.09	.84	.79	.74
11	145.89	146.80	147.07	146.82	148.99	148.99	151.05	146.85	146.08	145.83	145.79	145.73
12	.87	.35	.21	147.33	149.65	149.93	150.48	.81	.07	.82	.78	.73
13	.86	.31	.44	.62	.54	150.22	.10	.77	.05	.84	.79	.74
14	.85	.30	.20	.72	148.70	149.91	149.84	.74	.04	.84	.79	.77
15	.84	.15	.06	.67	.31	.81	.89	.70	.03	.83	.78	.75
16	145.86	146.09	146.95	147.68	148.21	149.37	149.78	146.65	146.02	145.81	145.80	145.74
17	.84	.28	.87	.59	.61	.33	.57	.61	.02	.82	.78	.74
18	.84	.58	147.03	150.74	.45	150.26	.33	.56	.00	.84	.78	.74
19	.83	.94	.71	.52	.36	.92	.11	.51	.00	.82	.77	.74
20	.87	.58	.50	149.15	.44	.27	148.91	.47	145.99	.81	.76	.76
21	145.86	146.44	147.31	148.38	148.61	149.99	148.74	146.43	145.98	145.82	145.77	145.76
22	.86	.38	.03	.04	.97	.85	.59	.38	.95	.81	.77	.89
23	.90	.94	146.72	147.86	.72	150.47	.45	.34	.94	.82	.78	.93
24	.88	.91	.69	.74	.73	.96	.31	.32	.93	.80	.77	.91
25	.93	.71	.64	.69	.74	.33	.17	.29	.92	.80	.76	146.06
26	145.99	146.63	146.61	147.68	148.56	150.02	148.04	146.27	145.90	145.80	145.76	145.95
27	146.12	.57	.59	.67	.50	149.71	147.92	.26	.90	.80	.76	.89
28	.12	.49	.57	.64	.75	.64	.82	.24	.90	.79	.76	.94
29	.26	.43	.55	.68	.62	.64	.73	.24	.88	.79	.89	.89
30	.34	.34	.54	.68	.51	150.46	.64	.25	.86	.79	.84	.84
31		.30	.59	.47	.47		.54		.86	.79	.82	.82
Mean	145.91	146.43	146.90	147.59	148.52	149.75	149.07	146.71	146.03	145.82	145.78	145.80
Max.	146.34	146.98	147.71	150.74	149.65	150.96	149.46	146.23	146.23	145.85	145.80	146.06
Min.	145.83	146.02	146.35	146.54	147.76	148.61	147.54	145.86	145.86	145.79	145.76	145.73

WATER YEAR 1962 : Max. 151.05 m. Min. 145.73 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.04	5.68	4.72	6.00	45	74	136	33	4.00	0.40	0.08	0.08
2	0.04	4.40	11	8.06	66	76	110	31	4.12	0.40	0.08	0.08
3	0.04	2.55	9.50	9.14	64	73	92	30	4.00	0.32	0.16	0.00
4	0.06	3.36	15	10	63	136	90	29	3.88	0.08	0.16	0.08
5	0.04	4.14	18	12	110	165	87	26	3.52	0.24	0.08	0.08
6	0.07	2.22	16	10	71	136	91	25	2.80	0.24	0.16	0.00
7	0.06	1.20	14	9.50	49	106	90	22	3.16	0.16	0.08	0.00
8	0.07	0.82	12	8.96	42	84	108	19	3.04	0.40	0.16	0.08
9	0.13	0.92	10	10	44	78	126	18	2.68	0.56	0.24	0.08
10	0.19	17	10	11	86	89	150	17	2.56	0.24	0.16	0.00
11	0.10	12	19	12	79	93	182	16	2.44	0.24	0.16	0.00
12	0.07	3.62	23	25	129	141	161	15	2.20	0.24	0.08	0.00
13	0.06	2.99	30	33	103	143	144	14	2.08	0.24	0.08	0.08
14	0.04	2.77	22	38	72	135	133	13	2.08	0.24	0.00	0.00
15	0.03	1.76	18	38	59	124	133	12	1.96	0.16	0.16	0.00
16	0.06	1.68	15	37	57	103	128	11	1.84	0.16	0.16	0.00
17	0.03	4.40	13	33	74	100	119	10	1.84	0.16	0.16	0.00
18	0.03	8.24	18	178	70	145	107	9.50	1.52	0.24	0.16	0.08
19	0.01	14	42	165	63	187	99	8.96	1.44	0.16	0.08	0.08
20	0.07	6.85	32	99	70	142	93	8.24	1.30	0.24	0.08	0.16
21	0.06	4.27	23	66	75	130	82	7.52	1.28	0.16	0.08	0.08
22	0.27	3.23	16	53	87	131	71	6.80	0.96	0.16	0.16	0.00
23	0.51	12	11	44	78	162	66	6.00	0.96	0.16	0.08	0.88
24	0.47	12	8.78	40	80	186	62	6.00	0.96	0.16	0.08	0.80
25	0.86	5.84	8.42	39	79	155	57	5.36	0.88	0.08	0.08	2.20
26	0.86	7.02	7.53	39	71	141	53	4.96	0.64	0.00	0.08	1.04
27	1.36	8.60	7.02	38	69	124	47	4.72	0.64	0.16	0.08	0.64
28	0.92	5.68	6.34	39	77	120	44	4.24	0.72	0.08	0.08	1.12
29	2.30	3.49	6.17	38	72	116	41	4.24	0.64	0.00		0.72
30	3.40	1.60	6.00	38	67	155	38	4.00	0.48	0.16		0.32
31		2.44		35	64		36		0.48	0.08		0.16
Total	12.25	166.79	452.48	1,221.66	2,235	3,750	2,976	411.54	61.16	6.32	3.20	8.84
Mean	0.41	5.41	15.1	39.4	72.1	125	96.0	13.7	1.97	0.204	0.11	0.28
Max.	3.40	17	42	178	129	187	182	33	4.12	0.56	0.24	2.20
Min.	0.01	0.82	4.72	6.00	42	73	36	4.00	0.48	0.00	0.08	0.00
Runoff - mcm.	1.058	14.497	39.094	105.551	193.104	324.000	257.126	35.557	5.284	0.546	0.276	0.764

WATER YEAR 1962 : Max. 187 Min. 0.00 Mean 30.9 Annual Runoff 976.859 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 19	13.00	151.38	212				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHEE RIVER BASIN

Nam Phong at Ubolratana Damsite, Khon Kaen (E.31)

Location: Lat 16°-46'-23" N, Long 102°-37'-58" E, on left bank 100meters downstream from Ubolratana Damsite, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 12,104 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +155.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.123

Location: On left bank near the gage site.
Elevation: +168.189 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings

Period of Available Gage Records: 1957 - 64

Rating Operation:

Period of Rating: 1957 - 64
Rated by Float: -
Rated by Current Meter: 1957 - 64

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

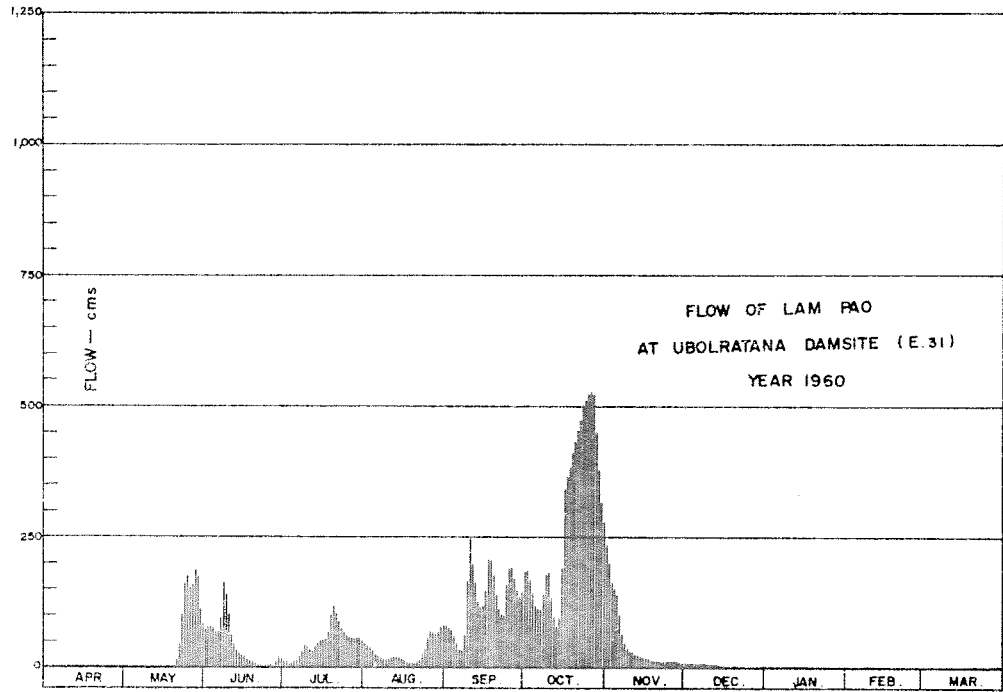
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	155.92	155.94	159.88	157.38	158.98	160.18	162.69	164.49	157.11	156.36	156.09	156.00
2	.91	.96	160.11	.17	.87	.04	.79	163.60	.08	.36	.08	155.97
3	.90	156.02	.12	.09	.73	159.89	.31	162.81	.05	.34	.07	.94
4	.90	.01	159.87	.19	.40	.58	161.66	.29	.05	.30	.66	.95
5	.90	.02	.70	.21	.07	.10	.22	161.68	.04	.28	.05	.95
6	155.89	156.03	159.84	157.43	157.84	158.53	161.04	160.56	157.02	156.29	156.06	155.99
7	.89	155.99	161.65	.96	.72	.54	.03	159.51	156.98	.28	.11	156.09
8	.88	.96	162.25	158.55	.63	159.63	.80	158.91	.95	.29	.08	.00
9	.91	.96	161.83	.94	.60	162.48	162.64	.55	.92	.29	.09	155.97
10	.88	.98	160.54	.84	.72	163.90	.69	.32	.88	.26	.08	.96
11	155.90	155.99	159.40	158.55	157.76	163.08	161.66	158.25	156.79	156.23	156.04	155.97
12	.90	.96	158.82	.43	.82	162.13	160.57	.12	.73	.25	.11	156.02
13	.91	.95	.44	.83	.82	161.46	.13	157.98	.71	.52	.21	.03
14	.91	156.06	.14	159.05	.75	.10	.79	.88	.68	.24	.19	.00
15	.88	.36	.00	.20	.57	.21	163.82	.76	.66	.20	.19	155.98
16	155.88	156.42	157.84	159.28	157.40	162.18	163.53	157.65	156.63	156.17	156.22	155.98
17	.90	.34	.63	.38	.23	163.17	.90	.56	.60	.15	.16	.94
18	.90	.27	.39	.79	.06	.12	166.11	.46	.58	.17	.23	.93
19	.88	.42	.20	160.89	156.92	162.54	.47	.39	.56	.17	.25	.91
20	.86	.34	.03	161.16	157.01	161.62	.84	.39	.55	.15	.20	.90
21	155.87	158.01	156.88	160.87	157.21	160.99	167.08	157.36	156.53	156.16	156.17	155.92
22	156.16	159.29	.77	.39	.66	.60	.30	.33	.51	.15	.13	.90
23	.17	161.37	.66	159.93	158.20	.74	.53	.31	.49	.16	.15	.87
24	.18	162.27	.70	.66	.69	162.22	.68	.28	.48	.16	.08	.90
25	.11	.57	.77	.55	159.46	.82	.78	.30	.46	.15	.07	.86
26	156.08	161.99	156.81	159.45	159.81	162.88	167.82	157.27	156.45	156.14	156.05	155.86
27	.04	162.25	.73	.41	.72	.45	.75	.18	.44	.14	.03	.86
28	155.97	.73	157.29	.36	.62	161.91	.38	.14	.41	.15	.02	.90
29	.97	.40	.87	.42	.67	.56	166.76	.12	.40	.12		.92
30	.96	161.30	.61	.33	160.09	.97	.05	.09	.39	.11		.89
31		160.28		.14	.16		165.31		.37	.11		.90
Mean	155.95	157.95	158.52	158.99	158.26	161.39	164.39	158.68	156.69	156.21	156.12	155.94
Max.	156.18	162.73	162.25	161.16	160.16	163.90	167.82	164.49	157.11	156.36	156.25	156.09
Min.	155.86	155.94	156.66	157.09	156.92	158.53	160.13	157.09	156.37	156.11	156.02	155.86

WATER YEAR 1960 : Max. 167.82 m. Min. 155.86 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.23	0.28	72	14	45	81	184	229	10	2.36	0.89	0.56
2	0.20	0.32	79	11	43	77	189	190	9.70	2.36	0.85	0.47
3	0.18	0.48	80	9.85	39	73	166	159	9.25	2.24	0.81	0.38
4	0.18	0.45	72	11	32	63	138	146	9.25	2.00	0.78	0.41
5	0.18	0.48	67	12	25	49	120	137	9.10	1.88	0.74	0.41
6	0.16	0.50	71	15	21	35	113	95	8.80	1.94	0.78	0.53
7	0.16	0.40	137	23	19	35	112	61	8.20	1.88	0.98	0.89
8	0.14	0.32	163	35	18	65	143	44	7.75	1.94	0.85	0.56
9	0.20	0.32	145	44	17	175	181	35	7.30	1.94	0.89	0.47
10	0.14	0.37	94	42	19	244	184	30	6.80	1.76	0.85	0.44
11	0.18	0.40	58	35	20	203	138	29	5.90	1.58	0.71	0.47
12	0.18	0.32	41	33	21	158	95	26	5.30	1.70	0.98	0.63
13	0.20	0.30	33	42	21	130	80	24	5.10	2.12	1.46	0.67
14	0.20	0.59	27	47	20	115	104	22	4.72	1.64	1.35	0.56
15	0.14	2.20	24	52	17	120	240	20	4.64	1.40	1.35	0.50
16	0.14	2.82	21	54	14	160	344	18	4.37	1.25	1.52	0.50
17	0.18	2.04	18	57	12	208	369	17	4.10	1.16	1.20	0.38
18	0.18	1.53	14	70	9.40	205	385	15	3.94	1.25	1.58	0.35
19	0.14	2.82	11	103	7.30	176	412	14	3.78	1.25	1.70	0.29
20	0.11	2.04	8.95	118	8.65	136	440	14	3.70	1.16	1.40	0.26
21	0.13	24	6.80	106	12	111	459	14	3.54	1.20	1.25	0.32
22	0.95	55	5.70	89	18	96	479	13	3.38	1.16	1.07	0.26
23	0.99	126	4.64	74	28	102	500	13	3.23	1.20	1.16	0.23
24	1.04	164	5.00	66	38	162	513	13	3.16	1.20	0.85	0.26
25	0.74	178	5.70	62	60	190	523	13	3.02	1.16	0.81	0.21
26	0.64	151	6.10	59	70	192	527	12	2.95	1.12	0.74	0.21
27	0.53	163	5.30	58	68	172	520	11	2.88	1.12	0.67	0.21
28	0.35	186	13	57	65	148	445	11	2.67	1.16	0.63	0.26
29	0.35	170	21	59	66	134	370	10	2.60	1.03	0.32	0.32
30	0.32	123	18	56	79	151	311	9.85	2.57	0.98	0.25	0.25
31		85		50	81		270		2.42	0.98		0.26
Total	9.46	1,443.98	1,327.19	1,563.85	1,013.35	3,966	9,054	1,440.85	164.12	47.12	28.85	12.52
Mean	0.315	46.6	44.2	50.4	32.7	132	292	48.0	5.29	1.52	1.03	0.403
Max.	1.04	186	163	118	81	244	527	229	10	2.36	1.70	0.89
Min.	0.11	0.28	4.64	9.85	7.30	35	80	9.85	2.42	0.98	0.63	0.21
Runoff - mcm.	0.817	124.760	114.669	135.117	87.553	342.662	782.266	124.489	14.180	4.071	2.493	1.682

WATER YEAR 1960 : Max. 527 Min. 0.11 Mean 55.0 Annual Runoff 1,734.159 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	03.00	167.82	527				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHEE RIVER BASIN

Nam Phong at Ubolratana Damsite, Khon Kaen (E.31)

Location: Lat 16° - 46' - 23" N, Long 102° - 37' - 58" E, on left bank 100 meters downstream from Ubolratana Damsite, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 12,104 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +155.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.123

Location: On left bank near the gage site.
Elevation: +168.189 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 - 64

Rating Operation:

Period of Rating: 1957 - 64
Rated by Float: -
Rated by Current Meter: 1957 - 64

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

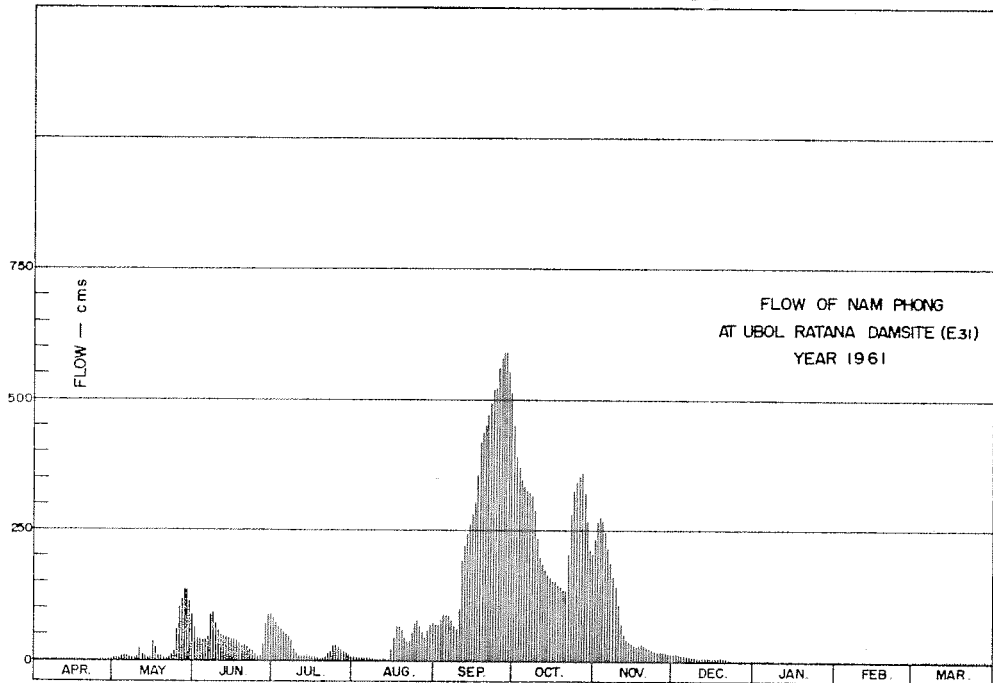
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	155.86	156.50	159.27	159.94	156.68	159.46	167.52	163.46	157.11	156.23	156.06	155.88
2	.86	.31	158.49	.73	.63	.49	.08	164.09	.09	.21	.07	.84
3	.87	.17	.38	.50	.64	.75	166.48	.28	.04	.15	.03	.84
4	.85	.74	.37	.24	.55	160.09	.11	.11	156.98	.14	.01	.84
5	.84	.80	.37	.00	.52	.19	165.89	163.72	.93	.17	.11	.83
6	155.83	156.69	158.72	158.83	156.50	159.99	165.79	163.13	156.89	156.18	156.07	155.83
7	.82	.50	160.20	.66	.45	.69	.72	162.47	.83	.13	155.98	.83
8	.81	.41	.29	.31	.41	.41	.60	.00	.79	.10	.94	.86
9	.83	.31	159.64	157.59	.37	.15	.06	161.55	.76	.12	.91	.89
10	.86	157.12	.10	.05	.33	.90	163.91	160.75	.73	.14	.97	.85
11	155.84	157.79	158.72	156.79	156.33	161.47	163.11	159.65	156.68	156.14	156.01	155.95
12	.85	.08	.67	.74	.38	163.22	162.71	158.87	.63	.15	.82	.94
13	.86	156.70	.54	.80	.37	.60	.44	.61	.09	.04	.89	
14	.84	.50	.51	.82	.34	.92	.21	.23	.59	.07	.00	.85
15	.83	.44	.45	.78	157.25	164.18	.05	.05	.56	.07	.00	.82
16	155.86	158.22	158.34	156.64	158.47	164.64	161.91	157.91	156.52	156.06	155.97	155.80
17	.89	157.74	.19	.58	159.48	165.41	.91	.85	.49	.07	.95	.87
18	.89	156.96	157.97	.50	.45	166.30	.68	.93	.48	.09	.90	.81
19	.96	.68	.79	.39	.23	.74	.57	158.85	.48	.09	.91	.76
20	.96	.47	.89	.45	158.75	.90	.42	157.90	.48	.06	.90	.78
21	155.92	156.32	157.79	156.67	158.23	167.09	161.37	157.76	156.47	156.05	155.90	155.80
22	.90	.62	.47	157.14	.11	.33	162.65	.67	.39	.00	.90	.75
23	.90	.94	.20	.38	.94	.59	164.08	.56	.33	155.98	.87	.74
24	.87	157.53	.00	.78	159.66	.69	.79	.48	.32	.98	.86	.75
25	156.02	159.15	156.84	.90	.90	.82	165.09	.43	.31	.96	.93	.74
26	155.99	160.55	156.74	157.76	159.44	168.07	165.25	157.37	156.30	155.98	155.92	155.74
27	.99	161.07	157.48	.60	158.84	.18	.36	.31	.29	.99	.94	.69
28	.97	.44	159.62	.36	.58	.19	.13	.26	.28	156.05	.93	.71
29	.95	.44	160.16	.18	159.10	.06	164.13	.22	.24	.10	.69	
30	156.37	.00	.20	.07	.63	167.86	163.16	.16	.22	.10	.66	
31		160.18		156.82	.68		162.91		.22	.04	.71	
Mean	155.90	157.69	158.48	157.58	157.85	164.04	164.00	159.55	156.58	156.09	155.97	155.80
Max.	156.37	161.44	160.29	159.94	159.90	168.19	167.52	164.28	157.11	156.23	156.11	155.95
Min.	155.81	156.17	156.74	156.39	156.33	159.15	161.37	157.16	156.22	155.96	155.86	155.66

WATER YEAR 1961 : Max. 168.19 m. Min. 155.81 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.22	6.20	62	81	8.54	67	453	232	15	3.44	2.26	1.20
2	0.22	4.10	44	74	7.89	67	410	266	14	3.28	2.32	1.00
3	0.28	2.99	41	68	8.02	75	368	277	14	2.85	2.08	1.10
4	0.20	9.36	41	61	6.85	86	345	267	13	2.78	1.96	1.10
5	0.16	10	41	55	6.46	89	332	245	12	2.99	2.57	0.80
6	0.13	8.67	49	51	6.20	82	327	216	11	3.06	2.32	1.10
7	0.10	6.20	89	47	5.60	73	323	186	11	2.71	1.80	1.30
8	0.07	5.12	93	40	5.12	65	316	162	10	2.50	1.60	0.80
9	0.13	4.10	72	24	4.70	59	289	142	9.64	2.64	1.45	1.50
10	0.22	15	57	14	4.30	79	234	109	9.22	2.78	1.75	1.10
11	0.16	28	49	10	4.30	138	200	72	8.54	2.78	1.96	1.70
12	0.20	14	47	9.36	4.80	220	185	52	7.89	2.85	2.02	1.80
13	0.22	8.80	45	10	4.70	239	174	42	7.63	2.44	2.14	1.70
14	0.16	6.20	44	10	4.40	256	165	38	7.37	2.32	1.90	1.20
15	0.13	5.48	43	9.92	17	271	159	34	6.98	2.32	1.90	0.90
16	0.22	38	40	8.02	43	299	154	31	6.46	2.26	1.75	0.90
17	0.32	27	37	7.24	67	345	154	29	6.68	2.32	1.65	1.20
18	0.32	12	32	6.20	66	402	145	31	5.96	2.44	1.40	1.00
19	0.60	8.54	28	4.90	61	433	141	34	5.96	2.44	1.45	0.90
20	0.60	5.84	30	5.60	49	445	136	31	5.96	2.26	1.40	0.80
21	0.44	4.20	28	8.41	38	460	134	27	5.84	2.20	1.40	0.80
22	0.36	7.76	21	15	35	482	199	25	4.90	1.90	1.40	0.50
23	0.36	12	20	19	54	508	280	23	4.30	1.80	1.25	0.50
24	0.28	22	13	30	72	520	325	21	4.20	1.80	1.20	0.50
25	0.90	59	11	31	79	537	343	20	4.10	1.70	1.55	0.50
26	0.76	102	9.36	27	66	570	353	19	4.00	1.80	1.50	0.50
27	0.76	121	21	24	51	587	360	18	3.92	1.85	1.60	0.40
28	0.66	137	71	19	46	588	346	17	3.84	2.20	1.55	0.40
29	0.56	137	88	16	57	532	268	16	3.52	2.50	0.40	0.40
30	3.64	118	89	14	71	498	218	15	3.36	2.50	0.20	0.20
31		85	10	73	73	206	206		3.36	2.14		0.60
Total	13.38	1,030.56	1,355.36	809.65	1,026.88	9,072	8,042	2,697	233.03	75.85	49.13	28.40
Mean	0.45	32.2	45.2	26.1	33.1	299	259	89.9	7.52	2.45	1.75	0.916
Max.	3.64	137	93	81	79	588	453	277	15	3.44	2.57	1.80
Min.	0.07	2.99	9.36	4.90	4.30	59	134	15	3.36	1.70	1.20	0.20
Runoff - mcm.	1.156	89.040	117.103	69.954	88.722	783.82	694.829	233.021	20.134	6.553	4.245	2.454

WATER YEAR 1961 : Max. 588 Min. 0.07 Mean 66.9 Annual Runoff 2,111.032 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	22.00	168.21	592				

HYDROLOGY SECTION, SURVEY DIVISION
 ROYAL IRRIGATION DEPARTMENT

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 WATER YEAR 1962
 CHEE RIVER BASIN

Nam Phong at Ubolratana Damsite, Khon Kaen (E.31)

Location: Lat 16° - 46' - 23" N, Long 102° - 37' - 58" E, on left bank 100 meters downstream from Ubolratana Damsite, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 12,104 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +155.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.123

Location: On left bank near the gage site.
 Elevation: +168.189 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 - 64

Rating operation:

Period of Rating: 1957 - 64
 Rated by Float:
 Rated by Current Meter: 1957 - 64

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

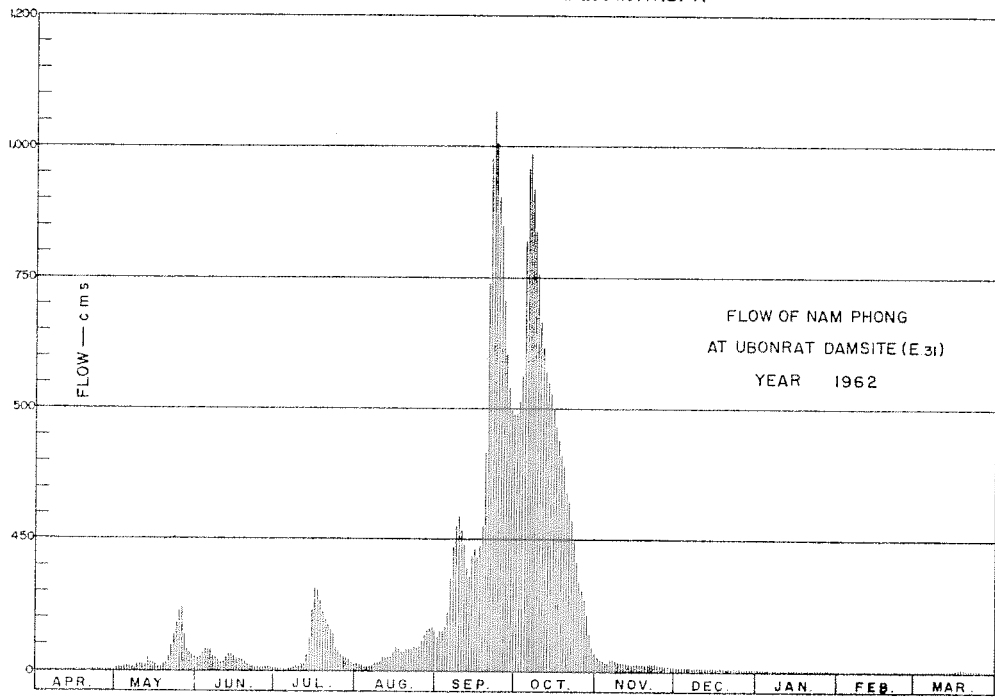
General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	155.71	156.33	157.60	156.24	156.99	159.40	167.93	158.25	157.06	156.63	156.18	156.20
2	.68	.44	.67	.15	.83	.86	.88	.08	.01	.60	.17	.19
3	.66	.38	158.11	.12	.72	.96	.91	157.91	.05	.57	.12	.17
4	.65	.39	.43	.11	.66	160.07	169.05	.79	.05	.56	.17	.14
5	.65	.57	.49	.11	.62	.58	.96	.70	.01	.55	.14	.13
6	155.67	156.63	158.11	156.09	156.65	162.32	170.86	157.86	156.99	156.55	156.19	156.10
7	.71	.53	157.77	.30	.63	164.20	169.89	158.00	.97	.52	.19	.10
8	.74	.39	.58	.50	.84	.81	.59	157.77	.95	.49	.16	.04
9	.72	157.08	.45	.60	157.10	.94	.27	.59	.97	.48	.18	.14
10	.72	156.84	.22	.65	.28	.72	.02	.52	.98	.45	.17	.10
11	155.74	156.77	157.24	156.97	157.64	164.01	168.83	157.44	156.88	156.42	156.20	156.14
12	.72	.65	.64	157.02	.64	163.20	.68	.31	.80	.41	.24	.15
13	.70	157.60	.99	.90	.63	162.72	.52	.26	.80	.41	.15	.13
14	.71	.15	.96	159.26	.72	163.24	.30	.25	.86	.43	.20	.12
15	.69	156.99	.70	161.12	158.02	.73	.01	.29	.86	.43	.13	.11
16	155.81	156.92	157.54	162.22	158.53	163.48	167.72	157.42	156.82	156.39	156.20	156.09
17	156.00	.50	.54	.10	.48	164.22	.52	.47	.78	.37	.14	.24
18	155.94	.48	.49	161.61	.15	163.17	.26	.44	.78	.37	.14	.73
19	.87	.59	.26	.01	.12	167.05	166.88	.41	.75	.35	.08	.63
20	.83	157.06	156.95	160.56	.56	169.28	.38	.39	.73	.30	.10	.44
21	155.92	157.62	156.74	160.17	158.44	170.09	165.83	157.39	156.71	156.26	156.13	156.36
22	.97	158.93	.58	159.94	.48	.42	.15	.39	.69	.26	.09	.29
23	.97	159.49	.50	.58	.54	.32	164.33	.33	.67	.24	.09	.26
24	156.19	160.04	.43	158.58	.55	.07	163.45	.26	.63	.25	.18	.23
25	.12	.86	.34	.31	.63	169.73	162.64	.22	.60	.32	.15	.19
26	156.00	161.13	156.27	158.00	158.96	169.33	162.17	157.20	156.57	156.39	156.16	156.15
27	155.96	159.75	.45	157.80	159.48	168.86	161.80	.16	.55	.36	.16	.10
28	.92	158.57	.56	.68	.93	.44	.13	.14	.55	.35	.15	.08
29	.87	.05	.38	.48	160.10	.15	160.14	.10	.60	.32	.10	.10
30	.83	157.86	.25	.28	.07	167.99	159.23	.08	.66	.25	.05	.05
31		.70		.12	159.76		158.63		.66	.25		.03
Mean	155.82	157.56	157.27	158.21	158.06	165.34	166.23	157.48	156.81	156.40	156.15	156.19
Max.	156.19	161.13	158.49	162.22	160.10	170.42	170.06	158.25	157.06	156.63	156.24	156.73
Min.	155.65	156.33	156.25	156.09	156.62	159.40	158.63	157.08	156.55	156.24	156.08	156.03

WATER YEAR 1962 : Max. 170.42 m. Min. 155.65 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	4.30	23	4.40	13	61	476	26	9.10	4.80	1.69	1.54
2	0.44	6.40	24	3.50	11	75	471	26	8.60	4.50	1.66	1.51
3	0.38	5.80	33	3.20	10	78	474	22	9.00	4.20	1.51	1.45
4	0.35	5.90	40	3.10	9.60	86	648	20	9.00	4.10	1.66	1.36
5	0.35	7.70	41	3.10	9.20	101	921	18	8.60	4.00	1.57	1.33
6	0.41	8.30	33	2.95	9.50	163	985	21	8.40	4.00	1.72	1.24
7	0.55	7.30	26	5.00	9.30	248	931	24	8.20	3.85	1.72	1.24
8	0.70	5.90	23	7.00	11	274	835	19	8.00	3.70	1.63	1.06
9	0.60	13	20	8.00	15	280	736	16	8.20	3.65	1.69	1.36
10	0.60	10	15	8.50	19	269	667	15	8.30	3.50	1.66	1.24
11	0.70	9.70	16	12	26	234	621	14	7.30	3.35	1.75	1.36
12	0.60	9.30	24	12	26	198	593	12	6.50	3.30	1.87	1.39
13	0.50	25	31	29	26	193	564	12	6.50	3.30	1.60	1.33
14	0.55	16	30	60	27	214	532	11	7.10	3.40	1.75	1.30
15	0.47	13	25	116	33	237	495	12	2.10	3.40	1.54	1.27
16	1.05	12	22	157	44	225	465	14	6.70	3.20	1.75	1.21
17	2.00	7.80	22	152	43	262	446	14	6.30	3.10	1.57	2.17
18	1.70	7.60	21	133	36	313	423	13	6.30	3.10	1.36	4.80
19	1.35	8.70	16	112	35	444	394	13	6.00	2.44	1.18	3.90
20	1.15	14	11	99	43	880	360	13	5.80	2.35	1.24	2.95
21	1.60	25	9.40	87	41	963	326	13	5.60	2.23	1.33	2.55
22	1.85	52	7.80	80	42	1,069	286	13	5.40	2.23	1.21	2.32
23	1.85	69	7.00	69	43	1,037	245	12	5.20	2.17	1.21	2.23
24	2.95	86	6.30	43	43	957	203	11	4.80	2.20	1.48	2.14
25	2.60	110	5.40	37	45	848	168	11	4.50	2.41	1.39	2.02
26	2.00	119	4.70	31	52	724	149	10	4.20	2.70	1.42	1.90
27	1.80	65	6.50	27	68	608	134	10	4.00	2.55	1.42	1.75
28	1.60	36	7.60	26	81	537	107	9.90	4.00	2.50	1.39	1.69
29	1.35	26	5.80	22	82	499	73	9.50	4.50	2.41	1.75	1.75
30	1.15	22	4.50	19	81	482	47	9.30	5.10	2.20	1.60	1.60
31		25		15	72		34		5.10	1.90		1.54
Total	33.75	832.70	561.00	1,386.75	1,105.60	12,559	13,809	443.70	203.40	96.74	42.97	56.50
Mean	1.12	26.9	18.7	44.7	35.7	419	445	14.8	6.56	3.12	1.53	1.82
Max.	2.95	119	41	157	82	1,069	985	26	9.10	4.80	1.87	4.80
Min.	0.35	4.30	4.50	2.95	9.20	61	34	9.30	4.00	1.90	1.18	1.06
Runoff - mcm	2.916	71.945	48.470	119.815	95.524	1,085.098	1,193.098	38.336	17.574	8.358	3.713	4.882

WATER YEAR 1962 : Max. 1,069 Min. 0.35 Mean 85.3 Annual Runoff 2,689.728 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 22	18.00	170.44	1,075				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
CHEE RIVER BASIN

Chee River at Ban Nong O, Chaiyaphum (E.32)

Location: Lat 15° - 54' - 20" N, Long 101° - 42' - 45" E, on left bank at Ban Nong O, 100 meters downstream from Wat Tha Sa - nga, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 2,906 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +198.21 m.(M.S.L.)

Bench Mark: B.M. - H.S. E.32

Location: At the former camp of station E.32
Elevation: +210.748 m.(M.S.L.)

Gage Reading Frequency: 24 - hourly readings at 01.00 - 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversion for irrigation above gage site.

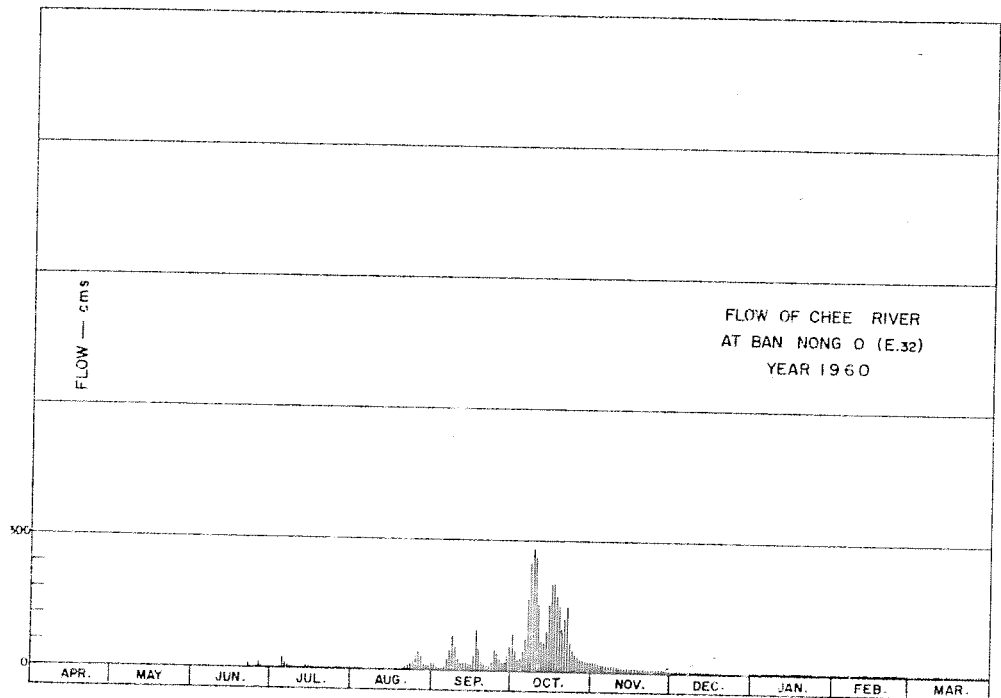
Remarks: Gage height began to record on Jun.22, 1960.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				198.93	198.90	199.49	202.55	199.94	199.04	198.87	198.80	198.75
2				.90	.88	.13	200.94	.92	.05	.87	.80	.72
3				.89	.87	.03	.02	.73	.05	.87	.79	.76
4				.93	.85	198.98	.24	.64	.03	.87	.79	.76
5				200.06	.84	199.08	.95	.58	.01	.86	.79	.74
6				199.62	198.84	199.98	202.11	199.53	199.02	198.86	198.80	198.73
7				.22	.84	200.68	205.21	.48	.02	.86	.79	.74
8				.06	.92	202.32	207.14	.43	.00	.86	.78	.74
9				198.99	.91	201.28	.80	.40	.00	.85	.78	.76
10				.94	.92	200.18	.47	.37	198.97	.85	.78	.84
11				198.91	198.90	199.52	204.86	199.33	198.96	198.84	198.78	198.95
12				.89	.89	.63	202.01	.30	.96	.84	.76	.92
13				.89	.87	.73	201.64	.27	.95	.83	.80	.91
14				199.14	.86	.42	202.24	.25	.95	.83	.75	.93
15				198.92	.86	.29	203.73	.23	.94	.83	.77	.89
16				198.88	198.85	199.73	206.08	199.21	198.94	198.83	198.77	198.92
17				.99	.96	202.81	.09	.20	.93	.83	.76	.86
18				.95	.92	200.76	205.42	.21	.93	.82	.76	.85
19				199.01	.90	199.83	203.69	.18	.92	.82	.80	.85
20				.05	.97	.52	202.72	.17	.92	.82	.80	.87
21				198.93	199.21	199.35	203.80	199.15	198.92	198.81	198.81	198.85
22			199.24	.93	.34	.26	204.72	.12	.91	.81	.81	.82
23			.00	.89	.43	.49	201.82	.10	.91	.81	.79	.79
24			.03	.89	.81	200.96	.25	.10	.91	.81	.77	.77
25			.04	.90	200.27	.62	200.62	.09	.90	.81	.77	.76
26			199.54	198.91	200.77	200.20	200.38	199.08	198.90	198.80	198.77	198.71
27			.09	.90	.22	199.63	.19	.09	.89	.80	.76	.73
28			.02	.87	199.45	.65	.05	.09	.89	.80	.75	.74
29			.01	199.00	.24	200.22	199.97	.06	.89	.80	.74	.74
30			198.96	198.95	.28	201.05	.90	.04	.88	.80	.72	.72
31				199.03	.62		.83		.87	.79		.73
Mean				199.01	199.17	200.03	202.76	199.31	198.95	198.83	198.78	198.80
Max.				200.06	200.77	202.81	207.80	199.94	199.05	198.87	198.81	198.95
Min.				198.87	198.84	198.98	199.83	199.04	198.87	198.79	198.75	198.71

WATER YEAR 1960 : Max. 207.80 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				2.98	2.24	14	85	24	5.50	1.86	0.96	0.66
2				2.24	1.98	7.30	46	23	5.70	1.86	0.96	0.48
3				2.11	1.86	5.30	25	19	5.70	1.86	0.90	0.72
4				2.98	1.60	4.21	30	17	5.30	1.86	0.90	0.72
5				26	1.47	6.30	46	16	4.90	1.73	0.90	0.60
6				17	1.47	25	73	15	5.10	1.73	0.96	0.54
7				9.10	1.47	40	165	14	5.10	1.73	0.90	0.60
8				5.98	2.73	79	247	13	4.70	1.73	0.84	0.60
9				4.45	2.49	54	279	13	4.70	1.60	0.84	0.72
10				3.22	2.73	29	263	12	3.96	1.60	0.84	1.47
11				2.49	2.24	15	153	11	3.71	1.47	0.84	3.48
12				2.11	2.11	17	71	11	3.71	1.47	0.72	2.73
13				2.11	1.86	19	62	10	3.48	1.34	0.96	2.49
14				7.50	1.73	13	77	9.70	3.48	1.34	0.66	2.98
15				2.73	1.73	10	117	9.30	3.22	1.34	0.78	2.11
16				1.98	1.60	19	199	8.90	3.22	1.34	0.78	2.73
17				4.45	3.72	92	199	8.70	2.98	1.34	0.72	1.73
18				3.48	2.73	42	173	8.90	2.98	1.22	0.72	1.60
19				4.90	2.24	21	116	8.30	2.73	1.22	0.96	1.60
20				5.70	3.96	15	89	8.10	2.73	1.22	0.96	1.86
21				2.98	8.90	12	119	7.70	2.73	1.09	1.09	1.60
22			9.50	2.98	11	9.90	148	7.10	2.49	1.09	1.09	1.22
23			4.70	2.11	13	14	66	6.70	2.49	1.09	0.90	0.90
24			5.30	2.11	21	46	53	6.70	2.49	1.09	0.78	0.72
25			5.50	2.24	31	39	39	6.50	2.24	1.09	0.78	0.66
26			15	2.49	42	29	33	6.30	2.24	0.96	0.78	0.42
27			6.50	2.24	30	17	29	6.50	2.11	0.96	0.72	0.54
28			5.10	1.86	14	18	26	6.50	2.11	0.96	0.66	0.60
29			4.90	4.70	9.50	30	24	5.90	2.11	0.96	0.60	0.60
30			3.72	3.48	10	48	23	5.50	1.98	0.96	0.48	0.48
31				5.30	17		21		1.86	0.90		0.54
Total				145.92	251.33	790.01	3,096	325.30	107.75	42.01	23.90	38.70
Mean				4.71	8.11	26.3	99.9	10.8	3.48	1.35	0.85	1.25
Max.				26	42	92	279	24	5.70	1.86	1.09	3.48
Min.				1.86	1.47	4.21	21	5.50	1.86	0.90	0.66	0.42
Runoff - mcm.				12.607	21.715	68.257	267.494	28.106	9.310	3.630	2.055	3.544

WATER YEAR 1960 : Max. 279 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	22.00	207.84	282				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHEE RIVER BASIN

Chee River at Ban Nong 0, Chaiyaphum (E.32)

Location: Lat 15° - 54' - 20" N, Long 101° - 42' - 45" E, on left bank at Ban Nong 0, 100 meters downstream from Wat Tha Sa-nga, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 2,906 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +198.21 m.(M.S.L.)

Bench Mark: B.M. - H.S. E.32

Location: At the former camp of station E.32

Elevation: +210.748 m.(M.S.L.)

Gage Reading Frequency: 24 - hourly readings at 01.00 - 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

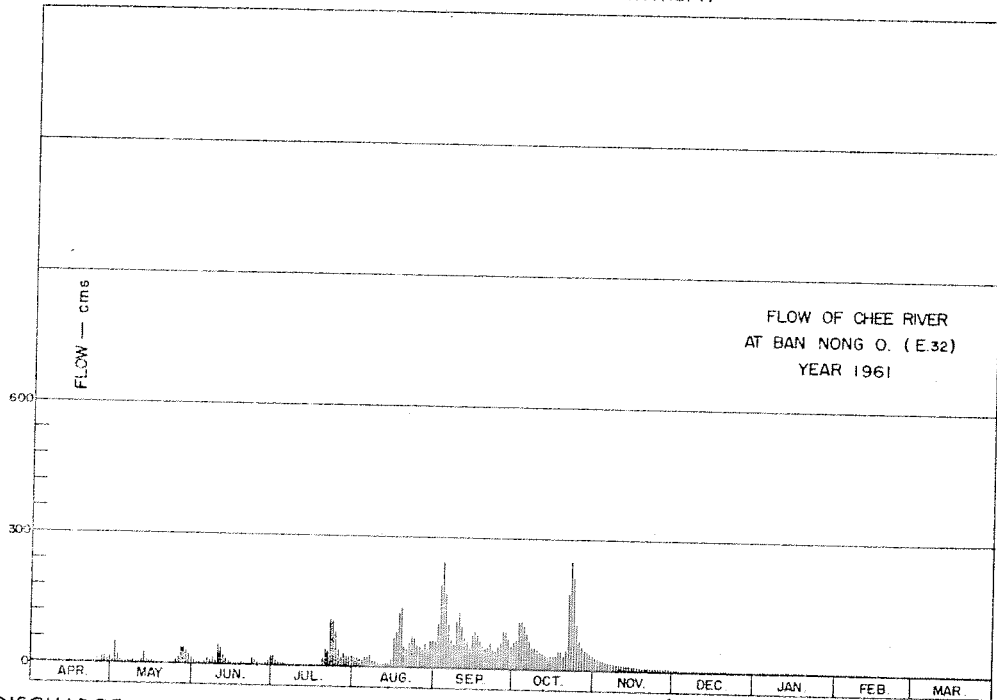
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.72	199.07	199.19	199.79	200.66	201.54	201.60	200.17	199.01	198.82	198.74	198.68
2	.71	200.86	.07	.29	199.67	203.45	.87	.04	.00	.81	.74	.68
3	.69	199.63	.00	.20	.60	205.70	203.22	199.94	198.98	.81	.74	.68
4	.67	.61	198.96	.13	.72	206.89	.51	.82	.97	.81	.75	.68
5	.71	198.94	199.03	.05	.92	205.51	202.86	.74	.96	.82	.75	.68
6	198.70	198.91	199.54	198.99	199.88	202.92	202.44	199.69	198.95	198.82	198.75	198.68
7	.70	.90	.11	.96	200.03	201.55	201.43	.62	.94	.82	.71	.67
8	.69	.88	.32	.94	199.48	.25	200.90	.56	.93	.81	.72	.68
9	.69	199.10	.23	.94	.32	203.40	.99	.52	.92	.81	.72	.68
10	.69	198.98	.82	.94	.23	.94	.96	.48	.92	.80	.71	.68
11	198.68	198.97	200.59	198.97	199.21	202.89	200.58	199.43	198.91	198.80	198.72	198.68
12	.68	199.03	199.82	199.01	.18	.10	.55	.39	.91	.79	.72	.67
13	.67	.96	.41	.02	.16	201.46	.35	.37	.90	.79	.72	.67
14	.67	.24	.19	198.98	.11	.19	.11	.33	.90	.79	.71	.68
15	.69	.12	.07	199.02	.60	202.17	.28	.30	.89	.78	.71	.83
16	198.70	199.03	199.00	198.97	201.87	202.44	200.34	199.29	198.89	198.78	198.70	198.73
17	.68	198.96	198.98	.94	202.29	201.94	.36	.29	.88	.78	.70	.70
18	.96	.90	199.02	.96	203.43	.54	.75	.26	.88	.77	.69	.69
19	.86	.87	.11	.97	204.43	.12	.64	.22	.88	.77	.69	.70
20	.76	.86	.61	199.83	201.26	200.81	.28	.19	.87	.77	.70	.70
21	198.73	198.85	198.96	200.98	200.68	200.39	201.12	199.16	198.87	198.77	198.69	198.68
22	.76	.83	199.09	.62	201.38	201.27	205.51	.14	.86	.76	.69	.67
23	.74	.83	.58	203.22	.92	200.72	206.88	.12	.86	.76	.69	.66
24	.73	.88	.32	.15	.77	.73	205.95	.10	.85	.75	.70	.68
25	.69	199.03	.07	202.39	.13	201.13	203.11	.09	.85	.75	.69	.68
26	198.87	199.55	199.01	200.61	200.92	201.54	201.65	199.07	198.85	198.75	198.69	198.67
27	199.57	200.46	.02	199.87	.67	202.43	.13	.05	.84	.75	.69	.66
28	.71	.56	.13	200.11	201.21	.39	200.83	.04	.84	.74	.68	.65
29	.09	.11	.11	199.92	200.87	201.69	.69	.03	.83	.74	.65	.65
30	198.80	199.87	.81	.85	201.52	.03	.55	.03	.83	.74	.65	.65
31		.41	.90	.53			.40		.82	.74		.65
Mean	198.80	199.23	199.25	199.75	200.66	202.25	201.67	199.38	198.90	198.78	198.71	198.68
Max.	199.71	200.86	200.59	203.22	204.43	206.89	206.88	200.17	199.01	198.82	198.74	198.83
Min.	198.67	198.83	198.96	198.94	198.11	200.72	200.11	198.63	198.82	198.72	198.68	198.65

WATER YEAR 1961 : Max. 206.88 m. Min. 198.67 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.51	7.27	9.99	23	29	63	65	31	6.57	2.47	1.31	0.64
2	0.43	47	7.27	12	20	114	71	28	6.40	2.28	1.31	0.64
3	0.32	19	5.33	10	19	189	108	26	5.93	2.28	1.31	0.64
4	0.25	5.61	4.38	8.73	21	244	116	23	5.69	2.28	1.18	0.64
5	0.43	3.91	6.16	6.71	25	171	97	21	5.46	2.47	1.18	0.64
6	0.36	3.20	17	5.09	25	99	86	20	5.22	2.47	1.18	0.64
7	0.36	2.96	8.31	4.38	28	64	61	19	4.98	2.47	0.93	0.56
8	0.32	2.59	18	3.91	16	56	48	18	4.75	2.28	1.06	0.64
9	0.32	8.10	11	3.91	13	113	50	17	4.51	2.28	1.06	0.64
10	0.32	4.86	46	3.91	11	129	49	16	4.51	2.08	0.93	0.64
11	0.29	4.62	41	4.62	10	98	40	15	4.28	2.08	1.06	0.64
12	0.29	6.16	23	5.61	9.78	77	40	14	4.28	1.95	1.06	0.56
13	0.25	26	15	5.88	9.36	61	35	14	4.04	1.95	1.06	0.56
14	0.25	11	9.99	4.86	8.31	55	30	13	4.04	1.95	0.93	0.64
15	0.32	8.52	7.27	5.88	19	79	34	12	3.84	1.82	0.93	2.67
16	0.36	6.16	5.33	4.62	71	86	35	12	3.84	1.82	0.80	1.18
17	0.29	4.38	4.86	3.91	82	73	35	12	3.65	1.82	0.80	0.80
18	4.38	2.96	5.88	4.38	130	63	44	11	3.65	1.70	0.72	0.72
19	2.22	2.40	8.31	4.62	139	53	42	11	3.65	1.70	0.72	0.80
20	0.80	2.22	5.61	23	57	46	34	9.80	3.45	1.70	0.80	0.80
21	0.58	2.03	4.38	50	43	48	53	9.36	3.45	1.70	0.72	0.64
22	0.80	1.66	7.82	41	59	57	171	8.94	3.26	1.57	0.72	0.54
23	0.66	1.66	18	108	73	44	247	8.52	3.26	1.57	0.72	0.48
24	0.58	2.59	13	106	69	44	198	8.18	3.06	1.44	0.80	0.64
25	0.32	6.16	7.27	85	53	53	109	7.93	3.06	1.44	0.72	0.64
26	1.40	17	5.61	41	48	63	66	7.59	3.06	1.44	0.72	0.56
27	1.10	38	5.88	24	43	86	55	7.25	2.86	1.44	0.72	0.48
28	21	40	8.73	30	55	85	46	7.08	2.86	1.31	0.64	0.40
29	7.82	30	8.31	25	47	67	43	6.91	2.67	1.31		0.40
30	1.10	24	23	24	63	51	40	6.91	2.67	1.31		0.40
31		15	25	25	63		36		2.47	1.31		0.40
Total	66.33	357.02	361.69	708.02	1,358.45	2,531	2,177	421.58	128.42	57.69	26.09	21.29
Mean	2.21	11.5	12.0	22.8	43.8	84.4	70.2	14	4.04	1.86	0.93	0.69
Max.	21	47	46	108	139	244	247	31	6.57	2.47	1.31	2.67
Min.	0.25	1.66	4.38	3.91	8.31	44	30	6.91	2.47	1.31	0.64	0.40
Runoff - mcm.	5.731	30.846	31.250	61.173	117.370	218.678	188.093	36.424	10.856	4.984	2.254	1.839

WATER YEAR 1961 : Max. 247 Min. 0.25 Mean 22.5 Annual Runoff 709.480 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 23	18.00	206.95	246	Apr. 25	17.00	198.65	0.18

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHEE RIVER BASIN

Chee River at Ban Nong O, Chaiyaphum (E.32)

Location: Lat $15^{\circ} - 54' - 20''$ N, Long $101^{\circ} - 42' - 45''$ E, on left bank at Ban Nong O, 100 meters downstream from Wat Tha Sa-nga, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 2,906 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +198.21 m.(M.S.L.)

Bench Mark: B.M. - H.S. E.32

Location: At the former camp of station E.32
Elevation: +210.748 m.(M.S.L.)

Gage Reading Frequency: 24 - hourly readings at 01.00 - 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Unstable, no shifting adjustment but periodic rating are used for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elev. +210.39 m.(M.S.L.) but is not included for flow computation.

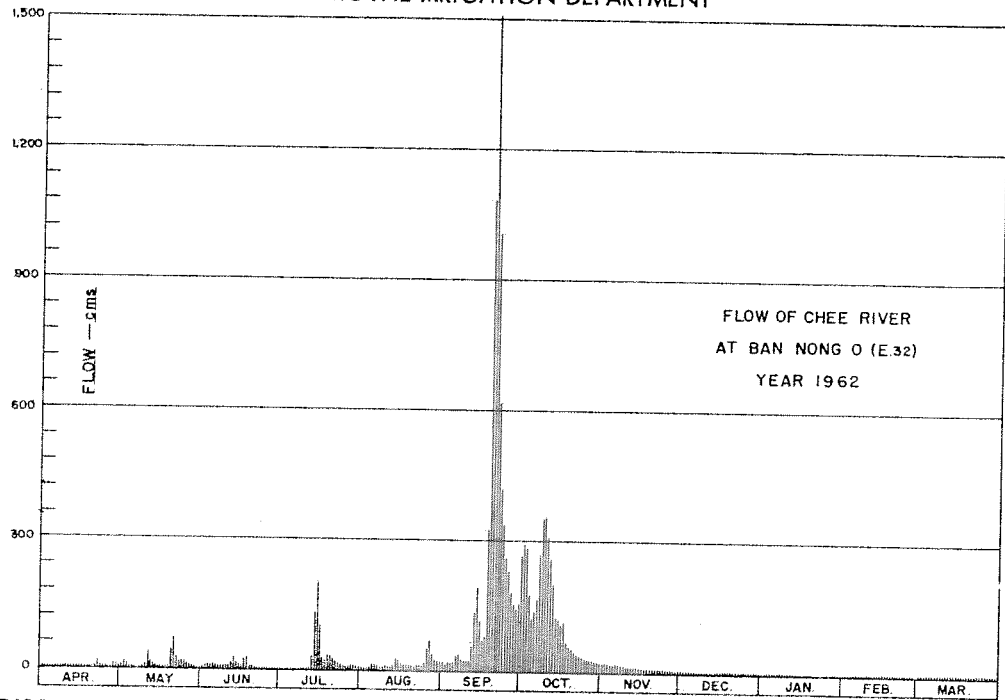
General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.64	199.05	198.85	198.72	198.99	199.53	206.70	199.97	199.21	199.01	198.88	198.85
2	.63	.26	.96	.71	.95	.44	207.70	.95	.20	.00	.88	.83
3	.66	.12	199.15	.71	.93	.54	.57	.89	.19	.00	.87	.82
4	.64	198.89	.01	.70	199.06	.49	205.83	.85	.17	198.99	.87	.82
5	.64	.84	.07	.70	.32	.54	203.64	.85	.16	.99	.87	.82
6	198.64	198.77	199.00	198.70	199.30	200.11	204.08	199.89	199.15	198.98	198.87	198.82
7	.64	.74	198.97	.73	.14	.27	.85	.78	.14	.97	.87	.82
8	.63	.73	.92	.80	.08	199.80	207.18	.78	.13	.97	.87	.83
9	.63	.85	.95	.82	.07	.69	208.39	.68	.12	.96	.87	.83
10	.64	199.03	199.10	.77	.18	.68	.81	.64	.12	.96	.87	.83
11	198.68	200.33	198.87	198.75	199.07	199.69	208.39	199.60	199.12	198.96	198.86	198.85
12	.65	199.41	199.45	.84	.12	200.93	207.40	.57	.11	.95	.85	.87
13	.64	.12	.84	199.93	.31	202.76	205.76	.54	.10	.95	.86	.91
14	.63	.03	.33	203.82	.79	205.52	203.65	.52	.09	.94	.86	.88
15	.64	198.91	.11	205.73	.69	204.26	.52	.50	.09	.94	.86	.92
16	198.75	198.92	199.00	202.94	199.42	202.05	203.05	199.47	199.09	198.92	198.86	198.87
17	.74	.88	.75	200.26	.32	201.90	.25	.44	.08	.94	.86	.87
18	.67	.81	.80	199.68	.24	208.25	201.90	.42	.07	.93	.84	.85
19	.66	199.08	198.99	200.24	.18	211.06	.47	.40	.06	.93	.86	.85
20	.74	200.64	.91	.14	.18	.43	.20	.38	.06	.92	.85	.84
21	198.90	201.57	198.90	199.87	199.00	210.98	201.00	199.37	199.05	198.92	198.86	198.86
22	199.34	199.96	.87	.59	.28	.32	200.82	.35	.05	.92	.85	.86
23	198.90	.34	.84	.38	.15	209.44	.68	.33	.04	.91	.85	.89
24	.85	.49	.82	.26	.16	208.42	.56	.31	.94	.91	.84	.87
25	.80	.45	.79	.17	.57	207.04	.46	.29	.05	.89	.84	.92
26	198.77	199.18	198.77	199.14	200.88	205.71	200.37	199.28	199.03	198.90	198.84	198.85
27	.80	.04	.75	.19	201.46	.34	.28	.27	.02	.90	.85	.82
28	199.19	198.98	.74	.34	200.27	204.62	.20	.25	.02	.89	.83	.87
29	.13	.91	.74	.23	199.78	.19	.13	.23	.01	.83	.83	.95
30	198.88	.86	.74	.10	.63	.48	.06	.22	.01	.89	.87	.87
31		.82	.30	.30	.56		.02		.61	.88	.84	.84
Mean	198.76	199.23	198.03	198.68	199.42	203.86	203.51	199.53	199.08	198.94	198.86	198.86
Max.	199.34	201.57	198.84	205.73	201.46	211.43	208.81	199.97	199.21	199.01	198.88	198.95
Min.	198.63	198.73	198.74	198.70	198.93	199.44	200.02	199.27	199.01	198.88	198.83	198.82

WATER YEAR 1962 : Max. 211.43 m. Min. 198.63 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.32	8.35	3.02	1.10	7.10	19	264	21	6.08	3.05	1.52	1.07
2	0.24	13	6.50	0.95	6.00	17	293	20	5.90	2.90	1.52	1.07
3	0.48	9.84	10	0.95	5.48	19	286	19	5.75	2.90	1.43	0.98
4	0.32	4.46	7.51	0.80	8.56	18	175	18	5.45	2.78	1.43	0.98
5	0.32	3.26	8.77	0.80	14	19	125	18	5.30	2.78	1.43	0.98
6	0.32	1.85	7.30	0.80	14	33	140	19	5.15	2.66	1.43	0.98
7	0.32	1.40	6.70	1.25	10	37	167	17	5.00	2.54	1.43	0.98
8	0.24	1.25	5.22	2.30	8.98	26	267	17	4.85	2.54	1.43	1.07
9	0.24	3.50	6.00	2.78	8.77	25	351	15	4.70	2.42	1.43	1.07
10	0.32	7.95	9.40	1.85	11	23	358	14	4.70	2.42	1.43	1.07
11	0.64	39	6.70	1.55	8.77	23	309	13	4.70	2.42	1.34	1.25
12	0.40	16	17	3.26	0.84	54	258	13	4.55	2.30	1.34	1.43
13	0.32	9.84	26	29	14	135	201	12	4.40	2.30	1.34	1.82
14	0.24	7.95	14	137	25	192	125	12	4.25	2.18	1.34	1.52
15	0.32	4.96	9.62	202	23	117	124	11	4.25	2.18	1.34	1.94
16	1.55	5.22	7.30	104	16	71	106	11	4.25	1.94	1.34	1.43
17	1.40	4.22	24	28	14	81	112	10	4.10	2.18	1.34	1.43
18	0.56	2.54	26	23	12	325	69	9.96	3.95	2.06	1.16	1.25
19	0.48	7.98	7.10	36	11	1,082	57	9.60	3.80	2.06	1.34	1.25
20	1.40	47	4.96	33	11	1,509	49	9.24	3.80	1.94	1.34	1.16
21	4.70	72	4.70	27	7.30	1,009	46	9.06	3.65	1.94	1.34	1.34
22	15	29	3.98	20	15	616	41	8.70	3.65	1.94	1.25	1.34
23	4.70	15	3.26	15	10	418	38	8.34	3.50	1.82	1.25	1.61
24	3.50	18	2.78	13	11	336	35	7.98	3.50	1.82	1.16	1.43
25	2.30	17	2.15	11	20	260	32	7.52	3.35	1.61	1.16	1.94
26	1.85	11	1.85	10	53	199	30	7.34	3.35	1.70	1.16	1.25
27	2.30	8.14	1.55	11	69	185	28	7.16	3.20	1.70	1.07	0.98
28	11	6.90	1.40	15	37	154	26	6.80	3.20	1.61	1.07	1.43
29	10	4.96	1.40	12	25	144	25	6.44	3.05	1.52	1.07	2.30
30	4.22	3.74	1.40	9.40	21	154	23	6.26	3.05	1.61	1.07	1.43
31		2.78		7.95	20		22		3.05	1.52		1.16
Total	70.00	388.05	237.57	761.72	524.80	7,298	4,182	364.40	131.48	67.34	37.16	40.94
Mean	2.33	12.5	7.92	24.6	16.9	243	135	12.1	4.24	2.17	1.33	1.32
Max.	15	72	26	202	69	1,509	358	21	6.08	3.05	1.52	2.30
Min.	0.24	1.25	1.40	0.80	5.48	17	22	6.26	3.05	1.52	1.07	0.98
Runoff - BCM.	6.048	33.527	20.526	65.813	45.343	630.547	361.325	31.484	11.360	5.818	3.211	3.537

WATER YEAR 1962 : Max. 1,509 Min. 0.24 Mean 38.6 Annual Runoff 1,218.539 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 20	02.00	211.48	1,581				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
CHEE RIVER BASIN

Nam Yang at Ban Nong Saeng Tha, Roi Et (E.35A)

Location: Lat 16°-19' - 31" N, Long 104°-01' - 17" E, on left bank, 1 kilometer south - east of Ban Nong Saeng Thung, 2 kilometers south - west of Ban Nong Doen, Amphoe Phon Thong, Roi Et.

Drainage Area: 2,061 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.97 m.(M.S.L.)

Bench Mark: B.M. - H.S. E.35A

Location: Infront of the camp of station E.35A
Elevation: +143.700 m.(M.S.L.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1961 to date.

Rating Operation:

Period of Rating: 1961 to date.

Rated by Float: -

Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elev. +142.30 m.(M.S.L.) and is included for flow computation.

General Description: Records fair. The data presented is made by discharge measurements during 1961. No state diversion for irrigation above gage site.

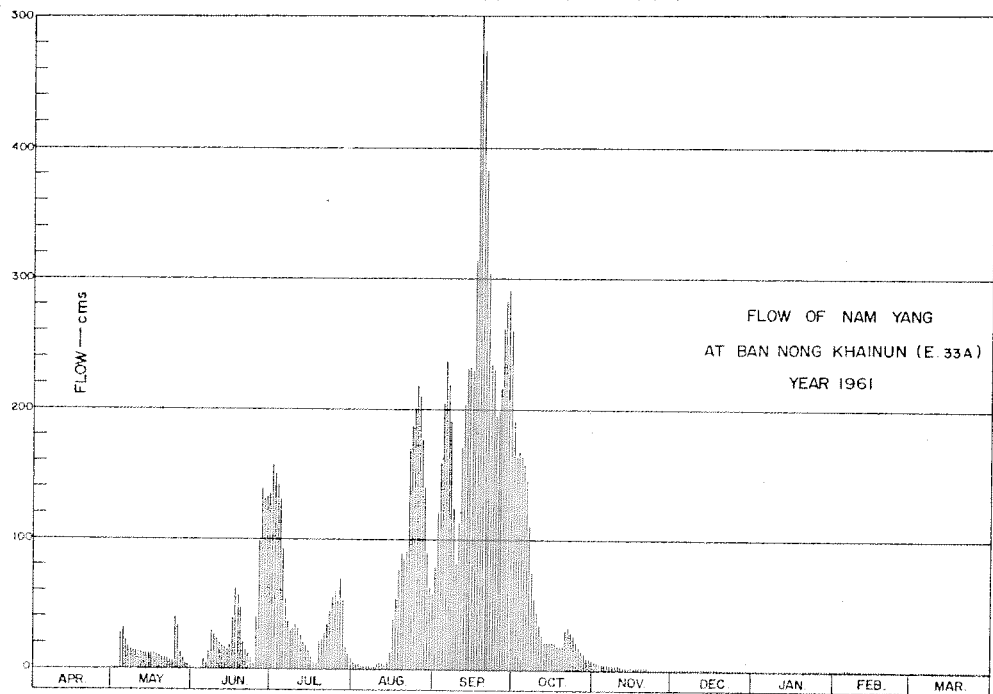
Remarks: Gage height record began on May 1, 61.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		134.49	134.81	139.93	135.10	138.47	141.10	135.39	134.83	134.65	134.63	134.53
2		.49	.73	.72	.03	139.75	140.67	.31	.83	.64	.63	.60
3		.49	.68	.56	.00	140.55	141.06	.27	.82	.64	.60	.53
4		136.20	.70	.27	134.92	141.21	140.99	.23	.81	.63	.57	.54
5		.33	135.26	138.34	.88	.69	.85	.26	.80	.64	.56	.54
6		135.94	135.01	137.21	134.92	141.57	140.42	135.22	134.77	134.65	134.55	134.52
7		.65	.55	136.51	.91	.04	139.47	.16	.77	.65	.56	.52
8		.62	136.28	.21	.87	140.03	138.32	.14	.76	.63	.60	.56
9		.59	.09	.39	.92	138.62	137.60	.13	.75	.63	.58	.52
10		.55	135.96	.47	135.05	139.71	.22	.08	.75	.63	.59	.52
11		135.51	135.83	136.36	135.08	140.93	136.76	135.07	134.74	134.63	134.59	134.52
12		.51	.76	.05	.04	141.37	.47	.03	.73	.64	.58	.56
13		.49	.70	135.88	134.98	.70	.23	.05	.72	.62	.58	.56
14		.48	.64	.72	135.07	.71	.23	.02	.73	.61	.58	.54
15		.48	.86	.57	.51	.66	.27	134.99	.72	.60	.58	.53
16		135.48	136.61	135.27	136.17	142.44	136.23	134.98	134.71	134.65	134.56	134.53
17		.48	137.44	.07	.77	143.25	.16	.97	.71	.64	.55	.59
18		.44	.45	.02	137.46	.47	.03	.96	.71	.64	.54	.60
19		.37	136.84	.92	.87	.35	135.91	.95	.70	.59	.52	.62
20		.30	135.84	.96	.69	142.96	.93	.93	.70	.58	.54	.57
21		135.30	135.58	136.24	137.85	142.52	136.51	134.93	134.68	134.58	134.54	134.54
22		.26	.48	.45	139.87	141.59	.58	.91	.72	.59	.54	.53
23		.15	.29	.80	140.29	.42	.41	.88	.68	.59	.54	.54
24		.17	.15	137.18	.73	140.69	.32	.87	.69	.58	.54	.52
25		136.65	136.79	.41	141.14	.68	.11	.86	.66	.61	.56	.50
26		136.40	138.67	137.08	141.10	141.04	135.93	134.85	134.68	134.65	134.56	134.51
27		135.47	139.71	136.56	140.65	.71	.71	.86	.67	.61	.54	.50
28		.31	.40	.03	137.76	.98	.61	.85	.66	.56	.52	.51
29		.07	.33	135.73	138.48	142.08	.54	.84	.66	.58	.50	.50
30		134.96	.44	.44	137.72	141.76	.49	.84	.65	.62	.46	.46
31		.86	.26	.26	.38	.45	.45	.67	.62	.62	.49	.49
Mean		135.43	136.36	136.66	136.91	141.36	137.11	135.03	134.72	134.62	134.56	134.54
Max.		136.65	139.71	139.93	141.14	143.47	141.10	135.39	134.83	134.65	134.63	134.62
Min.		134.49	134.68	135.02	134.87	138.47	135.43	134.84	134.65	134.56	134.52	134.48

WATER YEAR 1961 : Max. 143.47 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.01	2.32	158	6.56	79	191	7.85	1.49	0.42	0.18	0.01
2		0.01	1.36	149	5.50	122	163	6.47	1.49	0.38	0.18	0.13
3		0.01	0.88	143	5.08	158	168	5.89	1.42	0.38	0.13	0.10
4		29	1.00	131	3.96	205	164	5.32	1.35	0.34	0.08	0.11
5		33	9.08	93	3.40	237	157	5.75	1.28	0.38	0.06	0.11
6		23	4.94	56	3.96	218	145	5.17	1.08	0.42	0.05	0.06
7		17	15	37	3.82	179	111	4.41	1.08	0.42	0.06	0.06
8		16	31	30	3.28	122	74	4.16	1.02	0.34	0.13	0.10
9		15	27	33	3.96	75	54	4.04	0.96	0.34	0.10	0.03
10		15	24	35	5.78	113	44	4.66	0.96	0.18	0.11	0.03
11		14	21	33	6.20	172	33	3.39	0.89	0.18	0.11	0.03
12		14	19	27	5.64	204	27	2.99	0.83	0.22	0.10	0.10
13		13	18	22	4.80	231	22	2.99	0.76	0.16	0.10	0.13
14		13	16	19	6.06	232	22	2.89	0.83	0.15	0.10	0.10
15		13	21	15	14	229	23	2.62	0.76	0.13	0.10	0.08
16		13	40	9.62	34	299	22	2.53	0.70	0.26	0.06	0.08
17		13	63	6.06	55	451	20	2.44	0.70	0.22	0.05	0.18
18		12	63	5.36	77	500	19	2.35	0.70	0.22	0.03	0.22
19		11	46	23	91	473	18	2.27	0.64	0.11	0.01	0.30
20		9.80	21	24	85	383	19	2.09	0.64	0.10	0.03	0.15
21		9.80	15	29	90	310	31	2.09	0.53	0.10	0.03	0.10
22		9.80	13	35	170	234	33	1.92	0.76	0.10	0.03	0.10
23		7.10	9.62	45	184	230	29	1.71	0.53	0.11	0.03	0.10
24		7.46	4.80	56	201	195	27	1.64	0.57	0.10	0.03	0.06
25		41	40	61	218	196	22	1.56	0.46	0.15	0.06	0.03
26		34	99	53	210	218	19	1.49	0.53	0.26	0.06	0.05
27		13	139	70	182	262	15	1.56	0.50	0.15	0.03	0.03
28		9.98	131	52	140	282	13	1.49	0.46	0.06	0.01	0.05
29		5.78	134	18	87	290	10	1.56	0.46	0.10		0.03
30		4.24	138	13	65	260	9.30	1.56	0.42	0.16		0.01
31		2.92		9.26	58		8.40		0.50	0.16		0.01
Total		418.92	1,170	1,490.30	2,029	7,161	1,712.70	96.86	25.30	6.81	2.05	2.66
Mean		13.5	39	48.1	65.4	239	55.2	3.23	0.82	0.22	0.07	0.08
Max.		41	139	158	218	500	191	7.85	1.49	0.42	0.18	0.30
Min.		0.01	0.88	5.36	3.28	75	8.40	1.49	0.42	0.06	0.01	0.01
Runoff - mcm.		36.195	101.088	128.762	175.306	618.710	147.977	8.369	2.186	0.588	0.177	0.230

WATER YEAR 1961 : Max. 500 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 17	19.00	143.54	508				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
CHEE RIVER BASIN

Nam Yang at Ban Nong Saeng Tha, Roi Et (E.33A)

Location: Lat 16° - 19' - 31" N, Long 104° - 01' - 17" E, on right bank, 1 kilometer south - east of Ban Nong Saeng Thung, 2 kilometers south - west of Ban Nong Doen, Amphoe Phon Thong, Roi Et.

Drainage Area: 2,061 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.97 m.(M.S.L.)

Bench Mark: B.M. - H.S. E.33A

Location: Infront of the camp of station E.33A

Elevation: +143.700 m.(M.S.L.)

Gage Reading Frequency: 24 - hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1961 to date.

Rating Operation:

Period of Rating: 1961 to date.

Rated by Float: -

Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

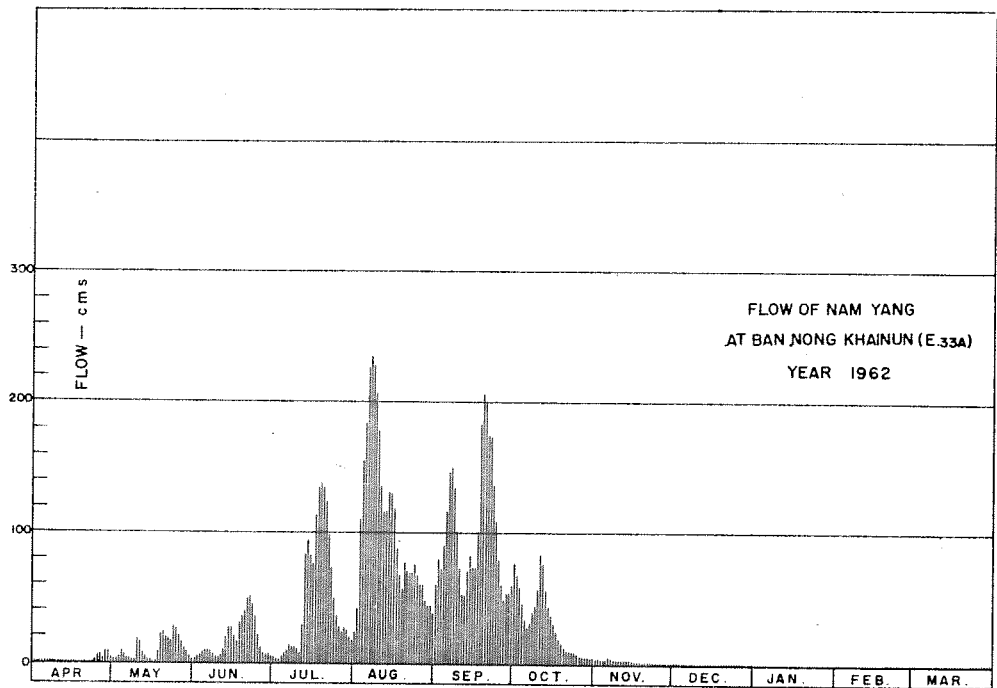
General Description: Records fair. The data presented is made by discharge measurements during 1962. No state diversion for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.48	134.86	134.93	134.99	135.99	137.85	138.19	135.17	134.85	134.70	134.66	134.63
2	.47	.92	135.09	.91	136.72	138.31	137.92	.19	.84	.71	.65	.63
3	.49	135.08	.14	.90	138.84	.02	.54	.23	.83	.70	.64	.63
4	.48	.36	.34	135.12	140.39	.46	.12	.19	.83	.70	.62	.63
5	.48	.13	.42	.34	.98	139.26	136.69	.18	.82	.76	.60	.62
6	134.50	134.98	135.42	135.37	141.92	140.12	136.41	135.74	134.81	134.69	134.60	134.61
7	.49	.98	.31	.64	142.02	.23	.48	.20	.82	.67	.60	.61
8	.47	.85	.15	.51	141.93	139.86	.82	.13	.81	.67	.60	.61
9	.47	.78	.03	.62	.63	138.93	.99	.12	.80	.71	.62	.61
10	.47	135.84	134.99	.45	140.96	.06	137.38	.09	.79	.68	.62	.62
11	134.47	135.74	135.17	135.24	139.99	137.36	138.35	135.07	134.80	134.69	134.61	134.61
12	.47	.22	.51	136.22	.44	.30	.12	.05	.80	.69	.61	.60
13	.48	.04	.99	138.51	.51	138.08	137.40	.03	.78	.67	.63	.60
14	.48	134.90	136.27	.89	.57	.43	136.95	.05	.78	.65	.62	.61
15	.48	.81	.25	.25	.52	.14	.70	.02	.76	.64	.60	.62
16	134.48	134.76	135.94	138.26	139.19	137.89	136.44	135.00	134.77	134.66	134.60	134.62
17	.48	.74	.74	139.38	138.41	138.72	.19	.00	.77	.66	.59	.62
18	.47	135.29	136.40	.90	137.71	140.99	135.97	134.98	.77	.67	.60	.61
19	.47	136.02	.74	140.19	.30	141.29	.79	.97	.77	.67	.58	.60
20	.53	.11	.79	.09	.95	.19	.66	.94	.84	.66	.59	.59
21	134.48	135.88	137.19	139.62	137.70	140.98	135.57	134.94	134.78	134.55	134.58	134.60
22	.51	.84	.26	138.84	.67	.94	.53	.93	.75	.66	.59	.61
23	.59	.82	136.98	137.94	.69	.05	.49	.93	.74	.67	.60	.64
24	.91	136.32	.59	.15	.91	139.26	.46	.91	.75	.67	.65	.68
25	135.13	.20	.00	136.71	.72	138.30	.40	.90	.74	.68	.57	.64
26	135.17	135.97	135.93	136.34	137.45	137.62	135.34	134.90	134.73	134.66	134.65	134.65
27	134.98	.75	.26	.16	.45	.21	.29	.89	.73	.63	.64	.67
28	135.37	.49	.19	.31	.12	.44	.26	.87	.75	.63	.54	.66
29	.28	.29	.16	.17	136.93	.43	.24	.86	.73	.65	.66	.66
30	134.99	.10	.08	135.96	.95	.72	.21	.86	.70	.66	.60	.60
31		134.97		.79	.67		.20		.70	.66		.67
Mean	134.63	135.36	135.76	136.93	138.75	138.85	136.39	135.03	134.78	134.67	134.61	134.63
Max.	135.37	136.32	137.26	140.19	142.02	141.29	138.35	135.24	134.85	134.76	134.66	134.68
Min.	134.47	134.74	134.93	134.90	135.99	137.21	135.20	134.86	134.70	134.63	134.57	134.59

WATER YEAR 1962 : Max. 142.02 m. Min. 134.47 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	2.50	3.29	4.07	24	69	76	3.90	1.21	0.35	0.21	0.11
2	0.04	3.16	5.46	3.05	42	80	67	4.13	1.14	0.39	0.19	0.11
3	0.07	5.32	6.16	2.90	103	72	57	3.78	1.08	0.33	0.17	0.09
4	0.05	9.24	8.96	5.88	156	90	45	3.31	1.08	0.33	0.12	0.09
5	0.05	6.02	10	8.96	184	116	33	3.20	1.02	0.55	0.10	0.08
6	0.09	3.94	10	9.38	227	146	27	5.19	0.95	0.30	0.10	0.07
7	0.07	3.94	8.54	14	235	150	31	4.65	1.02	0.26	0.10	0.07
8	0.04	2.40	6.30	12	228	134	39	3.78	0.95	0.26	0.10	0.07
9	0.04	1.76	4.62	13	207	101	44	3.08	0.89	0.35	0.12	0.07
10	0.04	18	4.07	11	171	73	55	2.80	0.82	0.28	0.12	0.08
11	0.04	16	6.58	7.56	133	53	83	2.61	0.89	0.30	0.11	0.07
12	0.04	7.28	12	29	115	52	76	2.42	0.89	0.30	0.11	0.06
13	0.05	4.76	21	83	117	71	55	2.23	0.76	0.23	0.11	0.06
14	0.05	2.90	27	94	131	82	43	2.42	0.76	0.19	0.10	0.07
15	0.05	2.01	27	80	129	73	36	2.14	0.68	0.17	0.08	0.08
16	0.05	1.61	20	75	118	73	30	1.99	0.72	0.21	0.08	0.08
17	0.05	1.45	16	114	88	98	24	1.99	0.72	0.21	0.07	0.08
18	0.04	8.26	30	135	67	183	18	1.84	0.72	0.23	0.08	0.07
19	0.04	22	39	138	56	206	15	1.77	0.68	0.23	0.06	0.06
20	0.22	24	40	135	77	200	12	1.55	1.08	0.21	0.07	0.05
21	0.05	19	50	123	70	174	10	1.55	0.72	0.19	0.06	0.06
22	0.13	18	52	98	69	173	9.89	1.47	0.60	0.21	0.07	0.07
23	0.49	17	45	71	69	136	9.21	1.47	0.55	0.23	0.08	0.10
24	3.03	28	35	49	76	108	8.70	1.34	0.60	0.26	0.14	0.17
25	6.02	26	21	37	67	78	7.74	1.27	0.55	0.28	0.05	0.10
26	6.58	20	12	28	60	59	5.90	1.27	0.51	0.23	0.14	0.21
27	3.94	16	7.84	24	60	47	5.19	1.21	0.51	0.17	0.12	0.26
28	9.38	11	6.86	28	48	53	4.79	1.08	0.64	0.14	0.12	0.23
29	8.12	8.26	6.44	25	44	53	4.52	1.02	0.51	0.19		0.23
30	4.07	5.60	5.32	20	44	60	4.38	1.02	0.39	0.21		0.28
31		3.81		17	37		4.25		0.35	0.21		0.26
Total	42.98	319.22	547.44	1,494.78	3,252	3,063	940.57	71.48	23.99	8.00	2.98	3.49
Mean	1.43	10.3	18.2	48.2	105	102	30.3	2.38	0.77	0.26	0.11	0.11
Max.	9.38	28	52	138	235	206	83	5.19	1.21	0.55	0.21	0.28
Min.	0.04	1.45	3.29	2.90	24	47	4.25	1.02	0.35	0.14	0.05	0.05
Runoff - mcm.	3.713	27.581	47.299	129.149	280.973	264.643	81.265	6.176	2.073	0.691	0.257	0.301

WATER YEAR 1962 : Max. 235 Min. 0.04 Mean 26.8 Annual Runoff 844.122 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 6	19.00	142.07	239				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MUNE RIVER BASIN

Mune River at Railway Bridge, Nakhon Ratchasima (M.2)

Location: Lat 15°-00' - 03" N, Long 102°-15' - 57" E, on right bank 100 meters west of Ban Tha Chang School and 30 meters south of railway pumping station, Amphoe Chakkarat, Nakhon Ratchasima.

Drainage Area: 4,800 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +158.50 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.1004

Location: 10 meters from right bank along the gage line.

Elevation: +165.140 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: 1950 to date.

Rating Operation:

Period of Rating: 1960

Rated by Float: -

Rated by Current Meter: 1960

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: Overbank flow was observed at elev. +164.80 m.(M.S.L.) and is included for flow computation.

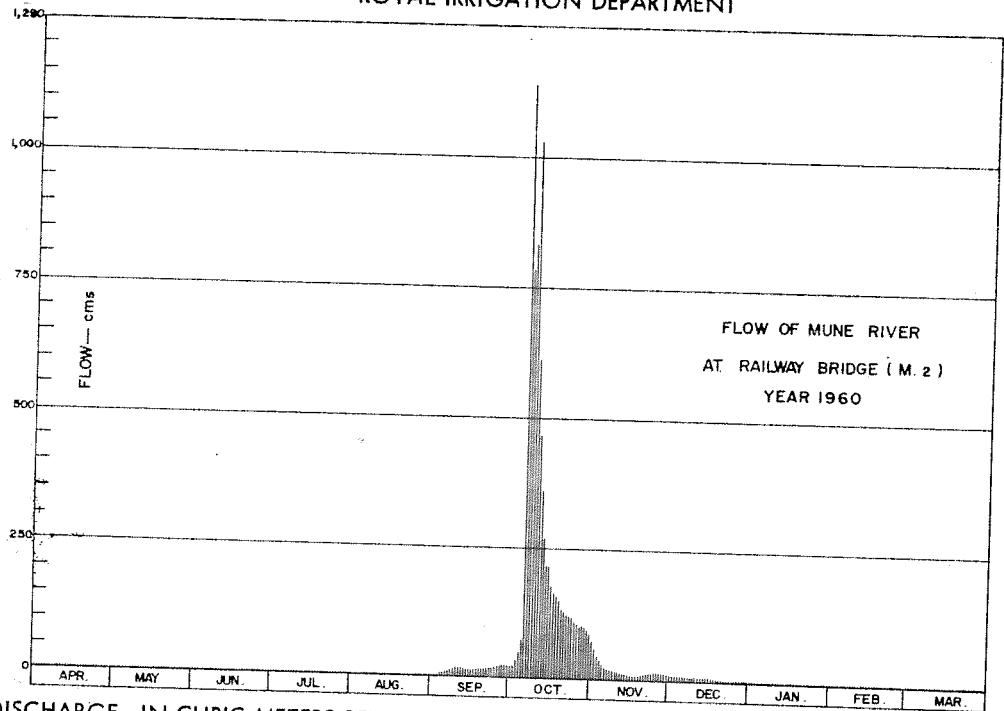
General Description: Records good. The data presented is made by discharge measurements during 1960. No upstream diversions for irrigation except some of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.38	159.31	159.20	159.24	159.15	160.39	162.42	164.50	161.52	160.28	159.87	159.57
2	.38	.31	.19	.25	.15	.55	.49	.08	.47	.27	.86	.57
3	.37	.31	.18	.25	.18	.72	163.19	163.62	.42	.26	.85	.57
4	.37	.31	.17	.25	.20	.94	.99	.31	.37	.25	.84	.56
5	.36	.30	.20	.24	.19	161.12	164.55	162.93	.34	.24	.83	.56
6	159.36	159.30	159.23	159.24	159.18	161.33	167.08	162.55	161.31	160.23	159.83	159.55
7	.36	.30	.24	.24	.17	.47	166.78	.38	.30	.23	.82	.55
8	.36	.30	.25	.23	.16	.78	.83	.20	.29	.22	.81	.54
9	.35	.30	.22	.23	.16	162.14	.99	.06	.26	.21	.80	.54
10	.35	.29	.21	.23	.17	.18	.59	161.98	.23	.20	.79	.54
11	159.35	159.29	159.20	159.23	159.18	162.04	166.40	161.86	161.21	160.19	159.78	159.54
12	.35	.29	.19	.30	.19	161.99	.20	.72	.19	.18	.77	.53
13	.35	.29	.18	.36	.19	.97	165.97	.57	.21	.17	.75	.54
14	.34	.28	.17	.33	.20	.86	.81	.50	.07	.16	.74	.54
15	.34	.28	.16	.33	.20	.78	.82	.44	.00	.15	.73	.55
16	159.34	159.28	159.15	159.33	159.21	161.82	165.67	161.36	160.93	160.14	159.72	159.55
17	.34	.27	.15	.32	.23	.90	.62	.29	.83	.13	.71	.55
18	.34	.27	.15	.29	.23	.93	.58	.23	.77	.12	.70	.55
19	.33	.27	.18	.24	.23	.93	.53	.23	.70	.11	.69	.56
20	.33	.26	.21	.28	.22	.93	.41	.52	.64	.10	.67	.56
21	159.33	159.26	159.23	159.31	159.21	161.93	165.36	161.45	160.60	160.09	159.66	159.57
22	.32	.26	.24	.34	.20	162.00	.32	.65	.54	.08	.65	.57
23	.32	.25	.25	.35	.19	.08	.29	.76	.50	.07	.63	.57
24	.32	.25	.24	.36	.20	.16	.27	.82	.49	.06	.62	.57
25	.32	.24	.24	.36	.22	.29	.19	.87	.47	.03	.61	.58
26	159.32	159.24	159.23	159.33	159.21	162.48	165.10	161.86	160.46	160.01	159.60	159.58
27	.32	.23	.24	.30	.38	.47	.03	.81	.45	159.99	.59	.58
28	.32	.23	.25	.25	.81	.58	.06	.74	.43	.96	.57	.58
29	.31	.22	.24	.19	160.00	.56	.03	.66	.41	.93		.59
30	.31	.22	.24	.18	.20	.44	164.95	.59	.40	.90		.59
31		.21		.17	.29		.75		.39	.88		.59
Mean	159.34	159.27	159.21	159.27	159.31	161.82	165.33	162.04	160.91	160.12	159.73	159.56
Max.	159.38	159.31	159.25	159.36	160.29	162.58	167.08	164.50	161.52	160.28	159.87	159.59
Min.	159.31	159.21	159.15	159.17	159.15	160.39	162.42	161.23	160.39	159.88	159.57	159.53

WATER YEAR 1960 : Max. 167.08 m. Min. 159.15 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.33	0.23	0.13	0.17	0.10	3.16	21	73	11	2.69	1.28	0.59
2	0.33	0.23	0.12	0.18	0.10	3.94	22	57	11	2.64	1.25	0.59
3	0.32	0.23	0.12	0.18	0.12	4.85	34	44	10	2.60	1.23	0.59
4	0.32	0.23	0.11	0.18	0.13	6.32	54	36	9.70	2.53	1.20	0.57
5	0.30	0.22	0.13	0.17	0.12	7.72	75	29	9.40	2.52	1.17	0.57
6	0.30	0.22	0.16	0.17	0.12	9.30	1,136	23	9.10	2.48	1.17	0.56
7	0.30	0.22	0.17	0.17	0.11	11	782	20	9.00	2.48	1.14	0.56
8	0.30	0.22	0.18	0.16	0.11	14	832	18	8.92	2.43	1.11	0.54
9	0.29	0.22	0.15	0.16	0.11	17	1,028	17	8.68	2.39	1.08	0.54
10	0.29	0.21	0.14	0.16	0.11	18	612	16	8.44	2.35	1.05	0.54
11	0.29	0.21	0.13	0.16	0.12	16	469	15	8.28	2.31	1.02	0.54
12	0.29	0.21	0.12	0.22	0.12	16	357	13	8.14	2.28	1.00	0.52
13	0.29	0.21	0.12	0.30	0.12	16	267	12	7.72	2.25	0.97	0.54
14	0.28	0.20	0.11	0.26	0.13	15	214	11	7.36	2.21	0.94	0.54
15	0.28	0.20	0.10	0.26	0.13	14	217	10	6.80	2.18	0.92	0.56
16	0.28	0.20	0.10	0.26	0.14	14	175	9.60	6.24	2.18	0.90	0.56
17	0.28	0.19	0.10	0.25	0.16	15	164	8.92	5.52	2.11	0.87	0.56
18	0.28	0.19	0.10	0.21	0.16	15	157	8.44	5.15	2.07	0.85	0.56
19	0.26	0.19	0.12	0.17	0.16	15	148	8.44	4.73	2.04	0.83	0.57
20	0.26	0.18	0.14	0.20	0.15	15	131	9.20	4.41	2.00	0.79	0.57
21	0.25	0.18	0.16	0.23	0.14	15	126	10	4.20	1.97	0.77	0.59
22	0.25	0.18	0.17	0.28	0.13	16	121	12	3.88	1.94	0.75	0.59
23	0.25	0.18	0.18	0.29	0.12	17	118	14	3.68	1.90	0.70	0.59
24	0.25	0.18	0.17	0.30	0.13	18	116	14	3.63	1.87	0.68	0.59
25	0.25	0.17	0.17	0.30	0.15	19	109	15	3.54	1.77	0.66	0.61
26	0.25	0.17	0.16	0.26	0.14	22	103	15	3.49	1.71	0.64	0.61
27	0.25	0.16	0.17	0.22	0.33	22	99	14	3.44	1.65	0.62	0.61
28	0.25	0.16	0.18	0.18	1.11	23	101	13	3.34	1.56	0.59	0.61
29	0.23	0.15	0.17	0.13	1.68	23	99	13	3.25	1.46	0.61	0.61
30	0.23	0.15	0.17	0.12	2.35	21	94	12	3.20	1.37	0.62	0.62
31		0.14		0.11	2.73		883		3.16	1.31		0.62
Total	8.34	6.03	4.25	6.40	11.53	442.29	8,068	570.60	198.38	65.24	26.18	17.82
Mean	0.28	0.19	0.14	0.21	0.37	14.7	260	19.0	6.40	2.10	0.93	0.57
Max.	0.33	0.23	0.18	0.30	2.73	23	1,136	73	11	2.69	1.28	0.62
Min.	0.23	0.14	0.10	0.11	0.10	3.16	21	8.44	3.16	1.31	0.59	0.52
Runoff - BCM.	0.720	0.521	0.351	0.553	0.996	38.214	697.075	49.300	17.140	5.637	2.262	1.540

WATER YEAR 1960 : Max. 1,136 Min. 0.10 Mean 25.8 Annual Runoff 814.325 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	06.00	167.10	1,160				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
MUNE RIVER BASIN**

Mune River at Railway Bridge, Nakhon Ratchasima (M.2)

Location: Lat 15° - 00' - 03" N, Long 102° - 15' - 57" E, on right bank 100 meters west of Ban Tha Chang School and 30 meters south of railway pumping station, Amphoe Chakkarat, Nakhon Ratchasima.

Drainage Area: 4,800 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +158.50 m. (M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No. 1004

Location: 10 meters from right bank along the gage line.

Elevation: +165.140 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1950 to date.

Rating Operation:

Period of Rating: 1960

Rated by Float: -

Rated by Current Meter: 1960

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

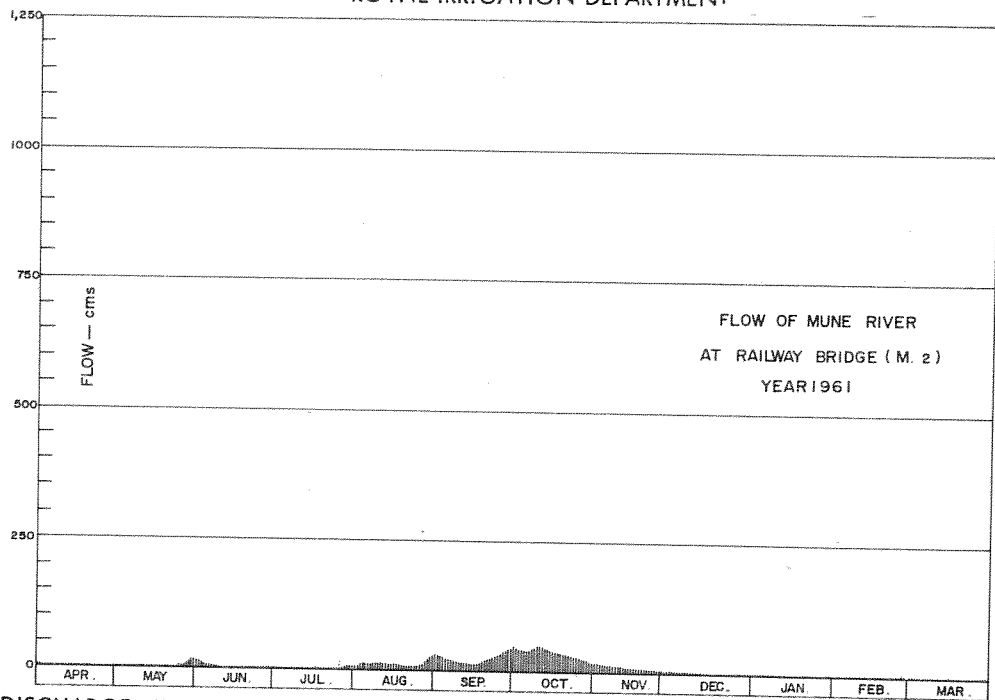
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960. No upstream diversions for irrigation except some of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.59	159.57	161.99	160.48	161.24	162.98	163.70	162.00	160.44	159.72	159.61	159.49
2	.60	.57	.88	.48	.33	.94	.60	161.98	.43	.71	.61	.49
3	.60	.58	.54	.45	.47	.89	.50	.95	.41	.71	.60	.48
4	.60	.58	.32	.42	.54	.77	.50	.86	.39	.70	.60	.48
5	.60	.59	.11	.41	.54	.52	.45	.81	.37	.70	.60	.48
6	159.61	159.59	160.98	160.40	161.53	162.44	163.41	161.74	160.34	159.69	159.59	159.48
7	.61	.59	.88	.39	.56	.38	.49	.68	.31	.69	.59	.48
8	.61	.60	.79	.37	.57	.28	.62	.64	.27	.68	.59	.48
9	.62	.61	.67	.36	.60	.16	.72	.59	.23	.68	.58	.47
10	.62	.61	.61	.36	.66	.05	.81	.54	.19	.68	.58	.47
11	159.62	159.61	160.63	160.42	161.69	161.95	163.78	161.46	160.15	159.68	159.58	159.47
12	.62	.63	.64	.47	.67	.92	.70	.39	.12	.67	.57	.46
13	.61	.67	.62	.50	.62	.87	.62	.32	.08	.67	.57	.46
14	.61	.71	.57	.51	.61	.82	.50	.25	.05	.66	.56	.46
15	.61	.77	.50	.52	.59	.79	.44	.20	.02	.66	.55	.45
16	159.61	159.79	160.44	160.53	161.53	161.84	163.40	161.16	159.98	159.66	159.55	159.45
17	.61	.88	.35	.54	.50	.90	.34	.11	.95	.66	.54	.45
18	.60	160.04	.29	.55	.47	162.04	.30	.06	.90	.65	.54	.45
19	.60	.15	.26	.58	.38	.32	.24	.00	.90	.65	.53	.44
20	.60	.17	.28	.60	.29	.49	.18	160.96	.88	.64	.53	.44
21	159.60	160.18	160.30	160.62	161.25	162.56	163.13	160.90	159.85	159.64	159.52	159.44
22	.60	.14	.32	.63	.22	.68	.00	.87	.82	.64	.52	.44
23	.59	.13	.36	.62	.25	.78	162.97	.80	.80	.63	.52	.43
24	.59	.18	.46	.61	.24	.93	.90	.76	.80	.63	.51	.43
25	.59	.89	.51	.60	.26	163.03	.85	.70	.79	.63	.51	.43
26	159.59	160.94	160.50	160.65	161.42	163.14	162.77	160.64	159.78	159.63	159.50	159.43
27	.59	.92	.47	.71	.85	.30	.66	.59	.77	.62	.49	.42
28	.59	161.48	.48	.83	162.30	.49	.48	.54	.76	.62	.49	.44
29	.58	.78	.49	.89	.55	.51	.43	.50	.76	.62	.42	.42
30	.58	162.09	.48	.98	.75	.62	.23	.47	.74	.61	.42	.42
31		.10		161.11	.94		.68		.73	.61		.42
Mean	159.60	160.16	160.69	160.57	161.63	162.54	163.22	161.21	160.03	159.66	159.55	159.45
Max.	159.62	162.10	161.99	161.11	162.94	163.62	163.81	162.00	160.44	159.72	159.61	159.49
Min.	159.58	159.57	160.26	160.36	161.22	161.79	162.08	160.47	159.73	159.61	159.49	159.42

WATER YEAR 1961 : Max. 163.81 m. Min. 159.42 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.62	0.59	16	3.58	8.52	30	46	16	3.39	0.90	0.66	0.46
2	0.64	0.59	15	3.58	9.30	29	43	16	3.34	0.87	0.66	0.46
3	0.64	0.61	11	3.44	11	28	41	15	3.25	0.87	0.64	0.45
4	0.64	0.61	9.20	3.30	11	26	41	15	3.15	0.85	0.64	0.45
5	0.64	0.62	7.66	3.68	11	22	39	14	3.07	0.85	0.64	0.45
6	0.66	0.62	6.64	3.20	11	21	38	13	2.94	0.83	0.62	0.45
7	0.66	0.62	5.86	3.16	12	20	40	13	2.81	0.83	0.62	0.45
8	0.66	0.64	5.25	3.07	12	19	44	12	2.64	0.81	0.62	0.45
9	0.68	0.66	4.57	3.03	12	18	46	12	2.48	0.81	0.61	0.44
10	0.68	0.66	4.25	3.03	13	16	49	11	2.32	0.81	0.61	0.44
11	0.68	0.66	4.36	3.30	13	15	47	11	2.18	0.81	0.61	0.44
12	0.68	0.70	4.41	3.54	13	15	46	9.90	2.07	0.79	0.59	0.43
13	0.66	0.79	4.31	3.68	12	15	44	9.20	1.94	0.79	0.59	0.43
14	0.66	0.87	4.04	3.73	12	14	41	8.60	1.84	0.77	0.57	0.43
15	0.66	1.00	3.68	3.78	12	14	39	8.20	1.74	0.77	0.56	0.42
16	0.66	1.04	3.39	3.84	11	14	38	7.96	1.61	0.77	0.56	0.42
17	0.66	1.31	2.98	3.89	11	15	37	7.66	1.53	0.77	0.54	0.42
18	0.64	1.81	2.73	3.94	11	16	36	7.28	1.43	0.75	0.54	0.42
19	0.64	2.18	2.60	4.09	9.82	19	35	6.80	1.37	0.75	0.52	0.40
20	0.64	2.25	2.69	4.20	8.92	22	34	6.48	1.31	0.72	0.52	0.40
21	0.64	2.28	2.77	4.31	8.60	23	33	6.00	1.23	0.72	0.50	0.40
22	0.64	2.14	2.86	4.36	8.36	25	30	5.80	1.34	0.72	0.50	0.40
23	0.62	2.11	3.03	4.31	8.60	27	30	5.32	1.08	0.70	0.50	0.39
24	0.62	2.28	3.49	4.25	8.52	29	29	5.07	1.08	0.70	0.49	0.39
25	0.62	5.93	3.73	4.20	8.68	31	28	4.73	1.05	0.70	0.49	
26	0.62	6.32	3.68	4.47	10	33	26	4.41	1.02	0.70	0.47	0.39
27	0.62	6.16	3.53	4.79	14	36	25	4.15	1.00	0.68	0.46	0.38
28	0.62	11	3.58	5.52	19	40	22	3.89	0.99	0.68	0.49	0.38
29	0.61	14	3.63	5.93	23	41	21	3.68	0.99	0.68		0.38
30	0.61	17	3.58	6.64	26	44	18	3.54	0.94	0.66		0.38
31		17		7.66	29		17		0.92	0.66		0.38
Total	19.32	105.05	154.50	127.50	388.32	717	1,103	266.67	58.05	23.72	15.79	12.97
Mean	0.64	3.39	5.15	4.11	12.55	23.9	35.6	8.89	1.87	0.77	0.54	0.42
Max.	0.68	17	16	7.66	29	44	49	16	3.39	0.90	0.66	0.46
Min.	0.61	0.59	2.60	3.03	8.36	14	17	3.54	0.92	0.66	0.46	0.38
Runoff - mcm.	1.669	9.076	13.349	11.016	33.551	61.949	95.299	23.040	5.015	2.049	1.364	1.121

WATER YEAR 1961 : Max. 49 Min. 0.38 Mean 8.20 Annual Runoff 258.499 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	09.00	163.81	49				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MUNE RIVER BASIN

Mune River at Railway Bridge, Nakhon Ratchasima (M.2)

Location: Lat 15°-00' - 03" N, Long 102°-15' - 57" E, on right bank 100 meters west of Ban Tha Chang School and 30 meters south of railway pumping station, Amphoe Chakkarat, Nakhon Ratchasima.

Drainage Area: 4,800 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +158.50 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D. No.1004

Location: 10 meters from right bank along the gage line.

Elevation: +165.140 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: 1950 to date.

Rating Operation:

Period of Rating: 1960

Rated by Float: -

Rated by Current Meter: 1960

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

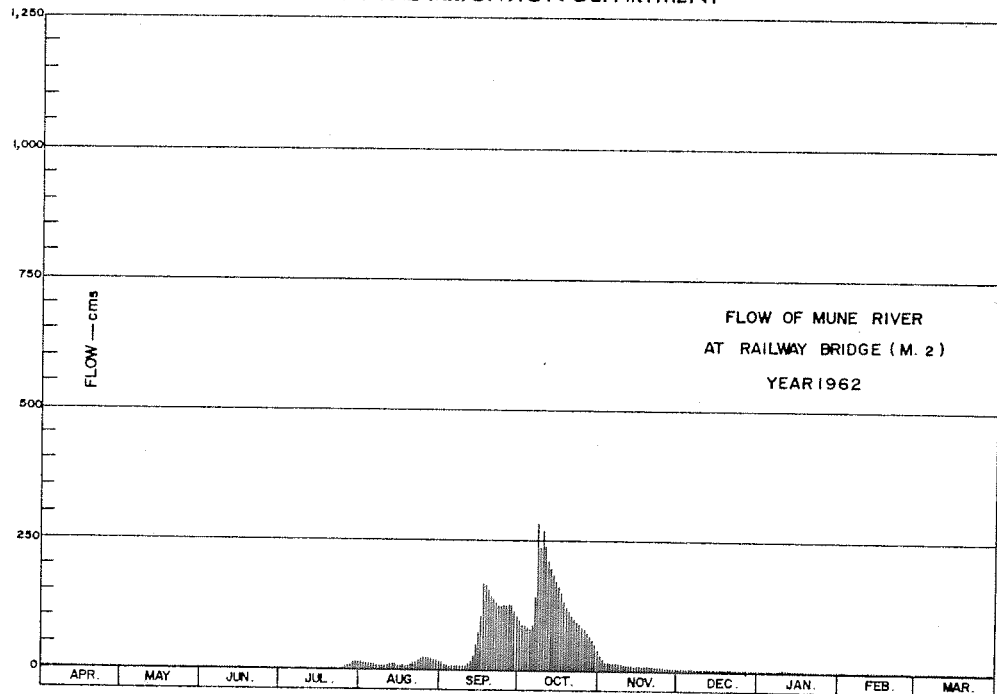
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960. No upstream diversions for irrigation except some of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.41	159.41	159.59	159.44	161.87	161.65	164.96	162.88	160.53	160.10	159.61	159.52
2	.41	.41	.59	.44	.78	.37	.82	.39	.50	.08	.61	.52
3	.41	.41	.58	.44	.64	.23	.74	161.93	.47	.07	.61	.51
4	.41	.42	.58	.43	.57	.12	.69	.78	.45	.06	.60	.51
5	.40	.42	.57	.42	.50	.04	.60	.72	.42	.05	.60	.51
6	159.40	159.42	159.56	159.40	161.40	161.05	164.79	161.64	160.40	160.03	159.59	159.50
7	.40	.43	.55	.39	.30	.02	165.48	.59	.37	.01	.59	.50
8	.40	.43	.54	.37	.18	.10	166.00	.51	.36	.00	.58	.50
9	.39	.43	.54	.37	.16	.15	165.88	.45	.35	159.99	.58	.49
10	.39	.44	.53	.36	.22	.27	.97	.39	.34	.98	.58	.49
11	159.39	159.44	159.53	159.36	161.33	161.59	165.89	161.34	160.32	159.97	159.58	159.48
12	.38	.45	.52	.35	.46	162.08	.79	.29	.31	.96	.58	.48
13	.38	.45	.51	.35	.57	.83	.74	.25	.31	.95	.57	.48
14	.38	.46	.51	.35	.49	163.80	.69	.16	.30	.92	.57	.48
15	.37	.46	.50	.34	.32	164.46	.64	.11	.30	.88	.57	.48
16	159.37	159.47	159.50	159.34	161.18	165.12	165.59	161.04	160.30	159.85	159.57	159.48
17	.37	.51	.50	.34	.05	.63	.51	.01	.29	.81	.56	.47
18	.37	.56	.50	.33	.00	.62	.39	160.97	.28	.77	.56	.47
19	.38	.58	.50	.33	.17	.55	.30	.93	.28	.73	.56	.47
20	.38	.59	.49	.35	.50	.48	.21	.90	.26	.69	.55	.47
21	159.38	159.60	159.49	159.37	161.79	165.43	165.08	160.87	160.24	159.67	159.55	159.47
22	.39	.62	.49	.39	.99	.39	164.97	.83	.23	.67	.54	.46
23	.39	.63	.49	.47	162.13	.35	.88	.79	.21	.66	.54	.46
24	.39	.63	.48	.76	.40	.33	.78	.75	.19	.65	.54	.46
25	.39	.63	.48	160.21	.60	.36	.68	.70	.17	.65	.53	.46
26	159.39	159.64	159.47	160.98	162.56	165.34	164.57	160.68	160.16	159.64	159.53	159.46
27	.40	.63	.46	161.14	.50	.36	.41	.65	.16	.64	.53	.45
28	.40	.62	.46	.38	.36	.31	.26	.63	.15	.63	.52	.45
29	.40	.61	.45	.87	.19	.21	.06	.60	.13	.63	.45	.45
30	.40	.61	.45	.92	.13	.08	163.81	.56	.11	.62	.44	.44
31	.60	.60	.91	161.97	.60	.36	.40	.10	.62	.62	.44	.44
Mean	159.39	159.32	159.51	159.83	159.69	163.58	165.05	161.21	160.29	159.84	159.57	159.48
Max.	159.41	159.64	159.59	161.92	162.60	165.63	166.00	162.88	160.53	160.10	159.61	159.52
Min.	159.37	159.41	159.45	159.33	161.00	161.02	163.40	160.56	160.10	159.62	159.52	159.44

WATER YEAR 1962 : Max. 166.00 m. Min. 159.33 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.37	0.37	0.62	0.40	15	12	95	28	3.84	2.00	0.66	0.50
2	0.37	0.37	0.62	0.40	14	9.70	87	20	3.68	1.94	0.66	0.50
3	0.37	0.37	0.61	0.40	12	8.44	83	15	3.54	1.90	0.66	0.49
4	0.37	0.38	0.61	0.39	12	7.72	81	14	3.44	1.87	0.64	0.49
5	0.36	0.38	0.59	0.38	11	7.12	77	13	3.30	1.84	0.64	0.49
6	0.36	0.38	0.57	0.36	10	7.20	85	12	3.20	1.78	0.62	0.47
7	0.36	0.39	0.56	0.35	9.00	6.96	140	12	3.07	1.71	0.62	0.47
8	0.36	0.39	0.54	0.32	8.08	7.60	280	11	3.03	1.68	0.61	0.47
9	0.35	0.39	0.54	0.32	7.96	7.90	235	10	2.96	1.65	0.61	0.46
10	0.35	0.40	0.52	0.30	8.36	8.76	268	9.90	2.94	1.62	0.61	0.46
11	0.35	0.40	0.52	0.30	9.30	12	239	9.40	2.86	1.59	0.61	0.45
12	0.33	0.42	0.50	0.29	11	17	208	8.92	2.81	1.56	0.61	0.45
13	0.33	0.42	0.49	0.29	12	27	194	8.60	2.81	1.53	0.59	0.45
14	0.33	0.43	0.49	0.29	11	49	180	7.96	2.77	1.43	0.59	0.45
15	0.32	0.43	0.47	0.28	9.20	71	169	7.66	2.77	1.31	0.59	0.45
16	0.32	0.44	0.47	0.28	8.08	104	158	7.12	2.77	1.22	0.59	0.45
17	0.32	0.49	0.47	0.28	7.20	167	145	6.88	2.73	1.11	0.57	0.44
18	0.32	0.57	0.47	0.26	6.80	164	129	6.56	2.69	1.00	0.57	0.44
19	0.33	0.61	0.47	0.26	8.02	151	119	6.24	2.69	0.92	0.57	0.44
20	0.33	0.62	0.46	0.29	11	140	111	6.00	2.60	0.83	0.56	0.44
21	0.33	0.64	0.46	0.32	14	134	102	5.80	2.52	0.79	0.56	0.44
22	0.35	0.68	0.46	0.35	15	129	95	5.52	2.48	0.79	0.54	0.43
23	0.35	0.70	0.46	0.44	17	124	90	5.25	2.39	0.77	0.54	0.43
24	0.35	0.70	0.45	0.49	21	122	85	5.03	2.32	0.75	0.54	0.43
25	0.35	0.70	0.45	2.39	24	126	80	4.73	2.26	0.75	0.53	0.43
26	0.35	0.72	0.44	6.64	23	123	76	4.62	2.21	0.72	0.53	0.43
27	0.36	0.70	0.43	7.80	22	126	69	4.47	2.21	0.72	0.53	0.42
28	0.36	0.68	0.43	9.80	20	120	64	4.36	2.18	0.70	0.50	0.42
29	0.36	0.66	0.42	15	18	111	57	4.20	2.11	0.70	0.42	0.42
30	0.36	0.66	0.42	15	17	102	49	3.99	2.04	0.68	0.40	0.40
31	0.36	0.64	0.42	15	16	38	38	2.00	2.00	0.68	0.40	0.40
Total	10.42	16.13	15.01	80.17	409.00	2,202.40	3,888	268.21	85.22	38.54	16.45	13.91
Mean	0.35	0.52	0.50	2.59	13.2	73.4	125	8.94	2.75	1.24	0.59	0.45
Max.	0.37	0.72	0.62	15	24	167	280	28	3.84	2.00	0.66	0.50
Min.	0.32	0.37	0.42	0.26	6.80	6.96	38	3.99	2.00	0.68	0.50	0.40
Runoff - mcm.	0.900	1.394	1.297	6.927	35.338	190.287	335.923	23.173	7.363	3.330	1.421	1.202

WATER YEAR 1962 : Max. 280 Min. 0.32 Mean 19.3 Annual Runoff 608.555 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	16.00	166.00	280				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1960
MUNE RIVER BASIN**

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

Location: Lat 15° - 13' - 17" N, Long 104° - 15' - 39" E, on left bank at the abutments of Seri Prachathipatai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. M.7

Location: On left bank near the bridge.

Elevation: +113.317 m.(M.S.L.)

Gage Reading Frequency: 2 - time daily readings at 09.00 and 15.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings.

Period of Available Gage Records: 1944 to date.

Rating Operation:

Period of Rating: 1956 - 58, 1964 to date.

Rated by Float: -

Rated by Current Meter: 1956 - 58, 1964 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow.

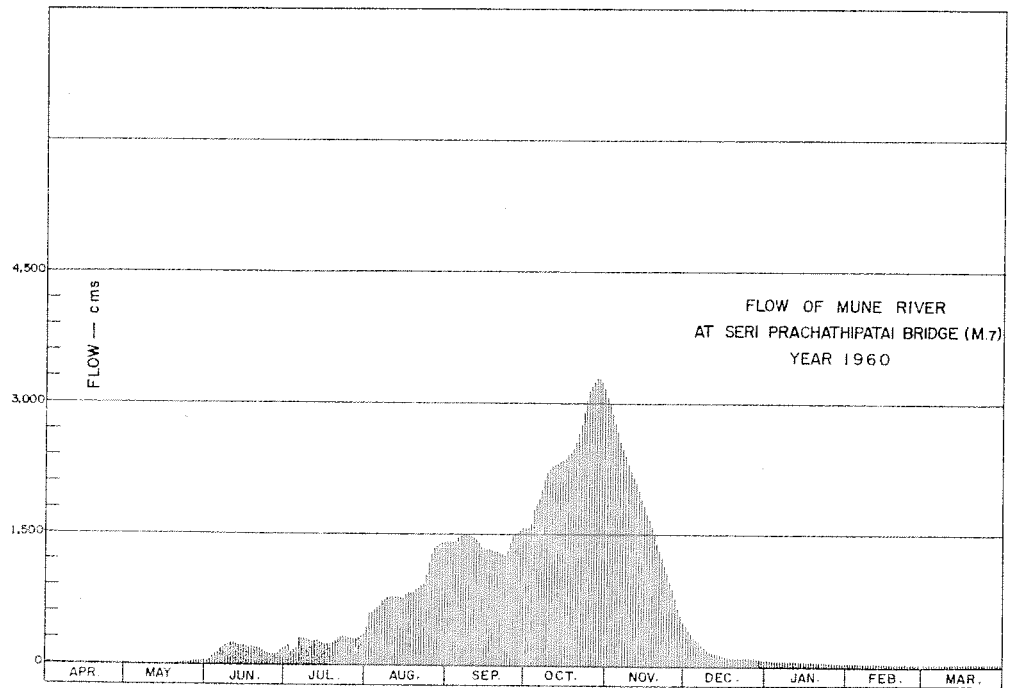
General Description: Records poor. Stage - discharge relationship used is defined by discharge measurements made for period 1951. No upstream diversions for irrigation except those for series of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.50	106.37	106.65	107.39	108.08	110.39	110.75	113.31	108.13	106.78	106.59	106.48
2	.49	.36	.75	.44	.31	.37	.78	.22	107.99	.77	.58	.48
3	.49	.36	.87	.51	.51	.38	.84	.11	.88	.76	.58	.48
4	.48	.36	107.00	.57	.59	.41	111.20	112.99	.77	.74	.57	.47
5	.47	.35	.14	.63	.65	.48	.33	.87	.66	.74	.57	.47
6	106.45	106.35	107.25	107.71	108.72	110.53	111.51	112.72	107.59	106.73	106.56	106.46
7	.44	.34	.31	.70	.79	.55	.73	.60	.49	.73	.55	.46
8	.44	.34	.43	.68	.86	.58	.98	.45	.39	.72	.55	.46
9	.43	.34	.48	.65	.93	.59	112.10	.29	.31	.71	.55	.47
10	.43	.33	.50	.63	.94	.53	.20	.15	.21	.70	.54	.48
11	106.42	106.33	107.51	107.62	104.95	110.48	112.26	112.00	107.19	106.70	106.54	106.49
12	.42	.33	.48	.62	.95	.43	.28	111.84	.13	.70	.53	.49
13	.42	.33	.45	.64	.94	.37	.50	.65	.10	.70	.53	.50
14	.41	.34	.44	.58	.93	.26	.34	.49	.06	.69	.53	.51
15	.40	.34	.46	.51	.92	.21	.39	.29	.03	.69	.52	.51
16	106.41	106.34	107.38	107.47	109.01	110.19	112.44	111.11	107.01	106.69	106.52	106.50
17	.41	.34	.37	.48	.07	.20	.48	110.95	106.99	.68	.51	.50
18	.40	.35	.39	.51	.07	.14	.52	.79	.97	.67	.51	.50
19	.40	.37	.36	.56	.07	.14	.59	.57	.95	.65	.51	.50
20	.40	.40	.34	.62	.15	.13	.70	.38	.94	.65	.50	.50
21	106.39	106.45	107.32	107.68	109.18	110.09	112.83	110.19	106.92	106.64	106.50	106.50
22	.39	.49	.24	.72	.22	.05	.97	109.99	.90	.63	.50	.49
23	.38	.51	.17	.73	.30	.02	113.12	.82	.89	.63	.50	.49
24	.38	.52	.12	.73	.54	.16	.25	.58	.87	.62	.50	.48
25	.37	.55	.10	.72	.82	.35	.35	.37	.85	.61	.50	.47
26	106.37	106.57	107.10	107.71	110.10	110.56	113.42	109.18	106.84	106.61	106.49	106.46
27	.35	.59	.10	.69	.24	.62	.47	108.94	.83	.61	.48	.45
28	.35	.60	.12	.71	.29	.65	.50	.63	.82	.61	.48	.45
29	.37	.62	.23	.74	.34	.70	.48	.44	.81	.60	.44	.44
30	.37	.63	.32	.79	.36	.75	.45	.27	.80	.60	.42	.42
31		.64		.86	.38		.39		.79	.59		
Mean	106.41	106.42	107.25	107.63	109.20	110.38	112.42	111.07	107.16	106.67	106.53	106.48
Max.	106.50	106.64	107.51	107.86	110.38	110.75	113.50	113.31	108.13	106.78	106.59	106.51
Min.	106.35	106.33	106.65	107.39	108.08	110.02	110.75	108.27	106.79	106.59	106.48	106.42

WATER YEAR 1960 : Max. 113.50 m. Min. 106.33 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	9.00	42	205	435	1,411	1,569	3,079	453	64	34	20
2	21	8.00	59	220	522	1,402	1,583	2,986	404	63	32	20
3	21	8.00	82	241	602	1,406	1,610	2,880	365	61	32	20
4	20	8.00	108	260	634	1,419	1,772	2,767	328	57	31	19
5	19	8.00	138	280	659	1,450	1,830	2,675	290	57	31	19
6	17	8.00	165	307	688	1,472	1,911	2,568	267	55	30	18
7	16	7.00	181	304	718	1,485	2,015	2,487	235	55	29	18
8	16	7.00	217	297	747	1,494	2,139	2,394	205	54	29	18
9	15	7.00	232	287	777	1,499	2,200	2,302	181	52	29	19
10	15	6.00	238	280	780	1,472	2,253	2,227	155	50	27	20
11	13	6.00	241	277	785	1,450	2,286	2,149	150	50	27	21
12	13	6.00	232	277	785	1,428	2,297	2,069	135	50	26	21
13	13	6.00	223	284	780	1,402	2,308	1,978	128	50	26	22
14	12	7.00	220	264	777	1,353	2,331	1,903	120	49	26	23
15	11	7.00	226	241	772	1,331	2,359	1,813	114	49	25	23
16	12	7.00	202	229	810	1,323	2,388	1,732	110	49	25	22
17	12	7.00	199	232	835	1,327	2,412	1,660	106	47	23	22
18	11	8.00	205	241	835	1,301	2,437	1,588	102	46	23	22
19	11	9.00	196	257	835	1,301	2,480	1,490	98	43	23	22
20	11	11	190	277	870	1,296	2,553	1,406	96	43	22	22
21	11	17	184	297	882	1,279	2,645	1,323	92	41	22	22
22	11	21	162	311	900	1,261	2,752	1,235	88	40	22	21
23	10	23	145	314	934	1,248	2,889	1,160	86	40	22	21
24	10	25	133	314	1,037	1,309	3,017	1,054	82	38	22	20
25	9.00	29	128	311	1,160	1,393	3,122	954	78	37	22	19
26	9.00	31	128	307	1,287	1,485	3,198	882	76	37	21	18
27	8.00	34	128	301	1,345	1,512	3,254	781	74	37	20	17
28	8.00	35	133	307	1,367	1,525	3,287	651	72	37	20	17
29	9.00	38	160	318	1,388	1,547	3,265	574	70	35	20	16
30	9.00	40	184	335	1,397	1,570	3,231	506	68	35	20	13
31		41		358	1,406		3,165		66	34		13
Total	395	484	5,081	8,735	27,749	42,151	76,558	53,273	4,894	1,455	721	608
Mean	13.1	15.6	169	282	895	1,405	2,470	1,776	158	46.9	25.7	19.6
Max.	22	41	241	358	1,406	1,570	3,287	3,079	453	64	34	23
Min.	8.00	6.00	42	205	435	1,248	1,569	506	66	34	20	13
Runoff - mcm.	34.128	41.818	438.998	754.551	2,397.514	3,641.846	6,614.611	4,602.787	422.842	125.712	62.294	52.531

WATER YEAR 1960 : Max. 3,287 Min. 6.00 Mean 608 Annual Runoff 19,189.613mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	18.00	113.50	3,287				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
MUNE RIVER BASIN

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

Location: Lat 15° - 13' - 17" N, Long 104° - 15' - 39" E, on left bank at the abutments of Seri Prachathipatai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. M.7

Location: On left bank near the bridge.

Elevation: +113.517 m.(M.S.L.)

Gage Reading Frequency: 2 - time daily readings at 09.00 and 15.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings.

Period of Available Gage Records: 1944 to date.

Rating Operation:

Period of Rating: 1956 - 58, 1964 to date.

Rated by Float: -

Rated by Current Meter: 1956 - 58, 1964 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elev. +113.50 m.(M.S.L.) and is included for flow computation.

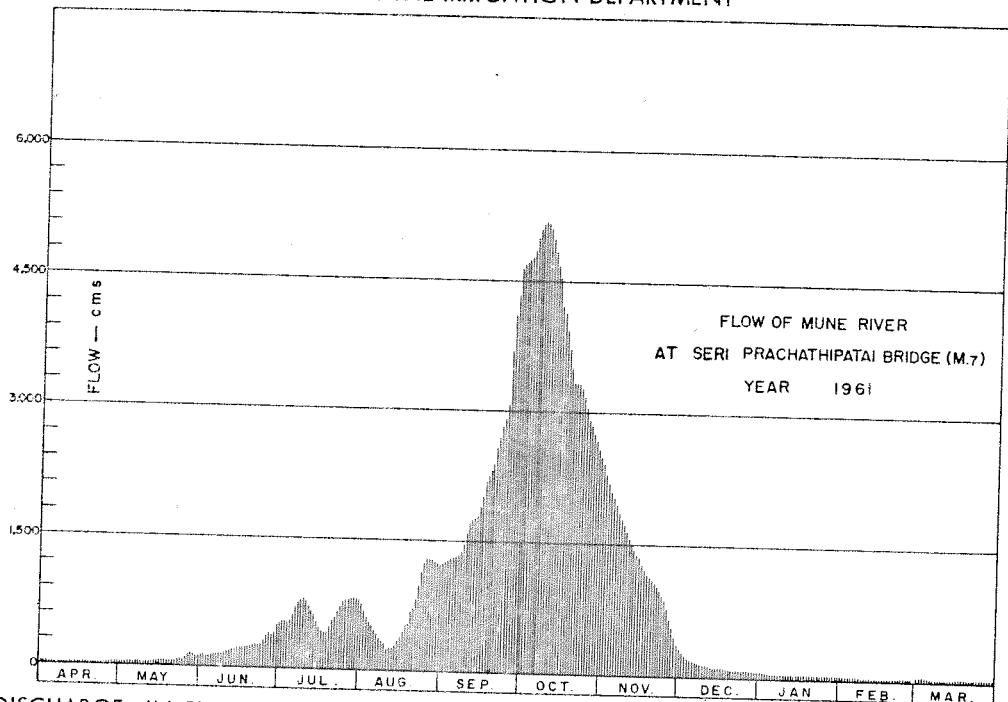
General Description: Gage height record good, discharge record fair. Stage - discharge relationship used is defined by discharge measurements made for period 1958. No upstream diversions for irrigation except those for series of tank irrigation, the total of 140 tanks with capacity of 420 mcm. and irrigated area of 64,200 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.42	106.56	107.07	108.29	108.67	109.98	114.51	112.44	107.69	106.78	106.60	106.59
2	.42	.56	.09	.31	.66	110.04	.52	.26	.57	.76	.59	.58
3	.41	.56	.05	.35	.48	.06	.54	.08	.47	.74	.59	.58
4	.40	.59	.06	.34	.33	.11	.59	111.88	.59	.73	.59	.57
5	.40	.59	.08	.38	.23	.15	.66	.72	.32	.72	.58	.55
6	106.39	106.59	107.14	108.54	108.11	110.17	114.72	111.54	107.27	106.71	106.58	106.54
7	.39	.58	.16	.74	107.97	.19	.75	.36	.24	.70	.57	.53
8	.39	.57	.20	.89	.85	.28	.76	.20	.19	.69	.55	.53
9	.40	.57	.22	.95	.74	.52	.75	.04	.18	.68	.55	.52
10	.40	.56	.27	.99	.65	.80	.72	110.87	.15	.68	.55	.52
11	106.39	106.58	107.29	108.92	107.58	111.03	114.66	110.71	107.09	106.68	106.54	106.51
12	.39	.61	.30	.76	.54	.13	.58	.55	.04	.67	.54	.51
13	.38	.66	.34	.62	.54	.17	.48	.41	.02	.66	.53	.51
14	.38	.69	.35	.50	.63	.21	.40	.27	.00	.66	.53	.50
15	.38	.71	.42	.31	.79	.44	.29	.15	106.98	.65	.52	.50
16	106.43	106.72	107.42	108.14	107.91	111.66	114.15	110.03	106.96	106.65	106.52	106.53
17	.43	.73	.41	.01	108.10	.85	.01	109.92	.94	.65	.51	.55
18	.42	.72	.43	107.99	.29	112.00	113.84	.80	.92	.65	.51	.55
19	.41	.74	.48	108.08	.33	.13	.69	.72	.91	.65	.50	.54
20	.41	.73	.51	.22	.59	.25	.53	.64	.90	.65	.49	.53
21	106.40	106.73	107.54	108.34	108.79	112.41	113.52	109.56	106.89	106.64	106.49	106.52
22	.40	.75	.56	.49	109.02	.61	.52	.47	.88	.64	.48	.51
23	.40	.76	.56	.63	.38	.77	.47	.35	.87	.64	.48	.49
24	.42	.79	.58	.82	.77	.87	.39	.24	.86	.63	.48	.52
25	.46	.78	.70	.92	110.00	113.28	.27	.09	.85	.63	.47	.52
26	106.50	106.91	107.89	108.94	110.68	113.81	113.14	108.90	106.84	106.62	106.47	106.51
27	.53	107.11	.97	.97	.08	114.15	.05	.60	.83	.62	.47	.50
28	.56	.16	.93	109.00	.06	.35	112.95	.33	.82	.61	.49	.48
29	.56	.07	.99	.03	.01	.46	.84	.07	.81	.61	.48	.48
30	.56	.03	108.25	.01	109.98	.49	.71	107.85	.80	.60	.47	.47
31		.03	108.97		.95		.59		.79	.60		.47
Mean	106.43	106.73	107.44	108.59	108.65	111.78	113.95	110.20	107.05	106.66	106.53	106.52
Max.	106.56	107.16	108.25	109.03	110.08	114.49	114.76	112.44	107.69	106.78	106.60	106.59
Min.	106.38	106.56	107.05	107.99	107.54	109.98	112.59	107.85	106.79	106.60	106.47	106.47

WATER YEAR 1961 : Max. 114.76 m. Min. 106.38 m.

HYDROLOGY-SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	30	122	514	751	1,230	4,705	2,388	301	64	35	34
2	13	30	126	522	663	1,257	4,721	2,286	260	61	34	32
3	12	30	118	538	590	1,265	4,756	2,190	229	57	34	32
4	11	34	120	534	530	1,287	4,843	2,089	205	55	34	31
5	11	34	124	550	490	1,305	4,970	2,011	184	54	32	29
6	11	34	138	614	446	1,314	5,081	1,926	170	52	32	27
7	11	32	142	697	398	1,323	5,136	1,844	162	50	31	26
8	11	31	152	760	355	1,362	5,154	1,772	150	48	29	26
9	11	31	157	785	318	1,468	5,136	1,700	147	47	29	25
10	11	30	170	802	287	1,592	5,081	1,623	140	47	29	25
11	11	32	175	772	264	1,695	4,970	1,551	126	47	27	23
12	11	37	178	705	251	1,740	4,825	1,481	116	45	27	23
13	10	44	190	646	251	1,758	4,653	1,419	112	44	26	23
14	10	49	193	598	280	1,776	4,523	1,358	108	44	26	22
15	10	52	214	522	335	1,680	4,345	1,305	104	43	25	22
16	15	54	214	456	375	1,982	4,132	1,252	100	43	25	26
17	15	55	211	410	442	2,073	3,926	1,204	96	43	23	26
18	13	54	217	403	514	2,149	3,696	1,151	92	43	23	29
19	12	57	232	435	530	2,216	3,505	1,116	90	43	22	29
20	12	55	241	486	634	2,280	3,321	1,081	88	43	21	27
21	11	55	251	534	718	2,371	3,310	1,046	86	41	21	26
22	11	59	257	594	814	2,494	3,310	1,007	84	41	20	25
23	11	61	257	651	968	2,603	3,254	955	82	41	20	23
24	13	66	264	730	1,138	2,675	3,165	908	80	40	20	21
25	18	64	304	772	1,239	3,048	3,037	844	78	40	20	25
26	22	90	369	781	1,274	3,657	2,908	764	76	38	19	25
27	26	130	396	793	1,274	4,132	2,825	638	74	38	19	23
28	30	142	382	806	1,265	4,441	2,735	530	72	37	19	22
29	30	122	403	819	1,243	4,621	2,653	431	70	37	21	20
30	30	114	498	810	1,230	4,670	2,560	355	68	35	19	20
31	114	114	793	793	1,217	4,670	2,480	66	66	35	19	19
Total	436	1,822	6,815	19,832	21,084	67,664	123,714	40,225	3,816	1,396	723	779
Mean	14	58.7	227	640	680	2,255	3,991	1,341	123	45.0	25.8	25.1
Max.	30	142	498	819	1,274	4,670	5,154	2,388	301	64	35	34
Min.	10	30	118	403	251	1,230	2,480	355	66	35	19	19
Runoff - mcm.	37.670	157.421	588.816	1,713	1,821	5,846.170	10,688.890	3,475	329.702	120.614	62.467	67.306

WATER YEAR 1961 : Max. 5,154 Min. 10 Mean 790 Annual Runoff 24,909.638mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	18.00	114.76	5,157				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MUNE RIVER BASIN

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

Location: Lat 15°- 13' - 17" N, Long 104°- 15' - 39" E, on left bank at the abutments of Seri Prachathipatai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,675 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. M.7

Location: On left bank near the bridge.
Elevation: +113.317 m.(M.S.L.)

Gage Reading Frequency: 2 - time daily readings at 09.00 and 15.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings.

Period of Available Gage Records: 1944 to date.

Rating Operation:

Period of Rating: 1956 - 58, 1964 to date.

Rated by Float:

Rated by Current Meter: 1956 - 58, 1964 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elev. +113.50 m.(M.S.L.) and is included for flow computation.

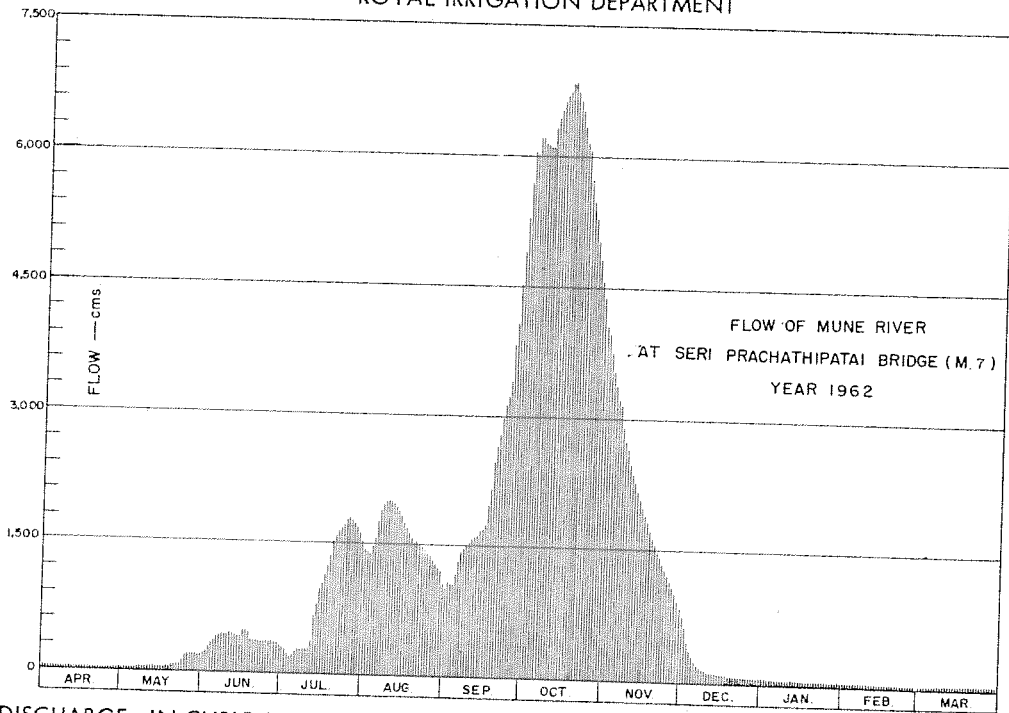
General Description: Gage height record good, discharge record fair. Stage - discharge relationship used is defined by discharge measurements made for period 1958. No upstream diversions for irrigation except those for series of tank irrigation, the total of 140 tanks with capacity of 420 mcm. and irrigated area of 64,200 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.46	106.48	107.42	107.65	110.50	109.71	115.02	114.04	108.87	106.78	106.61	106.50
2	.45	.49	.53	.54	.41	.66	.14	113.89	.60	.77	.60	.50
3	.45	.51	.69	.46	.37	.61	.21	.74	.15	.76	.60	.50
4	.44	.53	.85	.40	.57	.61	.25	.59	107.86	.75	.59	.49
5	.43	.55	.93	.45	.88	110.02	.25	.44	.68	.75	.58	.48
6	106.43	106.57	108.01	107.56	111.26	110.34	115.23	113.29	107.45	106.74	106.58	106.48
7	.42	.59	.07	.61	.47	.47	.22	.13	.34	.74	.57	.48
8	.42	.61	.09	.62	.61	.55	.21	112.95	.24	.73	.57	.48
9	.41	.62	.08	.63	.69	.62	.21	.86	.19	.73	.57	.48
10	.41	.66	.10	.65	.70	.73	.30	.58	.13	.72	.57	.48
11	106.40	106.73	108.13	107.70	111.68	110.82	115.35	112.41	107.08	106.72	106.56	106.48
12	.40	.74	.11	.94	.61	.86	.40	.24	.05	.72	.56	.51
13	.40	.72	.02	108.67	.54	.92	.43	.06	.02	.72	.56	.55
14	.39	.68	.00	109.20	.43	111.01	.45	111.86	106.99	.72	.55	.55
15	.39	.68	.01	.43	.30	.06	.47	.68	.96	.71	.55	.54
16	106.40	106.67	108.22	109.61	111.15	111.19	115.49	111.48	106.94	106.70	106.55	106.52
17	.41	.66	.22	.79	.02	.62	.49	.29	.93	.68	.55	.51
18	.45	.67	.18	110.02	110.89	112.23	.47	.10	.92	.67	.54	.49
19	.45	.75	107.94	.33	.77	.61	.43	110.90	.89	.66	.54	.49
20	.45	.77	.89	.67	.64	.88	.38	.73	.88	.66	.53	.49
21	106.44	106.80	107.87	110.84	110.69	113.07	115.31	110.56	106.87	106.65	106.53	106.49
22	.44	.86	.87	.94	.64	.23	.23	.40	.86	.65	.53	.49
23	.44	.90	.87	111.03	.54	.37	.15	.25	.85	.65	.52	.49
24	.44	107.06	.87	.09	.47	.50	.05	.10	.84	.65	.52	.49
25	.44	.31	.88	.25	.40	.67	114.94	109.95	.82	.65	.51	.49
26	106.44	107.40	107.88	111.27	110.32	113.95	114.85	109.79	106.81	106.65	106.51	106.49
27	.44	.38	.87	.23	.23	114.16	.70	.65	.80	.65	.50	.49
28	.44	.36	.85	.15	.11	.40	.58	.45	.80	.64	.50	.49
29	.45	.33	.80	.05	.03	.61	.44	.29	.79	.63	.50	.49
30	.46	.33	.73	110.92	109.97	.83	.31	.10	.79	.63	.50	.49
31		.34		.70	.86		.18		.78	.62		.49
Mean	106.43	106.83	107.93	109.37	110.83	111.84	115.13	111.59	107.17	106.69	106.55	106.50
Max.	106.46	107.40	108.22	111.27	111.70	114.85	115.49	114.04	108.87	106.78	106.61	106.55
Min.	106.39	106.48	107.42	107.40	109.86	109.61	114.18	109.10	106.78	106.62	106.50	106.48

WATER YEAR 1962 : Max. 115.49 m. Min. 106.39 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	20	214	287	1,459	1,111	5,684	3,971	751	64	36	22
2	17	21	248	251	1,419	1,089	6,048	3,761	638	63	35	22
3	17	23	301	226	1,402	1,067	6,104	3,568	460	61	35	22
4	16	26	355	208	1,490	1,667	6,200	3,389	358	59	34	21
5	14	28	382	223	1,628	1,248	6,200	3,220	297	59	32	20
6	14	31	410	257	1,799	1,389	6,152	3,157	223	57	32	20
7	13	34	431	273	1,893	1,446	6,128	2,899	190	57	31	20
8	13	36	438	277	1,958	1,481	6,104	2,735	162	55	31	20
9	12	38	435	280	1,996	1,512	6,104	2,667	150	55	31	20
10	12	44	442	287	2,001	1,560	6,320	2,474	135	54	31	20
11	11	55	455	304	1,992	1,601	6,441	2,371	124	54	30	20
12	11	57	446	386	1,958	1,619	6,562	2,275	118	54	30	23
13	11	54	414	667	1,926	1,646	6,635	2,180	112	54	30	28
14	10	47	407	891	1,875	1,686	6,684	2,079	106	54	28	28
15	10	47	410	990	1,817	1,709	6,733	1,992	100	52	28	27
16	11	45	486	1,057	1,749	1,767	6,782	1,898	96	50	28	25
17	12	44	486	1,147	1,691	1,982	6,782	1,812	94	47	28	23
18	17	45	471	1,248	1,632	2,269	6,733	1,727	92	45	27	21
19	17	59	386	1,384	1,578	2,494	6,635	1,637	86	44	27	21
20	17	63	369	1,534	1,521	2,681	6,514	1,560	84	44	26	21
21	16	68	362	1,610	1,543	2,843	6,344	1,485	82	42	26	21
22	16	80	362	1,655	1,521	2,997	6,152	1,415	80	42	26	21
23	16	88	362	1,695	1,477	3,144	6,070	1,349	78	42	25	21
24	16	120	362	1,722	1,446	3,287	5,750	1,283	76	42	25	21
25	16	181	365	1,794	1,415	3,482	5,516	1,217	72	42	23	21
26	16	208	365	1,803	1,380	3,843	5,287	1,147	70	42	23	21
27	16	202	362	1,785	1,340	4,148	5,044	1,085	68	42	22	21
28	16	196	355	1,749	1,287	4,523	4,825	998	68	41	22	21
29	17	187	358	1,704	1,252	4,878	4,588	930	66	39	21	21
30	18	187	314	1,648	1,226	5,287	4,376	848	66	39	21	21
31	190	190		1,582	1,177		4,177		64	38	21	21
Total	436	2,524	11,531	50,887	49,848	70,856	185,568	63,129	5,166	1,533	802	675
Mean	14.5	81.4	384	997	1,608	2,362	5,989	2,104	167	49.4	28.6	21.7
Max.	18	208	486	1,803	1,901	3,287	6,782	3,971	751	64	36	28
Min.	10	20	214	208	1,177	1,067	4,177	848	64	38	22	20
Runoff - mcm.	37.670	218.874	996	4,389.501	4,306.667	6,121.958	16,091.715	5,454.346	446.342	132.451	69.293	58.320

WATER YEAR 1962 : Max. 6,782 Min. 10 Mean 1,159 Annual Runoff 36,552.816mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 16	18.00	115.49	6,782				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MUNE RIVER BASIN

Huai Samran at Highway Bridge, Si Sa Ket (M.9)

Location: Lat 15°- 07' - 00" N, Long 104°- 19' - 20" E, on left bank downstream side of the bridge, 200 meters north of the city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m.(M.S.L.)

Bench Mark: B.M. - No. 0339

Location: At the bridge on right bank
Elevation: +123.034 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: 1951
Rated by Float: -
Rated by Current Meter: 1951

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elev. +119.51 m.(M.S.L.) but is not included for flow computation.

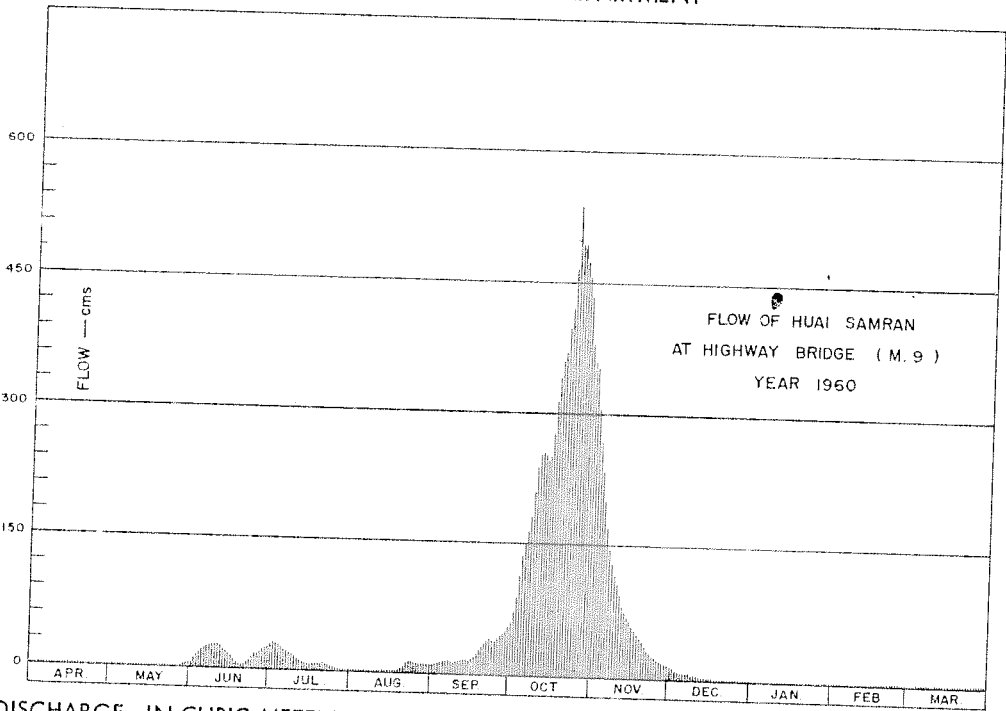
General Description: Stage record good, discharge record fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.29	109.30	111.82	113.46	110.81	112.13	114.91	118.64	112.50	109.86	109.53	109.39
2	.29	.31	112.23	.54	.79	.27	115.32	.40	.37	.85	.52	.39
3	.36	.33	.51	.49	.68	.36	.77	.08	.20	.84	.52	.39
4	.40	.30	.81	.35	.59	.41	116.37	117.78	.05	.83	.52	.38
5	.37	.38	.95	.18	.50	.43	.72	.44	111.94	.83	.52	.37
6	109.34	109.43	113.11	113.06	110.42	112.50	116.90	117.08	111.82	109.82	109.51	109.37
7	.32	.60	.21	112.97	.31	.51	117.11	116.73	.60	.81	.51	.36
8	.32	.60	.26	.87	.29	.46	.33	.45	.75	.80	.50	.36
9	.32	.54	.29	.75	.18	.41	.62	.21	.60	.79	.50	.35
10	.32	.48	.30	.58	.18	.46	.83	.00	.49	.76	.50	.35
11	109.32	109.44	113.27	112.38	110.15	112.55	117.96	115.71	111.37	109.75	109.50	109.35
12	.31	.43	.19	.23	.15	.61	.98	.40	.26	.74	.50	.35
13	.31	.43	.00	.07	.12	.62	.95	.19	.14	.72	.49	.33
14	.31	.42	112.86	111.99	.25	.61	.90	.03	.05	.71	.49	.32
15	.45	.40	.67	.96	.30	.66	.97	114.87	110.95	.69	.48	.32
16	109.44	109.37	112.49	111.89	110.47	112.72	118.26	114.69	110.81	109.66	109.48	109.30
17	.43	.37	.19	.89	.64	.87	118.57	.54	.67	.65	.46	.30
18	.40	.36	111.91	.97	.82	113.08	.75	.37	.49	.63	.46	.29
19	.39	.61	.67	.99	111.15	.35	.87	.18	.43	.61	.46	.29
20	.37	.72	.51	.99	.51	.58	.92	113.99	.40	.59	.45	.29
21	109.36	109.71	111.55	112.08	111.92	113.76	119.10	113.75	110.40	109.59	109.45	109.28
22	.35	.75	.75	111.94	112.22	.87	.30	.48	.35	.58	.44	.31
23	.33	.80	112.20	.78	.31	.96	.55	.30	.22	.57	.44	.33
24	.33	.85	.50	.61	.31	.91	.70	.18	.15	.56	.42	.30
25	.32	110.03	.68	.43	.26	.93	.74	.09	.13	.56	.40	.30
26	109.32	110.26	112.73	111.28	112.20	114.05	119.75	113.00	110.01	109.55	109.43	109.30
27	.31	.64	.92	.12	.16	.15	.61	112.86	109.98	.55	.42	.29
28	.31	.90	113.12	110.92	.15	.26	.49	.80	.90	.54	.41	.29
29	.31	111.18	.21	.91	.11	.44	.32	.70	.82	.54	.42	.29
30	.30	.43	.24	.89	.10	.67	118.94	.60	.78	.53	.42	.29
31		.55		.84	.10		.79		.73	.53		.33
Mean	109.34	109.80	112.64	112.14	111.10	113.12	118.14	115.05	110.92	109.68	109.47	109.33
Max.	109.45	111.55	113.30	113.54	112.31	114.67	119.75	118.64	112.50	109.86	109.53	109.39
Min.	109.29	109.30	111.51	110.84	110.12	112.13	114.91	112.60	109.75	109.53	109.40	109.28

WATER YEAR 1960 : Max. 119.75 m. Min. 109.29 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	6.68	30	1.68	9.73	65	358	14	0.15	0.05	0.02
2	0.00	0.00	11	31	1.62	11	79	306	12	0.14	0.05	0.02
3	0.01	0.01	14	30	1.30	12	96	267	10	0.14	0.05	0.02
4	0.02	0.00	18	28	1.08	13	124	234	8.85	0.14	0.05	0.02
5	0.01	0.02	21	25	0.88	13	145	201	7.76	0.14	0.05	0.01
6	0.01	0.05	23	22	0.73	14	157	170	6.68	0.14	0.04	0.01
7	0.00	0.07	25	21	0.54	14	172	146	6.50	0.13	0.04	0.01
8	0.00	0.07	26	19	0.43	14	191	129	6.03	0.13	0.04	0.01
9	0.00	0.05	26	18	0.37	13	218	116	5.15	0.13	0.04	0.01
10	0.00	0.04	27	15	0.37	14	239	106	4.57	0.12	0.04	0.01
11	0.00	0.03	26	12	0.33	15	253	94	3.95	0.11	0.04	0.01
12	0.00	0.03	25	11	0.33	16	255	81	3.42	0.11	0.04	0.01
13	0.00	0.03	21	9.07	0.30	16	252	74	2.88	0.11	0.04	0.01
14	0.00	0.02	19	8.21	0.47	16	246	68	2.52	0.10	0.04	0.01
15	0.03	0.02	16	7.94	0.52	16	254	64	2.17	0.10	0.04	0.00
16	0.03	0.01	14	7.31	0.82	17	288	58	1.68	0.09	0.04	0.00
17	0.03	0.01	10	7.31	1.20	19	329	54	1.27	0.08	0.03	0.00
18	0.02	0.01	7.49	8.03	1.72	23	353	50	0.86	0.08	0.03	0.00
19	0.02	0.07	5.62	8.21	2.92	28	369	45	0.75	0.07	0.03	0.00
20	0.01	0.11	4.68	8.21	4.68	32	376	41	0.69	0.07	0.03	0.00
21	0.01	0.10	4.89	9.18	7.58	36	400	35	0.69	0.07	0.03	0.00
22	0.01	0.11	6.16	7.76	11	38	428	30	0.60	0.06	0.03	0.00
23	0.01	0.13	10	6.36	12	40	465	27	0.42	0.06	0.03	0.01
24	0.01	0.14	14	5.22	12	39	486	25	0.33	0.06	0.02	0.00
25	0.00	0.22	17	4.26	11	39	492	23	0.31	0.06	0.02	0.00
26	0.00	0.47	17	3.51	10	42	494	21	0.21	0.05	0.03	0.00
27	0.00	1.20	20	2.79	10	45	473	19	0.18	0.05	0.02	0.00
28	0.00	2.00	24	2.07	10	47	456	18	0.16	0.05	0.02	0.00
29	0.00	3.06	25	2.03	9.51	52	431	17	0.14	0.05	0.02	0.00
30	0.00	4.26	26	1.96	9.40	58	379	15	0.12	0.05	0.02	0.00
31	0.00	4.89		1.79	9.40		359		0.11	0.05	0.02	0.01
Total	0.23	17.21	510.52	373.22	134.16	761.73	9,324	2,872	105.00	2.89	1.01	0.19
Mean	0.01	0.55	17.0	12.0	4.33	25.3	301	95.7	3.39	0.09	0.04	0.01
Max.	0.03	4.89	27	31	12	58	494	338	14	0.15	0.05	0.02
Min.	0.00	0.00	4.68	1.79	0.30	9.73	65	15	0.11	0.05	0.02	0.00
Runoff - mcm.	0.020	1.487	44.109	32.246	11.591	65.813	805.594	248.141	9.072	0.250	0.087	0.016

WATER YEAR 1960 : Max. 494 Min. 0.00 Mean 38.6 Annual Runoff 1,218,427 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	06.00	119.75	494				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MUNE RIVER BASIN

Huai Samran at Highway Bridge, Si Sa Ket (M.9)

Location: Lat 15°-07'-00" N, Long 104°-19'-20" E, on left bank downstream side of the bridge, 200 meters north of the city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m.(M.S.L.)

Bench Mark: B.M. - No.0339

Location: At the bridge on right bank.
Elevation: +123.034 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: 1951
Rated by Float: -
Rated by Current Meter: 1951

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Stage record good, discharge record fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No diversions for irrigation above gage site.

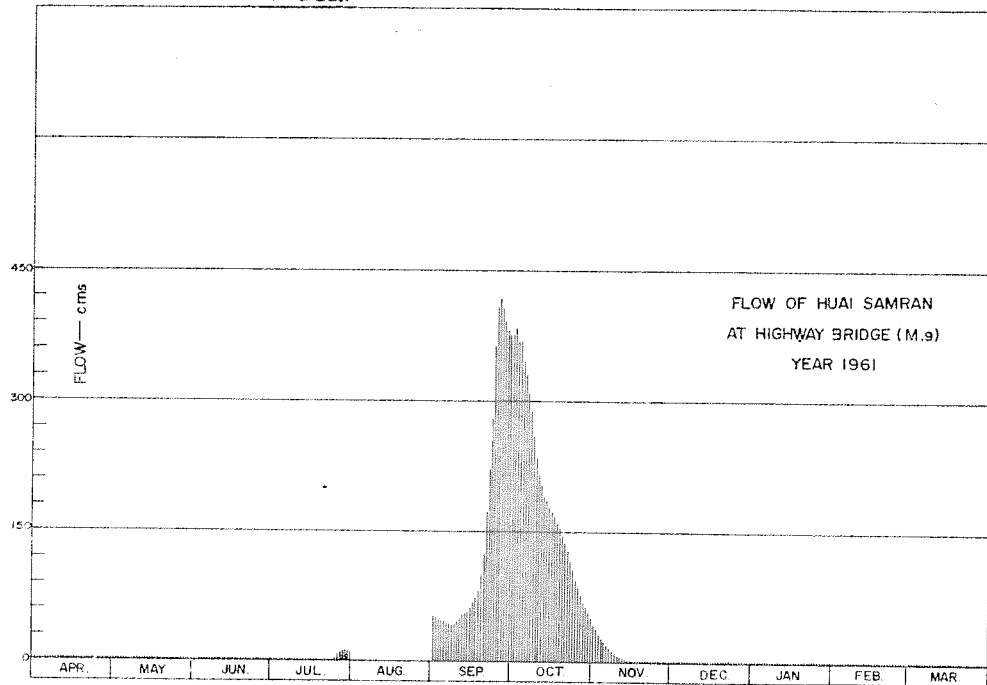
Remarks: No gage height record for Aug. 1 - 31, 1961.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.31	109.54	109.29	109.42		114.50	118.93	114.17	110.15	109.88	109.54	109.38
2	.31	.53	.29	.48		.45	.98	113.94	.13	.87	.52	.37
3	.31	.52	.43	.50		.39	.86	.70	.10	.87	.51	.37
4	.31	.52	.60	.50		.32	.87	.44	.08	.86	.50	.36
5	.30	.62	.97	.50		.27	.71	.20	.07	.85	.49	.35
6	109.29	109.69	109.89	110.08		114.18	118.58	112.98	110.06	109.84	109.48	109.34
7	.29	.60	.89	.24		.16	.42	.75	.06	.83	.48	.33
8	.29	.59	.86	.20		.13	.21	.55	.05	.82	.47	.33
9	.29	.51	110.01	.24		.11	117.97	.36	.04	.82	.46	.33
10	.29	.48	109.93	.22		.27	.79	.17	.03	.81	.44	.32
11	109.28	109.44	109.79	110.21		114.39	117.60	111.98	110.03	109.81	109.44	109.32
12	.28	.41	.70	.24		.64	.45	.81	.02	.80	.43	.32
13	.34	.40	.68	.32		.65	.32	.64	.01	.80	.43	.31
14	.30	.40	.66	.37		.68	.25	.52	.01	.79	.42	.31
15	.29	.39	.64	.40		.85	.16	.42	.00	.78	.41	.31
16	109.29	109.44	109.56	110.35		115.08	117.10	111.31	110.00	109.77	109.40	109.96
17	.29	.40	.51	.32		.25	.04	.23	109.99	.76	.39	.80
18	.29	.40	.49	.36		.45	116.95	.13	.99	.76	.39	.67
19	.29	.38	.45	.37		.88	.86	.05	.98	.75	110.18	.57
20	.29	.36	.43	.35		116.37	.74	110.98	.97	.74	.16	.51
21	109.28	109.35	109.41	110.30		117.10	116.60	110.93	109.97	109.73	109.98	109.46
22	.40	.34	.40	.67		.68	.43	.87	.96	.69	.83	.41
23	.31	.39	.40	.94		118.18	.23	.80	.95	.68	.72	.38
24	.29	.35	.39	.96		.83	.01	.71	.94	.65	.60	.37
25	.29	.34	.41	111.70		119.17	115.77	.66	.94	.63	.50	.37
26	109.38	109.31	109.40	112.12		119.23	115.54	110.60	109.93	109.62	109.43	109.36
27	.39	.31	.39	.35		.14	.30	.54	.92	.60	.40	.35
28	.56	.30	.38	.41		.04	.07	.46	.92	.58	.39	.34
29	.61	.30	.41	.45		118.96	114.85	.40	.91	.57		.33
30	.60	.30	.41	.40		.91	.63	.30	.90	.57		.32
31		.29		.31			.41		.89	.55		.32
Mean	109.33	109.42	109.57	110.65		116.01	117.02	111.72	110.00	109.74	109.55	109.40
Max.	109.61	109.69	110.01	112.45		119.23	118.98	114.17	110.15	109.88	110.18	109.96
Min.	109.28	109.29	109.29	109.42		114.11	114.41	110.30	109.89	109.55	109.39	109.31

WATER YEAR 1961 : Max. 119.23 m. Min. 109.28 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.05	0.00	0.02		53	377	45	0.33	0.15	0.05	0.02
2	0.00	0.05	0.00	0.04		52	384	40	0.31	0.15	0.05	0.01
3	0.00	0.05	0.03	0.04		51	368	34	0.28	0.15	0.04	0.01
4	0.00	0.05	0.07	0.04		49	369	29	0.26	0.15	0.04	0.01
5	0.00	0.08	0.18	0.04		48	348	25	0.26	0.14	0.04	0.01
6	0.00	0.10	0.16	0.26		45	330	21	0.25	0.14	0.04	0.01
7	0.00	0.07	0.16	0.44		45	309	18	0.25	0.14	0.04	0.01
8	0.00	0.07	0.15	0.39		44	282	15	0.24	0.14	0.03	0.01
9	0.00	0.04	0.21	0.44		44	254	12	0.23	0.14	0.03	0.01
10	0.00	0.04	0.17	0.42		48	235	10	0.22	0.13	0.03	0.00
11	0.00	0.03	0.13	0.40		51	216	8.12	0.22	0.13	0.03	0.00
12	0.00	0.02	0.10	0.44		57	202	6.59	0.22	0.13	0.03	0.00
13	0.01	0.02	0.09	0.55		57	190	5.42	0.21	0.13	0.03	0.00
14	0.00	0.02	0.09	0.64		58	184	4.73	0.21	0.13	0.02	0.00
15	0.00	0.02	0.08	0.69		63	176	4.20	0.20	0.12	0.02	0.00
16	0.00	0.03	0.06	0.60		70	172	3.65	0.20	0.12	0.02	0.18
17	0.00	0.02	0.04	0.55		76	167	3.28	0.19	0.12	0.02	0.13
18	0.00	0.02	0.04	0.62		83	160	2.83	0.19	0.12	0.02	0.09
19	0.00	0.02	0.03	0.64		101	154	2.52	0.18	0.11	0.37	0.06
20	0.00	0.01	0.03	0.60		124	146	2.28	0.18	0.11	0.35	0.04
21	0.00	0.01	0.02	0.52		172	137	2.10	0.18	0.11	0.18	0.03
22	0.02	0.01	0.02	1.27		224	128	1.89	0.18	0.10	0.14	0.02
23	0.00	0.02	0.02	2.14		279	117	1.65	0.17	0.09	0.11	0.02
24	0.00	0.01	0.02	2.21		364	107	1.38	0.17	0.08	0.07	0.01
25	0.00	0.01	0.02	5.82		410	96	1.25	0.17	0.08	0.04	0.01
26	0.02	0.00	0.02	9.62		418	87	1.10	0.17	0.08	0.03	0.01
27	0.02	0.00	0.02	12		406	78	0.97	0.17	0.07	0.02	0.01
28	0.06	0.00	0.02	13		392	70	0.80	0.17	0.06	0.02	0.01
29	0.07	0.00	0.02	13		382	63	0.69	0.16	0.06		0.01
30	0.07	0.00	0.02	13		375	57	0.52	0.16	0.06		0.00
31		0.00	0.02	12			51		0.16	0.05		0.00
Total	0.27	0.87	2.02	92.44		4,641	6,014	304.97	6.49	3.49	1.91	0.73
Mean	0.01	0.03	0.07	2.98		155	194	10.2	0.21	0.11	0.07	0.02
Max.	0.07	0.10	0.21	13		418	384	45	0.33	0.15	0.37	0.18
Min.	0.00	0.00	0.00	0.02		44	51	0.52	0.16	0.05	0.02	0.00
Runoff - mcm.	0.023	0.075	0.174	7.987		400.982	519.610	26.349	0.561	0.301	0.165	0.053

WATER YEAR 1961 : Max. 418 Min. 0.00 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	18.00	119.25	421				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MUNE RIVER BASIN

Huai Samran at Highway Bridge, Si Sa Ket (M.9)

Location: Lat $15^{\circ} - 07' - 00''$ N, Long $104^{\circ} - 19' - 20''$ E, on left bank downstream side of the bridge 200 meters north of the city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m.(M.S.L.)

Bench Mark: B.M. - No.0539

Location: At the bridge on right bank
Elevation: +123.034 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: 1951
Rated by Float: -
Rated by Current Meter: 1951

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: Overbank flow was observed at elev. +119.51 m.(M.S.L.) but is not included for flow computation.

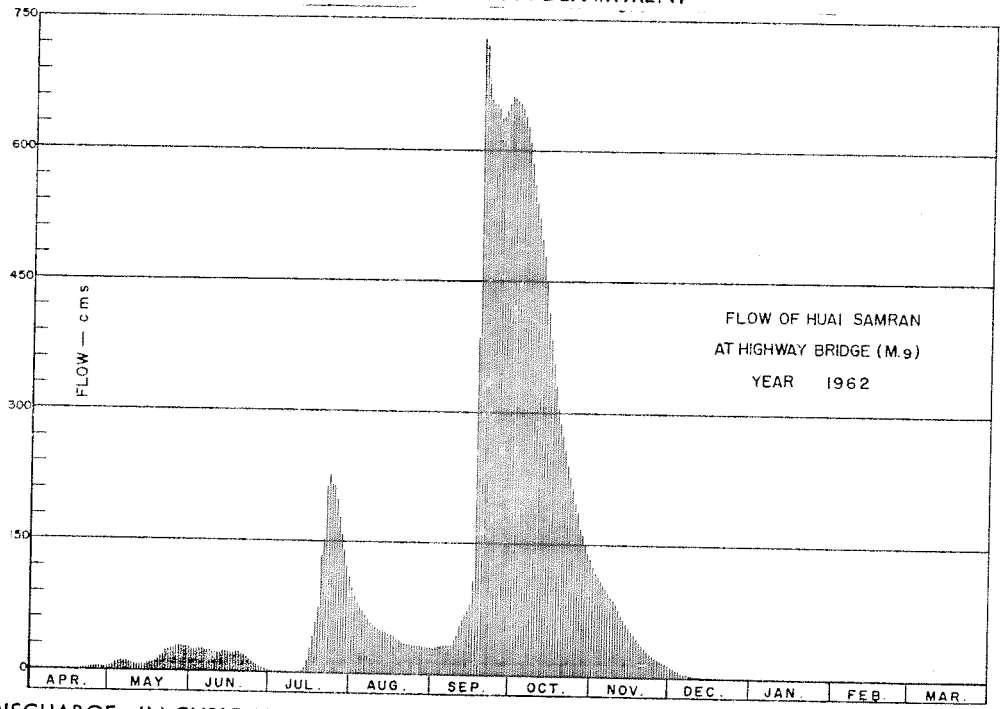
General Description: Stage record good, discharge record fair. Stage - discharge relationship used is defined by discharge measurements during 1951. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.31	111.61	113.19	111.06	115.78	113.45	120.68	116.36	112.24	109.60	109.51	109.41
2	.31	.90	.18	110.85	.53	.48	.66	.23	.08	.59	.51	.41
3	.31	112.16	.26	.67	.35	.60	.63	.14	111.95	.58	.50	.41
4	.30	.29	.27	.45	.18	.64	.90	.05	.80	.58	.50	.40
5	.30	.34	.24	.24	.07	.63	.53	115.92	.55	.57	.46	.40
6	109.28	112.29	113.22	110.04	114.93	113.62	120.43	115.83	111.38	109.57	109.52	109.39
7	.29	.26	.17	109.91	.78	.63	.32	.72	.26	.56	.52	.39
8	.30	.19	.14	.92	.60	.69	.20	.63	.14	.56	.52	.38
9	.37	.07	.11	110.04	.48	.91	.08	.51	.06	.56	.51	.38
10	.50	111.93	.10	.23	.40	114.21	119.94	.39	110.89	.55	.51	.39
11	109.75	111.85	113.06	110.47	114.35	114.58	119.78	115.23	110.81	109.55	109.50	109.45
12	.93	.80	.01	.78	.51	.85	.61	.05	.73	.54	.49	.44
13	.99	.84	.16	111.24	.27	115.05	.38	114.86	.66	.54	.49	.43
14	110.05	.89	.15	.85	.23	.20	.17	.70	.57	.53	.48	.43
15	.10	112.07	.11	112.53	.17	.39	118.98	.55	.51	.53	.47	.42
16	110.27	112.16	113.02	113.30	114.14	115.59	118.76	114.37	110.42	109.52	109.47	109.41
17	.26	.18	.05	114.05	.09	118.99	.57	.20	.32	.52	.46	.41
18	.26	.30	.13	.68	113.96	121.04	.37	.05	.24	.52	.45	.40
19	.48	.48	.11	.86	.87	.00	.23	113.88	.15	.51	.45	.40
20	.80	.66	112.89	116.56	.79	120.81	.10	.75	.09	.48	.44	.40
21	111.05	112.88	112.87	116.83	113.71	120.69	117.98	113.58	110.04	109.49	109.43	109.39
22	.09	113.15	.69	117.58	.70	.66	.80	.37	109.98	.57	.43	.39
23	.14	.22	.50	.71	.69	.66	.69	.22	.91	.57	.42	.39
24	.31	.25	.34	.60	.65	.64	.54	.08	.83	.56	.38	.38
25	.38	.30	.16	.59	.62	.58	.39	112.96	.77	.55	.45	.38
26	111.42	113.36	112.01	117.42	113.58	120.59	117.26	112.85	109.72	109.54	109.44	109.38
27	.40	.41	111.82	.20	.56	.62	.07	.76	.70	.52	.43	.44
28	.36	.41	.63	116.91	.55	.66	116.93	.67	.68	.52	.42	.43
29	.35	.40	.43	.57	.53	.71	.79	.55	.65	.53	.42	.42
30	.46	.37	.24	.31	.50	.71	.62	.39	.62	.52	.42	.42
31		.35		.02	.46		.48		.60	.52		.41
Mean	110.27	112.53	112.78	113.60	114.22	117.20	118.79	114.43	110.56	109.54	109.47	109.40
Max.	111.46	113.41	113.27	117.71	115.78	121.04	120.68	116.36	112.24	109.60	109.52	109.45
Min.	109.28	111.61	111.24	109.91	113.46	113.45	116.48	112.39	109.60	109.48	109.38	109.38

WATER YEAR 1962 : Max. 121.04 m. Min. 109.28 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	5.22	25	2.56	97	29	656	124	11	0.07	0.04	0.02
2	0.00	7.40	25	1.82	86	30	652	117	9.18	0.07	0.04	0.02
3	0.00	10	26	1.27	80	32	646	113	7.85	0.06	0.04	0.02
4	0.00	11	26	0.78	74	33	638	108	6.50	0.06	0.04	0.02
5	0.00	12	26	0.44	70	33	626	103	4.89	0.06	0.03	0.02
6	0.00	11	25	0.23	65	33	606	99	4.00	0.06	0.05	0.02
7	0.00	11	24	0.16	61	33	584	94	3.42	0.06	0.05	0.02
8	0.00	10	24	0.17	56	34	560	90	2.88	0.06	0.05	0.02
9	0.01	9.07	22	0.23	53	39	538	86	2.35	0.06	0.04	0.02
10	0.04	7.65	23	0.45	51	46	521	81	1.96	0.05	0.04	0.02
11	0.11	6.95	22	0.82	50	55	498	75	1.68	0.05	0.04	0.03
12	0.17	6.50	22	1.59	49	63	473	69	1.44	0.05	0.04	0.03
13	0.19	6.86	24	3.33	48	69	440	63	1.25	0.05	0.04	0.03
14	0.24	7.31	24	6.95	47	74	410	59	1.03	0.05	0.04	0.03
15	0.28	9.07	23	14	45	81	384	55	0.90	0.05	0.03	0.02
16	0.48	10	22	27	44	89	355	50	0.73	0.05	0.03	0.02
17	0.47	10	22	42	43	386	329	46	0.55	0.05	0.03	0.02
18	0.47	12	24	58	40	728	302	42	0.44	0.05	0.03	0.02
19	0.84	14	23	65	38	720	285	38	0.33	0.04	0.03	0.02
20	1.65	16	21	135	36	682	269	35	0.27	0.04	0.03	0.02
21	2.52	19	19	152	35	658	255	32	0.23	0.04	0.03	0.02
22	2.66	24	17	214	34	652	236	28	0.18	0.06	0.03	0.02
23	2.88	25	14	227	34	652	225	25	0.16	0.06	0.02	0.02
24	3.65	26	12	216	33	648	210	23	0.14	0.06	0.02	0.02
25	4.00	27	10	215	33	636	196	21	0.12	0.05	0.03	0.02
26	4.20	28	8.41	199	32	636	185	19	0.11	0.05	0.03	0.02
27	4.10	29	6.68	179	32	644	169	18	0.10	0.05	0.03	0.03
28	3.90	29	5.35	158	31	652	159	16	0.09	0.05	0.02	0.03
29	3.85	28	4.26	136	31	662	149	15	0.08	0.05	0.02	0.02
30	4.41	28	3.33	121	30	662	139	13	0.08	0.05	0.02	0.02
31		28		107	30		131		0.07	0.05		0.02
Total	41.12	484.05	573.03	2,283.78	1,488	9,793	11,826	1,757	64.01	1.66	0.97	0.68
Mean	1.37	15.6	19.1	73.7	48.0	326	381	58.5	2.06	0.05	0.03	0.02
Max.	4.41	29	26	227	97	728	656	124	11	0.07	0.05	0.03
Min.	0.00	5.22	3.33	0.16	30	29	131	13	0.07	0.04	0.02	0.02
Runoff - mcm.	3.553	41.822	49.510	197.318	128.563	846.115	1,021.766	151.805	5.530	0.143	0.084	0.059

WATER YEAR 1962 : Max. 728 Min. 0.00 Mean 77.6 Annual Runoff 2,446.269 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 18	15.00	121.10	740				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
MUNE RIVER BASIN

Mune River at Kaeng Sa Phu, Ubon Ratchathani (M.11)

Location: Lat 15°-14'-46" N, Long 105°-14'-38" E, on right bank 200 meters downstream from the office of Amphoe Phibun Mangsahan and 100 meters downstream from Kaeng Sa Phu, Ubon Ratchathani.

Drainage Area: 112,190 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +101.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. referred to B.M. of Mapping Dept. Thai Army No.148/2476

Location: Near the road in front of Thai Government Saving Bank.

Elevation: +113.572 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951

Rated by Float: -

Rated by Current Meter: 1951

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow.

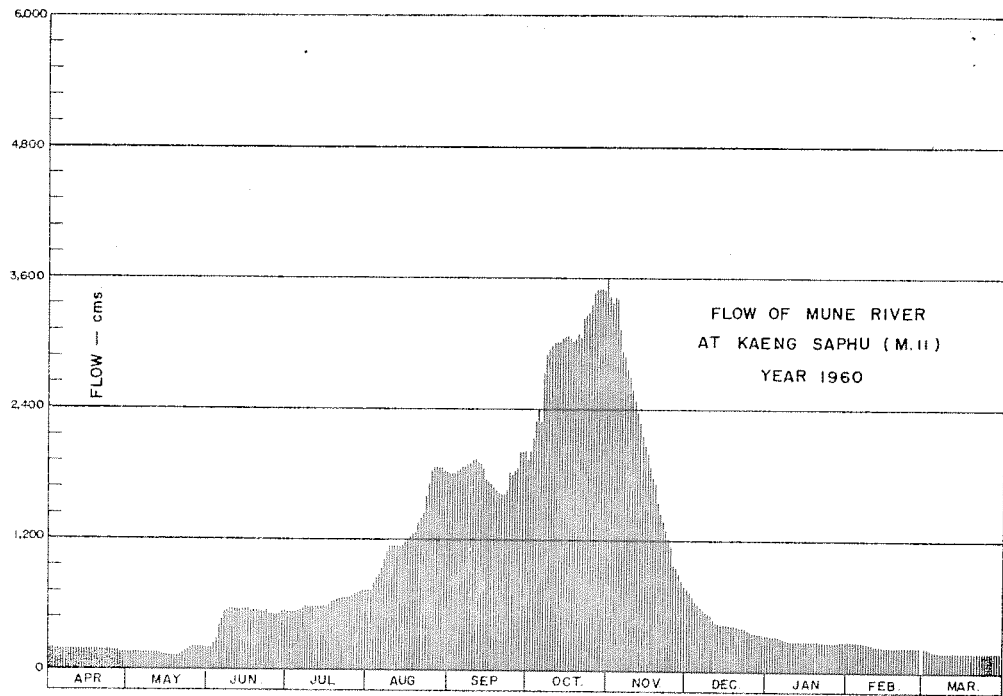
General Description: Records poor. Stage - discharge relationship used is defined by discharge measurements made for period 1951. No upstream diversions for irrigation except those for series of tank irrigation.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.44	106.38	106.48	107.09	107.42	108.78	108.90	110.21	107.45	106.72	106.59	106.50
2	.44	.38	.48	.09	.42	.78	.99	.17	.40	.71	.59	.48
3	.43	.38	.55	.09	.53	.78	109.08	.11	.32	.70	.59	.45
4	.43	.38	.65	.09	.61	.80	.25	.10	.24	.69	.59	.44
5	.42	.38	.88	.10	.65	.82	.30	109.97	.21	.68	.59	.43
6	106.42	106.38	106.98	107.12	107.73	108.84	109.25	109.79	107.17	106.66	106.59	106.42
7	.42	.38	107.08	.14	.84	.84	.62	.74	.13	.65	.57	.40
8	.42	.38	.10	.16	.93	.86	.76	.67	.09	.63	.56	.40
9	.42	.38	.14	.16	108.00	.88	.80	.58	.07	.62	.55	.40
10	.42	.38	.13	.16	.00	.90	.84	.48	.04	.61	.54	.40
11	106.42	106.37	107.12	107.16	108.00	108.90	109.86	109.40	106.97	106.60	106.53	106.40
12	.42	.36	.12	.16	.00	.88	.88	.30	.92	.60	.52	.40
13	.42	.35	.12	.16	.00	.86	.88	.22	.91	.60	.50	.40
14	.42	.33	.12	.16	.03	.82	.90	.12	.90	.60	.50	.40
15	.42	.33	.12	.18	.06	.72	.92	.03	.90	.60	.50	.40
16	106.42	106.33	107.12	107.19	108.08	108.70	109.92	108.95	106.90	106.60	106.50	106.40
17	.42	.33	.11	.20	.12	.68	.90	.83	.89	.60	.50	.40
18	.42	.35	.11	.24	.15	.63	.88	.73	.88	.60	.50	.40
19	.42	.33	.10	.26	.18	.61	.90	.68	.87	.60	.50	.40
20	.42	.33	.10	.28	.28	.59	.94	.51	.86	.60	.50	.40
21	106.42	106.34	107.10	107.30	108.33	108.58	109.90	108.39	106.85	106.60	106.50	106.40
22	.42	.38	.09	.30	.38	.57	110.06	.30	.83	.60	.50	.40
23	.42	.40	.08	.30	.58	.64	.08	.20	.82	.59	.50	.40
24	.42	.42	.06	.32	.69	.78	.10	.10	.80	.59	.50	.40
25	.42	.46	.05	.33	.80	.88	.15	.00	.78	.59	.50	.40
26	106.41	106.48	107.04	107.35	108.83	108.93	110.22	107.89	106.77	106.59	106.50	106.40
27	.40	.48	.04	.37	.83	.95	.27	.73	.76	.59	.50	.40
28	.39	.48	.06	.39	.83	.98	.28	.66	.75	.59	.50	.40
29	.38	.48	.08	.40	.83	.98	.29	.56	.74	.59	.50	.40
30	.38	.48	.09	.41	.80	.99	.27	.49	.73	.59	.50	.40
31		.48		.41	.78		.25		.72	.59		.40
Mean	106.42	106.42	107.01	107.23	108.18	108.80	109.83	108.93	106.96	106.62	106.53	106.41
Max.	106.44	106.48	107.14	107.41	108.83	108.99	110.29	110.21	107.45	106.72	106.59	106.50
Min.	106.38	106.33	106.48	107.09	107.42	108.57	108.90	107.49	106.72	106.59	106.50	106.40

WATER YEAR 1960 : Max. 110.29 m. Min. 106.33 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	190	161	210	539	738	1,805	1,925	3,417	757	331	265	220
2	190	161	210	539	738	1,805	2,015	3,369	725	325	265	210
3	185	161	245	539	809	1,805	2,105	3,297	677	320	265	195
4	185	161	295	539	861	1,825	2,297	3,265	629	315	265	190
5	180	161	419	545	887	1,845	2,355	3,129	611	310	265	185
6	180	161	474	557	941	1,865	2,297	2,918	587	300	265	180
7	180	161	533	569	1,020	1,865	2,723	2,861	563	295	255	170
8	180	161	545	581	1,087	1,885	2,884	2,780	539	285	250	170
9	180	161	569	581	1,140	1,905	2,930	2,677	527	280	245	170
10	180	161	563	581	1,140	1,925	2,976	2,562	509	275	240	170
11	180	156	557	581	1,140	1,925	2,999	2,470	468	270	235	170
12	180	152	557	581	1,140	1,905	3,022	2,355	441	270	230	170
13	180	147	557	581	1,140	1,885	3,022	2,263	435	270	220	170
14	180	138	557	581	1,162	1,845	3,045	2,147	430	270	220	170
15	180	138	557	593	1,185	1,745	3,069	2,055	430	270	220	170
16	180	138	557	599	1,200	1,725	3,069	1,975	430	270	220	170
17	180	138	551	605	1,231	1,707	3,045	1,855	424	270	220	170
18	180	138	551	629	1,255	1,662	3,022	1,755	419	270	220	170
19	180	138	545	641	1,279	1,644	3,045	1,707	413	270	220	170
20	160	138	545	653	1,359	1,626	3,093	1,554	408	270	220	170
21	180	143	545	665	1,399	1,617	3,045	1,450	402	270	220	170
22	180	161	539	665	1,442	1,608	3,237	1,375	391	270	220	170
23	180	170	553	665	1,617	1,671	3,261	1,295	386	265	220	170
24	180	160	521	677	1,716	1,805	3,285	1,215	375	265	220	170
25	180	200	515	683	1,825	1,905	3,345	1,140	364	265	220	170
26	175	210	509	695	1,855	1,955	3,429	1,057	358	265	220	170
27	170	210	509	707	1,855	1,975	3,489	941	353	265	220	170
28	165	210	521	719	1,855	2,005	3,501	894	347	265	220	170
29	161	210	533	725	1,855	2,005	3,513	829	342	265	220	170
30	161	210	539	731	1,825	2,015	3,489	783	336	265	220	170
31	161	210	539	731	1,805	2,015	3,465	783	331	265	220	170
Total	5,362	5,145	14,881	19,727	40,501	54,760	91,997	61,410	14,076	8,661	6,565	5,430
Mean	179	166	496	636	1,306	1,825	2,967	2,047	454	279	234	175
Max.	190	210	569	731	1,855	2,015	3,513	3,417	757	331	265	220
Min.	161	138	210	539	738	1,608	1,925	783	331	265	220	170
Runoff - mcm.	463.277	444.528	1,285.718	1,704.413	3,499.286	4,731.264	7,948.541	5,305.824	1,216.166	748.310	567.216	469.152

WATER YEAR 1960 : Max. 3,513 Min. 138 Mean 90 Annual Runoff 28,383.696 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	06.00	110.29	3,513				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT**

**WATER YEAR 1961
MUNE RIVER BASIN**

Mune River at Kaeng Sa Phu, Ubon Ratchathani (M.11)

Location: Lat 15°-14' - 46" N, Long 105°-14' - 38" E, on right bank 200 meters downstream from the office of Amphoe Phibun Mangsahan and 100 meters downstream from Kaeng Sa Phu, Ubon Ratchathani.

Drainage Area: 112,190 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +101.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. referred to B.M. of Mapping Dept. Thai Army No.148/2476

Location: Near the road in front of Thai Government Saving Bank.

Elevation: +113.572 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951

Rated by Float: -

Rated by Current Meter: 1951

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual rating.

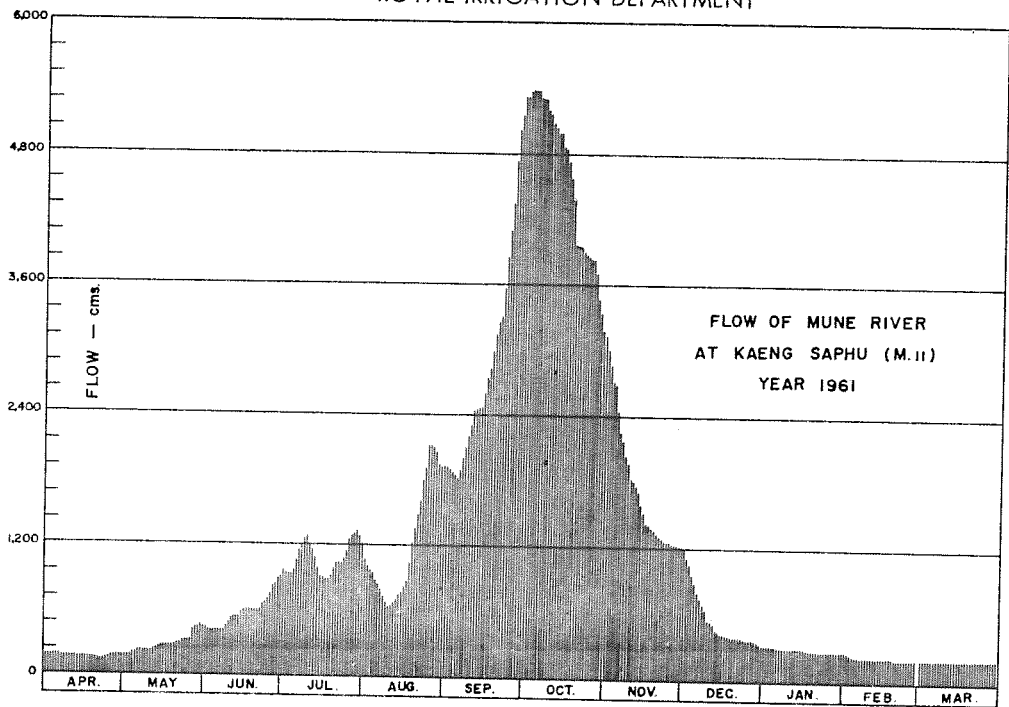
Overbank flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relationship used is defined by discharge measurements made for period 1951. No upstream diversions for irrigation except those for series of tank irrigation.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.40	106.40	106.92	107.78	107.95	108.90	111.65	109.88	108.08	106.70	106.60	106.47
2	.40	.42	.90	.77	.83	.88	.65	.74	107.97	.70	.58	.47
3	.40	.44	.88	.75	.78	.85	.58	.62	.88	.70	.55	.47
4	.40	.47	.87	.74	.75	.83	.58	.59	.75	.70	.53	.47
5	.40	.49	.87	.79	.64	.80	.60	.38	.65	.69	.52	.47
6	106.40	106.50	106.87	107.90	107.58	108.88	111.59	109.22	107.51	106.68	106.51	106.47
7	.39	.50	.87	108.02	.51	.99	.59	.15	.43	.67	.50	.47
8	.39	.50	.90	.08	.40	109.09	.53	.02	.32	.66	.50	.47
9	.39	.50	.95	.16	.35	.18	.50	108.95	.25	.66	.50	.47
10	.39	.50	107.02	.20	.27	.27	.45	.80	.10	.66	.50	.47
11	106.38	106.52	107.08	108.11	107.28	109.38	111.42	108.78	107.08	106.66	106.50	106.47
12	.38	.53	.10	.03	.35	.39	.38	.74	.04	.66	.50	.47
13	.38	.55	.10	107.95	.38	.40	.38	.68	106.95	.66	.50	.47
14	.38	.57	.10	.80	.46	.41	.30	.55	.92	.66	.50	.47
15	.38	.59	.17	.70	.48	.51	.28	.48	.90	.65	.50	.47
16	106.37	106.60	107.20	107.68	107.55	109.65	111.15	108.37	106.88	106.64	106.50	106.47
17	.37	.60	.20	.66	.65	.72	.10	.34	.97	.63	.50	.47
18	.36	.60	.20	.66	.88	.85	110.95	.31	.86	.62	.50	.47
19	.36	.61	.20	.72	108.12	.97	.65	.27	.85	.62	.50	.47
20	.35	.63	.20	.80	.28	110.07	.63	.24	.85	.61	.49	.47
21	106.35	106.65	107.20	107.88	108.44	110.12	110.62	108.21	106.85	106.60	106.47	106.47
22	.35	.67	.22	.88	.58	.33	.60	.18	.84	.60	.47	.47
23	.35	.69	.28	.88	.78	.56	.58	.17	.83	.60	.47	.47
24	.37	.70	.32	.92	.90	.75	.57	.15	.81	.60	.47	.47
25	.39	.71	.38	108.03	109.10	.92	.55	.15	.80	.60	.47	.47
26	106.40	106.72	107.45	108.15	109.09	111.20	110.55	108.14	106.80	106.60	106.47	106.47
27	.40	.88	.55	.20	.08	.40	.45	.13	.80	.60	.47	.47
28	.40	.91	.60	.22	.04	.50	.25	.12	.78	.60	.47	.47
29	.40	.93	.68	.24	108.92	.60	.15	.11	.75	.60	.47	.47
30	.40	.96	.72	.20	.90	.60	.02	.10	.73	.60	.47	.47
31		.94		.11	.90		109.98		.70	.60		.47
Mean	106.38	106.62	107.17	107.93	108.07	109.87	111.01	108.65	107.09	106.64	106.50	106.47
Max.	106.40	106.96	107.72	108.24	109.10	111.60	111.65	109.88	108.08	106.70	106.60	106.47
Min.	106.35	106.40	106.87	107.66	107.27	108.80	109.98	108.10	106.70	106.60	106.47	106.47

WATER YEAR 1961 : Max. 111.65 m. Min. 106.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	170	170	441	976	1,102	1,925	5,372	3,022	1,200	320	270	205
2	170	180	430	969	1,017	1,905	5,372	2,861	1,117	320	260	205
3	170	190	419	955	976	1,875	5,274	2,723	1,050	320	245	205
4	170	205	413	948	955	1,855	5,274	2,686	955	320	235	205
5	170	215	413	983	881	1,825	5,305	2,447	887	315	230	205
6	170	220	413	1,065	842	1,905	5,289	2,263	796	310	225	205
7	165	220	413	1,155	796	2,015	5,289	2,181	744	305	220	205
8	165	220	430	1,200	725	2,115	5,198	2,045	677	300	220	205
9	165	220	457	1,263	695	2,216	5,150	1,975	635	300	220	205
10	165	220	497	1,295	647	2,320	5,082	1,825	545	300	220	205
11	161	230	533	1,223	553	2,447	5,036	1,805	533	300	220	205
12	161	230	545	1,162	695	2,458	4,974	1,765	509	300	220	205
13	161	245	545	1,102	713	2,470	4,974	1,707	457	300	220	205
14	161	255	545	990	764	2,481	4,850	1,590	441	300	220	205
15	161	265	587	920	777	2,596	4,831	1,528	430	295	220	205
16	156	270	605	907	822	2,757	4,645	1,433	419	290	220	205
17	156	270	605	894	887	2,838	4,575	1,408	413	285	220	205
18	152	270	605	894	1,050	2,887	4,377	1,383	408	280	220	205
19	152	275	605	934	1,231	3,129	3,960	1,351	402	280	220	205
20	147	285	605	990	1,359	3,249	3,934	1,327	402	275	215	205
21	147	295	605	1,050	1,494	3,309	3,921	1,303	402	270	205	205
22	147	305	617	1,050	1,617	3,561	3,895	1,279	397	270	205	205
23	147	315	653	1,050	1,805	3,845	3,870	1,271	391	270	205	205
24	156	320	677	1,080	1,925	4,095	3,857	1,255	380	270	205	205
25	165	325	713	1,162	2,125	4,334	3,832	1,255	375	270	205	205
26	170	331	757	1,255	2,115	4,715	3,832	1,247	375	270	205	205
27	170	419	822	1,295	2,105	5,005	3,707	1,239	375	270	205	205
28	170	435	855	1,311	2,065	5,150	3,465	1,231	364	270	205	205
29	170	446	907	1,327	1,945	5,305	3,345	1,223	347	270	205	205
30	170	463	934	1,295	1,925	5,305	3,189	1,215	336	270	205	205
31		452		1,223	1,925		3,141		320	270		205
Total	4,860	8,761	17,646	33,923	58,628	91,992	138,813	51,845	17,082	8,985	6,180	6,355
Mean	162	283	586	1,094	1,246	3,066	4,478	1,728	551	290	221	205
Max.	170	463	934	1,327	2,125	5,305	5,372	3,022	1,200	320	270	205
Min.	147	170	413	894	647	1,825	3,141	1,215	320	270	205	205
Runoff - mm.	419.904	756.950	1,524.614	2,430.947	5,337.459	7,946.109	11,993.443	4,479.408	1,475.885	776.304	533.952	549.072

WATER YEAR 1961 : Max. 5,372 Min. 147 Mean 1,165 Annual Runoff 36,726.048 mm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	12.00	111.65	5,372				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

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WATER YEAR 1962
MUNE RIVER BASIN

Mune River at Kaeng Sa Phu, Ubon Ratchathani (M.11)

Location: Lat 15°-14' - 46" N, Long 105°-14' - 36" E, on right bank 200 meters downstream from the office of Amphoe Phibun Mangsahan and 100 meters downstream from Kaeng Sa Phu, Ubon Ratchathani.

Drainage Area: 112,190 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +101.00 m.(M.S.L.)

Bench Mark: B.M. - H.S. referred to B.M. of Mapping Dept. Thai Army No.148/2476

Location: Near the road in front of Thai Government Saving Bank.

Elevation: +113.572 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951

Rated by Float: -

Rated by Current Meter: 1951

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relationship used is defined by discharge measurements made for period 1951. No upstream diversions for irrigation except those for series of tank irrigation.

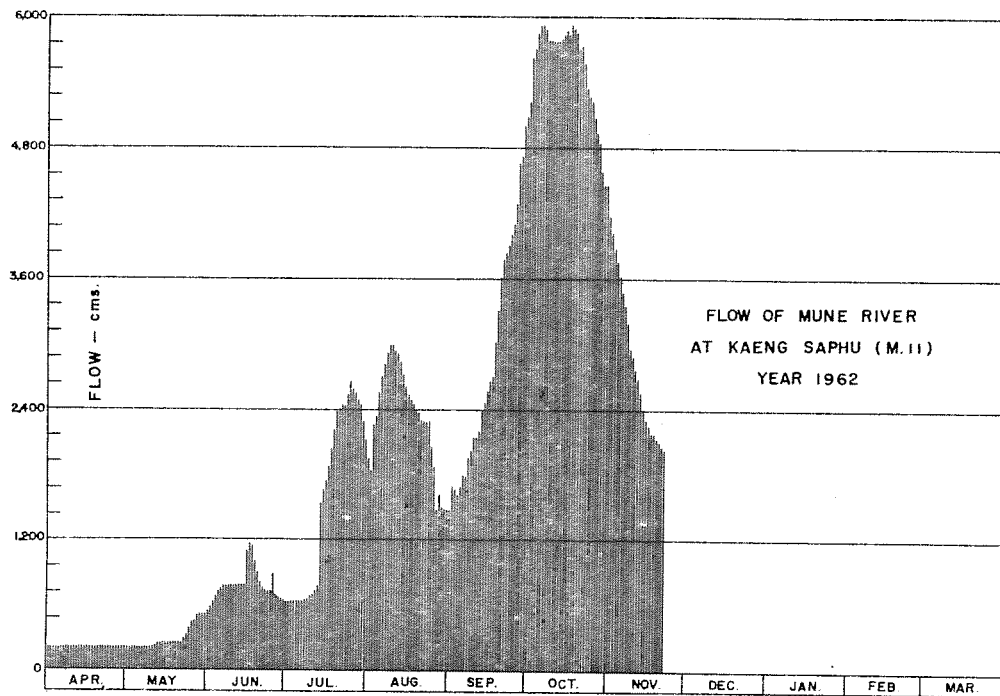
Remarks: No gage height records on Nov.23, 1962 - Mar.31, 1963.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.47	106.47	107.10	107.26	108.92	108.40	111.70	110.80				
2	.47	.47	.10	.26	.82	.38	.80	.70				
3	.47	.47	.25	.26	109.22	.35	.86	.58				
4	.47	.47	.33	.26	.38	.30	.95	.48				
5	.47	.47	.42	.26	.48	.38	.90	.38				
6	106.47	106.47	107.46	107.26	109.60	108.51	112.00	110.25				
7	.47	.47	.48	.26	.68	.77	111.98	.14				
8	.47	.47	.48	.28	.78	.93	.90	.02				
9	.47	.47	.48	.30	.85	109.11	.90	109.82				
10	.47	.49	.49	.35	.85	.20	.90	.75				
11	106.47	106.50	107.50	107.38	109.80	109.29	111.90	109.65				
12	.47	.53	.50	.44	.78	.28	.90	.58				
13	.47	.55	.50	.48	.72	.32	.92	.48				
14	.47	.55	.50	108.50	.62	.40	.94	.35				
15	.47	.55	.50	.61	.53	.48	.96	.25				
16	106.47	106.55	107.95	108.73	109.45	109.55	111.98	109.21				
17	.47	.55	108.04	.85	.41	.60	112.00	.18				
18	.47	.55	.80	109.02	.37	.88	111.89	.15				
19	.47	.56	107.82	.18	.33	110.12	.88	.11				
20	.47	.57	.68	.33	.30	.37	.85	.08				
21	106.47	106.57	107.53	109.35	109.25	110.50	111.81	109.03				
22	.47	.57	.44	.37	.25	.55	.78	.01				
23	.47	.65	.42	.38	.25	.60	.68					
24	.47	.72	.40	.45	.85	.68	.58					
25	.47	.82	.38	.55	.02	.75	.55					
26	106.47	106.94	107.35	109.50	108.85	110.88	111.44					
27	.47	.98	.33	.48	.72	111.00	.35					
28	.47	107.05	.30	.42	.58	.20	.28					
29	.47	.05	.28	.38	.44	.40	.14					
30	.47	.05	.26	.25	.40	.60	.09					
31		.05		.10	.40		110.98					
Mean	106.47	106.63	107.48	108.40	109.20	109.72	111.74					
Max.	106.47	107.05	108.04	109.55	109.85	111.60	112.00					
Min.	106.47	106.47	107.10	107.26	108.40	108.30	110.98					

WATER YEAR 1962 : Max. 112.00 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	205	205	545	641	1,945	1,460	5,460	4,165				
2	205	205	599	641	1,845	1,442	5,625	4,025				
3	205	205	635	641	2,263	1,416	5,708	3,870				
4	205	205	683	641	2,331	1,375	5,847	3,745				
5	205	205	738	641	2,562	1,442	5,909	3,621				
6	205	205	764	641	2,700	1,554	5,925	3,465				
7	205	205	777	641	2,792	1,795	5,894	3,333				
8	205	205	777	653	2,907	1,955	5,770	3,189				
9	205	205	777	665	2,987	2,136	5,770	2,953				
10	205	215	783	695	2,987	2,240	5,770	2,872				
11	205	220	790	713	2,930	2,240	5,770	2,757				
12	205	235	790	751	2,907	2,331	5,770	2,677				
13	205	245	790	777	2,838	2,378	5,801	2,562				
14	205	245	790	1,545	2,723	2,470	5,832	2,412				
15	205	245	790	1,644	2,619	2,562	5,863	2,297				
16	205	245	1,102	1,755	2,527	2,642	5,894	2,251				
17	205	245	1,170	1,875	2,481	2,700	5,925	2,216				
18	205	245	1,140	2,045	2,435	3,022	5,909	2,181				
19	205	250	1,005	2,227	2,389	3,309	5,739	2,136				
20	205	255	907	2,389	2,355	3,609	5,692	2,105				
21	205	255	809	2,412	2,297	3,770	5,630	2,055				
22	205	255	751	2,435	2,297	3,832	5,584	2,035				
23	205	295	738	2,447	2,297	3,895	5,419					
24	205	331	725	2,527	2,297	3,999	5,274					
25	205	386	713	2,642	2,045	4,095	5,227					
26	205	452	895	2,585	1,875	4,277	5,067					
27	205	474	683	2,562	1,475	4,440	4,927					
28	205	515	665	2,492	1,617	4,715	4,831					
29	205	515	653	2,447	1,494	5,005	4,631					
30	205	515	641	2,297	1,460	5,305	4,548					
31	205	515		2,125	1,460		4,421					
Total	6,150	9,889	23,625	49,192	72,137	87,411	171,432					
Mean	205	390	787	1,587	2,327	2,914	5,530					
Max.	205	515	1,170	2,642	2,987	5,305	5,925					
Min.	205	205	545	641	1,460	1,375	4,421					
Runoff - mcm.	531.360	854.410	2,041.200	4,250.189	6,232.637	7,552.310	14,811.725					

WATER YEAR 1962 : Max. 5,925 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	12.00	112.00	5,925				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MUNE RIVER BASIN

Lam Se Bai at Pawaphutanon Bridge, Ubon Ratchathani (M.52)

Location: Lat 15° - 50' - 20" N, Long 104° - 27' - 35" E, on right bank 20 kilometers upstream from Phawaphutanon Bridge on the road Amnat Charoen - Kham Khuan Kaen, about 35 kilometers from Amphoe Amnat Charoen, Ubon Ratchathani.

Drainage Area: 1,654 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +119.90 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No. P.572

Location: On left bank at provincial roads store.

Elevation: +128.834 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 - 55, 1957 to date.

Rating Operation:

Period of Rating: 1955 - 1957, 1965 to date

Rated by Float: -

Rated by Current Meter: 1955 - 1957, 1965 to date

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

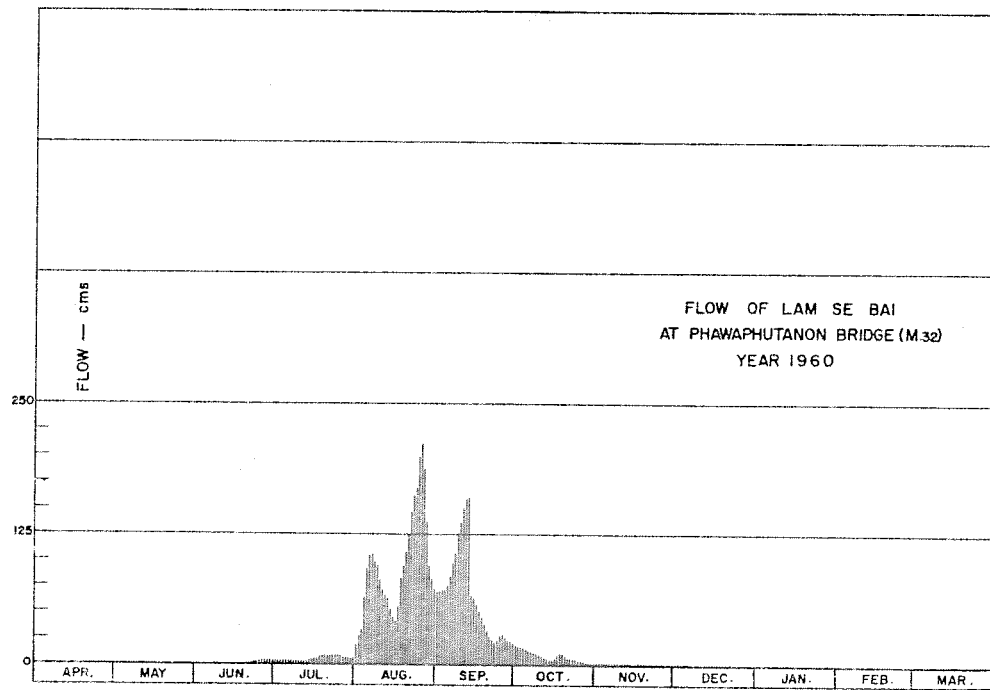
General Description: Records fair except those for periods of no gage height record, which are poor. Stage - discharge relationship used is defined by discharge measurements made for period 1965 - 67. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	120.91	120.85	120.88	121.66	122.67	124.24	122.74	121.22	121.17	121.08	121.02	120.97
2	.91	.85	.88	.65	123.17	.24	.67	.22	.17	.08	.02	.97
3	.91	.86	.89	.60	.36	.27	.59	.22	.17	.08	.02	.97
4	.91	.86	.90	.59	124.11	.28	.54	.22	.17	.07	.01	.97
5	.91	.86	.90	.57	.59	.36	.52	.22	.17	.07	.01	.96
6	120.91	120.86	120.90	121.57	124.71	124.49	122.44	121.22	121.16	121.06	121.01	120.96
7	.90	.86	.90	.55	.73	.64	.34	.22	.16	.06	.01	.96
8	.90	.86	.90	.55	.65	.76	.30	.22	.16	.06	.01	.96
9	.90	.86	.94	.54	.60	.92	.22	.22	.16	.06	.01	.96
10	.90	.87	.95	.51	.43	123.05	.11	.21	.16	.06	.01	.95
11	120.90	120.87	120.95	121.48	124.28	125.16	122.02	121.21	121.16	121.05	121.00	120.95
12	.90	.87	.95	.46	.18	.24	121.90	.21	.15	.05	.00	.95
13	.90	.87	.95	.53	.14	.24	.84	.21	.15	.05	.00	.95
14	.89	.87	.94	.64	123.96	124.17	.75	.21	.15	.05	.00	.95
15	.89	.87	.94	.70	.73	.13	.74	.20	.15	.05	.00	.94
16	120.89	120.86	120.94	121.74	123.60	124.01	121.89	121.20	121.15	121.05	120.99	120.94
17	.89	.86	.97	.76	124.02	123.86	122.16	.20	.14	.05	.99	.94
18	.89	.85	.99	122.02	.45	.73	.24	.20	.14	.04	.99	.93
19	.88	.85	121.01	.04	.62	.52	.21	.19	.14	.04	.99	.93
20	.88	.85	.03	.08	.76	.32	.04	.19	.13	.04	.99	.92
21	120.88	120.85	121.04	122.10	124.89	123.16	121.85	121.19	121.12	121.04	120.99	120.92
22	.87	.87	.22	.10	125.13	122.96	.86	.19	.12	.04	.98	.92
23	.87	.87	.29	.08	.26	.84	.77	.19	.12	.04	.98	.91
24	.87	.87	.43	.05	.33	.94	.72	.18	.11	.03	.98	.91
25	.86	.87	.49	.04	.53	123.12	.62	.18	.11	.03	.97	.91
26	120.86	120.87	121.58	122.04	125.64	123.17	121.54	121.18	121.10	121.03	120.97	120.90
27	.85	.88	.64	121.98	.46	.10	.43	.18	.10	.03	.97	.90
28	.85	.88	.67	.91	.05	.02	.30	.18	.10	.02	.97	.90
29	.85	.88	.69	.84	124.59	122.90	.24	.18	.09	.02	.97	.89
30	.84	.88	.68	.75	.44	.80	.24	.18	.09	.02	.89	.89
31		.88		.74	.30		.23		.09	.02	.89	.89
Mean	120.88	120.86	121.11	121.77	124.46	123.92	121.97	121.20	121.14	121.05	121.00	120.93
Max.	120.91	120.88	121.69	122.10	125.64	125.24	122.74	121.22	121.17	121.08	121.02	120.97
Min.	120.84	120.85	120.88	121.46	122.67	122.80	121.23	121.18	121.09	121.02	120.97	120.89

WATER YEAR 1960 : Max. 125.64 m. Min. 120.84 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.42	0.30	0.36	4.60	18	69	19	1.60	1.35	0.92	0.68	0.54
2	0.42	0.30	0.36	4.50	28	69	18	1.60	1.35	0.92	0.68	0.54
3	0.42	0.32	0.38	4.00	33	71	16	1.60	1.35	0.92	0.68	0.54
4	0.42	0.32	0.40	3.92	61	71	16	1.60	1.35	0.88	0.64	0.54
5	0.42	0.32	0.40	3.76	93	76	15	1.60	1.35	0.88	0.64	0.52
6	0.42	0.32	0.40	3.76	104	85	14	1.60	1.30	0.84	0.64	0.52
7	0.40	0.32	0.40	3.60	106	98	13	1.60	1.30	0.84	0.64	0.52
8	0.40	0.32	0.40	3.60	98	108	12	1.60	1.30	0.84	0.64	0.52
9	0.40	0.32	0.48	3.52	94	124	11	1.60	1.30	0.84	0.64	0.52
10	0.40	0.34	0.50	3.28	81	137	9.43	1.55	1.30	0.84	0.64	0.50
11	0.40	0.34	0.50	3.06	71	150	8.26	1.55	1.30	0.80	0.60	0.50
12	0.40	0.34	0.50	2.92	65	159	7.00	1.55	1.25	0.80	0.60	0.50
13	0.40	0.34	0.50	3.44	65	159	6.40	1.55	1.25	0.80	0.60	0.50
14	0.38	0.34	0.48	4.40	55	65	5.50	1.55	1.25	0.80	0.60	0.50
15	0.38	0.34	0.48	5.00	45	65	5.40	1.50	1.25	0.80	0.60	0.48
16	0.38	0.32	0.48	5.40	40	57	6.90	1.50	1.25	0.80	0.58	0.48
17	0.38	0.32	0.54	5.60	57	50	10	1.50	1.20	0.80	0.58	0.48
18	0.38	0.30	0.58	6.26	82	45	11	1.50	1.20	0.76	0.58	0.46
19	0.36	0.30	0.64	8.52	96	38	11	1.45	1.20	0.76	0.58	0.46
20	0.36	0.30	0.72	9.04	108	32	8.52	1.45	1.15	0.76	0.58	0.44
21	0.36	0.30	0.76	9.30	120	27	6.50	1.45	1.10	0.76	0.58	0.44
22	0.34	0.34	1.60	9.30	146	23	6.60	1.45	1.10	0.76	0.56	0.44
23	0.34	0.34	1.95	9.04	162	21	5.70	1.45	1.10	0.76	0.56	0.42
24	0.34	0.34	2.71	8.65	170	23	5.20	1.40	1.05	0.72	0.56	0.42
25	0.32	0.34	3.13	8.52	196	27	4.20	1.40	1.05	0.72	0.54	0.42
26	0.32	0.34	3.84	8.52	212	28	3.52	1.40	1.00	0.72	0.54	0.40
27	0.30	0.36	4.40	7.80	187	26	2.71	1.40	1.00	0.72	0.54	0.40
28	0.30	0.36	4.70	7.10	137	24	2.00	1.40	1.00	0.68	0.54	0.40
29	0.30	0.36	4.90	6.40	93	22	1.70	1.40	0.96	0.68	0.54	0.38
30	0.28	0.36	4.80	5.60	82	20	1.70	1.40	0.96	0.68	0.54	0.38
31		0.36	5.40	5.40	72		1.65		0.96	0.68		0.38
Total	11.14	10.22	42.29	179.81	2,975	1,967	264.89	45.20	36.83	24.48	16.84	14.54
Mean	0.37	0.33	1.41	5.80	95.9	65.5	8.54	1.51	1.19	0.79	0.60	0.47
Max.	0.42	0.36	4.90	9.30	212	159	19	1.60	1.35	0.92	0.68	0.54
Min.	0.28	0.30	0.36	2.92	18	20	1.65	1.40	0.96	0.68	0.54	0.38
Runoff - mcm.	0.962	0.883	3.654	15.535	257.040	169.949	22.886	3.905	3.182	2.115	1.455	1.256

WATER YEAR 1960 : Max. 212 Min. 0.28 Mean 15.3 Annual Runoff 482.824 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 26	15.00	125.65	213				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MUNE RIVER BASIN

Lam Se Bai at Pawaphutanon Bridge, Ubon Ratchathani (M.32)

Location: Lat 15°-50' - 20" N, Long 104°-27' - 35" E, on right bank 20 kilometers upstream from Phawaphutanon Bridge on the road Amnat Charoen - Kham Khuan Kaeo, about 55 kilometers from Amphoe Amnat Charoen, Ubon Ratchathani.

Drainage Area: 1,654 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +119.90 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No. P.572

Location: On left bank at provincial roads store.

Elevation: +128.834 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 - 55, 1957 to date.

Rating Operation:

Period of Rating: 1955 - 1957, 1965 to date

Rated by Float: -

Rated by Current Meter: 1955 - 1957, 1965 to date

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods of no gage height record, which are poor. Stage - discharge relationship used is defined by discharge measurements made for period 1965 - 67. No diversions for irrigation above gage site.

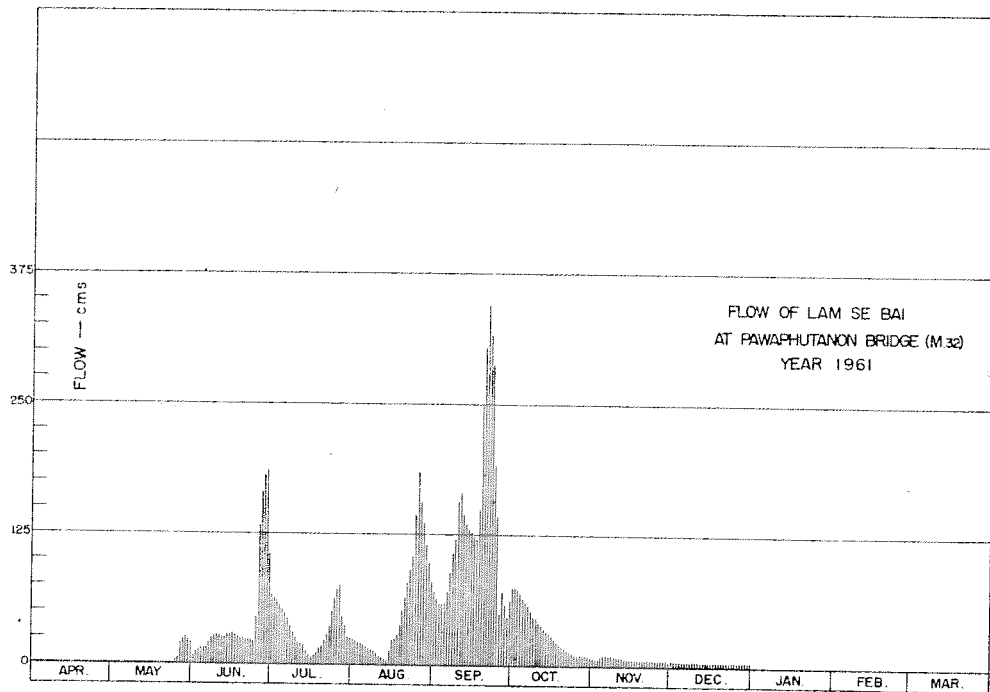
Remarks: No gage height record for period Jan.1 - Mar.31, 1962.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	120.88	120.84	122.03	124.21	123.02	124.26	124.31	121.92	121.71			
2	.88	.83	.22	.16	122.93	.14	.32	.84	.70			
3	.88	.83	.35	.12	.86	.04	.29	.77	.70			
4	.88	.83	.44	.01	.79	.04	.23	122.11	.70			
5	.87	.83	.51	123.93	.73	.06	.13	.21	.69			
6	120.87	120.83	122.57	123.82	122.62	124.30	124.07	122.20	121.68			
7	.87	.83	.82	.72	.54	.52	123.99	.19	.67			
8	.87	.83	123.07	.51	.43	.75	.89	.18	.66			
9	.87	.89	.16	.33	.37	.94	.79	.11	.66			
10	.86	.91	.18	.04	.24	125.22	.71	.09	.65			
11	120.86	120.91	123.12	122.83	122.09	125.28	123.63	122.04	121.64			
12	.86	.89	.10	.75	121.94	.12	.52	.02	.63			
13	.86	.89	.09	.73	.75	.03	.42	121.92	.62			
14	.86	.88	.18	.38	.55	124.98	.34	.90	.61			
15	.86	.88	.24	.14	122.39	.95	.29	.87	.61			
16	120.86	120.87	123.24	121.94	122.99	124.92	123.17	121.86	121.60			
17	.86	.86	.18	122.02	123.07	.89	.07	.83	.60			
18	.86	.85	.08	.31	.26	125.15	122.96	.81	.60			
19	.85	.85	.04	.55	.54	.91	.81	.79	.60			
20	.85	.85	.03	.68	.95	126.23	.71	.79	.60			
21	120.85	120.88	122.97	123.00	124.16	126.45	122.62	121.78	121.59			
22	.85	.96	.94	.25	.42	.29	.52	.77	.59			
23	.85	.97	.94	.49	.58	.14	.42	.75	.59			
24	.58	.97	.94	.94	.72	125.49	.26	.75	.58			
25	.84	121.50	124.01	124.17	125.11	.11	.14	.74	.58			
26	120.84	121.64	124.96	124.30	125.44	123.84	122.14	121.74	121.57			
27	.84	122.82	125.28	.35	.21	124.24	.14	.73	.57			
28	.84	123.02	.41	123.74	.04	.04	.12	.73	.57			
29	.84	.08	.46	.51	124.83	123.79	.10	.73	.57			
30	.84	122.94	124.72	.14	.66	124.13	.03	.72	.56			
31		123.01		.03	.40		121.98		.56			
Mean	120.86	121.26	123.31	123.29	123.41	124.87	123.13	121.90	121.62			
Max.	120.88	123.08	125.46	124.35	125.44	126.45	124.32	122.21	121.71			
Min.	120.84	120.83	122.03	121.94	121.55	123.79	121.98	121.72	121.56			

WATER YEAR 1961 : Max. 126.45 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.36	0.28	8.39	67	24	70	73	7.20	5.10			
2	0.36	0.26	11	64	23	63	74	6.40	5.00			
3	0.36	0.26	13	62	21	58	72	5.70	5.00			
4	0.36	0.26	14	57	20	58	68	9.43	5.00			
5	0.34	0.26	15	53	19	59	63	11	4.90			
6	0.34	0.26	16	48	17	72	60	11	4.80			
7	0.34	0.26	20	44	16	88	56	10	4.70			
8	0.34	0.26	25	37	14	107	51	10	4.60			
9	0.34	0.38	27	32	13	126	47	9.43	4.60			
10	0.32	0.42	28	25	11	157	44	9.17	4.50			
11	0.32	0.42	27	21	9.17	164	41	8.52	4.40			
12	0.32	0.38	26	19	7.40	145	38	8.26	4.30			
13	0.32	0.38	26	19	5.50	135	35	7.20	4.20			
14	0.32	0.36	28	13	3.60	130	32	7.00	4.10			
15	0.32	0.36	29	9.82	13	127	31	6.70	4.10			
16	0.32	0.34	29	7.40	24	124	28	6.60	4.00			
17	0.32	0.32	28	8.26	25	120	25	6.30	4.00			
18	0.32	0.30	26	12	30	149	23	6.10	4.00			
19	0.30	0.30	25	16	38	251	20	5.90	4.00			
20	0.30	0.30	25	18	54	305	18	5.90	4.00			
21	0.30	0.36	23	24	64	345	17	5.80	3.92			
22	0.30	0.52	23	30	80	316	15	5.70	3.92			
23	0.30	0.54	23	37	92	289	14	5.50	3.92			
24	0.30	0.54	23	54	105	191	11	5.50	3.84			
25	0.28	3.20	57	65	144	144	9.82	5.40	3.84			
26	0.28	4.40	128	72	184	49	9.82	5.40	3.76			
27	0.28	20	164	76	156	69	9.82	5.30	3.76			
28	0.28	24	180	45	136	58	9.56	5.30	3.76			
29	0.28	26	187	37	115	47	9.30	5.30	3.76			
30	0.28	23	105	27	99	63	8.39	5.20	3.68			
31	0.28	24		25	79		7.80		3.68			
Total	9.50	132.92	1,359.39	1,124.48	1,641.67	4,079	1,020.51	212.21	131.14			
Mean	0.32	4.29	45.3	36.3	52.9	136	32.9	7.07	4.23			
Max.	0.36	26	187	76	184	345	74	11	5.10			
Min.	0.28	0.26	8.39	7.40	3.60	47	7.80	5.20	3.68			
Runoff - BCM.	0.821	11.484	117.451	97.155	141.840	352.426	88.172	18.335	11.330			

WATER YEAR 1961 : Max. 345 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.21	18.00	126.52	359				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MUNE RIVER BASIN

Lam Se Bai at Pawaphutanon Bridge, Ubon Ratchathani (M.32)

Location: Lat 15° - 15' - 20" N, Long 104° - 27' - 35" E, on right bank 20 kilometers upstream from Phawaphutanon Bridge, on the road Amnat Charoen - Kham Khuan Kao, about 35 kilometers from Amphoe Amnat Charoen, Ubon Ratchathani.

Drainage Area: 1,654 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder. Prior to July 9, 1962 a staff gage at the same site and datum.

Zero Gage at Bottom at: +119.90 m.(M.S.L.)

Bench Mark: B.M. of the Survey Department No.P.572

Location: On left bank at provincial road store.

Elevation: +128.834 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 - 55, 1957 to date.

Rating Operation:

Period of Rating: 1955 - 1957, 1965 to date

Rated by Float: -

Rated by Current Meter: 1955 - 1957, 1965 to date

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods of no gage height record which are poor. Stage - discharge relationship used is defined by discharge measurements made for period 1955 - 67. No diversions for irrigation above gage site.

Remarks: No gage height record for period Apr.1 - Jul.8, 1962. *Data estimated..

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					122.09	123.74	*125.87	121.66	121.55	121.54	121.28	121.24
2					.10	.95	*.80	.67	.55	.34	.28	.24
3					.36	.92	*.51	.66	.54	.33	.28	.24
4					125.18	.83	*.35	.66	.53	.33	.28	.24
5					127.28	.91	*.38	.65	.52	.32	.27	.24
6					127.24	124.46	*.02	121.64	121.52	121.32	121.27	121.24
7					126.72	.99	124.23	.64	.52	.32	.27	.24
8					125.44	125.24	.25	.63	.51	.31	.27	.24
9				124.14	.59	.29	.23	.62	.51	.30	.27	.24
10				123.92	*.26	.04	.14	.62	.51	.29	.27	.23
11				123.71	*124.95	124.30	124.03	121.62	121.49	121.29	121.27	121.23
12				124.26	.59	123.99	123.92	.62	.48	.28	.27	.23
13				125.20	.61	.82	.78	.61	.48	.28	.27	.23
14				.40	.37	124.06	.60	.60	121.47	.28	.26	.23
15				.56	.10	.29	.58	.60	.47	.28	.26	.23
16				125.61	124.12	124.49	123.54	121.59	121.47	121.28	121.26	121.23
17				.60	123.89	.73	.39	.58	.46	.28	.26	.23
18				.53	.75	.82	.39	.58	.45	.28	.25	.23
19				*.44	.63	125.16	.28	.58	.44	.28	.25	.23
20				.35	.49	.36	.14	.58	.42	.28	.25	.23
21				125.23	123.44	125.51	122.98	121.57	121.41	121.28	121.24	121.23
22				124.87	.41	.39	.51	.56	.40	.28	.24	.23
23				.31	.37	.08	.34	.56	.40	.28	.24	.23
24				123.87	.58	124.90	.20	.55	.39	.28	.24	.22
25				.66	.89	125.19	.08	.55	.38	.28	.24	.22
26				123.48	123.95	125.62	121.92	121.55	121.36	121.28	121.24	121.22
27				.31	.97	.81	.79	.55	.36	.28	.24	.22
28				.20	.88	.93	.73	.55	.35	.28	.24	.22
29				122.98	.77	126.07	.71	.55	.35	.28	.24	.21
30				.71	.75	*125.81	.69	.55	.35	.28	.24	.21
31				.45	.74	.68	.68	.55	.35	.28	.24	.20
Mean					124.24	124.82	123.48	121.60	121.45	121.29	121.26	121.23
Max.					127.28	126.07	125.87	121.68	121.55	121.34	121.28	121.24
Min.					122.09	123.74	121.68	121.55	121.35	121.28	121.24	121.20

WATER YEAR 1962 : Max. - m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MUNE RIVER BASIN

Lam Phra Phloeng at Ban Bu Hua Chang, Nakhon Ratchasima (M.33)

Location: Lat 14° - 35' - 20" N, Long 101° - 50' - 30" E, on right bank 50 meters upstream of Lam Phra Phloeng Damsite, Ban Bu Hua Chang, Amphoe Pak Thong Chai, Nakhon Ratchasima.

Drainage Area: 822 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +226.76 m.(M.S.L.)

Bench Mark: B.M. of Survey Division No.3

Location: Near the gage site.
Elevation: +264.086 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1955 to 1964

Rating Operation:

Period of Rating: 1955 to 1964
Rated by Float: -
Rated by Current Meter: 1955 to 1964

Stability of Channel Regimes: Rather unstable, shifting adjustment and mean hourly discharge are made for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relationship used by discharge measurements made during 1960. No diversions for irrigation above gage site.

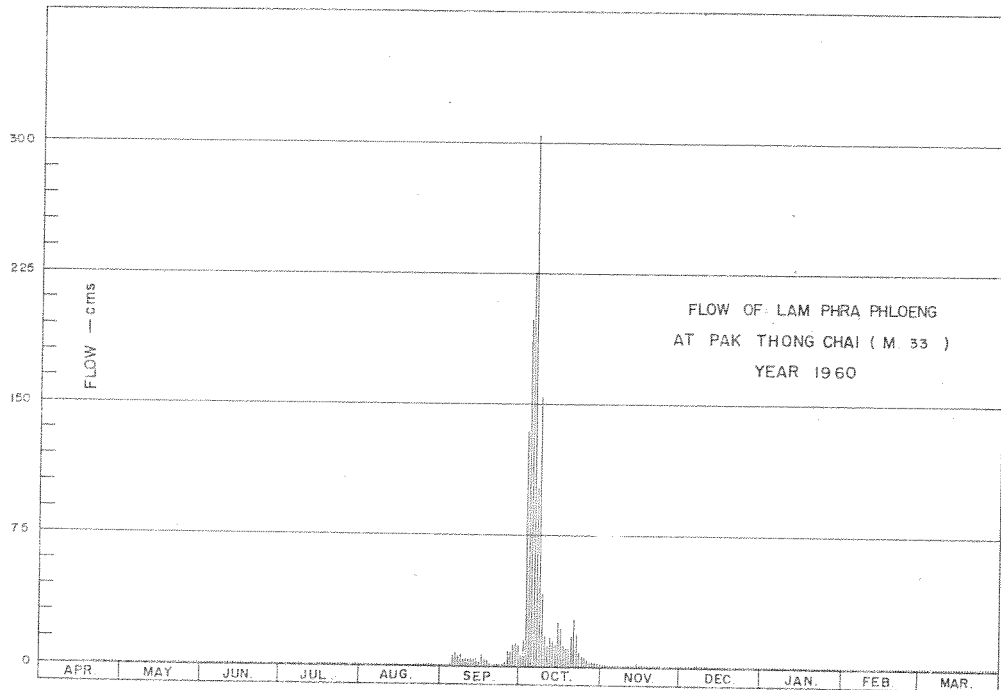
Remarks: Mean hourly discharge adjustments are made for those flashly flooded. Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.09	227.14	227.10	227.31	227.26	227.36	228.53	227.63	227.43	227.29	227.28	227.26
2	.09	.13	.10	.27	.24	.34	229.75	.59	.44	.28	.28	.26
3	.09	.13	.10	.25	.23	.33	234.82	.56	.44	.28	.28	.26
4	.09	.11	.10	.25	.22	.32	235.36	.53	.44	.28	.28	.26
5	.09	.10	.12	.26	.23	229.00	.89	.53	.42	.28	.28	.26
6	227.09	227.10	227.12	227.27	227.22	229.11	236.18	227.52	227.41	227.28	227.28	227.26
7	.09	.10	.12	.27	.24	228.47	234.28	.51	.39	.28	.28	.26
8	.09	.11	.12	.27	.23	.91	235.05	.49	.37	.28	.27	.28
9	.09	.12	.11	.50	.21	.29	232.72	.48	.35	.28	.27	.28
10	.09	.11	.11	.43	.20	.19	230.93	.47	.34	.28	.27	.28
11	227.09	227.11	227.11	227.41	227.18	228.19	229.81	227.45	227.34	227.28	227.27	227.28
12	.09	.11	.11	.38	.16	227.97	234.47	.44	.33	.28	.27	.27
13	.09	.11	.11	.35	.15	.99	230.19	.42	.33	.28	.27	.27
14	.09	.13	.11	.44	.16	228.13	229.86	.91	.33	.28	.27	.27
15	.09	.22	.12	.60	.19	227.82	231.43	.61	.33	.28	.27	.27
16	227.09	227.22	227.14	227.50	227.18	229.25	230.97	227.54	227.33	227.28	227.27	227.27
17	.09	.20	.14	.47	.18	228.13	229.60	.54	.32	.28	.27	.27
18	.09	.17	.13	.49	.20	227.66	.35	.67	.32	.28	.27	.27
19	.09	.15	.13	.46	.21	.49	.30	.50	.32	.28	.27	.27
20	.09	.15	.13	.51	.19	.41	230.00	.56	.31	.28	.27	.27
21	227.14	227.14	227.14	227.45	227.28	227.35	231.30	227.52	227.31	227.28	227.27	227.27
22	.23	.14	.16	.40	.31	.32	230.46	.49	.30	.28	.27	.27
23	.20	.14	.21	.39	.31	.31	229.12	.47	.30	.28	.27	.27
24	.19	.14	.19	.39	.30	.35	228.65	.44	.30	.28	.26	.27
25	.18	.13	.18	.36	.29	.98	.37	.43	.30	.28	.26	.27
26	227.18	227.13	227.18	227.35	227.33	229.24	228.18	227.43	227.30	227.28	227.26	227.27
27	.17	.12	.27	.36	.46	.01	.03	.43	.30	.28	.26	.27
28	.17	.12	.52	.34	.54	.89	227.89	.46	.30	.28	.26	.27
29	.16	.11	.44	.31	.49	.97	.81	.45	.30	.28	.26	.27
30	.15	.11	.37	.28	.42	.81	.75	.43	.30	.28	.26	.27
31		.10		.29	.39		.69		.29	.28	.26	.26
Mean	227.12	227.13	227.17	227.37	227.26	228.22	230.76	227.52	227.34	227.28	227.27	227.27
Max.	227.23	227.22	227.52	227.60	227.34	229.97	236.18	227.91	227.44	227.29	227.28	227.28
Min.	227.09	227.10	227.10	227.25	227.15	227.31	227.69	227.43	227.29	227.28	227.26	227.26

WATER YEAR 1960 : Max. 236.18 m. Min. 227.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.04	0.00	0.15	0.05	0.27	5.25	1.22	0.47	0.12	0.04	0.01
2		0.03	0.00	0.10	0.03	0.20	15	1.10	0.50	0.11	0.04	0.01
3		0.03	0.00	0.08	0.02	0.18	135	0.61	0.52	0.11	0.04	0.01
4		0.01	0.00	0.08	0.02	0.18	198	0.9	0.52	0.11	0.03	0.01
5		0.00	0.02	0.10	0.03	7.02	235	1.01	0.45	0.10	0.03	0.01
6		0.00	0.02	0.10	0.04	7.46	304	0.77	0.43	0.09	0.03	0.01
7		0.00	0.02	0.10	0.04	4.75	102	0.72	0.38	0.08	0.02	0.01
8		0.01	0.02	0.74	0.03	6.10	154	0.63	0.36	0.08	0.02	0.02
9		0.02	0.01	0.60	0.04	3.67	42	0.63	0.31	0.08	0.02	0.02
10		0.01	0.01	0.36	0.01	3.76	17	0.58	0.27	0.07	0.02	0.02
11		0.01	0.01	0.31	0.00	3.85	12	0.52	0.29	0.08	0.01	0.02
12		0.01	0.01	0.25	0.00	4.12	17	0.47	0.29	0.06	0.01	0.01
13		0.01	0.01	0.16	0.00	3.22	14	0.50	0.27	0.06	0.01	0.01
14		0.03	0.01	0.38	0.00	3.54	12	2.30	0.25	0.06	0.01	0.01
15		0.15	0.02	0.89	0.01	2.18	26	1.40	0.25	0.05	0.01	0.01
16		0.15	0.04	0.50	0.00	8.48	22	0.92	0.25	0.05	0.01	0.01
17		0.11	0.04	0.45	0.00	3.35	12	0.86	0.18	0.05	0.01	0.01
18		0.08	0.03	0.52	0.00	2.03	10	1.47	0.20	0.05	0.01	0.01
19		0.05	0.03	0.45	0.01	0.86	9.26	0.86	0.22	0.04	0.01	0.01
20		0.05	0.03	0.58	0.00	0.74	14	0.98	0.20	0.04	0.01	0.01
21	0.05	0.04	0.04	0.43	0.10	0.52	27	0.86	0.20	0.04	0.01	0.01
22	0.16	0.04	0.07	0.31	0.13	0.50	18	0.69	0.16	0.04	0.01	0.01
23	0.11	0.04	0.02	0.31	0.13	0.43	8.18	0.60	0.16	0.04	0.01	0.01
24	0.10	0.04	0.01	0.29	0.13	0.66	5.55	0.50	0.16	0.04	0.01	0.01
25	0.09	0.03	0.00	0.24	0.11	2.26	4.05	0.47	0.16	0.03	0.01	0.01
26	0.09	0.03	0.01	0.24	0.15	8.36	3.40	0.47	0.15	0.03	0.01	0.01
27	0.08	0.02	0.11	0.25	0.63	8.18	2.72	0.47	0.15	0.03	0.01	0.01
28	0.08	0.02	0.55	0.15	0.72	12	2.34	0.55	0.15	0.03	0.01	0.01
29	0.07	0.01	0.36	0.10	0.58	13	1.92	0.52	0.15	0.04	0.01	0.01
30	0.05	0.01	0.11	0.07	0.43	11	1.61	0.47	0.13	0.04	0.01	0.01
31		0.00		0.09	0.38		1.40			0.04		0.01
Total	0.88	1.08	1.61	9.38	3.82	122.87	1,432.48	24.47	8.33	1.89	0.47	0.35
Mean	0.03	0.03	0.05	0.30	0.12	4.09	46.2	0.61	0.27	0.06	0.02	0.01
Max.	0.16	0.15	0.55	0.89	0.72	13	304	2.30	0.52	0.12	0.04	0.02
Min.	0.00	0.00	0.00	0.07	0.00	0.18	1.40	0.47	0.13	0.03	0.01	0.01
Runoff - mcm.	0.076	0.093	0.139	0.810	0.330	10.616	123.766	2.114	0.720	0.163	0.041	0.030

WATER YEAR 1960 : Max. 304 Min. 0.00 Mean 4.40 Annual Runoff 138,899 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	05.00	237.13	500				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MUNE RIVER BASIN

Lam Phra Phloeng at Ban Bu Hua Chang, Nakhon Ratchasima (M.33)

Location: Lat 14° - 35' - 20" N, Long 101° - 50' - 30" E, on right bank 50 meters upstream of Lam Phra Phloeng Damsite, Ban Bu Hua Chang, Amphoe Pak Thong Chai, Nakhon Ratchasima.

Drainage Area: 822 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +226.76 m.(M.S.L.)

Bench Mark: B.M. of Survey Division No.3

Location: Near the gage site.
Elevation: +264.086 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1955 to 1964

Rating Operation:

Period of Rating: 1955 to 1964
Rated by Float:
Rated by Current Meter: 1955 to 1964

Stability of Channel Regimes: Rather unstable, no shifting adjustment but mean hourly discharge are made for those flashly flooded.

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relationship used by discharge measurements made during 1961. No diversions for irrigation above gage site.

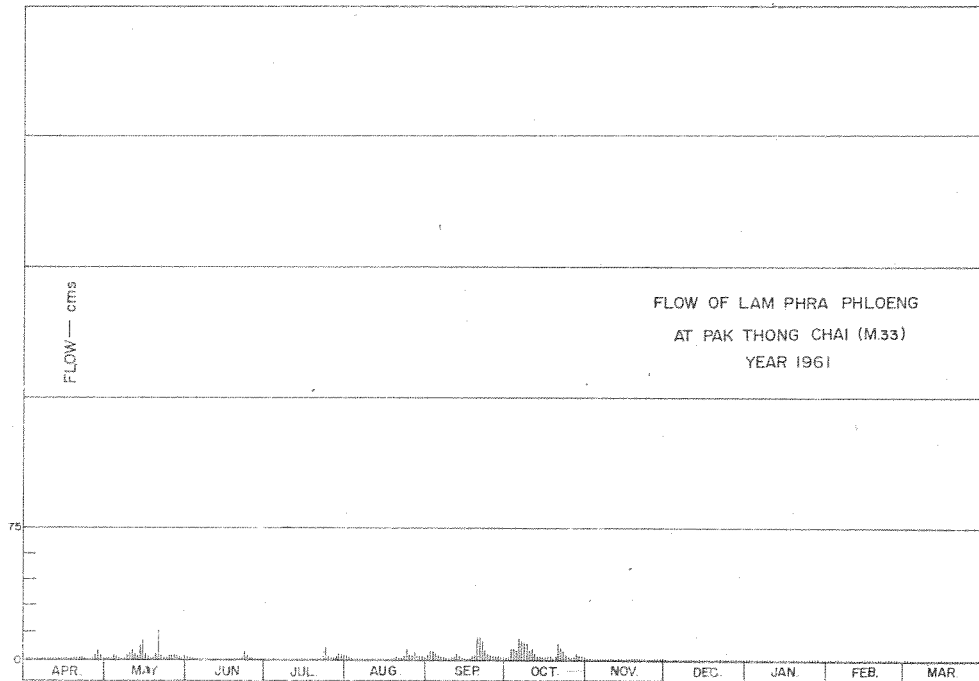
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.26	227.62	227.67	227.36	227.90	227.95	227.83	227.52	227.16	227.07	227.03	227.03
2	.29	.62	.56	.34	.69	228.45	.85	.43	.16	.06	.03	.03
3	.36	.53	.50	.38	.61	.28	228.85	.37	.17	.06	.03	.03
4	.26	228.05	.45	.38	.52	.04	229.03	.34	.17	.06	.03	.03
5	.26	227.95	.41	.37	.46	227.84	228.65	.31	.17	.06	.03	.03
6	227.26	227.66	227.37	227.34	227.41	227.70	229.93	227.28	227.16	227.06	227.03	227.03
7	.26	.56	.35	.31	.37	.59	.63	.28	.16	.06	.03	.03
8	.26	.53	.33	.30	.35	.51	.50	.26	.15	.06	.03	.03
9	.26	228.13	.32	.30	.36	.46	.52	.28	.14	.05	.03	.03
10	.31	.02	.31	.27	.42	.43	228.48	.30	.14	.05	.03	.03
11	227.30	229.02	227.30	227.27	227.46	228.03	228.92	227.29	227.14	227.05	227.03	227.03
12	.29	228.35	.39	.28	.38	228.67	.28	.28	.13	.05	.03	.03
13	.29	.01	.54	.26	.35	227.89	227.89	.27	.12	.05	.03	.03
14	.28	229.26	.42	.26	.34	.55	.74	.28	.11	.04	.03	.03
15	.28	.56	.38	.25	.32	.49	.54	.27	.10	.04	.03	.03
16	227.28	228.30	227.35	227.24	227.29	227.46	227.61	227.26	227.10	227.04	227.03	227.03
17	.27	227.92	.34	.23	.28	.48	.86	.24	.10	.04	.03	.03
18	.27	.72	.33	.25	.36	.82	.77	.24	.10	.04	.03	.03
19	.31	.68	.32	.26	.44	.79	.61	.25	.09	.04	.03	.03
20	.30	.88	.33	.50	.86	229.44	.55	.22	.09	.04	.03	.03
21	227.29	230.25	227.29	227.60	227.58	229.60	229.26	227.22	227.09	227.04	227.03	227.03
22	.29	228.00	.30	.50	.51	.48	228.87	.21	.09	.04	.03	.03
23	.28	227.77	228.61	.70	.83	228.42	.51	.21	.09	.03	.03	.03
24	.28	.57	227.87	228.81	228.72	.05	227.96	.21	.09	.03	.03	.03
25	.27	228.18	.70	227.83	.02	227.92	.74	227.19	.09	.03	.03	.03
26	227.27	228.04	227.50	227.63	227.75	227.79	227.62	227.18	227.09	227.03	227.03	227.03
27	228.03	227.91	.41	.67	228.39	.74	.65	.18	.08	.03	.03	.03
28	.58	.68	.37	.83	.00	.69	228.16	.18	.08	.03	.03	.03
29	.13	.74	.33	228.29	227.90	.58	227.69	.17	.08	.03	.03	.03
30	227.70	.86	.33	.05	.82	.58	.75	.17	.07	.03	.03	.03
31		.82	.25	.68	.70				.07	.03		
Mean	227.39	228.08	227.46	227.53	227.62	227.95	228.29	227.26	227.11	227.04	227.03	227.03
Max.	228.58	230.25	228.61	228.81	228.72	229.60	229.93	227.52	227.17	227.07	227.03	227.03
Min.	227.26	227.53	227.30	227.23	227.28	227.43	227.54	227.17	227.07	227.03	227.03	227.03

WATER YEAR 1961 : Max. 230.25 m. Min. 227.03 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.96	1.60	0.52	2.50	3.00	2.22	1.14	0.10			
2	0.00	0.96	1.21	0.45	1.66	5.60	2.30	0.87	0.10			
3	0.00	0.69	1.00	0.58	1.38	4.64	6.90	0.69	0.13			
4	0.00	2.60	0.85	0.58	1.08	3.40	7.37	0.60	0.13			
5	0.00	2.20	0.69	0.55	0.89	2.56	5.90	0.51	0.13			
6	0.00	1.08	0.55	0.46	0.73	2.00	13	0.42	0.10			
7	0.00	0.78	0.48	0.35	0.61	1.56	11	0.42	0.10			
8	0.00	0.69	0.42	0.32	0.56	1.24	10	0.36	0.08			
9	0.00	2.92	0.38	0.32	0.59	1.04	9.31	0.42	0.05			
10	0.03	2.48	0.35	0.22	0.76	0.92	5.05	0.48	0.05			
11	0.02	7.12	0.32	0.22	0.89	1.84	7.25	0.45	0.05			
12	0.02	3.80	0.61	0.25	0.64	3.35	4.11	0.42	0.02			
13	0.02	2.44	1.14	0.19	0.56	1.88	2.46	0.39				
14	0.01	8.56	0.72	0.19	0.54	1.40	1.89	0.42				
15	0.01	11	0.58	0.16	0.49	1.16	1.54	0.39				
16	0.01	3.60	0.48	0.12	0.42	1.04	1.43	0.36				
17	0.01	2.08	0.45	0.09	0.39	1.12	2.34	0.31				
18	0.01	1.28	0.42	0.15	0.59	2.46	1.99	0.31				
19	0.02	0.99	0.38	0.19	0.82	2.36	1.43	0.28				
20	0.02	1.92	0.42	1.00	2.34	13	1.24	0.26				
21	0.02	17	0.28	1.35	1.28	13	9.11	0.26				
22	0.01	2.40	0.32	1.00	1.05	11	7.00	0.23				
23	0.01	1.48	5.47	1.70	2.22	5.24	5.20	0.23				
24	0.01	0.81	2.32	7.51	6.44	3.45	2.74	0.23				
25	0.01	3.12	1.70	2.71	2.99	2.88	1.89	0.17				
26	0.01	2.56	1.60	1.47	1.90	2.36	1.47	0.15				
27	2.52	2.04	0.69	1.50	4.70	2.16	1.57	0.15				
28	4.90	1.92	0.55	2.17	2.90	1.96	3.57	0.15				
29	2.92	1.36	0.42	4.00	2.50	1.52	1.71	0.13				
30	1.20	1.84	0.42	3.04	2.18	1.52	1.92	0.13				
31		1.68		3.84	1.63		1.75					
Total	11.79	94.36	26.20	37.19	48.23	100.68	136.66	11.33	1.04	0.00	0.00	0.00
Mean	0.39	3.04	0.87	1.20	1.55	3.36	4.41	0.38	0.03	0.00	0.00	0.00
Max.	4.90	17	5.47	7.51	6.44	13	13	1.14	0.13	0.00	0.00	0.00
Min.	0.00	0.69	0.28	0.09	0.39	0.92	1.24	0.13	0.00	0.00	0.00	0.00
Runoff - mcm.	1.019	8.153	2.264	3.213	4.167	8.699	11.807	0.979	0.090	0.00	0.00	0.00

WATER YEAR 1961 : Max. 17 Min. 0.00 Mean 1.28 Annual Runoff 40.390 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
May.21	03.00	232.01	33				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
MUNE RIVER BASIN**

Lam Phra Phloeng at Ban Bu Hua Chang, Nakhon Ratchasima (M.33)

Location: Lat 14° - 35' - 20" N, Long 101° - 50' - 30" E, on right bank 50 meters upstream of Lam Phra Phloeng Damsite, Ban Bu Hua Chang, Amphoe Pak Thong Chai, Nakhon Ratchasima.

Drainage Area: 822 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +226.76 m.(M.S.L.)

Bench Mark: B.M. of Survey Division No.3

Location: Near the gage site.
Elevation: +264.086 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1955 to 1964

Rating Operation:

Period of Rating: 1955 to 1964
Rated by Float: -
Rated by Current Meter: 1955 to 1964

Stability of Channel Regimes: Rather unstable, shifting adjustment and mean hourly discharge are made for flow computation.

Overbank Flow Conditions: No overbank flow.

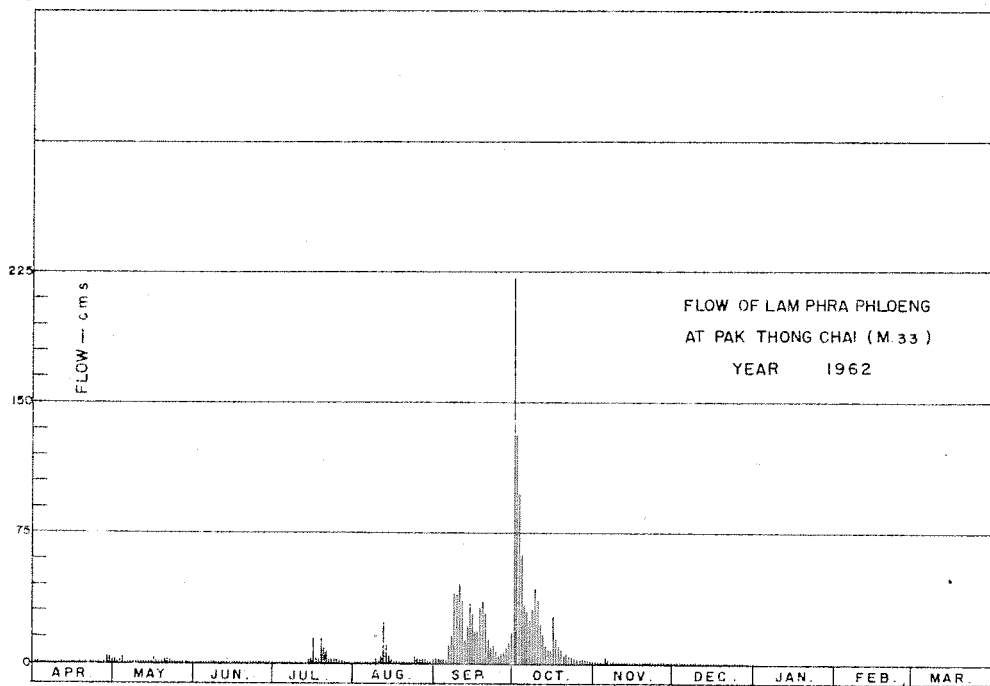
General Description: Records good. Stage - discharge relationship used by discharge measurements made during 1962. No diversions for irrigation above gage site.

Remarks: Mean hourly discharge adjustments are made for those flashly flooded. No gage height record since Jan. 1 - Mar.31, 1963 due to storage at Lam Phra Phloeng Reservoir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.03	227.85	227.14	227.33	227.24	227.69	230.60	227.51	227.22			
2	.03	.42	.13	.18	.22	.62	234.08	.49	.22			
3	.03	.61	.12	.16	.19	.82	.03	.46	.21			
4	.03	228.19	.11	.20	.23	.70	235.21	.44	.21			
5	.03	227.36	.11	.19	.28	.44	231.79	.98	.21			
6	227.03	227.38	227.11	227.16	227.23	229.05	231.62	227.84	227.20			
7	.03	.33	.13	.24	.22	230.01	230.97	.57	.19			
8	.03	.26	.39	.38	.39	232.32	232.32	.47	.19			
9	.03	.58	.33	.24	.68	.57	.48	.43	.18			
10	.02	.58	.22	.19	.60	.77	231.87	.38	.16			
11	227.41	227.41	227.20	227.18	228.37	231.14	230.85	227.35	227.17			
12	.23	.48	.18	.18	230.27	229.82	229.94	.33	.17			
13	.17	.34	.16	.18	229.51	230.55	.16	.30	.17			
14	.13	.33	.15	.75	228.35	231.82	228.86	.29	.17			
15	.11	.39	.13	.86	227.85	.71	.84	.27	.17			
16	227.09	227.97	227.11	229.83	227.62	230.09	231.00	227.26	227.17			
17	.07	.57	.10	228.00	.63	229.67	229.79	.25	.16			
18	.11	.33	.11	227.90	.61	231.63	.11	.23	.16			
19	.35	.24	.17	229.78	.48	.87	228.84	.22	.16			
20	.74	.64	.16	.00	.40	.79	.63	.22	.18			
21	227.36	227.97	227.14	228.75	227.37	229.62	228.37	227.22	227.19			
22	.40	.57	.28	.26	.37	228.81	.18	.25	.17			
23	.23	.43	.46	227.91	.35	.97	.05	.25	.17			
24	.18	.32	.56	.80	228.19	.79	227.95	.22	.17			
25	.16	.23	.38	.65	227.83	.39	.87	.22	.16			
26	227.13	227.29	227.31	227.56	227.66	228.53	227.77	227.21	227.16			
27	.33	.24	.25	.48	.74	.41	.70	.21	.16			
28	228.33	.19	.26	.41	.88	229.01	.64	.21	.16			
29	.12	.18	.21	.35	.61	.27	.59	.22	.16			
30	227.93	.16	.20	.31	.56	230.11	.56	.23	.16			
31		.15		.28	.71		.53		.16			
Mean	227.27	227.45	227.21	227.70	227.73	229.83	229.81	227.35	227.18			
Max.	228.33	228.19	227.56	229.83	230.27	232.77	234.08	227.98	227.22			
Min.	227.02	227.15	227.11	227.16	227.19	227.44	227.53	227.21	227.16			

WATER YEAR 1962 : Max. 234.08 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.02	2.20	0.08	0.31	0.40	2.36	20	1.23	0.23			
2	0.01	0.68	0.07	0.23	0.36	1.96	121	1.09	0.23			
3	0.00	1.57	0.06	0.17	0.36	2.68	97	0.99	0.20			
4	0.00	3.28	0.03	0.27	0.42	2.24	59	0.99	0.20			
5	0.00	0.56	0.02	0.23	0.63	1.33	33	3.04	0.20			
6	0.00	0.61	0.14	0.17	0.49	10	29	2.28	0.19			
7	0.00	0.56	0.19	0.36	0.46	16	23	1.39	0.17			
8	0.00	0.44	0.79	0.66	0.82	40	33	0.98	0.19			
9	0.00	1.30	0.66	0.34	1.72	39	43	0.90	0.17			
10	0.08	1.45	0.38	0.23	1.42	45	36	0.84	0.17			
11	0.44	0.90	0.31	0.20	3.95	35	23	0.79	0.16			
12	0.10	0.90	0.22	0.19	23	13	16	0.76	0.16			
13	0.05	0.54	0.16	0.22	9.38	20	9.73	0.66	0.16			
14	0.06	0.51	0.11	1.84	3.60	34	7.50	0.61	0.17			
15	0.02	0.58	0.10	2.28	1.57	28	6.94	0.54	0.16			
16	0.01	3.08	0.06	14	0.92	17	26	0.49	0.16			
17	0.01	1.42	0.66	2.72	0.99	18	14	0.46	0.11			
18	0.05	0.67	0.04	2.68	0.95	32	9.73	0.42	0.13			
19	0.40	0.40	0.14	14	0.63	35	7.49	0.40	0.11			
20	1.42	1.68	0.11	8.75	0.46	28	3.98	0.38	0.13			
21	0.46	2.80	0.11	6.94	0.42	15	5.14	0.38	0.13			
22	0.56	1.60	0.36	2.32	0.44	8.97	3.75	0.44	0.11			
23	0.16	0.84	0.95	2.48	0.42	10	3.20	0.34	0.11			
24	0.11	0.49	1.33	2.40	3.85	7.35	2.84	0.29	0.10			
25	0.10	0.22	0.76	1.96	2.76	4.65	2.40	0.29	0.07			
26	0.03	0.27	0.54	1.51	2.08	5.86	1.92	0.31	0.08			
27	0.08	0.20	0.38	1.23	2.40	6.22	1.76	0.29	0.08			
28	4.00	0.13	0.44	0.87	2.64	9.10	1.60	0.29	0.00			
29	3.08	0.13	0.51	0.38	1.45	11	1.48	0.31	0.00			
30	2.52	0.10	0.19	0.31	1.20	17	1.39	0.29	0.00			
31		0.08		0.27	2.20		1.33		0.00			
Total	14.07	30.19	9.30	70.32	72.39	515.12	845.18	22.47	4.08			
Mean	0.47	0.97	0.31	2.27	2.33	17.2	28.8	0.75	0.13			
Max.	4.00	3.28	1.33	14	23	45	121	3.04	0.23			
Min.	0.00	0.08	0.02	0.17	0.36	1.33	1.33	0.29	0.00			
Runoff - mcm.	1.216	2.608	0.803	6.093	6.254	44.506	55.743	1.941	0.352			

WATER YEAR 1962 : Max. 121 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	12.00	235.34	199				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MUNE RIVER BASIN

Lam Ta Khong at Damsite, Nakhon Ratchasima (M.380)

Location: Lat 14⁰-52' - 06" N, Long 101⁰-33' - 53" E, on left bank 500 meters downstream from Lam Ta Khong Damsite, Tambon Khlong Phai, Amphoe Sikhiu, Nakhon Ratchasima.

Drainage Area: 1,292 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +242.00 m. (M.S.L.)

Bench Mark: B.M. - H.S. north - east region.

Location: On left bank at the railway telegraph post No.204/9
Elevation: +256.115 m. (M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly 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: Unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: -

General Description:

Records good. Stage discharge relationship used by discharge measurements made during 1962. No upstream diversions for irrigation except those built by the farmers for dry period by mean of water wheel diversions. No adjustment made for virgin flow.

Remarks:

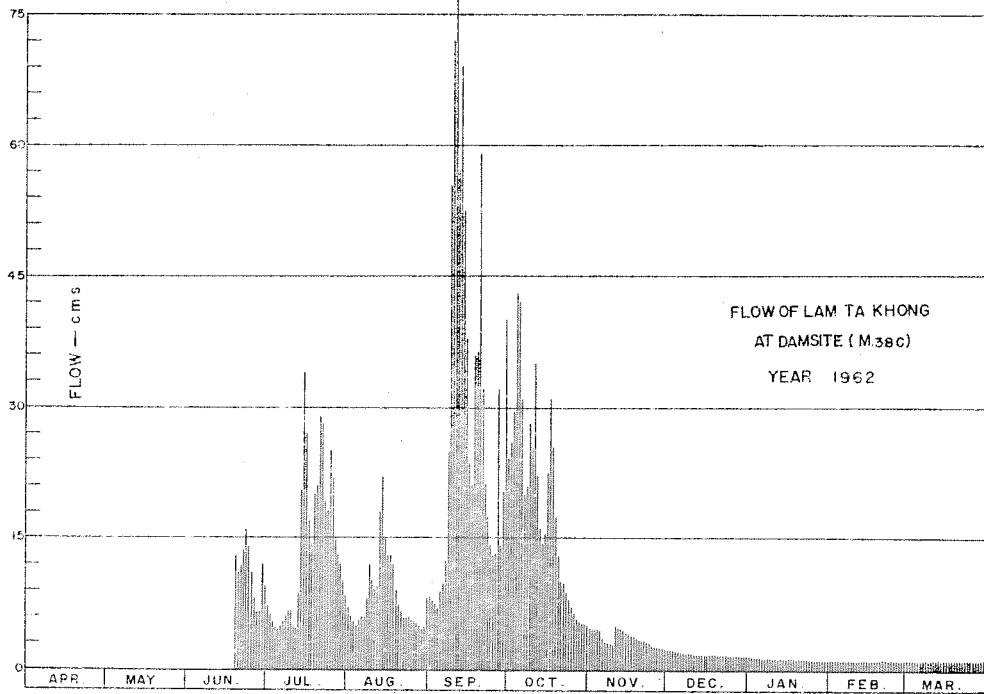
Gage height record began on Jun. 19, 1962.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				246.35	246.30	246.44	247.24	245.93	244.74	244.20	243.94	243.85
2				.19	.19	.41	.29	.94	.70	.19	.95	.84
3				.03	.07	.37	.46	.91	.67	.17	.97	.83
4				245.93	245.99	.29	248.01	.86	.64	.17	.95	.83
5				.91	246.14	.49	247.97	.85	.60	.16	.94	.83
6				245.98	246.19	246.56	247.54	245.47	244.54	244.13	243.93	243.82
7				246.07	.15	.55	.10	.30	.52	.12	.93	.84
8				.20	.42	247.47	.11	.21	.50	.11	.94	.84
9				.26	.67	248.57	.43	.13	.45	.09	.93	.82
10				.26	.57	.83	.33	.06	.44	.08	.90	.83
11				245.97	246.51	248.90	247.70	245.98	244.40	244.07	243.90	243.88
12				.90	.52	.43	.16	.92	.38	.06	.90	.93
13				246.49	.98	.73	246.90	.86	.37	.05	.90	244.01
14				247.10	247.17	.13	.80	.81	.36	.05	.91	243.85
15				.68	246.82	247.71	.89	.75	.36	.04	.94	.92
16				247.39	246.72	247.20	247.19	245.71	244.33	244.03	243.90	243.90
17				246.95	.74	.09	.54	.65	.34	.02	.90	.86
18				.78	.66	.75	.24	.59	.34	.01	.90	.84
19			246.74	247.06	.50	.59	246.88	.52	.34	243.99	.88	.84
20			.63	.13	.36	248.49	.72	.44	.34	244.01	.84	.86
21			246.68	247.45	246.25	247.60	246.60	245.40	244.32	244.00	244.00	243.87
22			.84	.43	.15	.12	.55	.35	.31	.00	243.98	.87
23			.90	.05	.14	246.91	.48	.28	.51	243.99	.90	.87
24			.79	246.97	.16	.76	.41	.10	.27	.99	.94	.85
25			.63	247.31	.12	.72	.34	244.98	.26	.99	.92	.85
26			246.42	247.15	246.07	246.75	246.23	244.96	244.27	243.97	243.88	243.86
27			.23	246.85	.02	247.60	.14	.92	.25	.96	.87	.82
28			.25	.75	245.96	246.77	.07	.90	.22	.94	.86	.85
29			.68	.71	.90	247.01	.02	.81	.22	.95	.97	.97
30			.51	.59	.91	246.90	.02	.78	.20	.94	.98	.98
31				.44	246.41		245.98		.21	.94		244.04
Mean				246.65	246.35	247.34	246.91	244.98	244.39	244.04	243.92	243.87
Max.				247.68	247.17	248.90	248.01	245.98	244.74	244.00	244.00	244.04
Min.				245.90	245.90	246.29	245.98	244.78	244.20	243.94	243.84	243.82

WATER YEAR 1962 : Max. 248.90 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				7.38	6.92	8.33	24	4.77	2.31	1.50	1.11	0.97
2				6.09	6.09	7.97	25	4.81	2.25	1.48	1.12	0.96
3				5.20	5.40	7.57	29	4.69	2.20	1.45	1.15	0.94
4				4.77	5.01	6.84	43	4.51	2.16	1.45	1.12	0.94
5				4.69	5.79	8.92	42	4.47	2.10	1.44	1.11	0.94
6				4.97	6.09	9.95	31	3.49	1.98	1.39	1.09	0.93
7				5.40	5.85	9.80	20	3.17	1.98	1.38	1.09	0.96
8				6.15	8.09	29	21	3.03	1.95	1.36	1.11	0.96
9				6.61	12	63	28	2.90	1.87	1.33	1.09	0.93
10				6.61	10	74	26	2.79	1.86	1.32	1.05	0.94
11				4.95	9.19	77	35	4.97	1.80	1.30	1.05	1.02
12				4.65	9.34	57	22	4.73	1.77	1.29	1.05	1.09
13				8.92	18	69	16	4.51	1.75	1.27	1.05	1.21
14				20	22	47	14	4.33	1.74	1.27	1.06	0.97
15				34	15	35	16	4.15	1.74	1.26	1.11	1.08
16				27	13	23	22	4.03	1.69	1.24	1.05	1.05
17				17	13	20	31	3.88	1.71	1.23	1.05	0.99
18				14	12	36	24	3.75	1.71	1.21	1.05	0.96
19			13	20	9.04	35	16	3.59	1.71	1.18	1.02	0.96
20			11	21	7.48	59	13	3.43	1.71	1.21	0.96	0.99
21			12	29	6.53	32	10	3.35	1.68	1.20	1.20	1.00
22			15	28	5.85	21	9.80	3.26	1.66	1.20	1.17	1.00
23			16	19	5.79	16	8.80	3.14	1.66	1.18	1.05	1.00
24			14	18	5.91	14	7.97	2.85	1.60	1.18	1.11	0.97
25			11	25	5.67	13	7.29	2.67	1.59	1.18	1.08	0.99
26			8.09	22	5.40	13	6.38	2.64	1.60	1.15	1.02	0.99
27			6.38	15	5.15	32	5.79	2.58	1.57	1.14	1.00	0.93
28			6.53	13	4.81	14	5.40	2.55	1.53	1.11	0.99	0.97
29			12	12	4.65	18	5.15	2.41	1.53	1.12		1.15
30			9.19	10	4.69	40	5.15	2.37	1.50	1.11		1.17
31				8.33	7.97		4.97		1.51	1.11		1.26
Total				428.70	261.71	896.38	574.70	107.82	55.42	39.24	30.11	31.22
Mean				13.8	8.44	29.9	18.5	3.59	1.79	1.26	1.07	1.01
Max.				34	22	77	43	4.97	2.31	1.50	1.20	1.26
Min.				4.65	4.65	6.84	4.97	2.37	1.50	1.11	0.96	0.93
Runoff				37.040	22.612	77.447	49.654	9.316	4.788	3.390	2.601	2.697

WATER YEAR 1962 : Max. 77 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.11	18.00	249.05	85				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAKHON NAYOK RIVER BASIN

Nakhon Nayok River at Khao Kariang (Ny.1)

Location: Lat $14^{\circ} - 14' - 22''$ N, Long $101^{\circ} - 16' - 45''$ E, on left bank, 12 kilometers upstream from Muang Nakhon Nayok and 10 kilometers on the country road, left of Suwanson Road, Amphoe Muang, Nakhon Nayok.

Drainage Area: 526 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.96 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

‡ Location: On left bank near the gage line.
Elevation: +9.79 m.(M.S.L.)

Gage Reading Frequency: 6 - time daily readings at 06.00, 09.00, 12.00, 18.00 and 21.00 hours.

Basis of Mean Daily Gage Height: Arithmetic of 6 readings.

Period of Available Gage Records: 1952 to date.

Rating Operation:

Period of Rating: 1952 - 57

Rated by Float: -

Rated by Current Meter: 1952 - 57

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

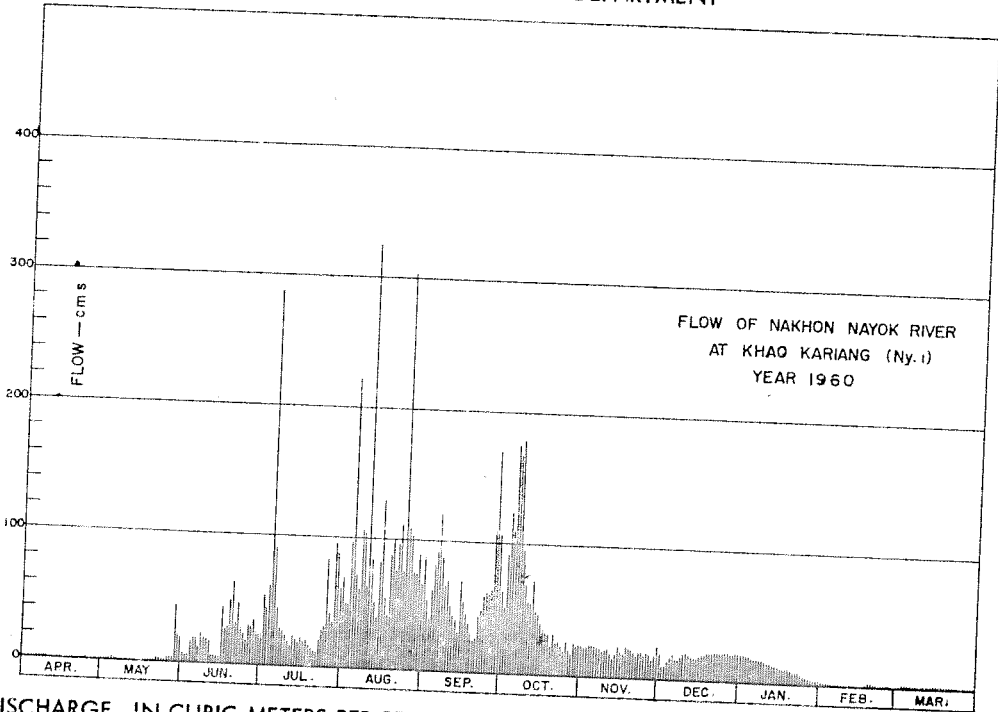
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1955 - 57. For drought periods stage was effected by backwater at Nakhon Nayok Barrage which is at downstream. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.44	3.45	3.91	4.54	5.76	6.17	5.62	4.55	4.47	4.47	3.64	3.48
2	.42	.46	.85	5.40	.27	5.41	.31	.48	3.97	.47	.60	.51
3	.39	.46	.87	.13	.28	.02	6.23	.55	4.09	.43	.58	.58
4	.47	.51	4.29	.61	6.36	6.00	.83	.58	.22	.42	.55	.55
5	.51	.62	.40	8.84	8.22	6.05	.55	.57	.34	.38	.52	.54
6	3.52	3.54	4.40	6.20	5.81	6.32	7.64	4.57	4.44	4.37	3.51	3.52
7	.52	.48	.13	5.12	.56	.76	.52	.55	.25	.35	.50	.52
8	.53	.42	.55	4.75	6.51	.15	.69	.50	.25	.34	.48	.55
9	.52	.39	.40	.68	.47	5.64	6.30	.43	.36	.32	.48	.55
10	.52	.37	.39	.52	5.63	.79	5.73	.47	.46	.29	.48	.54
11	3.51	3.37	4.33	4.45	9.12	5.30	5.43	4.51	4.47	4.26	3.48	3.54
12	.49	.37	3.85	.23	6.04	.11	.38	.36	.39	.26	.48	.53
13	.48	.36	.85	.55	5.31	.05	.81	.24	.35	.21	.48	.53
14	.48	.36	.84	.43	.00	4.76	.23	.36	.32	.16	.48	.53
15	.48	.36	.80	.35	6.11	5.79	.19	.57	.34	.16	.48	.63
16	3.47	3.35	5.15	4.50	6.92	5.38	5.02	4.42	4.37	4.13	3.48	3.59
17	.41	.35	4.62	.41	5.42	.15	4.83	.38	.42	.09	.48	.55
18	.35	.36	.74	.42	.08	4.96	.83	.57	.45	.08	.52	.54
19	.36	.46	5.30	.29	6.15	.76	.80	.55	.47	.07	.66	.52
20	.48	.47	.65	.20	.41	.56	.49	.51	.47	.06	.62	.50
21	3.47	3.52	4.78	4.11	5.91	4.63	4.79	4.43	4.48	4.01	3.56	3.50
22	.41	.67	5.22	.08	6.32	5.12	.54	.33	.51	.00	.52	.50
23	.50	.63	4.70	.43	.60	.22	.64	.43	.49	.00	.49	.49
24	.51	.57	.56	.72	5.90	.54	.53	.44	.48	3.91	.48	.48
25	.50	.53	.35	.82	8.96	.58	.38	.34	.51	.85	.48	.48
26	3.45	3.69	4.78	6.04	6.55	5.56	4.63	4.43	4.50	3.78	3.48	3.48
27	.44	.72	.73	5.05	.48	.66	.43	.36	.49	.77	.48	.47
28	.46	.72	.91	4.87	5.88	6.56	.30	.26	.48	.74	.48	.47
29	.47	5.15	.60	6.31	.86	7.57	.59	.35	.48	.71	.46	.46
30	.48	4.48	.53	.17	6.18	6.44	.53	.60	.49	.69	.46	.46
31		.40		5.53	5.69		.56		.48	.66		.47
Mean	3.47	3.60	4.48	4.99	6.22	5.59	5.37	4.46	4.39	4.11	3.52	3.52
Max.	3.53	5.15	5.65	8.84	9.12	7.57	7.69	4.60	4.51	4.47	3.64	3.65
Min.	3.35	3.35	3.80	4.08	5.00	4.56	4.30	4.24	3.97	3.66	3.48	3.46

WATER YEAR 1960 : Max. 9.12 m. Min. 3.35 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	0.75	7.20	23	69	88	63	23	20	21	2.60	0.90
2	0.60	0.80	6.00	54	49	54	50	21	8.40	21	2.00	1.10
3	0.47	0.80	6.40	43	49	39	91	23	11	20	1.80	1.80
4	0.85	1.10	16	62	98	62	124	24	14	20	1.50	1.50
5	1.10	2.30	19	287	222	82	108	24	17	18	1.20	1.40
6	1.20	1.40	19	90	71	96	175	24	20	18	1.10	1.20
7	1.20	0.90	12	43	60	120	167	23	15	18	1.00	1.20
8	1.30	0.60	23	29	106	87	179	22	15	17	0.90	1.50
9	1.20	0.47	19	27	104	64	95	20	18	17	0.90	1.50
10	1.20	0.41	19	23	63	70	68	21	21	16	0.90	1.40
11	1.10	0.41	17	20	325	50	55	22	21	15	0.90	1.40
12	0.95	0.41	6.00	15	82	42	53	18	19	15	0.90	1.40
13	0.90	0.38	6.00	23	50	40	71	15	18	14	0.90	1.30
14	0.90	0.38	5.80	20	38	30	47	18	17	13	0.90	1.30
15	0.90	0.38	5.00	18	85	70	46	24	17	13	0.90	2.75
16	0.85	0.35	44	22	129	53	39	20	18	12	0.90	1.90
17	0.55	0.35	26	19	55	44	32	18	20	11	0.90	1.50
18	0.35	0.38	29	20	41	37	32	24	20	11	1.20	1.40
19	0.38	0.80	50	16	87	30	31	23	21	11	2.90	1.20
20	0.90	0.85	64	14	100	24	22	22	21	10	2.30	1.00
21	0.85	1.20	30	12	76	26	31	20	21	9.25	1.60	1.00
22	0.55	3.05	47	11	96	43	23	17	22	9.00	1.20	1.00
23	1.00	2.45	28	20	111	47	26	20	22	9.00	0.95	0.95
24	1.10	1.70	24	29	75	60	23	20	21	7.20	0.90	0.90
25	1.00	1.30	18	32	303	61	18	17	22	6.00	0.90	0.90
26	0.75	3.35	30	82	108	60	26	20	22	4.70	0.90	0.90
27	0.70	3.80	29	40	104	65	20	18	22	4.55	0.90	0.85
28	0.80	3.80	35	33	75	109	16	15	21	4.10	0.90	0.85
29	0.85	44	25	95	74	170	25	18	21	3.65	0.80	0.80
30	0.90	21	23	88	89	102	23	25	22	3.35	0.80	0.80
31		19		59	66		24		21	2.90	0.85	0.85
Total	26.10	118.87	688.40	1,369	3,060	1,925	1,803	619	588.40	374.70	34.85	38.35
Mean	0.87	3.83	22.9	44.1	98.7	64.1	58.1	20.6	19.0	12.1	1.24	1.24
Max.	1.30	44	64	287	325	170	179	25	22	21	2.60	2.75
Min.	0.35	0.35	5.00	11	38	24	16	15	8.40	2.90	0.90	0.80
Runoff - mcm.	2.255	10.270	59.478	118.282	264.384	166.320	155.779	53.482	50.838	32.374	3.011	3.313

WATER YEAR 1960 : Max. 325 Min. 0.35 Mean 29.2 Annual Runoff 919.786 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11	06.00	9.12	325				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
NAKHON NAYOK RIVER BASIN

Nakhon Nayok River at Khao Kariang (Hy.1)

Location: Lat $14^{\circ} - 14' - 22''$ N, Long $101^{\circ} - 16' - 45''$ E, on left bank, 12 kilometers upstream from Muang Nakhon Nayok and 10 kilometers on the country road, left of Suwanson Road, Amphoe Muang, Nakhon Nayok.

Drainage Area: 526 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.96 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank near the gage line.
Elevation: + 9.79 m.(M.S.L.)

Gage Reading Frequency: 6 - time daily readings at 06.00, 09.00, 12.00, 18.00 and 21.00 hours.

Basis of Mean Daily Gage Height: Arithmetic of 6 readings.

Period of Available Gage Records: 1952 to date.

Rating Operation:

Period of Rating: 1952 - 57
Rated by Float: -
Rated by Current Meter: 1952 - 57

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1955-57. For drought periods stage was effected by backwater at Nakhon Nayok Barrage, which is at downstream. No diversions for irrigation above gage site.

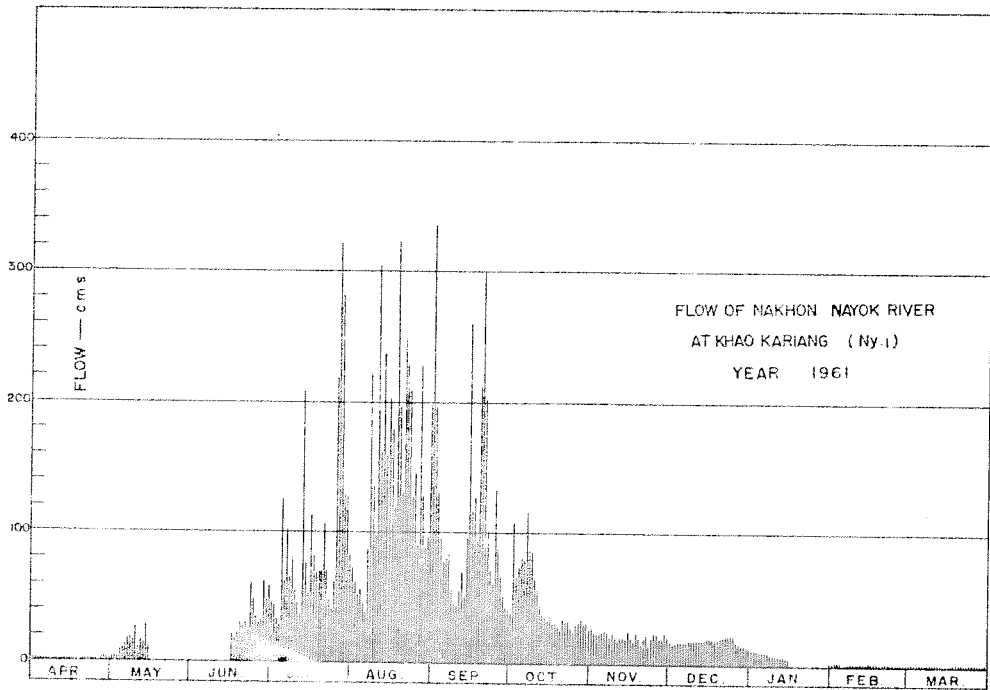
Remarks: No gage height record for May 16 - Jun. 15 and Jan. 16 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.48	3.71		5.17	5.83	9.18	4.98	4.69	4.27	4.09	3.52	3.47
2	.48	.70		.13	.52	7.44	6.54	.51	.26	.08	.52	.48
3	.47	.67		4.88	.33	6.73	5.53	.49	.29	.05	.51	.47
4	.46	.99		.70	.44	.29	.97	.49	.31	.00	.51	.47
5	.46	4.06		6.85	.15	5.93	6.01	.57	.31	.00	2.84	.47
6	3.45	4.16		5.55	4.97	5.98	5.95	4.61	4.30	4.00	3.50	3.47
7	.45	.32		6.46	6.51	6.07	6.69	.55	.31	3.96	.50	.47
8	.43	.35		5.62	8.21	5.34	.06	.36	.32	.91	.50	.47
9	.43	.30		6.01	6.90	.12	.11	.54	.32	.89	.50	.47
10	.43	.64		5.41	.24	.16	5.63	.39	.32	.86	.50	.47
11	3.43	4.06		5.10	8.97	5.49	5.46	4.34	4.35	3.84	3.50	3.47
12	.43	.28		4.88	7.38	.78	.13	.44	.36	.82	.49	.46
13	.46	.18		8.06	8.38	.22	4.93	.43	.38	.82	.49	.45
14	.46	.69		6.03	7.31	6.24	.93	.35	.40	.79	.51	.44
15	.46	.17		5.35	8.00	8.59	.80	.56	.40	.76	.53	.44
16	3.45		4.50	6.64	7.70	6.51	4.92	4.39	4.39		3.52	3.44
17	.44		.29	.10	6.56	.01	.77	.27	.40		.52	.45
18	.44		.50	5.75	9.10	.86	.79	.57	.40		.51	.45
19	.48		.77	.76	7.79	.30	.71	.41	.41		.51	.45
20	.55		.66	.77	6.90	8.93	.57	.22	.44		.51	.45
21	3.55		4.76	6.51	8.49	7.94	4.87	4.42	4.46		3.50	3.45
22	.49		.51	5.58	.28	6.25	.81	.51	.48		.49	.44
23	.48		5.55	.21	.07	5.67	.82	.15	.49		.48	.44
24	.47		.28	.00	6.83	.47	.62	.44	.49		.48	.44
25	.46		4.92	.74	7.19	6.97	.58	.56	.41		.47	.44
26	3.46		4.66	8.42	6.06	5.99	4.72	4.50	4.24		3.47	3.44
27	.65		.89	9.09	8.28	.59	.79	.28	.23		.47	.44
28	.73		5.59	8.77	6.81	.24	.86	.39	.21		.47	.43
29	.62		.19	6.87	.15	.07	.71	.54	.19			.43
30	.58		.53	.88	.33	.06	.80	.41	.15			.46
31				.02	7.85		.56		.11			.50
Mean	3.49			6.14	7.05	6.28	5.18	4.45	4.33		3.49	3.45
Max.	3.73			9.09	9.10	9.18	6.69	4.69	4.49		3.53	3.50
Min.	3.43			4.70	4.97	5.06	4.56	4.15	4.11		2.84	3.43

WATER YEAR 1961 : Max. 9.18 m. Min. 2.84 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	3.65		45	72	334	37	28	16	11	1.20	0.85
2	0.90	3.50		43	59	162	108	22	15	11	1.20	0.90
3	0.85	3.05		34	51	118	59	22	16	10	1.10	0.85
4	0.80	8.80		28	56	94	79	22	17	9.00	1.10	0.85
5	0.80	10		125	44	77	80	24	17	9.00	0.80	0.85
6	0.75	13		60	37	79	78	25	16	9.00	1.00	0.85
7	0.75	17		103	106	83	116	23	17	8.20	1.00	0.85
8	0.65	18		63	221	52	83	16	17	7.20	1.00	0.85
9	0.65	16		80	125	43	85	23	17	6.80	1.00	0.85
10	0.65	26		54	92	44	63	19	17	6.20	1.00	0.85
11	0.65	10		42	304	58	56	17	18	5.80	1.00	0.85
12	0.65	16		34	158	70	43	20	18	5.40	0.95	0.80
13	0.80	13		208	236	47	35	20	18	5.40	0.95	0.75
14	0.80	28		81	153	92	35	18	19	4.85	1.10	0.70
15	0.80	13		52	202	259	31	24	19	4.40	1.30	0.70
16	0.75		22	113	180	106	35	19	19		1.20	0.70
17	0.70		16	85	109	80	30	16	19		1.20	0.75
18	0.70		22	69	322	126	31	24	19		1.10	0.75
19	0.90		30	69	187	95	28	19	19		1.10	0.75
20	1.50		27	70	128	299	24	14	20		1.10	0.75
21	1.50		30	106	248	198	33	20	21		1.00	0.75
22	0.95		22	61	227	92	31	22	21		0.95	0.70
23	0.90		60	46	208	65	32	13	22		0.90	0.70
24	0.85		49	38	124	57	26	20	22		0.90	0.70
25	0.80		35	68	145	132	24	24	19		0.85	0.70
26	0.80		27	240	83	79	29	22	15		0.85	0.70
27	2.75		34	321	227	62	31	16	14		0.85	0.70
28	3.95		62	279	123	48	33	19	14		0.85	0.65
29	2.30		46	126	87	41	28	23	13			0.65
30	1.80		59	127	96	40	31	19	12			0.80
31				81	191		24					1.00
Total	32.55			2,951	4,604	3,132	1,458	615	541		27.75	24.10
Mean	1.08			95.1	148	104	47	20.5	17.4		0.99	0.78
Max.	3.95			321	322	334	116	28	22		1.20	1.00
Min.	0.65			28	37	40	24	13	12		0.00	0.65
Runoff - mcm.	2.812			254.966	397.786	270.605	125.971		46.742		2.398	2.082

WATER YEAR 1961 : Max. 334 Min. 0.00 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	02.00	9.87	467				

340

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
NAKHON NAYOK RIVER BASIN

Nakhon Nayok River at Khao Kariang (Ny.1)

Location: Lat 14° - 14' - 22" N, Long 101° - 16' - 45" E, on left bank, 12 kilometers upstream from Muang Nakhon Nayok and 10 kilometers on the country road, left of Suwanson Road, Amphoe Muang, Nakhon Nayok.

Drainage Area: 526 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.96 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank near the gage line.

Elevation: +9.79 m.(M.S.L.)

Gage Reading Frequency: 6 - time daily readings at 06.00, 09.00, 12.00, 18.00 and 21.00 hours.

Basis of Mean Daily Gage Height: Arithmetic of 6 readings.

Period of Available Gage Records: 1952 to date.

Rating Operation:

Period of Rating: 1952 - 57

Rated by float: -

Rated by Current Meter: 1952 - 57

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

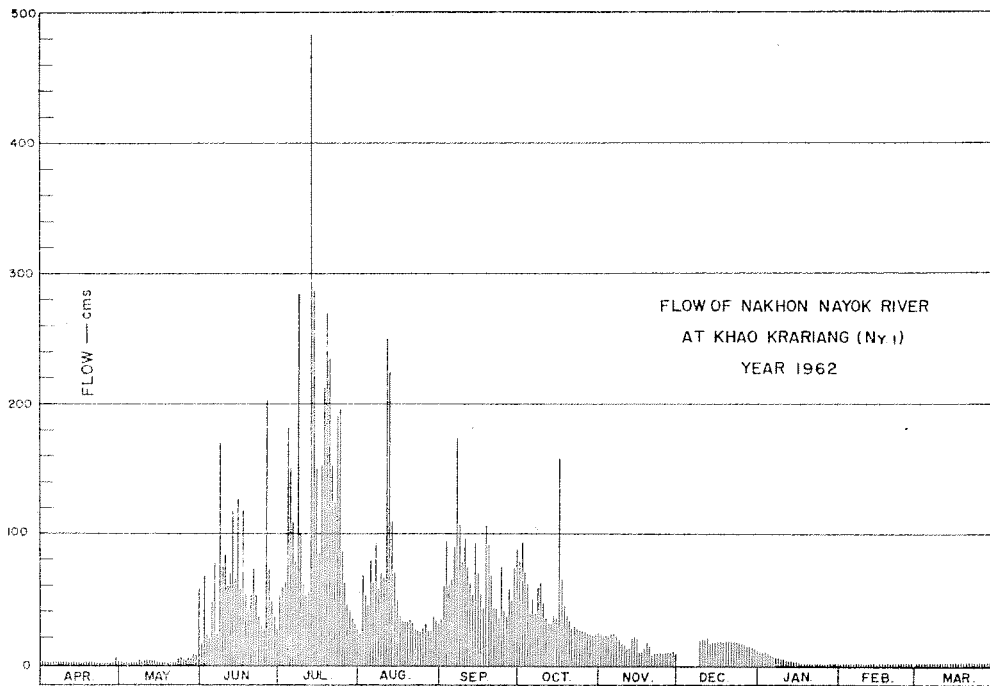
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1955 - 57. For drought periods stage was effected by backwater at Nakhon Nayok Barrage, which is at downstream. No diversions for irrigation above gage site.

Remarks: No gage height record for Dec. 1 - 8

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.50	3.54	4.30	5.38	4.53	4.91	5.99	4.53		4.06	3.48	3.46
2	.50	.53	5.73	.55	5.75	5.55	6.26	.50		.02	.48	.46
3	.49	.52	4.54	.63	.39	6.28	5.83	.51		3.99	.48	.46
4	.52	.51	.44	7.72	.17	5.58	.60	.50		.98	.48	.46
5	.52	.50	5.25	.28	6.00	.66	.03	.56		.90	.48	.46
6	3.53	3.50	5.95	6.56	5.61	6.28	5.30	4.58		3.87	3.48	3.46
7	.53	.57	4.54	5.97	6.27	7.62	.03	.50		.85	.48	.46
8	.53	.66	7.56	8.81	5.51	6.55	.49	.40		.85	.48	.46
9	.49	.65	5.92	6.40	.77	5.99	.63	.29	4.40	.80	.48	.47
10	.52	.64	6.09	5.58	.72	6.53	.26	.21	.42	.77	.48	.48
11	3.50	3.65	5.57	5.38	8.50	5.88	4.93	4.07	4.45	3.70	3.48	3.48
12	.43	.65	.78	.47	.23	.57	.81	.21	.46	.70	.48	.47
13	.42	.63	6.72	9.93	6.59	.38	.83	.45	.30	.69	.48	.47
14	.42	.60	5.69	8.84	5.77	6.26	5.00	.48	.32	.67	.51	.47
15	.42	.60	6.86	7.23	.30	5.79	4.93	.47	.34	.64	2.92	.47
16	3.42	3.57	5.49	6.12	4.99	5.39	7.39	3.99	4.36	3.61	3.49	3.46
17	.42	.55	6.72	7.32	.87	.16	5.66	4.04	.38	.57	.49	.46
18	.42	.53	5.40	8.12	.87	6.50	.21	.18	.38	.55	.48	.45
19	.45	.53	.13	.68	.86	.23	4.99	.32	.38	.53	.48	.45
20	.46	.53	.40	.36	.93	5.72	.86	.26	.38	.52	.48	.45
21	3.45	3.55	5.84	7.29	4.84	5.13	4.70	3.04	4.37	3.50	3.48	3.45
22	.45	.56	.42	6.84	.68	.13	.72	.97	.35	.48	.47	.45
23	.42	.75	4.96	7.83	.65	4.94	.68	.97	.35	.48	.47	.45
24	.42	.75	.76	.90	.59	5.89	.62	.98	.34	.48	.47	.45
25	.42	.72	.65	6.14	.72	.08	.64	4.00	.29	.48	.47	.45
26	3.45	3.71	8.00	5.59	4.81	4.98	4.59	4.02	4.25	3.48	3.47	3.45
27	.45	.79	5.86	.23	.61	5.50	.52	.02	.21	.48	.46	.45
28	.52	.79	.32	.10	.63	.28	.54	.04	.19	.48	.46	.45
29	.80	.99	4.96	4.92	.99	.87	.50	.01	.17	.48		.45
30	.62	.91	.67	.76	.88	6.16	.52	.00	.12	.48		.45
31		5.49		.63	.82		.57		.09	.48		.45
Mean	3.48	3.67	5.55	6.71	5.38	5.75	5.12	4.27		3.68	3.46	3.46
Max.	3.80	5.49	8.00	9.93	8.50	7.62	7.39	4.58		4.06	3.51	3.48
Min.	3.42	3.50	4.30	4.63	4.53	4.91	4.50	3.94		3.48	3.46	3.45

WATER YEAR 1962 : Max. 9.93 m. Min. 3.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	1.40	16	53	23	35	79	23		10	0.90	0.80
2	1.00	1.30	68	60	69	60	93	22		9.50	0.90	0.80
3	0.95	1.20	23	63	54	94	72	22		8.80	0.90	0.80
4	1.20	1.10	20	181	45	61	62	22		8.69	0.90	0.80
5	1.20	1.00	48	151	80	65	39	24		7.00	0.90	0.80
6	1.30	1.00	78	109	62	94	50	24		6.40	0.90	0.80
7	1.30	1.70	23	79	93	174	39	22		6.00	0.90	0.80
8	1.30	2.90	170	283	58	108	58	19		5.60	0.90	0.80
9	0.95	2.75	76	100	70	79	63	16		5.00	0.90	0.80
10	1.20	2.60	84	61	67	96	48	14	19	4.55	0.90	0.90
11	1.00	2.75	61	53	249	75	35	11	20	3.50	0.90	0.90
12	0.65	2.75	70	57	223	61	31	14	21	3.50	0.90	0.85
13	0.60	2.45	118	481	110	53	32	20	16	3.35	0.90	0.85
14	0.60	2.00	66	287	70	95	38	21	17	3.05	1.10	0.85
15	0.60	2.00	126	148	50	70	35	21	17	2.60	0.00	0.85
16	0.60	1.70	58	86	38	54	158	8.80	18	2.15	0.95	0.80
17	0.60	1.50	118	154	33	44	65	10	18	1.70	0.95	0.80
18	0.60	1.30	54	213	33	105	46	13	18	1.50	0.90	0.75
19	0.75	1.30	43	269	33	91	38	17	18	1.30	0.90	0.75
20	0.80	1.30	54	234	35	67	33	14	18	1.20	0.90	0.75
21	0.75	1.50	73	152	32	43	28	7.80	18	1.00	0.90	0.75
22	0.75	1.60	55	124	27	45	29	8.40	18	0.90	0.85	0.75
23	0.60	4.25	37	190	26	36	27	8.40	18	0.90	0.85	0.75
24	0.60	4.25	30	195	25	75	26	8.60	17	0.90	0.85	0.75
25	0.60	3.80	26	87	29	41	26	9.00	16	0.90	0.85	0.75
26	0.75	3.65	202	62	31	37	25	9.50	15	0.90	0.85	0.75
27	0.75	4.85	74	47	25	58	23	9.50	14	0.90	0.80	0.75
28	1.20	4.85	51	42	26	49	25	10	14	0.90	0.80	0.75
29	5.00	8.80	37	35	38	74	22	9.25	13	0.90		0.75
30	2.30	7.20	27	30	34	88	23	9.00	12	0.90		0.75
31		58		26	32		24		11	0.90		0.75
Total	30.80	138.75	1,986	4,112	1,820	2,125	1,390	447.25		105.39	24.15	24.55
Mean	1.03	4.47	66.2	13.3	58.7	70.7	44.8	14.9		3.39	0.86	0.79
Max.	5.00	58	202	481	249	174	158	24		10	1.10	0.90
Min.	0.60	1.00	16	26	23	35	22	7.80		0.90	0.80	0.75
Runoff - mcm.	2.670	11.988	171.590	355.277	157.248	183.427	120.096	38.642		9.106	2.086	2.121

WATER YEAR 1962 : Max. 481 Min. 0.60 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.13	06.00	10.09	523				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
NAKHON NAYOK RIVER BASIN

Khlong Tha Dan at Ban Tha Dan, Nakhon Nayok (Hy.1A)

Location: Lat 14° - 18' - 25" N, Long 101° - 19' - 40" E, on left bank, 1.8 kilometers upstream from the confluence of Lam Nang Rong and Khlong Tha Dan, Tambon Hintang, Amphoe Muang, Nakhon Nayok.

Drainage Area: 187 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +10.59 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank near the upper gage.

Elevation: 14.295 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 59

Rated by Float: -

Rated by Current Meter: 1958 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

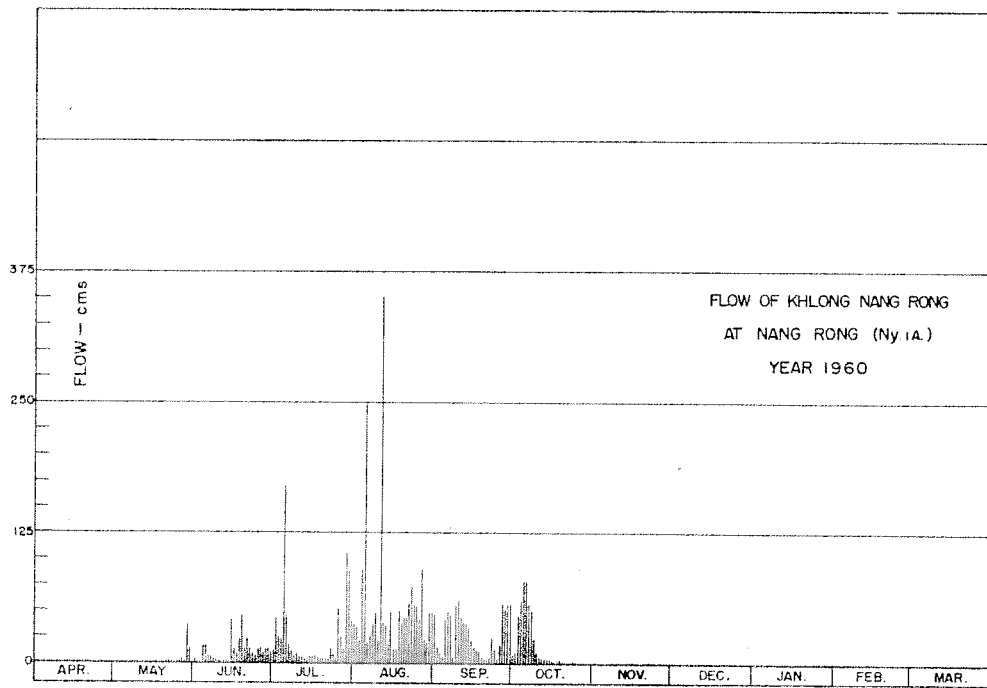
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1958 - 59. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10.72	10.66	11.69	12.13	12.67	12.80	11.98	11.53	11.27	11.08	10.87	10.84
2	.72	.65	.62	.75	.62	.24	12.04	.45	.25	.08	.87	.84
3	.72	.65	.56	.44	.36	.08	.77	.40	.24	.08	.86	.83
4	.70	.65	12.24	.40	13.30	11.89	.34	.37	.23	.08	.86	.91
5	.75	.63	.26	13.88	14.28	12.73	13.19	.28	.22	.07	.85	.89
6	10.75	10.63	11.95	12.79	12.32	12.84	13.19	11.28	11.20	11.07	10.85	10.90
7	.75	.61	.90	.28	.48	.80	12.94	.27	.19	.06	.84	.87
8	.75	.60	.79	.16	.66	11.81	.84	.25	.18	.06	.84	.85
9	.75	.60	.70	11.94	.81	12.91	.40	.24	.17	.05	.83	.83
10	.75	.60	.67	12.00	.39	.97	.08	.23	.16	.05	.83	.84
11	10.73	10.60	11.65	11.93	14.65	12.79	11.89	11.22	11.15	11.04	10.83	10.82
12	.73	.60	.61	.92	12.67	.69	.81	.21	.14	.04	.83	.94
13	.73	.60	.63	.84	.63	.67	.84	.31	.13	.03	.83	.91
14	.73	.60	.63	.81	.30	.61	.72	.28	.12	.03	.89	.88
15	.73	.60	12.73	.94	.83	.38	.75	.27	.11	.02	.93	.85
16	10.73	10.60	12.24	11.91	12.16	12.23	11.66	11.26	11.10	11.02	10.91	10.84
17	.73	.61	.04	.93	.17	.18	.56	.26	.10	.01	.90	.96
18	.72	.61	.40	.85	.84	.13	.67	.36	.10	.01	.90	.94
19	.72	.69	.78	.84	.67	11.94	.71	.34	.10	.00	.89	.93
20	.72	.99	.19	.83	.75	.70	.63	.27	.10	10.00	.89	.90
21	10.72	11.39	12.41	11.81	12.75	11.71	11.50	11.26	11.10	10.99	10.87	10.90
22	.69	.37	.15	.81	.93	.85	.42	.46	.10	.98	.87	.90
23	.69	.32	.05	12.19	13.13	12.43	.30	.41	.10	.97	.86	.89
24	.68	.29	11.94	11.97	12.92	.15	.14	.41	.09	.96	.86	.89
25	.67	.66	12.17	.84	.93	11.82	.50	.44	.09	.95	.85	.86
26	10.66	11.54	12.23	12.87	12.74	12.25	11.42	11.24	11.09	10.94	10.84	10.88
27	.62	.69	.11	.44	13.31	.94	.40	.19	.08	.94	.84	.87
28	.62	.53	.15	.14	12.41	.87	.37	.26	.08	.93	.84	.87
29	.61	12.64	.15	13.44	.32	.93	.34	.20	.08	.91	.87	.87
30	.60	.20	.10	.29	.82	.94	.30	.45	.08	.90	.86	.86
31		11.54		12.69	.82		.26			.90	.86	.86
Mean	10.71	11.00	11.02	12.26	12.79	12.41	11.87	11.31	11.14	10.97	10.86	10.88
Max.	10.75	12.64	12.78	13.88	14.65	12.97	13.19	11.53	11.27	11.08	10.93	10.96
Min.	10.60	10.60	11.56	11.81	12.16	11.70	11.14	11.19	11.08	10.00	10.83	10.82

WATER YEAR 1960 : Max. 14.65 m. Min. 10.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	2.60	12	38	47	7.86	1.18	0.35	0.08	0.00	0.00
2	0.00	0.00	1.84	43	35	16	9.38	0.80	0.30	0.08	0.00	0.00
3	0.00	0.00	1.36	25	21	10	45	0.60	0.28	0.08	0.00	0.00
4	0.00	0.00	16	23	89	5.91	20	0.54	0.26	0.08	0.00	0.00
5	0.00	0.00	17	170	250	42	78	0.35	0.24	0.07	0.00	0.00
6	0.00	0.00	7.20	46	19	50	78	0.36	0.20	0.07	0.00	0.00
7	0.00	0.00	6.10	17	27	47	57	0.34	0.19	0.06	0.00	0.00
8	0.00	0.00	4.06	13	37	4.39	50	0.30	0.18	0.06	0.00	0.00
9	0.00	0.00	2.60	6.93	48	55	23	0.28	0.17	0.05	0.00	0.00
10	0.00	0.00	2.44	6.30	22	60	10	0.26	0.16	0.05	0.00	0.00
11	0.00	0.00	2.20	6.76	350	46	5.91	0.24	0.15	0.04	0.00	0.00
12	0.00	0.00	1.72	6.54	38	39	4.39	0.22	0.14	0.04	0.00	0.00
13	0.00	0.00	1.96	4.96	36	38	4.96	0.42	0.13	0.03	0.00	0.00
14	0.00	0.00	1.96	4.39	18	34	3.08	0.36	0.12	0.03	0.00	0.00
15	0.00	0.00	42	6.98	49	22	3.30	0.34	0.11	0.02	0.00	0.00
16	0.00	0.00	16	6.32	13	15	2.32	0.32	0.10	0.02	0.00	0.00
17	0.00	0.00	9.38	6.76	13	13	1.36	0.32	0.10	0.01	0.00	0.00
18	0.00	0.00	23	5.15	50	12	2.44	0.52	0.10	0.01	0.00	0.00
19	0.00	0.00	46	4.96	38	6.98	2.94	0.48	0.10	0.00	0.00	0.00
20	0.00	0.00	14	4.77	43	2.80	1.96	0.34	0.10	0.00	0.00	0.00
21	0.00	0.58	23	4.39	43	2.94	1.00	0.32	0.10	0.00	0.00	0.00
22	0.00	0.54	13	4.39	58	5.15	0.68	0.84	0.10	0.00	0.00	0.00
23	0.00	0.44	9.65	14	73	24	0.40	0.64	0.10	0.00	0.00	0.00
24	0.00	0.38	6.98	7.64	56	13	0.14	0.64	0.09	0.00	0.00	0.00
25	0.00	2.32	13	4.96	56	4.58	1.00	0.76	0.09	0.00	0.00	0.00
26	0.00	1.24	15	52	43	16	0.68	0.28	0.09	0.00	0.00	0.00
27	0.00	2.68	11	25	90	57	0.60	0.19	0.08	0.00	0.00	0.00
28	0.00	1.18	13	12	23	52	0.54	0.32	0.08	0.00	0.00	0.00
29	0.00	36	13	105	19	56	0.48	0.20	0.08	0.00	0.00	0.00
30	0.00	14	11	88	48	57	0.40	0.80	0.08	0.00	0.00	0.00
31	0.00	1.24	39	48	48	0.32				0.00	0.00	0.00
Total	0.00	60.80	348.33	778.25	1,791	653.75	417.34	13.57	4.36	0.88	0.00	0.00
Mean	0.00	1.95	11.5	25.1	57.7	28.4	13.5	0.45	0.14	0.05	0.00	0.00
Max.	0.00	36	46	170	350	60	78	1.18	0.34	0.08	0.00	0.00
Min.	0.00	0.00	1.36	4.39	13	2.80	0.14	0.19	0.08	0.00	0.00	0.00
Runoff - mcm.	0.00	5.236	30.096	67.241	154.742	73.764	36.058	1.172	0.377	0.075	0.000	0.000

WATER YEAR 1960 : Max. 350 Min. 0.00 Mean 11.7 Annual Runof 368.762 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11	6.00	14.65	350				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
NAKHON NAYOK RIVER BASIN

Khlong Tha Dan at Ban Tha Dan, Nakhon Nayok (Ny.1A)

Location: Lat 14° - 18' - 25" N, Long 101° - 19' - 40" E, on left bank, 1.8 kilometers upstream from the confluence of Lam Nang Rong and Khlong Tha Dan, Tambon Hintang, Amphoe Muang, Nakhon Nayok.

Drainage Area: 187 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +10.59 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank near the upper gage.

Elevation: 14.295 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 59

Rated by Float: -

Rated by Current Meter: 1958 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

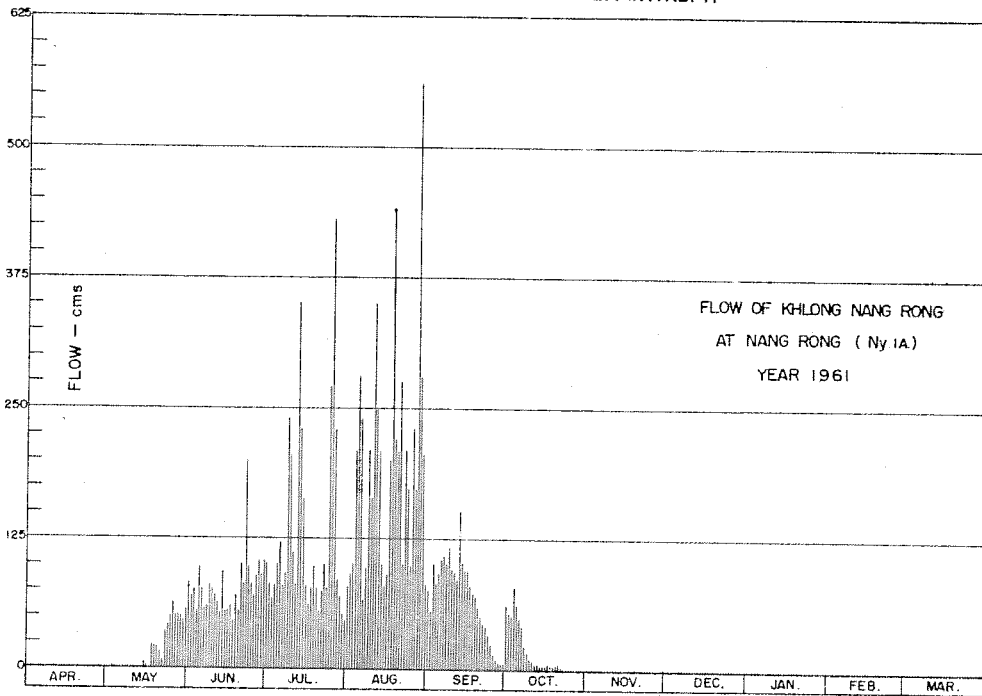
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1958 - 59. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10.86	11.21	13.24	13.42	13.21	13.15	13.00	11.34	10.84	10.87	10.80	10.96
2	.85	.14	.10	.23	.32	12.93	12.88	.32	11.18	.86	.80	.96
3	.84	.68	.17	.09	.42	13.42	.87	.28	.15	.85	.80	.96
4	.83	.49	12.91	.22	14.09	.23	13.20	.25	.13	.84	.79	.96
5	.81	.30	13.39	.42	.39	.33	.00	.22	.11	.83	.79	.95
6	10.80	11.18	13.17	13.57	14.20	13.44	12.81	11.18	11.09	10.83	10.78	10.95
7	.79	.37	12.95	.22	13.07	.47	.73	.15	.07	.82	.77	.94
8	.86	.44	.99	.33	.37	.42	.42	.12	.06	.82	.77	.94
9	.87	.43	13.22	14.21	14.11	.53	.27	.67	.04	.81	.77	.94
10	.86	.34	.17	.06	13.84	.37	.14	.02	.02	.81	.77	.93
11	10.85	11.30	13.10	13.50	14.65	13.34	12.00	10.97	11.00	10.80	10.78	10.93
12	.84	.27	.03	.23	.29	.27	11.92	.94	10.98	.80	.78	.92
13	.84	.23	12.90	14.64	.09	.77	.85	.92	.96	.79	.78	.92
14	.83	.44	13.34	.19	13.40	.42	.80	.90	.94	.79	11.06	.91
15	.82	.93	12.92	13.84	.21	.35	.74	.87	.92	.88	.05	.90
16	10.81	11.69	12.94	13.21	13.33	13.35	11.69	11.07	10.90	10.88	11.04	10.89
17	11.05	.54	.99	.01	14.00	.20	.91	.02	.88	.88	.04	.89
18	.06	12.43	.79	.19	.94	.14	.83	10.99	.86	.87	.04	.88
19	.05	.39	13.11	.39	.13	.09	.76	.97	.84	.87	.03	.87
20	.19	.36	12.93	.20	.09	12.96	.71	.95	.82	.87	.03	.86
21	11.14	12.24	13.41	12.93	14.37	12.87	11.85	10.93	10.93	10.86	11.03	10.85
22	.13	.04	.22	13.15	13.41	.76	.73	.90	.91	.86	.02	.84
23	.10	.63	14.02	.40	14.09	.71	.63	.87	.89	.85	.02	.83
24	.09	.75	13.39	.19	13.90	.61	.42	.85	.87	.85	.01	.82
25	.06	.85	.22	14.34	.40	.42	.31	.84	.85	.84	.01	.81
26	11.04	13.03	13.12	14.90	14.19	12.23	11.25	10.82	10.83	10.84	11.00	10.80
27	.00	12.86	.29	.19	13.90	.11	.17	.95	.81	.83	10.99	.79
28	10.98	.87	.43	13.29	15.29	11.95	.10	.92	.85	.83	.98	.78
29	.96	.85	.32	.10	14.40	.86	.05	.89	.83	.82		.77
30	11.23	.80	.43	12.90	.04	.85	10.99	.86	.81	.82		.76
31		.93		.82	13.22		.89		.79	.82		.75
Mean	10.95	11.97	13.17	13.50	13.95	12.98	11.93	11.01	10.94	10.84	10.91	10.88
Max.	11.23	13.03	14.02	14.90	15.29	13.77	13.00	11.34	11.18	10.87	11.06	10.96
Min.	10.79	11.14	12.79	12.82	13.21	11.85	10.89	10.84	10.79	10.77	10.77	10.75

WATER YEAR 1961 : Max. 15.29 m. Min. 10.75 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.22	83	102	80	75	62	0.48	0.00	0.00	0.00	0.00
2	0.00	0.14	70	82	91	56	53	0.44	0.18	0.00	0.00	0.00
3	0.00	2.56	77	69	102	102	52	0.56	0.15	0.00	0.00	0.00
4	0.00	0.96	55	81	210	82	79	0.30	0.15	0.00	0.00	0.00
5	0.00	0.40	99	102	280	92	62	0.24	0.11	0.00	0.00	0.00
6	0.00	0.18	77	122	240	105	48	0.18	0.09	0.00	0.00	0.00
7	0.00	0.54	58	81	68	108	42	0.15	0.07	0.00	0.00	0.00
8	0.00	0.76	61	92	97	102	24	0.12	0.06	0.00	0.00	0.00
9	0.00	0.72	81	240	210	116	17	0.07	0.04	0.00	0.00	0.00
10	0.00	0.48	77	205	163	97	12	0.02	0.02	0.00	0.00	0.00
11	0.00	0.40	70	112	350	93	8.30	0.00	0.00	0.00	0.00	0.00
12	0.00	0.34	64	82	250	86	5.54	0.00	0.00	0.00	0.00	0.00
13	0.00	0.26	54	350	210	151	5.15	0.00	0.00	0.00	0.00	0.00
14	0.00	0.76	95	230	100	102	4.20	0.00	0.00	0.00	0.00	0.00
15	0.00	6.76	56	163	80	94	3.36	0.00	0.00	0.00	0.00	0.00
16	0.00	2.68	57	80	92	94	2.68	0.07	0.00	0.00	0.00	0.00
17	0.05	1.24	61	63	200	79	6.32	0.02	0.00	0.00	0.00	0.00
18	0.06	24	46	78	440	74	4.77	0.00	0.00	0.00	0.00	0.00
19	0.05	22	71	99	220	69	3.64	0.00	0.00	0.00	0.00	0.00
20	0.19	21	56	79	210	59	2.94	0.00	0.00	0.00	0.00	0.00
21	0.14	16	101	56	275	52	5.15	0.00	0.00	0.00	0.00	0.00
22	0.13	9.38	81	75	101	44	3.22	0.00	0.00	0.00	0.00	0.00
23	0.10	36	200	100	210	41	1.96	0.00	0.00	0.00	0.00	0.00
24	0.09	43	99	78	173	34	0.68	0.00	0.00	0.00	0.00	0.00
25	0.06	51	81	270	100	24	0.42	0.00	0.00	0.00	0.00	0.00
26	0.04	64	72	430	230	15	0.30	0.00	0.00	0.00	0.00	0.00
27	0.00	51	88	230	173	11	0.17	0.00	0.00	0.00	0.00	0.00
28	0.00	52	104	88	560	7.20	0.10	0.00	0.00	0.00	0.00	0.00
29	0.00	51	91	70	280	5.34	0.05	0.00	0.00	0.00	0.00	0.00
30	0.26	47	104	54	205	5.15	0.00	0.00	0.00	0.00	0.00	0.00
31		56		48	81		0.00	0.00	0.00	0.00		0.00
Total	1.17	562.78	2,387	4,011	6,081	2,074.69	510.95	2.45	0.85	0.00	0.00	0.00
Mean	0.04	18.1	79.5	129	196	69.1	16.5	0.08	0.03	0.00	0.00	0.00
Max.	0.26	64	200	430	560	151	79	0.48	0.18	0.00	0.00	0.00
Min.	0.00	0.14	46	48	80	5.15	0.00	0.00	0.00	0.00	0.00	0.00
Runoff - mcm.	0.101	48.624	206.237	346.550	525.398	179	44.146	0.211	0.073	0.00	0.00	0.000

WATER YEAR 1961 : Max. 560 Min. 0.00 Mean 42.8 Annual Runoff 1,350.595 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 28	6.00	15.29	560				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
NAKHON NAYOK RIVER BASIN

Khleng Tha Dan at Ban Tha Dan, Nakhon Nayok (Ny.1A)

Location: Lat 14° - 18' - 25" N, Long 101° - 19' - 40" E, on left bank, 1.8 kilometers upstream from the confluence of Lam Nang Rong and Khleng Tha Dan, Tambon Hintang, Amphoe Muang, Nakhon Nayok.

Drainage Area: 187 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +10.59 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank near the upper gage.
Elevation: 14.295 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 - 59
Rated by Float: -
Rated by Current Meter: 1958 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: • No overbank flow.

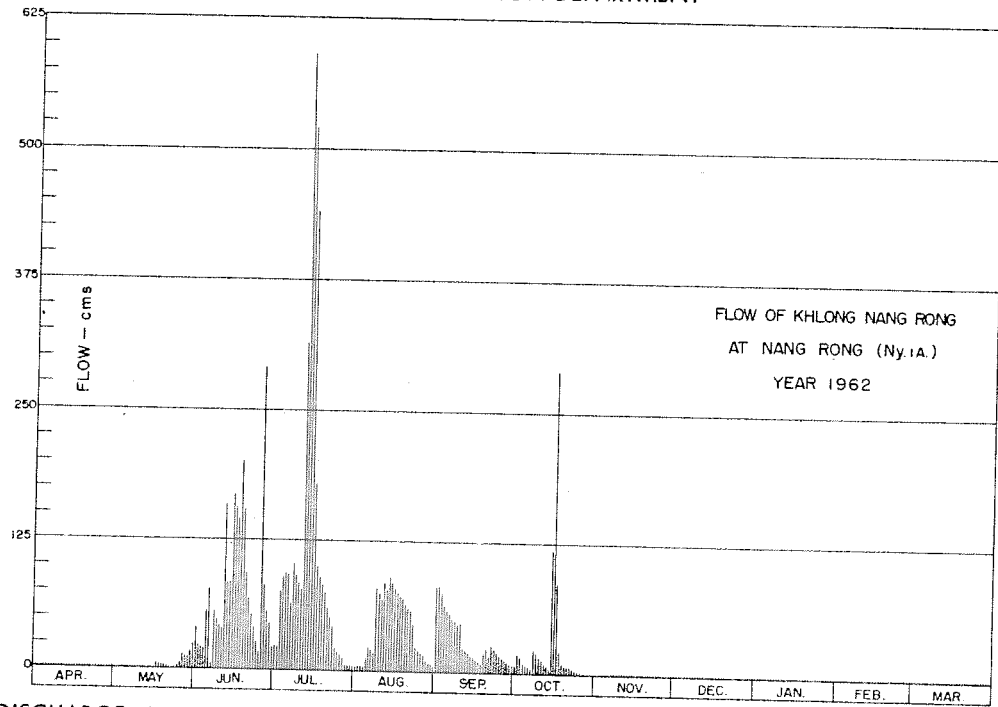
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurement during 1958 - 59. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10.74	11.30	12.75	12.45	11.86	13.23	11.99	11.18	10.87	10.79	10.74	10.72
2	.74	.27	.43	.43	.93	.23	12.33	.15	.86	.79	.74	.72
3	.75	.26	.39	13.17	.94	.16	.26	.13	.86	.79	.74	.72
4	.73	.22	.34	.32	.33	.02	.10	.10	.86	.79	.74	.72
5	.73	.20	.93	.35	12.18	12.96	.05	.07	.85	.78	.73	.72
6	10.72	11.19	13.19	13.34	12.43	12.92	11.96	11.05	10.85	10.78	10.73	10.72
7	.72	.43	11.93	.05	.38	.87	.86	.04	.85	.78	.73	.73
8	.72	.40	12.93	.43	.33	.84	12.42	.03	.84	.78	.73	.73
9	.71	.48	.83	.33	13.21	.78	.35	.02	.84	.78	.73	.74
10	.71	.46	.74	.25	.15	.74	.28	.01	.84	.78	.73	.74
11	10.70	11.43	12.71	13.19	13.10	12.43	12.19	11.00	10.84	10.77	10.76	10.74
12	.70	.43	13.82	14.50	.26	.37	.11	10.99	.84	.77	.77	.75
13	.70	.39	.24	15.32	.18	.33	.05	.98	.84	.77	.76	.75
14	.70	.46	.26	.23	.32	.27	11.96	.97	.83	.77	.76	.76
15	.70	.43	.87	14.93	.26	.22	13.54	.96	.83	.77	.76	.76
16	10.70	11.40	13.80	13.93	13.21	12.16	14.41	10.95	10.83	10.77	10.75	10.76
17	.69	.92	.74	.42	.16	.12	13.28	.94	.83	.77	.75	.77
18	.69	.86	14.04	.32	.13	.08	12.40	.93	.82	.77	.75	.77
19	.74	.81	13.79	.24	.10	.33	.11	.92	.82	.77	.75	.78
20	.73	.76	.34	.15	.05	.43	.01	.92	.82	.76	.75	.78
21	10.70	11.70	13.09	12.99	12.99	12.27	11.94	10.92	10.82	10.76	10.74	10.80
22	.75	.67	12.89	.87	.96	.46	.87	.91	.82	.76	.74	.80
23	.76	.55	.74	.76	.78	.41	.81	.91	.81	.76	.74	.82
24	.77	.41	.46	.41	.43	.34	.76	.90	.81	.76	.74	.82
25	.79	.83	.32	.32	.39	.27	.71	.90	.81	.75	.73	11.44
26	10.85	11.95	14.42	12.24	12.32	12.22	11.52	10.89	10.81	10.75	10.73	11.43
27	.86	12.23	13.21	.17	.26	.16	.44	.89	.80	.75	.73	.42
28	.87	.17	12.92	11.92	.12	.11	.37	.88	.80	.74	.73	.42
29	11.34	.12	.78	.89	.06	.05	.31	.87	.80	.74		.40
30	.32	.33	.41	.88	11.98	.00	.25	.87	.80	.74		.40
31		.43		.87	.94		.19			.74		.40
Mean	10.78	11.63	13.04	13.12	12.60	12.49	12.09	10.98	10.83	10.77	10.74	10.90
Max.	11.34	12.43	14.42	15.32	15.32	13.23	14.41	11.18	10.87	10.79	10.75	11.44
Min.	10.69	11.19	11.93	11.87	11.33	12.00	11.19	10.87	10.80	10.74	10.72	10.72

WATER YEAR 1962 : Max. 15.32 m. Min. 10.69 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.40	42	25	5.34	82	8.08	0.18	0.00	0.00	0.00	0.00
2	0.00	0.34	24	24	6.76	82	19	0.15	0.00	0.00	0.00	0.00
3	0.00	0.32	22	77	6.98	76	17	0.13	0.00	0.00	0.00	0.00
4	0.00	0.24	20	91	0.46	64	11	0.10	0.00	0.00	0.00	0.00
5	0.00	0.20	56	94	13	59	9.11	0.07	0.00	0.00	0.00	0.00
6	0.00	0.19	78	93	24	56	7.42	0.05	0.00	0.00	0.00	0.00
7	0.00	0.72	6.76	66	22	52	5.91	0.04	0.00	0.00	0.00	0.00
8	0.00	0.60	56	104	19	50	24	0.03	0.00	0.00	0.00	0.00
9	0.00	0.92	49	92	80	46	20	0.02	0.00	0.00	0.00	0.00
10	0.00	0.84	43	84	75	43	17	0.01	0.00	0.00	0.00	0.00
11	0.00	0.72	41	78	70	24	14	0.00	0.00	0.00	0.00	0.00
12	0.00	0.72	159	315	85	21	11	0.00	0.00	0.00	0.00	0.00
13	0.00	0.58	83	590	78	19	9.65	0.00	0.00	0.00	0.00	0.00
14	0.00	0.84	85	520	91	17	7.42	0.00	0.00	0.00	0.00	0.00
15	0.00	0.72	168	440	85	15	118	0.00	0.00	0.00	0.00	0.00
16	0.00	0.60	156	180	80	13	290	0.00	0.00	0.00	0.00	0.00
17	0.00	6.54	147	102	76	12	87	0.00	0.00	0.00	0.00	0.00
18	0.00	5.34	200	91	73	10	23	0.00	0.00	0.00	0.00	0.00
19	0.00	4.39	154	83	70	19	11	0.00	0.00	0.00	0.00	0.00
20	0.00	3.64	93	75	66	24	8.57	0.00	0.00	0.00	0.00	0.60
21	0.00	2.80	69	61	61	17	6.98	0.00	0.00	0.00	0.00	0.00
22	0.00	2.44	53	52	59	26	5.53	0.00	0.00	0.00	0.00	0.00
23	0.00	1.30	43	44	46	23	4.39	0.00	0.00	0.00	0.00	0.00
24	0.00	0.64	26	23	24	20	3.64	0.00	0.00	0.00	0.00	0.00
25	0.00	4.77	19	19	22	17	2.94	0.00	0.00	0.00	0.00	0.76
26	0.00	7.20	290	16	19	15	1.12	0.00	0.00	0.00	0.00	0.72
27	0.00	15	80	13	17	13	0.76	0.00	0.00	0.00	0.00	0.68
28	0.00	13	56	6.54	12	11	0.54	0.00	0.00	0.00	0.00	0.68
29	0.48	12	46	5.91	9.92	9.65	0.42	0.00	0.00	0.00	0.00	0.60
30	0.44	19	23	5.72	7.86	8.30	0.30	0.00	0.00	0.00	0.00	0.60
31		24		5.53	6.98		0.19		0.00	0.00	0.00	0.60
Total	0.92	131.01	2,387.76	3,475.70	1,311.30	943.95	774.97	0.78	0.00	0.00	0.00	4.04
Mean	0.03	4.22	79.6	112	42.3	31.5	24	0.03	0.00	0.00	0.00	0.13
Max.	0.48	24	290	590	91	82	290	0.18	0.00	0.00	0.00	0.76
Min.	0.00	0.19	6.67	5.53	0.46	8.30	0.19	0.00	0.00	0.00	0.00	0.00
Runoff - mcm.	0.079	11.319	206.302	300.300	113.296	81.557	66.957	0.067	0.000	0.000	0.000	0.349

WATER YEAR 1962 : Max. 590 Min. 0.00 Mean 24.7 Annual Runoff 780.229 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 13	6.00	15.32	590				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.5)

Location: Lat 13°-59' - 15" N, Long 100°-42' - 32" E, on left bank in front of the office of Amphoe Kabin Buri and 500 meters downstream from the confluence of Lam Phra Proeng and Lam Hanuman, Prachin Buri.

Drainage Area: 7,502 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank at the fence of Amphoe Kabin Buri.
Elevation: +10.178 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 - 44, 1949 and 1964 to date.
Rated by Float: 1941, 1943 - 44, 1949
Rated by Current Meter: 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

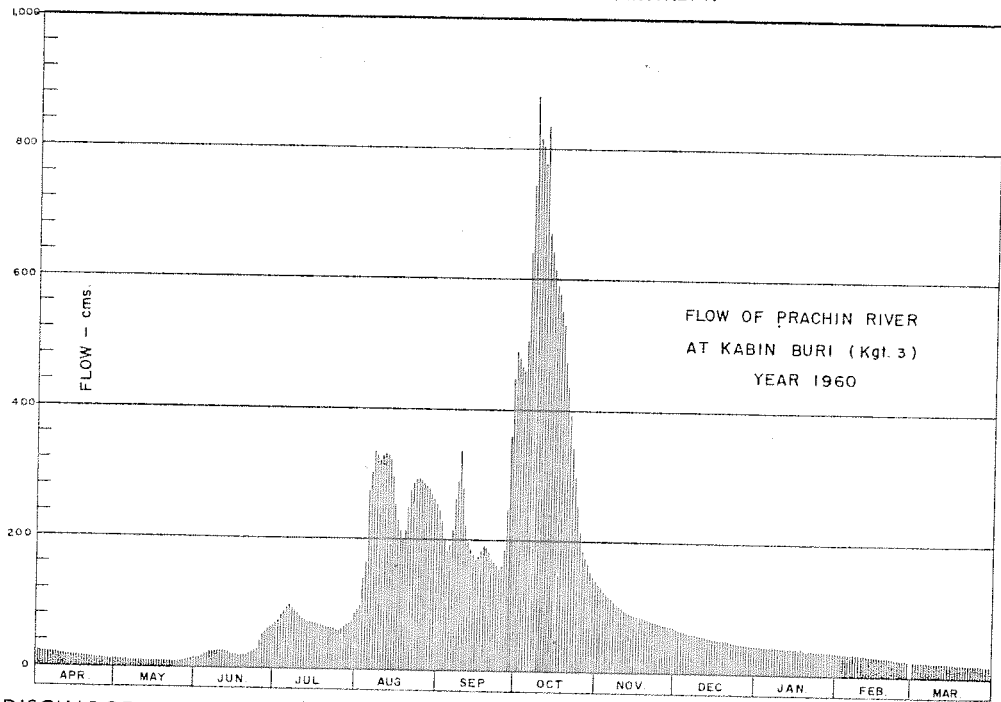
General Description: Record poor. Stage - discharge relationship used is defined by discharge measurements made during 1964 - 67. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.35	1.01	1.12	2.69	3.11	5.64	8.08	3.94	2.63	2.01	1.79	1.45
2	.34	.00	.18	.75	.26	.38	7.96	.85	.58	.00	.78	.44
3	.34	0.99	.26	.88	.81	.03	.91	.75	.56	.00	.77	.43
4	.33	.99	.33	3.02	4.44	4.74	8.29	.68	.53	1.99	.76	.42
5	.32	.98	.38	.16	6.03	.92	9.26	.60	.51	.99	.75	.41
6	1.31	0.98	1.44	3.25	6.37	5.20	9.95	3.52	2.48	1.98	1.74	1.40
7	.30	.97	.47	.21	.73	.88	10.80	.44	.45	.98	.73	.39
8	.29	.96	.50	2.08	.66	6.22	.68	.36	.43	.98	.73	.38
9	.28	.95	.52	2.96	.57	.72	.33	.30	.41	.97	.72	.38
10	.27	.95	.56	.89	.62	.07	.16	.25	.39	.96	.71	.37
11	1.25	0.94	1.51	2.83	6.69	5.31	10.52	3.19	2.37	1.96	1.70	1.37
12	.24	.93	.47	.79	.68	4.96	9.47	.15	.35	.95	.69	.37
13	.23	.92	.43	.73	.57	.77	.29	.12	.33	.95	.68	.36
14	.22	.92	.33	.70	.27	.64	.09	.09	.32	.95	.67	.36
15	.21	.91	.34	.68	5.78	.53	8.91	.03	.30	.93	.66	.35
16	1.19	0.91	1.33	2.66	5.41	4.59	8.80	3.01	2.28	1.92	1.65	1.35
17	.18	.90	.31	.64	.18	.75	.63	2.98	.26	.91	.64	.34
18	.17	.90	.28	.62	.05	.88	.47	.95	.24	.92	.63	.33
19	.16	.89	.30	.59	.18	.85	.02	.93	.23	.89	.60	.32
20	.14	.87	.35	.56	.70	.75	7.72	.91	.21	.89	.59	.31
21	1.12	0.87	1.41	2.52	6.02	4.59	7.29	2.88	2.19	1.88	1.56	1.30
22	.10	.86	.47	.51	.17	.46	6.79	.85	.18	.88	.53	.30
23	.08	.86	.54	.49	.25	.36	.29	.83	.14	.87	.51	.29
24	.07	.85	.62	.48	.25	.29	5.78	.78	.12	.86	.50	.27
25	.06	.86	.94	.46	.22	.38	.32	.77	.10	.85	.49	.27
26	1.05	0.89	2.25	2.50	6.17	4.75	4.77	2.75	2.08	1.84	1.48	1.26
27	.04	.95	.35	.60	.13	5.65	.61	.74	.07	.85	.47	.26
28	.03	1.04	.43	.66	.07	6.97	.42	.73	.06	.82	.46	.25
29	.02	.11	.51	.70	5.99	7.81	.29	.71	.04	.81	.44	.24
30	.01	.18	.57	.79	.90	8.17	.14	.69	.03	.80	.43	.23
31		.16		.98	.82		.04		.02	.79		.22
Mean	1.19	0.95	1.58	2.75	5.77	5.31	7.74	3.16	2.30	1.91	1.64	1.34
Max.	1.35	1.18	2.57	3.25	6.73	8.17	10.80	3.94	2.63	2.01	1.79	1.45
Min.	1.01	0.85	1.12	2.46	3.11	4.29	4.04	2.69	2.02	1.79	1.46	1.22

WATER YEAR 1960 : Max. 10.80 m. Min. 0.85 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	12	15	71	92	245	480	135	68	43	35	24
2	21	12	16	74	100	227	465	130	66	43	34	24
3	21	12	19	81	128	202	459	124	65	43	34	24
4	21	12	21	88	165	183	506	121	64	43	34	24
5	21	12	22	95	275	194	640	117	63	43	33	23
6	20	12	24	99	303	216	744	113	62	42	33	23
7	20	11	25	97	336	263	880	109	61	42	33	23
8	20	11	26	91	329	291	816	105	60	42	33	22
9	19	11	27	85	321	335	805	102	59	42	33	22
10	19	11	28	81	326	279	778	99	59	41	32	22
11	18	11	26	78	332	222	835	96	58	41	32	22
12	18	11	25	76	331	197	671	94	57	41	32	22
13	18	10	24	73	321	185	645	93	56	41	31	22
14	17	10	22	72	295	177	617	91	56	40	31	22
15	17	10	21	71	255	171	591	88	55	40	31	21
16	17	10	21	70	229	174	576	87	54	40	30	21
17	16	10	20	69	213	184	552	86	53	39	30	21
18	16	10	19	68	203	192	530	84	53	40	30	21
19	16	9.80	20	66	213	190	472	83	52	39	29	20
20	15	9.40	21	55	249	184	436	82	51	36	29	20
21	15	9.40	23	64	275	174	391	81	51	38	28	20
22	14	9.20	25	63	287	167	341	79	50	38	27	20
23	14	9.20	27	63	293	161	296	78	49	38	26	20
24	13	9.00	30	62	293	156	255	76	48	37	26	19
25	13	9.20	41	61	291	162	222	75	47	37	26	19
26	13	9.80	53	65	287	184	185	74	46	37	25	19
27	13	11	57	67	283	245	176	74	46	36	25	19
28	13	13	60	70	279	359	164	73	45	36	25	18
29	12	14	63	72	272	447	156	72	45	35	25	18
30	12	16	66	76	265	490	147	71	44	35	25	18
31	12	16	66	86	259		141		44	35		18
Total	504	343.00	887	2,317	8,100	6,856	14,972	2,792	1,687	1,223	647	651
Mean	16.8	11.1	29.6	74.7	251	228	482	95.1	54.4	39.4	30.2	21.0
Max.	21	16	66	99	336	490	880	135	68	43	35	24
Min.	12	9.00	15	61	92	156	141	71	44	35	25	18
Runoff - mcm.	43.546	29.635	76.636	200.189	699.840	592.358	1,293.581	241.229	145.757	105.667	73.181	56.246

WATER YEAR 1960 : Max. 880 Min. 9.00 Mean 113 Annual Runoff 3,557.866 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 7	15.00	10.83	885				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.3)

Location: Lat 13°-59'-15" N, Long 100°-42'-32" E, on left bank in front of the office of Amphoe Kabin Buri and 500 meters downstream from the confluence of Lam Phra Proeng and Lam Hanuman, Prachin Buri.

Drainage Area: 7,502 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank at the fence of Amphoe Kabin Buri.

Elevation: +10.178 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 - 44, 1949 and 1964 to date.

Rated by Float: 1941, 1943 - 44, 1949

Rated by Current Meter: 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

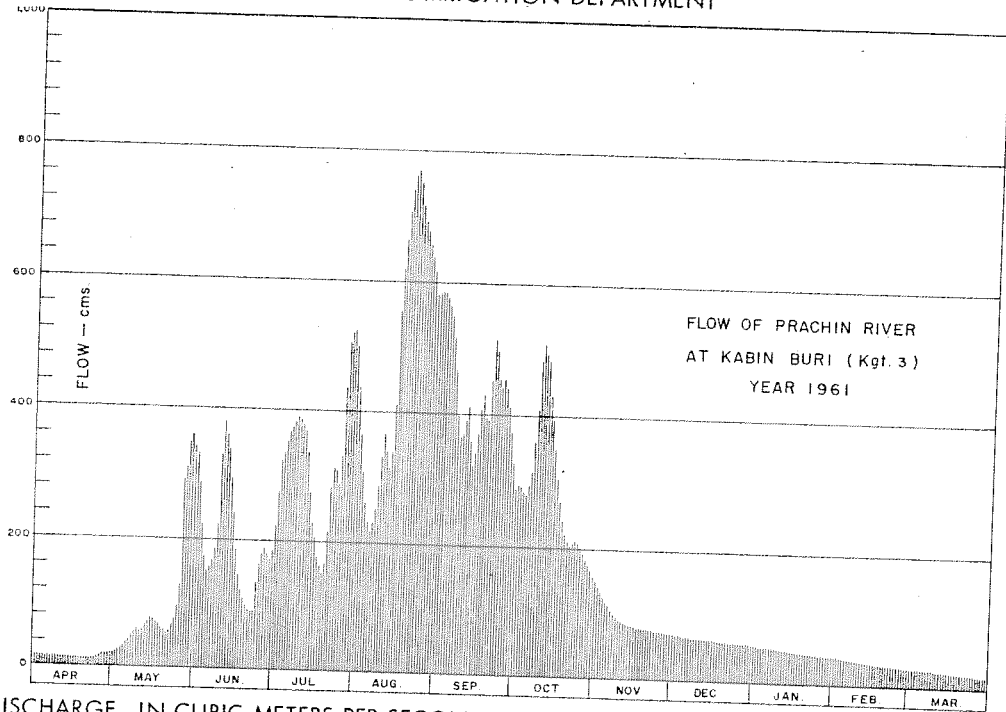
General Description: Record poor, Stage - discharge relationship used is defined by discharge measurements made during 1964 - 67. No diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.21	1.45	6.66	5.30	7.71	8.84	6.16	4.12	2.65	2.33	1.98	1.56
2	.21	.49	.18	6.05	.01	.86	.23	.00	.63	.32	.97	.55
3	.20	.58	5.33	.57	6.39	.80	.21	3.89	.62	.31	.96	.54
4	.19	.66	4.59	.71	5.82	.72	.12	.75	.61	.30	.95	.53
5	.18	.76	.21	.88	.43	.60	.05	.65	.60	.29	.93	.53
6	1.18	1.89	4.32	7.03	5.26	8.37	6.23	3.54	2.59	2.28	1.91	1.52
7	.17	2.04	.49	.12	.44	7.95	.44	.41	.58	.27	.89	.51
8	.17	.20	.77	.18	.71	.33	.65	.26	.57	.26	.87	.50
9	.16	.36	5.32	.26	6.16	.01	7.43	.15	.56	.24	.86	.49
10	.15	.42	6.65	.24	.69	.05	8.08	.08	.55	.22	.85	.47
11	1.14	2.35	7.17	7.16	7.04	7.28	8.29	3.03	2.54	2.21	1.84	1.44
12	.14	.39	6.97	.04	6.78	.46	.17	2.98	.53	.20	.83	.43
13	.13	.60	.74	6.70	.50	6.95	.08	.96	.52	.19	.80	.40
14	.12	.70	.23	.00	.75	.55	7.65	.92	.51	.18	.79	.39
15	.12	.81	5.58	5.40	7.47	.76	.30	.88	.50	.17	.77	.37
16	1.11	2.77	4.76	5.05	8.62	7.06	6.85	2.86	2.49	2.16	1.75	1.36
17	.11	.69	.08	4.52	9.11	.43	.36	.84	.48	.14	.73	.35
18	.10	.64	3.71	.38	.42	.65	5.93	.83	.47	.13	.71	.34
19	.09	.52	.47	.22	.70	.31	.56	.82	.46	.12	.69	.34
20	.09	.40	.33	.46	.90	.29	.28	.81	.45	.10	.67	.32
21	1.08	2.28	3.10	5.21	10.05	7.81	5.10	2.80	2.44	2.09	1.64	1.30
22	.08	.37	.08	6.12	.10	8.34	.01	.79	.43	.08	.65	.29
23	.10	.55	.10	.46	9.99	.20	.07	.78	.42	.07	.62	.28
24	.16	.71	.93	.42	.77	7.85	.13	.77	.41	.06	.61	.26
25	.20	3.19	4.39	.16	.59	.75	.07	.75	.40	.05	.60	.25
26	1.27	3.81	4.67	6.67	9.50	7.86	4.98	2.73	2.39	2.04	1.59	1.24
27	.32	6.22	.78	7.71	.36	.73	.86	.72	.39	.03	.58	.23
28	.35	.43	.67	8.28	.23	.47	.69	.70	.38	.02	.57	.22
29	.36	.84	.53	.38	.07	.10	.55	.69	.37	.01	.57	.21
30	.40	.96	.73	.42	8.82	6.60	.44	.67	.36	.00	.57	.20
31		.81		.25	.83		.30		.35	1.99		.20
Mean	1.18	3.06	4.82	6.46	7.98	7.66	6.07	3.07	2.49	2.16	1.77	1.37
Max.	1.40	6.96	7.17	8.42	10.10	8.86	8.29	4.12	2.65	2.33	1.98	1.56
Min.	1.08	1.45	3.08	4.22	5.26	6.55	4.30	2.67	2.35	1.99	1.57	1.20

WATER YEAR 1961 : Max. 10.10 m. Min. 1.08 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	24	329	221	435	582	286	149	69	56	42	28
2	17	26	287	277	363	584	291	139	68	56	42	27
3	17	28	223	321	305	576	290	132	68	55	41	27
4	17	31	174	334	259	565	283	124	67	55	41	27
5	16	34	152	350	230	548	277	119	67	55	40	27
6	16	39	158	365	218	516	291	114	67	54	39	27
7	16	45	168	374	231	464	310	107	66	54	39	26
8	16	51	185	380	250	395	328	100	66	53	38	26
9	16	57	222	388	286	363	405	94	65	53	37	26
10	15	60	328	386	332	367	480	91	65	52	37	25
11	15	57	379	378	366	390	506	88	65	51	37	24
12	15	59	359	366	340	408	490	86	64	50	36	24
13	15	67	337	333	315	357	480	85	64	51	35	23
14	15	72	291	273	337	319	428	83	63	50	35	23
15	15	77	241	228	409	338	392	81	63	50	34	22
16	14	75	185	203	551	368	347	80	63	49	33	22
17	14	71	144	176	619	405	302	79	62	49	33	21
18	14	69	122	162	664	428	267	78	62	48	32	21
19	14	64	110	152	706	393	239	78	61	48	32	21
20	14	59	103	167	736	391	220	77	61	47	31	21
21	14	54	92	215	760	447	207	77	61	47	30	20
22	14	58	91	283	768	512	201	76	60	46	30	20
23	14	65	92	311	750	494	205	76	60	46	30	19
24	16	76	135	308	716	452	209	75	59	45	29	19
25	17	96	162	286	689	440	205	74	59	45	29	18
26	19	128	179	330	676	453	199	73	59	45	29	18
27	21	291	186	435	655	438	191	73	59	44	28	18
28	21	309	179	504	636	409	180	72	58	44	28	18
29	22	346	171	517	614	372	172	71	58	43	28	17
30	23	358	183	523	579	324	165	70	57	43	28	17
31		343		500	580		157		57	43		17
Total	489	3,184	5,967	10,046	15,375	13,098	9,103	2,721	1,943	1,527	967	688
Mean	16.3	103	199	324	495	437	294	90.7	62.6	49.2	34.5	22.2
Max.	23	358	379	523	768	584	506	149	69	56	42	28
Min.	14	24	91	152	218	319	157	70	57	43	28	17
Runoff - mcm.	42.250	275.098	515.549	867.974	1,328.400	1,131.667	786.499	235.094	167.875	131.933	83.549	59.443

WATER YEAR 1961 : Max. 768 Min. 14 Mean 178 Annual Runoff 5,625.331 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	06.00	10.10	768				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.3)

Location: Lat 15° - 59' - 15" N, Long 100° - 42' - 32" E, on left bank in front of the office of Amphoe Kabin Buri and 500 meters downstream from the confluence of Lam Phra Proeng and Lam Hanuman, Prachin Buri.

Drainage Area: 7,502 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m. (M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank at the fence of Amphoe Kabin Buri

Elevation: +10.178 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 - 44, 1949 and 1964 to date.

Rated by Float: 1941, 1943 - 44, 1949

Rated by Current Meter: 1964 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Record poor. Stage - discharge relationship used is defined by discharge measurements made during 1964 - 67. No diversions for irrigation above gage site.

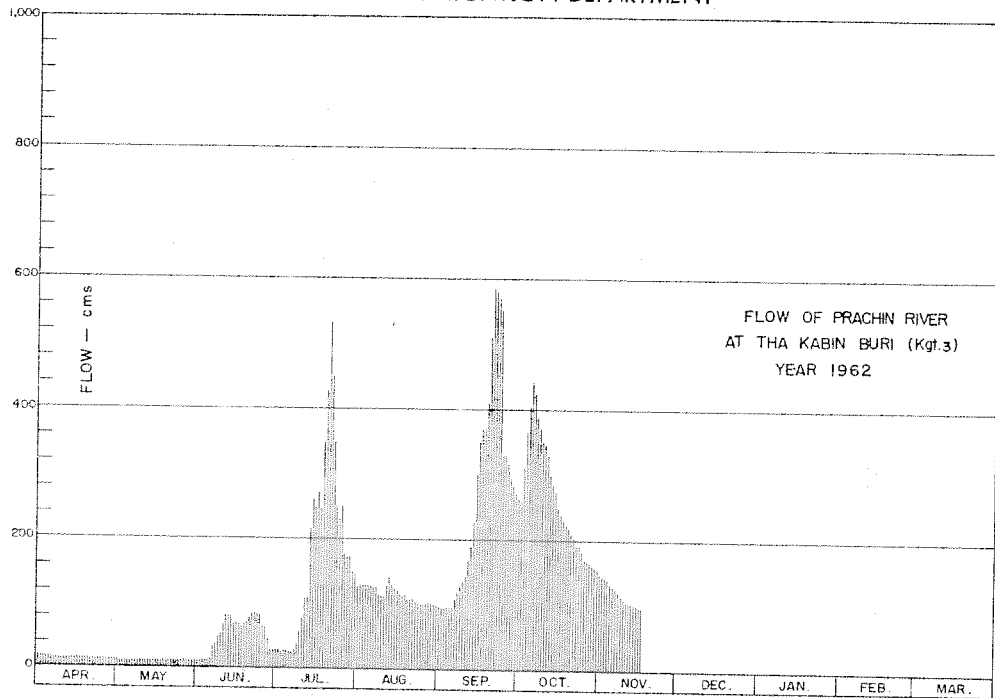
Remarks: No gage height record for Nov.18, 1962 - Mar.31, 1963.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.19	1.02	1.07	1.88	3.84	3.24	5.86	4.14				
2	.18	.02	.08	.88	.88	.20	.84	.11				
3	.17	.01	.09	.68	.92	.18	6.52	.06				
4	.16	.01	.10	.68	.86	.18	7.07	.01				
5	.16	.00	.12	.66	.88	.20	.46	3.94				
6	1.15	1.00	1.18	1.58	3.87	3.23	7.76	3.85				
7	.14	.00	.88	.58	.80	.62	.57	.79				
8	.13	0.99	.88	.88	.70	.74	.24	.67				
9	.13	.98	2.18	.98	.58	.94	.11	.57				
10	.12	.98	.20	2.54	.56	4.07	6.97	.47				
11	1.12	0.99	2.68	2.89	3.53	4.12	6.83	3.38				
12	.11	.99	.88	3.46	.88	.49	.72	.56				
13	.11	.98	.88	.96	4.08	.84	.50	.53				
14	.10	.98	.86	5.24	3.88	5.38	.17	.30				
15	.08	.98	.68	.88	.77	6.38	.01	.27				
16	1.08	0.98	2.68	5.78	3.73	6.96	5.69	3.24				
17	.07	1.00	.65	.98	.63	7.08	.57	2.98				
18	.07	.02	.58	.68	.56	.13	.48					
19	.07	.03	.62	6.88	.58	.43	.35					
20	.06	.03	.73	7.71	.45	8.53	.25					
21	1.06	1.03	2.88	8.48	3.46	8.86	5.15					
22	.05	.04	.98	7.88	.48	.83	.06					
23	.05	.06	.98	6.88	.36	.75	4.95					
24	.05	.07	.93	5.77	.31	.68	.87					
25	.04	.06	.93	.52	.29	6.77	.75					
26	1.04	1.06	2.58	5.82	3.32	6.69	4.66					
27	.04	.05	.54	4.68	.34	.54	.56					
28	.03	.05	.18	.58	.34	.26	.47					
29	.03	.05	1.88	.58	.32	.14	.38					
30	.03	.06	.88	.24	.30	.02	.28					
31		.07		.16	.26		.18					
Mean	1.09	1.01	2.21	4.33	3.59	5.72	5.81					
Max.	1.19	1.07	2.98	8.48	4.08	8.86	7.76					
Min.	1.03	0.98	1.07	1.58	3.26	3.18	4.18					

WATER YEAR 1962 : Max. 8.86 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	12	15	38	129	99	262	147				
2	16	12	14	38	132	97	260	146				
3	16	12	14	31	134	96	315	143				
4	16	12	14	31	131	96	369	140				
5	16	12	15	31	132	97	408	135				
6	15	12	16	28	131	98	441	130				
7	15	12	38	28	127	118	420	126				
8	15	12	38	38	122	124	386	120				
9	15	12	50	42	116	135	373	115				
10	15	12	51	65	115	143	359	110				
11	15	12	71	81	113	146	345	106				
12	14	12	81	110	132	168	335	105				
13	14	12	81	137	144	189	297	103				
14	14	12	80	217	132	227	287	102				
15	14	12	71	263	125	304	274	100				
16	14	12	71	255	123	358	248	99				
17	14	12	69	271	118	370	240	86				
18	13	12	66	248	115	375	234					
19	13	13	68	350	116	405	224					
20	13	13	73	435	109	538	217					
21	13	13	81	531	110	584	210					
22	13	13	86	456	111	580	204					
23	13	13	86	350	105	569	196					
24	13	13	83	255	102	559	191					
25	13	13	83	236	101	339	184					
26	13	13	66	259	103	332	179					
27	13	13	65	180	104	319	173					
28	13	13	50	174	104	294	167					
29	13	13	38	174	103	284	162					
30	13	13	38	153	102	275	156					
31	13	13		149	100		150					
Total	424	385	1,670	5,600	3,641	8,318	8,266					
Mean	14.6	12.4	55.7	181	117	277	267					
Max.	17	13	86	531	144	584	441					
Min.	13	12	13	28	100	96	150					
Runoff - mcm.	36.634	33.264	144.288	483.840	314.582	718.675	714.182					

WATER YEAR 1962 : Max. 584 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 20	18.00	8.87	586				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MAE KLONG RIVER BASIN.

Mae Klong River at Ban Tha Pha, Ratchaburi (K.1)

Location: Lat 15° - 50' - 25" N, Long 99° - 52' - 09" E, on left bank at the mouth of Tha Pha Canal and 50 meters upstream from Tha Pha Regulator, Amphoe Ban Pong, Ratchaburi.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank of Tha Pha Canal at the abutment of Tha Pha Regulator.

Elevation: +12.500 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: 1914 - 27, 1933 - 44, 1948 to date.

Rating Operation:

Period of Rating: 1963, 1965 - 66

Rated by Float: -

Rated by Current Meter: 1963, 1965 - 66.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

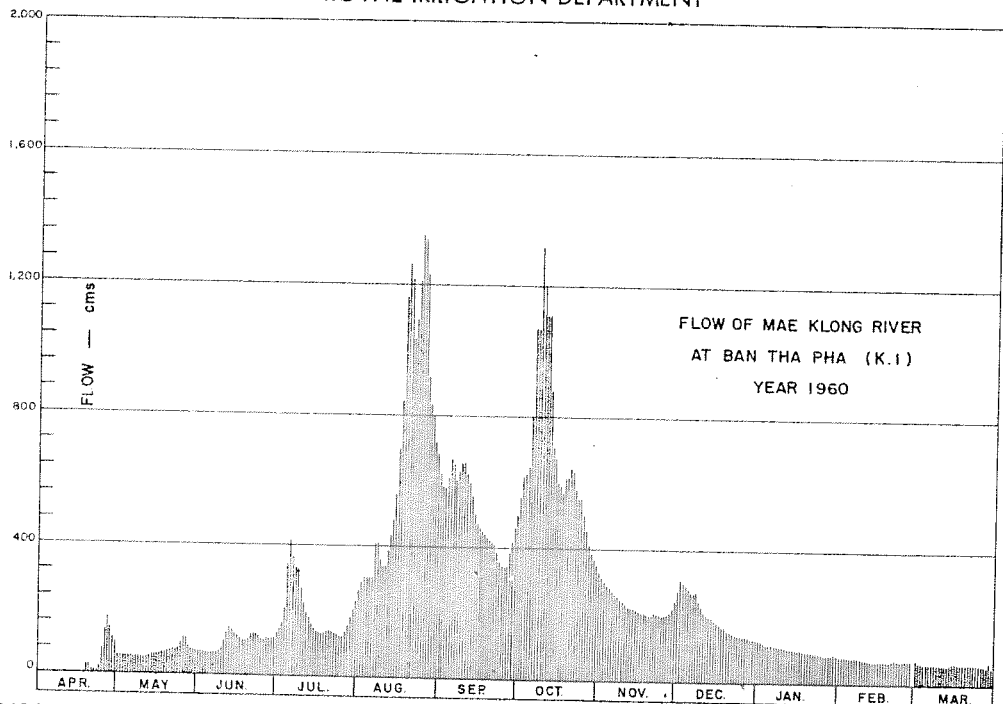
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements made for period 1965. Flow diverted by Tha Pha Regulator, which is in Tha Pha Canal 50 meters from gage site and upstream state diversions of about 3,200 hectares are made. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.10	5.12	5.28	5.66	6.41	7.91	7.50	6.70	6.43	5.61	5.30	5.21
2	.10	.11	.25	.75	.48	.75	.67	.63	.60	.60	.30	.20
3	.10	.11	.23	.85	.59	.73	.86	.57	.56	.58	.30	.19
4	.09	.12	.22	6.04	.58	.86	.90	.52	.53	.55	.29	.17
5	.09	.12	.21	.72	.58	8.07	.99	.48	.49	.55	.28	.17
6	5.09	5.12	5.21	7.05	6.56	8.01	8.66	6.44	6.42	5.53	5.28	5.15
7	.08	.11	.20	6.84	7.02	7.82	9.48	.38	.40	.53	.26	.14
8	.08	.10	.20	.70	.03	.94	.45	.34	.44	.51	.26	.13
9	.08	.10	.26	.69	6.83	8.03	10.26	.29	.33	.51	.25	.12
10	.07	.10	.36	.50	.72	.03	9.85	.26	.21	.49	.24	.12
11	5.07	5.09	5.48	6.27	6.72	7.90	9.61	6.24	6.13	5.48	5.23	5.12
12	.06	.09	.69	.08	.93	.81	.61	.17	.08	.47	.23	.12
13	.06	.11	.77	5.99	7.19	.65	.05	.16	.03	.46	.23	.11
14	.06	.13	.70	.85	.45	.52	.25	.15	.00	.46	.22	.13
15	.08	.14	.65	.76	.91	.35	.09	.15	5.98	.45	.22	.16
16	5.09	5.16	5.57	5.69	8.23	7.25	7.81	6.11	5.94	5.43	5.22	5.16
17	.09	.17	.53	.65	.89	.21	.72	.09	.88	.42	.22	.16
18	.08	.18	.49	.63	9.74	.17	.68	.09	.87	.42	.22	.15
19	.10	.19	.49	.67	10.08	.12	.86	.07	.84	.40	.21	.15
20	.16	.21	.49	.71	9.97	.10	.86	.06	.79	.40	.21	.15
21	5.20	5.25	5.58	5.72	9.54	7.03	7.98	6.04	5.77	5.39	5.21	5.14
22	.18	.27	.63	.69	.34	6.99	.93	.10	.76	.58	.24	.14
23	.17	.25	.62	.64	.85	.92	.78	.09	.72	.37	.24	.15
24	.18	.27	.58	.63	10.36	.78	.60	.07	.72	.36	.23	.14
25	.17	.25	.52	.60	.32	.73	.62	.05	.70	.35	.23	.13
26	5.15	5.26	5.52	5.60	9.96	6.74	7.43	6.05	5.69	5.34	5.22	5.12
27	.15	.41	.57	.69	.39	.82	.27	.06	.88	.53	.22	.10
28	.14	.56	.53	.80	8.96	.98	.09	.08	.66	.32	.21	.10
29	.13	.55	.52	.98	.56	7.12	.00	.09	.64	.32	.21	.19
30	.12	.36	.54	6.14	.28	.24	6.86	.20	.63	.31	.21	.07
31		.30		.26	.12		.78		.63	.30		.06
Mean	5.11	5.20	5.45	5.99	8.15	7.40	8.18	6.22	5.94	5.44	5.24	5.14
Max.	5.20	5.56	5.77	7.05	10.36	8.07	10.26	6.70	6.60	5.61	5.30	5.21
Min.	5.06	5.09	5.20	5.60	6.41	6.73	6.78	6.04	5.63	5.30	5.21	5.06

WATER YEAR 1960 : Max. 10.36 m. Min. 5.06 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55	57	77	134	270	629	522	333	274	126	80	68
2	55	56	75	140	285	587	566	317	310	124	80	67
3	55	56	71	161	308	582	616	304	302	121	80	65
4	54	57	70	197	306	616	626	295	295	116	79	63
5	54	57	68	338	306	670	649	285	287	116	77	63
6	54	57	68	413	302	655	833	276	272	113	77	61
7	53	56	67	365	407	605	1,071	264	268	113	75	60
8	53	55	67	333	409	636	1,062	256	276	110	75	59
9	53	55	75	331	363	660	1,319	246	254	110	73	57
10	52	55	88	289	338	660	1,188	240	230	107	72	57
11	52	54	105	242	338	626	1,111	236	214	105	71	57
12	51	54	138	204	386	603	1,111	222	204	104	71	57
13	51	56	151	188	446	561	942	220	194	102	71	56
14	51	59	140	164	509	527	718	218	190	102	70	59
15	52	60	132	150	629	484	675	218	186	101	70	62
16	54	62	119	138	712	460	603	210	179	98	70	62
17	54	63	113	132	897	450	579	206	169	97	70	61
18	53	65	107	129	1,153	441	569	206	167	97	70	61
19	55	66	107	135	1,262	429	616	203	162	94	68	61
20	62	68	107	142	1,226	425	616	201	154	94	68	61
21	67	73	121	143	1,089	409	647	197	151	93	68	60
22	65	76	129	138	1,029	400	634	197	151	93	68	60
23	64	73	127	130	1,188	384	595	208	150	91	72	60
24	65	75	121	129	1,352	351	548	206	145	90	72	61
25	64	95	111	124	1,339	340	553	199	140	87	71	60
26	61	118	111	124	1,223	342	504	199	138	86	70	57
27	61	116	119	138	1,044	361	465	201	137	84	70	55
28	60	88	113	156	917	397	423	204	134	83	68	55
29	59	80	111	186	805	430	402	206	130	83	68	55
30	57	76	114	216	726	458	370	206	129	81	68	55
31		76		240	683		351	228	129	80		51
Total	1,696	2,114	3,120	6,057	22,247	15,178	21,484	7,005	6,111	3,096	2,029	1,855
Mean	56.5	68.2	104	195	718	506	693	233	197	99.9	72.4	59.8
Max.	67	118	151	413	1,352	670	1,319	333	310	126	80	68
Min.	51	54	67	124	270	340	351	197	129	80	68	51
Runoff - mcm.	146.534	182.650	269.568	523.325	1,922.141	1,311.379	1,856.218	605.232	527.990	267.494	175.306	160.272

WATER YEAR 1960 : Max. 1,352 Min. 51 Mean 252 Annual Runoff 7,948.109 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	12.00	10.36	1,352				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tha Pha, Ratchaburi (K.1)

Location: Lat 13° - 50' - 25" N, Long 99° - 52' - 09" E, on left bank at the mouth of Tha Pha Canal and 50 meters upstream from Tha Pha Regulator, Amphoe Ban Pong, Ratchaburi.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank of Tha Pha Canal at the abutment of The Pha Regulator.

Elevation: +12.500 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: 1914 - 27, 1933 - 44, 1948 to date.

Rating Operation:

Period of Rating: 1963, 1965 - 66

Rated by Float: -

Rated by Current Meter: 1963, 1965 - 66

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements made for period 1965. Flow diverted by Tha Pha Regulator, which is in Tha Pha Canal 50 meters from gage site and upstream state diversions of about 3,200 hectares are made. No adjustment made for virgin flow.

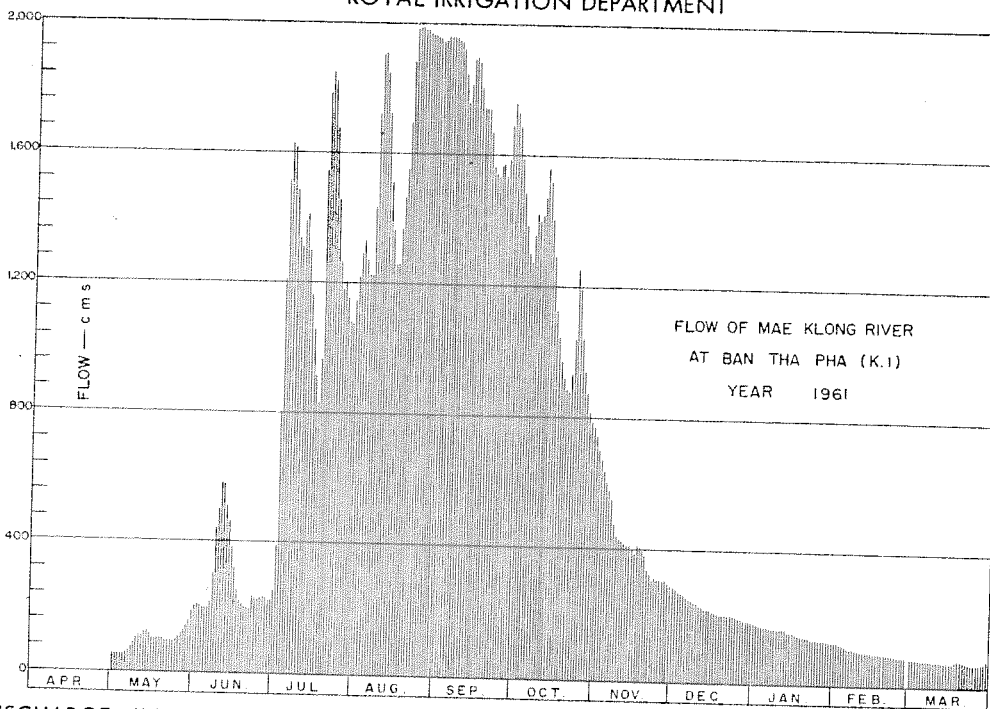
Remarks: No gage height record for Apr.1 - 30, 1961.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.08	5.07	6.07	6.33	9.93	11.97	11.31	8.34	6.49	5.96	5.62	5.30
2	.08	.06	.10	.95	10.17	.98	.03	.20	.47	.93	.62	.30
3	.07	.06	.08	8.42	.30	12.01	10.74	.09	.43	.91	.58	.30
4	.07	.05	.05	9.90	.11	.01	.46	7.93	.40	.89	.57	.29
5	.08	.08	.05	10.82	9.97	.01	.20	.80	.38	.88	.55	.29
6	5.08	5.10	6.05	11.14	9.96	12.01	10.09	7.67	6.34	5.88	5.52	5.28
7	.07	.15	.11	.10	10.46	11.99	.35	.61	.31	.87	.50	.27
8	.07	.24	.56	10.73	11.37	.97	.56	.32	.30	.87	.49	.26
9	.08	.36	7.18	.32	.86	.92	.48	.16	.27	.86	.48	.25
10	.08	.47	.42	.23	.88	.71	.54	.13	.26	.86	.47	.24
11	5.07	5.50	7.74	10.47	11.72	11.48	10.65	7.11	6.22	5.85	5.45	5.24
12	.07	.51	.72	.53	.39	.62	.95	.07	.20	.84	.44	.23
13	.06	.57	.47	.20	10.81	.83	.85	.05	.18	.84	.43	.23
14	.07	.61	.28	9.80	.39	.85	.52	.04	.16	.82	.42	.22
15	.07	.53	6.98	.44	.07	.81	.05	.00	.15	.80	.42	.21
16	5.07	5.46	6.66	9.02	10.08	11.61	9.66	6.93	6.13	5.78	5.41	5.21
17	.08	.44	.33	8.65	.39	.44	.39	7.06	.12	.75	.41	.22
18	.08	.45	.18	9.08	.66	.44	.14	.03	.10	.74	.40	.26
19	.09	.46	.11	10.77	.91	.44	8.98	6.98	.08	.72	.40	.29
20	.12	.44	.07	11.54	11.22	.23	.85	.92	.08	.70	.39	.28
21	5.10	5.41	6.05	11.72	11.82	10.96	8.82	6.72	6.08	5.69	5.38	5.26
22	.10	.40	.03	.65	12.06	.90	.99	.68	.08	.68	.37	.23
23	.09	.39	.23	.26	.08	.86	9.20	.57	.07	.67	.35	.19
24	.09	.40	.20	10.66	.09	.96	10.05	.62	.06	.67	.35	.18
25	.09	.44	.18	.09	.07	.98	9.88	.60	.05	.66	.33	.18
26	5.10	5.49	6.21	9.82	12.06	10.86	9.39	6.60	6.04	5.66	5.33	5.18
27	.12	.53	.24	.91	.04	11.00	.05	.57	.01	.65	.32	.18
28	.12	.61	.22	.74	.03	.31	8.81	.58	5.99	.65	.31	.20
29	.12	.72	.18	.51	.02	.49	.61	.55	.99	.64	.23	.23
30	.09	.81	.19	.50	.01	.46	.51	.51	.98	.63	.26	.26
31		.98	.72	.00	.00		.47		.97	.62		.27
Mean	5.08	5.41	6.50	9.97	11.13	11.54	9.82	7.14	6.17	5.77	5.44	5.24
Max.	5.12	5.98	7.74	11.72	12.09	12.01	11.31	8.34	6.49	5.96	5.62	5.30
Min.	5.06	5.05	6.03	6.33	9.93	10.86	8.47	6.51	5.97	5.62	5.31	5.18

WATER YEAR 1961 : Max. 12.09 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53	52	203	254	1,217	1,944	1,693	743	287	183	127	80
2	53	51	208	390	1,290	1,947	1,591	704	283	177	127	80
3	52	51	204	766	1,332	1,959	1,486	675	274	174	121	80
4	52	49	199	1,204	1,271	1,959	1,386	656	268	170	119	79
5	53	53	199	1,515	1,226	1,959	1,300	600	264	169	116	79
6	53	55	199	1,630	1,223	1,959	1,265	566	256	169	111	77
7	52	61	210	1,616	1,386	1,951	1,348	551	250	167	108	76
8	52	72	302	1,485	1,716	1,944	1,422	477	248	167	107	75
9	53	88	443	1,339	1,902	1,925	1,393	439	242	166	105	75
10	53	104	502	1,310	1,909	1,845	1,414	432	240	166	104	72
11	52	108	584	1,389	1,849	1,757	1,454	427	232	164	101	72
12	52	110	579	1,411	1,723	1,811	1,562	418	228	162	100	71
13	51	119	514	1,300	1,512	1,890	1,526	415	224	162	98	71
14	52	126	467	1,172	1,362	1,898	1,407	411	220	159	97	70
15	52	113	397	1,059	1,258	1,883	1,252	402	218	156	97	68
16	52	102	324	934	1,262	1,807	1,127	388	214	153	95	68
17	53	100	254	830	1,362	1,742	1,044	416	212	148	95	70
18	53	101	224	951	1,458	1,742	969	409	208	146	94	75
19	54	102	210	1,497	1,548	1,742	922	397	204	143	94	79
20	57	100	203	1,780	1,659	1,663	886	384	204	140	93	77
21	55	95	199	1,849	1,883	1,566	878	338	204	138	91	75
22	55	94	195	1,822	1,978	1,544	925	328	204	137	90	71
23	54	93	234	1,674	1,985	1,530	987	304	203	135	87	66
24	54	94	228	1,458	1,989	1,566	1,252	315	201	135	87	65
25	54	100	224	1,265	1,982	1,573	1,198	310	199	134	84	65
26	55	107	230	1,178	1,978	1,530	1,044	310	197	134	84	65
27	57	113	236	1,207	1,970	1,580	942	304	192	132	83	65
28	57	126	232	1,153	1,966	1,693	875	306	188	132	81	67
29	57	143	224	1,080	1,963	1,761	819	299	188	130	81	71
30	54	158	226	1,077	1,959	1,750	791	291	186	129	81	75
31		186		1,146	1,955		780		185	127		76
Total	1,606	3,026	8,653	58,739	50,697	53,420	56,938	12,993	6,923	4,704	2,796	2,255
Mean	53.5	97.6	288	1,250	1,635	1,781	1,191	433	223	152	99.8	72.7
Max.	57	186	584	1,849	1,989	1,959	1,693	743	287	183	127	80
Min.	51	49	195	254	1,214	1,530	780	291	185	127	81	65
Runoff - mcm.	158.758	261.446	747.619	3,347.050	4,412.707	4,615.488	3,191.443	1,122.595	598.147	406.426	241.574	194.832

WATER YEAR 1961 : Max. 1,989 Min. 51 Mean 611 Annual Runoff 19,278.086 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	06.00	12.09	1,989				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tha Pha, Ratchaburi (K.1)

Location: Lat 13° - 50' - 25" N, Long 99° - 52' - 09" E, on left bank at the mouth of Tha Pha Canal and 50 meters upstream from Tha Pha Regulator, Amphoe Ban Pong, Ratchaburi.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank of Tha Pha Canal at the abutment of Tha Pha Regulator.

Elevation: +12.500 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: 1914 - 27, 1933 - 44, 1948 to date.

Rating Operation:

Period of Rating: 1963, 1965 - 66

Rated by Float: -

Rated by Current Meter: 1963, 1965 - 66

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

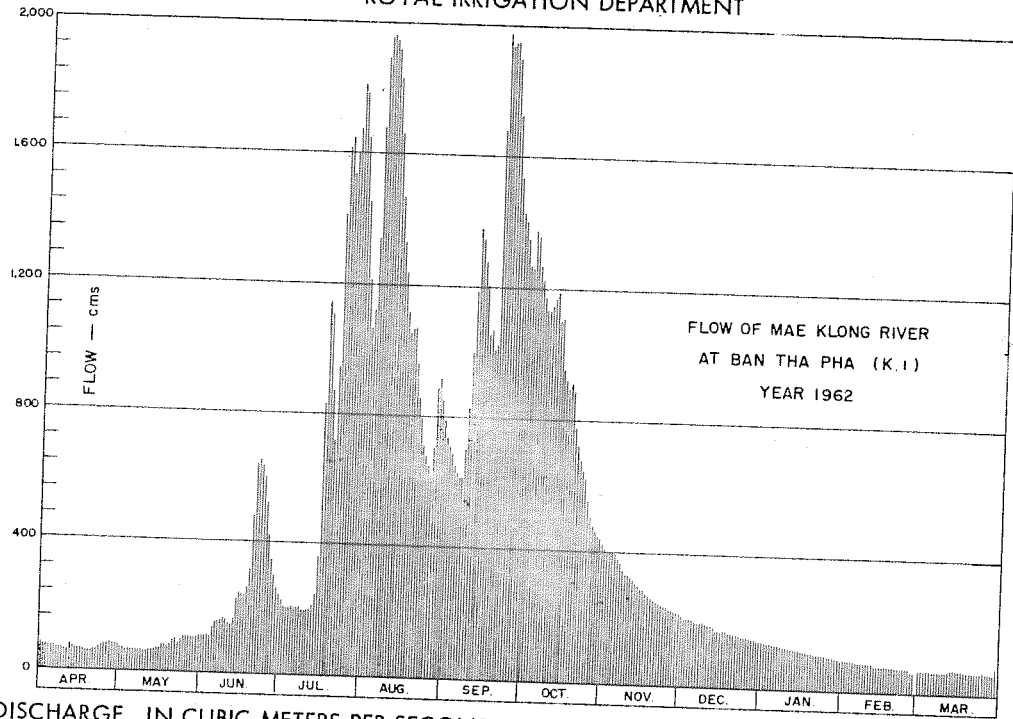
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements made for period 1965. Flow diverted by Tha Pha Regulator, which is in Tha Pha Canal 50 meters from gage site and upstream state diversions of about 3,200 hectares are made. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.25	5.19	5.52	6.19	9.93	8.32	10.10	7.05	6.14	5.71	5.40	5.20
2	.23	.18	.53	.09	.48	.23	.07	.01	.10	.70	.39	.19
3	.22	.17	.53	.06	.68	.15	.42	.00	.10	.68	.38	.19
4	.21	.17	.52	.07	10.33	7.99	.38	6.99	.09	.68	.37	.18
5	.20	.17	.69	.10	11.27	.90	.11	.99	.07	.67	.37	.18
6	5.18	5.15	5.79	6.08	11.84	7.85	9.97	6.91	6.05	5.66	5.36	5.17
7	.17	.15	.80	.08	12.00	.86	.81	.87	.03	.65	.36	.17
8	.14	.14	.83	.10	.02	8.20	.68	.76	.02	.64	.35	.17
9	.13	.14	.87	.05	11.98	.64	.68	.77	.02	.62	.35	.17
10	.12	.12	.84	.02	.90	9.08	.72	.71	.01	.62	.35	.16
11	5.10	5.12	5.77	6.04	11.67	9.84	9.80	6.66	6.00	5.60	5.35	5.17
12	.25	.15	.76	.06	.23	10.44	.85	.63	5.99	.58	.32	.21
13	.19	.17	.87	.13	10.70	.35	.57	.59	.95	.58	.29	.22
14	.16	.18	6.19	.28	.29	.12	.28	.55	.91	.56	.28	.22
15	.15	.19	.30	.83	.00	9.90	.09	.52	.90	.55	.28	.21
16	5.15	5.23	6.27	8.64	9.63	9.42	8.97	6.50	5.90	5.55	5.28	5.21
17	.13	.30	.26	9.71	.43	.46	.88	.44	.90	.54	.27	.18
18	.11	.29	.37	.60	.48	.27	.93	.41	.89	.53	.27	.16
19	.10	.26	.65	8.80	.48	.33	.76	.39	.87	.52	.26	.15
20	.11	.31	7.34	.26	.11	11.27	.48	.36	.86	.52	.26	.15
21	5.13	5.42	7.96	9.07	8.77	12.04	8.27	6.33	5.84	5.50	5.25	5.16
22	.16	.44	8.00	10.53	.45	11.95	.13	.30	.83	.49	.25	.15
23	.22	.35	7.94	11.10	.23	.98	.00	.29	.81	.48	.24	.15
24	.25	.43	.80	.19	.09	.99	7.90	.27	.80	.47	.24	.16
25	.27	.48	.50	10.89	7.99	.86	.63	.25	.80	.47	.22	.20
26	5.29	5.49	7.10	10.94	7.89	11.40	7.46	6.23	5.78	5.46	5.22	5.15
27	.31	.48	6.77	11.26	8.23	10.87	.35	.21	.77	.45	.21	.14
28	.29	.47	.54	.62	.85	.58	.28	.19	.76	.43	.21	.13
29	.27	.47	.37	.55	.96	.52	.22	.18	.74	.42	.21	.12
30	.25	.48	.27	.19	.74	.35	.17	.16	.73	.41	.21	.27
31		.52		10.51	.54		.10		.72	.41		.19
Mean	5.19	5.28	6.40	8.29	9.81	9.84	8.87	6.55	5.91	5.55	5.30	5.18
Max.	5.31	5.52	8.00	11.62	12.02	12.04	10.42	7.05	6.14	5.71	5.40	5.27
Min.	5.10	5.12	5.52	6.02	7.89	7.85	7.10	6.16	5.72	5.41	5.21	5.12

WATER YEAR 1962 : Max. 12.04 m. Min. 5.10 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	73	66	111	226	1,214	738	1,268	413	216	142	94	67
2	71	65	113	206	1,071	712	1,258	404	208	140	93	66
3	70	63	113	201	1,131	691	1,372	402	208	137	91	66
4	68	63	111	203	1,342	649	1,358	400	206	137	90	65
5	67	63	138	208	1,678	626	1,271	400	203	135	90	65
6	65	61	154	204	1,894	613	1,226	381	199	134	88	63
7	63	61	156	204	1,955	616	1,175	372	195	132	88	63
8	60	60	161	208	1,963	704	1,131	347	194	130	87	63
9	59	60	167	199	1,947	830	1,131	335	194	127	87	63
10	57	57	162	194	1,917	951	1,146	335	192	127	87	62
11	55	57	151	197	1,830	1,185	1,172	324	190	124	87	63
12	73	61	150	201	1,663	1,379	1,188	319	188	121	85	68
13	66	63	167	214	1,472	1,348	1,099	308	181	121	79	70
14	62	65	226	244	1,329	1,274	1,011	299	174	118	77	70
15	61	66	248	363	1,236	1,204	954	293	172	116	77	68
16	61	71	242	827	1,118	1,053	920	289	172	116	77	68
17	59	80	240	1,143	1,056	1,065	894	276	172	114	76	65
18	56	79	262	1,108	1,071	1,008	908	270	170	113	76	62
19	55	75	321	872	1,071	1,026	861	266	167	111	75	61
20	56	81	482	721	960	1,678	782	260	166	111	75	61
21	59	97	642	948	864	1,970	724	254	162	108	73	62
22	62	100	652	1,411	774	1,936	686	248	161	107	73	61
23	70	87	656	1,616	712	1,947	652	246	158	105	72	61
24	73	98	600	1,648	675	1,951	626	242	156	104	72	62
25	76	105	522	1,540	649	1,902	556	238	156	104	70	67
26	79	107	425	1,558	623	1,727	512	234	153	102	70	61
27	81	105	349	1,674	712	1,533	484	230	151	101	63	60
28	79	104	297	1,811	886	1,429	467	226	150	98	63	59
29	76	104	262	1,784	917	1,407	453	224	146	97	63	57
30	73	105	242	1,648	855	1,348	441	220	145	95	63	57
31		111		1,404	799		425		143	95		66
Total	1,985	2,440	8,502	24,985	37,384	36,500	28,151	9,055	5,448	3,622	2,233	1,991
Mean	66.1	78.7	283	806	1,206	1,217	908	302	176	117	79.7	64.2
Max.	81	111	652	1,811	1,963	1,970	1,372	413	216	142	94	76
Min.	55	57	111	194	623	613	425	220	143	95	63	57
Runoff - mcm.	171.504	210.816	734.573	2,158.704	3,229.978	3,153.600	2,432.246	782.352	470.707	312.941	192.931	172.022

WATER YEAR 1962 : Max. 1,970 Min. 55 Mean 445 Annual Runoff 14,022.374mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	06.00	12.04	1,970				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
MAE KLONG RIVER BASIN

Khwaee Yai at Kaeng Riang, Kanchanaburi (K.6)

Location: Lat 14° - 25' - 43" N, Long 99° - 07' - 04" E, on left bank 200 meters downstream from Lan Thom Cave and about 9 kilometers upstream from Erawan Fall, Thambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,789 sq.km. referred to AMS Map 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: +54.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: At the rain gage in front of the camp of station K.6

Elevation: +72.819 m.(M.S.L.)

Gage Reading Frequency: 16 - time daily readings at 03.00, 16.00 - 18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 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: Rather unstable, periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

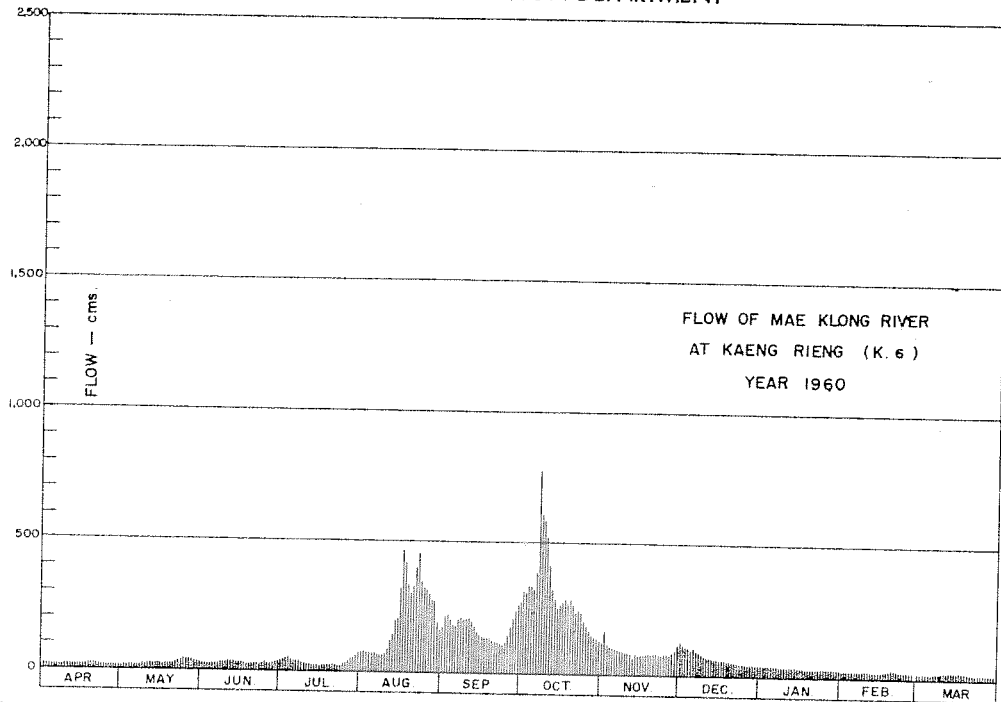
General Description: Records good. Stage - discharge relationship used by discharge measurements made during 1960.
No state diversions are made above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55.89	55.86	56.13	56.67	57.02	58.14	58.73	57.30	57.34	56.35	56.15	56.02
2	.89	.87	.08	.81	.00	.22	59.02	.23	.22	.34	.15	.02
3	.89	.89	.05	.91	56.94	.25	58.98	.19	.16	.34	.15	.01
4	.89	.91	.03	.95	.92	.11	59.15	.19	.11	.33	.14	.00
5	.90	.93	.06	.96	.94	57.92	.13	.08	.03	.32	.14	.00
6	55.88	55.89	56.11	56.67	57.02	57.93	59.05	57.03	57.11	56.32	56.14	55.99
7	.89	.89	.14	.72	56.67	58.12	.53	56.99	56.98	.32	.14	56.01
8	.90	.91	.22	.65	.72	.17	62.01	.95	.86	.31	.13	.05
9	.93	56.00	.24	.53	.76	.08	61.01	.91	.78	.30	.12	.05
10	.93	55.92	.26	.42	.80	.16	60.94	.88	.73	.27	.12	.05
11	55.92	56.10	56.33	56.35	56.98	58.16	60.49	56.84	56.69	56.29	56.11	56.06
12	.91	.06	.27	.29	57.47	.07	59.76	.83	.66	.29	.10	.10
13	.90	.06	.27	.26	.77	57.90	.08	.80	.63	.28	.09	.11
14	.89	.10	.23	.22	58.11	.67	58.79	.80	.60	.26	.08	.10
15	.90	.07	.21	.20	.16	.56	.55	.77	.57	.25	.09	.06
16	55.94	56.04	56.17	56.20	59.30	57.51	58.65	56.76	56.55	56.24	56.10	56.05
17	.94	55.99	.16	.35	60.20	.48	.69	.76	.53	.23	.14	.04
18	56.03	56.11	.15	.38	59.85	.48	.79	.79	.52	.23	.13	.05
19	.03	.08	.24	.41	.41	.44	.66	.80	.51	.22	.17	.05
20	.02	.15	.27	.37	.14	.34	.76	.78	.49	.21	.21	.04
21	55.99	56.14	56.23	56.31	59.53	57.31	58.63	56.62	56.47	56.20	56.18	56.02
22	.96	.21	.20	.24	60.04	.25	.35	.79	.45	.20	.16	55.99
23	.95	.27	.18	.21	.40	.19	.49	.74	.43	.20	.13	.97
24	.93	.29	.26	.22	59.80	.18	.38	.75	.42	.20	.11	.96
25	.91	.35	.41	.37	.46	.29	.08	.75	.41	.20	.09	.95
26	55.89	56.37	56.30	56.47	59.14	57.61	57.90	56.80	56.40	56.20	56.07	55.94
27	.88	.35	.26	.57	58.89	.95	.73	.75	.40	.19	.06	.93
28	.87	.31	.34	.71	.58	58.18	.62	.88	.39	.18	.05	.93
29	.87	.26	.52	.74	.56	.43	.53	.93	.38	.17	.05	.93
29	.86	.20	.57	.86	.28	.63	.46	57.23	.37	.16	.05	.93
30												
31		.18		.95	.11		.37		.35	.16		.95
Mean	55.92	56.09	56.23	56.52	58.26	57.72	58.88	56.90	56.66	56.25	56.12	56.01
Max.	56.03	56.37	56.57	56.96	60.40	58.63	62.01	57.30	57.34	56.35	56.21	56.11
Min.	55.86	55.86	56.03	56.20	56.67	57.18	57.37	56.74	56.35	56.16	56.05	55.93

WATER YEAR 1960 : Max. 62.01 m. Min. 55.86 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	16	15	29	41	77	178	280	122	126	44	29	20
2	16	16	28	46	80	217	318	166	115	43	29	20
3	16	16	27	51	75	221	312	112	110	43	29	20
4	16	17	27	53	75	204	335	107	106	42	28	19
5	17	18	28	48	72	183	332	103	99	42	28	19
6	16	16	29	41	78	184	322	99	106	42	28	19
7	16	16	30	43	72	205	387	96	95	42	28	20
8	17	17	33	40	65	211	779	93	86	41	27	22
9	18	22	33	35	67	201	611	90	79	40	26	22
10	18	18	34	31	71	210	599	87	75	38	26	22
11	18	27	37	29	90	210	527	84	72	39	26	23
12	17	25	35	27	123	200	419	83	70	39	25	25
13	17	25	35	26	150	181	325	61	57	38	24	26
14	16	27	33	25	199	158	288	81	55	37	24	25
15	17	25	32	24	207	147	257	79	64	36	24	23
16	19	24	31	24	321	142	269	78	62	35	25	22
17	19	21	28	29	467	139	275	78	61	34	28	21
18	23	27	28	29	422	139	288	80	60	34	27	22
19	23	26	30	30	338	135	271	81	58	34	30	22
20	23	29	30	29	312	126	284	79	57	33	33	21
21	21	29	29	31	333	123	267	83	55	32	31	20
22	20	33	29	27	404	117	233	80	53	32	29	19
23	19	37	28	26	460	112	250	76	51	32	27	18
24	18	38	30	26	359	111	237	77	50	32	26	17
25	17	42	33	34	324	121	201	77	49	32	24	17
26	16	44	31	39	319	152	181	81	48	32	23	17
27	16	42	30	44	300	186	164	77	48	31	23	16
28	16	40	32	54	276	213	153	87	47	31	22	16
29	16	36	35	56	273	243	144	91	46	30	29	16
30	15	32	36	64	191	267	137	116	46	29	29	16
31		31		71	161		127		44	29		17
Total	532	831	930	1,173	6,761	5,236	9,573	2,674	2,170	1,118	749	622
Mean	17.7	26.8	31.0	37.8	218	174	309	89.1	70.0	36.1	26.8	20.1
Max.	23	44	37	71	467	267	779	122	126	44	33	26
Min.	15	15	27	24	65	111	127	76	44	29	22	16
Runoff - mcm.	45.965	71.798	80.352	101.347	584.150	452.390	827.107	231.034	187.488	96.595	64.714	53.741

WATER YEAR 1960 : Max. 779 Min. 15 Mean 88.7 Annual Runoff 2,796.682 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	10.00	62.24	816				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KLONG RIVER BASIN

Khwaie Yai at Kaeng Riang, Kanchanaburi (K.6)

Location: Lat $14^{\circ} - 25' - 43''$ N, Long $99^{\circ} - 07' - 04''$ E, on left bank 200 meters downstream from Lan Thom Cave and about 9 kilometers upstream from Erawan Fall, Thambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,789 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +54.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: At the rain gage in front of the camp of station K.6

Elevation: +72.819 m.(M.S.L.)

Gage Reading Frequency: 16 - time daily readings at 03.00, 16.00 - 18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 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: Rather unstable, shifting adjustment included for flow computation.

Overbank Flow Conditions: No overbank flow.

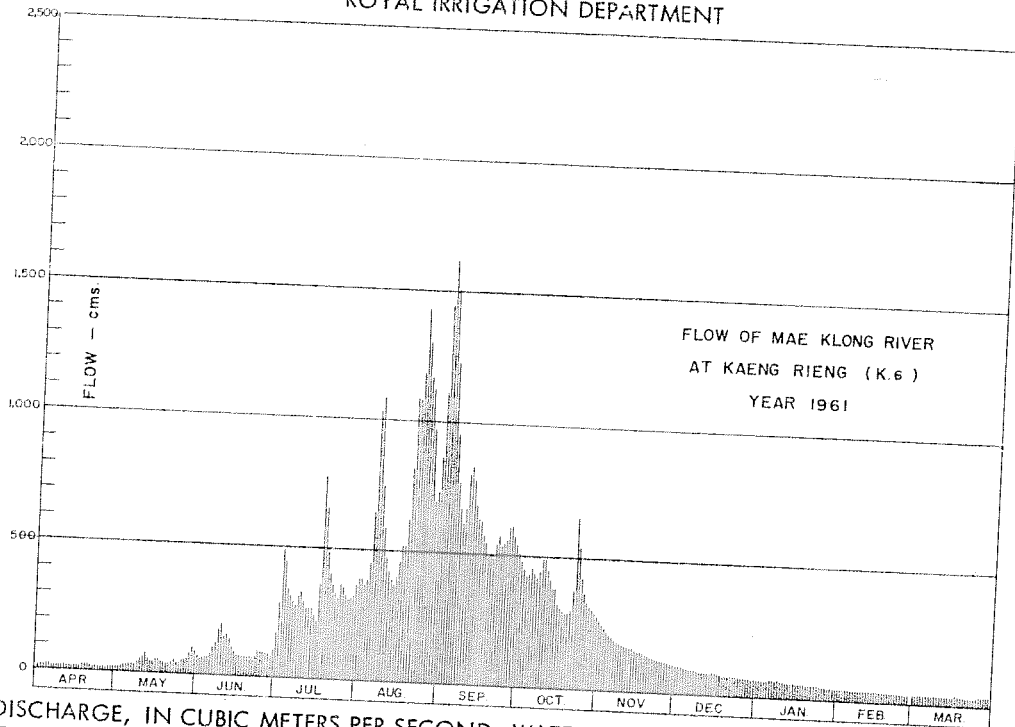
General Description: Records good. Stage-discharge relationship used by discharge measurements made during 1961. No state - diversions are made above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55.97	55.90	56.68	57.80	59.74	63.00	60.40	58.73	57.08	56.57	56.30	56.12
2	.97	.91	.48	58.93	.73	.82	.34	.60	.06	.56	.29	.11
3	.99	.97	.53	60.37	.57	64.22	.15	.46	.03	.55	.29	.11
4	56.07	56.05	.61	.10	.71	63.96	59.99	.34	.00	.54	.28	.10
5	55.98	.07	.63	59.37	60.15	.29	60.03	.24	56.97	.55	.27	.10
6	55.97	56.05	56.81	59.15	61.23	62.48	60.18	58.14	56.95	56.62	56.26	56.10
7	.95	.09	57.06	58.95	62.72	61.82	.06	.06	.93	.59	.26	.10
8	.93	.06	.23	.85	.91	61.36	59.92	57.98	.90	.55	.25	.09
9	.92	.25	.86	59.18	61.71	.09	60.12	.91	.88	.55	.25	.08
10	.92	.39	58.07	.31	60.91	.39	.39	.85	.86	.53	.24	.08
11	55.94	56.48	57.52	59.01	60.51	61.95	60.38	57.82	56.85	56.51	56.24	56.07
12	.94	.65	.67	58.75	59.99	62.07	.12	.78	.83	.48	.23	.07
13	.91	.40	.44	.79	.74	61.87	59.87	.75	.82	.47	.23	.08
14	.91	.29	.10	.74	.61	.44	.68	.69	.81	.46	.22	.07
15	.94	.28	56.68	.51	.82	.16	.67	.63	.79	.45	.22	.08
16	55.94	56.40	56.73	58.34	60.21	61.12	59.22	57.59	56.77	56.44	56.21	56.10
17	.94	.40	.69	59.47	.56	60.82	.11	.58	.76	.43	.20	.15
18	56.04	.29	.72	61.80	.57	.66	.02	.52	.74	.41	.20	.11
19	55.98	.21	.68	.24	61.11	.43	58.94	.46	.73	.41	.18	.07
20	.96	.15	.67	60.37	62.01	.41	.98	.42	.72	.40	.17	.06
21	55.91	56.17	56.69	59.81	62.92	60.40	59.07	57.38	56.71	56.39	56.17	56.05
22	.90	.21	.68	.55	.90	.69	.59	.34	.70	.38	.17	.04
23	.88	.24	.74	.26	63.18	.85	61.26	.30	.68	.37	.16	.03
24	.86	.22	.97	.15	.78	.61	60.66	.28	.68	.35	.15	.03
25	.84	.27	.90	.58	.49	.71	59.94	.25	.67	.34	.14	.04
26	55.84	56.40	56.94	59.47	63.15	60.79	59.58	57.22	56.66	56.33	56.14	56.10
27	.82	.46	.91	.20	.04	61.03	.29	.19	.65	.33	.14	.10
28	.81	.49	.88	.12	62.56	.06	.15	.16	.63	.32	.13	.08
29	.80	.78	.83	.16	61.48	60.86	.11	.13	.62	.31	.09	.09
30	.83	57.04	57.10	.23	.65	.68	.02	.10	.60	.31	.08	.08
31		56.88		.56	62.18		58.85		.58	.30		.11
Mean	55.92	56.30	56.94	59.33	61.38	61.53	59.75	57.70	56.80	56.45	56.21	56.08
Max.	56.07	57.04	58.07	61.80	63.78	64.22	61.26	58.73	57.08	56.62	56.30	56.15
Min.	55.80	55.90	56.48	57.80	59.57	60.40	58.85	57.10	56.58	56.30	56.13	56.03

WATER YEAR 1961 : Max. 64.22 m. Min. 55.80 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	16	20	74	173	392	1,116	510	266	107	66	47	34
2	16	21	60	289	390	1,445	484	252	105	65	46	34
3	17	24	63	499	368	1,619	453	237	102	65	46	34
4	22	30	69	446	387	1,505	429	224	100	64	46	34
5	17	31	70	340	453	1,228	435	214	98	65	46	33
6	16	30	85	314	649	951	457	204	96	70	44	33
7	15	32	105	291	1,033	773	439	196	94	67	44	33
8	15	30	121	280	1,088	672	418	188	92	65	44	33
9	14	44	177	318	749	519	448	182	90	65	44	33
10	14	52	197	333	586	678	492	177	89	63	43	32
11	16	60	147	297	479	804	491	174	88	62	43	32
12	15	72	160	269	429	834	448	170	86	60	43	31
13	15	54	146	273	392	785	411	168	86	59	43	31
14	15	46	109	267	373	688	383	162	85	58	41	31
15	16	46	90	242	403	632	382	157	85	58	41	31
16	17	54	78	224	462	625	322	153	82	57	41	31
17	17	54	75	365	523	570	309	152	81	56	40	33
18	23	46	78	771	525	541	309	152	81	56	40	33
19	22	41	74	551	623	499	298	147	79	55	40	37
20	20	37	74	489	825	496	294	138	78	55	39	31
21	18	38	75	402	1,089	494	304	134	77	53	38	30
22	18	41	74	365	1,082	546	377	131	76	52	37	29
23	18	43	79	327	1,183	575	652	127	74	52	37	28
24	17	41	98	314	1,426	532	542	125	74	51	37	28
25	17	45	92	369	1,306	550	421	123	74	50	36	28
26	17	54	95	354	1,172	564	369	120	73	49	36	29
27	16	58	93	320	1,131	608	331	117	72	49	36	33
28	17	60	90	310	972	613	314	114	70	48	36	33
29	17	78	86	315	697	577	309	112	70	48	35	32
30	19	104	109	324	734	544	298	109	68	48	35	32
31	90			366	855		280		67	47		32
Total	512	1,476	2,937	10,897	22,786	22,683	12,389	4,914	2,594	1,776	1,150	991
Mean	17.1	47.6	97.9	352	735	756	400	164	83.7	57.3	41.1	32.0
Max.	23	104	197	771	1,426	1,619	652	266	107	70	47	37
Min.	14	20	50	173	368	494	280	109	67	47	35	28
Runoff	44.237	127.526	253.757	941.501	1,968.710	1,959.811	1,070.410	424.570	224.122	153.449	99.260	85.622

WATER YEAR 1961 : Max. 1,619 Min. 14 Mean 233 Annual Runoff 7,353.072 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 3	18.00	64.25	1,628				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
MAE KLONG RIVER BASIN

Khwaee Yai at Kaeng Riang, Kanchanaburi (K.6)

Location: Lat $14^{\circ} - 25' - 43''$ N, Long $99^{\circ} - 07' - 04''$ E, on left bank 200 meters downstream from Lan Thom Cave and about 9 kilometers upstream from Erawan Fall, Thambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,789 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +54.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: At the rain gage in front of the camp of station K.6

Elevation: +72.819 m.(M.S.L.)

Gage Reading Frequency: 16 - time daily readings at 03.00, 16.00 - 18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 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: Rather unstable, shifting adjustment included for flow computation.

Overbank Flow Conditions: No overbank flow.

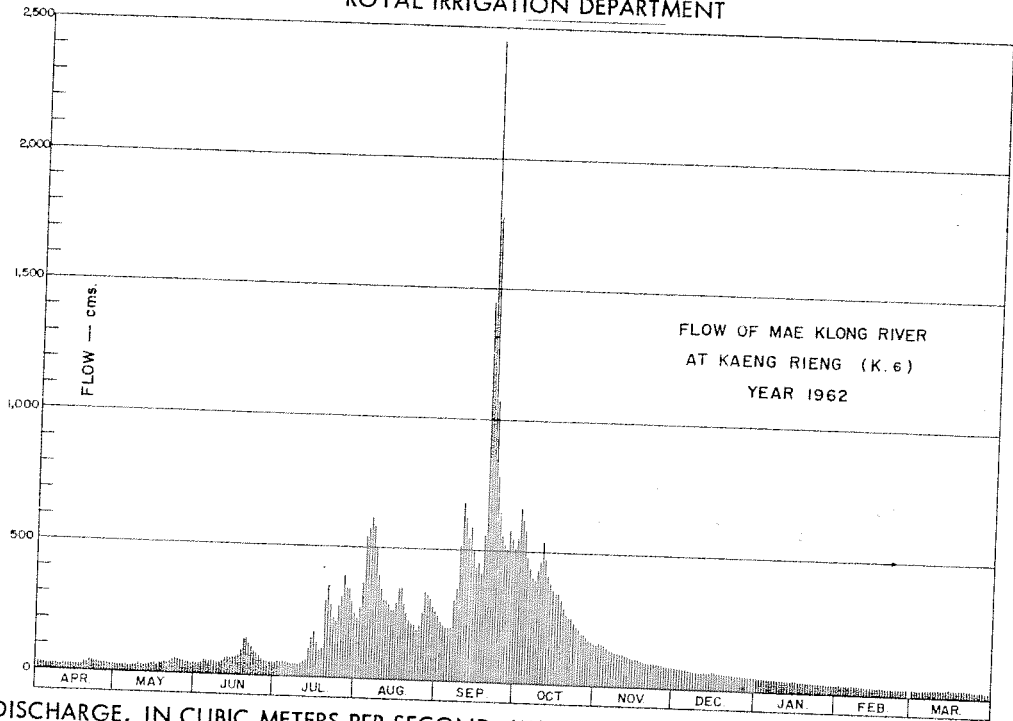
General Description: Records good. Stage-discharge relationship used by discharge measurements made during 1962.
No state diversions are made above gage site.

* GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.08	56.04	56.23	56.34	58.40	58.59	60.70	57.73	56.84	56.51	56.31	56.20
2	.08	.02	.23	.41	.74	.39	61.21	.83	.83	.51	.31	.19
3	.08	.01	.35	.43	59.48	.28	.05	.23	.80	.50	.31	.19
4	.05	.00	.45	.42	60.63	.19	60.71	.65	.79	.49	.30	.18
5	.02	.00	.40	.39	.81	.08	.32	.60	.78	.49	.30	.18
6	56.01	55.99	56.36	56.39	60.90	58.09	60.05	57.56	56.76	56.48	56.29	56.18
7	.00	.98	.39	.37	.90	59.14	59.86	.49	.72	.46	.28	.18
8	55.99	56.01	.39	.36	.44	.50	.84	.42	.72	.45	.27	.22
9	.99	.12	.36	.38	59.85	60.36	60.01	.38	.71	.45	.27	.22
10	56.01	.25	.36	.38	.40	61.17	.32	.33	.70	.44	.27	.23
11	56.04	56.20	56.38	56.43	59.04	61.06	60.59	57.30	56.69	56.43	56.26	56.27
12	.01	.10	.51	.50	58.97	60.64	.22	.27	.69	.43	.25	.26
13	.02	.21	.54	.57	.89	.85	59.84	.24	.69	.42	.25	.23
14	.01	.23	.48	57.17	.81	.33	.65	.21	.68	.41	.24	.25
15	.00	.23	.51	.73	.73	59.99	.52	.17	.70	.41	.23	.22
16	55.99	56.31	56.60	57.88	58.98	60.10	59.49	57.14	56.68	56.40	56.25	56.18
17	.98	.10	.63	.45	59.45	59.88	.48	.12	.66	.39	.23	.17
18	.99	.14	.87	.14	.46	60.66	.30	.09	.64	.39	.23	.16
19	56.16	.16	57.46	.26	58.93	64.50	.50	.06	.62	.38	.23	.17
20	.10	.23	.49	59.13	.59	67.45	58.87	.04	.61	.38	.23	.21
21	56.29	56.18	57.28	59.48	58.45	65.67	58.76	57.01	56.60	56.37	56.23	56.20
22	.26	.36	.14	58.84	.31	63.12	.66	.00	.59	.37	.23	.18
23	.21	.43	.00	.44	.17	61.97	.54	.00	.58	.36	.22	.19
24	.21	.45	56.77	.32	.15	.32	.40	56.96	.57	.36	.22	.15
25	.15	.41	.64	.80	.22	60.93	.27	.95	.56	.35	.22	.14
26	56.14	56.38	56.52	59.17	58.76	60.54	58.16	56.92	56.55	57.34	56.22	56.13
27	.13	.31	.45	.67	59.28	.49	.08	.91	.55	.33	.21	.12
28	.10	.30	.42	.43	.22	.87	57.98	.90	.54	.32	.20	.11
29	.08	.28	.39	.42	.05	.73	.89	.88	.53	.31		.11
30	.08	.25	.39	.07	.05	.73	.89	.86	.52	.31		.10
31		.25		58.59	.65		.76		.51	.31		.10
Mean	56.07	56.20	56.60	57.62	59.18	60.71	59.41	57.23	56.66	56.40	56.25	56.18
Max.	56.29	56.45	57.49	59.67	60.90	67.45	61.21	57.83	56.84	56.51	56.31	56.27
Min.	55.98	55.98	56.23	56.34	58.15	58.08	57.76	56.86	56.51	56.31	56.20	56.10

WATER YEAR 1962 : Max. 67.45 m. Min. 55.98 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	30	26	40	51	229	248	557	157	78	48	32	23
2	29	25	40	53	273	227	667	167	78	48	32	22
3	28	25	47	53	372	209	627	157	76	46	32	21
4	27	25	53	54	543	205	581	157	74	45	31	21
5	25	25	50	52	575	201	482	143	73	46	31	21
6	25	24	47	52	615	204	440	136	69	45	30	21
7	24	23	50	49	587	308	404	134	68	44	30	20
8	24	25	50	48	505	358	398	125	66	43	30	20
9	24	30	49	49	400	516	432	125	64	44	29	21
10	25	34	49	49	345	685	470	124	62	44	29	22
11	27	33	51	55	302	631	544	123	61	43	28	24
12	25	28	61	58	301	553	479	117	61	42	28	23
13	25	30	64	69	288	591	413	113	60	41	28	23
14	24	34	60	110	267	507	382	109	60	40	27	26
15	23	33	63	152	269	437	364	108	67	41	26	28
16	22	34	71	174	299	451	348	105	64	41	26	25
17	22	28	74	133	349	418	349	104	61	39	26	24
18	23	36	74	104	352	565	323	99	60	38	26	23
19	34	36	137	111	290	1,450	296	94	60	38	26	23
20	31	40	142	300	252	2,450	266	94	57	38	26	23
21	43	36	117	352	229	1,787	253	92	55	37	24	23
22	40	47	110	282	211	1,076	253	91	55	36	23	22
23	37	51	94	232	211	1,790	238	91	55	35	23	22
24	37	53	78	219	192	647	222	88	55	35	23	20
25	33	51	74	275	210	561	213	87	55	35	23	19
26	33	50	60	314	265	523	195	84	54	34	23	18
27	31	47	55	394	339	511	192	81	53	34	23	17
28	30	46	52	342	328	581	182	80	51	33	23	18
29	28	45	52	345	312	553	173	78	51	32	23	18
30	27	40	51	297	281	516	166	78	50	32	23	18
31	41	41	252	252	263	158	158	78	51	32	23	18
Total	856	1,101	2,035	5,080	10,254	18,759	11,067	3,337	1,904	1,229	756	670
Mean	28.5	35.5	67.8	164	331	625	357	111	61.4	39.6	27.0	21.6
Max.	43	53	142	394	615	2,450	667	167	78	48	32	28
Min.	22	23	40	48	192	201	158	78	50	32	23	17
Runoff - mcm.	73.958	95.126	175.824	438.912	885.941	1,620.778	956.189	288.317	164.506	106.186	65.318	57.888

WATER YEAR 1962 : Max. 2,450 Min. 17 Mean 156 Annual Runoff 4,929.034 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 20	15.00	68.31	2,746				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tham, Khanchanaburi (K.8)

Location: Lat 13° - 58' - 06" N, Long 99° - 35' - 12" E, on left bank 350 meters downstream from Wat Tha Lo, Amphoe Tha Muang, Khanchanaburi.

Drainage Area: 27,200 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +14.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank near the camp of station K.8
Elevation: +24.500 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 - 66

Rated by Float: -

Rated by Current Meter: 1957 - 66

Stability of Channel Regimes: Rather unstable, periodic rating curve and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: No overbank flow.

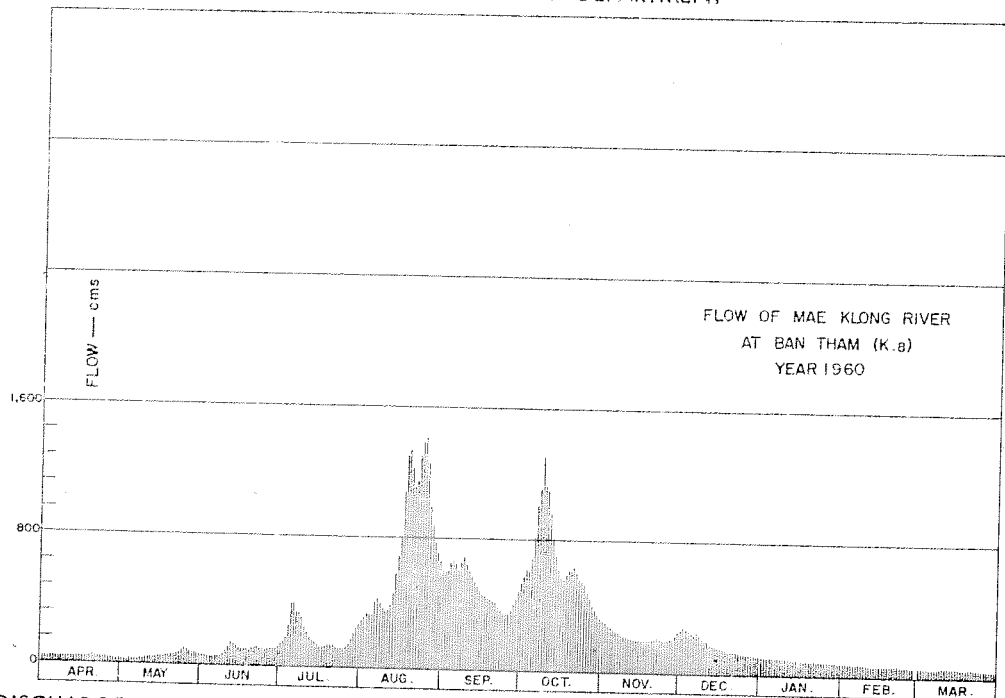
General Description: Records good. Stage - discharge relationship used by discharge measurements made during 1960. Upstream diversion of about 2,960 hectares are made at Tha Lo Project which is about 350 meters upstream. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.71	14.66	14.92	15.41	16.13	17.35	17.16	16.22	15.98	15.12	14.90	14.81
2	.70	.67	.88	.50	.23	.35	.28	.15	16.01	.11	.90	.80
3	.71	.67	.86	.65	.31	.37	.42	.09	15.96	.11	.89	.79
4	.72	.69	.85	16.03	.29	.56	.38	.04	.92	.09	.89	.79
5	.73	.68	.84	.68	.32	.61	.61	15.98	.89	.08	.88	.78
6	14.74	14.67	14.88	16.67	16.64	17.52	18.19	15.93	15.82	15.08	14.88	14.77
7	.72	.67	.91	.41	.71	.43	.71	.89	.88	.07	.88	.77
8	.70	.71	.89	.38	.57	.57	.87	.84	.79	.06	.87	.77
9	.69	.70	.99	.27	.42	.66	19.48	.79	.69	.65	.86	.78
10	.71	.77	15.08	.02	.35	.54	.01	.77	.62	.05	.86	.79
11	14.73	14.79	15.25	15.77	16.40	17.43	18.92	15.74	15.55	15.04	14.85	14.81
12	.72	.78	.44	.60	.58	.30	.56	.71	.51	.03	.85	.82
13	.73	.79	.41	.49	.84	.17	.09	.68	.47	.02	.84	.82
14	.73	.80	.33	.49	17.28	.01	17.72	.68	.43	.01	.84	.85
15	.73	.84	.24	.33	.68	16.87	.42	.67	.40	15.00	.83	.82
16	14.72	14.77	15.19	15.25	18.09	16.81	17.25	15.64	15.37	14.98	14.90	14.81
17	.71	.82	.16	.23	.96	.79	.21	.63	.35	.98	.85	.80
18	.72	.85	.14	.28	19.61	.73	.31	.62	.33	.97	.86	.79
19	.82	.85	.12	.31	.69	.70	.45	.66	.31	.96	.87	.81
20	.83	.90	.21	.34	.41	.67	.42	.64	.28	.95	.88	.82
21	14.82	14.91	15.27	15.33	18.94	16.62	17.47	15.67	15.27	14.94	14.90	14.82
22	.79	.95	.27	.27	19.03	.55	.35	.71	.25	.94	.91	.80
23	.76	.96	.21	.23	.48	.44	.22	.66	.23	.94	.89	.78
24	.75	15.11	.16	.22	.68	.35	.21	.62	.22	.94	.87	.76
25	.74	.15	.18	.23	.52	.34	.13	.62	.20	.94	.87	.75
26	14.71	15.10	15.22	15.27	19.09	16.38	16.92	15.63	15.19	14.93	14.83	14.73
27	.69	.06	.21	.39	18.62	.49	.74	.66	.18	.93	.82	.72
28	.67	.02	.19	.55	.26	.63	.60	.66	.17	.92	.81	.71
29	.67	14.99	.21	.70	17.95	.74	.49	.73	.16	.92	.71	.71
30	.67	.95	.30	.89	.78	.93	.38	.85	.15	.91	.71	.71
31		.92		16.02	.61		.30		.13	.91		.71
Mean	14.73	14.84	15.13	15.65	17.76	17.00	17.56	15.77	15.47	15.00	14.87	14.78
Max.	14.83	15.15	15.44	16.68	19.69	17.66	19.48	16.22	16.01	15.12	14.91	14.85
Min.	14.67	14.66	14.84	15.22	16.13	16.34	16.30	15.62	15.13	14.91	14.81	14.71

WATER YEAR 1960 : Max. 19.69 m. Min. 14.67 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35	29	64	139	290	594	542	310	272	110	74	50
2	34	30	58	154	312	594	574	295	278	109	74	49
3	35	30	55	181	330	600	614	282	268	107	72	48
4	37	33	54	254	327	653	602	272	259	106	72	49
5	38	32	53	393	333	667	667	260	253	104	69	48
6	39	30	58	390	410	642	847	250	238	104	68	47
7	37	30	62	334	427	616	1,024	242	251	103	68	47
8	34	35	60	328	393	656	1,081	232	232	101	67	47
9	33	34	74	305	357	682	1,311	222	212	100	65	49
10	35	43	86	252	340	647	1,132	218	198	100	65	50
11	38	46	112	203	352	616	1,099	212	184	98	62	53
12	37	44	144	184	395	580	970	206	176	97	62	54
13	38	46	139	163	459	544	815	200	169	95	61	53
14	38	47	125	145	576	503	700	200	161	94	60	53
15	38	53	110	134	688	467	614	198	156	92	58	50
16	37	43	103	121	815	452	566	202	151	89	58	48
17	35	50	98	117	1,081	448	555	200	148	89	60	46
18	37	54	98	126	1,298	432	538	198	144	88	60	44
19	50	54	92	131	1,324	424	622	206	141	86	61	47
20	51	61	106	136	1,230	417	614	202	136	85	62	48
21	50	62	115	134	1,106	405	628	208	134	83	64	48
22	46	68	115	124	1,139	388	594	216	131	83	65	46
23	42	69	106	117	1,310	362	558	206	129	83	62	43
24	41	91	98	115	1,390	340	555	198	126	83	58	41
25	38	97	101	117	1,416	338	534	198	123	83	54	40
26	35	89	107	124	1,234	347	479	200	121	82	52	37
27	33	83	106	145	991	374	434	286	120	82	50	36
28	30	78	103	175	869	407	400	206	118	80	49	36
29	30	74	106	204	771	434	374	220	117	80	49	36
30	30	68	120	242	718	482	347	245	115	79	49	37
31	64	64		268	667		328		112	79		37
Total	1,131	1,667	2,825	5,955	23,348	15,111	20,763	6,710	5,373	2,854	1,752	1,418
Mean	37.7	53.8	94.2	192	753	504	670	224	173	92	62.6	45.7
Max.	51	97	144	393	1,416	682	1,311	310	278	110	74	54
Min.	30	29	53	115	290	338	328	198	112	79	49	36
Runoff - ccm.	97.718	144.029	244.080	514.512	2,017.267	1,305.590	1,793.923	579.744	464.227	246.586	151.373	122.515

WATER YEAR 1960 : Max. 1,416 Min. 29 Mean 244 Annual Runoff 7,724.765 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	12.00	19.75	1,416				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tham, Khanchanaburi (K.8)

Location: Lat 13° - 58' - 06" N, Long 99° - 35' - 12" E, on left bank 350 meters downstream from Wat Tha Lo, Amphoe Tha Muang, Khanchanaburi.

Drainage Area: 27,200 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +14.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank near the camp of station K.8

Elevation: +24.500 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 - 66

Rated by Float: -

Rated by Current Meter: 1957 - 66

Stability of Channel Regimes: Rather unstable, shifting adjustment, periodic rating curve and mean hourly discharge are included for flow computation

Overbank Flow Conditions: Overbank flow was observed at elev.+22.12 m.(M.S.L.) and is included for flow computation.

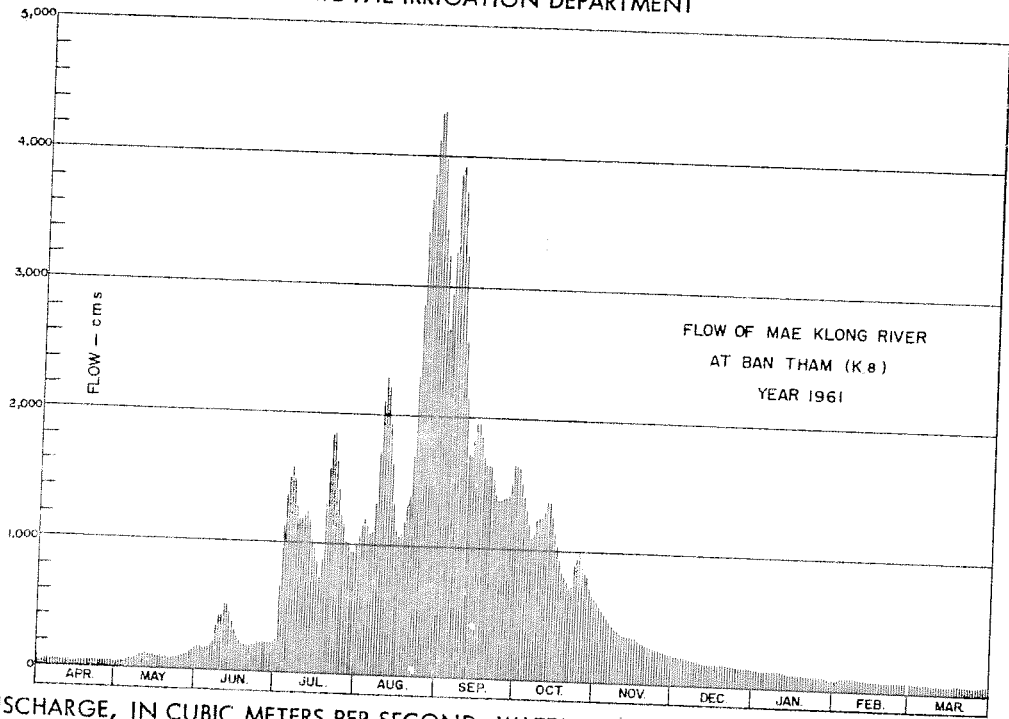
General Description: Records fair. Stage - discharge relationship used by discharge measurements made during 1961. Upstream diversion of about 2,960 hectares are made at Tha Lo Project, which is about 350 meters upstream. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.71	14.69	15.62	16.23	19.48	22.47	20.23	17.77	16.24	15.69	15.33	15.10
2	.72	.71	.60	17.24	.61	.86	19.94	.67	.21	.67	.32	.10
3	.78	.77	.57	18.48	.50	23.40	.70	.55	.19	.66	.31	.10
4	.74	.80	.55	19.74	.30	.72	.46	.44	.16	.65	.30	.09
5	.77	.90	.56	20.30	.22	.87	.27	.35	.13	.63	.29	.08
6	14.75	14.93	15.59	20.46	19.37	23.75	19.32	17.26	16.11	15.64	15.28	15.07
7	.73	.92	.78	.20	20.24	.81	.60	.19	.08	.65	.27	.07
8	.72	.96	16.43	19.67	21.40	22.49	.62	.12	.05	.63	.26	.07
9	.71	15.05	.81	.37	22.00	21.48	.54	.06	.02	.61	.26	.06
10	.71	.16	17.00	.50	21.90	20.76	.63	.01	.00	.60	.25	.05
11	14.72	15.15	17.26	19.72	21.34	20.68	19.81	16.96	15.98	15.58	15.25	15.04
12	.71	.17	.01	.59	20.58	21.03	.92	.92	.96	.56	.24	.04
13	.70	.22	16.83	.21	19.92	.28	.74	.88	.95	.55	.23	.03
14	.68	.13	.58	18.88	.49	.24	.33	.85	.94	.53	.23	.03
15	.69	.05	.31	.60	.24	20.98	.05	.80	.93	.51	.23	.03
16	14.70	15.02	16.03	18.24	19.36	20.67	18.78	16.77	15.91	15.50	15.22	15.04
17	.70	.05	15.85	.07	.64	.55	.60	.74	.90	.49	.21	.06
18	.74	.06	.74	19.05	.87	.59	.44	.69	.89	.48	.20	.10
19	.76	.04	.69	20.57	20.12	.48	.33	.64	.87	.47	.19	.09
20	.77	.01	.67	21.11	.66	.18	.22	.60	.86	.46	.18	.05
21	14.74	14.98	15.65	21.20	21.63	20.00	18.28	16.56	15.84	15.45	15.16	15.03
22	.73	.98	.78	20.91	22.60	19.95	.37	.52	.83	.44	.15	.02
23	.73	15.00	.88	.30	23.09	20.00	.86	.50	.82	.42	.15	.00
24	.74	.03	.80	19.66	.45	.03	19.12	.47	.81	.42	.14	14.98
25	.80	.08	.83	.27	.78	19.95	18.80	.44	.80	.41	.13	.98
26	14.76	15.10	15.88	19.16	24.02	19.95	18.46	16.41	15.78	15.38	15.12	14.98
27	.74	.17	.90	.13	.21	20.19	.26	.38	.77	.37	.12	15.02
28	.75	.27	.84	18.93	.24	.50	.10	.36	.76	.36	.11	.06
29	.71	.35	.80	.79	23.97	.59	17.98	.31	.74	.35	.07	.07
30	.69	.47	.89	.97	.44	.48	.92	.27	.73	.35	.08	.08
31		.59		19.22	22.76		.86		.71	.34		.08
Mean	14.73	15.06	16.02	19.35	21.27	21.26	18.98	16.85	15.93	15.51	15.22	15.05
Max.	14.80	15.59	17.26	21.20	24.24	23.87	20.23	17.77	16.24	15.69	15.33	15.10
Min.	14.68	14.69	15.55	16.23	19.22	19.95	17.86	16.27	15.71	15.34	15.11	14.98

WATER YEAR 1961 : Max. 24.24 m. Min. 14.68 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	37	35	182	302	1,172	*2,658	1,483	580	222	134	90	66
2	38	36	176	541	1,222	*2,994	1,359	563	217	131	89	66
3	40	42	171	902	1,172	*3,487	1,254	511	213	130	88	66
4	41	46	166	1,313	1,097	*3,798	1,164	483	208	128	87	65
5	45	60	175	1,516	1,097	*3,947	1,097	464	203	125	86	64
6	42	65	189	1,591	1,154	*3,827	1,110	444	200	126	85	63
7	40	62	223	1,430	1,521	*3,402	1,223	429	194	128	84	63
8	38	70	351	1,304	2,112	*2,675	1,251	401	189	125	82	63
9	37	84	413	1,157	2,329	2,071	1,236	391	184	123	82	62
10	37	100	459	1,182	2,194	1,732	1,292	371	181	122	81	61
11	37	99	519	1,254	1,906	1,695	1,376	356	178	119	81	60
12	36	104	459	1,204	1,549	1,859	1,380	361	174	116	80	60
13	33	116	406	1,074	1,296	1,977	1,287	364	173	115	79	59
14	31	99	361	966	1,179	1,958	1,147	354	172	113	79	59
15	32	82	298	883	1,071	1,836	1,031	339	170	111	79	59
16	35	78	256	779	1,114	1,690	893	330	167	110	78	60
17	35	81	220	732	1,211	1,633	820	317	165	109	77	62
18	37	82	205	1,658	1,325	1,652	784	300	163	107	76	66
19	40	81	191	1,644	1,413	1,601	729	296	160	106	75	65
20	41	76	185	1,922	1,687	1,460	713	294	158	105	74	61
21	37	71	185	1,864	*2,218	1,384	745	284	156	104	72	59
22	36	71	212	1,671	*2,754	1,363	784	275	154	103	71	58
23	36	74	232	1,443	*3,190	1,384	968	269	152	101	71	56
24	38	79	216	1,229	*3,561	1,397	1,075	263	151	101	70	54
25	46	87	221	1,091	*3,864	1,388	935	256	150	100	69	54
26	41	90	230	1,025	*4,098	1,392	806	248	146	96	68	54
27	38	102	234	1,018	*4,298	1,511	742	242	145	95	68	58
28	41	119	223	944	*4,330	1,648	668	242	144	94	67	58
29	36	133	214	919	*4,047	1,638	646	235	140	93	67	62
30	33	155	234	992	*3,525	1,601	646	218	139	93	64	64
31	176	176	1,071	*2,904	596	596	596	218	136	93	64	64
Total	1,134	2,655	7,806	36,021	67,607	64,998	31,240	10,478	5,304	3,456	2,188	1,896
Mean	37.8	85.6	260	1,163	2,181	2,021	1,008	349	171	111	78.1	61.2
Max.	46	176	519	1,922	4,330	3,497	1,483	580	222	134	90	66
Min.	31	35	166	302	1,071	1,363	596	218	136	93	67	54
Runoff - mcm.	97.978	229.392	674.438	3,112.214	5,841.245	5,625.827	2,699.136	905.299	458.266	298.598	189.043	163.814

WATER YEAR 1961 : Max. 4,330 Min. 31 Mean 637 Annual Runoff 20,083.075 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 28	05.00	24.27	4,363				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tham, Khanchanaburi (K.8)

Location: Lat 13° 58' - 06" N, Long 99° 35' - 12" E, on left bank 350 meters downstream from Wat Tha Lo, Amphoe Tha Muang, Khanchanaburi.

Drainage Area: 27,200 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +14.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: On left bank near the camp of station K.8
Elevation: +24.500 m.(M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957 - 66
Rated by Float: -
Rated by Current Meter: 1957 - 66

Stability of Channel Regimes: Rather unstable, shifting adjustment, periodic rating curve and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elev. +22.12 m.(M.S.L.) and is included for flow computation.

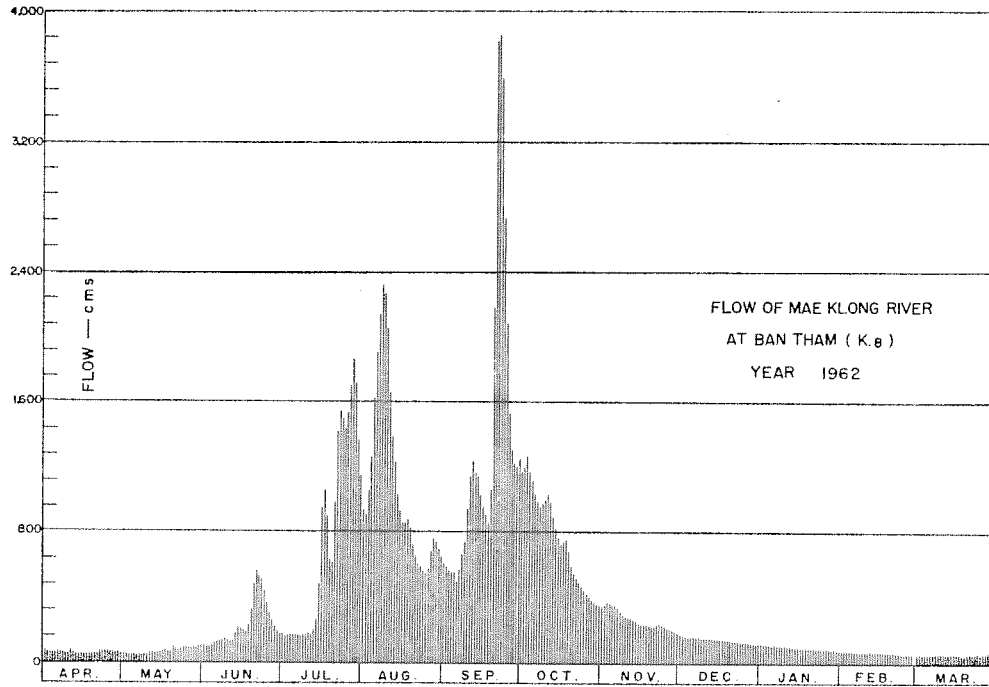
General Description: Records fair. Stage - discharge relationship used by discharge measurements made during 1962. Upstream diversion of about 2,960 hectares are made at Tha Lo Project, which is about 350 meters upstream. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15.06	15.01	15.38	15.80	18.88	17.77	19.07	16.71	15.78	15.32	14.91	14.91
2	.03	14.97	.38	.73	.68	.73	.25	.71	.76	.30	.90	.90
3	.01	.93	.35	.75	19.13	.64	.46	.72	.74	.30	.90	.90
4	.01	.92	.47	.78	.77	.49	.26	.69	.72	.29	.89	.89
5	14.99	.97	.62	.76	20.65	.48	.10	.66	.70	.28	.89	.89
6	14.97	14.92	15.67	15.76	21.39	17.45	18.94	16.61	15.68	15.27	14.89	14.89
7	.96	.91	.63	.79	.94	.49	.80	.59	.66	.26	.89	.89
8	.94	.90	.63	.75	22.14	.90	.73	.53	.64	.25	.88	.88
9	.93	.92	.64	.77	21.88	18.11	.79	.47	.62	.24	.88	.88
10	.94	.96	.56	.79	.30	.65	.83	.40	.60	.22	.89	.89
11	15.15	15.03	15.53	15.78	20.62	19.25	18.96	16.36	15.59	15.21	14.91	14.91
12	14.99	.04	.64	.81	19.95	.53	.83	.31	.57	.20	.93	.93
13	.93	.04	.88	.93	.47	.32	.57	.28	.56	.19	.93	.93
14	.93	.05	16.03	16.15	.17	.26	.35	.24	.55	.18	.92	.92
15	.92	.06	.01	17.06	18.92	18.93	.22	.21	.54	.17	.92	.92
16	14.92	15.14	15.95	18.50	18.75	18.73	18.15	16.17	15.53	15.17	14.89	14.89
17	.92	.17	16.01	.88	.71	.60	.15	.13	.52	.16	.88	.88
18	.90	.08	.18	.44	.77	.41	.12	.10	.50	.15	.87	.87
19	.96	.08	.56	17.72	.61	.93	17.92	.07	.49	.14	.86	.86
20	.98	.30	17.25	.59	.29	21.54	.72	.04	14.72	.13	.88	.88
21	14.97	15.22	17.49	18.70	18.06	23.73	17.59	16.02	15.45	15.13	14.87	14.87
22	15.09	.15	.39	19.88	17.94	.73	.48	15.99	.44	.12	.88	.88
23	.09	.25	.32	20.28	.81	.07	.40	.97	.43	.11	.90	.90
24	.08	.33	.12	.19	.71	22.24	.30	.94	.41	.11	.93	.93
25	.14	.33	16.81	19.93	.63	21.10	.20	.92	.40	.10	.83	.83
26	15.14	15.30	16.49	20.28	17.69	20.22	17.12	15.89	15.38	15.09	14.86	14.86
27	.10	.31	.24	.81	18.05	19.70	.05	.87	.37	.08	.85	.85
28	.05	.31	.07	21.03	.34	.49	16.98	.85	.36	.07	.84	.84
29	.09	.31	15.95	20.74	.25	.45	.91	.85	.35	.06	15.00	15.00
30	.02	.35	.86	.20	.09	.52	.84	.81	.34	.05	14.93	14.93
31		.37		19.49	17.94		.79		.33	.04	.85	.85
Mean	15.01	15.12	16.10	17.78	19.18	19.41	18.12	16.24	15.53	15.17	14.89	14.89
Max.	15.15	15.37	17.49	21.03	22.14	23.73	19.46	16.72	15.78	15.32	15.00	15.00
Min.	14.90	14.90	15.35	15.73	17.63	17.45	16.79	15.81	15.33	15.04	14.86	14.83

WATER YEAR 1962 : Max. 23.73 m. Min. 14.83 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	63	55	102	176	932	606	1,074	350	182	114	76	55
2	60	51	99	164	907	595	1,206	358	176	112	74	54
3	57	49	92	174	1,058	571	1,270	374	169	112	74	54
4	58	47	106	178	1,282	533	1,170	368	166	112	76	53
5	57	51	126	174	1,625	530	1,106	364	165	111	76	53
6												
7	61	48	127	178	1,932	523	1,038	354	162	109	74	54
8	56	50	129	170	2,149	571	985	354	160	108	72	54
9	53	44	140	166	2,321	677	957	326	157	106	72	53
10	51	45	146	170	2,245	743	978	294	156	105	70	53
11	51	53	132	178	1,974	928	993	286	154	102	70	54
12												
13	75	60	127	184	1,659	1,139	1,038	282	156	101	69	58
14	54	60	142	174	1,388	1,235	989	276	153	99	70	60
15	48	58	184	206	1,226	1,165	897	262	151	96	69	60
16	49	60	220	264	1,030	1,146	820	255	150	94	69	59
17	48	61	218	487	935	1,029	766	249	150	92	67	58
18												
19	48	71	200	957	869	964	731	241	147	92	66	54
20	48	75	212	1,061	858	921	746	239	147	92	65	50
21	46	63	246	897	883	859	753	239	144	92	65	47
22	51	63	328	632	830	1,067	680	236	141	92	64	47
23	55	94	487	614	725	2,181	598	232	138	92	64	50
24												
25	54	82	560	982	660	3,816	555	230	135	94	62	51
26	68	71	526	1,426	623	3,849	523	236	133	92	62	53
27	68	84	513	1,546	592	3,235	498	247	130	91	61	55
28	67	94	458	1,507	563	2,549	468	234	127	91	60	59
29	67	92	381	1,406	553	1,949	442	227	126	88	59	48
30												
31	66	85	312	1,537	576	1,523	422	218	123	87	59	50
32	64	89	262	1,710	686	1,307	404	212	120	84	60	51
33	58	91	230	1,886	776	1,226	388	207	117	81	58	52
34	64	91	204	1,665	746	1,206	370	200	115	78	76	76
35	56	101	184	1,370	698	1,246	362	194	114	75	64	64
36	102	102	1,102	654	654	358	358	114	114	74	74	53
Total	1,721	2,140	7,193	23,341	33,955	39,770	23,585	8,144	4,478	2,968	1,883	1,692
Mean	57.4	69.0	240	753	1,095	1,326	761	271	144	95.7	67.2	54.6
Max.	75	102	560	1,886	2,321	3,849	1,270	374	182	114	76	76
Min.	46	44	92	164	553	523	358	194	114	74	58	47
Runoff - mcm.	148.694	184.896	621.475	2,016.662	2,933.712	3,436.128	2,037.744	703.642	386.899	256.435	162.691	146.189

WATER YEAR 1962 : Max. 3,849 Min. 44 Mean 413 Annual Runoff 13,036.118mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	23.00	24.10	4,108				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
MAE KLONG RIVER BASIN

Khwaee Noi at Wang Pho, Khanchanaburi (K.9)

Location: Lat $14^{\circ} - 06' - 56''$ N, Long $99^{\circ} - 08' - 20''$ E, on left bank about 300 meters from Wang Pho Railway Station, Amphoe Sai Yok, Khanchanaburi.

Drainage Area: 6,902 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +33.00 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: On left bank near the bank at Wang Pho.

Elevation: +54.582 m.(M.S.L.)

Gage Reading Frequency: 24 - hourly readings.

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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. The data presented is made by discharge measurements during 1962. No state diversions for irrigation above gage site.

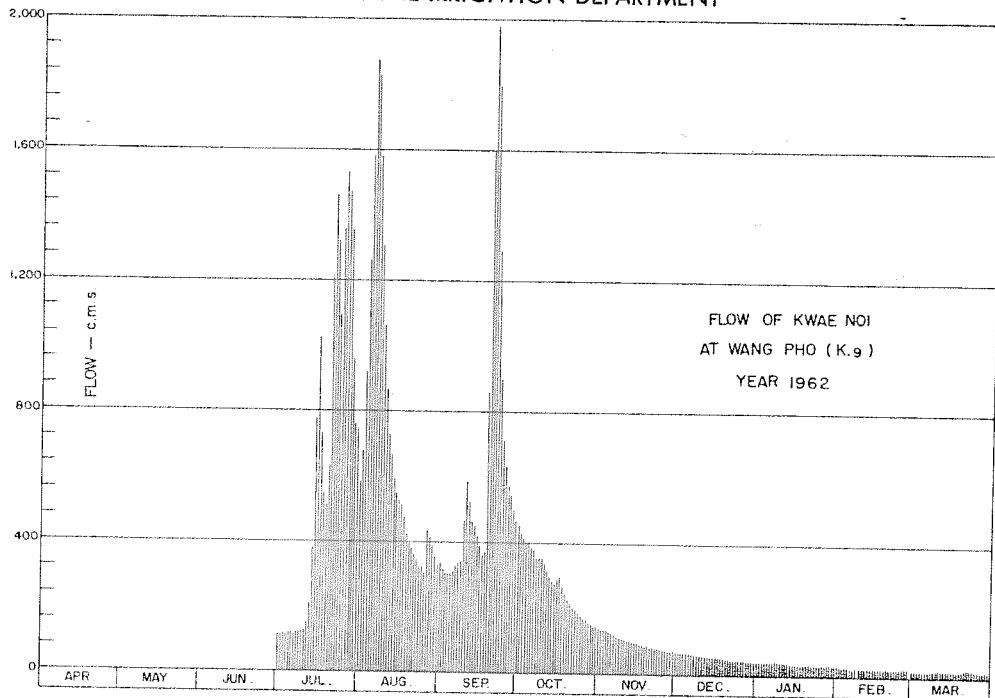
Remarks: Gage height began to record on Jul.1

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				35.24	40.20	37.98	39.08	35.65	34.50	34.05	33.78	33.61
2				.26	.92	.77	38.88	.61	.47	.03	.77	.60
3				.28	42.44	.64	.72	.60	.45	.02	.77	.58
4				.22	44.35	.63	.64	.59	.42	.01	.76	.58
5				.31	45.92	.69	.64	.48	.41	.01	.76	.58
6				35.34	47.22	37.75	38.48	35.40	34.39	34.01	33.75	33.57
7				.28	.05	.92	.37	.34	.37	.00	.74	.56
8				.35	45.90	38.00	.16	.27	.34	.00	.73	.56
9				.38	44.58	.05	.15	.21	.33	33.99	.73	.57
10				.38	43.25	39.21	.15	.16	.32	.97	.72	.59
11				35.53	42.13	40.20	37.96	35.11	34.31	33.96	33.71	33.63
12				.88	41.31	39.68	.77	.08	.31	.95	.70	.61
13				36.59	40.79	.16	.60	.05	.29	.94	.70	.60
14				38.40	41.40	.07	.41	.01	.29	.93	.69	.58
15				41.56	39.95	38.82	.32	34.96	.28	.92	.68	.57
16				43.05	39.74	38.49	37.53	34.92	34.26	33.89	33.67	33.54
17				41.26	.65	.22	.60	.88	.26	.88	.66	.53
18				39.92	.30	.32	.25	.64	.24	.87	.65	.51
19				.64	38.85	42.08	36.95	.81	.21	.86	.64	.52
20				40.56	.61	45.99	.75	.78	.19	.86	.63	.54
21				44.12	38.41	47.68	36.59	34.75	34.18	33.86	33.63	33.63
22				45.31	.24	46.89	.46	.72	.16	.85	.63	.65
23				44.17	.11	44.50	.34	.69	.15	.84	.63	.63
24				43.42	37.86	42.31	.22	.66	.14	.84	.64	.59
25				44.83	.86	41.15	.14	.64	.12	.83	.65	.55
26				45.68	37.66	40.58	36.06	34.61	34.11	33.82	33.67	33.53
27				.43	38.95	.18	35.97	.59	.10	.81	.64	.51
28				44.82	.79	39.84	.88	.57	.09	.80	.63	.49
29				42.76	.48	.53	.80	.56	.07	.78	.64	.47
30				41.46	.13	.20	.73	.53	.06	.78	.64	.47
31				40.43	37.95		.69		.06	.78		.46
Mean				39.61	40.74	40.05	37.30	35.00	34.25	33.91	33.69	33.56
Max.				45.68	47.22	47.68	39.08	35.65	34.50	34.05	33.78	33.65
Min.				35.22	37.66	37.63	35.69	34.53	34.06	33.78	33.63	33.46

WATER YEAR 1962 : Max. 47.68 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				116	585	338	452	142	72	46	33	24
2				118	683	317	430	140	70	45	32	24
3				119	921	305	412	139	69	45	32	23
4				115	1,265	304	404	138	67	44	32	23
5				121	1,584	309	404	131	67	44	32	23
6				122	1,872	315	388	126	65	44	31	23
7				119	1,832	332	377	122	64	44	31	22
8				123	1,580	340	356	118	62	44	30	22
9				125	1,309	345	355	115	62	43	30	23
10				125	1,064	466	356	112	61	42	30	24
11				134	868	585	336	109	61	42	29	25
12				159	738	520	317	107	61	41	29	24
13				215	665	461	301	105	59	41	29	24
14				380	611	451	284	103	59	40	28	23
15				776	552	423	276	100	59	40	28	23
16				1,028	527	389	295	97	58	38	27	22
17				731	516	362	301	95	58	38	27	21
18				549	476	372	269	92	56	37	26	20
19				515	426	860	244	91	55	37	26	21
20				632	401	1,599	228	89	53	37	25	22
21				1,222	381	1,982	215	87	53	37	25	25
22				1,456	364	1,796	205	85	52	36	25	26
23				1,321	351	1,294	195	83	51	36	25	25
24				1,095	326	899	186	82	51	36	26	24
25				1,358	326	715	179	80	50	35	26	22
26				1,534	306	635	173	79	49	35	27	21
27				1,481	437	582	166	77	49	34	26	20
28				1,356	420	539	159	76	48	34	25	20
29				965	388	502	153	76	47	33		19
30				761	353	465	148	74	47	33		19
31				756	335		145		47	33		18
Total				19,537	22,462	18,802	8,709	3,070	1,782	1,214	792	695
Mean				630	724	627	281	102	57.5	39.2	28.3	22.5
Max.				1,534	1,872	1,982	452	142	72	46	33	26
Min.				116	306	304	145	74	47	33	25	18
Runoff - mcm.				1,687.997	1,940.717	1,624.493	752.450	265.248	153.965	104.890	68.429	60.048

WATER YEAR 1962 : Max. 1,982 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	13.00	47.85	2,013				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PHET RIVER BASIN

Phet River at Ban Rai Phaniat, Phetchaburi (B.1)

Location: Lat 13°-04' - 28" N, Long 99°-56' - 37" E, on right bank at Ban Rai Phaniat, 4 kilometers upstream from Muang Phetchaburi and 1 kilometer left of Phet Kasem Highway at Ban Rai Tin Nam, Amphoe Muang, Phetchaburi.

Drainage Area: 4,188 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the cross road in front of Wang Ban Pun

Elevation: +4.719 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: 1916 - 60

Rating Operation:

Period of Rating: 1937 - 38

Rated by Float: -

Rated by Current Meter: 1937 - 38

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow.

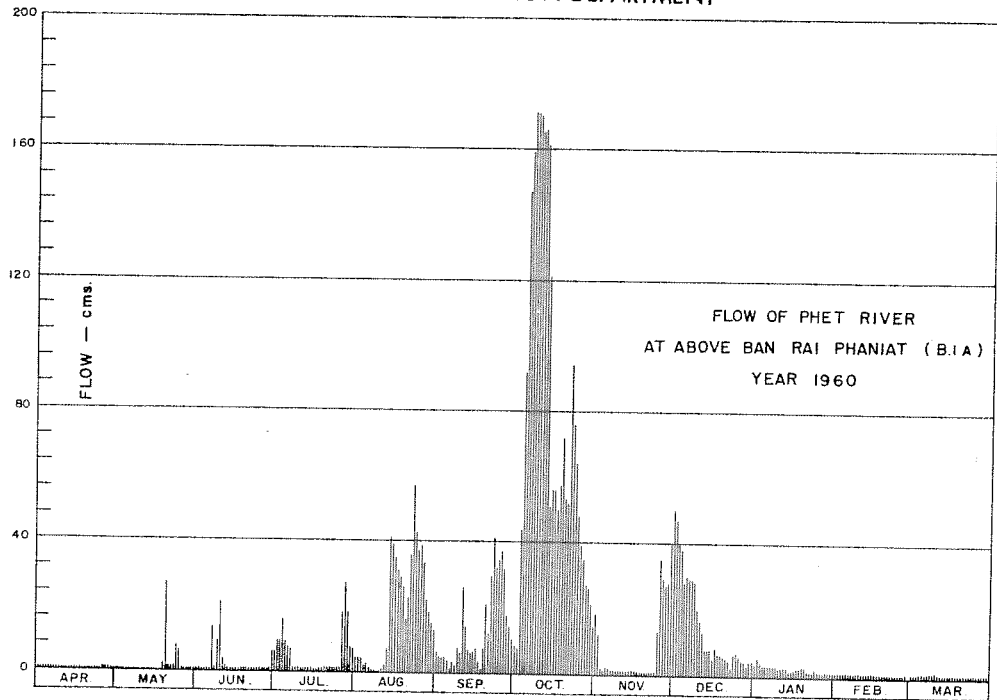
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965 at station B.1A, which is 1 kilometer at downstream at the same datum. Upstream diversions for irrigation of about 27,800 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M. S. L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.84	0.81	0.92	1.45	1.36	1.47	1.59	2.02	3.04	1.28	1.01	1.00
2	.84	.80	.93	.65	.36	.37	.54	1.56	2.95	.41	.03	0.99
3	.83	.78	.91	.64	.35	.36	2.88	.14	.77	.30	.02	.99
4	.83	.77	.91	.93	.16	.37	4.01	.10	.71	.26	.02	1.05
5	.82	.76	.90	.63	.21	.29	5.04	.17	.39	.27	.02	.05
6	0.82	0.76	0.90	1.54	1.04	1.07	5.23	1.14	2.46	1.25	1.01	1.00
7	.81	.75	1.82	.49	0.96	.28	.44	.04	.43	.23	.01	.08
8	.80	.75	.03	.05	.91	.18	.44	.02	.41	.22	.00	.11
9	.80	.75	.62	.02	.90	.53	.41	.01	.39	.24	.02	.10
10	.81	.74	2.14	.02	.85	.46	.34	.04	.12	.20	.01	.09
11	0.81	0.74	1.30	1.01	1.01	2.33	5.35	1.03	1.96	1.20	1.00	1.00
12	.81	.73	.08	.00	.19	1.91	.26	.01	.80	.21	.00	0.98
13	.82	.73	.00	.04	.52	.50	4.57	.00	.53	.16	.00	.97
14	.81	.72	0.92	.00	2.80	.48	3.58	.01	.56	.10	.00	.97
15	.81	.75	.90	.00	.73	.22	.19	.02	.56	.10	.01	.96
16	0.81	0.76	0.96	0.99	2.61	1.53	3.20	1.01	1.40	1.17	1.00	1.08
17	.81	.78	.96	.99	.48	.28	.04	.00	.58	.19	.00	.12
18	.80	.78	.97	1.01	.43	.05	.22	0.99	.48	.20	0.99	.01
19	.81	1.17	.94	.02	.32	.57	.58	.97	.45	.22	.99	0.94
20	.80	2.35	.93	.06	1.94	2.16	.10	.97	.42	.21	.99	.97
21	0.79	1.07	0.93	1.08	2.20	1.78	3.08	0.95	1.40	1.07	0.98	0.99
22	.77	.06	.93	.07	.65	2.47	4.04	.96	.38	.07	.98	.98
23	.77	.03	.95	.04	3.22	.78	3.67	.95	.20	.05	.98	.97
24	.76	.55	.96	.11	2.86	.52	.39	1.01	.48	.04	.97	.97
25	.80	.47	.99	.05	.69	.61	2.99	2.14	.49	.05	.97	.97
26	0.99	0.94	1.00	1.10	2.73	2.67	2.75	2.63	1.42	1.04	0.97	0.96
27	.99	.93	0.98	2.04	.55	.53	.62	.43	.38	.03	1.00	.96
28	.94	.92	.95	.35	.19	.00	.37	.36	.37	.02	.00	.96
29	.87	.91	.95	1.85	.05	1.84	.33	.40	.26	.02	.97	.97
30	.81	.91	1.47	.54	1.92	.68	.16	.76	.34	.02	.97	.97
31		.91		.52	.82		1.87		.34	.01		.96
Mean	0.83	0.93	1.07	1.30	1.90	1.74	4.46	1.36	1.82	1.16	0.99	1.00
Max.	0.99	2.35	2.14	2.35	3.22	2.78	5.44	2.76	3.04	1.41	1.03	1.12
Min.	0.80	0.72	0.90	0.99	0.85	1.05	1.54	0.95	1.20	1.01	0.97	0.94

WATER YEAR 1960 : Max. 5.44 m. Min. 0.72 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.04	0.48	5.85	4.40	6.19	8.32	18	50	3.26	0.84	0.80
2	0.16	0.00	0.52	9.50	4.40	4.55	7.42	7.78	47	5.17	0.92	0.76
3	0.12	0.00	0.44	9.30	4.25	4.40	44	1.64	40	3.50	0.88	0.76
4	0.12	0.00	0.44	16	1.86	4.55	92	1.20	38	3.02	0.88	1.00
5	0.08	0.00	0.40	9.10	2.42	3.38	147	1.97	28	3.14	0.88	1.00
6	0.08	0.00	0.40	7.42	0.96	1.08	159	1.64	30	2.90	0.84	0.80
7	0.04	0.00	13	6.53	0.64	3.26	171	0.96	29	2.66	0.84	1.12
8	0.00	0.00	0.92	1.00	0.44	2.08	171	0.88	29	2.54	0.80	1.31
9	0.00	0.00	8.90	0.88	0.40	7.24	170	0.84	28	2.78	0.88	1.20
10	0.04	0.00	21	0.88	0.20	6.02	165	0.96	20	2.30	0.84	1.16
11	0.04	0.00	3.50	0.84	0.84	26	166	0.92	16	2.30	0.80	0.80
12	0.04	0.00	1.12	0.80	2.19	15	161	0.84	13	2.42	0.80	0.72
13	0.08	0.00	0.80	0.96	7.06	6.70	121	0.80	7.24	1.86	0.80	0.68
14	0.04	0.00	0.48	0.80	41	6.36	50	0.84	7.78	1.20	0.80	0.68
15	0.04	0.00	0.40	0.80	39	2.54	56	0.88	7.78	1.20	0.84	0.64
16	0.04	0.00	0.64	0.76	35	7.24	56	0.84	5.00	1.97	0.80	1.12
17	0.04	0.00	0.64	0.76	31	3.26	50	0.80	8.14	2.19	0.80	1.42
18	0.00	0.00	0.68	0.84	29	1.00	57	0.76	6.36	2.30	0.76	0.84
19	0.04	1.97	0.56	0.88	26	7.96	72	0.68	5.85	2.54	0.76	0.56
20	0.00	27	0.53	1.04	16	21	53	0.68	5.34	2.42	0.76	0.68
21	0.00	1.08	0.52	1.12	23	12	52	0.60	5.00	1.08	0.72	0.76
22	0.00	1.04	0.52	1.08	36	30	94	0.64	4.70	1.08	0.72	0.72
23	0.00	0.92	0.60	0.96	57	41	76	0.60	2.30	1.00	0.72	0.68
24	0.00	7.62	0.64	1.31	43	32	64	0.84	6.36	1.96	0.68	0.68
25	0.00	6.19	0.76	1.00	37	35	48	21	6.53	1.00	0.68	0.68
26	0.76	0.56	0.80	1.20	39	37	39	35	5.34	0.96	0.68	0.64
27	0.76	0.52	0.76	18	33	32	35	29	4.70	0.92	0.80	0.64
28	0.56	0.48	0.60	27	22	17	27	27	4.55	0.88	0.80	0.64
29	0.28	0.44	0.60	14	18	14	26	28	3.02	0.88		0.68
30	0.04	0.44	6.19	7.42	15	10	21	40	4.10	0.88		0.68
31		0.44		7.06	13		14		4.10	0.84		0.64
Total	3.56	48.72	67.84	155.09	583.16	399.81	2,472.74	225.67	472.19	62.15	22.32	25.49
Mean	0.12	1.57	2.26	5.00	18.81	13.32	79.76	7.52	15.23	2.00	0.79	0.82
Max.	0.76	27	21	27	57	41	171	35	15.23	5.17	0.92	1.42
Min.	0.00	0.00	0.40	0.76	0.20	1.00	7.42	0.60	2.30	0.84	0.68	0.56
Runoff - mcm.	0.307	4.209	5.861	13.310	50.385	34.543	213.645	22.090	40.797	5.370	1.928	2.202

WATER YEAR 1960 : Max. 171 Min. 0.00 Mean 12.43 Annual Runoff 392.147 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 7	15.00	5.47	173				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
PHET RIVER BASIN

Phet River at Ban Rai Phaniat, Phetchaburi (B.1A)

Location: Lat 13°-04' - 22" N, Long 99°-56' - 37" E, on right bank at Ban Rai Phaniat, 3 kilometers upstream from Muang Phetchaburi and 1 kilometer left of Phet Kasem Highway at Ban Rai Tin Nam, Amphoe Muang, Phetchaburi.

Drainage Area: 4,188 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the cross road in front of Wang Ban Pun.
Elevation: +4.719 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: 1960 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 for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

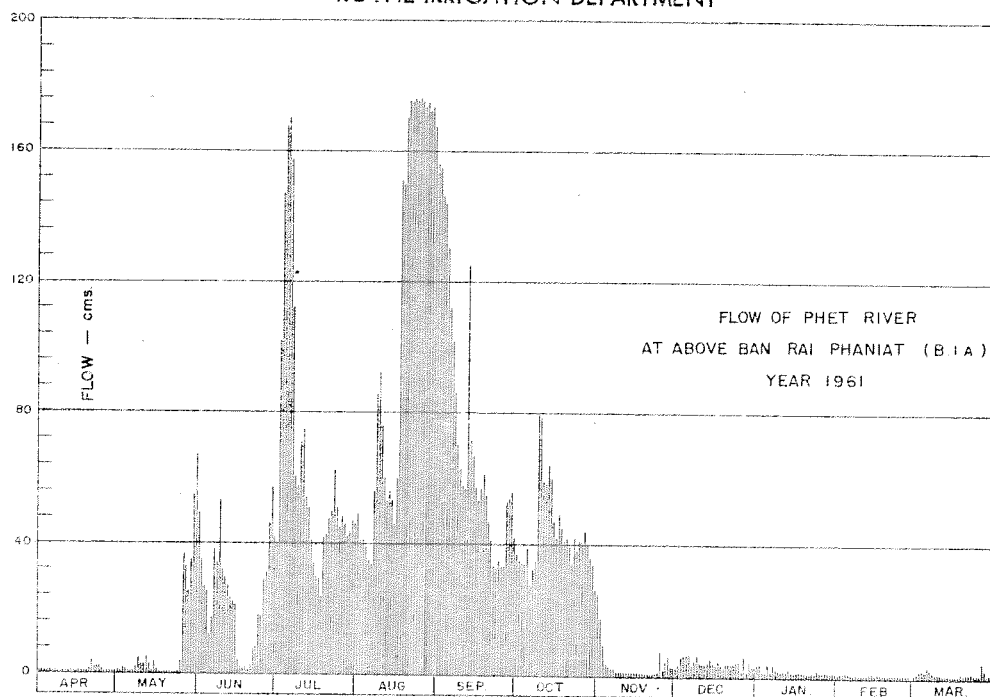
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965. Upstream diversions for irrigation of about 27,800 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.98	1.04	3.00	2.75	3.00	5.16	2.67	2.29	1.22	1.30	0.98	0.96
2	.98	0.99	2.62	4.21	2.80	.01	.62	.24	.30	.33	1.05	1.05
3	.97	1.14	.36	5.03	.80	4.98	.58	1.65	.45	.09	.06	.14
4	.96	.04	.30	.36	.73	.72	.58	.32	.48	.04	.06	.20
5	.96	0.91	1.76	.41	.60	.44	.72	.23	.50	.32	.04	.16
6	0.95	0.90	2.00	5.20	2.59	4.20	2.39	1.18	1.48	1.05	0.97	1.25
7	.95	.99	.70	4.41	3.20	3.88	.52	.15	.27	.28	.97	.19
8	.94	1.14	.58	3.29	.87	.52	.63	.10	.38	.18	.97	.12
9	.94	.37	3.11	.21	4.01	.37	3.75	.09	.46	.14	.97	.09
10	.93	.21	2.52	.55	3.67	.23	.73	.08	.31	.13	.97	.08
11	0.93	1.26	2.42	3.64	3.29	3.22	3.26	1.07	1.30	1.12	0.97	1.02
12	.93	.39	.35	.14	.11	.96	.27	.07	.30	.12	.97	0.95
13	.94	.26	.23	.07	.19	.57	.39	.05	.34	.19	1.05	.94
14	.95	0.97	.17	2.80	.12	.45	.30	.05	.43	.11	.07	.94
15	.94	1.28	.14	.58	2.94	.21	2.95	.04	.30	.10	0.98	.94
16	0.93	1.06	1.36	2.46	3.30	3.10	2.82	1.04	1.29	1.10	1.05	0.93
17	.92	0.88	.15	.42	5.10	.22	3.00	.03	.38	.11	0.99	.93
18	.94	.88	.13	.25	.06	.32	2.90	.01	.30	.12	.98	.94
19	.94	.90	.14	.83	.42	.17	.79	0.99	.22	.08	.98	1.07
20	1.11	.86	.05	.85	.50	2.96	.85	1.00	.30	.00	.97	0.99
21	1.20	0.86	1.23	2.97	5.50	2.78	2.74	0.99	1.31	1.00	0.97	1.06
22	.14	.85	.55	3.04	.51	.54	.57	1.00	.30	.03	.96	.01
23	.17	.84	.61	.35	.50	.56	.82	.05	.31	.06	.95	.11
24	.14	.85	2.05	.07	.51	.61	.71	.07	.35	.15	.94	.60
25	.07	1.31	1.97	2.89	.50	.56	.79	.54	.36	.07	.94	0.98
26	0.90	1.77	2.39	2.99	5.46	2.55	2.76	1.16	1.08	1.05	0.94	0.97
27	.93	2.69	.48	.93	.50	3.10	.88	.36	.45	.12	.94	1.34
28	.96	.33	.94	.83	.45	.15	.76	.47	.08	.10	.96	.19
29	.95	.61	3.22	.88	.46	.02	.64	.24	.36	.01	.92	0.92
30	.94	3.17	2.82	.95	.36	2.81	.59	.56	.23	.10	1.05	1.05
31		.47		.92	.20		.33		.23	.02		0.98
Mean	0.98	1.36	2.14	3.33	4.20	3.44	2.84	1.24	1.32	1.12	0.99	1.05
Max.	1.20	3.47	3.22	5.41	5.51	5.16	3.75	2.29	1.50	1.33	1.07	1.34
Min.	0.90	0.84	1.05	2.25	2.59	2.54	2.33	0.99	1.08	1.00	0.94	0.92

WATER YEAR 1961 : Max. 5.51 m. Min. 0.84 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.72	0.96	49	40	49	155	37	25	2.54	3.50	0.72	0.64
2	0.72	0.76	35	102	41	146	35	24	3.50	3.95	1.00	0.92
3	0.68	1.64	27	147	41	144	34	9.50	5.85	1.16	1.04	1.64
4	0.64	0.96	25	167	39	130	34	3.80	6.36	0.96	1.04	2.30
5	0.64	0.44	12	170	35	114	39	2.66	6.70	3.80	0.96	1.86
6	0.60	0.40	17	157	34	102	28	2.08	6.36	1.00	0.69	2.90
7	0.60	0.76	38	112	56	86	32	1.75	3.14	3.26	0.68	2.19
8	0.56	1.64	34	60	86	70	35	1.20	4.70	2.08	0.68	1.42
9	0.56	4.55	53	57	92	63	80	1.16	6.02	1.64	0.68	1.16
10	0.52	2.42	32	71	76	58	79	1.12	3.65	1.53	0.68	1.12
11	0.52	3.02	29	75	60	57	59	1.08	3.50	1.42	0.68	0.88
12	0.52	4.85	27	54	53	90	59	1.08	3.50	1.42	0.68	0.60
13	0.56	3.02	23	51	56	72	64	1.00	4.10	2.19	1.00	0.56
14	0.60	0.68	22	41	53	67	60	1.00	5.51	1.31	1.08	0.56
15	0.56	3.26	21	34	46	57	47	0.96	3.50	1.20	0.72	0.56
16	0.52	1.04	4.40	30	60	53	42	0.96	3.38	1.20	1.00	0.52
17	0.48	0.32	1.75	29	151	57	49	0.92	4.70	1.31	0.76	0.52
18	0.56	0.32	1.53	24	149	61	45	0.84	3.50	1.42	0.72	0.56
19	0.56	0.40	1.64	42	170	55	41	0.76	2.54	1.12	0.72	1.08
20	1.31	0.24	1.00	43	175	47	42	0.80	3.50	0.80	0.68	0.76
21	2.30	0.24	2.66	48	175	41	39	0.76	3.65	0.80	0.68	1.04
22	1.64	0.20	7.60	50	176	33	34	0.80	3.50	0.92	0.64	0.84
23	1.97	0.16	8.70	62	175	33	42	1.00	3.65	1.04	0.60	1.31
24	1.64	0.20	18	51	176	35	38	1.08	4.25	1.75	0.56	0.80
25	1.08	3.65	17	45	175	33	41	7.42	4.40	1.08	0.56	0.72
26	0.40	12	28	48	173	33	40	1.86	1.12	1.00	0.56	0.68
27	0.52	37	31	46	175	53	44	4.40	5.85	1.42	0.56	4.10
28	0.64	26	46	42	172	54	40	6.19	1.12	1.20	0.64	2.19
29	0.60	35	57	44	173	49	36	2.78	4.40	0.84	0.48	0.48
30	0.56	55	42	47	167	42	34	7.78	2.66	1.20	1.00	1.00
31		67	46	46	157		26		2.66	0.88		0.72
Total	23.78	268.13	712.28	2,035	3,416	2,090	1,355	115.74	123.81	48.40	21.01	36.63
Mean	0.79	8.65	23.7	65.64	110	69.7	43.7	3.86	3.99	1.56	0.75	1.18
Max.	2.30	67	57	170	176	155	80	25	6.70	3.95	1.08	4.10
Min.	0.40	0.16	1.00	24	34	33	26	0.76	1.12	0.80	0.56	0.48
Runoff - mcm.	2.054	23.166	61.541	175.582	295.142	180.576	117.072	10.000	10.697	4.182	1.815	3.165

WATER YEAR 1961 : Max. 176 Min. 0.16 Mean 28.1 Annual Runoff 885.235 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 14	06.00	5.57	179				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
PHET RIVER BASIN

Phet River at Ban Rai Phaniat, Phetchaburi (B.1A)

Location: Lat 13°-04' - 22" N, Long 99°-56' - 37" E, on right bank at Ban Rai Phaniat, 3 kilometers upstream from Muang Phetchaburi and 1 kilometer left of Phet Kasem Highway at Ban Rai Tin Nam, Amphoe Muang, Phetchaburi.

Drainage Area: 4,188 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(M.S.L.)

Bench Mark: B.M. - R.I.D.

Location: At the cross road in front of Wang Ban Pun.

Elevation: +4.719 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: 1960 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 for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

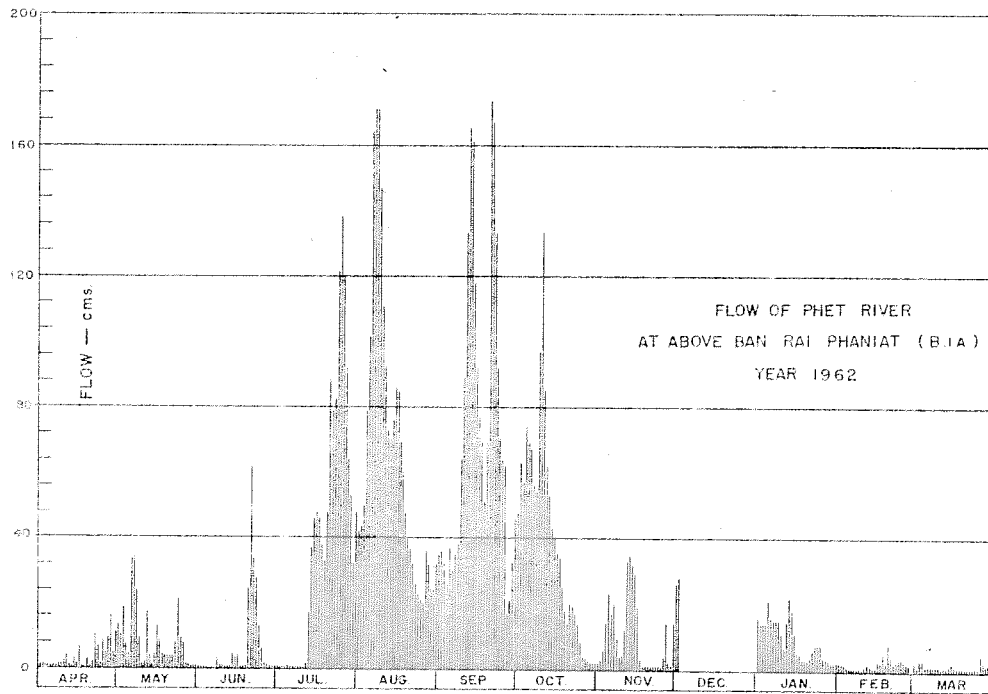
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1965. Upstream diversions for irrigation of about 27,800 hectares. No adjustment made for virgin flow.

Remarks: No gage height record for Dec. 3 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	1.82	0.96	0.99	2.88	2.61	2.99	1.16	2.31	1.95	1.19	1.20
2	.03	.70	.94	.98	.88	.64	3.37	.25	.38	.88	.18	0.99
3	0.97	2.02	.92	.97	3.15	.52	.21	.44		.86	.17	1.26
4	.95	1.49	.89	.98	.72	.32	.62	.88		.91	.01	.18
5	.94	.35	.87	1.01	4.14	.68	.50	2.21		2.06	0.97	.07
6	0.99	2.56	0.86	0.99	5.31	2.45	3.47	2.00		1.94	0.96	1.64
7	1.00	.59	.87	.97	.44	.61	.19	.10		.92	.96	.02
8	.04	.56	1.26	.96	.44	.70	.15	1.62		.92	.96	.01
9	.09	1.64	.01	.96	.05	3.38	4.11	.39		.90	.95	.01
10	.17	.01	0.99	.96	4.38	.95	.78	.35		.72	.94	.01
11	1.32	1.14	0.97	0.92	4.02	4.78	3.85	1.77		1.49	1.05	0.97
12	.03	.99	.99	1.10	3.59	5.34	.34	2.54		.92	.14	.98
13	0.88	.30	.98	1.98	.53	.26	.10	.61		2.17	.05	.98
14	1.24	.01	1.37	2.68	.65	4.51	2.85	.51		.05	.00	1.18
15	.10	.35	.28	.94	.88	.00	.76	.43		1.71	0.97	.15
16	1.47	1.81	1.34	2.99	3.86	3.68	2.64	2.08		1.39	1.22	1.03
17	0.89	.62	0.99	.94	.53	.50	.57	1.24		.37	.16	0.98
18	.82	.34	.97	.71	.30	.06	.28	.10		.23	.39	.97
19	1.22	.31	.95	.56	2.97	.50	.02	.04		.23	.19	.96
20	.07	.31	2.55	.99	.77	5.46	1.87	.03		.22	.57	.96
21	1.14	1.33	3.33	3.93	2.68	5.37	2.10	1.00		1.29	1.33	0.95
22	.11	.33	2.59	.75	.53	4.78	.08	.07		.45	.16	.95
23	.68	.55	.38	.80	.31	.09	.01	.03		.53	.21	.94
24	.28	2.15	1.83	4.56	.20	3.54	1.85	.04		.53	.27	.93
25	.59	1.65	.45	.88	.13	.38	.58	.01		.55	.29	.94
26	1.35	1.57	1.16	4.55	2.11	3.34	1.30	1.33		1.31	1.21	1.34
27	.64	.13	.02	.01	.65	2.01	.28	.87		.28	.16	.19
28	.96	.02	.01	3.40	.51	.15	.23	.20		.25	.14	.13
29	.35	0.99	0.98	.10	.24	.75	.18	.10		.20		.15
30	.72	.97	1.00	2.53	.25	.93	.16	.84		.20		.65
31		.96		.97	.53		.14			.20		.23
Mean	1.20	1.53	1.29	2.42	3.45	3.51	2.60	1.57		1.60	1.13	1.07
Max.	1.96	2.59	3.33	4.88	5.44	5.46	4.78	2.61		2.17	1.57	1.65
Min.	0.82	0.96	0.86	0.92	2.11	2.01	1.14	1.00		1.20	0.94	0.93

WATER YEAR 1962 : Max. 5.46 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	13	0.64	0.76	42	35	48	1.86	26	16	2.19	2.30
2	0.92	10	0.56	0.72	44	36	63	2.90	28	14	2.08	0.76
3	0.68	18	0.48	0.68	54	32	57	5.68		14	1.97	3.02
4	0.60	6.53	0.36	0.72	79	26	74	14		15	0.84	2.08
5	0.56	4.25	0.28	0.84	99	37	69	23		19	0.68	1.08
6	0.76	33	0.24	0.76	164	30	67	17		16	0.64	0.96
7	0.80	34	0.28	0.58	171	35	56	20		15	0.64	0.88
8	0.96	33	3.02	0.64	171	38	54	8.90		15	0.64	0.84
9	1.16	9.30	0.84	0.64	147	64	97	3.80		15	0.60	0.84
10	1.97	0.84	0.76	0.54	111	89	133	4.25		11	0.56	0.84
11	3.80	1.64	0.68	0.48	93	133	85	12		6.53	1.00	0.68
12	0.92	17	0.76	1.20	73	165	62	33		15	1.64	0.72
13	0.32	3.50	0.72	17	70	161	53	35		22	1.00	0.72
14	2.78	0.84	4.55	37	75	118	43	32		18	0.80	2.08
15	1.20	4.25	3.26	46	86	92	40	29		11	0.68	1.75
16	6.19	13	4.10	48	85	77	36	19		4.85	2.54	0.92
17	0.36	8.90	0.76	46	70	69	34	2.78		4.55	1.86	0.72
18	0.08	4.10	0.68	38	60	51	25	1.20		2.66	4.85	0.68
19	2.54	3.65	0.60	33	48	60	18	0.96		2.66	2.19	0.64
20	1.08	3.65	33	48	40	173	14	0.92		2.54	7.96	0.64
21	1.64	3.95	62	86	37	167	20	0.80		3.38	3.95	0.60
22	1.31	3.95	34	79	32	133	19	1.08		5.85	1.86	0.60
23	10	7.60	28	82	26	92	17	0.92		7.24	2.42	0.56
24	2.26	21	13	121	23	71	14	0.96		7.24	3.14	0.52
25	8.32	9.50	5.85	138	21	54	8.14	0.84		7.60	3.38	0.56
26	4.25	7.96	1.86	120	20	62	3.50	3.95		3.65	2.42	4.10
27	9.30	1.53	0.88	92	36	17	3.26	14		3.26	1.86	2.19
28	16	0.88	0.84	64	32	21	2.66	2.30		2.90	1.64	1.53
29	4.25	0.76	0.72	53	24	40	2.08	1.20		2.30	2.30	1.75
30	11	0.68	0.80	32	24	46	1.86	14		2.30	2.30	9.50
31		0.64		48	32		1.64			2.30		2.66
Total	96.81	260.90	204.22	1,238.76	2,090.00	2,243	1,221.14	275.30		287.81	50.11	47.72
Mean	3.23	9.06	6.80	40.1	67.4	74.8	39.4	9.17		9.28	1.78	1.53
Max.	16	34	62	138	171	173	133	35		22	7.96	9.50
Min.	0.08	0.64	0.24	0.48	20	17	1.64	0.80		2.30	0.56	0.52
Runoff - ccm.	8.364	24.270	17.645	107.029	186.576	193.795	105.506	23.786		24.867	4.329	4.123

WATER YEAR 1962 : Max. 173 Min. 0.08 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 20	18.00	5.52	176				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PHET RIVER BASIN

Phet River at Phet Barrage, Phetchaburi (B.2A)

Location: Lat $12^{\circ} 54' - 44''$ N, Long $99^{\circ} - 51' - 31''$ E, on left bank 50 meters downstream side of Phet Barrage and discharge measurements are made at 500 meters downstream, 17 kilometers from Phet Kasem Highway at Amphoe Tha Yang, Phetchaburi.

Drainage Area: 4,060 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +12.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On the abutment of Phet Barrage.

Elevation: + 23.00 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1961, 1965 to date.

Rated by Float: -

Rated by Current Meter: 1961, 1965 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

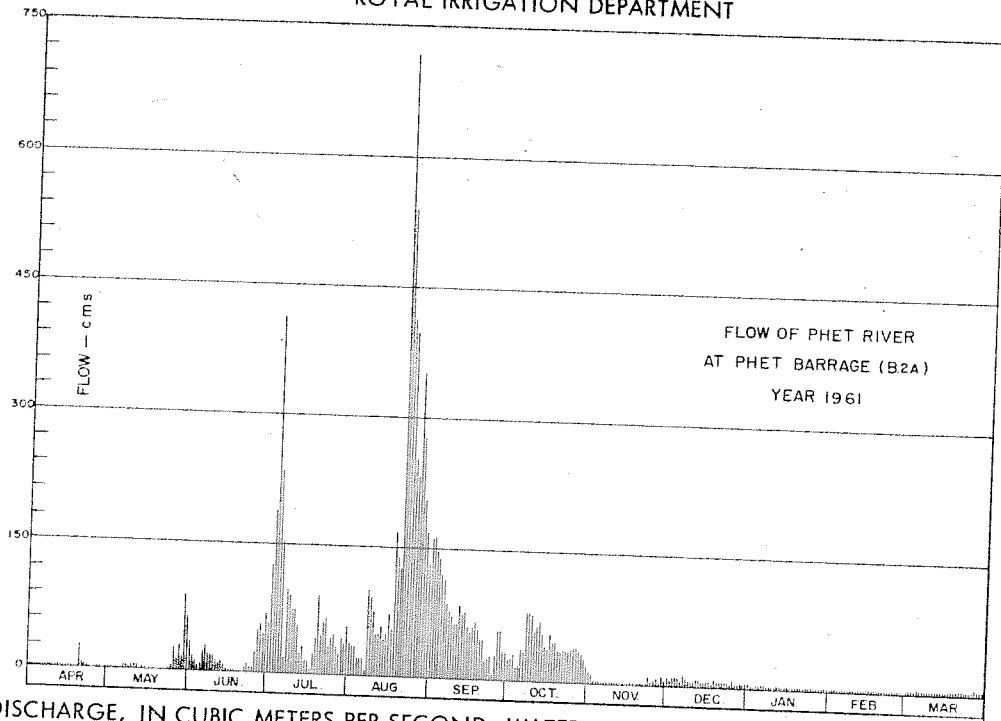
General Description: Records good. Flow regulated by diversion dam for irrigation of about 27,800 hectares at Phet Barrage. Stage - discharge relationship used is defined by discharge measurement during 1961. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.10	12.11	12.89	13.50	12.95	14.77	12.65	12.41	12.31	12.20	12.12	12.10
2	.10	.14	.52	14.35	.90	.80	.71	.33	.26	.12	.15	.14
3	.10	.09	.40	15.10	.90	.60	.81	.11	.35	.10	.13	.12
4	.10	.07	.26	16.65	.65	.50	.47	.12	.35	.18	.13	.10
5	.10	.07	.30	15.53	.66	.25	.55	.15	.35	.12	.11	.18
6	12.10	12.07	12.65	14.67	12.65	14.20	12.93	12.11	12.19	12.19	12.10	12.14
7	.10	.20	.80	12.55	.25	13.80	.85	.10	.43	.19	.10	.10
8	.10	.21	.62	13.95	14.00	.65	13.65	.10	.32	.16	.10	.10
9	.10	.12	.55	.85	13.85	.55	.65	.10	.26	.16	.10	.10
10	.10	.22	.55	.60	.60	.40	.63	.10	.20	.16	.10	.10
11	12.10	12.22	12.42	13.60	13.15	13.40	13.32	12.10	12.20	12.16	12.10	12.10
12	.10	.22	.34	.30	.17	.75	.40	.10	.29	.18	.12	.10
13	.10	.07	.39	12.65	.31	.60	.50	.10	.30	.16	.12	.10
14	.10	.14	.30	.85	.05	.65	.26	.10	.22	.15	.10	.10
15	.10	.11	.16	.45	.16	.35	.00	.10	.20	.15	.12	.10
16	12.10	12.06	12.10	12.45	13.55	13.25	12.95	12.10	12.25	12.17	12.11	12.10
17	.10	.06	.10	.20	.25	.35	13.26	.10	.26	.16	.10	.10
18	.10	.06	.10	.65	14.85	.45	.06	.10	.17	.15	.10	.13
19	.10	.06	.08	13.05	.50	.30	.10	.10	.29	.11	.10	.12
20	.74	.06	.08	.85	.35	.10	12.94	.10	.21	.17	.10	.15
21	12.24	12.06	12.08	13.08	17.68	13.10	12.90	12.10	12.21	12.12	12.10	12.11
22	.19	.06	.22	.37	.15	12.60	.95	.10	.25	.10	.10	.17
23	.13	.06	.35	.45	16.65	.65	.91	.10	.24	.17	.10	.12
24	.11	.14	.20	12.85	.57	.72	.91	.32	.24	.13	.10	.10
25	.07	.22	.20	13.05	15.68	.25	.93	.14	.13	.13	.10	.10
26	12.10	12.72	12.65	13.13	15.50	12.75	13.00	12.20	12.30	12.15	12.10	12.16
27	.10	.43	13.15	12.85	16.33	13.30	.00	.29	.15	.11	.10	.22
28	.10	.81	.30	.65	15.87	.30	12.92	.15	.18	.10	.10	.12
29	.07	.46	.10	13.05	.25	12.85	.85	.35	.19	.12	.10	.13
30	.11	13.82	.50	12.95	14.87	.85	.75	.21	.17	.12	.10	.11
31		.42		13.30	.40		.55		.20	.10		.12
Mean	12.13	12.28	12.48	13.43	14.28	13.47	13.01	12.15	12.25	12.14	12.11	12.12
Max.	12.74	13.82	13.50	16.65	17.68	14.80	13.65	12.41	12.43	12.20	12.13	12.22
Min.	12.07	12.06	12.08	12.20	12.25	12.25	12.47	12.10	12.13	12.10	12.10	12.10

WATER YEAR 1961 : Max. 17.68 m. Min. 12.06 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.20	3.55	36	58	39	162	25	15	11	6.70	3.90	3.20
2	3.20	4.60	19	127	36	164	27	12	8.98	3.90	4.25	4.60
3	3.20	2.88	14	190	36	147	32	3.55	12	3.20	4.25	3.90
4	3.20	2.24	8.98	413	25	139	17	3.90	12	6.00	4.25	3.20
5	3.20	2.24	10	235	25	120	20	4.95	12	3.90	3.55	6.00
6	3.20	2.24	25	153	25	116	38	3.55	6.35	6.35	3.20	4.60
7	3.20	6.70	32	20	8.60	89	34	3.20	15	6.35	3.20	3.20
8	3.20	7.00	23	99	102	79	79	3.20	11	5.30	3.20	3.20
9	3.20	3.90	20	92	92	73	79	3.20	8.98	5.30	3.20	3.20
10	3.20	7.46	20	76	76	64	78	3.20	6.70	5.30	3.20	3.20
11	3.20	7.46	15	76	50	64	59	3.20	6.70	5.30	3.20	3.20
12	3.20	7.46	12	58	51	86	64	3.20	10	6.00	3.90	3.20
13	3.20	2.24	14	25	59	76	70	3.20	10	5.30	3.90	3.20
14	3.20	4.60	10	34	44	79	56	3.20	7.46	4.95	3.20	3.20
15	3.20	3.55	5.30	16	50	61	41	3.20	6.70	4.95	3.90	3.20
16	3.20	1.92	3.20	16	73	55	39	3.20	8.60	5.65	3.55	3.20
17	3.20	1.92	3.20	6.70	55	61	56	3.20	8.98	5.30	3.20	3.20
18	3.20	1.92	3.20	25	168	67	45	3.20	5.65	4.95	3.20	4.25
19	3.20	1.92	2.56	44	139	58	47	3.20	10	3.55	3.20	3.90
20	29	1.92	2.56	92	127	47	38	3.20	7.08	5.65	3.20	4.95
21	8.22	1.92	2.56	46	703	47	36	3.20	7.08	3.90	3.20	3.55
22	6.35	1.92	7.46	62	540	22	39	3.20	8.60	3.20	3.20	5.65
23	4.25	1.92	12	67	413	25	37	3.20	8.22	5.65	3.20	3.90
24	3.55	4.60	6.70	34	397	28	37	11	8.22	4.25	3.20	3.20
25	2.24	7.46	6.70	44	253	8.60	38	4.60	4.25	4.25	3.20	3.20
26	3.20	28	25	49	232	29	41	6.70	10	4.95	3.20	5.30
27	3.20	15	50	34	351	58	41	10	4.95	3.55	3.20	7.46
28	3.20	32	58	25	278	58	37	4.95	6.00	3.20	3.20	3.90
29	2.24	17	47	44	206	34	34	12	6.35	3.90	4.25	4.25
30	3.55	90	70	39	170	34	29	7.08	5.65	3.90	3.20	3.55
31		65		58	151		20		6.70	3.20		3.90
Total	129.80	342.62	564.42	2,357.70	4,954.60	2,150.60	1,333	153.68	261.20	147.85	96.25	121.66
Mean	4.35	11.0	18.8	76.0	160	71.7	43.0	5.12	8.42	4.77	3.44	3.92
Max.	29	90	70	413	703	164	79	15	15	6.70	4.25	7.46
Min.	2.24	1.92	2.56	6.70	8.60	8.60	17	3.20	4.25	3.20	3.20	3.20
Runoff - mcm.	11.215	29.602	48.766	203.705	428.077	185.812	115.171	13.278	22.568	12.774	8.316	10.511

WATER YEAR 1961 : Max. 703 Min. 1.92 Mean 34.5 Annual Runoff 1,089.201 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	18.00	17.68	703				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PHET RIVER BASIN

Phet River at Phet Barrage, Phetchaburi (B.2A)

Location: Lat $12^{\circ} - 54' - 44''$ N, Long $99^{\circ} - 51' - 31''$ E, on left bank 50 meters downstream side of Phet Barrage and discharge measurements are made at 500 meters downstream, 17 kilometers from Phet Kasem Highway at Amphoe Tha Yang, Phetchaburi.

Drainage Area: 4,060 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 12.00 m.(M.S.L.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On the abutment of Phet Barrage.

Elevation: +23.00 m.(M.S.L.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1961, 1965 to date.

Rated by Float: -

Rated by Current Meter: 1961, 1965 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

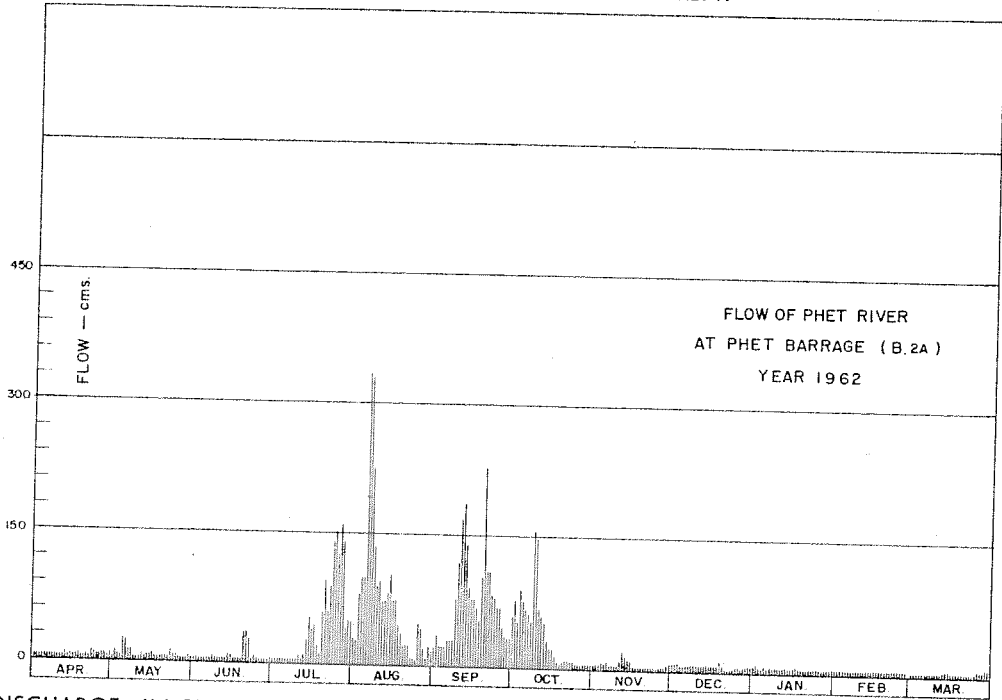
General Description: Records good. Flow regulated by diversion dam for irrigation of about 27,800 hectares at Phet Barrage. Stage - discharge relationship used is defined by discharge measurement during 1961. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.14	12.13	12.10	12.10	12.75	12.60	13.30	12.10	12.23	12.20	12.10	12.05
2	.10	.28	.10	.10	.70	.90	.60	.15	.23	.20	.13	.05
3	.10	.20	.10	.10	13.70	.60	.20	.15	.23	.10	.13	.05
4	.10	.13	.10	.10	.95	.60	.80	.23	.18	.10	.13	.05
5	.10	.65	.10	.10	.95	.60	.60	.18	.18	.20	.13	.05
6	12.10	12.60	12.10	12.10	16.23	12.75	13.43	12.25	12.18	12.15	12.10	12.05
7	.10	.35	.10	.10	.20	.75	.35	.10	.18	.20	.10	.05
8	.10	.35	.20	.10	15.43	.74	.20	.10	.18	.16	.10	.05
9	.10	.10	.10	.10	14.45	13.60	14.70	.10	.18	.16	.10	.05
10	.10	.10	.10	.10	13.80	14.20	.60	.10	.18	.16	.10	.05
11	12.13	12.15	12.10	12.26	13.90	14.85	13.45	12.30	12.18	12.16	12.10	12.05
12	.10	.25	.10	.10	.55	15.05	.30	.55	.18	.16	.10	.05
13	.20	.10	.10	.30	.55	14.05	.20	.44	.18	.18	.13	.05
14	.10	.20	.25	.70	.70	13.95	12.80	.28	.18	.15	.10	.10
15	.20	.20	.25	13.20	14.00	.60	.60	.28	.18	.15	.10	.10
16	12.10	12.26	12.10	12.95	13.55	13.60	12.60	12.08	12.18	12.15	12.13	12.05
17	.18	.16	.10	13.05	.55	.45	.45	.08	.18	.18	.10	.05
18	.18	.16	.10	12.55	.10	.20	.20	.08	.18	.15	.10	.05
19	.10	.16	.10	.30	12.92	14.00	.15	.08	.34	.15	.10	.05
20	.10	.16	.85	13.30	.60	16.19	.20	.08	.18	.10	.10	.05
21	12.13	12.16	12.86	13.90	12.60	14.10	12.25	12.08	12.05	12.10	12.10	12.05
22	.10	.16	.70	.33	.60	.10	.25	.08	.05	.10	.10	.05
23	.27	.35	.10	.80	.22	13.70	.20	.08	.05	.10	.10	.05
24	.25	.20	.20	14.50	.22	.65	.20	.08	.05	.15	.10	.05
25	.16	.20	.10	.65	.16	.45	.11	.08	.15	.13	.10	.05
26	12.20	12.10	12.10	14.35	13.10	13.45	12.11	12.08	12.15	12.10	12.10	12.15
27	.22	.10	.10	.75	.80	.05	.10	.08	.05	.16	.10	.10
28	.22	.10	.10	.50	12.45	12.80	.10	.08	.15	.10	.10	.10
29	.16	.10	.10	13.00	.20	.80	.10	.16	.15	.10	.10	.25
30	.20	.20	.10	.15	.60	.80	.10	.25	.18	.13	.10	.16
31		.10		.15	.45		.10		.15	.16		.10
Mean	12.15	12.21	12.19	12.93	13.39	13.51	12.82	12.16	12.16	12.14	12.11	12.07
Max.	12.27	12.65	12.86	14.75	16.23	16.19	14.70	12.55	12.34	12.20	12.13	12.25
Min.	12.10	12.10	12.10	12.10	12.16	12.60	12.10	12.08	12.05	12.10	12.10	12.05

WATER YEAR 1962 : Max. 16.23 m. Min. 12.05 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.60	4.25	3.20	3.20	29	22	58	3.20	7.84	6.70	3.20	1.60
2	3.20	9.74	3.20	3.20	27	36	76	4.95	7.84	6.70	4.25	1.60
3	3.20	6.70	3.20	3.20	82	22	52	4.95	7.84	3.20	4.25	1.60
4	3.20	4.25	3.20	3.20	99	22	89	7.84	6.00	3.20	4.25	1.60
5	3.20	25	3.20	3.20	99	22	76	6.00	6.00	6.70	4.25	1.60
6	3.20	22	3.20	3.20	334	29	66	8.60	6.00	4.95	3.20	1.60
7	3.20	12	3.20	3.20	329	29	61	3.20	6.00	6.70	3.20	1.60
8	3.20	12	6.70	3.20	224	29	52	3.20	6.00	5.30	3.20	1.60
9	3.20	3.20	3.20	3.20	135	76	155	3.20	6.00	5.30	3.20	1.60
10	3.20	3.20	3.20	3.20	89	116	147	3.20	6.00	5.30	3.20	1.60
11	4.28	4.95	3.20	8.98	95	168	67	10	6.00	5.30	3.20	1.60
12	3.20	8.60	3.20	3.20	73	186	58	20	6.00	5.30	3.20	1.60
13	6.70	3.20	3.20	10	73	139	52	16	6.00	6.00	4.25	1.60
14	3.20	6.70	8.60	27	82	99	32	9.74	6.00	4.95	3.20	1.60
15	6.70	6.70	8.60	52	102	76	22	9.74	6.00	4.95	3.20	1.60
16	3.20	8.98	3.20	39	73	76	22	2.56	6.00	4.95	4.25	1.60
17	6.00	5.30	3.20	44	73	67	16	2.56	6.00	6.00	3.20	1.60
18	6.00	5.30	3.20	20	47	52	6.70	2.56	6.00	4.95	3.20	1.60
19	3.20	5.30	3.20	10	37	102	4.95	2.56	12	4.95	3.20	1.60
20	3.20	5.30	34	58	22	227	6.70	2.56	6.00	3.20	3.20	1.60
21	4.25	5.30	34	95	22	109	8.60	2.56	1.60	3.20	3.20	1.60
22	3.20	5.30	27	59	22	109	8.60	2.56	1.60	3.20	3.20	1.60
23	9.36	12	3.20	89	7.46	82	6.70	2.56	1.60	3.20	3.20	1.60
24	8.60	6.70	6.70	139	7.46	79	6.70	2.56	1.60	4.95	3.20	1.60
25	5.30	6.70	3.20	151	5.30	67	3.55	2.56	4.95	4.25	3.20	1.60
26	6.70	3.20	3.20	127	47	67	3.55	2.56	4.95	3.20	3.20	4.95
27	7.46	3.20	3.20	161	41	44	3.20	2.56	1.60	3.20	3.20	3.20
28	7.46	3.20	3.20	139	16	32	3.20	2.56	1.60	3.20	3.20	3.20
29	5.30	3.20	3.20	41	6.70	32	3.20	2.56	4.95	3.20	3.20	3.20
30	6.70	6.70	3.20	50	22	32	3.20	6.00	4.95	3.20	8.60	6.00
31	3.20	3.20	3.20	50	16	32	3.20	7.84	6.00	4.25	6.00	3.20
Total	143.41	221.37	199.20	1,405.18	2,536.92	2,248	1,173.05	160.94	170.27	143.65	95.90	72.35
Mean	4.78	7.18	6.64	45.3	75.4	74.9	37.8	5.36	5.49	4.63	3.42	2.33
Max.	9.36	25	34	161	334	227	155	20	12	6.70	4.25	8.60
Min.	3.20	3.20	3.20	3.20	5.30	22	3.20	2.56	1.60	3.20	3.20	1.60
Runoff - mcm.	12.391	19.126	17.211	121.607	201.910	194.227	101.351	13.905	14.711	12.411	8.286	6.251

WATER YEAR 1962 : Max. 334 Min. 1.60 Mean 22.9 Annual Runoff 723.189 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 6	06.00	16.23	334				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PHET RIVER BASIN

Phet River at Ban Song Phi Nong, Phetchaburi (8.3)

Location: Lat 12° - 52' - 04" N, Long 99° - 40' - 40" E, on left bank at Ban Song Phi Nong, 10 kilometers downstream from Kaeng Kra Chan Damsite, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,244 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +41.00 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: On left bank near the upper gage.

Elevation: +48.632 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 - 42, 1954 to date.

Rating Operation:

Period of Rating: 1954 - 59

Rated by Float: -

Rated by Current Meter: 1954 - 59

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage height record. Stage - discharge relationship used is defined by discharge measurements during 1954 - 59. No state diversions for irrigation above gage site.

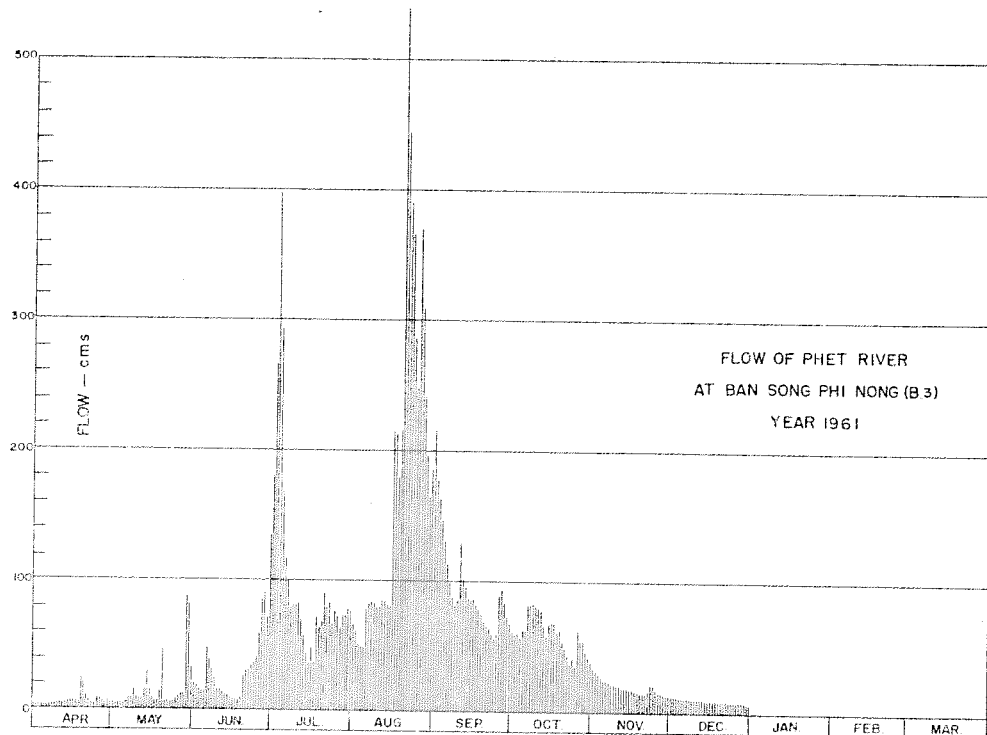
Remarks: No gage height record for Jan.1 - Mar.31. Records of year 1960 and 1962 are very poor and not shown in publication.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41.83	41.92	42.27	43.81	42.88	44.04	42.81	42.49	42.13			
2	.83	.91	.24	44.34	.83	43.80	.79	.45	.12			
3	.83	.93	.21	45.04	.71	.70	.81	.41	.12			
4	.83	.92	.17	44.49	.69	.58	.77	.38	.11			
5	.83	.93	.17	43.73	.67	.46	.83	.35	.10			
6	41.85	41.99	42.66	43.35	43.00	43.31	42.83	42.34	42.09			
7	.85	42.05	.55	.20	.04	.19	43.03	.32	.09			
8	.85	.05	.45	.01	.05	.09	.04	.30	.08			
9	.86	.19	.34	.02	.04	.02	.04	.29	.08			
10	.90	.06	.19	.02	.01	.07	.02	.28	.07			
11	41.87	42.04	42.19	43.04	43.01	43.45	43.01	42.27	42.07			
12	.87	.02	.16	42.91	.06	.22	42.99	.26	.07			
13	.88	.19	.12	.78	.06	.16	.87	.25	.07			
14	.95	.43	.09	.62	.03	.08	.78	.24	.06			
15	.95	.18	.06	.52	.02	.07	.89	.23	.06			
16	41.95	42.04	42.04	42.68	44.04	43.08	42.90	42.22	42.05			
17	.95	41.99	.02	.52	.02	.03	.90	.21	.05			
18	.95	.98	.00	.04	43.81	43.01	.82	.20	.05			
19	42.33	42.17	.06	.86	44.04	42.96	.83	.19	.04			
20	.28	.66	.37	.91	45.86	.91	.74	.18	.04			
21	42.07	41.99	42.43	43.11	45.25	42.87	42.66	42.17	42.04			
22	41.97	.97	.43	.02	.01	.84	.60	.21	.05			
23	.92	.96	.49	.05	44.88	.80	.52	.30	.04			
24	.91	.96	.52	42.88	.45	.76	.57	.29	.03			
25	42.03	42.04	.59	.98	.23	.80	.51	.23	.02			
26	42.02	42.08	42.79	42.94	44.90	43.10	42.83	42.19	42.02			
27	41.98	.13	43.07	.84	.58	.15	.74	.18	.01			
28	.91	.13	.12	.95	.19	.05	.74	.16	.01			
29	.97	43.09	42.93	.95	43.92	42.95	.65	.15	.01			
30	.92	.03	43.50	43.00	.71	.89	.59	.14	41.99			
31		42.46		42.98	.85		.54		.99			
Mean	41.94	42.14	42.41	43.14	43.70	43.14	42.79	42.26	42.09			
Max.	42.33	43.09	43.50	45.04	45.86	44.04	43.04	42.49	42.13			
Min.	41.83	41.91	42.00	42.52	42.67	42.69	42.51	42.14	41.99			

WATER YEAR 1961 : Max. 45.86 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.25	5.60	21	180	67	216	61	35	13			
2	3.25	5.30	19	266	63	178	59	32	13			
3	3.25	5.90	17	398	52	163	61	29	13			
4	3.25	5.60	15	293	50	147	57	27	12			
5	3.50	5.90	15	168	49	131	63	25	12			
6	3.75	7.70	49	117	79	113	63	25	12			
7	3.75	10	39	100	83	99	82	24	12			
8	3.75	10	32	80	84	88	83	22	11			
9	4.00	16	25	81	83	81	83	22	11			
10	5.00	10	16	81	80	86	81	21	11			
11	4.25	9.60	16	83	80	130	80	21	11			
12	4.25	8.80	15	70	85	102	78	20	11			
13	4.50	16	13	52	85	96	66	19	11			
14	6.50	31	12	45	82	87	58	19	10			
15	6.50	16	10	37	81	86	68	18	10			
16	6.50	9.60	9.60	49	216	87	69	18	10			
17	6.50	7.70	8.80	37	213	82	69	17	10			
18	6.50	7.40	8.80	75	180	80	62	16	10			
19	24	15	10	65	216	75	63	16	9.60			
20	21	48	27	70	540	70	55	16	9.60			
21	11	7.70	31	90	444	66	49	15	9.60			
22	7.10	7.10	31	81	390	64	43	17	10			
23	5.60	6.80	35	84	366	60	37	22	9.60			
24	5.30	6.80	37	67	286	56	41	22	9.20			
25	9.20	9.60	42	77	248	60	36	18	8.80			
26	8.80	11	59	73	370	89	63	16	8.80			
27	7.40	13	86	64	309	94	55	16	8.40			
28	5.30	13	91	74	241	84	55	15	8.40			
29	7.10	88	72	74	197	74	47	14	8.40			
30	5.60	82	136	79	164	58	42	14	7.70			
31		33		77	186		38		7.70			
Total	199.65	529.10	997.40	3,191	5,659	2,912	1,867	611	318.80			
Mean	6.65	17.1	33.2	103	183	97.1	60.2	20.3	10.3			
Max.	24	88	136	398	540	216	83	35	13			
Min.	3.25	5.30	8.00	37	49	50	36	14	7.70			
Runoff - ccm.	17.250	45.714	86.175	275.702	499.802	251.597	161.309	52.790	27.544			

WATER YEAR 1961 : Max. 540 Min. - Mean - Annual Runoff - ccm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	12.00	46.05	635				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
PHET RIVER BASIN

Phet River at Kaeng Krachan Damsite, Phetchaburi (B.4)

Location: Lat 12° - 54' - 44" N, Long 99° - 38' - 10" E, on right bank at Kaeng Krachan Damsite, Ban Khao Chao, 43 kilometers along the country road from Phet Kasem Highway at Tha Yang, Phetchaburi.

Drainage Area: 2,203 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +48.485 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: 1 kilometer downstream
Elevation: +66.904 m.(M.S.L.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 - 62

Rating Operation:

Period of Rating: 1960 - 62
Rated by Float: -
Rated by Current Meter: 1960 - 62

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

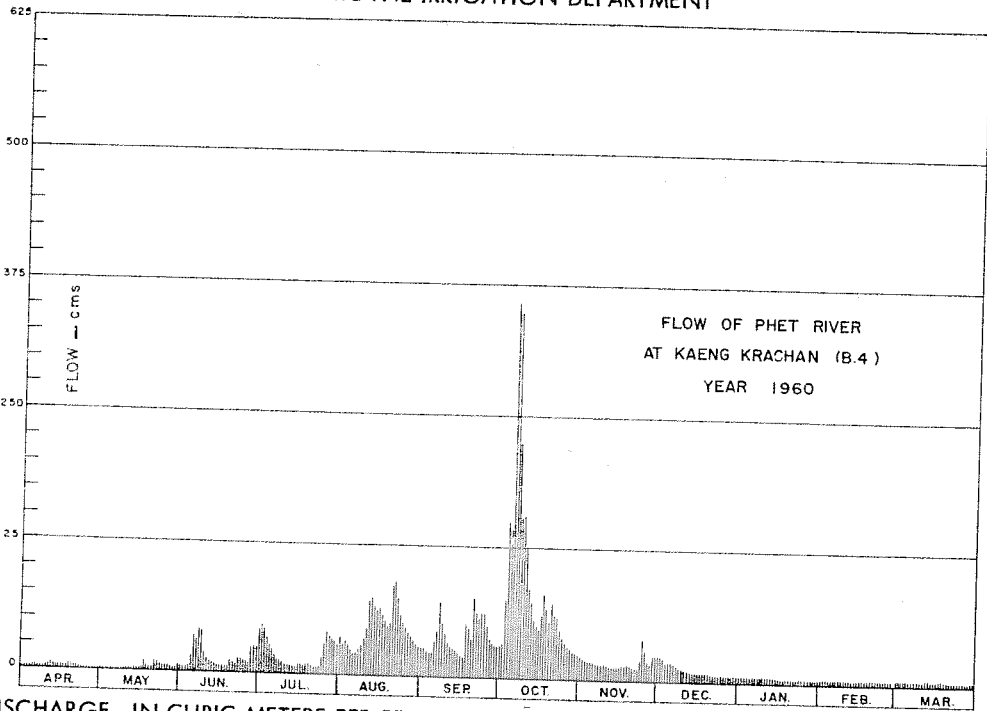
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960, period Jul. 31 - Mar., and measured at station B.3 (10 kilometers downstream) for Apr.1 - 20, and at B.5 (1 kilometer downstream) for Apr.21 - Jul.30. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41.80	48.69	48.92	49.66	50.40	50.23	50.30	50.08	50.12	49.66	49.57	49.60
2	.80	.68	.86	.73	.29	.24	.34	.06	.13	.66	.57	.61
3	.80	.74	.89	.72	.34	.17	.97	.03	.02	.65	.57	.60
4	.80	.71	.95	.52	.29	.12	51.88	.00	49.97	.64	.57	.61
5	.80	.69	49.26	.43	.21	.14	.78	49.99	50.03	.64	.56	.57
6	41.86	48.69	49.55	49.34	50.11	50.36	53.49	49.97	50.02	49.64	49.56	49.54
7	.83	.69	.47	.23	.11	.52	.42	.95	49.98	.64	.56	.53
8	.81	.69	.65	.15	.16	.94	52.41	.93	.91	.64	.56	.60
9	.81	.75	.63	.12	.27	.68	51.90	.92	.86	.64	.55	.58
10	.82	.76	.27	.07	.38	.52	.92	.92	.84	.63	.55	.56
11	41.89	48.75	49.09	49.04	50.57	50.36	51.49	49.91	49.81	49.63	49.54	49.55
12	.98	.72	.03	48.99	.92	.30	.15	.89	.80	.63	.54	.63
13	.90	.76	.01	.98	51.00	.22	50.94	.88	.78	.62	.54	.62
14	.86	.79	48.99	.96	50.91	.16	.77	.86	.77	.62	.54	.59
15	.86	.77	.95	.97	.82	.13	.64	.87	.76	.61	.54	.57
16	41.88	48.74	48.94	49.02	50.86	50.06	50.58	49.88	49.75	49.61	49.57	49.55
17	.84	.82	.95	.02	.78	.04	.78	.88	.74	.60	.61	.55
18	.84	.99	.93	48.99	.70	.66	51.06	.91	.73	.60	.59	.65
19	.96	.87	.93	49.00	.56	.60	50.80	.92	.73	.60	.57	.60
20	.93	.79	49.05	.02	.66	.41	.70	.86	.72	.60	.56	.55
21	48.84	48.85	48.98	49.00	51.13	51.01	50.96	49.85	49.72	49.60	49.55	49.52
22	.79	49.02	.99	48.94	.21	50.90	.82	.84	.71	.59	.56	.52
23	.75	.00	49.11	.95	50.96	.73	.76	.82	.70	.59	.54	.51
24	.74	48.91	.13	.96	.76	.82	.58	50.02	.70	.59	.54	.52
25	.73	.88	.08	49.22	.69	.82	.45	.46	.70	.59	.54	.50
26	48.72	48.91	49.05	49.50	50.60	50.58	50.37	50.11	49.69	49.58	49.53	49.49
27	.73	.90	.01	.65	.52	.45	.31	.00	.69	.58	.53	.49
28	.71	.86	.34	.60	.46	.35	.25	.00	.68	.58	.55	.48
29	.70	.82	.39	.55	.39	.31	.20	.12	.68	.57	.54	.48
30	.69	.80	.32	.52	.32	.31	.17	.13	.67	.57	.54	.48
31		.91		.43	.26		.13		.67			.48
Mean	44.15	48.80	49.12	49.23	50.57	50.44	51.04	49.97	49.81	49.61	49.55	49.55
Max.	41.98	49.02	49.65	49.73	51.21	51.01	53.49	50.46	50.13	49.66	49.61	49.65
Min.	48.69	48.68	48.86	48.94	50.11	50.04	50.13	49.82	49.67	49.57	49.53	49.48

WATER YEAR 1960 : Max. 53.49 m. Min. 48.68 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.80	1.00	6.20	42	36	28	31	21	23	6.20	4.40	5.00
2	1.80	1.00	4.50	46	30	28	33	20	23	6.20	4.40	5.20
3	1.80	2.15	5.25	45	33	25	73	19	18	6.00	4.40	5.00
4	1.80	1.65	7.25	34	30	23	151	17	16	5.80	4.40	5.20
5	1.80	1.00	19	29	27	24	142	17	19	5.80	4.20	4.40
6	3.00	1.00	35	24	22	34	359	16	18	5.80	4.20	3.80
7	2.40	1.00	31	18	22	43	348	16	17	5.80	4.20	3.60
8	2.00	1.00	41	14	25	71	209	15	14	5.80	4.20	5.00
9	2.00	2.30	40	13	30	53	153	15	13	5.80	4.00	4.60
10	2.20	2.45	20	11	35	43	155	15	12	5.60	4.00	4.20
11	3.60	2.30	12	10	46	34	115	14	11	5.60	3.80	4.00
12	6.76	1.85	10	8.65	69	31	87	14	10	5.60	3.80	5.60
13	3.80	2.45	9.35	8.30	75	27	71	13	9.80	5.40	3.80	5.40
14	3.00	2.85	8.65	7.60	69	25	59	13	9.45	5.40	3.80	4.80
15	3.00	2.60	7.25	7.95	62	23	50	13	9.10	5.20	3.80	4.40
16	3.40	2.15	6.90	9.70	65	20	47	13	8.75	5.20	4.40	4.00
17	2.60	3.50	7.25	9.70	60	19	60	13	8.40	5.00	5.20	4.00
18	2.60	8.65	6.55	8.65	54	52	80	14	8.05	5.00	4.80	6.00
19	6.02	4.75	6.55	9.00	46	48	61	15	8.05	5.00	4.40	5.00
20	4.91	2.85	11	9.70	52	37	54	13	7.70	5.00	4.20	4.00
21	4.00	4.25	8.30	9.00	85	76	72	12	7.35	5.00	4.00	3.40
22	2.85	9.70	8.65	6.90	91	68	62	12	7.35	4.80	4.20	3.40
23	2.30	9.00	13	7.25	72	56	58	11	7.00	4.80	3.80	3.20
24	2.15	5.85	14	7.60	58	62	47	18	7.00	4.80	3.80	3.40
25	2.00	5.00	12	17	53	62	39	40	7.00	4.80	3.80	3.00
26	1.85	5.85	11	32	48	47	34	22	6.80	4.60	3.60	2.80
27	2.00	5.50	9.35	41	43	39	31	17	6.80	4.60	3.60	2.80
28	1.65	4.50	24	38	40	33	29	17	6.60	4.60	4.00	2.60
29	1.50	3.50	26	35	35	31	26	23	6.60	4.60	4.60	2.60
30	1.00	3.00	23	34	32	31	25	23	6.40	4.40	4.40	2.60
31		5.85		29	29		23		6.40	4.40		2.60
Total	81.59	110.50	444.00	622.00	1,474	1,193	2,784	501	338.60	162.60	115.20	125.60
Mean	2.71	3.56	14.8	20.1	47.5	39.8	89.8	16.7	10.9	5.24	4.11	4.05
Max.	6.76	9.70	41	46	91	76	359	40	23	6.20	5.20	6.00
Min.	1.00	1.00	4.50	6.90	22	19	23	11	6.40	4.40	3.60	2.60
Runoff - mcm.	7.049	9.750	38.362	53.741	127.354	103.075	240.538	43.286	29.255	14.486	9.953	10.852

WATER YEAR 1960 : Max. 359 Min. 1.00 Mean 21.9 Annual Runoff 687.060 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	20.00	55.30	820				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
PHET RIVER BASIN

Phet River at Kaeng Krachan Damsite, Phetchaburi (B.4)

Location: Lat 12° - 54' - 44" N, Long 99° - 38' - 10" E, on right bank at Kaeng Krachan Damsite, Ban Khao Chao, 43 kilometers along the country road from Phet Kasem Highway at Tha Yang, Phetchaburi.

Drainage Area: 2,203 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +48.485 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: 1 kilometer downstream
Elevation: +66.904 m.(M.S.L.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 - 62

Rating Operation:

Period of Rating: 1960 - 62
Rated by Float: -
Rated by Current Meter: 1960 - 62

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

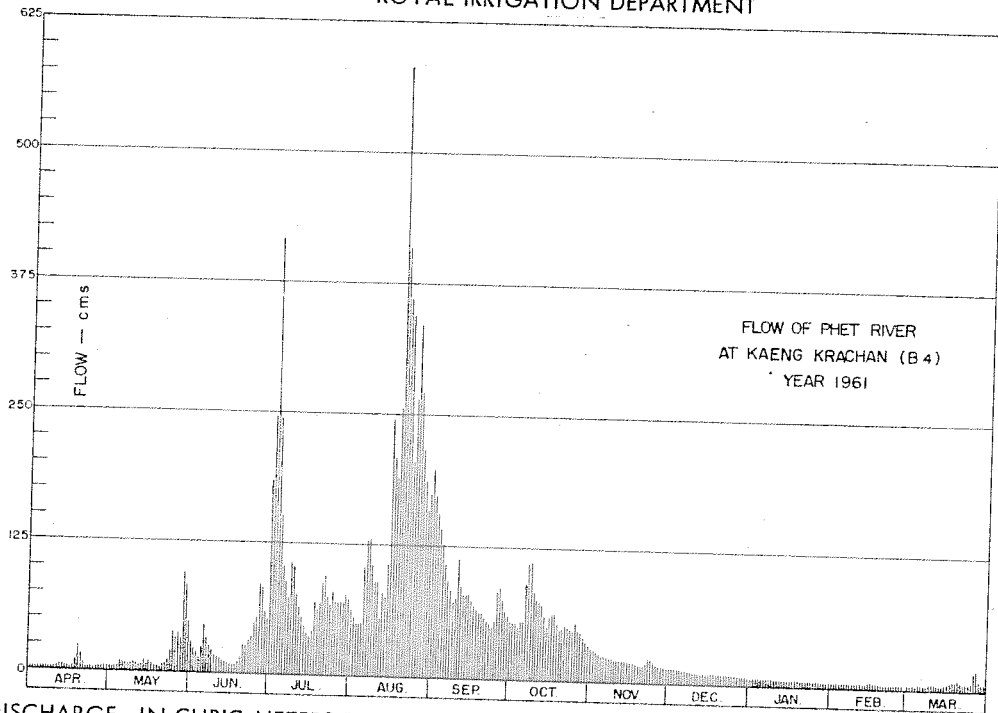
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	49.48	49.58	50.30	52.32	50.89	52.46	50.72	50.33	49.90	49.71	49.59	49.52
2	.48	.58	.12	.92	.78	.20	.74	.28	.90	.70	.59	.52
3	.48	.60	.01	54.27	.66	.02	.72	.24	.88	.70	.59	.53
4	.49	.65	49.92	52.88	.66	51.87	.67	.20	.88	.70	.59	.53
5	.50	.81	50.12	51.96	.68	.70	.75	.17	.87	.69	.58	.56
6	49.52	49.75	50.60	51.42	51.43	51.49	50.76	50.14	49.86	4.69	49.58	49.53
7	.52	.75	.37	.25	.72	.30	51.28	.13	.85	.68	.58	.53
8	.52	.71	.20	.05	.73	.16	.51	.11	.84	.68	.58	.54
9	.51	.72	.08	.47	.48	.05	.52	.09	.83	.68	.57	.60
10	.53	.77	49.98	.43	.26	.10	.26	.08	.82	.67	.57	.65
11	49.58	49.73	49.95	51.10	51.25	51.54	51.08	50.07	49.81	49.66	49.57	49.60
12	.57	.68	.91	50.91	.21	.34	.05	.06	.80	.66	.57	.56
13	.62	.74	.66	.75	.11	.23	.02	.04	.80	.66	.56	.55
14	.52	.63	.82	.62	.07	.12	50.82	.02	.80	.66	.56	.55
15	.54	.71	.79	.50	.47	.11	.69	.02	.79	.65	.58	.56
16	49.56	49.79	49.75	50.44	52.92	51.14	50.84	50.00	49.79	49.65	49.61	49.56
17	.58	.72	.74	.51	.57	.06	.88	49.99	.78	.65	.59	.64
18	.76	.65	.74	.98	.37	50.98	.88	.98	.77	.65	.58	.69
19	50.15	.61	.80	.85	53.01	.91	.73	.97	.77	.65	.56	.71
20	49.99	.74	.94	.99	55.39	.86	.62	.96	.76	.65	.54	.73
21	49.73	49.69	50.23	51.22	54.22	50.80	50.64	49.95	49.76	49.65	49.54	49.64
22	.64	.73	.20	.32	53.87	.75	.70	50.01	.78	.64	.54	.63
23	.58	.85	.34	.06	.75	.71	.68	.10	.77	.63	.54	.60
24	.55	50.02	.40	50.94	52.98	.65	.64	.10	.74	.62	.54	.59
25	.54	.46	.64	51.14	.92	.76	.62	.03	.74	.61	.54	.58
26	49.53	50.38	50.72	50.98	53.68	51.18	50.73	49.97	49.74	49.61	49.54	49.95
27	.54	.48	51.21	.99	.15	.23	.62	.95	.73	.60	.54	.99
28	.59	.36	.18	.98	52.64	.06	.60	.93	.72	.60	.53	.74
29	.65	51.32	50.83	.98	.35	50.92	.52	.92	.71	.60	.67	.67
30	.59	.18	.72	51.10	.06	.81	.44	.91	.71	.60	.62	.62
31		50.70		.04	.22		.39					.60
Mean	49.59	49.94	50.21	51.30	52.18	51.22	50.81	50.06	49.79	49.65	49.57	49.62
Max.	50.15	51.32	51.21	54.27	55.39	52.46	51.52	50.33	49.90	49.71	49.61	49.99
Min.	49.48	49.58	49.74	50.44	50.66	50.65	50.39	49.91	49.71	49.60	49.53	49.52

WATER YEAR 1961 : Max. 55.39 m. Min. 49.48 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.80	4.00	30	184	63	198	53	31	14	7.30	4.25	2.50
2	1.80	4.00	23	245	57	172	54	29	14	7.00	4.25	2.50
3	1.80	4.00	18	416	50	156	53	28	13	7.00	4.25	2.75
4	1.80	5.75	15	243	50	142	50	26	13	7.00	4.25	2.75
5	2.00	10	23	151	51	127	55	25	13	6.75	4.25	3.50
6	2.50	8.50	46	103	103	108	56	24	12	6.75	4.00	2.75
7	2.50	8.50	33	89	129	93	51	23	12	6.50	4.00	2.75
8	2.50	7.30	26	73	130	82	110	22	12	6.50	4.00	3.00
9	2.25	7.60	21	107	107	73	112	22	11	6.50	3.75	4.50
10	2.75	9.10	17	103	90	77	90	21	11	6.25	3.75	6.75
11	4.00	7.90	16	77	89	113	76	21	10	6.00	3.75	4.50
12	3.75	6.50	14	65	56	96	73	20	10	6.00	3.75	3.50
13	5.00	8.20	12	55	78	87	71	20	10	6.00	3.50	3.25
14	2.50	11	11	47	75	79	59	19	10	6.00	3.50	3.25
15	3.00	7.30	10	40	107	79	51	19	10	5.75	4.00	3.50
16	3.50	10	8.50	37	244	80	60	18	10	5.75	4.75	3.50
17	4.00	7.60	8.20	41	209	74	63	18	9.40	5.75	4.25	5.00
18	8.80	5.75	8.20	69	189	69	63	17	9.10	5.75	4.00	6.75
19	24	4.75	10	61	255	65	54	16	9.10	5.75	3.50	7.30
20	18	8.20	16	69	581	62	47	16	8.80	5.75	3.00	7.90
21	7.90	6.75	27	87	409	58	48	16	8.80	5.75	3.00	5.50
22	5.50	7.90	26	95	360	55	52	18	9.40	5.50	3.00	5.25
23	4.00	12	32	74	344	53	51	22	9.10	5.25	3.00	4.50
24	3.25	19	35	67	206	49	48	22	8.20	5.00	3.00	4.25
25	3.00	38	48	80	244	56	47	19	8.20	4.75	3.00	4.00
26	2.75	34	53	69	335	83	54	17	8.20	4.75	3.00	16
27	3.00	39	86	69	270	87	47	16	7.90	4.50	3.00	18
28	4.25	33	83	69	216	74	46	15	7.60	4.50	2.75	8.20
29	5.75	95	60	69	187	65	41	15	7.60	4.50		6.25
30	4.25	83	53	77	159	59	37	14	7.30	4.50		5.00
31		52		73	174		34		7.30	4.50		4.50
Total	141.90	565.60	868.90	3,104	5,617	2,671	1,846	609	311.00	179.55	102.50	163.65
Mean	4.73	18.2	29.0	100	181	89.0	59.0	20.3	10.0	5.79	3.66	5.28
Max.	24	95	86	416	581	198	112	31	14	7.30	4.75	18
Min.	1.80	4.00	8.20	37	50	49	34	14	7.30	4.50	2.75	2.50
Runoff - mcm.	12.260	48.858	75.073	268.186	485.309	230.774	159.494	52.618	26.870	15.513	8.856	14.139

WATER YEAR 1961 : Max. 581 Min. 1.80 Mean 44.3 Annual Runoff 1,397.953 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	09.00	56.11	691				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
PHET RIVER BASIN

Phet River at Kaeng Krachan Damsite, Phetchaburi (B.4)

Location: Lat 12°-54' - 44" N, Long 99°-38' - 10" E, on right bank at Kaeng Krachan Damsite, Ban Khao Chao, 43 kilometers along the country road from Phet Kasem Highway at Tha Yang, Phetchaburi.

Drainage Area: 2,203 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +48.485 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: 1 kilometer downstream
Elevation: +66.904 m.(M.S.L.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 - 62

Rating Operation:

Period of Rating: 1960 - 62

Rated by Float: -

Rated by Current Meter: 1960 - 62

Stability of Channel Regimes: Unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

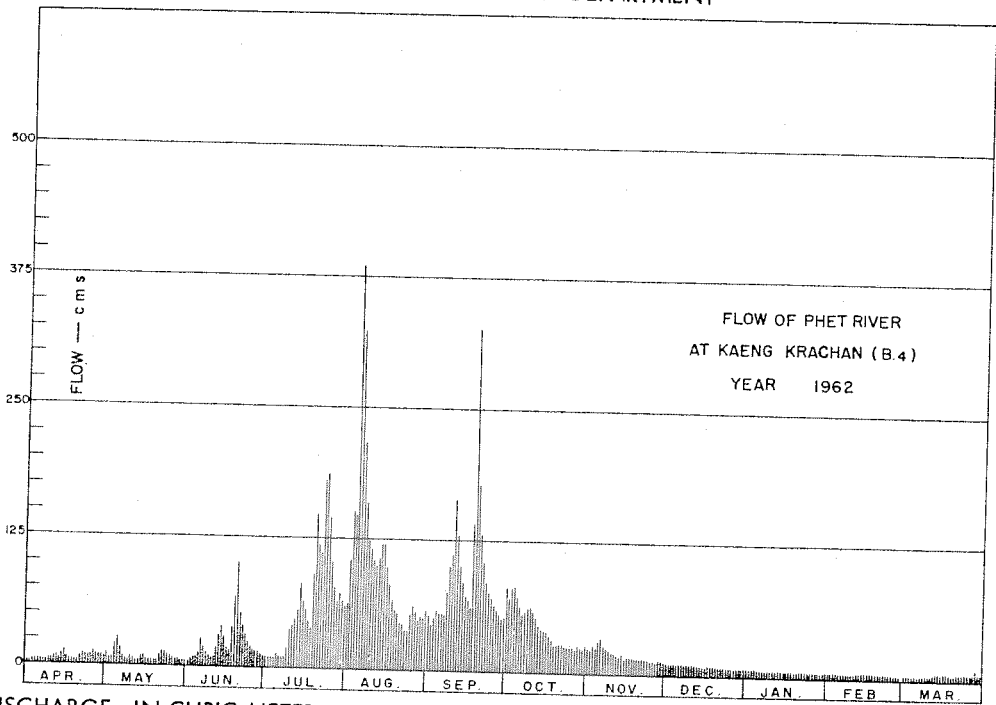
General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	49.58	50.10	49.63	49.81	50.88	50.58	50.87	50.08	49.76	49.68	49.62	49.57
2	.57	49.87	.67	.81	51.67	.44	.83	.06	.75	.68	.62	.57
3	.58	.87	.82	.80	.96	.56	.94	.16	.74	.68	.62	.57
4	.61	50.25	.83	.80	.97	.67	51.01	.15	.73	.68	.62	.57
5	.60	.44	.96	.89	53.84	.61	50.90	.26	.73	.68	.61	.57
6	49.56	50.16	50.29	49.85	53.39	50.63	50.78	50.29	49.72	49.68	49.61	49.56
7	.59	49.92	.13	.82	52.68	.56	.67	.16	.71	.67	.60	.56
8	.62	.82	49.93	.82	.06	.87	.67	.08	.71	.67	.60	.56
9	.71	.75	.84	50.07	51.61	51.23	.74	.04	.71	.67	.60	.56
10	.76	.89	.80	.52	.46	.40	.74	.01	.70	.66	.60	.56
11	49.83	49.86	49.83	50.60	51.31	52.05	50.68	49.98	49.70	49.66	49.60	49.57
12	.89	.76	50.10	.78	.29	51.62	.58	.95	.69	.66	.60	.61
13	.78	.75	.46	.69	.41	.21	.47	.94	.69	.66	.65	.63
14	50.05	.91	.69	51.04	.60	.00	.44	.92	.69	.65	.65	.63
15	.09	.93	.44	50.85	.50	50.88	.41	.90	.69	.65	.64	.61
16	49.85	49.79	50.20	50.74	51.30	50.85	50.36	49.89	49.69	49.65	49.65	49.68
17	.75	.77	.15	.57	.09	.74	.30	.88	.69	.65	.64	.64
18	.68	.74	.66	.45	50.89	51.38	.26	.86	.68	.65	.63	.60
19	.67	.71	.99	51.30	.74	53.49	.22	.85	.68	.65	.62	.58
20	.72	.77	51.43	52.03	.68	52.21	.23	.84	.68	.64	.59	.58
21	49.85	49.96	50.66	51.64	50.58	51.61	50.23	49.83	49.68	49.64	49.58	49.63
22	.97	50.06	.44	.58	.51	.32	.21	.82	.68	.64	.58	.61
23	.90	49.98	.29	52.40	.42	.09	.17	.81	.68	.64	.58	.63
24	.91	.93	.13	.35	.38	50.98	.13	.81	.68	.64	.58	.68
25	.94	.92	.01	51.97	.69	.89	.10	.80	.68	.63	.57	.62
26	50.04	49.83	49.96	51.47	50.74	50.78	50.08	49.79	49.68	49.63	49.57	49.58
27	49.95	.82	.93	.09	.63	.70	.07	.80	.68	.63	.57	.66
28	.90	.80	.90	50.90	.49	.62	.15	.83	.68	.63	.57	.77
29	.95	.76	.85	.98	.62	.59	.08	.82	.68	.62	.57	.74
30	.87	.71	.83	.86	.56	.54	.04	.78	.68	.62	.57	.71
31		.66		.78	.70		.16		.68	.62		.67
Mean	49.79	49.89	50.16	50.78	51.28	51.07	50.44	49.95	49.80	49.65	49.61	49.61
Max.	50.09	50.44	51.43	52.40	53.84	53.49	51.01	50.29	49.76	49.68	49.65	49.77
Min.	49.56	49.66	49.63	49.80	50.38	50.44	50.04	49.78	49.68	49.62	49.57	49.56

WATER YEAR 1962 : Max. 53.84 m. Min. 49.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.20	12	3.10	10	63	52	80	23	11	4.10	2.90	2.05
2	2.05	8.25	3.90	10	118	43	69	22	11	4.10	2.90	2.05
3	2.20	8.25	7.00	10	150	50	79	26	11	4.10	2.90	2.05
4	2.70	20	10	10	146	57	82	25	11	4.10	2.90	2.05
5	2.50	27	13	13	384	54	71	31	10	4.10	2.70	2.05
6	1.90	17	26	11	322	55	62	33	10	4.10	2.70	1.90
7	2.35	9.60	18	11	216	53	55	26	10	3.90	2.50	1.90
8	2.90	7.00	13	10	158	75	57	24	10	3.90	2.50	1.90
9	4.70	5.00	10	18	122	99	61	22	10	3.90	2.50	1.90
10	5.70	8.75	6.50	37	114	111	61	19	10	3.70	2.50	1.90
11	7.25	8.00	7.25	41	103	163	57	18	10	3.70	2.50	2.05
12	8.75	5.70	18	47	98	129	51	17	4.30	3.70	2.50	2.70
13	6.10	5.50	31	55	105	99	44	16	4.30	3.70	3.50	3.10
14	14	9.30	39	80	119	83	41	18	4.30	3.50	3.50	3.10
15	16	10	28	64	119	70	39	14	4.30	3.50	3.30	2.70
16	7.75	6.30	18	56	97	68	38	16	4.30	3.50	3.50	4.10
17	5.50	5.90	16	44	81	60	34	16	4.30	3.50	3.30	3.30
18	4.10	5.30	37	37	66	125	31	15	4.10	3.50	3.10	2.50
19	3.90	4.70	66	90	56	325	26	14	4.10	3.50	2.90	2.20
20	4.90	5.90	99	147	53	176	26	14	4.10	3.30	2.35	2.20
21	7.75	11	51	118	44	130	27	14	4.10	3.30	2.20	3.10
22	11	14	39	110	43	103	26	14	4.10	3.30	2.20	2.70
23	9.00	13	31	179	37	84	25	13	4.10	3.30	2.20	3.10
24	9.30	11	24	186	37	75	24	13	4.10	3.30	2.20	4.10
25	10	10	19	143	53	69	24	12	4.10	3.10	2.05	2.90
26	13	7.25	16	99	61	63	24	12	4.10	3.10	2.05	2.20
27	10	7.00	15	77	54	58	22	11	4.10	3.10	2.05	3.70
28	9.00	6.50	14	63	47	53	26	13	4.10	3.10	2.05	5.90
29	10	5.70	12	72	51	50	23	13	4.10	2.90	2.90	5.30
30	8.25	4.70	11	66	50	51	22	12	4.10	2.90	4.70	4.70
31		3.70		60	57		26		4.10	2.90		3.90
Total	204.75	283.30	701.75	1,974	3,224	2,683	1,333	536	197.20	109.70	74.45	89.30
Mean	6.82	9.14	23.4	63.7	104	89.4	43.0	17.9	6.36	3.52	2.66	2.88
Max.	16	27	99	186	384	325	82	33	11	4.10	3.50	5.90
Min.	1.90	3.70	3.10	10	37	43	22	11	4.10	2.90	2.05	1.90
Runoff - mcm.	17.690	24.477	60.631	170.554	278.554	231.811	115.171	46.310	17.038	9.478	6.432	7.715

WATER YEAR 1962 : Max 384 Min. 1.90 Mean 31.3 Annual Runoff 985.863 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 5	08.00	54.47	494				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
KHLONG U-TA-PHAO RIVER BASIN

Khlong Wat at Ton Nga Chang, Songkhla (X.14)

Location: Lat 6°-55' - 00" N, Long 100°-25' - 00" E, on left bank at Ton Nga Chang Fall, 5 kilometer from Phet Kasem Highway at Ban Tha Rae, which is 15 kilometers from Amphoe Hat Yai, Songkhla.

Drainage Area: 71 sq.km. referred to GSGS Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +109.50 m.(A.D.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.
Elevation: +114.958 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.
Rated by float: -
Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

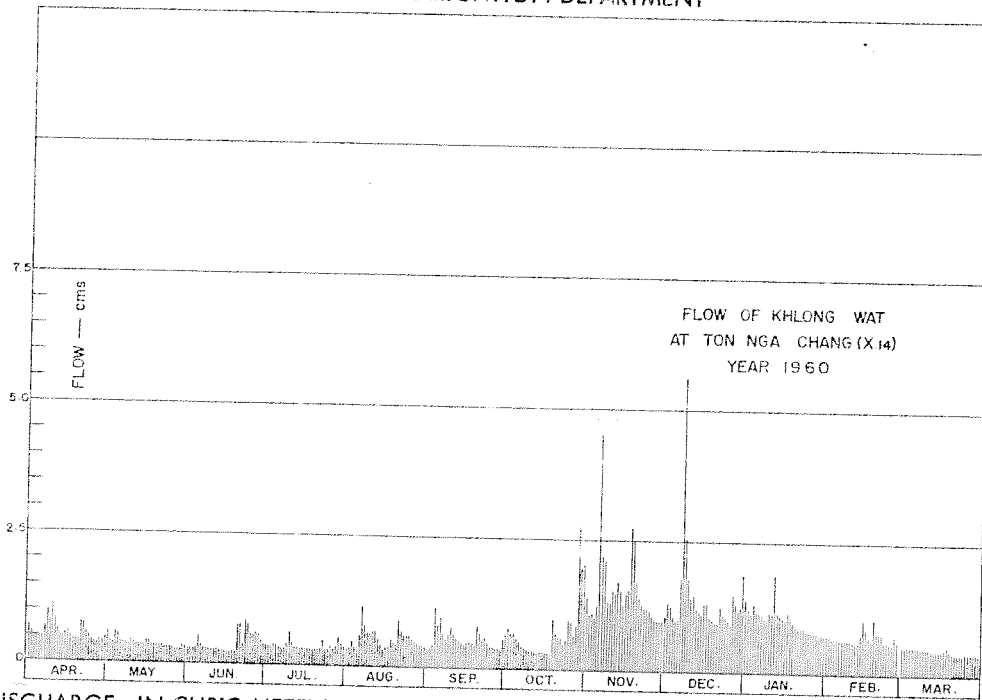
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.77	109.75	109.66	109.69	109.67	109.69	109.76	109.91	109.85	109.91	109.78	109.73
2	.74	.71	.66	.69	.68	.69	.79	.85	.90	.88	.78	.75
3	.72	.70	.66	.68	.72	.71	.77	.86	.89	.86	.77	.75
4	.72	.75	.66	.70	.69	.87	.77	.84	.85	.90	.77	.75
5	.72	.74	.73	.70	.69	.80	.74	.89	.83	.87	.77	.75
6	109.72	109.71	109.69	109.69	109.75	109.83	109.73	110.22	109.84	109.87	109.76	109.75
7	.78	.70	.66	.67	.88	.76	.71	.01	.96	.86	.76	.72
8	.84	.70	.66	.67	.80	.73	.70	.00	110.30	.85	.76	.72
9	.79	.69	.65	.69	.76	.76	.69	109.90	.65	.84	.76	.72
10	.86	.71	.65	.76	.76	.79	.68	.90	109.96	.87	.76	.72
11	109.81	109.70	109.65	109.71	109.77	109.76	109.68	109.93	109.91	109.86	109.75	109.72
12	.76	.70	.65	.68	.77	.74	.67	.92	.96	.96	.75	.71
13	.74	.69	.65	.68	.73	.73	.67	.95	.88	.87	.75	.71
14	.72	.69	.65	.67	.71	.72	.67	.93	.87	.86	.79	.71
15	.74	.68	.64	.67	.67	.71	.67	.89	.86	.85	.85	.71
16	109.75	109.71	109.64	109.67	109.69	109.72	109.67	109.92	109.90	109.84	109.81	109.71
17	.73	.71	.64	.67	.69	.72	.67	.93	.90	.87	.77	.72
18	.71	.69	.64	.66	.73	.72	.67	110.07	.85	.85	.76	.75
19	.71	.68	.64	.66	.72	.71	.83	.64	.84	.83	.85	.71
20	.71	.68	.79	.67	.71	.80	.77	109.95	.83	.82	.79	.70
21	109.79	109.68	109.79	109.66	109.82	109.77	109.75	109.91	109.82	109.81	109.76	109.76
22	.79	.68	.69	.67	.77	.73	.75	.89	.89	.81	.76	.69
23	.74	.67	.81	.72	.75	.74	.72	.88	.86	.81	.75	.69
24	.73	.67	.79	.67	.75	.72	.74	.88	.85	.80	.75	.69
25	.71	.67	.75	.66	.75	.70	.83	.87	.84	.80	.74	.70
26	109.70	109.66	109.74	109.69	109.73	109.70	109.82	109.85	109.82	109.80	109.74	109.70
27	.69	.65	.76	.66	.72	.69	.76	.84	.93	.79	.78	.70
28	.71	.65	.76	.69	.71	.69	.81	.83	.90	.79	.75	.69
29	.70	.65	.72	.75	.70	.68	110.07	.83	.87	.78	.78	.70
30	.72	.68	.70	.71	.70	.74	109.98	.83	.89	.78	.78	.69
31		.67		.69	.69		.99	.83	.97	.78		.68
Mean	109.74	109.69	109.69	109.68	109.73	109.74	109.76	109.92	109.90	109.84	109.77	109.71
Max.	109.86	109.75	109.81	109.76	109.88	109.87	110.07	110.22	110.30	109.96	109.85	109.73
Min.	109.69	109.65	109.64	109.66	109.67	109.68	109.67	109.83	109.82	109.78	109.74	109.68

WATER YEAR 1960 : Max. 110.30 m. Min. 109.64 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	0.60	0.30	0.37	0.32	0.37	0.64	1.38	1.05	1.38	0.72	0.52
2	0.56	0.44	0.30	0.37	0.35	0.37	0.76	1.05	1.30	1.20	0.72	0.52
3	0.48	0.40	0.30	0.35	0.48	0.44	0.68	1.10	1.25	1.10	0.68	0.52
4	0.48	0.60	0.30	0.40	0.37	1.15	0.68	1.00	1.05	1.30	0.68	0.52
5	0.49	0.56	0.52	0.40	0.37	0.80	0.56	1.25	0.95	1.15	0.68	0.52
6	0.48	0.44	0.37	0.35	0.60	0.95	0.52	4.48	1.00	1.15	0.64	0.52
7	0.69	0.40	0.30	0.32	1.15	0.64	0.44	2.19	1.78	1.10	0.64	0.48
8	1.00	0.40	0.30	0.32	0.60	0.52	0.40	2.10	5.60	1.05	0.64	0.48
9	0.76	0.37	0.27	0.37	0.64	0.64	0.37	1.30	2.55	1.00	0.64	0.48
10	1.10	0.44	0.27	0.64	0.64	0.76	0.35	1.30	1.78	1.15	0.64	0.48
11	0.85	0.40	0.27	0.44	0.60	0.64	0.35	1.54	1.38	1.10	0.60	0.48
12	0.64	0.40	0.27	0.35	0.68	0.56	0.32	1.46	1.46	1.78	0.60	0.44
13	0.56	0.37	0.27	0.35	0.52	0.52	0.32	1.70	1.20	1.15	0.60	0.44
14	0.48	0.37	0.27	0.32	0.44	0.48	0.32	1.54	1.15	1.10	0.76	0.44
15	0.56	0.35	0.24	0.32	0.32	0.44	0.32	1.25	1.10	1.05	1.05	0.44
16	0.60	0.44	0.24	0.32	0.37	0.48	0.32	1.46	1.30	1.00	0.85	0.44
17	0.52	0.44	0.24	0.32	0.37	0.48	0.32	1.54	1.30	1.15	0.68	0.48
18	0.44	0.37	0.24	0.30	0.52	0.48	0.32	2.73	1.05	1.05	0.64	0.52
19	0.44	0.35	0.24	0.30	0.48	0.44	0.95	2.46	1.00	0.95	1.05	0.44
20	0.44	0.35	0.76	0.32	0.44	0.80	0.68	1.70	0.95	0.90	0.76	0.40
21	0.76	0.35	0.76	0.30	0.90	0.68	0.60	1.38	0.90	0.85	0.76	0.40
22	0.76	0.35	0.37	0.32	0.68	0.52	0.60	1.25	1.25	0.85	0.76	0.37
23	0.56	0.32	0.85	0.48	0.60	0.56	0.48	1.20	1.10	0.85	0.60	0.37
24	0.52	0.32	0.76	0.32	0.60	0.48	0.56	1.20	1.05	0.80	0.60	0.37
25	0.44	0.32	0.60	0.30	0.60	0.40	0.95	1.15	1.00	0.80	0.56	0.40
26	0.40	0.30	0.56	0.37	0.52	0.40	0.90	1.05	0.90	0.80	0.56	0.40
27	0.37	0.27	0.64	0.32	0.48	0.37	0.64	1.00	1.46	0.76	0.72	0.40
28	0.44	0.27	0.64	0.37	0.44	0.37	0.85	0.95	1.30	0.76	0.60	0.37
29	0.40	0.27	0.48	0.52	0.40	0.35	2.73	0.95	1.15	0.72	0.72	0.40
30	0.48	0.35	0.40	0.44	0.40	0.56	1.94	0.95	1.25	0.72	0.72	0.37
31		0.32		0.37	0.37		2.02		1.86	0.72		0.35
Total	17.36	11.93	12.33	11.37	16.53	16.65	21.89	45.61	43.42	31.44	19.43	13.76
Mean	0.58	0.38	0.41	0.36	0.53	0.55	0.71	1.52	1.40	1.01	0.69	0.44
Max.	1.10	0.60	0.85	0.64	1.15	1.15	2.73	4.48	5.60	1.78	1.05	0.52
Min.	0.37	0.27	0.24	0.30	0.32	0.35	0.32	0.95	0.90	0.72	0.56	0.35
Runoff - mcm.	1.500	1.051	1.065	0.980	1.428	1.458	1.891	3.941	3.751	2.716	1.679	1.189

WATER YEAR 1960 : Max. 5.60 Min. 0.24 Mean 0.72 Annual Runoff 22.610 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 8	06.00	110.46	0.32				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
KHLONG U-TA-PHAO RIVER BASIN

Khlung Wat at Ton Nga Chang, Songkhla (X.14)

Location: Lat $6^{\circ} - 55' - 00''$ N, Long $100^{\circ} - 25' - 00''$ E, on left bank at Ton Nga Chang Fall, 5 kilometers from Phet Kasem Highway at Ban Tha Rae, which is 15 kilometers from Amphoe Hat Vai, Songkhla.

Drainage Area: 71 sq.km. referred to GSGS Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +109.50 m.(A.D.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.

Elevation: +114.958 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.

Rated by Float: -

Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

Overbank Flow Conditions: No overbank flow.

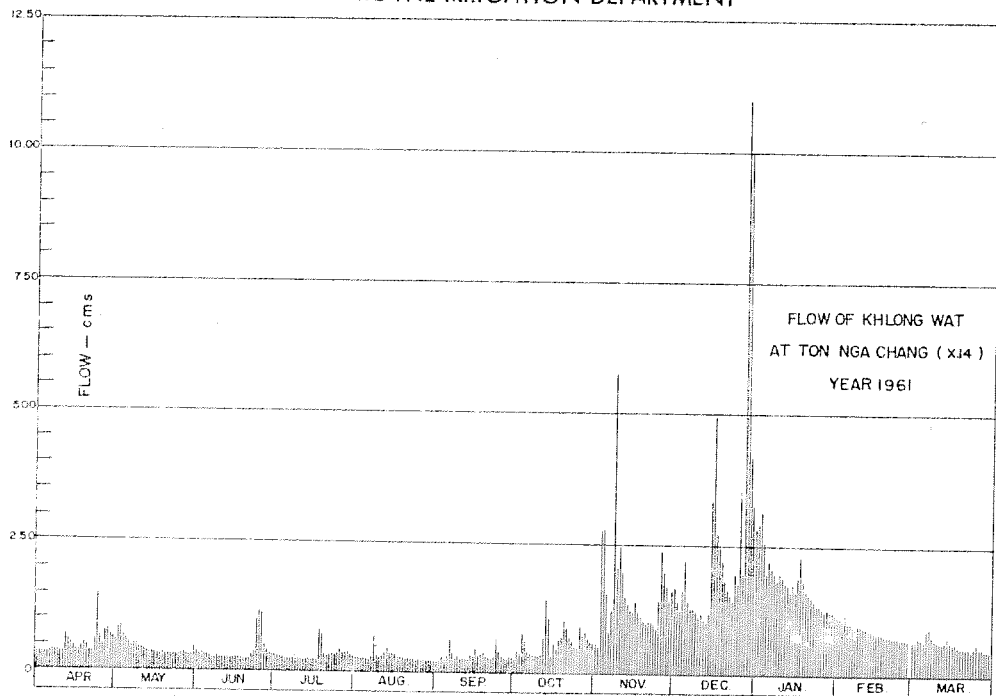
General Description: Records good. The data presented is made by discharge measurements during 1961. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.68	109.75	109.70	109.68	109.66	109.63	109.65	105.75	109.96	110.10	109.87	109.77
2	.68	.81	.68	.67	.66	.63	.71	.74	.92	.11	.87	.77
3	.68	.82	.69	.66	.65	.66	.70	.91	.89	.13	.86	.79
4	.68	.77	.67	.66	.65	.64	.80	110.21	.95	.07	.88	.78
5	.68	.76	.68	.65	.65	.68	.76	109.94	110.03	.00	.85	.77
6	109.69	109.74	109.66	109.65	109.64	109.76	109.71	109.81	109.92	110.03	109.85	109.82
7	.69	.73	.65	.65	.66	.70	.70	.89	.90	.01	.84	.83
8	.69	.74	.65	.65	.78	.66	.69	110.23	.90	.00	.84	.80
9	.69	.74	.66	.65	.68	.68	.69	.01	.89	109.98	.84	.78
10	.68	.72	.65	.65	.66	.65	.68	.06	.87	110.00	.84	.77
11	109.68	109.71	109.65	109.64	109.68	109.65	109.70	110.00	109.88	109.99	109.83	109.76
12	.78	.71	.65	.64	.70	.65	.78	109.93	.86	.97	.83	.76
13	.75	.70	.65	.64	.72	.65	.92	.91	.85	.97	.82	.77
14	.74	.69	.64	.64	.70	.68	.86	.89	.88	.95	.82	.79
15	.72	.69	.65	.64	.69	.67	.68	.88	110.13	.97	.81	.77
16	109.70	109.69	109.65	109.64	109.69	109.72	109.75	109.92	110.23	109.95	109.81	109.76
17	.70	.68	.65	.63	.67	.68	.73	.89	.09	.99	.81	.76
18	.73	.68	.65	.81	.66	.69	.77	.87	.06	110.04	.81	.75
19	.74	.69	.64	.79	.66	.71	.78	.85	.03	109.98	.80	.74
20	.73	.68	.64	.69	.65	.67	.85	.84	109.98	.95	.80	.74
21	109.70	109.68	109.65	109.67	109.65	109.66	109.82	109.85	109.95	109.94	109.80	109.74
22	.69	.67	.68	.68	.65	.65	.78	.85	.94	.93	.79	.74
23	.75	.67	.70	.69	.65	.67	.76	.84	.92	.92	.79	.73
24	.93	.67	.85	.68	.64	.77	.74	.82	110.00	.91	.79	.74
25	.77	.67	.88	.69	.64	.71	.73	.92	109.97	.91	.79	.76
26	109.75	109.68	109.87	109.71	109.64	109.68	109.83	110.05	110.14	109.90	109.78	109.74
27	.80	.69	.74	.69	.64	.66	.79	.80	.00	.89	.78	.74
28	.81	.68	.71	.70	.64	.65	.81	109.96	.46	.90	.78	.73
29	.78	.67	.69	.70	.64	.67	.78	.92	.44	.89	.73	.73
30	.77	.67	.68	.68	.63	.67	.76	.95	.22	.89	.73	.73
31		.73		.67	.63		.75		.14	.88		.73
Mean	109.73	109.71	109.69	109.67	109.66	109.67	109.76	109.92	110.01	109.97	109.82	109.76
Max.	109.81	109.82	109.88	109.81	109.78	109.77	109.92	110.23	110.46	110.13	109.88	109.83
Min.	109.68	109.67	109.64	109.63	109.63	109.63	109.65	109.74	109.85	109.88	109.78	109.73

WATER YEAR 1961 : Max. 110.46 m. Min. 109.63 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.34	0.59	0.38	0.34	0.30	0.23	0.27	0.59	1.68	2.80	1.12	0.67
2	0.34	0.81	0.34	0.32	0.30	0.23	0.42	0.53	1.41	2.91	1.12	0.67
3	0.34	0.86	0.36	0.30	0.27	0.30	0.38	2.78	1.23	3.14	1.07	0.74
4	0.34	0.67	0.32	0.30	0.27	0.25	0.76	4.79	1.61	2.54	1.18	0.70
5	0.34	0.63	0.34	0.27	0.27	0.34	0.63	1.55	2.20	1.95	1.02	0.67
6	0.36	0.53	0.30	0.27	0.25	0.63	0.42	0.81	1.41	2.20	1.02	0.86
7	0.36	0.49	0.27	0.27	0.30	0.38	0.38	1.23	1.28	2.03	0.97	0.92
8	0.36	0.53	0.27	0.27	0.70	0.30	0.36	5.76	1.28	1.95	0.97	0.76
9	0.36	0.53	0.30	0.27	0.34	0.34	0.36	2.03	1.23	1.82	0.97	0.70
10	0.34	0.46	0.27	0.27	0.30	0.27	0.34	2.46	1.12	1.95	0.97	0.67
11	0.34	0.42	0.27	0.25	0.34	0.27	0.38	1.95	1.18	1.88	0.92	0.63
12	0.70	0.42	0.27	0.25	0.38	0.27	0.70	1.48	1.07	1.75	0.92	0.63
13	0.59	0.38	0.27	0.25	0.46	0.27	1.41	1.35	1.02	1.75	0.86	0.67
14	0.53	0.36	0.25	0.25	0.38	0.34	1.07	1.23	1.18	1.61	0.86	0.74
15	0.46	0.36	0.27	0.25	0.36	0.32	0.34	1.18	3.34	1.75	0.81	0.67
16	0.38	0.36	0.27	0.25	0.36	0.46	0.59	1.41	4.97	1.61	0.81	0.63
17	0.38	0.34	0.27	0.23	0.32	0.34	0.49	1.23	2.71	1.88	0.81	0.63
18	0.49	0.34	0.27	0.81	0.30	0.36	0.67	1.12	2.46	2.29	0.81	0.59
19	0.53	0.36	0.25	0.74	0.30	0.42	0.70	1.02	2.20	1.82	0.76	0.53
20	0.49	0.34	0.25	0.36	0.27	0.32	1.02	0.97	1.82	1.61	0.76	0.53
21	0.38	0.34	0.27	0.32	0.27	0.30	0.86	1.02	1.61	1.55	0.76	0.53
22	0.36	0.32	0.34	0.34	0.27	0.27	0.70	1.02	1.55	1.48	0.74	0.53
23	0.59	0.32	0.38	0.36	0.27	0.32	0.63	0.97	1.44	1.41	0.74	0.49
24	1.48	0.32	1.02	0.34	0.25	0.67	0.53	0.86	1.95	1.35	0.74	0.53
25	0.67	0.32	1.18	0.36	0.25	0.42	0.49	1.41	1.75	1.35	0.74	0.63
26	0.49	0.34	1.12	0.42	0.25	0.34	0.92	2.37	3.55	1.28	0.70	0.53
27	0.76	0.36	0.53	0.36	0.25	0.30	0.74	1.95	1.94	1.23	0.70	0.53
28	0.81	0.34	0.42	0.38	0.25	0.27	0.81	1.68	11	1.28	0.70	0.49
29	0.70	0.32	0.36	0.38	0.25	0.32	0.70	1.41	10	1.23	0.70	0.49
30	0.67	0.32	0.34	0.34	0.23	0.32	0.63	1.61	4.16	1.23	0.70	0.49
31		0.49		0.32	0.23		0.59		3.25	1.18		0.49
Total	15.28	13.57	11.75	10.44	9.54	10.17	19.29	49.77	78.57	55.81	24.55	19.34
Mean	0.51	0.44	0.39	0.34	0.31	0.34	0.62	1.66	2.53	1.80	0.88	0.62
Max.	0.81	0.86	1.18	0.81	0.70	0.67	1.41	5.76	11	3.14	1.18	0.92
Min.	0.34	0.32	0.25	0.23	0.23	0.23	0.27	0.53	1.02	1.18	0.70	0.49
Runoff - mcm.	1.320	1.172	1.015	0.902	0.824	0.879	1.667	4.300	6.788	4.822	2.121	1.671

WATER YEAR 1961 : Max. 11 Min. 0.23 Mean 0.87 Annual Runoff 27.482 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 28	18.00	111.16	31				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
KHLONG U-TA-PHAO RIVER BASIN

Khlung Wat at Ton Nga Chang, Songkhla(X.14)

Location: Lat $6^{\circ} - 55' - 00''$ N, Long $100^{\circ} - 25' - 00''$ E, on left bank at Ton Nga Chang Fall, 5 kilometers from Phet Kasem Highway at Ban Tha Rae, which is 15 kilometers from Amphoe Hat Yai, Songkhla.

Drainage Area: 71 sq.km. referred to GSGS Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +109.50 m.(A.D.)

Bench Mark: B.M. - H.S./R.I.D.

Location: On left bank near the gage site.

Elevation: +114.958 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date

Rated by Float: -

Rated by Current Meter: 1954 to date

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to its stability.

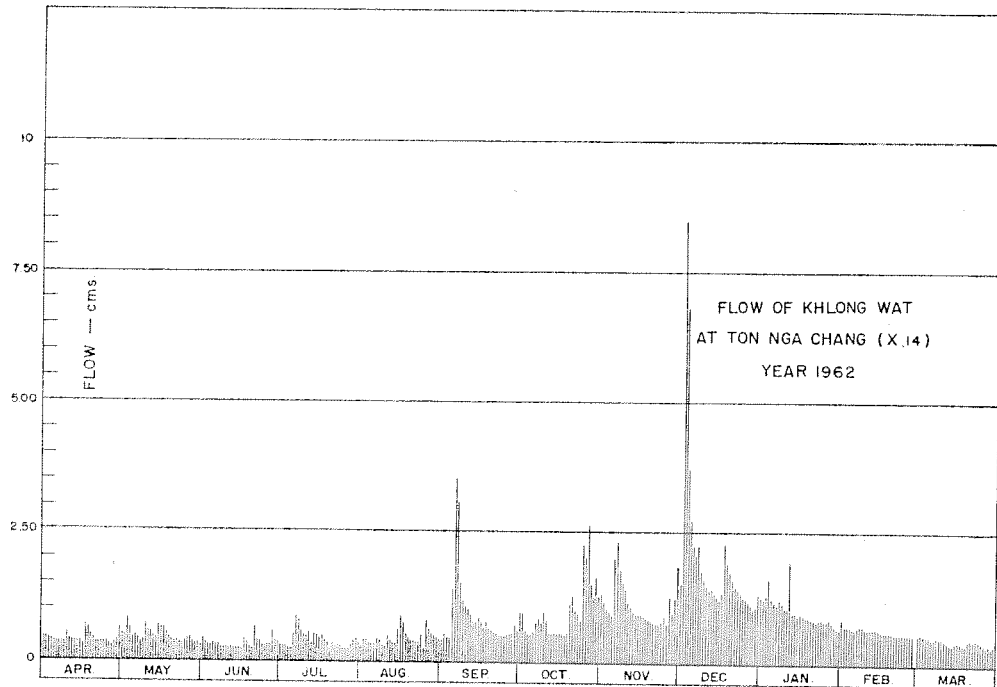
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1962. No state diversions above gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.72	109.75	109.73	109.68	109.68	109.72	109.86	109.93	109.96	109.92	109.83	109.75
2	.72	.74	.70	.68	.72	.75	.78	.90	110.62	.91	.80	.76
3	.71	.82	.68	.67	.72	.73	.77	.87	.50	.93	.80	.75
4	.71	.78	.68	.66	.69	.73	.75	.85	.23	.97	.80	.74
5	.70	.73	.69	.66	.69	.94	.75	.84	.12	.92	.79	.74
6	109.70	109.74	109.68	109.75	109.69	110.21	109.77	110.03	110.06	109.90	109.79	109.73
7	.70	.72	.67	.84	.72	.16	.81	.07	.04	.89	.80	.73
8	.70	.70	.66	.82	.72	109.96	.83	.00	.06	.91	.80	.74
9	.70	.71	.66	.77	.68	.91	.81	109.96	.00	.90	.80	.73
10	.75	.80	.66	.74	.67	.88	.78	.94	109.97	.88	.79	.73
11	109.71	109.76	109.66	109.74	109.75	109.87	109.82	109.90	109.96	109.88	109.79	109.72
12	.70	.76	.66	.76	.71	.84	.76	.88	.94	.86	.79	.71
13	.70	.73	.65	.70	.70	.81	.75	.86	.94	.86	.79	.70
14	.70	.72	.65	.75	.70	.81	.76	.85	.93	.86	.79	.70
15	.70	.80	.65	.74	.78	.83	.75	.85	.92	.85	.78	.71
16	109.69	109.78	109.65	109.73	109.84	109.81	109.76	109.85	109.91	109.86	109.77	109.71
17	.80	.78	.72	.74	.81	.79	.75	.84	.94	.85	.77	.71
18	.78	.75	.70	.71	.75	.81	.74	.83	110.07	.84	.77	.70
19	.74	.72	.66	.70	.73	.78	.76	.83	.02	.84	.77	.70
20	.72	.71	.65	.66	.71	.77	.90	.82	.00	.83	.77	.73
21	109.70	109.70	109.79	109.70	109.71	109.76	109.92	109.81	109.97	109.83	109.75	109.73
22	.69	.71	.71	.68	.70	.76	.86	.81	.95	.82	.76	.72
23	.69	.70	.69	.68	.71	.75	.85	.81	.94	.83	.76	.72
24	.69	.69	.67	.67	.75	.75	.82	.83	.93	.83	.76	.71
25	.69	.71	.67	.66	.92	.74	110.06	.85	.92	.82	.76	.71
26	109.68	109.72	109.68	109.66	109.82	109.75	110.03	109.81	109.91	109.83	109.76	109.70
27	.67	.73	.68	.66	.78	.75	.11	.92	.90	.83	.76	.68
28	.69	.69	.77	.69	.75	.76	109.96	.86	.89	.81	.75	.69
29	.71	.69	.71	.72	.74	.80	.92	.92	.88	.80	.68	.68
30	.78	.69	.69	.73	.73	.77	.98	.98	.89	.79	.69	.69
31		.68		.70	.72		.92		.93	.79		.69
Mean	109.71	109.73	109.68	109.71	109.73	109.82	109.84	109.88	110.01	109.86	109.78	109.72
Max.	109.80	109.82	109.79	109.84	109.92	110.21	110.11	110.07	110.62	109.97	109.83	109.76
Min.	109.67	109.68	109.65	109.66	109.67	109.72	109.74	109.81	109.68	109.79	109.75	109.68

WATER YEAR 1962 : Max. 110.62 m. Min. 109.66 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.45	0.55	0.48	0.33	0.33	0.45	0.98	1.35	1.54	1.29	0.85	0.55
2	0.45	0.52	0.38	0.33	0.45	0.55	0.98	1.16	8.48	1.22	0.72	0.58
3	0.41	0.81	0.33	0.31	0.45	0.48	0.62	1.03	6.82	1.35	0.72	0.55
4	0.41	0.65	0.33	0.28	0.36	0.48	0.55	0.94	3.72	1.61	0.72	0.52
5	0.38	0.48	0.36	0.28	0.36	0.42	0.55	0.90	2.73	1.29	0.69	0.52
6	0.38	0.52	0.33	0.55	0.36	3.52	0.62	2.03	2.26	1.16	0.69	0.48
7	0.38	0.45	0.31	0.90	0.45	3.08	0.76	2.33	2.10	1.12	0.72	0.48
8	0.38	0.38	0.28	0.81	0.45	1.54	0.85	1.80	2.26	1.22	0.72	0.52
9	0.38	0.41	0.28	0.62	0.33	1.22	0.76	1.54	1.80	1.16	0.72	0.48
10	0.55	0.72	0.28	0.52	0.31	1.07	0.98	1.42	1.61	1.07	0.69	0.48
11	0.41	0.58	0.28	0.52	0.55	1.05	0.81	1.16	1.54	1.07	0.69	0.45
12	0.38	0.58	0.28	0.58	0.41	0.90	0.58	1.07	1.42	0.98	0.69	0.41
13	0.38	0.48	0.26	0.38	0.38	0.76	0.55	0.98	1.42	0.98	0.69	0.38
14	0.38	0.45	0.26	0.55	0.38	0.76	0.58	0.94	1.35	0.98	0.69	0.38
15	0.38	0.72	0.26	0.52	0.65	0.85	0.55	0.94	1.29	0.94	0.65	0.41
16	0.36	0.65	0.26	0.48	0.90	0.76	0.58	0.94	1.22	0.98	0.62	0.41
17	0.72	0.65	0.45	0.52	0.76	0.69	0.55	0.90	1.42	0.94	0.62	0.41
18	0.65	0.55	0.38	0.41	0.55	0.76	0.52	0.85	2.33	0.90	0.62	0.38
19	0.52	0.45	0.28	0.38	0.48	0.65	0.58	0.85	1.95	0.90	0.62	0.38
20	0.45	0.41	0.26	0.28	0.41	0.62	1.16	0.81	1.80	0.85	0.62	0.48
21	0.38	0.38	0.69	0.38	0.41	0.58	1.29	0.76	1.61	0.85	0.58	0.48
22	0.36	0.41	0.41	0.33	0.38	0.58	0.98	0.76	1.48	0.81	0.58	0.45
23	0.36	0.38	0.36	0.33	0.41	0.55	0.94	0.76	1.42	0.85	0.58	0.45
24	0.36	0.36	0.31	0.31	0.55	0.52	0.81	0.85	1.35	0.85	0.58	0.41
25	0.36	0.41	0.31	0.28	1.29	0.52	2.26	0.94	1.29	0.81	0.58	0.41
26	0.33	0.45	0.33	0.28	0.81	0.55	2.03	0.76	1.22	0.85	0.58	0.38
27	0.31	0.48	0.33	0.28	0.65	0.55	2.65	1.29	1.16	0.85	0.58	0.33
28	0.36	0.36	0.62	0.36	0.55	0.58	1.54	0.98	1.12	0.76	0.55	0.36
29	0.41	0.36	0.41	0.45	0.52	0.72	1.29	1.29	1.07	0.72	0.69	0.33
30	0.65	0.36	0.36	0.48	0.48	0.62	1.67	1.88	1.12	0.69	0.69	0.36
31		0.33		0.38	0.45		1.29		1.35	0.69		0.36
Total	12.68	15.29	10.46	13.41	14.82	26.36	30.86	34.21	63.25	31.74	18.36	13.57
Mean	0.42	0.49	0.35	0.43	0.48	0.88	0.99	1.14	2.04	1.14	0.65	0.44
Max.	0.72	0.81	0.69	0.90	1.29	3.52	2.65	2.33	8.48	1.61	0.85	0.58
Min.	0.31	0.33	0.26	0.28	0.31	0.45	0.52	0.76	1.07	0.69	0.55	0.33
Runoff - ccm.	1.095	1.321	0.904	1.159	1.280	2.277	2.666	2.956	5.465	2.742	1.586	1.172

WATER YEAR 1962 : Max. 8.48 Min. 0.26 Mean 0.78 Annual Runoff 24.625 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 2	23.00	111.15	17				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
KHLONG DUSON RIVER BASIN

Khlong Duson at Thung Nui, Satun (X.16A)

Location: Lat 06° - 48' - 00" N, Long 100° - 07' - 00" E, on right bank 8 kilometers along the local road to Pa - nun Fall at Ban Thung Nui on the country road, Satun - Khuan Niang Railway Station, Satun.

Drainage Area: 58 sq.km. referred to GSGS 4218 Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +44.21 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: Near the gage site
Elevation: +50.457 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1959 to date.

Rating Operation:

Period of Rating: 1960
Rated by Float: -
Rated by Current Meter: 1960

Stability of Channel Regimes: Rather unstable, shifting adjustment if include for flow computation.

Overbank Flow Conditions: No overbank flow.

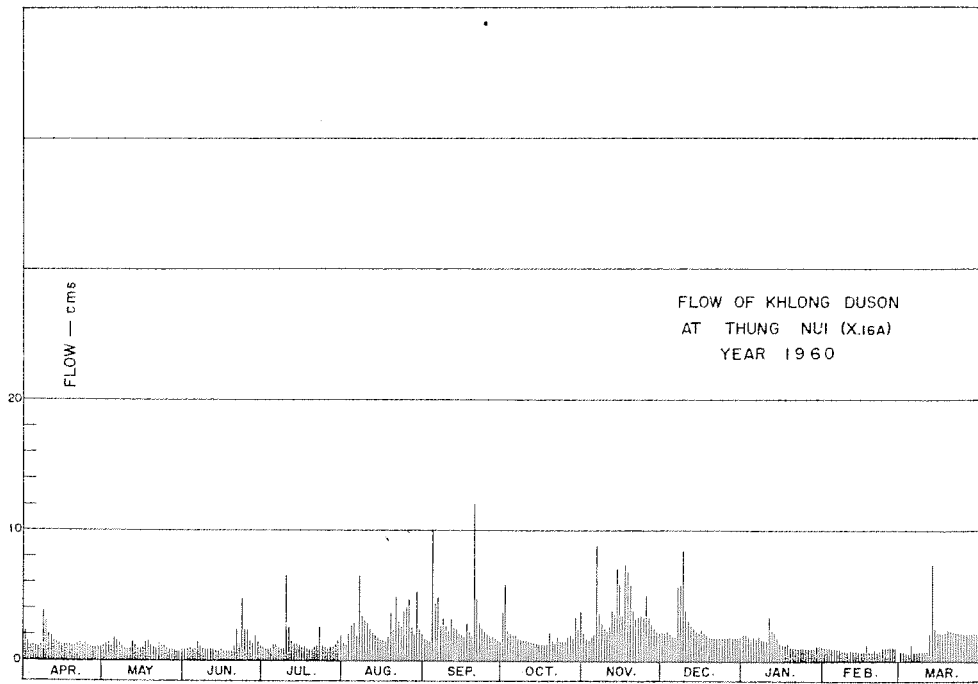
General Description: Records fair. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.29	45.19	45.16	45.18	45.21	45.24	45.37	45.29	45.29	45.27	45.18	45.15
2	.22	.20	.16	.17	.20	.23	.52	.25	.28	.26	.18	.14
3	.19	.22	.17	.17	.27	.22	.29	.23	.29	.26	.18	.14
4	.19	.18	.16	.17	.32	.78	.27	.25	.27	.24	.17	.13
5	.19	.24	.20	.21	.34	.44	.26	.27	.26	.25	.17	.20
6	45.18	45.24	45.22	45.20	45.25	45.47	45.27	45.70	45.25	45.24	45.17	45.14
7	.18	.21	.18	.18	.57	.31	.24	.39	.52	.26	.17	.15
8	.40	.19	.17	.17	.37	.36	.23	.33	.53	.24	.15	.15
9	.35	.17	.17	.17	.35	.32	.23	.31	.69	.23	.15	.15
10	.27	.17	.16	.57	.34	.28	.23	.29	.40	.23	.15	.15
11	45.27	45.17	45.16	45.31	45.30	45.36	45.22	45.32	45.35	45.37	45.15	45.15
12	.23	.22	.16	.23	.28	.31	.22	.40	.32	.30	.15	.27
13	.22	.19	.15	.21	.26	.31	.21	.38	.31	.28	.15	.44
14	.21	.17	.15	.20	.24	.28	.21	.60	.29	.25	.15	.31
15	.20	.17	.16	.20	.23	.27	.21	.53	.28	.21	.14	.28
16	45.20	45.17	45.15	45.18	45.23	45.25	45.20	45.37	45.30	45.20	45.17	45.28
17	.20	.22	.15	.19	.22	.33	.20	.44	.28	.20	.20	.28
18	.20	.23	.15	.17	.25	.29	.20	.59	.27	.21	.14	.28
19	.19	.19	.15	.16	.59	.25	.28	.53	.25	.19	.14	.29
20	.19	.18	.19	.16	.29	.84	.23	.40	.25	.18	.16	.29
21	45.20	45.17	45.30	45.19	45.47	45.46	45.21	45.36	45.25	45.18	45.14	45.29
22	.22	.20	.19	.19	.35	.34	.25	.36	.25	.18	.15	.28
23	.19	.19	.46	.31	.31	.31	.22	.38	.25	.18	.18	.28
24	.21	.19	.30	.19	.40	.29	.22	.37	.25	.18	.18	.28
25	.19	.17	.30	.18	.42	.27	.22	.48	.25	.17	.18	.27
26	45.19	45.16	45.23	45.17	45.46	45.26	45.25	45.37	45.25	45.17	45.18	45.27
27	.18	.16	.22	.18	.31	.25	.26	.33	.25	.17	.18	.27
28	.18	.16	.26	.18	.26	.25	.24	.31	.25	.17	.18	.27
29	.18	.15	.22	.21	.50	.23	.37	.29	.25	.19	.28	.28
30	.18	.15	.18	.23	.30	.22	.29	.28	.25	.19	.27	.27
31		.16		.26	.27		.40		.25	.19		.34
Mean	45.22	45.19	45.20	45.21	45.32	45.33	45.26	45.38	45.30	45.22	45.16	45.24
Max.	45.40	45.24	45.46	45.57	45.57	45.84	45.52	45.70	45.69	45.37	45.18	45.44
Min.	45.18	45.15	45.15	45.17	45.20	45.22	45.20	45.23	45.25	45.17	45.14	45.13

WATER YEAR 1960 : Max. 45.84 m. Min. 45.13 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.28	1.14	0.81	1.03	1.36	1.69	3.38	2.28	2.28	2.04	1.03	0.70
2	1.47	1.25	0.81	0.92	1.25	1.58	5.67	1.80	2.16	1.94	1.03	0.62
3	1.14	1.47	0.92	0.92	2.04	1.47	2.28	1.58	2.28	1.94	1.03	0.62
4	1.14	1.03	0.81	0.92	2.68	10	2.04	1.80	2.04	1.69	0.92	0.54
5	1.14	1.69	0.81	1.36	2.96	4.40	1.92	2.04	1.92	1.80	0.92	1.25
6	1.03	1.69	1.47	1.25	1.80	4.87	2.04	8.85	1.80	1.69	0.92	0.62
7	1.03	1.36	1.03	1.03	6.49	2.54	1.69	3.66	5.67	1.94	0.92	0.70
8	3.80	1.14	0.92	0.92	3.38	3.24	1.58	2.82	5.83	1.69	0.70	0.70
9	3.10	0.92	0.92	0.92	3.10	2.68	1.58	2.54	8.47	1.59	0.70	0.70
10	2.04	0.92	0.81	6.49	2.96	2.16	1.58	2.28	3.80	1.59	0.70	0.70
11	2.04	0.92	0.81	2.54	2.40	3.24	1.47	2.68	3.10	3.38	0.70	0.70
12	1.58	1.47	0.81	1.58	2.16	2.54	1.47	3.80	2.68	2.40	0.70	2.04
13	1.47	1.14	0.70	1.36	1.92	2.54	1.36	3.52	2.54	2.16	0.70	7.40
14	1.36	0.92	0.70	1.25	1.69	2.16	1.36	7.00	2.28	1.80	0.70	2.54
15	1.25	0.92	0.81	1.25	1.58	2.04	1.36	5.83	2.16	1.36	0.62	2.16
16	1.25	0.92	0.70	1.03	1.58	1.80	1.25	3.38	2.40	1.25	0.62	2.16
17	1.25	1.47	0.70	1.14	1.47	2.82	1.25	7.40	2.16	1.25	1.25	2.16
18	1.25	1.58	0.70	0.92	1.80	2.28	1.25	6.83	2.04	1.36	0.62	2.16
19	1.14	1.14	0.70	0.81	3.66	1.80	2.16	5.83	1.80	1.14	0.62	2.28
20	1.14	1.03	1.14	0.81	2.28	12	1.58	3.80	1.80	1.03	0.81	2.28
21	1.25	0.92	2.40	1.14	4.87	4.71	1.36	3.24	1.80	1.03	0.62	2.28
22	1.47	1.25	1.14	1.14	3.10	2.96	1.80	3.24	1.80	1.03	0.70	2.16
23	1.14	1.14	4.71	2.54	2.54	2.54	1.47	3.52	1.80	1.03	1.03	2.16
24	1.36	1.14	2.40	1.14	3.80	2.28	1.47	3.38	1.80	1.03	1.03	2.16
25	1.14	0.92	2.40	1.03	4.10	2.04	1.47	5.03	1.80	0.92	1.03	2.04
26	1.14	0.81	1.58	0.92	4.71	1.92	1.80	3.38	1.80	0.92	1.03	2.04
27	1.03	0.81	1.47	1.03	2.54	1.80	1.92	2.82	1.80	0.92	1.03	2.04
28	1.03	0.81	1.04	1.03	1.92	1.80	1.69	2.54	1.80	0.92	1.03	2.04
29	1.03	0.70	1.47	1.36	5.35	1.58	3.38	2.28	1.80	1.14	2.16	2.16
30	1.03	0.70	1.03	1.58	2.40	1.47	2.28	2.16	1.80	1.14	2.04	2.04
31		0.81		1.92	2.04		3.80		1.80	1.14		2.96
Total	43.52	34.13	37.62	43.28	85.93	90.95	60.71	111.31	79.01	46.26	23.71	57.11
Mean	1.45	1.10	1.25	1.40	2.77	3.03	1.96	3.71	2.55	1.49	0.85	1.84
Max.	3.80	1.69	4.71	6.49	6.49	12	5.67	8.85	8.47	3.38	1.03	7.40
Min.	1.03	0.70	0.70	0.92	1.25	1.47	1.25	1.58	1.80	0.92	0.62	0.54
Runoff - mcm.	3.760	2.949	3.250	3.759	7.424	7.858	5.245	9.617	6.826	3.997	2.048	4.934

WATER YEAR 1960 : Max. 12 Min. 0.54 Mean 1.95 Annual Runoff 61.650 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 4	18.00	46.11	17.9				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
KHLONG DUSON RIVER BASIN

Khlung Duson at Thung Nui, Satun (X.16A)

Location: Lat $06^{\circ} - 48' - 00''$ N, Long $100^{\circ} - 07' - 00''$ E, on right bank 8 kilometers along the local road to Pa - nun Fall at Ban Thung Nui on the country road, Satun - Kluan Niang Railway Station, Satun.

Drainage Area: 58 sq.km. referred to GSGS 4218 Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +44.21 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: Near the gage site

Elevation: +50.457 m.(A.D.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1959 to date

Rating Operation:

Period of Rating: 1960

Rated by Float: -

Rated by Current Meter: 1960

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage height record. Stage - discharge relationship used is defined by discharge measurements during 1960. No state diversion above gage site.

Remarks: No gage height record for Nov.16 - Mar.31

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.21	45.37	45.06	45.11	45.13	45.13	45.13	45.22				
2	.19	.20	.06	.11	.13	.12	.24	.21				
3	.17	.19	.08	.11	.12	.12	.23	.29				
4	.15	.08	.11	.11	.12	.11	.26	.61				
5	.12	.08	.11	.11	.12	.14	.24	.32				
6	45.13	45.06	45.11	45.11	45.12	45.30	45.20	45.34				
7	.09	.07	.11	.12	.17	.16	.17	.33				
8	.09	.08	.11	.12	.81	.15	.16	.80				
9	.09	.08	.11	.12	.20	.13	.19	.39				
10	.09	.08	.11	.12	.13	.13	.17	.39				
11	45.10	45.07	45.11	45.12	45.15	45.13	45.17	45.35				
12	.10	.09	.11	.12	.55	.12	.30	.30				
13	.05	.08	.11	.12	.87	.12	.37	.31				
14	.06	.07	.11	.12	.32	.11	.40	.31				
15	.06	.09	.12	.11	.17	.11	.22	.30				
16	45.05	45.09	45.11	45.11	45.18	45.11	45.21					
17	.05	.09	.11	.11	.14	.14	.21					
18	.06	.09	.11	.26	.13	.13	.28					
19	.06	.09	.10	.20	.13	.17	.46					
20	.07	.09	.10	.13	.13	.13	.80					
21	45.08	45.09	45.11	45.13	45.13	45.13	45.58					
22	.07	.10	.11	.12	.13	.13	.37					
23	.06	.10	.12	.12	.13	.13	.32					
24	.06	.10	.31	.12	.13	.35	.20					
25	.18	.10	.32	.15	.13	.17	.22					
26	45.13	45.10	45.28	45.15	45.13	45.13	45.21					
27	.25	.10	.18	.13	.13	.13	.45					
28	.27	.10	.12	.13	.13	.13	.36					
29	.18	.07	.11	.13	.13	.15	.30					
30	.12	.07	.11	.13	.13	.13	.26					
31		.07		.13	.13		.21					
Mean	45.11	45.10	45.13	45.13	45.20	45.14	45.28					
Max.	45.27	45.37	45.32	45.26	45.87	45.35	45.80					
Min.	45.05	45.06	45.06	45.11	45.12	45.11	45.13					

WATER YEAR 1961 : Max. - m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
KHLONG DUSON RIVER BASIN

Khlung Duson at Thung Nui, Satun (X.16A)

Location: Lat $06^{\circ}-48'-00''$ N, Long $100^{\circ}-07'-00''$ E, on right bank 8 kilometers along the local road to Pa - nun Fall at Ban Thung Nui on the country road, Satun - Khuan Niang Railway Station, Satun.

Drainage Area: 58 sq.km. referred to GSGS 4218 Map 1:253,440

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +44.21 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: Near the gage site
Elevation: +50.457 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1959 to date

Rating Operation:

Period of Rating: 1960
Rated by Float: -
Rated by Current Meter: 1960

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage height record. Stage - discharge relationship used is defined by discharge measurements during 1960. No state diversion above gage site.

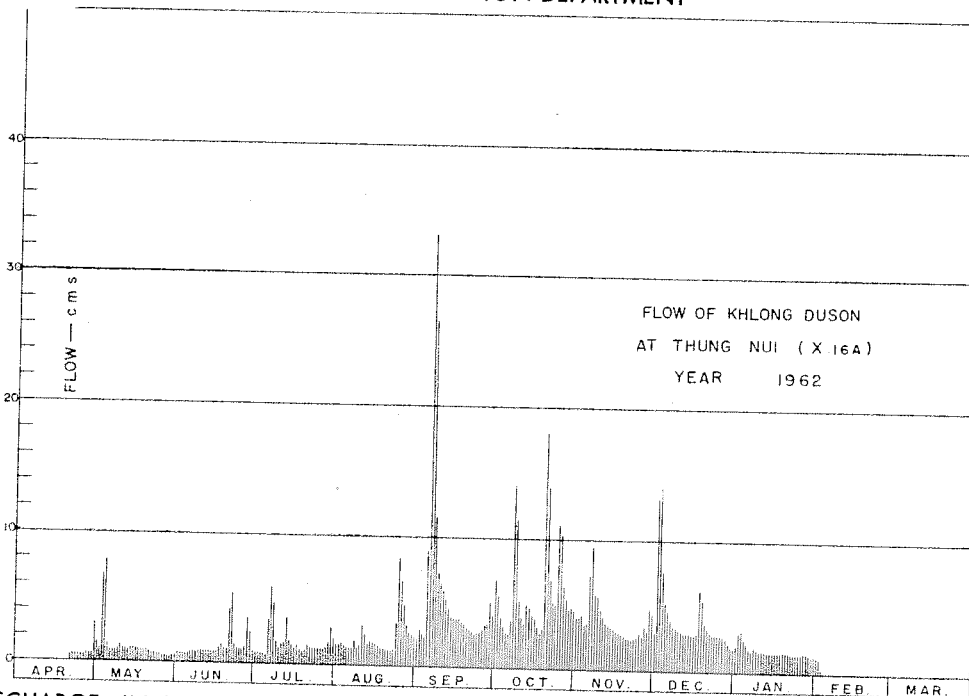
Remarks: No gage height record for Apr. 1 - 20, and no flow for Feb.4 - Mar.31

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		45.20	45.16	45.16	45.23	45.27	45.58	45.40	45.33	45.26	45.19	44.77
2		.18	.15	.16	.23	.33	.48	.41	.90	.34	.19	.77
3		.58	.15	.16	.24	.30	.39	.42	.96	.35	.08	.77
4		.64	.15	.16	.22	.29	.35	.37	.58	.29	44.78	.77
5		.22	.15	.15	.21	.71	.30	.38	.49	.27	.76	.77
6		45.17	45.16	45.32	45.21	46.66	45.32	45.60	45.44	45.24	44.76	44.77
7		.17	.16	.53	.21	.43	.39	.72	.40	.23	.76	.77
8		.17	.16	.45	.26	45.75	.95	.52	.37	.25	.76	.77
9		.17	.17	.24	.21	.59	.76	.51	.36	.24	.76	.78
10		.20	.17	.18	.21	.56	.44	.44	.35	.23	.76	.78
11		45.18	45.17	45.23	45.35	45.52	45.39	45.41	45.34	45.23	44.76	44.78
12		.17	.17	.23	.29	.48	.37	.38	.33	.23	.76	.78
13		.17	.17	.38	.24	.45	.47	.37	.33	.22	.77	.78
14		.18	.17	.25	.26	.40	.45	.36	.33	.22	.77	.78
15		.18	.17	.21	.24	.39	.40	.35	.32	.22	.77	.78
16		45.18	45.17	45.19	45.24	45.39	45.40	45.34	45.32	45.22	44.77	44.78
17		.17	.20	.22	.23	.39	.35	.33	.33	.22	.77	.78
18		.17	.22	.18	.20	.37	.32	.32	.55	.22	.77	.78
19		.16	.18	.17	.21	.36	.33	.31	.50	.22	.77	.78
20		.16	.18	.19	.20	.34	46.13	.31	.38	.22	.76	.78
21	45.12	45.16	45.42	45.22	45.19	45.33	45.89	45.30	45.36	45.22	44.76	44.80
22	.12	.15	.50	.20	.19	.32	.53	.29	.33	.21	.76	.79
23	.13	.15	.22	.20	.20	.31	.46	.30	.32	.21	.76	.79
24	.13	.14	.19	.20	.40	.32	.47	.31	.32	.21	.76	.79
25	.13	.14	.19	.20	.67	.32	.83	.33	.32	.21	.76	.79
26	45.13	45.13	45.19	45.20	45.54	45.34	45.78	45.31	45.32	45.21	44.76	44.78
27	.14	.13	.20	.20	.38	.37	.53	.37	.32	.22	.76	.78
28	.14	.13	.38	.20	.33	.37	.49	.33	.31	.22	.76	.78
29	.14	.13	.30	.23	.31	.48	.44	.46	.27	.21	.76	.77
30	.34	.13	.17	.33	.30	.39	.46	.43	.25	.20	.76	.77
31		.14		.25	.29		.43		.25	.20	.76	.77
Mean		45.19	45.20	45.23	45.27	45.48	45.51	45.39	45.40	45.23	44.80	44.78
Max.		45.64	45.50	45.53	45.67	46.66	46.13	45.72	45.96	45.35	45.19	44.80
Min.		45.13	45.15	45.15	45.19	45.29	45.30	45.29	45.25	45.20	44.76	44.77

WATER YEAR 1962 : Max. 46.66 m. Min. 44.77 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		1.25	0.81	0.81	1.58	2.04	6.66	3.80	2.82	1.92	1.14	0.00
2		1.03	0.70	0.81	1.58	2.82	5.03	3.95	13	2.96	1.14	0.00
3		6.66	0.70	0.81	1.69	2.40	3.66	4.10	14	3.10	0.19	0.00
4		7.73	0.70	0.81	1.47	2.28	3.10	3.38	6.66	2.28	0.00	0.00
5		1.47	0.70	0.70	1.36	9.04	2.40	3.52	5.19	2.04	0.00	0.00
6		0.92	0.81	2.68	1.36	33	2.68	7.00	4.40	1.69	0.00	0.00
7		0.92	0.81	5.83	1.36	26	3.66	9.23	3.80	1.58	0.00	0.00
8		0.92	0.81	4.55	1.92	9.80	14	5.67	3.38	1.80	0.00	0.00
9		0.92	0.92	1.69	1.36	6.83	10	5.51	3.24	1.69	0.00	0.00
10		1.25	0.92	1.03	1.36	6.32	4.40	4.40	3.10	1.58	0.00	0.00
11		1.03	0.92	1.58	3.10	5.67	3.66	3.95	2.96	1.58	0.00	0.00
12		0.92	0.92	1.58	2.28	5.03	3.38	3.52	2.82	1.58	0.00	0.00
13		0.92	0.92	3.52	1.69	4.25	4.87	3.38	2.82	1.47	0.00	0.00
14		1.03	0.92	1.80	1.92	3.80	4.55	3.24	2.82	1.47	0.00	0.00
15		1.03	0.92	1.36	1.69	3.66	3.80	3.10	2.68	1.47	0.00	0.00
16		1.03	0.92	1.14	1.69	3.66	3.80	2.96	2.68	1.47	0.00	0.00
17		0.92	1.25	1.47	1.58	3.66	3.10	2.82	2.82	1.47	0.00	0.00
18		0.92	1.47	1.03	1.25	3.38	2.68	2.68	6.15	1.47	0.00	0.00
19		0.81	1.03	1.03	1.36	3.24	2.82	2.54	5.35	1.47	0.00	0.00
20		0.81	1.03	1.14	1.25	2.96	18	2.54	3.52	1.47	0.00	0.00
21	0.47	0.81	4.10	1.47	1.14	2.82	13	2.40	3.24	1.47	0.00	0.00
22	0.47	0.70	5.35	1.25	1.14	2.68	5.83	2.28	2.82	1.36	0.00	0.00
23	0.54	0.70	1.47	1.25	1.25	2.54	4.71	2.40	2.68	1.36	0.00	0.00
24	0.54	0.62	1.14	1.25	3.80	2.68	4.87	2.54	2.68	1.36	0.00	0.00
25	0.54	0.62	1.14	1.25	8.28	2.68	11	2.82	2.68	1.36	0.00	0.00
26	0.54	0.54	1.14	1.25	5.99	2.96	10	2.54	2.68	1.36	0.00	0.00
27	0.62	0.54	1.25	1.25	3.52	3.38	5.83	3.38	2.68	1.47	0.00	0.00
28	0.62	0.54	3.52	1.25	2.82	3.38	5.19	2.82	2.54	1.47	0.00	0.00
29	0.62	0.54	2.40	1.58	2.54	5.03	4.40	4.71	2.04	1.36	0.00	0.00
30	2.96	0.54	0.92	2.82	2.40	3.66	4.71	4.25	1.80	1.25	0.00	0.00
31		0.62	1.80	2.28	2.28		4.25		1.80	1.25	0.00	0.00
Total		39.26	40.61	51.68	68.01	171.65	180.04	111.43	121.85	50.63	2.47	0.00
Mean		1.27	1.35	1.67	2.19	5.72	5.81	3.71	3.93	1.63	0.09	0.00
Max.		7.73	5.35	5.83	8.28	33	18	9.23	14	3.10	1.14	0.00
Min.		0.54	0.70	0.70	1.14	2.28	2.40	2.28	1.80	1.25	0.00	0.00
Runoff - mcm.		3.392	3.509	4.465	5.876	14.830	15.555	9.627	10.528	4.374	0.213	0.000

WATER YEAR 1962 : Max. 33 Min. 0.00 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.1	10.00	47.05	44.00				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
KHLONG SAO THONG RIVER BASIN

Khlong Sao Thong at Ban Mai Thon, Nakhon Si Thammarat (X.18)

Location: Lat 08° - 20' - 18" N, Long 99° - 50' - 17" E, on right bank, 6 kilometers from left side along the country road at Km.35 on highway Thung Song - Nakhon Si Thammarat, at Ban Mai Thon near Khlong Sao Thong Irrigation Project, Amphoe Lan Saka, Nakhon Si Thammarat.

Drainage Area: 168 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +20.81 m.(A.D.)

Bench Mark:

Location: -
Elevation: -

Gage Reading Frequency: 13 - time hourly readings from 06.00 - 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 13 readings.

Period of Available Gage Records: 1960 - 61

Rating Operation:

Period of Rating: 1960 - 61
Rated by Float: -
Rated by Current Meter: 1960 - 61

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: -

General Description: Records fair. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

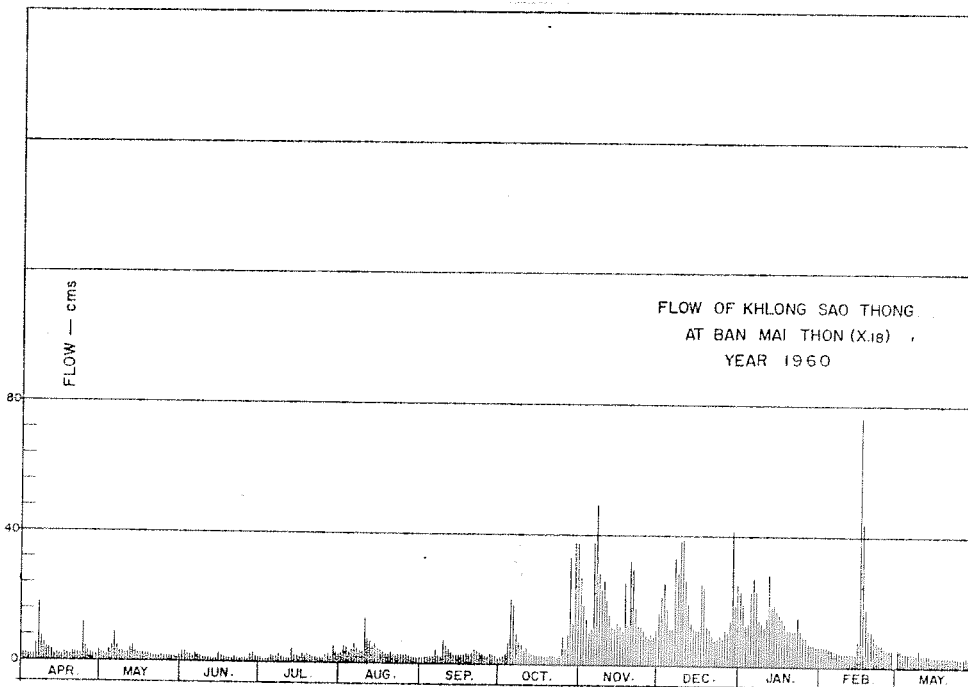
Remarks: Records ending in year 1961 and removed site to station X.18A, 3 kilometers at upstream, and has operated by recording since Apr. 1962.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22.95	22.99	23.02	22.86	23.06	22.90	22.94	24.03	23.71	23.94	23.22	23.17
2	.92	.95	.03	.85	.20	.90	.94	23.77	.87	.80	.22	.18
3	.92	.92	.00	.84	.15	.90	23.06	.61	24.01	.53	.21	.12
4	.93	23.11	22.96	.83	.04	.93	.27	.42	23.72	.56	.20	.10
5	.92	.15	.92	.95	.11	.92	.84	.47	.48	.93	.18	.10
6	23.19	23.39	22.99	22.92	23.24	23.09	23.75	24.37	23.47	24.07	23.16	23.09
7	.75	.19	.94	.89	.13	22.96	.38	.66	24.25	23.94	.13	.08
8	.31	.05	.90	.96	.08	.93	.26	.10	.11	.63	.11	.07
9	.21	.04	.89	.89	.05	23.29	.21	23.93	.40	.57	.10	.16
10	.13	23.00	.88	.86	23.60	.20	.12	24.02	.41	.52	.09	.07
11	23.08	23.02	22.86	22.86	23.30	23.13	23.16	23.82	24.03	23.64	23.08	23.06
12	.03	.13	.85	.85	.27	.08	.05	.64	23.79	24.10	.08	.03
13	22.90	.17	.84	23.10	.17	.00	.02	.52	.59	23.78	.08	.03
14	.96	.06	.83	22.95	.24	22.98	.00	.47	.52	.81	.07	.01
15	.94	.00	.99	.94	.14	.97	22.99	.57	.47	.72	.31	.01
16	22.93	22.98	22.93	22.89	23.12	22.99	22.98	23.53	23.49	23.70	23.24	23.00
17	.99	.97	.90	23.01	.07	.96	.96	.43	24.00	.65	24.51	.00
18	.95	.96	.86	22.94	.02	23.03	.94	.99	23.97	.57	23.73	.00
19	.92	.95	.85	.99	.01	.01	.94	.54	.55	.49	.48	.00
20	23.00	.94	.84	.95	.04	.04	23.00	24.23	.46	.47	.49	.00
21	23.00	22.93	22.90	22.92	23.00	23.13	22.96	24.14	23.40	23.46	23.39	22.97
22	.00	.91	.86	.90	22.96	.10	.96	23.66	.33	.46	.30	.97
23	22.90	.91	.84	.86	23.00	.06	.92	.54	.34	.65	.28	.95
24	23.55	.90	.83	.87	.01	.02	.97	.52	.40	.46	.26	.94
25	.11	.90	.86	.86	22.99	22.96	23.36	.47	.35	.39	.23	.94
26	23.03	22.89	22.84	22.95	22.96	22.93	23.14	23.40	23.47	23.37	23.19	22.94
27	22.99	.89	23.00	.97	.94	23.02	.28	.34	.42	.32	.17	23.00
28	.95	.88	.02	.90	.93	.00	24.26	.41	.62	.31	.18	22.94
29	.92	.87	22.92	23.18	.92	22.96	23.51	.36	24.46	.30		.97
30	23.04	.94	.87	.03	.91	.93	24.36	.48	23.76	.27		23.10
31		.98		22.99	.91		.48		24.00	.25		.00
Mean	23.05	23.00	22.91	22.95	23.08	23.01	23.26	23.71	23.74	23.60	23.35	23.03
Max.	23.75	23.39	23.03	23.18	23.60	23.29	24.48	24.66	24.46	24.10	23.24	23.18
Min.	22.90	22.87	22.83	22.83	22.91	22.90	22.94	23.34	23.33	23.25	23.07	22.94

WATER YEAR 1960 : Max. 25.24 m. Min. 22.83 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.50	2.90	3.20	1.60	3.70	2.00	2.40	26	16	23	6.00	5.20
2	2.20	2.50	3.40	1.50	5.60	2.00	2.40	18	21	19	6.00	5.30
3	2.20	2.20	3.00	1.40	4.90	2.00	3.70	14	25	12	5.80	4.50
4	2.30	4.30	2.60	1.30	3.50	2.30	6.90	9.80	17	13	5.60	4.20
5	2.20	4.90	2.20	2.50	4.30	2.20	20	11	11	23	5.30	4.20
6	5.50	9.20	2.90	2.20	6.30	4.10	18	37	11	27	5.00	4.10
7	18	5.50	2.40	1.90	4.60	2.60	9.00	49	33	23	4.60	4.00
8	7.60	3.60	2.00	2.60	4.00	2.30	6.70	28	28	14	4.30	3.80
9	5.80	3.50	1.90	1.90	3.60	7.20	5.80	23	38	13	4.20	5.00
10	4.60	3.00	1.80	1.60	14	5.60	4.50	26	39	12	4.10	3.80
11	4.00	3.20	1.60	1.60	7.40	4.60	5.00	20	26	15	4.00	3.70
12	3.40	4.60	1.50	1.50	6.90	4.00	3.60	15	19	28	4.00	3.40
13	2.00	5.20	1.40	4.20	5.20	3.00	3.20	12	13	18	4.00	3.40
14	2.60	3.70	1.30	2.50	6.30	2.80	3.00	11	12	19	3.80	3.10
15	2.40	3.00	2.90	2.40	4.80	2.70	2.90	13	11	17	7.60	3.10
16	2.30	2.80	2.30	1.90	4.50	2.90	2.80	12	11	16	7.6	3.00
17	2.90	2.70	2.00	3.10	3.80	2.60	2.60	10	25	15	4.3	3.00
18	2.50	2.60	1.60	2.40	3.20	3.40	2.40	25	24	13	1.7	3.00
19	2.20	2.50	1.50	2.90	3.10	3.10	2.40	12	12	11	1.1	3.00
20	3.00	2.40	1.40	2.50	3.50	3.50	3.00	32	11	11	1.1	3.00
21	3.00	2.30	2.00	2.20	3.00	4.60	2.60	29	9.40	11	9.20	2.70
22	3.00	2.10	1.60	2.00	2.60	4.20	2.60	15	8.00	11	7.40	2.70
23	2.90	2.10	1.40	1.60	3.00	3.70	2.20	12	8.20	15	7.00	2.50
24	12	2.00	1.30	1.70	3.10	3.20	2.70	12	9.40	11	6.70	2.40
25	4.30	2.00	1.60	1.60	2.90	2.60	8.60	11	8.40	9.20	6.10	2.40
26	3.40	1.90	1.40	2.50	2.60	2.30	4.80	9.40	11	8.80	5.50	2.40
27	2.90	3.00	2.70	2.40	2.40	3.20	7.00	8.20	9.80	7.80	5.20	3.00
28	2.50	1.80	3.20	2.00	2.30	3.00	33	9.60	14	7.60	5.30	2.40
29	2.20	1.70	2.20	5.30	2.20	2.60	12	8.60	41	7.40	2.70	2.70
30	3.50	1.40	1.70	3.40	2.10	2.30	37	11	18	6.80	4.20	4.20
31		1.80	2.90	2.10	2.10	41	41		25	6.50	3.00	3.00
Total	119.90	95.30	62.30	71.40	131.50	96.60	263.80	529.60	565.20	444.10	284.70	106.20
Mean	4.00	3.07	2.08	2.30	4.24	3.22	8.51	17.6	18.2	14.3	10.2	3.42
Max.	18	9.20	3.40	5.30	14	7.20	41	49	41	28	76	5.30
Min.	2.00	1.40	1.30	1.30	2.10	2.00	2.40	8.20	8.00	6.50	3.80	2.40
Runoff - BCM.	10.359	8.234	5.383	6.170	11.362	8.346	22.792	45.757	48.833	38.370	24.598	9.176

WATER YEAR 1960 : Max. 76 Min. 1.30 Mean 7.59 Annual Runoff 239.380 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Feb. 16	18.00	26.21	160				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
KHLONG SAO THONG RIVER BASIN

Khlong Sao Thong at Ban Mai Thon, Nakhon Si Thammarat (X.18)

Location: Lat 08° - 20' - 18" N, Long 99° - 50' - 17" E, on right bank, 6 kilometers from left side along the country road at Km.35 on highway Thung Song - Nakhon Si Thammarat, at Ban Mai Thon near Khlong Sao Thong Irrigation Project, Amphoe Lan Saka, Nakhon Si Thammarat.

Drainage Area: 168 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +20.81 m.(A.D.)

Bench Mark:

Location: -
Elevation: -

Gage Reading Frequency: 13 - time hourly readings from 06.00 - 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 13 readings.

Period of Available Gage Records: 1960 - 61

Rating Operation:

Period of Rating: 1960 - 61
Rated by Float: -
Rated by Current Meter: 1960 - 61

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: -

General Description: Records fair. The data presented is made by discharge measurements during 1961. No state diversions above gage site.

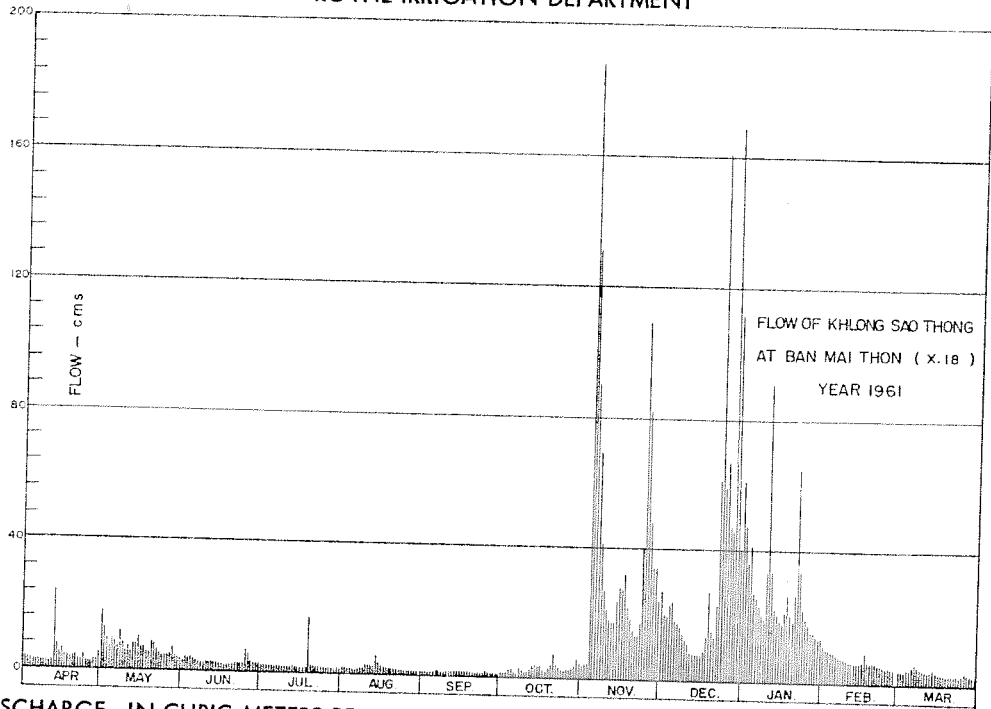
Remarks: Records ending in year 1961 and removed site to station X.18A, 3 kilometers at upstream, and has operated by recording since Apr. 1962.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.18	23.81	23.03	22.90	22.86	22.75	22.75	23.09	24.09	24.79	23.54	23.20
2	.01	.40	.09	.88	.85	.75	.76	.17	23.91	.49	.52	.19
3	22.96	.50	.09	.88	.82	.75	.81	.12	.82	.46	.50	.18
4	.94	.22	.11	.88	.82	.75	.89	24.38	.95	.32	.48	.21
5	.93	.52	.05	.87	.81	.72	.81	26.94	.94	.20	.46	.21
6	22.93	23.28	23.01	22.86	22.80	22.83	22.78	25.44	23.73	24.11	23.43	23.26
7	.91	.19	.00	.90	.81	.80	.78	.09	.66	23.98	.40	.33
8	.90	.49	22.98	.87	.84	.75	.93	24.55	.65	.87	.39	.28
9	.90	.25	.91	.86	.82	.73	.89	.08	.59	.84	.38	.24
10	.90	.17	23.00	.86	.95	.79	.79	23.82	.54	24.19	.36	.21
11	22.88	23.22	22.96	22.86	22.92	22.80	22.82	23.76	23.49	25.44	23.35	23.18
12	.88	.14	.96	.87	.92	.81	.94	.77	.45	24.23	.34	.16
13	23.94	.28	.94	.89	.91	.77	23.09	.79	.42	23.97	.33	.16
14	.20	.26	.93	.86	23.15	.80	.03	24.03	.40	.89	.33	.24
15	.01	.32	.91	.86	22.98	.77	22.95	.28	.42	.81	.32	.17
16	23.15	23.23	22.91	22.86	22.94	22.75	23.04	24.05	23.38	23.78	23.35	23.13
17	.00	.23	.91	.86	.91	.79	22.87	.36	.46	24.01	.48	.11
18	.01	.16	.91	.85	.85	.80	.85	23.92	.61	.16	.33	.09
19	22.99	.15	.91	23.04	.85	.79	23.00	.74	24.07	23.88	.31	.08
20	23.00	.31	.90	22.93	.83	.76	.09	.60	23.68	.80	.33	.08
21	22.99	23.28	22.99	22.87	22.82	22.74	23.52	23.53	23.59	24.13	23.31	23.07
22	.93	.18	.94	.86	.81	.72	.08	.62	.91	.92	.28	.07
23	.93	.13	.92	.86	.80	.71	22.99	.75	24.81	.34	.27	.08
24	23.07	.09	.94	.86	.76	.73	.92	24.60	26.66	.00	.26	.06
25	22.96	.11	23.15	.85	.76	.84	.89	25.66	24.87	23.86	.24	.08
26	22.92	23.12	23.08	22.85	22.76	22.77	22.93	25.35	24.98	23.76	23.23	23.18
27	.91	.10	22.98	.85	.76	.75	.91	24.65	.66	.71	.22	.13
28	.97	.23	.94	.84	.79	.73	23.00	.30	.70	.66	.21	.08
29	.97	.10	.94	.84	.74	.70	.04	.30	26.56	.64	.26	.06
30	23.08	.07	.92	.84	.74	.74	.03	23.98	25.84	.62	.26	.04
31		.04		.83	.73		.21		24.30	.58		.03
Mean	22.98	23.24	22.94	22.87	22.84	22.76	22.95	24.22	24.13	24.08	23.35	23.15
Max.	23.94	23.81	23.15	23.04	23.15	22.84	23.52	26.94	26.66	25.44	23.54	23.33
Min.	22.91	23.04	22.91	22.83	22.73	22.70	22.75	23.09	23.38	23.58	23.21	23.03

WATER YEAR 1961 : Max. 26.94 m. Min. 22.73 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.00	18	3.10	2.30	2.00	1.10	1.20	4.00	27	61	11	4.00
2	3.40	12	4.10	2.10	1.80	1.10	1.20	4.60	20	47	10	3.90
3	3.30	9.60	4.00	2.10	1.50	1.10	1.60	4.40	19	36	9.80	3.70
4	2.60	6.60	4.30	2.10	1.60	1.10	2.40	47	23	41	9.30	4.20
5	2.50	10	3.60	2.00	1.50	0.90	1.50	188	24	27	8.90	4.20
6	2.50	8.60	3.00	1.90	1.40	1.70	1.40	90	18	25	8.20	4.90
7	2.50	6.60	2.90	2.30	1.50	1.40	1.30	69	17	22	7.50	6.10
8	2.30	12	2.70	2.00	1.80	1.00	2.70	42	16	20	7.30	5.20
9	2.30	7.80	2.10	1.80	1.60	0.90	2.20	27	14	19	7.10	4.60
10	2.30	5.70	2.80	1.70	2.80	1.20	1.40	20	12	33	6.70	4.20
11	2.10	7.40	2.80	1.70	2.50	1.40	1.60	18	11	91	6.50	3.70
12	2.20	5.20	2.70	1.70	2.60	1.50	2.60	19	8.60	33	6.30	3.50
13	24	8.20	2.60	2.30	2.40	1.20	3.60	19	8.20	22	6.10	3.50
14	7.10	8.40	2.50	1.60	6.00	1.40	3.70	24	7.90	20	6.10	4.60
15	4.60	10	2.30	1.60	3.40	1.50	2.90	28	8.20	18	5.90	3.60
16	6.30	7.00	2.20	1.60	2.70	1.10	3.30	27	7.60	17	6.50	3.10
17	4.00	7.10	2.20	1.60	2.40	1.30	1.90	32	8.90	22	9.30	2.80
18	4.10	5.50	2.20	1.50	1.90	1.50	1.60	22	13	26	6.10	2.60
19	3.40	5.00	2.20	17	1.90	1.30	3.00	18	27	20	5.70	2.50
20	4.10	8.70	2.10	2.50	1.70	1.10	4.60	15	15	18	6.10	2.50
21	4.10	8.20	2.80	1.90	1.60	1.00	7.30	13	13	26	5.70	2.40
22	2.80	5.70	2.50	1.90	1.50	0.90	3.80	13	23	65	5.20	2.40
23	2.90	5.00	2.50	1.80	1.50	0.90	2.90	17	61	32	5.10	2.50
24	4.60	4.30	2.50	1.70	1.10	0.90	2.30	50	170	22	4.90	2.30
25	2.80	4.60	7.00	1.60	1.10	1.90	2.00	109	59	19	4.60	2.50
26	2.20	4.70	5.40	1.60	1.10	1.20	2.60	82	67	17	4.50	3.70
27	2.10	4.90	2.90	1.60	1.10	1.00	2.30	48	47	15	4.30	3.10
28	3.10	7.10	2.70	1.50	1.30	0.90	3.60	34	45	15	4.20	2.50
29	3.10	4.40	2.80	1.50	0.90	0.80	3.30	34	169	14	2.30	2.30
30	4.90	3.80	2.50	1.50	0.90	0.90	5.70	24	112	13	2.00	2.00
31		3.70	1.40	0.90	0.90		4.60		40	13	1.90	1.90
Total	125.20	288.80	90.00	71.40	58.00	35.20	85.50	1,142.00	1,111.40	869	188.90	105.00
Mean	4.17	9.32	3.00	2.30	58.00	35.20	85.50	1,142.00	1,111.40	869	188.90	105.00
Max.	24	18	7.00	17	6.00	1.90	7.30	188	170	91	11	6.10
Min.	2.10	3.70	2.10	1.40	0.90	0.80	1.20	4.00	7.60	13	4.20	1.90
Runoff - mcm.	10.817	24.952	2.776	6.169	5.011	3.041	7.387	98.669	96.025	75.082	16.321	9.072

WATER YEAR 1961 : Max. 188 Min. 0.90 Mean 11.4 Annual Runoff 360.322 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 29	17.00	28.50	315				

**HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
KHLONG SAO THONG RIVER BASIN**

Khlong Sao Thong at Khun Thale, Nakhon Si Thammarat (X.18A)

Location: Lat 08° - 20' - 18" N, Long 99° - 50' - 03" E, on left bank 6 kilometers from left side along the country road at km.35 on highway Thung Song - Nakhon Si Thammarat, 200 meters from Khlong Sao Thong Irrigation Project, Amphoe Lan Saka.

Drainage Area: 163 sq.km. referred to AMS Map 1:50,000

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +22.53 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: Near the gage site
Elevation: +27.900 m.(A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly.

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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

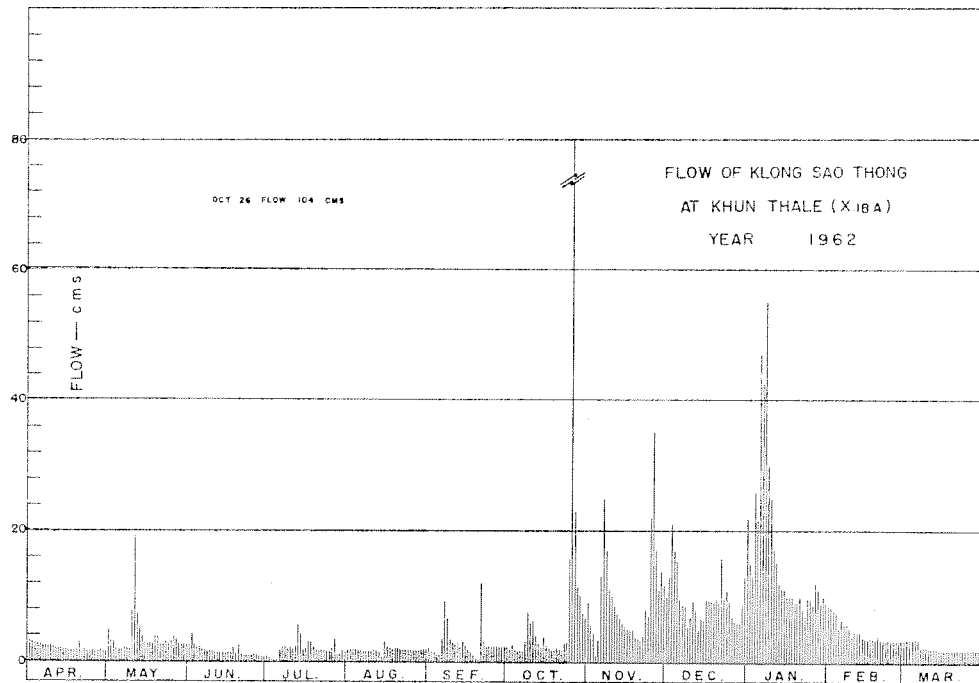
General Description: Records good, the data presented is made by discharge measurements during 1962. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.04	23.14	23.00	22.82	22.90	22.93	22.97	23.33	23.40	23.80	23.22	22.99
2	.02	.03	.11	.82	.92	.92	.97	.17	.54	.62	.19	.99
3	.01	.03	.00	.82	.93	.92	23.03	.15	.71	.54	.17	.99
4	.00	22.96	22.97	.82	.92	.92	22.98	.12	.68	.92	.14	.99
5	.00	.95	.98	.82	.91	.95	.97	.11	.53	.86	.13	.99
6	22.99	22.95	22.96	22.99	22.90	23.11	22.98	23.54	23.38	24.63	23.11	22.99
7	.99	.97	.95	.99	.90	.43	.96	24.00	.33	.49	.10	.98
8	.98	.96	.94	.96	.90	.34	23.09	23.72	.29	25.02	.09	.98
9	.98	.96	.94	.91	.90	.12	.29	.48	.25	24.12	.08	.98
10	.98	23.32	.94	.93	.90	.07	.23	.39	.28	23.83	.07	.98
11	22.95	23.77	22.93	22.92	22.92	23.05	23.34	23.31	23.32	23.66	23.06	22.98
12	.96	.26	.92	.96	.93	.06	.14	.25	.30	.59	.04	.98
13	.96	.16	.92	23.27	.94	.02	.07	.21	.22	.46	.04	.98
14	.95	.08	.92	.12	.92	.08	.02	.18	.21	.40	.02	.97
15	.95	.02	.92	22.94	23.13	.03	.13	.16	.19	.36	.01	.97
16	22.94	23.01	22.92	22.94	22.98	23.00	23.05	23.14	23.31	23.33	23.01	22.97
17	.94	.02	.92	23.07	.96	22.99	.02	.11	.25	.31	.01	.97
18	.94	.02	.97	.09	.95	.98	.00	.10	.30	.30	.00	.97
19	.94	.09	.91	22.96	.95	.94	.00	.10	.29	.25	.00	.97
20	23.03	.08	23.00	.92	.94	.96	.02	.10	.22	.21	.03	.97
21	22.90	23.00	22.91	22.91	22.93	23.62	23.01	23.06	23.29	23.17	22.99	22.97
22	.95	.00	.90	.91	.92	.14	.00	.10	.58	.14	.98	.97
23	.93	.03	.90	.90	.92	.05	.07	.21	.34	.12	.98	.97
24	.94	.00	.89	.90	.92	23.00	.14	.22	.38	.36	.98	.97
25	.94	.03	.89	.90	.92	22.99	.83	24.10	.27	.27	.98	.97
26	22.93	23.09	22.92	22.94	22.92	22.99	26.34	24.31	23.22	23.23	22.98	22.97
27	.94	.05	.90	23.04	.92	.99	23.91	23.71	.18	.41	.98	.97
28	.95	.01	.89	22.91	.92	.98	.53	.48	.15	.35	.98	.97
29	.93	.00	.88	.91	.92	.99	.41	.58	.13	.24	.97	.97
30	.93	.00	.88	.94	.92	.99	.31	.50	.29	.29	.97	.97
31		.00	.88	.91	.92		.25		.49	.25		.97
Mean	22.96	23.06	22.94	22.94	22.93	23.05	23.26	23.36	23.33	23.56	23.05	22.98
Max.	23.04	23.77	23.11	23.27	23.13	23.43	26.34	24.31	23.71	25.02	23.22	22.99
Min.	22.93	22.95	22.88	22.82	22.92	22.96	22.96	23.06	23.21	23.12	22.98	22.97

WATER YEAR 1962 : Max. 26.34 m. Min. 22.82 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.10	4.80	2.50	0.90	1.75	2.05	2.20	9.00	10	22	8.40	3.25
2	2.80	2.95	4.20	0.60	1.90	1.60	1.90	5.40	15	15	8.20	3.40
3	2.65	2.95	2.50	0.50	1.90	1.45	2.50	4.40	21	13	8.00	3.40
4	2.50	1.90	2.05	0.30	1.90	1.15	1.75	0.80	17	26	7.60	3.40
5	2.50	1.75	2.20	0.10	1.75	1.00	1.60	4.40	15	21	5.00	3.40
6	2.35	1.75	1.90	1.90	1.60	3.55	1.75	13	9.40	47	6.40	3.40
7	2.35	2.05	1.75	2.35	1.60	9.20	1.60	25	8.60	42	5.80	2.20
8	2.20	1.90	1.60	2.35	1.60	6.60	3.55	17	8.40	55	5.80	2.20
9	2.20	1.90	1.60	1.90	1.60	3.25	7.40	11	5.20	30	5.20	2.20
10	2.20	8.40	1.60	2.05	1.60	2.80	5.80	10	7.00	25	3.85	2.05
11	1.75	19	1.45	1.75	1.90	2.50	6.20	8.60	9.20	17	4.80	2.05
12	1.90	7.20	1.30	2.20	1.60	2.80	4.00	7.40	7.80	15	4.60	2.05
13	1.90	5.20	1.30	5.60	1.30	2.20	2.80	6.60	4.80	12	4.60	2.05
14	1.75	3.70	1.30	4.40	0.60	3.10	2.05	5.80	6.60	11	3.70	1.90
15	1.75	2.80	1.30	1.75	3.10	2.50	3.70	5.40	6.40	11	3.55	1.90
16	1.60	2.65	1.30	2.05	2.35	1.75	2.50	5.00	9.40	10	3.55	1.90
17	1.60	2.80	1.30	3.10	2.05	1.30	2.05	4.80	9.40	10	3.70	1.90
18	1.60	2.80	2.05	2.95	1.90	0.90	1.75	5.00	9.20	10	3.55	1.75
19	1.60	3.85	1.15	2.20	2.05	0.40	1.75	3.70	9.00	9.00	3.55	1.75
20	2.95	3.70	2.50	1.75	2.05	0.30	2.05	3.55	9.60	9.00	4.00	1.75
21	1.00	2.50	1.15	1.60	1.90	12	1.90	3.25	9.00	10	3.40	1.75
22	1.75	2.50	1.00	1.75	1.75	3.10	1.75	4.00	16	7.60	3.25	1.75
23	1.45	2.95	1.00	1.75	1.75	2.35	2.80	7.80	9.60	7.00	3.25	1.75
24	1.60	2.50	0.90	1.60	1.75	2.35	3.85	6.80	11	9.60	3.25	1.75
25	1.60	2.95	0.90	1.45	1.75	2.20	20	22	9.20	9.60	3.25	1.75
26	1.45	3.85	1.30	1.90	1.90	2.35	104	35	7.00	8.60	3.25	1.75
27	1.60	3.25	1.00	3.25	1.75	2.35	20	17	6.20	12	3.25	1.75
28	1.75	2.65	0.90	1.15	1.75	2.20	11	11	6.00	11	3.25	1.75
29	1.45	2.50	0.80	1.00	1.75	2.35	10	14	6.00	8.80		1.75
30	1.45	2.50	0.80	1.75	1.90	2.35	7.00	12	9.20	10		1.75
31		2.50		1.60	1.90		6.20		13	8.80		1.75
Total	58.35	114.70	46.60	59.50	55.95	84.00	247.40	288.70	300.20	513.00	130.00	67.15
Mean	1.94	13.7	1.55	1.92	1.80	2.80	7.98	9.62	9.68	16.5	4.64	2.17
Max.	3.10	19	4.20	5.60	3.10	12	104	35	21	55	8.40	3.40
Min.	1.45	1.75	0.80	0.10	0.60	0.30	1.60	0.80	4.80	7.00	3.25	1.75
Runoff - mcm.	5.041	9.910	4.026	5.141	4.834	7.258	21.375	24.944	25.937	44.323	11.232	5.802

WATER YEAR 1962 : Max. 104 Min. 0.30 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	13.00	27.40	140				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1960
KHLONG AI TO RIVER BASIN

Khlung Tha Chiat at Ban Thung Chang Kra, Phatthalung (X.21)

Location: Lat 07°- 20' - 58" N, Long 100°- 06' - 40" E, at Ban Thung Chang Kra, Tambon Ta Mote, Amphoe Khao Chaison, Phatthalung.

Drainage Area: 176 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.40 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: Near the upper gage.

Elevation: +25.244 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: 1959 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

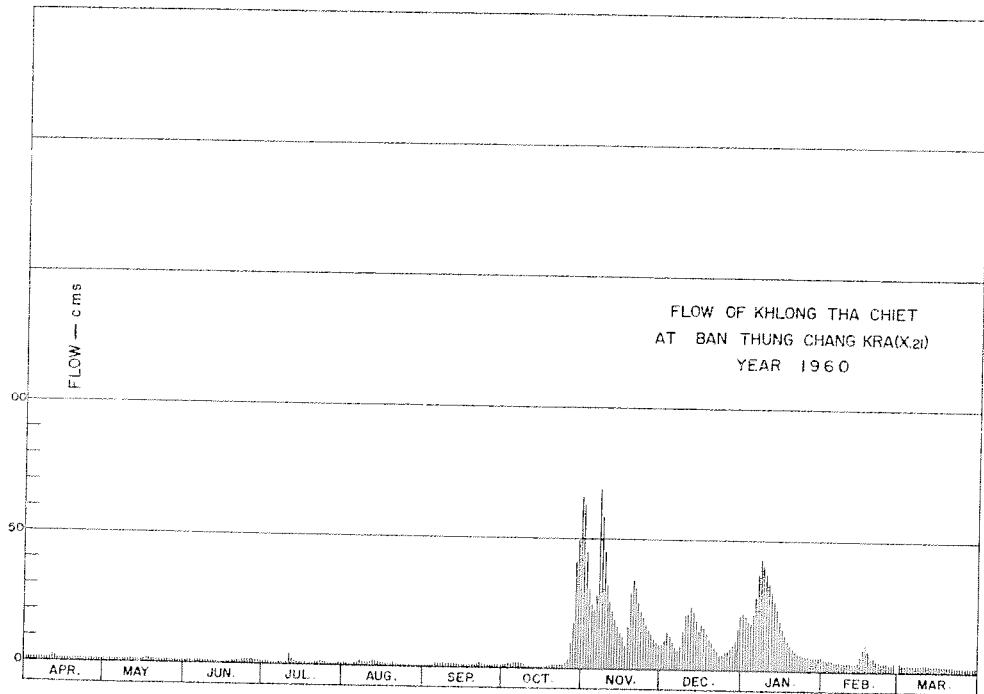
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960 - 65. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.95	19.89	19.86	19.83	19.78	19.78	19.91	22.60	20.88	21.58	20.43	20.22
2	.95	.88	.84	.83	.84	.77	.88	.11	21.00	.47	.40	.20
3	.94	.90	.83	.83	.80	.76	.90	21.80	.16	.36	.38	.19
4	.95	.90	.82	.83	.78	.82	.98	.52	.02	.37	.37	.17
5	.95	.89	.86	.82	.83	20.00	20.08	.62	20.86	.61	.34	.16
6	19.95	19.91	19.93	19.82	19.90	19.92	20.05	21.99	20.73	21.84	20.32	20.15
7	.95	.89	.89	.85	20.06	.87	19.98	23.06	.65	22.11	.30	.14
8	.93	.87	.86	.83	19.98	.94	.91	22.57	.83	.32	.29	.13
9	.94	.86	.85	.82	.91	.88	.83	.12	21.23	.27	.27	.13
10	.96	.85	.85	.86	.93	.91	.80	21.84	.57	.11	.27	.15
11	20.19	19.84	19.83	20.36	20.01	19.92	19.79	21.65	21.45	21.96	20.26	20.16
12	.10	.85	.82	.09	.10	.94	.78	.43	.67	.83	.24	.14
13	19.99	.88	.83	19.90	.04	.88	.77	.31	.49	.71	.24	.13
14	.96	.87	.82	.87	19.99	.87	.77	.18	.26	.54	.27	.12
15	.96	.86	.81	.84	.93	.84	.76	.07	.14	.33	.49	.11
16	19.93	20.02	19.80	19.82	19.88	19.82	19.78	20.86	21.33	21.22	20.79	20.10
17	.91	.05	.81	.85	.85	.81	.77	.73	.21	.06	.91	.09
18	.90	19.99	.82	.79	.81	.81	.78	21.22	.07	20.94	.58	.08
19	.88	.97	.80	.78	.79	.80	.95	.89	20.97	.84	.46	.05
20	.89	.93	.80	.79	.79	.82	.95	22.07	.88	.73	.47	.06
21	19.90	19.89	19.93	19.84	19.90	19.93	19.96	21.86	20.75	20.66	20.39	20.05
22	.97	.89	.90	.88	.83	.92	20.01	.66	.66	.62	.34	.04
23	.92	.90	.95	.96	.80	.85	19.98	.51	.56	.52	.30	.03
24	.90	.89	.96	.91	.82	.80	20.02	.58	.56	.52	.27	.02
25	.88	.88	20.02	.86	.82	.79	.09	.28	.65	.51	.25	.01
26	19.88	19.86	20.00	19.81	19.81	19.80	20.26	21.16	20.66	20.51	20.22	19.99
27	.87	.85	19.93	.80	.82	.79	.84	.05	.75	.51	.21	.98
28	.92	.83	.95	.82	.81	.79	21.20	20.93	.82	.51	.28	20.01
29	.90	.83	.92	.82	.80	.78	22.23	.82	.97	.51		.08
30	.90	.82	.88	.84	.79	.80	.65	.91	21.31	.50		.02
31		.84		.81	.79		.99		.54	.50		.01
Mean	19.94	19.89	19.87	19.86	19.87	19.85	20.24	21.58	21.02	21.20	20.36	20.09
Max.	20.19	20.05	20.02	20.36	20.10	20.00	22.99	23.06	21.67	22.32	20.91	20.22
Min.	19.87	19.82	19.80	19.78	19.76	19.76	19.76	20.73	20.36	20.50	20.21	19.98

WATER YEAR 1960 : Max. 23.06 m. Min. 19.76 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.30	1.06	0.94	0.82	0.82	0.64	1.14	58	9.92	22	4.60	2.96
2	1.34	1.02	0.86	0.82	0.86	0.61	1.02	35	12	20	4.30	2.60
3	1.26	1.10	0.82	0.82	0.70	0.58	1.10	27	14	18	4.12	2.54
4	1.30	1.10	0.78	0.82	0.64	0.78	1.42	21	12	18	4.03	2.42
5	1.30	1.06	0.94	0.78	0.82	1.50	1.90	23	9.64	23	3.76	2.36
6	1.30	1.14	1.22	0.78	1.10	1.18	1.75	32	7.96	28	3.58	2.30
7	1.30	1.06	1.06	0.90	1.80	0.98	1.42	69	6.76	35	3.40	2.24
8	1.22	0.98	0.94	0.82	1.42	1.26	1.14	50	9.22	42	3.32	2.18
9	1.26	0.94	0.90	0.78	1.14	1.02	0.82	36	15	40	3.16	2.18
10	1.34	0.90	0.90	0.94	1.22	1.14	0.70	28	22	35	3.16	2.30
11	2.54	0.86	0.82	3.94	1.55	1.18	0.67	24	20	31	3.08	2.36
12	2.00	0.90	0.78	1.95	2.00	1.26	0.64	19	24	24	2.92	2.24
13	1.46	1.02	0.82	1.10	1.70	1.02	0.61	17	20	25	2.92	2.18
14	1.34	0.98	0.78	0.98	1.46	0.98	0.61	15	16	21	3.16	2.12
15	1.34	0.94	0.74	0.86	1.22	0.86	0.58	13	14	17	5.20	2.06
16	1.22	1.60	0.74	0.78	1.02	0.78	0.64	9.64	17	15	8.68	2.00
17	1.14	1.75	0.74	0.90	0.90	0.74	0.61	7.96	15	13	10	1.95
18	1.10	1.46	0.78	0.67	0.74	0.74	0.64	15	13	11	6.18	1.90
19	1.02	1.38	0.70	0.64	0.67	0.70	1.30	30	11	9.36	4.90	1.75
20	1.06	1.22	0.70	0.67	0.58	0.78	1.30	34	9.92	7.96	5.00	1.80
21	1.10	1.06	1.22	0.86	1.10	1.22	1.34	29	8.20	7.12	4.21	1.75
22	1.38	1.06	1.10	1.02	0.82	1.18	11	24	7.12	6.64	3.76	1.70
23	1.18	1.10	1.30	1.34	0.70	0.90	1.42	21	5.95	5.52	3.40	1.65
24	1.10	1.06	1.34	1.14	0.78	0.70	1.60	18	5.96	5.52	3.16	1.60
25	1.02	1.02	1.60	0.94	0.78	0.67	1.95	16	7.00	5.41	3.00	1.55
26	1.02	0.94	1.50	0.74	0.74	0.70	3.08	14	7.12	5.41	2.76	1.46
27	0.98	0.90	1.22	0.70	0.78	0.67	9.36	12	8.20	5.41	2.68	1.42
28	1.18	0.82	1.30	0.78	0.74	0.67	15	11	9.08	5.41	3.24	1.55
29	1.10	0.82	1.18	0.78	0.70	0.64	39	9.08	11	5.41	1.60	1.60
30	1.10	0.78	1.02	0.86	0.67	0.70	53	10	17	5.30	1.60	1.60
31		0.86		0.74	0.67		66		21	5.30		1.55
Total	38.30	32.89	29.74	30.79	30.84	26.78	213.31	727.68	365.06	521.77	115.68	61.67
Mean	1.28	1.06	0.991	0.993	0.995	0.895	6.88	24.3	12.4	16.8	4.13	1.99
Max.	2.54	1.75	1.60	3.94	2.60	1.50	66	69	24	42	10	2.76
Min.	0.98	0.78	0.70	0.64	0.58	0.58	66	69	24	42	10	2.76
Runoff - mcm.	3.309	2.842	2.570	2.660	2.665	2.314	18.430	62.871	33.355	45.081	9.995	5.328

WATER YEAR 1960 : Max. 69 Min. 0.58 Mean 6.07 Annual Runoff 191.420 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 7		23.12	71				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
KHLONG AI TO RIVER BASIN

Khlong Tha Chiat at Ban Thung Chang Kra, Phatthalung (X.21)

Location: Lat 07° - 20' - 58" N, Long 100° - 06' - 40" E, at Ban Thung Chang Kra, Tambon Ta Mote, Amphoe Khao Chaison, Phatthalung.

Drainage Area: 176 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.40 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: Near the upper gage.
Elevation: +25.244 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: 1959 to date.

Rating Operation:

Period of Rating: 1960 to date.
Rated by Float: -
Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

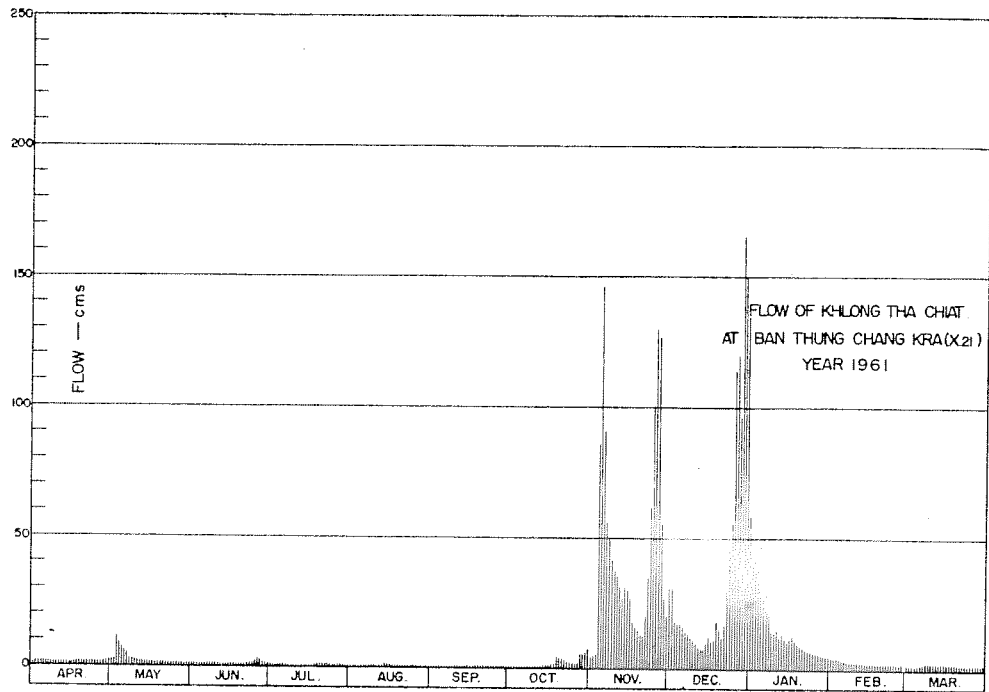
Overbank Flow Conditions: Overbank flow were observed for some periods but not included for flow computation due to the insufficiency of field data.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960 - 63. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.00	20.17	19.92	19.94	19.83	19.76	19.76	20.46	21.96	22.46	20.46	20.10
2	.01	.11	.92	.92	.81	.75	.75	.48	.95	.24	.45	.09
3	.02	21.03	.91	.91	.80	.75	.76	.56	.41	.47	.48	.08
4	.02	20.86	.91	.89	.80	.76	.79	23.71	.34	.38	.41	.07
5	.02	.63	.90	.88	.81	.75	.83	24.59	.37	.55	.38	.06
6	20.02	20.54	19.90	19.87	19.78	19.77	19.81	11.80	21.25	22.13	20.34	20.08
7	.01	.40	.89	.86	.78	.77	.80	.71	.13	21.92	.51	.18
8	.00	.30	.88	.86	.85	.76	.82	.49	.16	.61	.30	.20
9	19.99	.26	.89	.85	.97	.75	.80	.21	.02	.23	.28	.23
10	.99	.22	.90	.84	.86	.74	.79	.18	20.93	.15	.27	.20
11	19.98	20.19	19.89	19.83	19.83	19.75	19.84	22.10	20.85	21.20	20.26	20.19
12	.98	.15	.88	.83	.81	.76	.83	21.90	.77	.05	.25	.17
13	.97	.11	.88	.84	.83	.77	.83	.79	.71	.12	.24	.18
14	.99	.10	.87	.84	.91	.79	.87	.95	.67	.05	.23	.17
15	.99	.09	.86	.84	.87	.80	.92	.85	.81	20.95	.22	.18
16	19.99	20.06	19.88	19.83	19.83	19.81	20.03	21.73	21.01	20.97	20.21	20.16
17	.97	.03	.86	.83	.82	.81	.01	.35	20.93	21.07	.20	.14
18	.97	.01	.85	.85	.81	.80	19.95	.24	.97	.01	.18	.13
19	20.04	.02	.88	.99	.80	.79	20.40	.15	21.42	20.92	.17	.13
20	.04	.02	.90	20.00	.79	.78	.32	.06	.21	.87	.16	.06
21	20.00	20.00	19.89	19.93	19.79	19.78	20.34	21.02	21.00	20.81	20.15	20.07
22	19.98	19.98	.91	.91	.78	.77	.27	.22	.13	.75	.16	.05
23	.97	.96	20.01	.90	.78	.78	.20	.71	.57	.69	.16	.03
24	20.01	.95	.07	.88	.77	.77	.15	22.71	22.02	.67	.15	.01
25	.05	.96	.21	.87	.77	.76	.13	23.71	.21	.63	.14	.00
26	20.08	19.95	20.30	19.89	19.76	19.77	20.11	24.32	23.11	20.59	20.14	19.98
27	.07	.95	.17	.90	.78	.78	.11	.24	24.17	.55	.16	20.03
28	.07	.94	.08	.88	.79	.79	.51	22.19	22.97	.53	.12	.07
29	.15	.94	19.99	.84	.78	.78	.50	.48	24.91	.50		.07
30	.17	.93	.96	.83	.76	.77	.55	21.23	.05	.48		.05
31		.93		.83	.76		.68		23.35	.47		.03
Mean	20.02	20.15	19.94	19.88	19.81	19.77	20.05	22.10	21.72	21.19	20.25	20.10
Max.	20.17	21.03	20.30	20.00	19.97	19.81	20.68	24.59	24.91	22.55	20.48	20.23
Min.	19.97	19.93	19.85	19.83	19.76	19.74	19.75	20.46	20.67	20.47	20.12	19.98

WATER YEAR 1961 : Max. 24.91 m. Min. 19.74 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.50	2.42	1.18	1.26	0.82	0.58	0.58	4.90	31	46	4.90	2.00
2	1.55	2.06	1.18	1.18	0.74	0.55	0.55	5.10	31	39	4.80	1.95
3	1.60	12	1.14	1.14	0.70	0.55	0.58	596	19	47	4.60	1.90
4	1.60	9.64	1.14	1.06	0.70	0.58	0.67	97	17	44	4.40	1.85
5	1.60	6.76	1.10	1.02	0.74	0.55	0.82	146	18	49	4.12	1.80
6	1.60	5.74	1.10	0.98	0.64	0.61	0.74	58	16	36	3.76	1.90
7	1.55	4.30	1.06	0.94	0.60	0.61	0.70	55	14	30	3.49	2.18
8	1.50	3.40	1.02	0.94	0.90	0.58	0.78	47	14	23	3.40	2.60
9	1.46	3.08	1.06	0.90	1.38	0.55	0.70	38	12	15	3.24	2.84
10	1.46	2.76	1.10	0.86	0.94	0.52	0.67	38	11	14	3.16	2.60
11	1.42	2.54	1.06	0.82	0.82	0.55	0.86	35	9.50	15	3.08	2.54
12	1.42	2.30	1.02	0.82	0.74	0.58	0.82	30	8.44	12	3.00	2.42
13	1.38	2.06	1.02	0.86	0.82	0.61	0.82	27	7.72	14	2.92	2.48
14	1.46	2.00	0.98	0.86	1.14	0.67	0.98	31	7.24	12	2.84	2.42
15	1.46	1.95	0.94	0.86	0.98	0.70	1.18	29	8.94	11	2.76	2.48
16	1.46	1.80	1.02	0.82	0.82	0.74	1.65	26	12	11	2.68	2.36
17	1.38	1.65	0.94	0.82	0.78	0.74	1.55	18	11	13	2.60	2.24
18	1.38	1.55	0.90	0.90	0.74	0.70	1.30	16	11	12	2.48	2.18
19	1.70	1.60	1.02	1.46	0.70	0.67	4.30	14	19	10	2.42	2.18
20	1.70	1.60	1.10	1.50	0.67	0.64	3.58	13	15	9.78	2.36	1.80
21	1.50	1.50	1.06	1.22	0.67	0.64	3.76	12	12	8.94	2.30	1.85
22	1.42	1.42	1.14	1.14	0.64	0.61	3.16	15	14	8.20	2.36	1.75
23	1.38	1.34	1.55	1.10	0.64	0.64	2.60	25	22	7.48	2.36	1.65
24	1.55	1.30	1.85	1.02	0.61	0.61	2.30	55	33	7.24	22.30	1.55
25	1.75	1.34	2.68	0.98	0.61	0.58	2.18	97	38	6.76	2.24	1.50
26	1.90	1.30	3.40	1.06	0.58	0.61	2.06	130	71	6.29	2.24	1.42
27	1.85	1.30	2.42	1.10	0.64	0.64	2.06	125	121	5.85	2.36	1.65
28	1.85	1.26	1.90	1.02	0.67	0.67	5.41	38	65	5.63	2.12	1.85
29	2.30	1.26	1.46	0.86	0.64	0.64	5.30	47	165	5.30		1.85
30	2.42	1.22	1.34	0.82	0.58	0.61	5.85	15	115	5.10		1.75
31		1.22		0.82	0.58		7.36		81	5.00		1.65
Total	48.10	85.67	39.88	31.14	23.27	18.53	65.87	1,292.96	1,029.84	534.57	85.29	63.19
Mean	1.60	2.76	1.33	1.00	0.751	0.618	2.12	43.1	33.2	17.2	3.05	2.04
Max.	2.42	12	3.40	1.50	1.38	0.74	7.36	146	165	49	4.90	2.84
Min.	1.38	1.22	0.90	0.82	0.58	0.52	0.55	4.90	7.24	5.00	2.12	1.42
Runoff - mcm.	4.156	7.402	3.445	2.690	2.001	1.601	5.691	111.712	88.978	46.187	7.369	5.460

WATER YEAR 1961 : Max. 165 Min. 0.55 Mean 9.09 Annual Runoff 26,702 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 29	12.00	25.10	178				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1962
KHLONG AI TO RIVER BASIN

Khlung Tha Chiat at Ban Thung Chang Kra, Phatthalung (X.21)

Location: Lat $07^{\circ} - 20' - 58''$ N, Long $100^{\circ} - 06' - 40''$ E, at Ban Thung Chang Kra, Tambon Ta Mote, Amphoe Khao Chaison, Phatthalung.

Drainage Area: 176 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.40 m.(M.S.L.)

Bench Mark: B.M. - H.S.

Location: Near the upper gage.

Elevation: +25.244 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: 1959 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: Overbank flow were observed for some periods but not included for flow computation due to the insufficiency of field data.

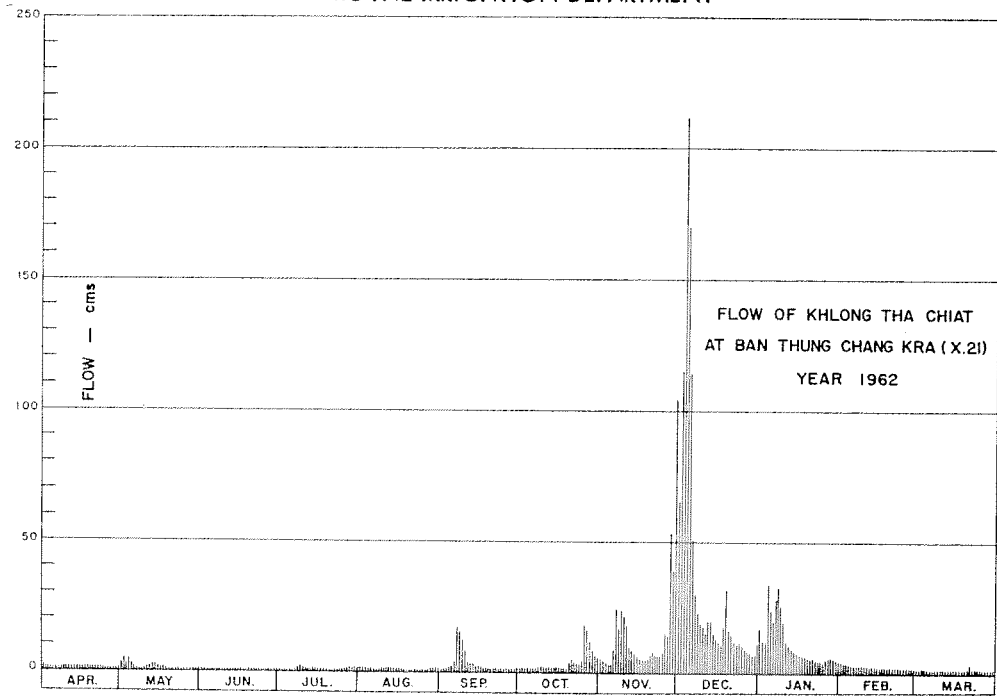
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960 - 63. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.02	20.30	19.85	19.77	19.98	19.87	19.96	20.51	23.00	21.30	20.40	20.10
2	.00	.46	.83	.76	.97	.88	20.04	.43	24.17	.01	.37	.09
3	19.98	.22	.83	.75	.95	.98	.04	.33	25.59	.04	.34	.13
4	.96	.44	.82	.76	.93	20.07	.01	.26	.03	22.06	.31	.11
5	.94	.20	.82	.76	.91	.22	19.97	.25	23.95	21.70	.30	.09
6	19.93	20.05	19.81	19.77	19.89	20.48	19.95	20.86	22.58	21.45	20.29	20.07
7	.92	19.93	.81	.78	.86	21.30	20.02	21.68	21.96	.81	.27	.06
8	.91	.83	.80	20.09	.84	.26	.03	.32	.67	22.02	.26	.06
9	.90	.81	.79	.12	.90	.11	.16	.66	.45	21.69	.26	.05
10	.90	.94	.79	.00	.93	20.91	.16	.55	.33	.43	.26	.04
11	19.98	20.03	19.78	19.90	19.94	20.37	20.12	21.39	21.23	21.10	20.25	20.03
12	20.00	.09	.78	.83	.96	.27	.08	20.99	.45	20.94	.23	.03
13	19.93	.21	.77	.88	.98	.27	.06	.80	.46	.85	.22	.03
14	.90	.16	.76	.89	20.00	.24	.02	.65	.23	.78	.20	.01
15	.92	.08	.76	.89	.04	.18	.04	.57	.10	.72	.19	.01
16	19.94	20.01	19.77	19.88	19.99	20.13	20.04	20.50	21.01	20.68	20.18	20.01
17	.92	19.96	.78	.87	.89	.08	19.96	.44	20.95	.65	.17	.00
18	.89	.92	.80	.86	.82	.03	.99	.43	21.38	.62	.16	.00
19	.88	.90	.80	.85	.81	.00	20.05	.46	.98	.58	.18	19.99
20	.90	.88	.81	.84	.80	19.98	.30	.62	.39	.55	.18	20.03
21	19.90	19.80	19.82	19.84	19.77	19.96	20.47	20.77	21.21	20.51	20.15	20.36
22	.90	.87	.82	.83	.75	.94	.34	.62	.09	.48	.14	.09
23	.89	.86	.83	.85	.74	.93	.27	.60	20.98	.46	.13	.05
24	.88	.86	.82	.86	.70	.92	.26	.57	21.04	.47	.12	.01
25	.87	.85	.81	.89	.75	.90	.41	.69	20.96	.46	.11	.00
26	19.86	19.84	19.81	19.90	19.83	19.88	21.42	21.22	20.85	20.52	20.11	19.99
27	.85	.84	.80	.90	.88	.88	.27	.12	.79	.56	.11	.98
28	.84	.88	.79	.95	.97	.90	.03	22.69	.72	.57	.11	.97
29	.84	.86	.78	.97	.94	.91	20.80	.23	.67	.50		.96
30	20.06	.85	.77	.97	.90	.93	.64	23.87	.63	.46		.95
31		.86		.99	.88		.56		21.00	.44		.95
Mean	19.92	19.99	19.80	19.88	19.89	20.20	20.27	21.00	21.74	20.92	20.21	20.04
Max.	20.06	20.46	19.85	20.12	20.04	21.30	21.42	23.87	25.59	22.06	20.40	20.36
Min.	19.84	19.80	19.76	19.75	19.70	19.87	19.95	20.25	20.63	20.44	20.11	19.95

WATER YEAR 1962 : Max. 25.59 m. Min. 19.70 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.60	3.40	0.90	0.61	1.42	0.98	1.34	5.41	66	17	4.30	2.00
2	1.50	4.90	0.82	0.58	1.38	1.02	1.70	4.60	121	12	4.03	1.95
3	1.42	2.76	0.82	0.55	1.30	1.42	1.70	3.67	212	12	3.76	2.18
4	1.34	4.70	0.78	0.58	1.22	1.85	1.55	3.08	173	34	3.49	2.06
5	1.26	2.60	0.78	0.58	1.14	2.76	1.38	3.00	109	25	3.40	1.95
6	1.22	1.75	0.74	0.61	1.06	5.10	1.30	9.64	50	20	3.32	1.85
7	1.18	1.22	0.74	0.64	0.94	17	1.60	25	31	28	3.16	1.80
8	1.14	0.82	0.70	1.95	0.86	16	1.65	17	24	33	3.08	1.80
9	1.10	0.74	0.67	2.12	1.10	13	2.36	24	20	25	3.08	1.75
10	1.10	1.26	0.67	1.50	1.22	10	2.36	22	17	19	3.08	1.70
11	1.42	1.65	0.64	1.10	1.26	4.03	2.12	18	15	13	3.00	1.65
12	1.50	1.95	0.64	0.82	1.34	3.16	1.90	10	20	11	2.84	1.65
13	1.22	2.68	0.61	1.02	1.42	3.16	1.80	8.80	20	9.50	2.76	1.65
14	1.10	2.36	0.58	1.06	1.50	2.92	1.60	7.00	15	8.56	2.60	1.55
15	1.18	1.90	0.58	1.06	1.70	2.48	1.70	6.07	13	7.84	2.54	1.55
16	1.28	1.55	0.61	1.02	1.46	2.18	1.70	5.30	12	7.36	2.48	1.55
17	1.18	1.34	0.64	0.98	1.06	1.90	1.34	4.70	11	7.00	2.42	1.50
18	1.06	1.18	0.70	0.94	0.78	1.65	1.46	4.60	18	6.64	2.36	1.50
19	1.02	1.10	0.70	0.90	0.74	1.50	1.75	4.90	32	6.18	2.48	1.46
20	1.10	1.02	0.74	0.86	0.70	1.42	3.40	6.64	18	5.85	2.48	1.65
21	1.10	0.70	0.78	0.86	0.61	1.34	5.00	8.44	15	5.41	2.30	3.94
22	1.10	0.98	0.78	0.82	0.55	1.26	3.76	6.64	13	5.10	2.24	1.95
23	1.06	0.94	0.82	0.90	0.52	1.22	3.16	6.40	11	4.90	2.18	1.75
24	1.02	0.94	0.78	0.94	0.40	1.18	3.08	6.07	12	5.00	2.12	1.55
25	0.98	0.90	0.74	1.06	0.55	1.10	4.40	7.48	11	4.90	2.06	1.50
26	0.94	0.86	0.74	1.10	0.82	1.02	19	15	9.50	5.52	2.06	1.46
27	0.90	0.86	0.70	1.10	1.02	1.02	16	14	8.68	5.96	2.06	1.42
28	0.86	1.02	0.67	1.30	1.38	1.10	12	54	7.84	6.07	2.06	1.38
29	0.86	0.94	0.64	1.38	1.26	1.14	8.80	39	7.24	5.30		1.34
30	1.80	0.90	0.61	1.38	1.10	1.22	6.88	105	6.76	4.90		1.30
31		0.94		1.46	1.02		5.96		12	4.70		1.30
Total	35.52	50.86	21.32	31.78	32.83	105.13	123.75	455.44	1,111.02	365.69	77.74	53.64
Mean	1.18	1.64	0.71	1.02	1.06	3.50	3.99	15.2	35.8	11.8	2.78	1.73
Max.	1.80	4.90	0.90	2.12	1.70	17	19	105	212	34	4.30	3.94
Min.	0.86	0.70	0.58	0.55	0.40	0.98	1.30	3.00	6.76	1.70	2.06	1.30
Runoff - mcm.	3.069	4.394	1.842	2.746	2.837	9.083	10.692	39.350	95.992	31.596	6.717	4.634

WATER YEAR 1962 : Max. 212 Min. 0.40 Mean 6.75 Annual Runoff 212.952 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 3	01.00	25.77	226				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
KHLONG PHYA HONG RIVER BASIN

Khlong Phya Hong at Ban Charat, Phatthalung (X.23)

Location: Lat $07^{\circ} - 27' - 36''$ N, Long $99^{\circ} - 58' - 06''$ E, on left bank about 1 kilometer downstream from the confluence of Khlong Khao Ta Khrai with Khlong Lai Pham at Ban Phya Hong, Amphoe Muang, Phatthalung.

Drainage Area: 63 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank 150 meters downstream side of gage site.

Elevation: +2.989 m.(A.D.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hourly.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1959 to date.

Rating Operation:

Period of Rating: 1963

Rated by float: -

Rated by Current Meter: 1963

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: -

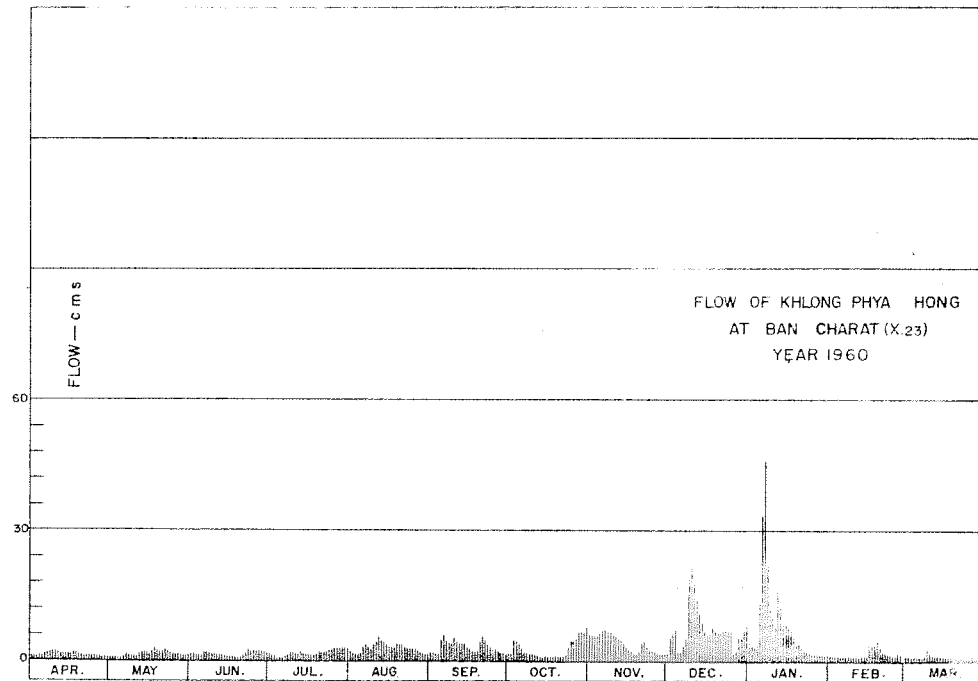
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.83	0.81	0.97	0.96	1.03	0.98	0.95	1.26	0.95	1.18	0.89	0.84
2	.84	.79	.94	.92	.00	.98	.94	.24	1.23	.15	.88	.83
3	.83	.78	.92	.86	0.98	.94	1.20	.23	.27	.10	.87	.82
4	.84	.78	.89	.80	.95	.91	.19	.26	.16	.10	.87	.81
5	.85	.78	.86	.79	.98	1.20	.14	.28	0.99	.14	.86	.81
6	0.91	0.84	1.00	0.77	1.10	1.25	1.07	1.31	0.98	2.01	0.85	0.80
7	.94	.96	.01	.82	.13	.18	.03	.31	1.13	.21	.85	.80
8	1.00	.91	.00	.90	.10	.16	0.99	.29	.20	1.80	.84	.87
9	0.98	.88	0.97	1.01	.04	.16	.95	.28	.71	.50	.84	1.04
10	.99	.85	.94	0.99	.15	.22	.93	.26	.79	.43	.84	0.96
11	0.98	0.86	0.92	0.98	1.17	1.18	0.91	1.24	1.68	1.34	0.84	0.87
12	.96	.94	.90	.95	.24	.16	.89	.21	.58	.62	.83	.84
13	.93	.99	.90	1.01	.19	.16	.87	.18	.48	.52	.84	.82
14	.92	1.00	.89	0.98	.18	.16	.85	.14	.38	.38	.85	.81
15	.91	0.99	.86	.95	.14	.10	.85	.09	.29	.37	.89	.80
16	0.91	0.97	0.84	0.91	1.11	1.06	0.88	1.05	1.24	1.34	1.13	0.79
17	.98	1.01	.82	.89	.09	.02	.87	.03	.27	.31	.29	.79
18	.96	.06	.80	.89	.09	0.99	.86	.05	.19	.26	.26	.78
19	.91	.02	.78	.91	.15	.98	.88	.05	.13	.19	.19	.78
20	.89	.01	.81	1.02	.14	1.17	.86	.08	.11	.15	.11	.76
21	0.88	1.00	0.89	0.99	1.13	1.25	0.85	1.15	1.11	1.09	1.01	0.75
22	.87	.04	.88	.99	.10	.19	.86	.17	.14	.04	0.96	.74
23	.88	.01	1.04	1.02	.08	.13	.89	.09	.16	.00	.92	.74
24	.87	0.98	.05	.04	.08	.10	1.07	.06	.14	0.98	.89	.73
25	.86	.96	.03	.04	.07	.06	.19	.03	.13	.96	.87	.73
26	0.85	0.94	1.02	1.06	1.06	1.04	1.19	1.02	0.97	0.95	0.85	0.81
27	.84	.92	.02	.07	.03	.02	.20	0.97	.99	.93	.99	.72
28	.83	.90	.03	.08	0.98	.00	.29	.95	1.23	.92	.94	.71
29	.82	.89	.00	.09	.95	0.98	.30	.93	.23	.91		.74
30	.82	.88	0.99	.09	.96	.96	.28	.94	.32	.90		.71
31		.89		.08	.93		.31		.35	.90		.70
Mean	0.90	0.92	0.93	0.96	1.07	1.09	1.02	1.14	1.24	1.25	0.94	0.80
Max.	1.00	1.06	1.04	1.09	1.24	1.25	1.31	1.31	1.79	2.21	1.29	1.04
Min.	0.82	0.78	0.78	0.77	0.93	0.91	0.85	0.93	0.95	0.90	0.83	0.70

WATER YEAR 1960 : Max. 2.21 m. Min. 0.70 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.88	0.76	1.79	1.72	2.36	1.86	1.65	6.00	1.65	4.48	1.24	0.94
2	0.94	0.67	1.58	1.44	2.00	1.86	1.58	5.60	5.40	4.00	1.18	0.88
3	0.88	0.64	1.44	1.06	1.86	1.58	4.80	5.40	6.20	3.20	1.12	0.82
4	0.94	0.64	1.24	0.70	1.72	1.37	4.64	6.00	4.16	3.20	1.12	0.76
5	1.00	0.64	1.06	0.67	1.86	4.80	3.84	6.40	1.93	3.84	1.06	0.76
6	1.37	0.94	2.00	0.61	3.20	5.80	2.84	7.02	1.86	33	1.00	0.70
7	1.58	1.72	2.12	0.82	3.68	4.48	2.36	7.02	3.68	46	1.00	0.70
8	2.00	1.37	2.00	1.30	3.20	4.16	1.93	6.60	4.80	22	0.94	1.12
9	1.86	1.18	1.79	2.12	2.48	4.16	1.65	6.40	19	12	0.94	2.48
10	1.93	1.00	1.58	1.93	4.00	5.20	1.51	6.00	22	9.84	0.94	1.72
11	1.86	1.06	1.44	1.86	4.30	4.48	1.37	5.60	18	7.68	0.94	1.12
12	1.72	1.58	1.30	1.65	5.60	4.16	1.24	5.00	14	16	0.88	0.94
13	1.51	1.93	1.30	2.12	4.64	4.16	1.12	4.48	11	12	0.94	0.82
14	1.44	2.00	1.24	1.86	4.48	4.16	1.00	3.84	8.56	8.56	1.00	0.76
15	1.37	1.93	1.06	1.65	3.84	3.20	1.00	3.08	6.60	8.34	1.24	0.70
16	1.37	1.79	0.94	1.37	3.36	2.72	1.18	2.60	5.60	7.68	3.68	0.67
17	1.86	2.12	0.82	1.24	3.08	2.24	1.12	2.36	6.20	7.02	6.60	0.67
18	1.72	2.72	0.70	1.24	3.08	1.93	1.06	2.60	4.64	6.00	6.00	0.64
19	1.37	2.24	0.64	1.37	4.00	1.86	1.18	2.60	3.68	4.64	4.64	0.64
20	1.24	2.12	0.76	2.24	3.84	4.32	1.06	2.96	3.36	4.00	3.36	0.58
21	1.18	2.00	1.24	1.93	3.68	5.80	1.00	4.00	3.36	3.08	2.12	0.55
22	1.12	2.48	1.18	1.93	3.20	4.64	1.06	4.32	3.84	2.48	1.72	0.52
23	1.18	2.12	2.48	2.24	2.96	3.68	1.24	3.08	4.16	2.00	1.44	0.52
24	1.12	1.86	2.36	2.48	2.96	3.20	2.84	2.72	3.84	1.86	1.24	0.49
25	1.06	1.72	2.36	2.48	2.84	2.72	4.64	2.36	3.68	1.72	1.12	0.49
26	1.00	1.58	2.24	2.72	2.72	2.48	4.64	2.24	1.79	1.65	1.00	0.76
27	0.94	1.44	2.24	2.84	2.36	2.24	4.80	1.79	1.93	1.51	1.93	0.46
28	0.88	1.30	2.36	2.96	1.86	2.00	6.60	1.65	5.40	1.44	1.58	0.43
29	0.82	1.24	2.00	3.08	1.65	1.86	6.80	1.51	5.40	1.37		0.52
30	0.82	1.18	1.93	3.08	1.72	1.72	6.40	1.58	7.24	1.30		0.43
31		1.24		2.96	1.51		7.62		7.90	1.30		0.40
Total	38.96	47.21	47.19	57.67	94.06	98.84	85.77	122.81	200.86	243.19	51.97	23.99
Mean	1.30	1.52	1.57	1.86	3.03	3.29	2.77	4.09	6.48	7.84	1.86	0.77
Max.	2.00	2.72	2.48	3.08	5.60	5.80	7.62	7.02	22	46	6.60	2.48
Min.	0.82	0.64	0.64	0.61	1.51	1.37	1.00	1.51	1.65	1.30	0.88	0.40
Runoff - mcm.	3.366	4.079	4.077	4.983	8.127	8.540	7.410	10.611	17.354	21.012	4.490	2.073

WATER YEAR 1960 : Max. 46 Min. 0.40 Mean 3.05 Annual Runoff 96.122 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jan. 7	18.00	2.30	53				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1961
KHLONG PHYA HONG RIVER BASIN

Khlong Phya Hong at Ban Charat, Phatthalung (X.23)

Location: Lat $07^{\circ}-27' - 36''$ N, Long $99^{\circ}-58' - 06''$ E, on left bank about 1 kilometer downstream from the confluence of Khlong Khao Ta Khrai with Khlong Lai Pham at Ban Phya Hong, Amphoe Muang, Phatthalung.

Drainage Area: 63 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank 150 meters downstream side of gage site.
Elevation: +2.989 m.(A.D.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hourly.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1959 to date.

Rating Operation:

Period of Rating: 1963
Rated by Float: -
Rated by Current Meter: 1963

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions:

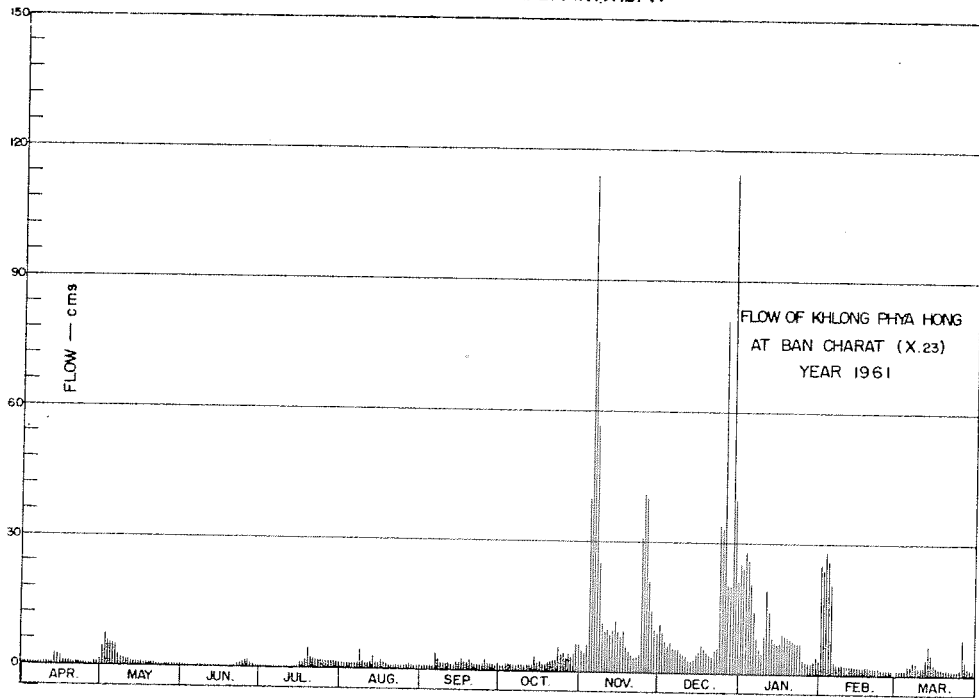
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1												
2	0.71	1.17	0.68	0.65	0.92	0.82	0.88	1.20	1.49	1.86	1.09	0.86
3	.71	.32	.68	.65	.91	.84	.88	.19	.41	.83	.12	.86
4	.71	.24	.67	.64	.91	.85	.95	.27	.31	.92	.15	.87
5	.70	.22	.65	.63	.90	.86	.94	2.11	.26	.87	.11	.87
6								.92	.31	.76	.05	.99
7	0.70	1.20	0.65	0.62	0.90	1.14	0.89	2.57	1.23	1.56	1.04	0.98
8	.70	.08	.64	.61	.91	.07	.88	.24	.22	.37	.02	1.08
9	.69	0.99	.64	.61	1.18	0.94	.95	1.85	.23	.25	.01	.08
10	.68	.94	.63	.61	0.96	.95	.95	.49	.19	.19	.01	0.96
11								.41	.16	.41	.00	.94
12	0.67	0.91	0.62	0.61	0.90	0.91	0.91	1.43	1.13	1.72	1.00	0.94
13	.65	.87	.62	.62	.93	.90	.89	.39	.08	.58	0.99	1.13
14	1.04	.86	.62	.63	1.09	.88	.93	.43	.05	.35	.98	.30
15	.03	.85	.62	.61	0.97	1.00	1.12	.52	.10	.30	.97	.18
16								.41	.16	.30	.97	.03
17	0.87	0.81	0.62	0.91	1.01	1.08	1.02	1.37	1.20	1.31	0.96	0.97
18	.83	.80	.61	.91	.96	0.98	0.94	.28	.27	.40	.95	.92
19	.84	.77	.61	1.02	.90	.95	.94	.25	.23	.38	.94	.90
20	.79	.82	.61	.18	.88	1.04	.98	.20	.20	.23	.95	.88
21								.14	.16	.20	.92	.87
22	.76	.79	.61	.06	.87	0.95	1.03					
23	0.78	0.78	0.61	1.01	0.87	0.91	1.05	1.11	1.13	1.18	0.90	0.85
24	.77	.76	.86	.00	.87	.90	.05	.09	.22	.16	.89	.84
25	.75	.74	.81	0.99	.87	.91	.24	.13	.26	.16	.89	.83
26	.75	.72	.89	.99	.86	.93	.15	.97	2.02	.16	.88	.85
27	.73	.71	.97	.99	.87	1.05	.18	2.09	.00	.06	.87	.84
28	0.69	0.72	0.96	0.97	0.88	0.95	1.08	2.11	2.62	1.05	0.87	1.36
29	.67	.72	.83	.95	.90	.93	.16	1.76	1.75	.04	.87	.10
30	.84	.70	.78	.93	.87	.91	.11	.56	.73	.03	.86	0.95
31	.82	.70	.72	.96	.86	.90	.15	.44	2.93	.08		.88
	.97	.69	.67	.94	.85	.89	.28	.40	.12	.15		.87
		.69		.93	.84		.27		1.73	.11		.86
Mean	0.78	0.89	0.69	0.81	0.91	0.94	1.02	1.58	1.45	1.35	0.97	0.96
Max.	1.04	1.32	0.97	1.18	1.18	1.14	1.28	2.92	2.93	1.92	1.15	1.36
Min.	0.65	0.69	0.61	0.61	0.84	0.82	0.88	1.09	1.05	1.03	0.86	0.83

WATER YEAR 1961 : Max. 2.93 m. Min. 0.61 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.43	4.32	0.36	0.30	1.44	0.82	1.18	4.80	11	25	3.08	1.06
2	0.43	7.24	0.36	0.30	1.37	0.94	1.18	4.64	9.28	24	3.52	1.06
3	0.43	5.60	0.34	0.28	1.37	1.00	1.65	6.20	7.02	28	4.00	1.12
4	0.43	5.60	0.32	0.28	1.37	1.06	1.58	40	6.00	26	3.36	1.12
5	0.40	5.20	0.30	0.26	1.30	1.06	1.44	114	7.02	21	2.60	1.93
6	0.40	4.80	0.30	0.24	1.30	3.84	1.24	76	5.40	14	2.48	1.86
7	0.40	2.96	0.28	0.22	1.37	2.84	1.18	49	5.20	8.34	2.24	2.96
8	0.38	1.93	0.28	0.22	4.48	1.58	1.65	25	5.40	5.80	2.12	2.96
9	0.38	1.72	0.26	0.22	1.72	1.65	1.51	11	4.64	4.64	2.12	1.72
10	0.36	1.58	0.26	0.22	1.37	1.51	1.30	9.28	4.16	9.28	2.00	1.58
11	0.34	1.37	0.24	0.22	1.30	1.37	1.37	9.84	3.68	19	2.00	1.58
12	0.30	1.12	0.24	0.24	1.51	1.30	1.24	8.78	2.96	14	1.93	3.68
13	2.48	1.06	0.24	0.26	3.08	1.18	1.51	9.84	2.60	7.90	1.86	6.80
14	2.36	1.00	0.24	0.22	1.79	2.00	3.52	12	3.20	6.80	1.79	4.48
15	2.36	0.94	0.24	0.55	1.37	1.79	1.86	9.28	4.16	6.80	1.79	2.36
16	1.12	0.76	0.24	1.37	2.12	2.96	2.24	8.34	4.80	7.02	1.72	1.79
17	0.88	0.70	0.22	1.37	1.72	1.86	1.58	6.40	6.20	9.00	1.65	1.44
18	0.94	0.61	0.22	2.24	1.30	1.65	1.58	5.80	5.40	8.56	1.58	1.30
19	0.67	0.82	0.22	4.48	1.18	2.48	1.86	4.80	4.80	5.40	1.51	1.18
20	0.58	0.67	0.22	2.72	1.12	1.65	2.36	3.84	4.16	4.80	1.44	1.12
21	0.64	0.64	0.22	2.12	1.12	1.37	2.60	3.36	3.68	4.48	1.30	1.00
22	0.61	0.58	1.06	2.00	1.12	1.30	2.60	3.08	5.20	4.16	1.24	0.94
23	0.55	0.52	0.76	1.93	1.12	1.37	5.60	3.68	6.00	4.16	1.24	0.88
24	0.55	0.46	1.24	1.93	1.06	1.51	4.00	31	34	4.16	1.18	0.88
25	0.49	0.43	1.79	1.93	1.12	2.60	4.48	38	33	2.72	1.12	0.94
26	0.38	0.46	1.72	1.79	1.18	1.65	2.96	40	81	2.60	1.12	8.12
27	0.34	0.46	0.88	1.65	1.30	1.51	4.16	21	20	2.48	1.12	3.20
28	0.94	0.40	0.64	1.51	1.12	1.37	3.36	14	20	2.36	1.06	1.65
29	0.82	0.40	0.46	1.72	1.06	1.30	4.00	10	115	2.96	1.06	1.18
30	1.79	0.38	0.34	1.58	1.00	1.24	6.40	9.00	40	4.00	1.12	1.18
31		0.38		1.51	0.94		6.20		20	3.36		1.06
Total	23.18	54.51	14.49	35.88	45.72	49.76	79.39	591.96	484.96	292.78	54.17	64.07
Mean	0.77	1.76	0.48	1.16	1.47	1.66	2.56	19.7	15.6	9.44	1.93	2.07
Max.	2.48	7.24	1.79	4.48	4.48	3.84	6.40	114	115	28	4.00	8.12
Min.	0.30	0.38	0.22	0.22	0.94	0.82	1.18	3.08	2.60	2.36	1.06	0.88
Runoff - mcm.	2.003	4.710	1.252	3.100	3.950	4.299	6.859	51.145	41.900	25.296	4.680	5.536

WATER YEAR 1961 : Max. 114 Min. 0.22 Mean 4.91 Annual Runoff 151.731 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 29	06.00	3.15	144				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
KHLONG PHYA HONG RIVER BASIN

Khlong Phya Hong at Ban Charat, Phatthalung (X.23)

Location: Lat $07^{\circ} - 27' - 36''$ N, Long $99^{\circ} - 58' - 06''$ E, on left bank about 1 kilometer downstream from the confluence of Khlong Khao Ta Khrai with Khlong Lai Pham at Ban Phya Hong, Amphoe Muang, Phatthalung.

Drainage Area: 63 sq.km. referred to AMS Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On left bank 150 meters downstream side of gage site.

Elevation: +2.989 m.(A.D.)

Gage Reading Frequency: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hourly.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1959 to date.

Rating Operation:

Period of Rating: 1963

Rated by Float: -

Rated by Current Meter: 1963

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation for years without actual ratings.

Overbank Flow Conditions: -

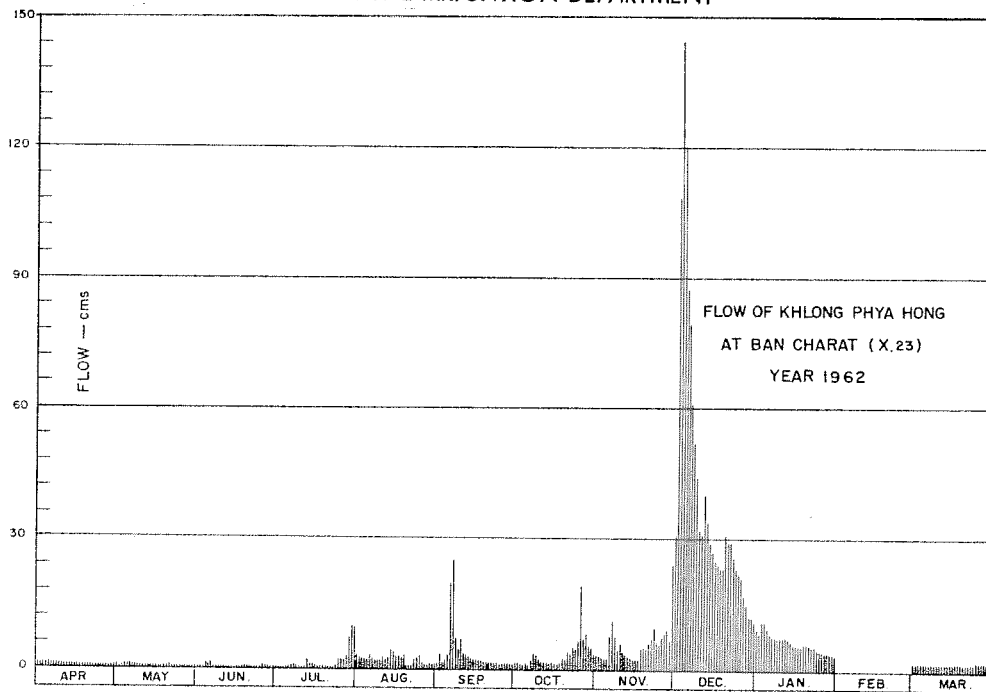
General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1963. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.84	0.83	0.68	0.70	1.09	0.91	0.93	1.09	1.96	1.40		0.92
2	.83	.73	.67	.68	.04	1.12	.90	.07	2.87	.36		.92
3	.82	.76	.67	.66	.03	0.96	.87	.04	3.15	.46		.92
4	.81	.82	.89	.66	.02	1.01	.88	.02	2.97	.46		.92
5	.81	.79	.84	.71	.01	.12	.89	.01	.74	.42		.91
6	0.80	0.82	0.92	0.77	1.11	1.75	0.88	1.34	2.60	1.36		0.91
7	.79	.81	.71	.81	.02	.86	1.00	.46	.40	.34		.91
8	.79	.78	.68	.86	.00	.32	.13	.33	.28	.32		.91
9	.78	.75	.68	.79	0.99	.17	.09	.18	.17	.31		.91
10	.77	.74	.67	.76	1.03	.14	.02	.26	1.98	.29		.91
11	0.77	0.75	0.67	0.73	1.08	1.12	0.97	1.16	1.97	1.29		0.90
12	.76	.73	.66	.73	.03	.10	.94	.12	2.11	.32		.90
13	.76	.72	.66	1.00	.06	.05	.92	.06	2.02	.29		.90
14	.76	.72	.66	0.87	.18	.03	.91	.04	1.93	.28		.90
15	.75	.70	.66	.84	.16	.01	.90	.03	.90	.25		.90
16	0.75	0.70	0.65	0.78	1.07	0.99	0.89	1.02	1.86	1.24		0.90
17	.75	.69	.65	.76	.08	.98	.88	.02	.84	.23		.90
18	.74	.69	.66	.74	.04	.97	.93	.20	.82	.22		.89
19	.74	.73	.69	.72	.11	.96	1.04	.07	.82	.25		.89
20	.74	.74	.68	.70	0.80	.94	.02	.18	.96	.25		.87
21	0.74	0.77	0.67	0.69	0.77	0.93	1.15	1.09	1.94	1.23		0.87
22	.73	.74	.66	.68	.81	.91	.12	.14	.93	.22		.89
23	.73	.71	.66	.67	1.01	.90	.21	.42	.87	.22		.89
24	.72	.70	.65	.78	.04	.89	.19	.28	.81	.19		.89
25	.72	.69	.73	1.02	.09	.88	.30	.23	.80	.17		.95
26	0.72	0.68	0.79	1.01	0.94	0.88	1.72	1.33	1.76	1.15		0.94
27	.71	.68	.77	.01	.83	.88	.30	.37	.67	.14		.91
28	.71	.68	.75	.07	.82	.88	.36	.40	.61	.13		.91
29	.71	.67	.73	.34	.86	.88	.22	.28	.52	.13		.90
30	.71	.67	.73	.44	.87	.89	.20	.84	.51	.12		.90
31		.68		.43	.88		.11		.46	.12		.91
Mean	0.76	0.73	0.71	0.85	0.99	1.05	1.06	1.20	2.04	1.26		0.90
Max.	0.84	0.83	0.92	1.44	1.11	1.86	1.72	1.84	3.15	1.46		0.95
Min.	0.71	0.67	0.65	0.66	0.77	0.88	0.87	1.01	1.46	1.12		0.87

WATER YEAR 1962 : Max. 3.15 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.94	0.88	0.36	0.40	3.08	1.37	1.51	3.08	31	9.00		1.44
2	0.88	0.49	0.34	0.36	2.48	3.52	1.30	2.84	108	8.12		1.44
3	0.82	0.58	0.34	0.32	2.36	1.72	1.12	2.48	144	11		1.44
4	0.76	0.82	1.24	0.32	2.24	2.12	1.18	2.24	120	11		1.44
5	0.76	0.67	0.94	0.43	2.12	3.52	1.24	2.12	93	9.56		1.37
6	0.70	0.82	1.44	0.61	3.36	20	1.18	7.68	79	8.12		1.37
7	0.67	0.76	0.43	0.76	2.24	25	2.00	11	61	7.68		1.37
8	0.67	0.64	0.36	1.06	2.00	7.24	3.68	7.46	52	7.24		1.37
9	0.64	0.55	0.36	0.67	1.93	4.32	3.08	4.48	44	7.02		1.37
10	0.61	0.52	0.34	0.58	2.36	3.84	2.24	6.00	32	6.60		1.37
11	0.61	0.55	0.34	0.49	2.96	3.52	1.79	4.16	31	6.60		1.30
12	0.58	0.49	0.32	0.49	2.36	3.20	1.58	3.52	40	7.24		1.30
13	0.58	0.46	0.32	2.00	2.72	2.60	1.44	2.72	34	6.60		1.30
14	0.58	0.46	0.32	1.12	4.48	2.36	1.37	2.48	29	6.40		1.30
15	0.55	0.40	0.32	0.94	4.16	2.12	1.30	2.36	27	5.80		1.30
16	0.55	0.40	0.30	0.64	2.84	1.93	1.24	2.24	25	5.60		1.30
17	0.55	0.38	0.30	0.58	2.96	1.86	1.18	2.24	24	5.40		1.30
18	0.52	0.38	0.32	0.52	2.48	1.79	1.51	4.80	23	5.20		1.24
19	0.52	0.49	0.38	0.46	2.36	1.72	2.48	2.84	23	5.80		1.24
20	0.52	0.52	0.36	0.40	0.70	1.58	2.24	4.48	31	5.80		1.12
21	0.52	0.61	0.34	0.38	0.61	1.51	4.00	3.08	29	5.40		1.12
22	0.49	0.52	0.32	0.36	0.76	1.37	3.52	3.84	29	5.20		1.24
23	0.49	0.43	0.32	0.34	2.12	1.30	5.00	9.56	26	5.20		1.24
24	0.46	0.40	0.30	0.64	2.48	1.24	4.64	6.40	23	4.64		1.24
25	0.46	0.38	0.49	2.24	3.08	1.18	6.80	5.40	22	4.32		1.65
26	0.46	0.36	0.67	2.12	1.58	1.18	19	7.46	21	4.00		1.58
27	0.43	0.36	0.61	2.12	0.88	1.18	6.80	8.34	17	3.84		1.37
28	0.43	0.36	0.55	2.84	0.82	1.18	8.12	9.00	15	3.68		1.37
29	0.43	0.34	0.49	2.68	1.06	1.18	5.20	6.40	12	3.52		1.30
30	0.43	0.34	0.49	10	1.12	1.24	4.80	24	12	3.52		1.30
31		0.36		9.84	1.18		3.36		11			1.37
Total	17.61	15.72	14.33	51.71	68.88	107.89	105.90	164.70	1,268	192.78		41.46
Mean	0.59	0.51	0.48	1.66	2.22	3.60	3.42	5.49	40.9	6.22		1.34
Max.	0.94	0.88	1.44	10	4.48	25	19	24	144	11		1.65
Min.	0.43	0.34	0.30	0.32	0.61	1.18	1.12	2.12	11	3.52		1.12
Runoff - mcm.	1.521	1.358	1.238	4.468	5.951	9.322	9.150	14.230	109.555	16.656		3.582

WATER YEAR 1962 : Max. 144 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.3	06.00	3.15	144				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1960
KHLONG THE PHA RIVER BASIN

Khlong Thepha at Ban Huai Prak Pring, Songkhla (X.27)

Location: 07°- 35' - 24" N, Long 100°- 00' - 04" E, on right bank at Ban Huai Prak Pring, 8 kilometers upstream from state railway bridge, Amphoe Thepha, Songkhla.

Drainage Area: 1,449 sq.km. referred to GSGS 4218 Map 1:253,440.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On right bank near the camp of station X.27
Elevation: B.M.1 + 9.596 m.(A.D.), B.M.2 + 6.348 m.(A.D.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: No overbank flow.

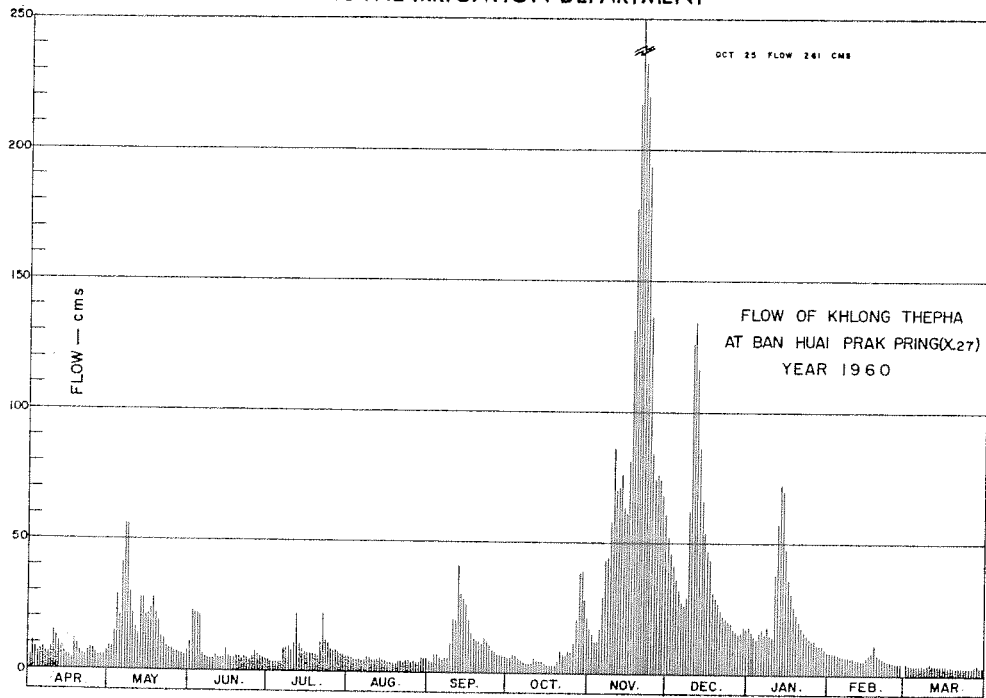
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.12	1.40	1.51	0.97	1.08	0.97	1.11	1.88	3.25	2.12	1.44	1.05
2	.56	.42	.24	.94	.05	.95	.16	.73	.06	1.98	.41	.03
3	.41	.57	.19	.92	.02	1.19	.21	.58	2.94	.86	.38	.02
4	.39	2.54	.13	.90	.00	.19	.15	.61	.84	.79	.34	.00
5	.33	.21	.11	.94	0.98	.06	.09	.85	.66	.92	.32	.00
6	1.34	2.79	1.14	1.17	0.97	1.02	1.04	2.45	2.51	2.00	1.29	0.98
7	.25	3.51	.09	.37	.98	.05	.02	3.19	.48	1.93	.27	.98
8	.20	.30	.05	.36	1.10	.03	0.97	.17	.69	2.04	.26	.97
9	.35	2.61	.03	.41	.05	.43	.95	.69	3.75	1.91	.24	1.00
10	.76	.13	.02	.24	0.98	2.03	.95	4.44	5.16	.81	.23	.05
11	1.69	1.85	1.12	1.46	0.97	1.99	1.11	4.28	5.31	2.93	1.21	1.01
12	.59	.75	.05	2.14	.97	3.05	.06	.27	4.93	3.77	.20	.00
13	.41	2.43	.02	1.55	1.03	2.60	0.99	.33	4.16	4.16	.18	0.98
14	.26	.43	.04	.35	.00	.54	1.00	3.98	3.63	.11	.18	.96
15	.17	.13	.28	.24	0.95	.48	0.96	.73	.28	3.47	.24	.95
16	1.11	2.16	1.15	1.17	0.92	2.04	0.92	4.37	3.09	2.89	1.36	0.93
17	.08	.29	.06	.20	.90	1.79	.89	5.37	2.96	.62	.39	.92
18	.60	.50	.04	.21	.88	.69	.88	6.10	.76	.43	.54	.94
19	.55	.18	.09	.14	.87	.62	.87	.58	.59	.28	.37	.93
20	.30	1.87	.07	.08	.94	.54	.98	7.12	.45	.16	.27	.93
21	1.19	1.70	1.02	1.64	0.96	1.53	1.35	6.79	2.32	2.05	1.23	0.91
22	.13	.54	.08	2.11	.94	.62	.27	.62	.23	1.96	.20	.90
23	.29	.46	.04	1.60	1.01	.57	.18	.22	.19	.88	.17	.88
24	.35	.39	.00	.47	0.95	.46	.35	5.35	.14	.80	.15	.88
25	.34	.33	.04	.33	.93	.36	.30	4.38	.08	.74	.12	.87
26	1.27	1.28	1.23	1.29	0.94	1.27	1.51	4.09	2.02	1.69	1.10	0.89
27	.16	.25	.17	.30	.94	.20	.97	.12	1.94	.64	.08	.94
28	.18	.21	.07	.28	.95	.15	2.93	.04	.91	.60	.06	.99
29	.17	.16	.04	.21	1.06	.11	3.01	3.86	.96	.56		.92
30	.25	.14	.01	.16	.05	.08	2.44	.58	2.03	.52		.89
31		.25		.12	.02		.07		.06	.47		.87
Mean	1.32	1.93	1.10	1.30	0.98	1.55	1.31	4.16	2.88	2.23	1.26	0.95
Max.	1.76	3.51	1.51	2.14	1.10	3.05	3.01	7.12	5.31	4.16	1.54	1.05
Min.	1.08	1.14	1.00	0.90	0.87	0.95	0.87	1.58	1.91	1.47	1.06	0.87

WATER YEAR 1960 : Max. 7.12 m. Min. 0.87 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1960 TO MARCH 31, 1961

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.31	9.00	11	4.24	5.19	4.04	5.65	17	52	18	8.15	4.04
2	11	9.00	6.84	3.85	5.19	3.85	5.77	15	45	16	7.86	3.85
3	8.43	15	6.47	3.48	4.77	6.60	6.84	12	40	14	7.86	3.76
4	6.84	29	5.89	3.29	4.60	6.72	6.47	12	36	13	7.72	3.48
5	7.72	20	5.54	3.85	4.60	5.08	5.08	17	32	15	7.53	3.48
6	8.01	41	6.23	3.67	4.24	4.87	4.55	29	27	16	6.84	3.20
7	6.97	55	5.31	8.86	4.34	5.19	3.94	43	26	15	6.72	3.39
8	6.35	56	4.87	9.00	5.65	5.19	3.57	44	29	18	6.60	3.29
9	8.33	31	4.34	9.58	5.19	11	3.39	60	62	15	6.35	3.76
10	14	22	4.34	7.21	4.45	20	3.39	86	126	14	6.23	4.24
11	13	16	5.54	11	4.13	20	5.54	70	134	38	5.89	3.85
12	11	14	4.87	22	4.34	41	4.77	71	116	56	5.77	3.67
13	8.43	28	4.60	11	4.98	30	4.13	76	86	71	5.42	3.29
14	6.35	28	4.77	8.43	4.55	28	4.04	63	66	70	5.31	3.20
15	5.77	21	7.86	7.46	4.04	26	3.12	61	53	48	6.12	3.20
16	4.98	22	5.19	6.60	3.76	21	2.86	81	47	35	7.33	3.12
17	4.55	24	4.98	6.72	3.39	15	2.70	131	43	30	8.29	2.78
18	12	28	4.87	6.97	3.13	13	2.70	177	31	26	10	2.95
19	10	22	5.54	6.00	3.03	12	2.61	217	29	23	7.58	2.86
20	7.21	18	5.19	5.54	4.04	12	3.94	261	27	20	6.60	2.78
21	6.00	13	4.60	16	4.04	11	8.01	233	24	18	6.00	2.61
22	5.54	12	5.31	22	3.85	13	6.72	220	22	16	5.42	2.61
23	7.21	9.44	4.87	12	4.55	12	6.12	193	21	15	5.42	2.44
24	8.01	8.43	4.34	10	4.24	10	8.43	136	20	14	5.19	2.44
25	8.01	8.15	4.98	8.72	3.85	8.86	7.21	84	19	13	4.87	2.36
26	6.60	7.46	4.60	8.01	4.13	7.58	11	74	17	13	4.55	2.53
27	5.65	7.09	5.31	8.15	3.85	6.97	20	76	16	11	4.45	3.03
28	5.77	6.84	4.87	7.72	3.94	6.60	38	74	14	11	4.24	3.57
29	5.89	6.00	4.34	6.84	5.19	6.12	39	68	15	10		2.70
30	7.09	5.54	4.98	6.47	5.31	6.00	28	61	18	9.73		2.44
31		7.65		5.89	4.98		21		17	8.57		2.28
Total	232.02	599.60	162.44	260.55	135.53	378.67	278.75	2,762	1,310	710.30	180.11	97.20
Mean	7.73	19.3	5.41	8.40	4.37	12.6	8.99	92.1	42.2	22.9	6.43	3.13
Max.	14	56	11	22	5.65	41	39	261	134	71	10	4.24
Min.	4.55	5.54	4.34	3.29	3.03	3.85	2.61	12	14	8.57	4.24	2.28
Runoff - mcm.	20.046	51.805	14.035	22.511	11.710	32.717	24.081	238.637	113.184	61.370	15.561	8.398

WATER YEAR 1960 : Max. 261 Min. 2.28 Mean 19.5 Annual Runoff 614.059 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 20	08.00	7.20	266				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1961
KHLONG THE PHA RIVER BASIN

Khlung Thepha at Ban Huai Prak Pring, Songkhla (X.27)

Location: Lat $07^{\circ} - 35' - 24''$ N, Long $100^{\circ} - 00' - 04''$ E, on right bank at Ban Huai Prak Pring, 8 kilometers upstream from state railway bridge, Amphoe Thepha, Songkhla.

Drainage Area: 1,449 sq.km. referred to GSGS 4218 Map 1:253,440.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On right bank near the camp of station X.27

Elevation: B.M.1 + 9.596 m.(A.D.), B.M.2 + 6.348 m.(A.D.).

Gage Reading frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Rather unstable, shifting adjustment and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: No overbank flow.

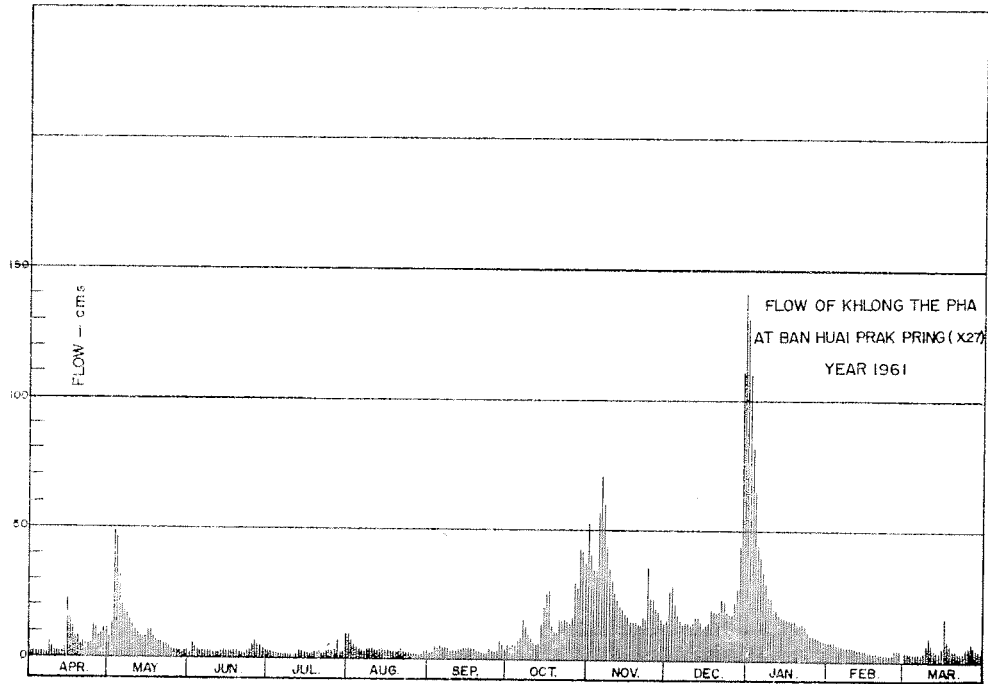
General Description: Records good. The data presented is made by discharge measurements during 1960. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.86	1.37	0.96	0.91	1.42	0.85	1.08	3.63	1.92	5.67	1.30	0.96
2	.85	.74	1.21	.89	.24	.90	.08	.24	2.46	.25	.27	.95
3	.84	3.40	.10	.87	.11	1.06	.16	2.80	.45	4.64	.25	.93
4	.84	.31	.02	.86	.03	0.99	.12	.89	.22	3.98	.24	.93
5	.83	2.70	0.99	.84	0.98	1.09	.21	3.73	.03	.40	.22	.92
6	0.83	2.13	0.98	0.82	0.94	1.06	1.37	4.09	1.92	3.03	1.20	0.92
7	.83	.01	1.01	.81	.92	.06	.90	3.80	.81	2.75	.18	.92
8	1.20	1.92	0.98	.80	.94	.02	.74	.27	.83	.56	.16	.95
9	.02	.85	.94	.79	.96	0.97	.49	2.94	.84	.40	.14	1.21
10	0.91	.73	.92	.78	.97	.94	.28	.67	.79	.27	.12	.47
11	0.88	1.63	0.90	0.79	0.94	0.91	1.16	2.46	1.82	2.17	1.10	1.21
12	.85	.48	.91	.80	.94	.96	.10	.29	.96	.16	.08	.06
13	.87	.39	.96	.88	.97	.99	.13	.15	.98	.11	.06	.00
14	1.02	.35	1.02	.91	.97	1.01	.84	.10	.83	.02	.04	0.97
15	2.23	.35	0.96	.85	.95	.02	2.10	.01	.77	1.95	.02	1.13
16	1.95	1.44	0.92	0.82	0.93	1.03	1.89	1.91	1.82	1.94	1.01	1.96
17	.60	.54	.92	.81	.91	.01	.91	.82	.89	.98	0.99	.36
18	.33	.39	.95	.84	.91	0.97	.74	.74	2.08	.93	.98	.18
19	.39	.27	.92	.87	.90	.91	.56	.75	.06	.89	.97	.08
20	.25	.20	.89	.93	.90	.88	.62	.75	.08	.82	.96	.01
21	1.18	1.14	0.88	0.93	0.95	0.86	1.89	1.67	2.08	1.75	0.96	0.97
22	.13	.11	.87	.87	.92	.86	.81	.87	.28	.69	.95	.93
23	.11	.08	.90	.86	.87	.85	.90	2.90	.31	.63	.94	.92
24	.18	.05	.94	.90	.84	.98	.85	.77	.05	.57	.93	1.12
25	.74	.02	1.16	.89	.82	.94	.81	.35	.01	.52	.92	.18
26	1.63	1.00	1.26	0.93	0.80	0.93	1.91	2.19	2.02	1.48	1.03	1.28
27	.39	0.98	.20	.96	.79	.95	2.66	.02	.24	.45	.04	.18
28	.44	.96	.10	1.31	.78	1.21	.44	1.89	.39	.42	.03	.09
29	.65	.95	0.99	.77	.80	.07	3.07	.79	3.38	.38		.02
30	.58	.95	.95	.87	.90	.00	.16	.72	5.15	.34		0.97
31		.95		.53	.88		2.93		.73	.32		.94
Mean	1.21	1.53	0.99	0.96	0.94	0.98	1.77	2.47	2.29	2.34	1.07	1.09
Max.	2.23	3.40	1.26	1.87	1.42	1.21	3.16	4.09	5.73	5.67	1.30	1.96
Min.	0.83	0.95	0.87	0.78	0.78	0.85	1.08	1.67	1.77	1.32	0.92	0.92

WATER YEAR 1961 : Max. 5.73 m. Min. 0.78 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1961 TO MARCH 31, 1962

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.28	7.80	3.40	3.16	9.90	2.68	6.00	53	16	131	7.68	3.50
2	2.20	14	6.24	3.08	7.68	3.24	5.16	41	27	110	7.44	3.48
3	2.12	49	4.80	2.84	5.76	5.04	6.84	35	29	82	7.08	3.32
4	2.20	46	3.80	2.76	4.80	4.32	6.24	35	22	65	6.84	3.32
5	2.12	32	3.40	2.36	4.44	5.52	7.20	60	18	45	6.36	3.24
6	2.04	19	3.32	2.28	3.72	4.92	8.50	71	16	40	6.12	3.24
7	1.96	19	3.72	2.20	3.64	5.28	16	60	14	34	5.88	3.24
8	6.60	17	3.40	2.20	4.04	4.68	13	44	15	30	5.64	3.48
9	4.20	15	3.16	1.96	4.32	3.96	9.90	36	15	25	5.76	6.24
10	2.60	13	2.92	1.96	4.20	3.88	8.92	31	14	24	5.52	9.62
11	2.60	11	2.60	2.04	3.88	3.40	6.72	26	15	22	5.40	6.24
12	2.20	9.76	2.92	2.20	3.88	4.12	6.00	23	17	22	4.92	4.44
13	2.92	8.50	3.32	3.32	4.20	4.32	6.12	21	17	18	4.68	3.88
14	4.12	8.08	3.56	3.32	4.20	4.56	15	20	15	17	4.32	3.64
15	22	8.36	3.48	2.68	3.80	4.56	21	18	13	17	4.04	5.28
16	17	11	3.00	2.52	3.64	4.80	16	17	14	16	3.96	17
17	12	11	3.24	2.36	3.48	4.44	17	15	15	16	3.64	8.08
18	8.08	9.06	3.72	2.92	3.48	4.12	13	15	20	16	3.40	5.88
19	8.36	7.08	3.16	3.16	3.32	3.40	11	15	19	16	3.24	4.68
20	7.20	6.84	2.84	3.00	3.48	3.00	11	14	19	15	3.00	3.96
21	6.00	6.24	2.60	3.04	4.04	3.00	16	14	19	14	3.00	3.64
22	5.76	5.52	2.28	2.60	3.32	2.92	15	17	24	15	2.92	3.32
23	5.40	5.28	3.24	2.76	3.00	2.92	16	35	23	14	2.84	3.24
24	5.76	4.32	3.40	3.24	2.68	4.12	15	36	19	11	2.68	5.16
25	13	3.72	5.64	3.32	2.28	3.80	14	24	18	10	2.52	5.88
26	12	3.40	7.32	3.80	2.20	3.60	17	24	18	9.76	4.44	7.08
27	8.78	3.48	5.88	4.04	2.12	3.88	30	20	24	9.62	4.32	5.88
28	10	3.24	5.28	7.80	1.96	7.32	28	18	28	8.78	4.12	4.80
29	12	2.92	4.32	15	2.20	5.52	43	16	44	8.50		4.04
30	12	3.08	3.56	16	3.16	4.44	42	15	111	7.80		3.64
31		3.16	10	3.00			37		141	7.20		3.40
Total	205.50	366.84	113.52	124.12	119.82	125.96	483.60	869	819	876.66	131.76	155.90
Mean	6.85	11.8	3.78	4.00	3.86	4.20	15.6	29.0	26.4	28.3	4.70	5.03
Max.	22	49	7.32	16	9.90	7.32	43	71	141	131	7.68	17
Min.	1.96	2.92	1.96	1.96	1.96	2.68	5.16	14	13	7.20	2.52	3.24
Runoff - MCM.	17.755	31.695	9.808	10.726	10.352	10.883	41.785	75.082	70.762	75.743	11.384	13.470

WATER YEAR 1961 : Max. 141 Min. 1.96 Mean 12.0 Annual Runoff 379.441 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 31	18.00	5.79	145				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1962
KHLONG THEPHA RIVER BASIN

Khlung Thepha at Ban Huai Prak Pring, Songkhla (X.27)

Location: Lat $07^{\circ}-35'-24''$ N, Long $100^{\circ}-00'-04''$ E, on right bank at Ban Huai Prak Pring, 8 kilometers upstream from state railway bridge, Amphoe Thepha, Songkhla.

Drainage Area: 1,449 sq.km. referred to GSGS 4218 Map 1:253,440.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.00 m.(A.D.)

Bench Mark: B.M. - H.S.

Location: On right bank near the camp of station X.27

Elevation: B.M.1 + 9.596 m.(A.D.), B.M.2 + 6.348 m.(A.D.)

Gage Reading Frequency: 24 hourly readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 hourly readings.

Period of Available Gage Records: 1960 to date.

Rating Operation:

Period of Rating: 1960 to date.

Rated by Float: -

Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation for years without actual ratings.

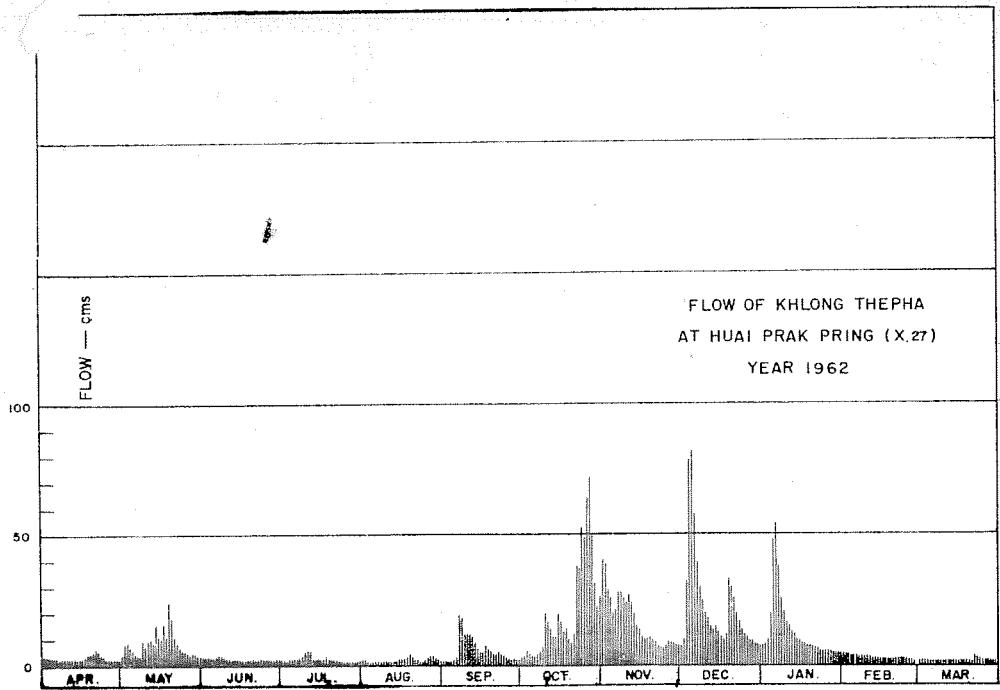
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship used is defined by discharge measurements during 1960 - 63. No state diversions above gage site.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.91	0.98	0.92	0.76	0.78	0.72	0.88	3.01	1.26	1.32	1.03	0.74
2	.89	1.36	.90	.75	.76	.71	.96	2.97	.57	.38	.01	.74
3	.86	.40	.88	.73	.73	.70	1.15	.53	2.70	.46	0.99	.74
4	.85	.23	.87	.81	.72	.73	.03	.39	4.25	2.12	.97	.73
5	.83	.15	.86	.85	.71	.81	0.96	.12	.37	3.32	.95	.72
6	0.82	1.05	0.89	0.83	0.70	0.95	0.96	2.22	3.62	3.51	0.93	0.72
7	.81	0.97	.98	.84	.68	2.06	.99	.51	.00	2.95	.92	0.71
8	.84	.94	.96	.88	.71	.02	1.10	.51	2.62	.43	.91	.71
9	.85	1.41	.90	.97	.71	1.62	.30	.41	.34	.14	.90	.70
10	.82	.29	.85	1.10	.69	.64	2.11	.31	.13	1.95	.89	.70
11	0.81	1.42	0.82	1.11	0.67	1.62	1.94	2.48	1.97	1.81	0.88	0.69
12	.80	.49	.80	0.93	.67	.55	.74	.32	.84	.70	.86	.69
13	.79	.36	.81	.86	.69	.39	.56	.09	.77	.61	.85	.68
14	.79	.84	.79	.82	.70	.22	.55	1.80	.82	.52	.84	.68
15	.78	.55	.77	.81	.80	.12	2.05	.75	.69	.45	.84	.68
16	0.83	1.52	0.76	0.80	0.85	1.12	1.94	1.58	1.57	1.39	0.83	0.67
17	.89	.86	.75	.85	.84	.30	.72	.48	.49	.34	.83	.67
18	1.01	.59	.75	.88	.93	.24	.75	.48	.60	.31	.82	.66
19	.05	2.32	.76	.83	.98	.13	.52	.55	2.72	.29	.81	.66
20	.06	.02	.81	.79	.92	.06	.38	.49	.58	.27	.80	.66
21	1.23	1.57	0.81	0.77	0.84	0.99	1.69	1.40	2.42	1.23	0.79	0.67
22	.10	.35	.79	.74	.78	1.07	2.95	.31	.13	.20	.79	.88
23	0.96	.25	.85	.73	.75	.00	.88	.25	1.91	.16	.78	.83
24	.89	.16	.84	.72	.74	0.95	3.48	.24	.75	.15	.77	.76
25	.85	.09	.82	.70	.79	.91	.35	.33	.63	.12	.76	.75
26	0.82	1.03	0.80	0.69	0.90	0.86	3.86	1.42	1.54	1.11	0.75	0.74
27	.79	.00	.81	.69	.96	.84	4.08	.40	.47	.09	.75	.72
28	.78	.06	.80	.68	.88	.82	3.39	.34	.41	.08	.74	.71
29	.77	.03	.79	.67	.82	.81	2.66	.32	.34	.07	.69	.69
30	.78	0.97	.77	.67	.77	.82	.27	.28	.29	.06	.67	.67
31		.94		.68	.75		.47		.26	.04		.67
Mean	0.87	1.33	0.83	0.80	0.78	1.13	1.99	1.88	2.10	1.60	0.86	0.71
Max.	1.23	2.32	0.98	1.11	0.98	2.06	4.08	3.01	4.37	3.51	1.03	0.88
Min.	0.77	0.94	0.75	0.67	0.67	0.70	0.88	1.24	1.26	1.04	0.74	0.66

WATER YEAR 1962 : Max. 4.37 m. Min. 0.66 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1962 TO MARCH 31, 1963

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.39	4.02	3.48	2.08	2.24	1.76	3.17	40	7.12	7.86	4.50	1.92
2	3.21	8.38	3.30	2.00	2.08	1.68	3.84	39	11	8.64	4.30	1.92
3	2.94	8.90	3.12	1.84	1.84	1.60	5.80	29	32	9.74	4.11	1.92
4	2.85	6.76	3.03	2.49	1.76	1.84	4.50	26	78	20	3.93	1.84
5	2.67	5.80	2.94	2.85	1.68	2.49	3.84	20	82	48	3.75	1.76
6	2.58	4.70	3.21	2.67	1.60	3.75	3.84	22	57	54	3.57	1.76
7	2.49	3.93	4.02	2.76	1.48	19	4.11	28	40	38	3.48	1.68
8	2.76	3.66	3.84	3.12	1.68	18	5.20	28	31	26	3.39	1.68
9	2.85	9.04	3.30	3.93	1.68	12	7.60	26	25	21	3.30	1.60
10	2.58	7.48	2.85	5.20	1.54	12	20	24	20	17	3.21	1.60
11	2.49	9.18	2.58	5.32	1.42	12	17	27	18	15	3.12	1.54
12	2.40	10	2.40	3.57	1.42	11	14	24	15	13	2.94	1.54
13	2.32	8.38	2.49	2.94	1.54	8.77	11	20	14	12	2.85	1.48
14	2.32	15	2.32	2.58	1.60	6.64	11	15	15	10	2.76	1.48
15	2.24	11	2.16	2.49	2.40	5.44	19	14	13	9.60	2.76	1.48
16	2.67	10	2.08	2.40	2.85	5.44	17	11	11	8.77	2.67	1.42
17	3.21	16	2.00	2.85	2.76	7.60	13	10	10	8.12	2.67	1.42
18	4.30	11	2.00	3.12	3.57	6.88	14	10	12	7.73	2.58	1.36
19	4.70	24	2.08	2.67	4.02	5.56	10	11	33	7.48	2.49	1.36
20	4.80	18	2.49	2.32	3.48	4.80	8.64	10	30	7.24	2.40	1.36
21	6.76	11	2.49	2.16	2.76	4.11	13	8.90	26	6.76	2.32	1.42
22	5.20	8.25	2.32	1.92	2.24	4.90	38	7.73	20	6.40	2.32	3.12
23	3.84	7.00	2.85	1.84	2.00	4.20	37	7.00	17	5.92	2.24	2.67
24	3.21	5.92	2.76	1.76	1.92	3.75	53	6.88	14	5.80	2.16	2.08
25	2.85	5.10	2.58	1.60	2.32	3.39	49	7.99	12	5.44	2.08	2.00
26	2.58	4.50	2.40	1.54	3.30	2.94	64	9.18	11	5.32	2.00	1.92
27	2.32	4.20	2.49	1.54	3.84	2.76	72	8.90	9.88	5.10	2.00	1.76
28	2.24	4.80	2.40	1.48	3.12	2.58	50	8.12	9.04	5.00	1.92	1.68
29	2.16	4.50	2.32	1.42	2.58	2.49	31	7.86	8.12	4.90	1.54	1.54
30	2.24	3.93	2.16	1.42	2.16	2.58	23	7.36	7.48	4.80	1.42	1.42
31		3.66		1.48	2.00		27		7.12	4.60		1.42
Total	93.17	258.09	80.46	77.36	70.88	181.87	653.49	513.92	695.76	409.22	81.82	53.15
Mean	3.10	8.36	2.68	2.49	2.29	6.06	21.1	17.1	22.4	13.2	2.92	1.71
Max.	6.76	24	4.02	5.32	4.02	19	72	40	82	54	4.50	3.12
Min.	2.16	3.66	2.00	1.42	1.42	1.60	3.17	6.88	7.12	4.60	1.92	1.36
Runoff - BCM.	8.050	22.299	6.952	6.684	6.124	15.173	56.461	44.403	60.114	35.357	7.069	4.592

WATER YEAR 1962 : Max. 82 Min. 1.36 Mean 8.68 Annual Runoff 273.818 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.4	24.00	4.55	90				