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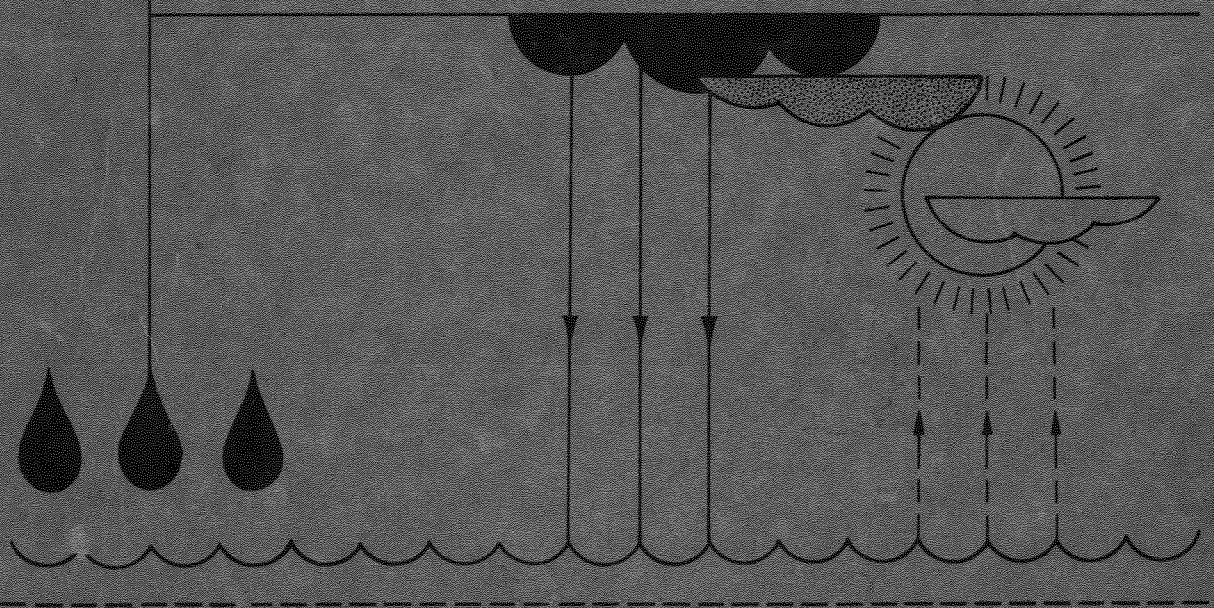
THAILAND HYDROLOGICAL YEARBOOK

WATER YEAR 1954-1956

VOLUME 4



HYDROLOGY DIVISION

ROYAL IRRIGATION DEPARTMENT

BANGKOK, THAILAND

130

Hydrology No. 372/76

FTB

THAILAND

HYDROLOGICAL YEARBOOK

VOLUME 4

WATER YEAR 1954-1956

HYDROLOGY DIVISION

ROYAL IRRIGATION DEPARTMENT

BANGKOK, THAILAND

FOREWORD

The programme of yearbook publications 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, contained the flow data as of water years 1963 and 1964. The third issue was Volume 6, published in 1973, contained the flow data as of water years 1960, 1961 and 1962. The fourth issue was Volume 5, published in 1974, contained the flow data as of water years 1957, 1958 and 1959. The fifth issue was Volume 9, published in 1975, contained the flow data as of water year 1966.

The Volume 4 of the series is the sixth issue which contains the flow data for water year 1954 to 1956. The number of flow data processed from actual calibrating sites is 27, 44 and 38 for the year 1954, 1955 and 1956 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 178, of which the data for each year is 52, 61 and 65 for the year 1954, 1955 and 1956 respectively.

Damrong Jaraswathana
Director of Hydrology Division
March 1976

ACKNOWLEDGEMENT

The editorial staff of this hydrological yearbook 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 made a great attempt in setting up procedure for yearbook publication and to adopt engineering standard, method 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 Public Relation and Printing Services Branch, Program Coordination and Budget Division, and his efficient staff whose kind assistance and co-ordinated efforts have contributed to the success of this Volume 4 issue.

Hydrology Division
March 1976

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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 hereby 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 1 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.

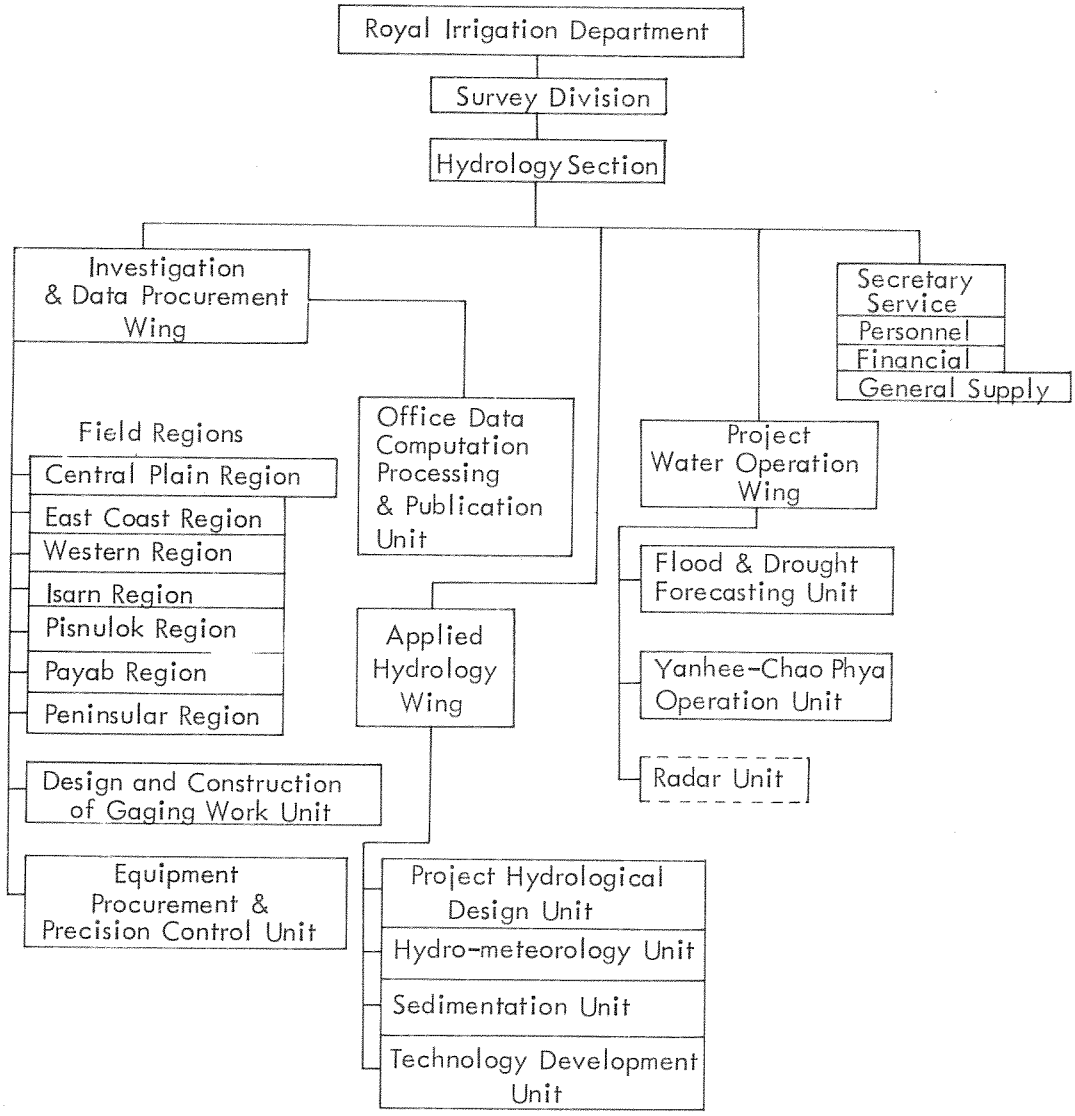
ORDER OF LISTING GAGING DATA

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 diagramatically shown below:


Royal Irrigation Department
Survey Division
Hydrology Section
Investigation & Data Procurement Wing
Secretary Service
Personnel
Financial
General Supply
Field Regions
Central Plain Region
East Coast Region
Western Region
Isarn Region
Pisnulok Region
Payab Region
Peninsular Region
Office Data Computation Processing & Publication Unit
Project Water Operation Wing
Flood & Drought Forecasting Unit
Yanhee-Chao Phya Operation Unit
Radar Unit
Applied Hydrology Wing
Design and Construction of Gaging Work Unit
Equipment Procurement & Precision Control Unit
Project Hydrological Design Unit
Hydro-meteorology Unit
Sedimentation Unit
Technology Development Unit

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 with 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 reading.

It has been found that application of 1 to 5 times average reading (for daytime) gives an error of daily mean flow not more than 15% for 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 utilization. Headwater utilization 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 degrees 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 of 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 recorder 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 YEARBOOK 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 as follows:

Volume	Years of Record	Approximate No. of Station-years
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 3 back to 1 and the Volumes 10 and further will be released in serial order.

UNIT OF MEASUREMENT USED

UNIT CONVERSION FACTORS

1 meter (m) = 39.37 inches	=	3.2808 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

STREAM GAGING DATA

WATER YEAR 1954 - 1956

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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: 6,356 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +301.19 m. (M.S.L.)

Bench Mark: B.M. of the Survey Department.
Location: On left bank at abutment of bridge.
Elevation: +306.876 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: 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: Overbank flow was observed at elev. +304.25 m. (M.S.L.) but not included for flow computation.

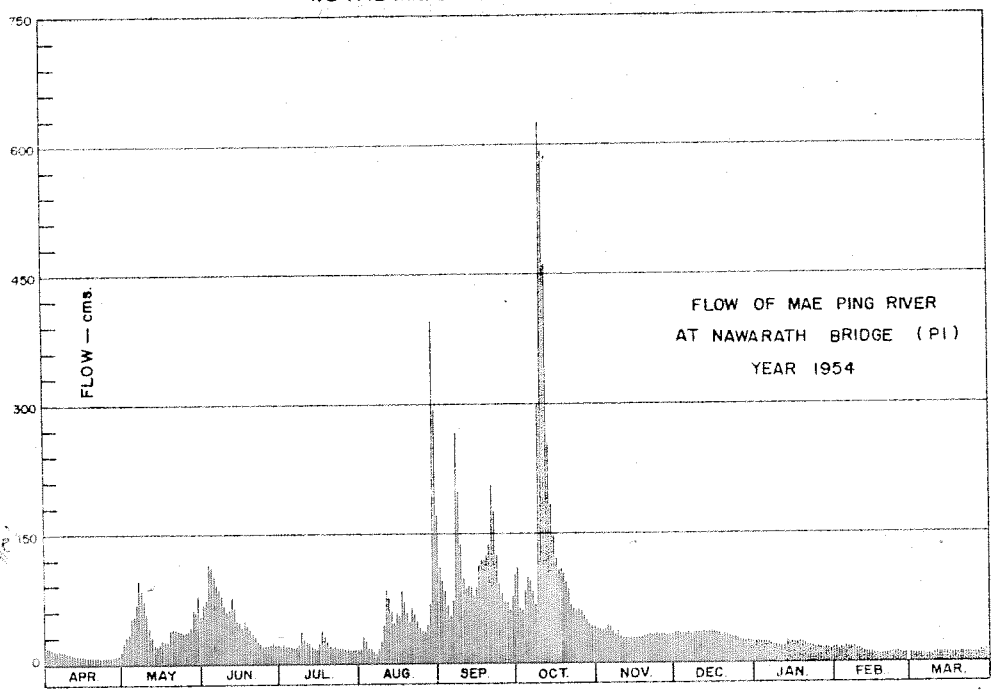
General Description: Records good. Flow regulated by Mae Faek weir for irrigation of about 11,200 hectares above gage site. Stage – discharge relation used is defined by discharge measurements made during 1954. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.96	302.04	302.55	301.86	301.88	302.90	302.82	302.25	302.22	302.07	301.86	301.76
2	.95	.11	.59	.87	302.08	.74	.40	.23	.22	.06	.85	.76
3	.93	.16	.91	.86	.09	.67	.38	.24	.22	.05	.86	.75
4	.92	.35	.88	.86	301.99	.50	.61	.23	.21	.05	.86	.76
5	.90	.38	.81	.86	.95	.42	.72	.29	.21	.04	.87	.76
6	301.90	302.52	302.71	301.85	301.91	302.62	302.68	302.27	302.22	302.03	301.87	301.75
7	.88	.76	.67	.86	.90	303.85	.55	.25	.21	.03	.86	.75
8	.88	.66	.59	.97	.99	.35	.44	.22	.21	.01	.87	.74
9	.87	.55	.48	302.13	302.11	302.88	303.93	.17	.23	.00	.85	.74
10	.86	.39	.44	.03	.33	.72	304.67	.19	.22	301.99	.83	.74
11	301.84	302.25	302.45	302.00	302.67	302.62	304.49	302.18	302.22	301.98	301.82	301.75
12	.83	.11	.58	301.97	.60	.65	303.89	.18	.20	.98	.81	.74
13	.82	.10	.47	.91	.47	.64	.44	.18	.19	.97	.80	.74
14	.81	301.99	.32	.89	.34	.54	.26	.18	.20	.97	.79	.74
15	.81	302.02	.30	.89	.46	.65	302.97	.18	.21	.96	.79	.73
16	301.80	302.06	302.25	302.01	302.42	302.85	302.84	302.18	302.20	301.96	301.77	301.74
17	.80	.25	.19	.14	.69	.89	.75	.18	.19	.96	.76	.73
18	.79	.25	.14	.07	.54	.90	.76	.19	.18	.95	.75	.73
19	.78	.21	.11	301.99	.40	.95	.73	.20	.17	.94	.76	.72
20	.77	.23	.03	.94	.34	303.07	.64	.21	.16	.93	.75	.72
21	301.78	302.22	302.00	301.91	302.44	303.50	302.58	302.23	302.15	301.91	301.76	301.72
22	.79	.20	301.94	.92	.36	.25	.50	.22	.14	.90	.77	.72
23	.80	.18	.89	.91	.28	302.88	.49	.22	.13	.89	.77	.72
24	.82	.17	.87	.90	.20	.69	.49	.23	.12	.88	.78	.72
25	.88	.18	.88	.89	.17	.64	.47	.22	.11	.87	.78	.72
26	301.78	302.21	301.87	301.88	302.16	302.57	302.45	302.23	302.09	301.86	301.76	301.73
27	.79	.27	.89	.88	.28	.53	.40	.24	.08	.86	.76	.73
28	.80	.46	.92	.87	.38	.49	.35	.23	.07	.86	.77	.75
29	.82	.43	.88	.87	304.14	.65	.30	.22	.07	.85		.76
30	.88	.61	.87	.87	303.64	.83	.28	.22	.07	.85		.77
31		.39		.87	.25		.27		.07	.86		.80
Mean	301.83	302.28	302.28	301.93	302.40	302.81	302.82	302.21	302.17	301.95	301.80	301.57
Max.	301.96	302.76	302.91	302.14	304.14	303.85	304.67	302.29	302.23	302.07	301.87	301.80
Min.	301.77	301.99	301.87	301.87	301.88	302.42	302.27	302.18	302.07	301.85	301.76	301.72

WATER YEAR 1954 : Max. 304.67 m. Min. 301.72 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	25	73	20	17	109	111	40	35	25	17	10
2	19	31	77	21	33	89	63	39	35	24	16	10
3	17	35	115	20	26	82	61	39	35	24	17	9.80
4	16	52	111	20	18	63	86	39	34	24	17	10
5	15	55	103	20	16	55	99	44	34	23	18	10
6	15	70	91	19	13	76	94	42	35	22	18	9.80
7	14	97	86	20	12	266	80	35	34	22	17	9.80
8	14	85	77	24	18	180	68	33	34	21	18	8.50
9	13	73	65	37	28	117	327	37	38	20	16	8.50
10	12	56	61	28	47	98	625	30	35	19	15	11
11	11	43	62	26	86	86	548	29	35	19	14	12
12	10	31	76	24	74	89	314	29	36	19	14	11
13	9.80	22	64	19	60	88	204	29	35	25	13	11
14	9.15	21	49	18	48	77	175	29	36	25	12	11
15	9.15	24	48	18	59	89	135	29	37	24	12	10
16	8.50	27	43	27	55	134	119	29	36	24	11	11
17	8.50	26	48	38	84	119	108	29	35	24	10	10
18	8.00	26	45	32	68	120	109	30	34	24	9.80	10
19	7.50	39	40	25	53	126	104	31	33	23	10	9.80
20	7.00	41	33	21	48	142	93	32	33	22	9.80	9.80
21	7.50	40	31	19	64	206	87	33	32	21	10	9.80
22	7.50	38	26	20	56	168	64	33	31	20	11	9.80
23	7.50	37	22	19	48	108	63	33	30	19	11	9.80
24	7.50	36	21	18	41	85	63	33	29	19	12	9.80
25	7.00	37	21	18	38	80	61	33	28	18	12	9.80
26	7.50	39	21	17	38	72	59	33	27	17	10	10
27	8.00	45	22	17	48	71	54	34	26	17	10	10
28	8.50	63	24	16	58	63	49	33	25	17	11	12
29	9.80	60	21	16	394	81	45	33	25	16		12
30	14	80	21	16	215	102	43	33	25	16		13
31		56		16	155		42		25	17		15
Total	327.40	1,410	1,595	669	2,200	3,221	4,153	1,005	1,000	650	371.60	324.00
Mean	10.9	45.6	53.1	21.6	71.0	107	133	33.5	32.3	21.0	13.3	10.5
Max.	19	97	115	38	394	266	625	44	37	25	18	15
Min.	7.00	21	21	16	12	55	42	29	25	16	9.80	8.50
Runoff — mcm.	28.287	121.824	137.808	57.803	190.080	278.294	358.819	86.832	86.400	56.160	32.106	27.994

WATER YEAR 1954 : Max. 625 Min. 7.00 Mean 46.4 Annual Runoff 1,462.406 mcm.

1477.406

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	18.00	304.69	643				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

H.61

WATER YEAR 1955
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: 6,356 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +301.19 m. (M.S.L.)

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

Location: On left bank at abutment of bridge.
Elevation: +306.876 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: 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: Overbank flow was observed at elev. +304.25 m. (M.S.L.) but not included for flow computation.

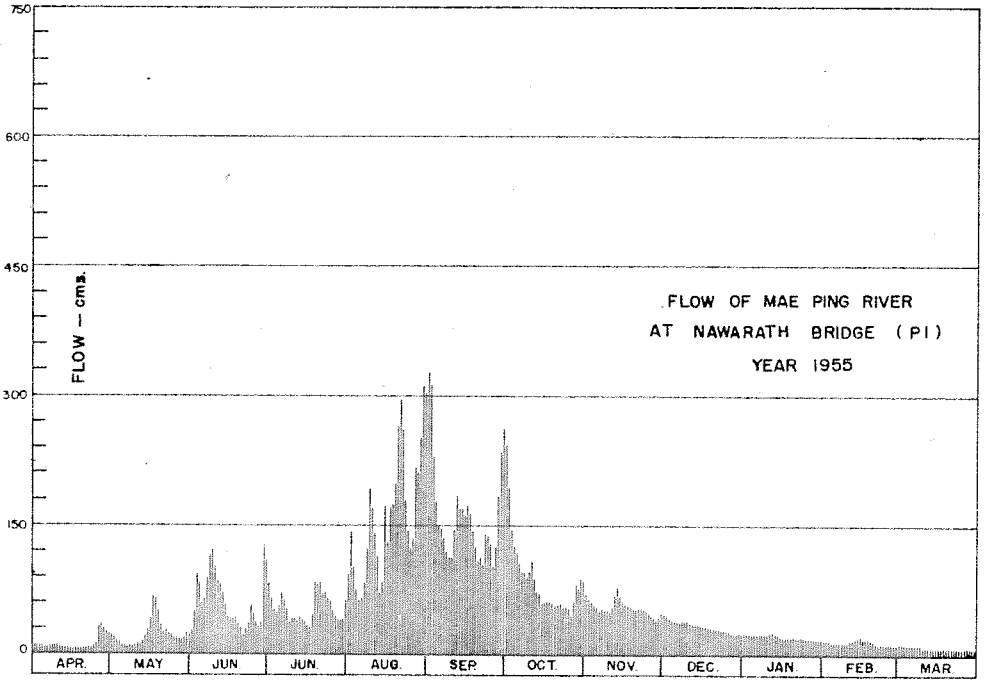
General Description: Records good. Flow regulated by Mae Faek weir for irrigation of about 11,200 hectares above gage site. Stage - discharge relation used is defined by discharge measurements made during 1955. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.72	301.95	302.05	302.55	302.86	304.37	303.86	302.54	302.23	301.97	301.85	301.77
2	.71	.90	.34	.44	303.27	.25	.33	.48	.23	.97	.84	.76
3	.70	.84	.75	.31	302.81	303.61	.09	.44	.23	.96	.83	.76
4	.69	.78	.65	.28	.61	.26	.01	.39	.22	.96	.82	.75
5	.67	.73	.43	.34	.56	.10	302.89	.37	.21	.96	.81	.75
6	301.67	301.73	302.47	302.52	302.60	303.12	302.79	302.35	302.21	302.96	301.81	301.74
7	.69	.73	.73	.44	.77	.02	.69	.34	.20	.95	.81	.74
8	.70	.75	.93	.27	303.13	303.94	.69	.32	.19	.95	.81	.74
9	.71	.74	303.01	.15	.65	.93	.64	.31	.18	.95	.81	.73
10	.70	.74	302.86	.20	.37	.93	.71	.31	.18	.97	.82	.73
11	301.69	301.75	302.68	302.19	303.19	303.33	302.82	302.39	302.17	302.00	301.85	301.72
12	.67	.76	.65	.18	.08	.48	.70	.58	.17	301.99	.88	.72
13	.66	.86	.57	.21	302.72	.37	.60	.63	.17	.97	.90	.73
14	.65	302.02	.59	.20	.94	.37	.58	.52	.16	.94	.91	.72
15	.65	.15	.65	.16	303.48	.31	.47	.46	.15	.92	.92	.72
16	301.65	302.29	302.23	302.10	303.15	303.40	302.44	302.43	302.14	301.91	301.89	301.72
17	.65	.57	.24	.09	.47	.33	.45	.41	.13	.91	.88	.73
18	.65	.56	.28	.27	.51	.18	.44	.40	.12	.91	.87	.72
19	.64	.54	.18	.65	.65	.02	.43	.38	.11	.91	.85	.72
20	.63	.18	.12	.63	304.13	302.94	.40	.38	.10	.91	.82	.71
21	301.66	302.09	301.99	302.65	304.35	302.96	302.41	302.38	302.10	301.90	301.79	301.71
22	.68	.06	302.12	.59	.11	.89	.39	.38	.09	.90	.77	.71
23	.70	.01	.23	.55	303.48	303.18	.34	.37	.08	.89	.76	.70
24	.73	301.96	.44	.45	.27	.16	.36	.35	.07	.89	.74	.70
25	.80	.93	.30	.40	.18	.08	.33	.32	.06	.88	.74	.70
26	302.10	301.91	302.20	302.29	303.26	302.87	302.22	302.21	302.05	301.88	301.74	301.70
27	.14	.88	.15	.20	.87	303.07	.46	.17	.03	.88	.74	.70
28	.07	.86	.22	.17	.83	.63	.64	.16	.01	.87	.74	.70
29	.01	.92	303.02	.17	304.15	.88	.60	.26	.00	.87	.74	.69
30	301.98	.99	302.84	.18	.28	304.03	.71	.26	301.99	.86		.69
31		.98		.49	.22		.68		.98	.86		.69
Mean	301.74	301.96	302.44	302.33	303.38	303.30	302.65	302.38	302.19	301.92	301.82	301.72
Max.	302.14	302.57	303.02	302.65	304.35	304.37	303.86	302.54	302.23	302.00	301.92	301.77
Min.	301.63	301.73	301.99	302.09	302.56	302.87	302.22	302.16	301.98	301.86	301.74	301.69

WATER YEAR 1955 : Max. 304.37 m. Min. 301.63 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	22	29	75	95	327	234	70	46	25	17	13
2	10	19	51	64	143	306	166	64	46	25	17	13
3	9.85	16	93	52	89	202	136	61	41	24	16	13
4	9.40	12	82	50	68	163	126	56	40	24	15	12
5	8.50	10	60	55	64	143	118	54	39	24	15	12
6	8.50	10	64	72	67	146	107	52	39	24	15	12
7	9.40	10	90	64	85	133	96	53	38	24	15	12
8	9.85	11	117	49	126	115	98	51	37	24	15	12
9	10	11	122	39	195	114	90	51	37	24	15	12
10	9.85	11	101	43	156	114	98	51	37	25	15	8.95
11	8.50	12	85	42	133	163	110	58	36	27	17	8.50
12	7.74	12	82	41	113	183	84	72	36	26	18	8.50
13	7.56	17	73	44	73	169	73	78	36	25	20	8.95
14	6.98	23	56	41	86	169	71	66	35	23	20	8.50
15	6.98	31	44	38	173	161	61	61	34	22	21	8.50
16	6.98	42	42	34	131	173	61	58	34	21	19	8.50
17	6.98	67	43	33	171	163	62	56	33	21	18	8.95
18	6.98	66	43	47	176	139	61	55	32	21	18	8.50
19	6.60	46	35	84	196	120	60	53	31	21	17	8.50
20	6.22	34	31	82	259	110	57	53	31	21	15	8.12
21	7.36	27	22	84	295	113	58	53	31	20	13	8.12
22	8.12	29	31	71	255	105	60	53	30	20	12	8.12
23	8.95	26	39	73	162	139	55	52	29	20	13	7.74
24	10	23	57	66	136	137	57	51	29	20	12	7.74
25	13	21	45	62	125	127	54	48	28	19	12	7.74
26	32	20	37	51	134	102	45	45	27	19	12	7.74
27	35	18	33	44	217	126	66	41	26	19	12	7.74
28	30	17	38	41	211	199	81	41	25	18	12	7.74
29	26	20	128	41	259	238	76	49	24	18	12	7.36
30	24	25	107	42	311	262	88	49	26	18		7.36
31		24		70	300		85		25	18		7.36
Total	362.10	732	1,880	1,604	5,902	4,861	2,692	1,655	1,036	680	448	290.23
Mean	12.1	23.6	62.7	54.6	161	162	86.8	55.2	33.5	21.9	15.4	9.36
Max.	35	67	128	84	311	327	234	70	46	27	21	13
Min.	6.22	10	22	33	64	102	45	41	24	18	12	7.36
Runoff – MCM.	31.285	63.245	162.432	146.362	432.173	419.990	232.589	142.992	89.483	58.752	38.707	25.076

WATER YEAR 1955 : Max. 327 Min. 6.22 Mean 58.3 Annual Runoff 1,843.286 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 1	18.00	304.43	335				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +301.19 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: 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 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: Overbank flow was observed at elev. +304.25 m. (M.S.L.) but not included for flow computation.

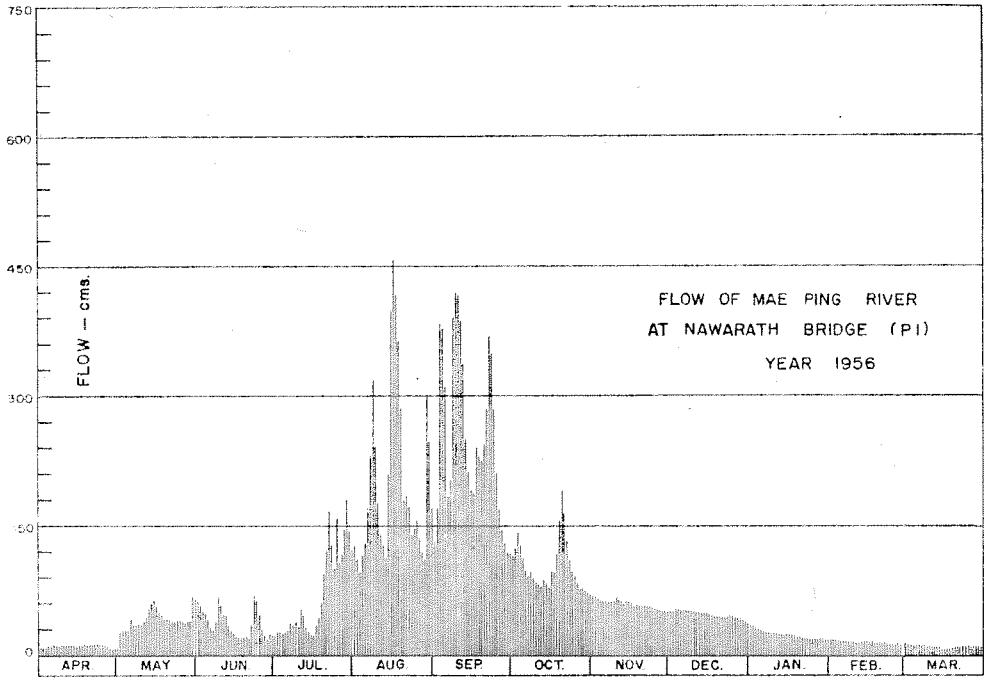
General Description: Records good. Flow regulated by Mae Faek weir for irrigation of about 11,200 hectares above gage site. Stage - discharge relation used is defined by discharge measurements made during 1956. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.69	301.74	302.38	301.91	302.98	302.96	302.94	302.42	302.24	302.02	301.79	301.68
2	.68	.96	.33	.96	.85	303.30	305.02	.41	.24	.00	.78	.67
3	.68	302.00	.27	.98	.75	304.43	.16	.38	.22	301.97	.78	.67
4	.69	.00	.24	.93	.98	.51	.02	.37	.22	.95	.77	.66
5	.68	.00	.10	.95	303.12	.12	302.89	.36	.22	.93	.77	.64
6	301.67	302.17	302.02	302.01	303.51	303.48	302.78	302.36	302.21	301.92	301.76	301.64
7	.67	.08	301.99	.12	.88	.62	.72	.36	.21	.91	.76	.63
8	.67	.08	302.12	.10	304.31	304.55	.78	.36	.20	.90	.75	.63
9	.68	.10	.47	.13	303.63	.66	.70	.36	.20	.89	.74	.62
10	.68	.09	.32	.07	.24	.59	.64	.40	.19	.88	.73	.62
11	301.67	302.14	302.23	302.31	302.97	304.38	302.61	302.36	302.18	301.88	301.72	301.62
12	.67	.20	.10	.18	.94	303.95	.57	.35	.17	.87	.73	.62
13	.67	.33	.02	.03	.83	.61	.63	.32	.17	.87	.75	.62
14	.67	.40	301.97	301.96	303.64	.48	.56	.36	.17	.87	.76	.61
15	.67	.42	.92	.92	304.51	.36	.55	.34	.16	.87	.76	.61
16	301.67	302.32	301.88	301.92	304.67	303.34	302.69	302.33	302.15	301.86	301.75	301.60
17	.68	.25	.86	302.10	.54	.68	.69	.32	.14	.85	.74	.59
18	.69	.18	.86	.21	.19	.64	.87	.34	.13	.84	.71	.59
19	.71	.17	.88	.39	303.74	.64	303.16	.31	.13	.83	.71	.60
20	.71	.16	.89	.82	.35	.80	.43	.31	.12	.82	.70	.61
21	301.72	302.15	301.84	302.95	303.38	304.03	303.18	302.31	302.11	301.81	301.70	301.61
22	.75	.14	302.07	303.33	.27	.44	302.93	.31	.11	.81	.70	.61
23	.75	.13	.47	302.82	.04	.35	.78	.30	.12	.80	.69	.61
24	.74	.15	.38	.76	.12	303.90	.66	.29	.12	.80	.62	.61
25	.73	.14	.22	303.24	.17	.53	.63	.28	.11	.80	.69	.61
26	301.73	302.13	301.95	302.82	302.99	303.32	302.55	302.26	302.10	301.80	301.68	301.60
27	.72	.12	.90	.90	.84	.14	.49	.26	.10	.79	.68	.60
28	.72	.14	.84	303.17	.81	.05	.50	.25	.09	.79	.68	.60
29	.71	.60	.92	.40	304.07	302.97	.47	.24	.07	.79		.61
30	.72	.46	.90	.03	303.54	.96	.45	.24	.05	.79		.60
31		.42		302.95	.15		.44		.04	.79		.60
Mean	301.70	302.17	302.08	302.43	303.42	303.76	302.76	302.33	302.15	302.86	301.73	301.62
Max.	301.75	302.60	302.47	303.40	304.67	304.66	303.43	302.42	302.24	302.02	301.79	301.68
Min.	301.67	301.74	301.84	301.91	302.75	302.96	302.44	302.24	302.04	301.79	301.68	301.59

WATER YEAR 1956 : Max. 304.67 m. Min. 301.59 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.65	9.80	60	23	127	129	115	69	51	35	19	13
2	8.00	27	55	27	108	173	124	68	51	34	18	12
3	8.90	29	50	28	95	383	141	65	53	31	18	12
4	9.80	29	47	25	119	377	124	64	53	30	17	12
5	10	29	36	26	132	290	110	63	53	28	17	11
6	11	41	30	30	179	184	97	63	52	27	17	11
7	11	35	28	37	230	205	91	63	52	27	17	11
8	11	35	37	36	318	388	97	63	51	26	16	11
9	11	36	68	38	207	420	88	63	51	25	16	10
10	11	35	54	34	158	416	84	67	51	25	15	10
11	11	39	46	53	130	377	82	63	50	25	15	10
12	11	44	36	42	127	288	80	62	49	24	15	10
13	11	55	30	31	114	228	88	60	49	24	16	10
14	11	62	27	27	223	208	83	65	49	24	17	9.80
15	11	63	24	24	405	190	82	62	48	24	17	9.80
16	11	54	21	24	457	187	97	61	47	23	16	9.35
17	11	48	20	35	414	240	97	58	46	23	16	8.90
18	12	42	20	41	325	228	116	60	45	22	14	8.90
19	12	41	21	56	240	225	153	57	45	21	14	9.35
20	12	41	22	97	180	249	190	57	45	21	14	9.80
21	13	40	19	116	184	286	156	57	44	20	14	9.80
22	14	39	34	167	169	369	124	57	44	20	14	9.80
23	14	38	68	108	139	343	107	56	45	19	13	9.80
24	13	40	60	102	149	250	94	55	45	19	13	9.80
25	12	39	45	159	156	192	91	54	44	19	13	9.80
26	11	38	26	108	133	162	82	52	43	19	13	9.35
27	9.80	37	23	118	115	139	76	52	43	19	13	9.35
28	8.90	39	19	150	112	128	77	51	42	19	13	9.35
29	8.45	81	24	181	300	119	74	51	41	19		9.80
30	8.90	67	23	133	208	118	72	51	38	19		9.35
31		63		123	153		71		37	19		9.35
Total	325.40	1,315.80	1,073	2,199	6,106	7,491	3,165	1,787	1,457	730	430	314.45
Mean	10.8	42.4	35.8	70.9	197	250	102	59.6	47.0	23.5	15.3	10.1
Max.	14	81	68	181	457	420	190	69	53	35	19	13
Min.	7.65	9.80	19	23	95	118	71	51	37	19	13	8.90
Runoff - mcm.	28.114	113.685	92.707	189.994	527.558	647.222	273.456	154.397	125.885	63.072	37.152	27.168

WATER YEAR 1956 : Max. 457 Min. 7.65 Mean 72.3 Annual Runoff 2,280.411 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 16	06.00	304.68	460				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

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

Location: Lat 16°- 51' - 14" N, Long 99°- 07' - 50" E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,862 sq.km.

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 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: 1952 to date.

Rating Operation:

Period of Rating: 1952 - 60, 1964 - 68
Rated by Float: -
Rated by Current Meter: 1952 - 60, 1964 - 68

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

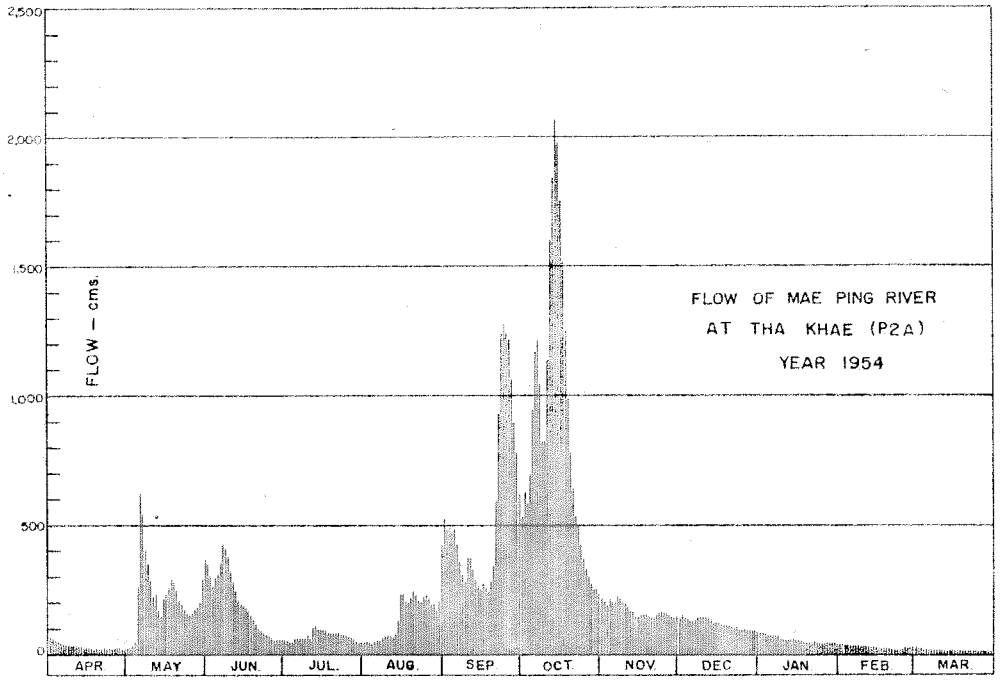
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. Upstream 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, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	105.31	105.12	106.06	105.47	105.43	106.50	106.42	105.87	105.63	105.41	105.21	105.12
2	.29	.13	105.98	.46	.43	.44	.55	.85	.62	.39	.20	.11
3	.27	.18	.93	.44	.41	.41	.49	.83	.61	.39	.19	.10
4	.24	.30	.99	.45	.41	.35	.61	.87	.61	.38	.18	.08
5	.22	.84	106.02	.47	.43	.34	.95	.85	.60	.37	.17	.07
6	105.20	106.53	106.13	105.48	105.42	106.18	107.12	105.86	105.60	105.35	105.16	105.06
7	.19	.32	.22	.47	.42	.09	.17	.90	.60	.34	.15	.05
8	.19	.17	.19	.47	.45	105.99	.02	.87	.61	.33	.14	.05
9	.17	.05	.13	.48	.47	.96	106.82	.85	.61	.32	.13	.02
10	.17	105.91	.05	.49	.49	106.11	.85	.81	.61	.31	.11	.01
11	105.16	105.83	105.99	105.49	105.47	106.12	107.15	105.79	105.60	105.30	105.10	105.00
12	.15	.81	.92	.57	.47	.04	.53	.76	.59	.30	.09	104.99
13	.14	.76	.87	.61	.49	105.97	.73	.75	.57	.30	.09	.99
14	.13	.70	.83	.60	.62	.93	.87	.73	.56	.32	.08	.98
15	.13	.84	.81	.57	.83	.93	.78	.72	.55	.31	.07	.97
16	105.13	105.87	105.81	105.55	105.86	105.97	107.60	105.70	105.55	105.30	105.07	104.99
17	.12	.94	.77	.55	.80	.93	.39	.68	.54	.29	.06	105.00
18	.10	106.01	.72	.53	.79	.90	.14	.67	.53	.27	.07	.00
19	.10	105.99	.67	.53	.84	.97	106.88	.67	.53	.26	.07	104.99
20	.09	.92	.63	.54	.88	106.06	.63	.66	.52	.25	.06	.98
21	105.99	105.87	105.60	105.53	105.85	106.54	106.53	105.66	105.51	105.23	105.06	104.99
22	.09	.82	.58	.53	.82	.93	.37	.66	.50	.23	.06	.98
23	.10	.77	.56	.52	.80	107.35	.32	.68	.50	.22	.06	.97
24	.12	.73	.54	.51	.85	.40	.21	.70	.48	.22	.06	.97
25	.11	.71	.52	.50	.88	.36	.18	.69	.48	.22	.08	.96
26	105.12	105.72	105.51	105.49	105.84	107.35	106.12	105.68	105.47	105.22	105.10	104.95
27	.15	.74	.49	.48	.80	.09	.09	.66	.46	.22	.10	.95
28	.13	.75	.49	.46	.79	106.84	.03	.65	.45	.22	.11	.95
29	.11	.81	.49	.45	.77	.63	105.99	.64	.44	.22		.95
30	.10	.97	.48	.44	.83	.48	.94	.63	.43	.21		.94
31		106.13		.43	106.27		.90		.42	.21		.94
Mean	105.15	105.81	105.80	105.50	105.50	106.40	106.75	105.74	105.54	105.29	105.11	105.00
Max.	105.31	106.53	106.22	105.61	106.27	107.40	107.87	105.90	105.63	105.41	105.21	105.12
Min.	105.09	105.12	105.48	105.44	105.41	105.90	105.90	105.63	105.42	105.21	105.06	104.94

WATER YEAR 1954 : Max. 107.87 m. Min. 104.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	62	25	347	56	50	523	537	213	141	88	44	28
2	59	28	298	52	52	484	627	203	153	83	40	25
3	54	35	267	50	46	497	585	194	141	83	38	22
4	48	56	292	50	44	478	709	213	141	76	37	19
5	44	227	303	60	56	484	990	203	131	73	35	21
6	40	627	358	62	52	398	1,158	208	134	71	35	19
7	38	491	428	62	52	352	1,212	227	138	71	35	19
8	38	404	410	64	69	303	1,009	213	145	71	34	16
9	35	341	375	66	71	287	823	205	145	58	32	16
10	35	262	325	76	76	375	849	198	145	58	31	15
11	33	222	277	66	73	375	1,137	181	141	56	31	14
12	32	232	237	101	69	319	1,605	169	134	56	31	13
13	30	173	208	113	83	282	1,846	169	127	56	31	14
14	28	149	194	110	131	262	2,066	149	124	60	29	14
15	28	213	185	101	232	257	1,954	149	124	54	28	12
16	28	232	181	96	232	272	1,684	157	124	54	26	13
17	26	257	169	93	203	262	1,432	153	117	54	25	14
18	23	292	149	88	203	247	1,148	153	113	50	25	13
19	23	277	131	85	222	287	909	149	113	48	22	12
20	22	242	113	88	247	341	694	149	110	48	23	12
21	22	199	99	88	232	592	620	149	104	48	20	12
22	22	194	91	85	208	840	523	153	101	50	19	12
23	21	173	80	80	203	1,234	497	161	101	46	20	12
24	26	157	76	76	222	1,278	392	169	96	44	19	12
25	23	153	71	78	232	1,234	369	165	99	48	22	11
26	25	161	64	71	213	1,212	325	161	99	42	26	11
27	29	177	56	69	194	1,028	303	153	99	48	25	11
28	25	181	56	60	199	874	272	149	93	46	26	11
29	23	203	56	54	173	702	252	145	93	44		10
30	23	282	56	48	203	578	257	149	91	44		10
31		369		50	428		232		88	44		10
Total	964	7,034	5,952	2,298	4,770	16,657	27,016	5,198	3,705	1,772	809	453
Mean	32.1	227	198	74.1	153	555	871	173	119	57.2	28.9	14.6
Max.	62	627	428	113	428	1,278	2,066	227	153	88	44	28
Min.	21	25	56	48	44	247	232	145	88	42	19	10
Runoff — MCM.	83.290	607.738	514.253	198.547	412.128	1,439.165	2,334.182	449.107	320.112	153.101	69.898	39.139

WATER YEAR 1954 : Max. 2,066 Min. 10 Mean 210 Annual Runoff 6,620.659 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 14	24.00	107.91	2,130				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

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

Location: Lat 16°- 51' - 14" N, Long 99°- 07' - 50" E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,862 sq.km.

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: 1952 to date.

Rating Operation:

Period of Rating: 1952 - 60, 1964 - 68
Rated by Float: -
Rated by Current Meter: 1952 - 60, 1964 - 68

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

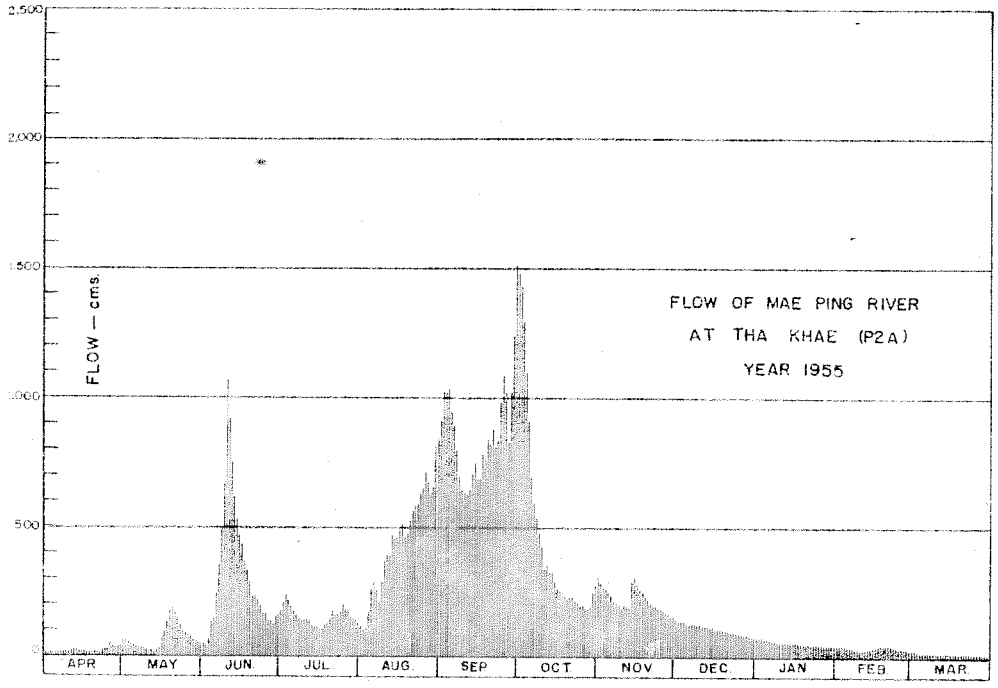
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream 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, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	104.94	105.27	105.27	105.73	105.63	106.96	107.58	106.03	105.66	105.36	105.14	105.01
2	.94	.26	.25	.80	.62	107.07	.53	.01	.65	.35	.14	.00
3	.94	.25	.34	.86	.63	.08	.36	.00	.64	.34	.13	104.99
4	.94	.23	.56	.80	.81	.04	.12	105.97	.62	.33	.12	.98
5	.94	.21	.62	.75	.98	106.96	106.91	.93	.61	.32	.11	.98
6	104.97	105.19	105.93	105.72	106.01	106.88	106.71	105.90	105.60	105.31	105.10	104.97
7	.99	.18	106.14	.69	105.92	.80	.54	.87	.59	.30	.09	.96
8	.99	.16	.34	.67	.86	.69	.43	.83	.59	.29	.08	.96
9	.99	.13	.63	.67	106.02	.60	.33	.81	.58	.28	.07	.95
10	105.00	.11	107.03	.67	.18	.58	.25	.78	.57	.27	.06	.95
11	105.07	105.09	106.88	105.66	106.22	106.58	106.20	105.80	105.56	105.27	105.04	104.94
12	.08	.06	.66	.63	.25	.61	.18	.78	.55	.26	.06	.94
13	.05	.05	.48	.60	.34	.66	.16	.80	.54	.26	.08	.94
14	.02	.04	.37	.58	.31	.71	.15	106.00	.54	.26	.08	.94
15	.00	.13	.29	.58	.31	.69	.09	.05	.53	.26	.12	.94
16	104.99	105.37	106.23	105.57	105.32	106.73	106.03	106.01	105.52	105.25	105.14	104.94
17	.97	.44	.19	.58	.39	.79	105.98	105.96	.51	.24	.14	.93
18	.96	.50	.14	.60	.33	.78	.93	.92	.50	.23	.15	.93
19	.94	.66	.03	.62	.34	.88	.90	.90	.49	.22	.15	.92
20	.94	.71	105.95	.63	.41	.81	.88	.88	.48	.22	.16	.92
21	104.92	105.68	105.90	105.68	106.47	106.87	105.89	105.85	105.47	105.21	105.16	104.92
22	.92	.63	.88	.68	.51	.81	.90	.83	.46	.21	.13	.92
23	105.03	.56	.81	.70	.53	.82	.86	.81	.46	.20	.10	.92
24	.02	.49	.75	.72	.58	107.00	.82	.79	.45	.20	.09	.92
25	.10	.46	.70	.76	.59	.11	.80	.76	.44	.19	.07	.91
26	105.22	105.43	105.67	105.74	106.69	107.01	105.78	105.75	105.43	105.19	105.05	104.91
27	.17	.39	.66	.74	.68	106.84	.76	.73	.41	.18	.04	.91
28	.14	.36	.67	.71	.64	107.06	.75	.71	.40	.17	.03	.90
29	.13	.34	.69	.69	.68	.31	.81	.69	.39	.17	.02	.90
30	.22	.31	.71	.67	.81	.57	.89	.68	.38	.16		.89
31		.29		.64	.84		.97		.37	.15		.89
Mean	105.01	105.32	105.99	105.68	106.29	106.88	106.24	105.86	105.51	105.25	105.10	104.94
Max.	105.22	105.71	107.03	105.86	106.84	107.57	107.58	106.03	105.66	105.36	105.14	105.01
Min.	104.92	105.04	105.25	105.57	105.62	106.58	105.75	105.68	105.37	105.15	105.02	104.89

WATER YEAR 1955 : Max. 107.58 m. Min. 104.89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	67	49	184	112	914	1,463	307	142	73	42	23
2	10	54	49	208	101	1,023	1,430	288	139	71	41	21
3	10	52	69	238	115	1,023	1,271	269	139	71	41	20
4	10	49	132	211	211	1,032	1,032	260	132	69	39	18
5	12	42	148	180	265	914	814	245	129	67	39	18
6	15	39	269	173	292	880	631	230	129	65	38	16
7	17	38	367	151	243	758	576	214	126	62	35	16
8	17	34	480	145	211	682	518	207	126	60	33	15
9	18	30	668	139	297	638	468	203	123	60	30	15
10	18	29	1,060	142	377	631	415	191	123	59	28	15
11	25	26	897	145	395	624	382	199	120	58	28	14
12	28	25	720	139	399	653	357	191	120	56	30	14
13	23	22	583	118	468	712	326	199	115	56	33	15
14	19	21	505	112	456	750	326	285	112	54	34	14
15	18	32	450	115	462	682	283	307	112	54	36	15
16	16	75	415	109	492	690	260	269	109	54	41	14
17	13	96	362	109	511	781	256	256	106	52	41	14
18	13	112	336	123	482	765	256	247	106	50	42	13
19	12	173	278	132	474	847	234	222	101	49	41	13
20	12	188	234	148	511	822	222	218	101	49	42	13
21	13	165	238	176	563	880	230	203	98	49	44	13
22	11	148	215	158	583	806	234	195	96	47	41	13
23	21	120	195	169	590	847	214	195	96	46	37	12
24	21	96	165	176	629	986	207	188	93	46	34	11
25	30	90	162	199	653	1,088	191	180	88	46	32	11
26	49	83	139	180	712	995	191	180	88	44	30	11
27	34	73	139	180	675	830	184	173	83	44	30	11
28	38	67	126	155	639	1,023	188	169	83	44	28	10
29	36	60	158	148	660	1,241	195	155	78	44	26	10
30	50	56	169	142	814	1,507	243	142	73	42		9.00
31		52		123	839		278		71	42		9.00
Total	624	2,212	9,777	4,827	14,219	26,024	13,875	6,583	3,357	1,682	1,036	434
Mean	20.8	71.3	326	156	459	867	447	219	108	54.2	35.7	14.0
Max.	50	188	1,060	238	839	1,507	1,463	307	142	73	42	23
Min.	10	21	49	109	101	624	184	142	71	42	26	9.00
Runoff - mcm.	53.914	191.117	844.733	417.053	1,228.522	2,248.474	1,198.800	568.771	290.045	145.325	89.510	37.498

WATER YEAR 1955 : Max. 1,507 Min. 9.00 Mean 231 Annual Runoff 7,313.760 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.30	15.00	107.60	1,540				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

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

Location: Lat 16° – 51' – 14" N, Long 99° – 07' – 50" E, on right bank 200 meters downstream from Kittikhachon I Bridge at Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,662 sq.km.

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: 1952 to date.

Rating Operation:

Period of Rating: 1952 – 60, 1964 – 68
Rated by Float: –
Rated by Current Meter: 1952 – 60, 1964 – 68

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

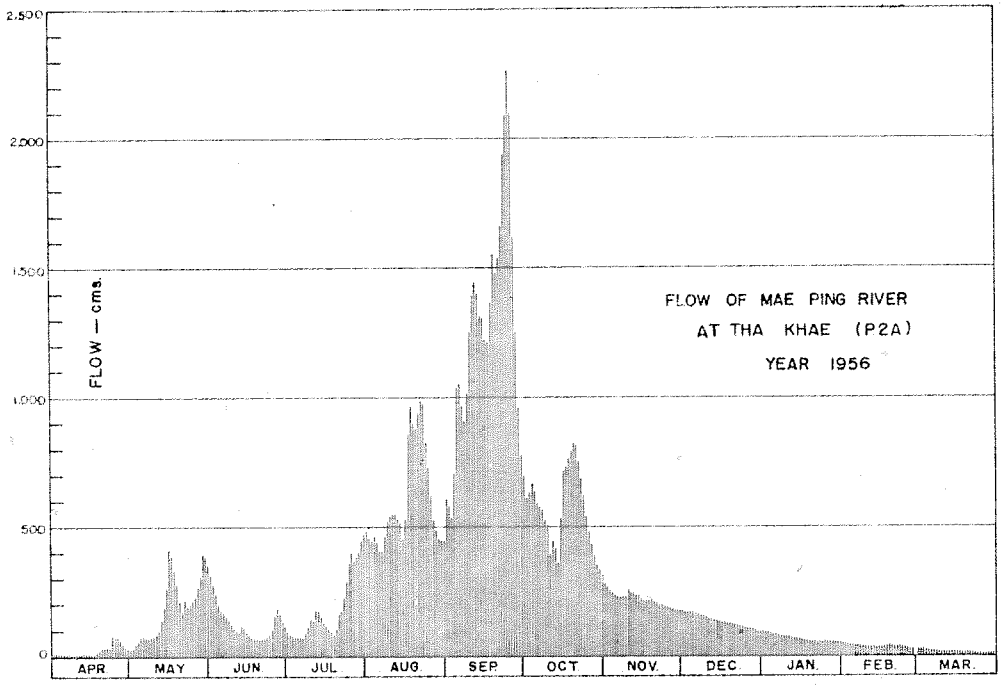
Overbank Flow Conditions: No overbank flow.

General Description: Records fair, stage – discharge relation used is defined by discharge measurements made during 1956. Upstream 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, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	104.89	105.09	106.03	105.44	106.39	106.59	106.65	105.96	105.70	105.44	105.24	105.09
2	.89	.11	105.95	.40	.33	.54	.59	.94	.70	.43	.24	.08
3	.89	.23	.85	.37	.31	.47	.62	.91	.69	.42	.23	.06
4	.88	.26	.76	.35	.35	.69	.67	.88	.69	.41	.22	.05
5	.88	.36	.70	.37	.31	107.16	.61	.86	.68	.40	.20	.04
6	104.87	105.36	105.67	105.34	106.24	107.18	106.55	105.86	105.67	105.39	105.19	105.03
7	.90	.33	.63	.35	.24	.08	.45	.85	.66	.38	.18	.02
8	.88	.34	.58	.45	.34	.01	.35	.85	.65	.37	.17	.01
9	.88	.35	.53	.51	.45	.13	.28	.85	.64	.37	.17	.00
10	.88	.35	.49	.62	.48	.38	.24	.91	.63	.36	.16	104.98
11	104.88	105.41	105.45	105.61	106.49	107.53	106.21	105.89	105.62	105.35	105.16	104.97
12	.88	.48	.44	.72	.50	.58	.31	.88	.61	.34	.17	.96
13	.88	.55	.52	.70	.47	.51	.25	.86	.60	.33	.16	.95
14	.89	.75	.49	.62	.44	.44	.16	.87	.60	.32	.16	.94
15	.89	.95	.43	.55	.33	.44	.44	.83	.59	.31	.16	.94
16	104.90	106.25	105.38	105.52	106.43	107.36	106.73	105.81	105.58	105.30	105.16	104.95
17	.91	.19	.34	.47	.93	.35	.76	.81	.58	.29	.17	.96
18	.97	.07	.32	.45	107.08	.51	.81	.82	.57	.29	.18	.95
19	105.06	105.93	.32	.41	.01	.69	.90	.82	.56	.26	.18	.94
20	.14	.80	.31	.48	106.97	.61	.89	.80	.55	.27	.18	.93
21	105.12	105.71	105.32	105.67	107.05	107.68	106.81	105.79	105.54	105.27	105.17	104.92
22	.15	.82	.34	.71	.11	.75	.68	.78	.53	.26	.16	.91
23	.13	.75	.35	.84	.09	.98	.56	.76	.52	.26	.15	.91
24	.37	.78	.40	.98	106.93	108.14	.45	.75	.51	.26	.13	.90
25	.38	.82	.48	106.12	.74	.30	.35	.74	.50	.27	.12	.89
26	105.37	105.86	105.65	106.22	106.56	108.16	106.25	105.73	105.49	105.26	105.11	104.88
27	.28	.94	.73	.16	.46	107.67	.17	.72	.48	.26	.10	.88
28	.19	106.05	.69	.19	.39	.32	.12	.72	.47	.26	.09	.87
29	.15	.21	.60	.24	.32	.05	.08	.71	.46	.26		.89
30	.10	.19	.51	.32	.31	106.81	.05	.71	.45	.25		.96
31		.10		.37	.41		.01		.45	.25		.93
Mean	105.02	105.69	105.54	105.69	106.56	107.37	106.45	105.82	105.58	105.32	105.17	104.96
Max.	105.38	106.25	106.03	106.37	107.11	108.30	106.90	105.96	105.70	105.44	105.24	105.09
Min.	104.87	105.09	105.31	105.34	106.24	106.47	106.01	105.71	105.45	105.25	105.09	104.87

WATER YEAR 1956 : Max. 108.30 m. Min. 104.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.00	27	306	93	486	608	648	275	172	93	50	27
2	9.00	30	270	83	454	577	608	266	172	91	50	26
3	9.00	49	228	77	443	534	628	252	168	88	49	24
4	8.40	54	193	73	464	674	661	240	168	86	47	23
5	8.40	75	172	77	443	1,054	621	232	165	83	43	21
6	7.80	75	161	70	407	1,051	583	232	161	81	41	20
7	9.70	68	148	73	407	964	522	228	158	79	40	19
8	8.40	70	132	96	459	908	464	228	155	77	38	18
9	8.40	73	118	112	522	1,007	427	228	151	77	38	17
10	8.40	73	106	145	540	1,240	407	253	148	75	37	15
11	8.40	86	96	142	546	1,390	392	244	145	73	37	15
12	8.40	103	93	179	552	1,440	443	240	142	70	38	14
13	8.40	123	115	172	534	1,370	412	232	138	68	37	13
14	9.00	190	106	145	516	1,300	368	236	138	66	37	12
15	9.00	270	91	123	454	1,300	516	220	135	64	37	12
16	9.70	412	79	115	510	1,220	702	212	132	62	37	13
17	10	382	70	101	848	1,210	723	212	132	60	38	14
18	15	325	66	91	964	1,370	759	216	129	60	40	15
19	24	262	66	86	908	1,550	825	216	126	54	40	12
20	34	208	64	103	877	1,470	818	208	123	56	40	12
21	31	175	66	161	940	1,540	759	204	120	56	38	11
22	35	216	70	175	990	1,612	667	200	118	54	37	10
23	33	190	73	224	972	1,868	589	193	115	54	35	10
24	27	200	83	284	848	2,062	522	190	112	54	33	9.70
25	29	216	103	348	709	2,268	464	186	109	56	31	9.00
26	27	232	155	397	589	2,087	412	182	106	54	30	8.40
27	58	266	182	368	528	1,550	372	179	103	54	28	8.40
28	41	316	168	382	486	1,180	348	179	101	54	27	7.80
29	35	392	138	407	448	924	329	175	98	54		9.00
30	28	382	112	448	443	759	316	175	96	52		14
31		339		475	498		297		96	52		12
Total	716.40	5,879	3,830	5,825	18,758	38,047	16,602	6,533	4,132	2,057	1,073	449.30
Mean	23.9	190	128	188	606	1,268	535	218	133	66.3	38.3	14.5
Max.	79	412	306	475	990	2,268	825	275	172	93	50	27
Min.	7.80	27	64	73	407	534	297	175	96	52	27	7.80
Runoff - mcm.	61.897	507.946	330.912	503.280	1,623.024	3,287.261	1,434.413	564.451	357.005	177.725	92.707	38.819

WATER YEAR 1956 : Max. 2,268 Min. 7.80 Mean 285 Annual Runoff 8,979.440 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.25	18.00	108.33	2,309				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Taeng River at Nong Pa Oi, Chiang Mai (P.4)

Location: Lat 19°- 09' - 49" N, Long 98°- 55' - 03" E, on left bank 970 meters downstream from Huai San, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,834 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +342.937 m. (M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: Hourly.

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

Period of Available Gage Records: 1953 - 57

Rating Operation:

Period of Rating: 1953 - 54
Rated by Float: -
Rated by Current Meter: 1953 - 54

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

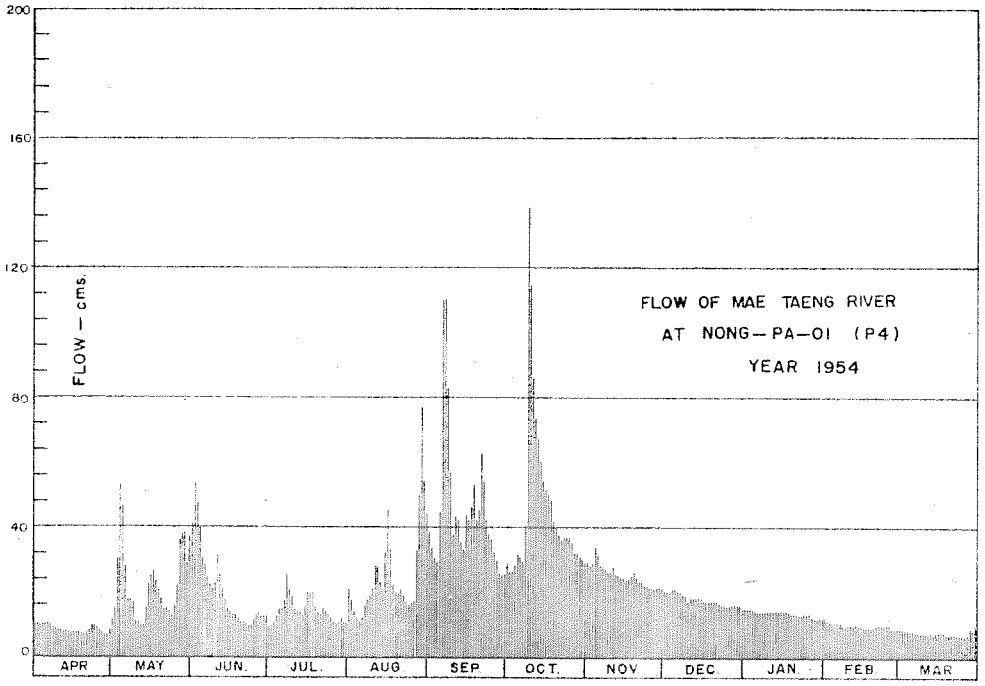
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relationship used is defined by discharge measurements made during 1953. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	343.77	343.81	344.33	343.77	344.01	344.31	344.16	344.15	343.99	343.89	343.81	343.74
2	.77	.89	.55	.77	343.95	.22	.10	.14	.98	.88	.80	.73
3	.76	344.16	.45	.80	.86	.18	.10	.16	.98	.88	.80	.73
4	.76	.53	.33	.82	.81	.16	.13	.24	344.01	.88	.80	.73
5	.77	.42	.18	.89	.80	.21	.20	.19	.01	.87	.79	.72
6	343.77	344.05	344.14	343.88	343.81	345.26	344.19	344.14	343.99	343.87	343.79	343.72
7	.76	343.94	.09	.88	.90	.26	.16	.13	.98	.87	.78	.72
8	.75	.94	.03	344.11	.96	344.75	.22	.12	.97	.87	.78	.71
9	.74	.92	.00	.00	.98	.51	345.58	.10	.96	.87	.77	.71
10	.73	.80	.05	343.97	344.01	.29	.28	.11	.93	.87	.77	.70
11	343.72	343.80	344.19	343.89	344.13	344.38	344.89	344.13	343.95	343.86	343.77	343.70
12	.72	.77	.07	.85	.13	.37	.81	.09	.95	.86	.76	.70
13	.72	.77	.00	.85	.03	.27	.67	.08	.95	.86	.76	.70
14	.71	.86	343.95	.84	.00	.20	.59	.07	.95	.85	.76	.69
15	.71	344.03	.89	.90	.31	.40	.53	.07	.94	.85	.76	.70
16	343.70	344.08	343.86	343.99	344.42	344.37	344.50	344.06	343.93	343.85	343.75	343.71
17	.70	.12	.84	.99	.20	.40	.49	.06	.92	.85	.75	.70
18	.70	.03	.83	.98	.05	.54	.46	.07	.92	.85	.75	.70
19	.69	.00	.81	.91	343.99	.37	.37	.10	.92	.84	.75	.69
20	.69	343.92	.80	.85	.99	.42	.32	.07	.92	.84	.75	.69
21	343.71	343.89	343.79	343.83	344.00	344.68	344.30	344.05	343.92	343.84	343.76	343.69
22	.73	.88	.77	.89	343.96	.47	.28	.04	.91	.84	.78	.68
23	.76	.86	.76	.86	.92	.33	.29	.03	.91	.83	.78	.68
24	.76	.84	.76	.84	.91	.31	.29	.02	.91	.83	.77	.68
25	.74	.89	.79	.81	.92	.27	.28	.01	.91	.83	.76	.68
26	343.72	344.02	343.84	343.79	343.93	344.20	344.24	344.01	343.90	343.83	343.75	343.68
27	.70	.28	.85	.79	344.17	.16	.21	.01	.90	.82	.74	.69
28	.69	.30	.79	.78	.49	.11	.20	.00	.90	.82	.74	.74
29	.69	.31	.79	.81	.89	.09	.18	.00	.90	.81		.72
30	.73	.15	.80	.80	.57	.09	.17	.00	.90	.81		.78
31		.29		.79	.39		.16		.89	.81		.75
Mean	343.73	344.02	343.98	343.87	344.06	344.39	344.40	344.08	343.94	343.85	343.77	343.71
Max.	343.77	344.53	344.55	344.11	344.89	345.26	345.58	344.24	344.01	343.89	343.81	343.78
Min.	343.69	343.77	343.76	343.77	343.80	344.09	344.10	344.00	343.89	343.86	343.74	343.68

WATER YEAR 1954 : Max. 345.58 m. Min. 343.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	12	40	10	21	38	29	29	20	15	12	8.80
2	10	15	54	10	18	33	26	28	20	15	11	8.40
3	10	29	47	11	14	31	26	29	20	15	11	8.40
4	9.70	53	40	12	12	29	28	34	21	15	11	8.40
5	10	45	31	15	11	32	32	31	21	14	11	8.00
6	10	23	28	15	12	110	31	28	20	14	11	8.00
7	9.70	18	25	15	16	110	29	28	20	14	10	8.00
8	9.20	18	22	26	18	68	33	27	19	14	10	7.70
9	8.80	17	21	21	19	51	138	26	19	14	10	7.70
10	8.40	11	23	19	21	37	111	26	17	14	10	7.30
11	8.00	11	31	15	28	43	79	28	18	14	10	7.30
12	8.00	10	24	14	28	42	73	25	18	14	9.70	7.30
13	8.00	10	21	14	22	36	63	25	18	14	9.70	7.30
14	7.70	14	18	13	21	32	57	24	18	14	9.70	7.00
15	7.70	22	15	16	32	44	53	24	18	14	9.70	7.30
16	7.30	25	14	20	45	42	51	24	17	14	9.20	7.70
17	7.30	27	13	20	32	44	50	24	17	14	9.20	7.30
18	7.30	22	13	20	25	53	48	24	17	14	9.20	7.30
19	7.00	21	12	16	20	42	42	26	17	13	9.20	7.00
20	7.00	17	11	14	20	45	39	24	17	13	9.20	7.00
21	7.70	15	11	13	21	63	38	23	17	13	9.70	7.00
22	8.40	15	10	15	19	49	36	23	16	13	10	6.60
23	9.70	14	9.70	14	17	40	37	22	16	13	10	6.60
24	9.70	13	9.70	13	16	38	37	22	16	13	10	6.60
25	8.80	15	11	12	17	36	36	21	16	13	9.70	6.60
26	8.00	22	13	11	17	32	34	21	16	13	9.20	6.60
27	7.30	36	14	11	30	29	32	21	16	12	8.80	7.00
28	7.00	38	11	11	50	26	32	21	16	12	8.80	8.80
29	7.00	38	11	12	77	25	31	21	16	12		8.00
30	8.40	29	11	11	56	25	30	21	16	12		10
31		30		11	43		29		15	12		9.20
Total	253.10	692	614.40	450	796	1,325	1,410	750	548	420	278.00	236.20
Mean	8.44	22.3	20.5	14.5	25.7	44.1	45.5	25.0	17.7	13.5	9.93	7.62
Max.	10	53	54	26	77	110	138	34	21	15	12	10
Min.	7.00	10	9.70	10	11	25	26	21	15	12	8.80	6.60
Runoff - mcm.	21.868	59.789	53.084	38.880	68.774	114.480	121.824	64.800	47.347	36.288	24.019	20.408

WATER YEAR 1954 : Max. 138 Min. 6.60 Mean 21.3 Annual Runoff 671.561 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	12.00	345.73	151				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Taeng River at Nong Pa Oi, Chiang Mai (P.4)

Location: Lat 19°- 09' - 49" N, Long 98°- 55' - 03" E, on left bank 920 meters downstream from Huai San, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,834 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +342.937 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: 1953 - 1957

Rating Operation:

Period of Rating: 1953 - 1954
Rated by Float: -
Rated by Current Meter: 1953 - 1954

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

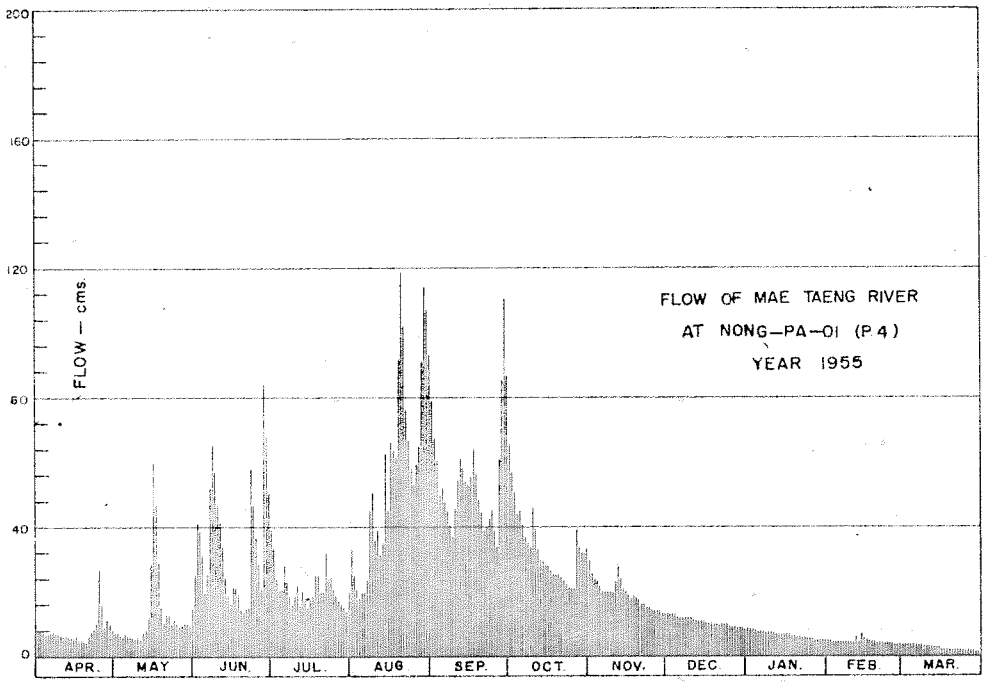
General Description: Records good. Stage - discharge relationship defined by discharge measurements made during 1953. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	343.71	343.69	344.13	344.33	344.22	344.84	344.66	344.15	348.84	383.73	343.63	343.58
2	.70	.67	.35	.14	.03	.68	.56	.09	.84	.73	.63	.58
3	.69	.66	.29	.08	.00	.64	.48	.06	.83	.72	.63	.57
4	.68	.66	.04	.06	343.94	.48	.40	.05	.83	.72	.62	.57
5	.69	.68	343.95	.08	344.00	.52	.41	.02	.82	.71	.62	.57
6	343.71	343.67	344.14	344.14	344.00	344.43	344.33	344.00	343.82	343.71	343.62	343.57
7	.70	.66	.52	.02	.06	.41	.28	343.99	.82	.70	.61	.57
8	.68	.65	.71	343.93	.41	.32	.26	.99	.81	.70	.61	.57
9	.68	.64	.50	.91	.50	.29	.24	.98	.81	.70	.61	.56
10	.67	.66	.41	.97	.27	.47	.43	344.00	.81	.70	.61	.56
11	343.67	343.67	344.35	344.03	344.32	344.56	344.31	344.07	343.80	343.69	343.61	343.56
12	.67	.70	.16	343.92	.20	.65	.21	.14	.80	.69	.66	.55
13	.66	.70	.63	344.00	.27	.58	.18	.05	.79	.69	.73	.55
14	.65	.84	343.94	343.93	.68	.53	.16	.00	.79	.69	.68	.55
15	.65	344.11	.91	.87	.41	.54	.13	343.98	.79	.68	.65	.55
16	343.64	344.64	344.01	343.95	344.72	344.58	344.13	343.96	343.78	343.68	343.64	343.54
17	.63	.38	.02	.96	.67	.74	.11	.95	.78	.68	.63	.54
18	.63	.12	343.96	344.09	.65	.56	.08	.96	.78	.67	.62	.54
19	.62	343.85	.87	.09	.98	.45	.08	.94	.77	.67	.62	.53
20	.62	.77	.86	343.98	345.37	.40	.08	.93	.77	.67	.61	.53
21	343.67	343.84	343.88	343.98	345.14	344.33	344.07	343.91	343.77	343.66	343.61	343.52
22	.70	.85	.88	344.20	344.81	.34	.04	.90	.76	.66	.60	.52
23	.74	.78	344.61	.06	.69	.39	.03	.89	.76	.66	.60	.52
24	.79	.79	.43	.09	.60	.41	.02	.88	.76	.65	.60	.51
25	344.12	.76	.18	.00	.53	.30	.01	.87	.75	.65	.60	.51
26	343.82	343.75	344.13	343.94	344.65	344.24	344.01	343.87	343.75	343.65	343.59	343.51
27	.74	.76	.02	.92	.72	.65	.32	.86	.75	.64	.59	.50
28	.80	.78	.96	.90	345.05	345.08	.20	.86	.74	.64	.59	.50
29	.76	.76	.67	.89	.31	.27	.21	.85	.74	.64	.58	.50
30	.71	.75	.37	.87	.18	344.85	.21	.85	.74	.64		.50
31		.90		344.00	.10		.22		.73	.63		.49
Mean	343.71	343.81	344.23	344.01	344.56	344.55	344.22	343.97	343.78	343.67	343.62	343.54
Max.	344.12	344.64	344.96	344.33	345.37	345.27	344.66	344.15	343.84	343.73	343.63	343.58
Min.	343.62	343.64	343.86	343.87	344.00	344.24	344.01	343.85	343.73	343.63	343.58	343.49

WATER YEAR 1955 : Max. 345.37 m. Min. 343.49 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.70	7.00	28	39	33	75	62	29	13	8.40	4.80	3.40
2	7.30	6.20	41	28	22	63	55	25	13	8.40	4.80	3.40
3	7.00	5.90	37	25	20	60	49	24	13	8.00	4.80	3.10
4	6.60	5.90	23	24	18	49	44	23	13	8.00	4.50	3.10
5	7.00	6.60	18	25	20	52	45	21	12	7.70	4.50	3.10
6	7.70	6.20	28	28	20	46	39	20	12	7.70	4.50	3.10
7	7.30	5.90	52	21	24	45	36	20	12	7.30	4.20	3.10
8	6.60	5.50	65	17	45	39	35	20	12	7.30	4.20	3.10
9	6.60	5.20	51	16	51	37	34	20	12	7.30	4.20	2.80
10	6.20	5.90	45	19	36	47	46	20	12	7.30	4.20	2.80
11	6.20	6.20	41	22	39	55	38	24	11	7.00	4.20	2.80
12	6.20	7.30	29	16	32	61	32	28	11	7.00	5.90	2.60
13	5.90	7.30	22	20	36	56	30	23	11	7.00	8.40	2.60
14	5.50	13	18	17	63	53	29	20	11	7.00	6.60	2.60
15	5.50	26	16	14	45	53	28	20	11	6.60	5.50	2.60
16	5.20	60	21	18	66	56	28	19	10	6.60	5.20	2.30
17	4.80	43	21	19	63	68	26	18	10	6.60	4.80	2.30
18	4.80	27	19	25	61	55	25	19	10	6.20	4.50	2.30
19	4.50	13	14	25	86	47	25	18	10	6.20	4.50	2.00
20	4.50	10	14	20	119	44	25	17	10	6.20	4.20	2.00
21	6.20	13	15	20	99	39	24	16	10	5.90	4.20	1.80
22	7.30	13	15	32	73	40	23	16	9.70	5.90	4.00	1.80
23	8.80	10	58	24	64	43	22	15	9.70	5.90	4.00	1.80
24	11	11	46	25	58	45	21	15	9.70	5.50	4.00	1.60
25	27	9.70	30	20	53	38	21	14	9.20	5.50	4.00	1.60
26	12	9.20	28	18	61	34	21	14	9.20	5.50	3.70	1.60
27	8.80	9.70	21	17	66	61	39	14	9.20	5.20	3.70	1.40
28	11	10	84	16	92	94	32	14	8.80	5.20	3.70	1.40
29	9.70	9.70	63	15	114	110	32	13	8.80	5.20	3.40	1.40
30	7.70	9.20	42	14	103	76	32	13	8.80	5.20		1.40
31		16		20	90		33		8.40	4.80		1.20
Total	232.60	393.60	1,005	659	1,772	1,641	1,031	572	330.50	208.60	133.20	72.10
Mean	7.75	12.7	33.5	21.3	57.2	54.7	33.3	19.1	10.7	6.57	4.59	2.32
Max.	27	60	84	39	119	110	62	29	13	8.40	4.80	3.40
Min.	4.50	5.20	14	14	18	34	21	13	8.40	4.80	3.40	1.20
Runoff - MCM.	20.097	34.007	86.832	56.938	153.101	141.782	89.078	49.421	28.555	17.591	11.508	6.229

WATER YEAR 1955 : Max. 119 Min. 1.20 Mean 22.0 Annual Runoff 695.140 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	07.00	345.38	120				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Taeng River at Nong Pa Oi, Chiang Mai (P.4)

Location: Lat 19° - 09' - 49" N, Long 98° - 55' - 03" E, on left bank 970 meters downstream from Huai San, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,834 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +342.937 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: 1953 - 1957

Rating Operation:

Period of Rating: 1953 - 1954

Rated by Float: -

Rated by Current Meter: 1953 - 1954

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

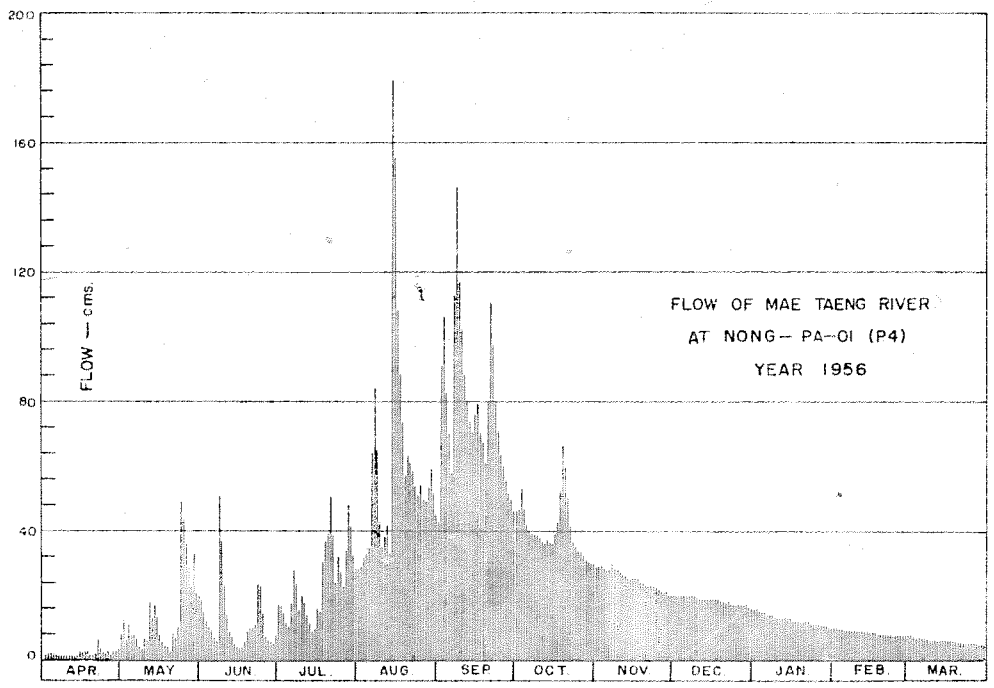
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relationship defined by discharge measurements made during 1953. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	343.49	343.72	343.95	343.92	344.13	344.38	344.43	344.16	344.00	343.91	343.78	343.70
2	.50	.82	.84	.92	.15	345.02	.45	.15	.00	.90	.78	.70
3	.53	.67	.79	.86	.20	.24	.53	.15	343.99	.89	.77	.69
4	.53	.80	.77	.79	.23	344.87	.41	.14	.99	.89	.76	.69
5	.52	.68	.75	.79	.28	.75	.36	.14	.99	.88	.75	.69
6	343.51	343.71	343.69	343.95	344.70	344.60	344.34	344.13	343.99	343.87	343.75	343.69
7	.50	.68	.66	344.14	.96	345.21	.33	.12	.98	.86	.75	.69
8	.49	.59	344.51	.04	.51	.68	.33	.17	.98	.86	.75	.68
9	.49	.57	.13	343.90	.32	.31	.32	.14	.98	.85	.75	.68
10	.48	.68	.03	.98	.26	.19	.31	.13	.97	.85	.74	.68
11	343.48	343.66	343.84	343.95	344.32	344.97	344.28	344.12	343.97	343.84	343.74	343.67
12	.47	.94	.74	.84	.37	.87	.27	.11	.97	.84	.74	.67
13	.48	.85	.69	.79	.22	.81	.29	.10	.97	.84	.74	.67
14	.49	.92	.65	.75	346.02	.77	.27	.09	.96	.83	.74	.67
15	.56	.77	.60	.77	345.72	.85	.28	.08	.96	.83	.73	.67
16	343.54	343.71	343.58	343.91	345.14	344.89	344.33	344.08	343.96	343.82	343.73	343.66
17	.55	.64	.61	.89	344.92	.75	.38	.08	.96	.82	.73	.66
18	.55	.61	.67	344.20	.75	.73	.53	.07	.96	.82	.72	.66
19	.49	.61	.75	.29	.58	.70	.72	.06	.95	.81	.72	.65
20	.49	.56	.76	.31	.68	.79	.60	.05	.94	.81	.72	.65
21	343.54	343.74	343.77	344.50	344.64	345.26	344.45	344.05	343.94	343.81	343.71	343.65
22	.67	.69	.79	.19	.60	.01	.31	.05	.94	.81	.71	.64
23	.57	.79	344.06	.07	.50	344.85	.28	.04	.93	.80	.71	.64
24	.54	344.47	.05	.20	.50	.74	.26	.03	.93	.80	.71	.64
25	.52	.39	343.78	.12	.55	.67	.23	.03	.93	.80	.71	.64
26	343.55	344.25	343.70	344.04	344.47	344.63	344.22	344.02	343.93	343.80	343.70	343.64
27	.51	.14	.67	.22	.48	.55	.21	.02	.92	.80	.70	.63
28	.55	.05	.67	.46	.55	.51	.19	.02	.92	.80	.70	.63
29	.57	.23	.65	.30	.62	.48	.17	.01	.92	.79		.63
30	.60	343.96	.72	.18	.49	.43	.17	.00	.91	.78		.63
31		.98		.14	.39		.17		.91	.78		.63
Mean	343.52	343.83	343.79	344.05	344.59	344.85	344.34	344.08	343.96	343.83	343.73	343.66
Max.	343.67	344.47	344.51	344.50	346.02	345.68	344.72	344.16	344.00	343.91	343.78	343.70
Min.	343.47	343.57	343.58	343.75	344.13	344.38	344.17	344.00	343.91	343.78	343.70	343.63

WATER YEAR 1956 : Max. 346.02 m. Min. 343.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.20	8.00	18	17	28	43	46	29	20	16	10	7.30
2	1.40	12	13	17	29	89	47	29	20	16	10	7.30
3	2.00	6.20	11	14	32	106	53	29	20	15	10	7.00
4	2.00	11	10	11	33	77	45	28	20	15	9.70	7.00
5	1.80	6.60	9.20	11	36	68	41	28	20	15	9.20	7.00
6	1.60	7.70	7.00	18	65	58	40	28	20	14	9.20	7.00
7	1.40	6.60	5.90	28	84	105	39	28	20	14	9.20	7.00
8	1.20	3.70	51	23	51	146	39	30	20	14	9.20	6.60
9	1.20	3.10	28	16	40	114	39	28	20	13	9.20	6.60
10	1.00	6.60	22	20	35	103	38	28	19	13	8.80	6.60
11	1.00	5.90	13	18	39	85	36	27	19	13	8.80	6.20
12	0.80	18	8.80	13	42	77	36	26	19	13	8.80	6.20
13	1.00	13	7.00	11	33	73	37	26	19	13	8.80	6.20
14	1.20	17	5.50	9.20	179	70	36	25	19	13	8.80	6.20
15	2.80	10	4.00	10	150	76	36	25	19	13	8.40	6.20
16	2.30	7.70	3.40	16	99	79	39	25	19	12	8.40	5.90
17	2.60	5.20	4.00	15	81	68	43	25	19	12	8.40	5.90
18	2.60	4.20	6.20	32	68	67	53	24	19	12	8.00	5.90
19	1.20	4.20	9.20	37	56	65	66	24	18	12	8.00	5.50
20	1.20	2.80	9.70	38	63	79	58	23	18	12	8.00	5.50
21	2.30	8.80	10	51	60	110	47	23	18	12	7.70	5.50
22	6.20	7.00	11	31	58	88	38	23	18	12	7.70	5.20
23	3.10	11	24	24	51	76	36	23	17	11	7.70	5.20
24	2.30	49	23	32	51	68	35	22	17	11	7.70	5.20
25	1.80	43	10	27	54	63	33	22	17	11	7.70	5.20
26	2.60	35	7.30	23	49	60	33	21	17	11	7.30	5.20
27	1.40	28	6.20	33	49	54	32	21	17	11	7.30	4.80
28	2.60	23	6.20	48	54	51	31	21	17	11	7.30	4.80
29	3.10	33	5.50	38	59	49	30	20	17	11		4.80
30	4.00	19	8.00	30	50	46	30	20	16	10		4.80
31		20		28	43		30		16	10		4.80
Total	60.90	436.50	357.10	739.20	1,821	2,313	1,242	751	574	391	239.30	184.60
Mean	2.03	14.1	11.9	23.8	58.7	77.1	40.1	25.0	18.5	12.6	8.55	5.95
Max.	6.20	49	51	51	179	146	66	29	20	16	10	7.30
Min.	0.80	3.10	3.40	9.20	28	43	30	20	16	10	7.30	4.80
Runoff – mcm.	5.262	37.696	30.853	63.867	157.334	199.843	107.309	64.886	49.594	33.782	20.675	15.949

WATER YEAR 1956 : Max. 179 Min. 0.80 Mean 24.9 Annual Runoff 787.052 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 14	16.00	346.34	211				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +333.745 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 - 60, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1955 - 60, 1967 - Cont'd.

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

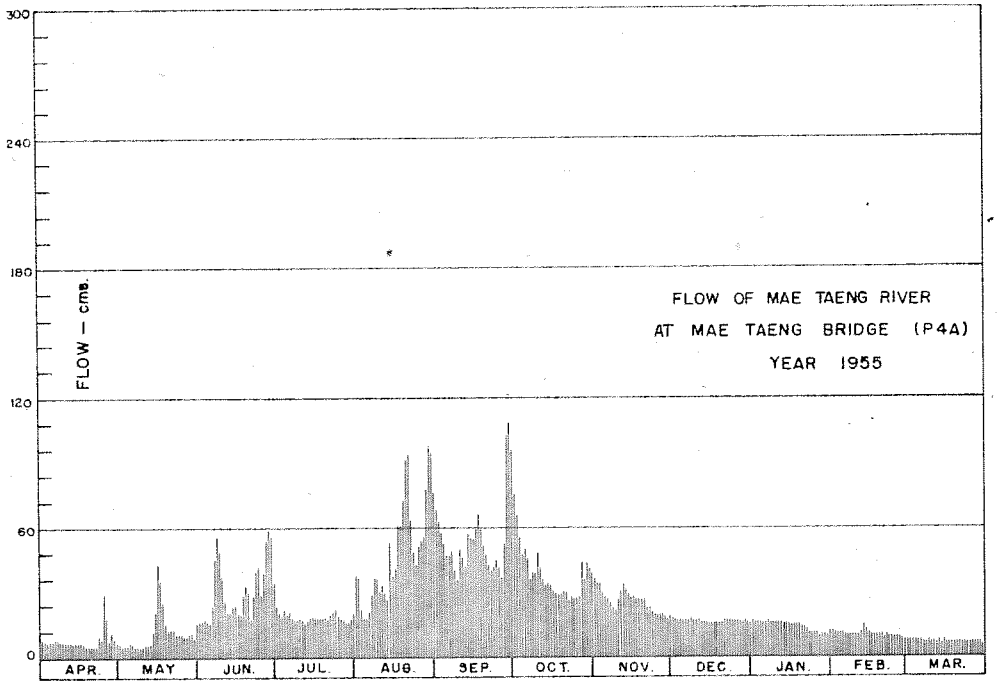
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.48	334.42	334.73	334.90	335.08	335.56	335.52	335.07	334.70	334.64	334.58	334.48
2	.45	.38	.74	.80	.06	.47	.43	.03	.70	.63	.56	.48
3	.45	.38	.75	.77	334.74	.39	.30	.03	.69	.62	.56	.48
4	.45	.38	.75	.82	.71	.30	.22	334.92	.69	.62	.56	.48
5	.45	.45	.74	.79	.71	.24	.25	.92	.68	.61	.56	.48
6	334.48	334.42	334.87	334.81	334.76	335.24	335.15	334.90	334.68	334.60	334.53	334.48
7	.48	.35	335.21	.76	.91	.25	.01	.88	.68	.60	.53	.45
8	.45	.38	.36	.73	335.06	.12	.12	.82	.69	.59	.53	.45
9	.45	.38	.22	.73	.06	.04	.12	.80	.68	.58	.53	.48
10	.45	.38	334.99	.75	334.94	.27	.26	.92	.68	.58	.53	.45
11	334.45	334.42	334.87	334.72	334.96	335.21	335.16	334.99	334.68	334.58	334.53	334.48
12	.45	.42	.80	.70	.90	.15	.07	335.03	.67	.57	.58	.45
13	.42	.45	.82	.72	.84	.38	.01	334.96	.67	.57	.65	.48
14	.42	.58	.86	.72	335.31	.36	.03	.94	.67	.57	.58	.45
15	.42	.80	.88	.71	.07	.36	.01	.90	.67	.56	.56	.48
16	334.42	335.18	334.80	334.72	335.10	335.43	334.97	334.92	334.66	334.56	334.53	334.45
17	.42	334.99	.80	.70	.45	.54	.96	.90	.66	.56	.53	.45
18	.38	.80	.96	.70	.46	.40	.94	.90	.66	.55	.53	.45
19	.38	.61	335.05	.70	.57	.28	.94	.90	.66	.54	.53	.45
20	.38	.58	334.99	.75	.89	.26	.97	.90	.66	.53	.53	.45
21	334.38	334.61	334.74	334.69	335.93	335.22	334.96	334.80	334.66	334.52	334.51	334.45
22	.38	.61	.98	.75	.42	.16	.90	.82	.66	.51	.53	.42
23	.53	.53	335.15	.78	.34	.19	.92	.78	.65	.50	.51	.45
24	.48	.56	.19	.80	.24	.23	.90	.76	.65	.56	.51	.45
25	.94	.53	334.97	.74	.31	.14	.90	.76	.65	.56	.51	.42
26	334.53	334.51	335.20	334.72	335.36	335.06	334.92	334.76	334.65	334.56	334.51	334.42
27	.45	.51	.38	.71	.39	.35	335.20	.76	.65	.53	.51	.42
28	.56	.56	.48	.66	.69	.80	.07	.74	.65	.56	.48	.42
29	.48	.56	.45	.66	.92	.95	.20	.72	.65	.53	.48	.42
30	.42	.51	.11	.70	.92	.81	.15	.74	.64	.53		.38
31		.65		.77	.58		.07		.64	.58		.38
Mean	334.46	334.54	334.99	334.74	335.25	335.34	335.08	334.87	334.67	334.57	334.54	334.45
Max.	334.94	335.18	335.48	334.90	335.93	335.95	335.52	335.07	334.70	334.64	334.65	334.48
Min.	334.38	334.35	334.73	334.66	334.71	335.04	334.90	334.72	334.64	334.50	334.48	334.38

WATER YEAR 1955 : Max. 335.95 m. Min. 334.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.04	6.06	16	24	38	68	71	36	18	17	12	8.04
2	7.05	4.90	17	20	37	62	65	34	18	16	11	8.04
3	7.05	4.90	17	19	19	56	54	34	17	16	11	8.04
4	7.05	4.90	16	22	18	51	47	28	17	16	11	8.04
5	7.05	7.05	16	20	18	47	50	28	17	16	11	8.04
6	8.04	6.06	24	21	20	47	45	27	17	16	9.87	8.04
7	8.04	4.15	43	19	29	49	33	26	17	17	9.87	7.05
8	7.05	4.90	56	17	37	40	39	23	18	16	9.87	7.05
9	7.05	4.90	47	17	37	36	39	22	17	16	9.87	8.04
10	7.05	4.90	33	18	31	50	48	28	17	16	9.87	7.05
11	7.05	6.06	25	17	33	45	42	32	17	16	9.87	8.04
12	7.05	6.06	21	16	30	42	36	34	16	16	12	7.05
13	6.06	7.05	21	17	27	57	33	30	16	16	15	8.04
14	6.06	12	23	18	53	55	34	29	16	16	12	7.05
15	6.06	22	24	19	38	55	33	27	16	15	11	8.04
16	6.06	43	20	19	40	59	31	28	16	15	9.87	7.05
17	6.06	32	20	18	61	66	30	27	16	15	9.87	7.05
18	4.90	22	28	18	61	57	29	27	16	15	9.87	7.05
19	4.90	13	33	18	68	49	29	27	16	15	9.87	7.05
20	4.90	12	30	19	90	47	31	27	16	14	9.87	7.05
21	4.90	13	17	17	94	43	30	22	17	14	9.09	7.05
22	4.90	13	29	20	55	40	27	23	17	13	9.87	6.06
23	9.87	9.87	39	21	50	42	28	21	17	13	9.09	7.05
24	8.04	11	42	22	43	45	27	20	17	11	9.09	7.05
25	29	9.87	29	19	51	40	27	20	17	11	9.09	6.06
26	9.87	9.09	42	18	54	37	28	20	17	11	9.09	6.06
27	7.05	9.09	53	17	57	55	44	20	17	9.87	9.09	6.06
28	11	11	59	16	79	102	36	19	17	11	8.04	6.06
29	8.04	11	56	16	98	109	44	18	17	9.87	8.04	6.06
30	6.06	9.09	35	18	98	95	41	19	16	9.87		4.90
31		15		21	71		38		16	12		4.90
Total	231.30	348.90	931	581	1,535	1,646	1,189	776	519	440.61	295.06	218.21
Mean	7.71	11.2	31.0	18.7	49.5	54.9	38.3	25.9	16.7	14.2	10.2	7.04
Max.	29	43	59	24	98	109	71	36	18	17	15	8.04
Min.	4.90	4.15	16	16	18	36	27	18	16	9.87	8.04	4.90
Runoff - mcm.	19.984	30.145	80.438	50.198	132.624	142.214	102.730	67.046	44.842	38.069	25.493	18.853

WATER YEAR 1955 : Max. 109 Min. 4.90 Mean 23.9 Annual Runoff 752.637 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 29	12.00	335.99	113				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +333.745 m. (M.S.L.)

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

Location: On left bank at 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 - 60, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1955 - 60, 1967 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

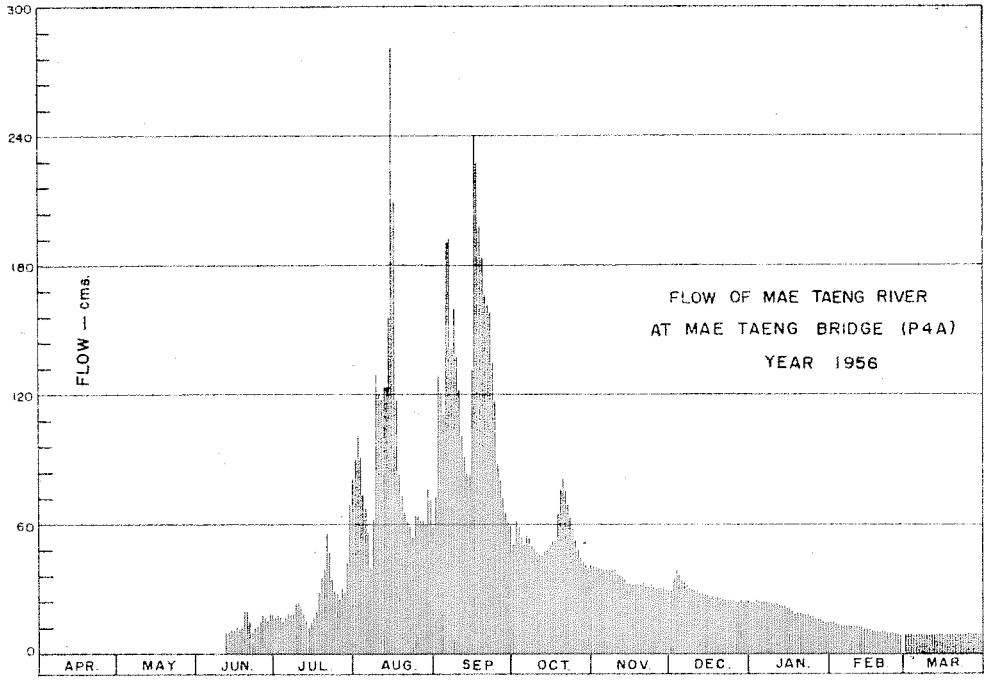
General Description: Records fair, except those for period of no gage height which are poor. Stage - discharge relationship defined by discharge measurements made during 1956. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				334.56	335.70	335.63	335.32	335.12	334.90	334.74	334.51	334.37
2				.62	.80	336.25	.46	.11	.89	.74	.51	.37
3				.57	.70	.15	.43	.10	.88	.74	.50	.37
4				.51	.43	.10	.34	.09	.87	.73	.50	.37
5				.56	.41	.51	.30	.08	.86	.73	.49	.36
6				334.62	335.21	336.78	335.36	335.07	334.85	334.72	334.49	334.36
7				.62	.13	.32	.32	.06	.85	.72	.48	.36
8				.62	.42	.44	.28	.06	.84	.72	.48	.36
9				.71	336.12	.31	.26	.05	.84	.71	.47	.36
10				.75	.03	.12	.24	.04	.83	.70	.47	.36
11				334.71	335.98	335.95	335.22	335.03	334.83	334.69	334.45	334.35
12			334.35	.64	336.00	.90	.22	.03	.82	.68	.45	.35
13			.36	.55	335.96	.80	.24	.02	.82	.67	.44	.35
14			.37	.46	336.31	.74	.26	.01	.81	.66	.44	.35
15			.39	.49	337.10	336.25	.28	.00	.81	.65	.43	.35
16			334.44	334.54	336.13	337.11	335.30	334.99	334.80	334.64	334.43	334.35
17			.39	.64	335.77	336.82	.34	.99	.80	.63	.42	.35
18			.44	.79	.65	.76	.49	.98	.79	.62	.41	.35
19			.63	.87	.57	.60	.64	.97	.79	.61	.41	.35
20			.63	.98	.49	.44	.70	.97	.79	.60	.41	.35
21			334.48	335.24	335.49	336.42	335.62	334.96	334.78	334.49	334.40	334.35
22			.36	.11	.47	.34	.53	.95	.78	.58	.40	.35
23			.42	334.85	.43	.18	.44	.95	.78	.57	.39	.35
24			.45	.78	.54	.00	.35	.94	.77	.56	.39	.35
25			.54	.79	.52	335.82	.27	.93	.77	.55	.38	.35
26			334.60	334.74	335.44	335.66	335.21	334.93	334.76	334.54	334.38	334.34
27			.58	.83	.46	.57	.17	.92	.76	.54	.37	.34
28			.53	.78	.44	.48	.15	.91	.76	.53	.37	.34
29			.61	335.08	.67	.28	.13	.91	.75	.52		.34
30			.58	.40	.57	.44	.12	.90	.75	.52		.34
31				.55	.43		.14		.75	.51		
Mean				334.77	335.69	336.14	335.33	335.00	334.81	334.63	334.44	334.35
Max.				335.55	337.10	337.11	335.70	335.12	334.90	334.74	334.51	334.37
Min.				334.46	335.13	335.28	335.12	334.90	334.75	334.51	334.37	334.34

WATER YEAR 1956 : Max. 337.11 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				17	92	71	51	40	29	24	15	9.40
2				19	102	129	62	40	34	24	15	9.40
3				17	91	117	59	40	39	25	14	9.40
4				15	69	111	53	39	37	24	14	9.40
5				17	68	165	51	39	34	24	13	9.10
6				19	54	193	55	39	33	24	13	9.10
7				19	47	143	53	39	32	24	13	9.10
8				19	66	158	50	39	31	24	13	9.10
9				23	130	138	49	39	30	24	13	9.10
10				24	119	117	47	37	29	23	13	9.10
11				22	118	98	46	36	29	23	12	8.80
12			10	19	124	92	46	35	28	22	12	8.80
13			10	16	124	83	48	34	28	22	12	8.80
14			11	13	180	78	49	33	27	22	11	8.80
15			11	15	280	130	51	32	27	21	11	8.80
16			13	17	139	240	52	32	26	21	11	8.80
17			11	21	90	204	54	32	27	20	10	8.80
18			13	29	80	196	65	32	26	19	10	8.80
19			20	35	72	176	76	32	26	19	10	8.80
20			20	40	64	165	81	33	26	19	10	8.80
21			14	56	61	163	75	31	25	18	10	8.80
22			10	47	58	158	68	31	25	18	10	8.80
23			12	32	54	135	62	32	25	17	9.80	8.80
24			13	28	64	113	57	31	25	17	9.80	8.80
25			16	28	64	90	51	31	25	16	9.60	8.80
26			18	26	62	80	47	31	24	16	9.60	8.70
27			17	31	62	71	44	31	24	16	9.40	8.70
28			16	29	60	64	42	31	25	16	9.40	8.70
29			19	46	76	49	41	30	24	15		8.70
30			18	68	72	59	40	29	25	15		8.70
31				80	59		41		25	15		8.70
Total				887	2,801	3,786	1,666	1,030	870	627	322.60	276.40
Mean				28.6	90.3	126	53.7	34.3	28.1	20.2	11.5	8.92
Max.				80	280	240	81	40	39	25	15	9.40
Min.				13	47	49	40	29	24	15	9.40	8.70
Runoff - mcm.				76.637	242.006	327.110	143.942	88.992	75.168	54.173	27.873	23.881

WATER YEAR 1956 : Max. 280 Min. 8.70 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 15	09.00	337.24	300				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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, infront of of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km.

Type of Gage: Staff gage.

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

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

Location: On right bank near 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, 1957 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 60, 1957 - Cont'd.

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

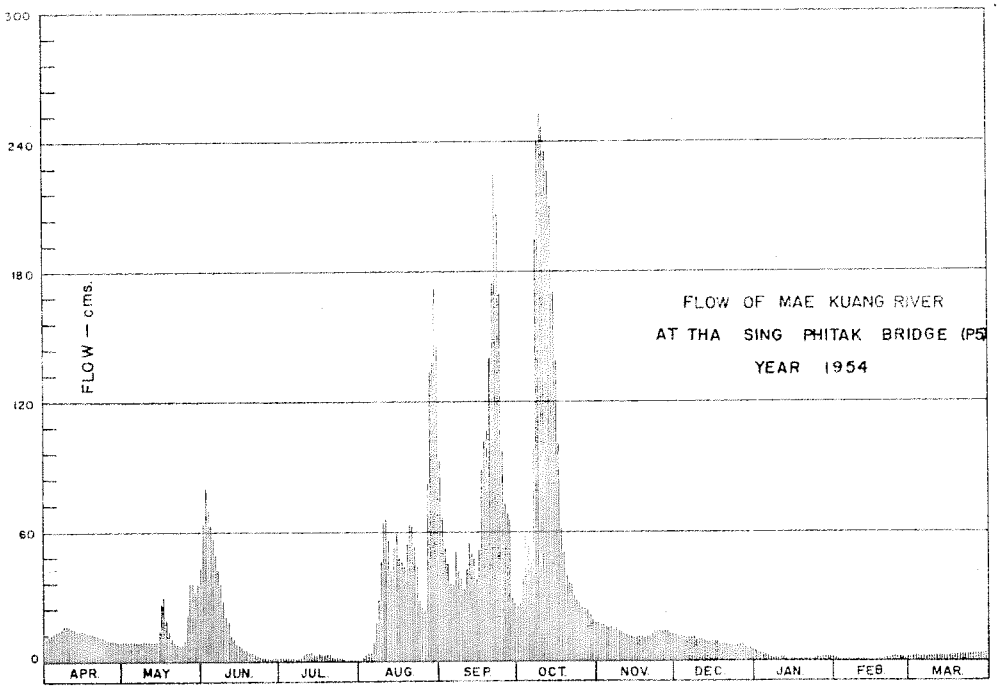
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. 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 1,1954 TO MARCH 31,1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	290.22	290.16	291.47	289.75	289.63	292.06	290.73	290.49	290.31	289.98	289.70	289.74
2	.26	.16	.98	.74	.72	291.79	.76	.47	.28	.95	.68	.75
3	.29	.19	.82	.74	.90	.41	.81	.45	.28	.92	.66	.75
4	.32	.19	.62	.73	.93	.26	291.52	.44	.27	.90	.65	.75
5	.34	.18	.56	.72	.96	.00	.42	.44	.26	.88	.64	.73
6	290.37	290.18	291.30	289.72	290.16	290.99	291.27	290.42	290.25	289.84	289.62	289.73
7	.39	.17	.14	.72	.40	291.38	.26	.40	.24	.80	.61	.74
8	.41	.17	.00	.72	.79	.15	292.94	.39	.24	.76	.60	.75
9	.42	.15	290.80	.75	.95	.09	294.14	.37	.21	.75	.60	.76
10	.42	.15	.60	.90	291.65	290.94	.33	.34	.20	.73	.60	.76
11	290.40	290.15	290.50	289.93	291.70	290.94	294.22	290.33	290.20	289.71	289.60	289.77
12	.39	.16	.30	.94	.44	291.46	.04	.30	.19	.70	.60	.77
13	.37	.16	.20	.93	.15	.36	293.96	.27	.19	.69	.60	.78
14	.37	.15	.14	.86	.38	.28	.80	.27	.17	.69	.60	.78
15	.36	.14	290.10	.86	.55	.05	.12	.26	.17	.69	.60	.79
16	290.36	290.73	290.06	289.91	291.31	291.26	292.79	290.25	290.16	289.69	289.61	289.80
17	.34	.81	.01	.89	.26	292.11	291.81	.25	.15	.69	.62	.80
18	.33	.51	289.99	.88	.22	.35	.48	.24	.14	.68	.64	.81
19	.31	.38	.94	.86	.27	.44	.33	.24	.13	.68	.66	.81
20	.30	.22	.91	.90	.64	.93	.06	.28	.13	.67	.68	.82
21	290.28	290.17	289.89	289.76	291.62	293.11	291.02	290.29	290.12	289.66	289.70	289.82
22	.26	.13	.84	.75	.42	.97	290.99	.33	.12	.66	.71	.82
23	.23	.11	.80	.73	.16	.81	.86	.37	.13	.67	.72	.83
24	.21	.10	.78	.73	290.83	.36	.80	.37	.13	.68	.74	.84
25	.20	.16	.75	.74	.73	291.93	.77	.36	.14	.70	.75	.85
26	290.20	290.35	289.73	289.66	290.66	291.82	290.72	290.35	290.13	289.72	289.77	289.86
27	.18	291.01	.73	.64	.85	.74	.70	.34	.10	.74	.76	.87
28	.17	.02	.72	.63	292.86	.68	.67	.34	.07	.75	.74	.88
29	.16	290.88	.75	.60	.92	290.83	.60	.33	.04	.74		.89
30	.15	.95	.76	.59	293.38	.76	.53	.33	.03	.73		.90
31		291.15		.59	292.90		.50		.00	.72		.91
Mean	290.30	290.36	290.40	289.77	291.17	291.76	291.77	290.34	290.17	289.75	289.66	289.80
Max.	290.42	291.15	291.98	289.94	293.38	293.97	294.33	290.49	290.31	289.98	289.77	289.91
Min.	290.15	290.10	289.72	289.59	289.63	290.76	290.50	290.24	290.00	289.66	289.60	289.73

WATER YEAR 1954 : Max. 294.33 m. Min. 289.59 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	8.84	55	1.80	0.71	84	26	18	13	5.04	1.20	1.68
2	11	8.84	80	1.68	1.44	71	27	17	12	4.50	1.06	1.80
3	12	9.56	72	1.68	3.60	53	29	17	12	3.96	0.92	1.80
4	13	9.56	62	1.56	4.14	46	58	16	12	3.60	0.85	1.80
5	14	9.32	57	1.44	4.68	36	53	16	11	3.36	0.78	1.56
6	14	9.32	48	1.44	8.84	35	46	16	11	2.88	0.64	1.56
7	15	9.08	41	1.44	15	51	46	15	11	2.40	0.57	1.68
8	16	9.08	36	1.44	28	42	138	15	11	1.92	0.50	1.80
9	16	8.60	28	1.80	34	39	236	14	10	1.80	0.50	1.92
10	16	8.60	21	3.60	64	33	252	14	9.80	1.56	0.50	1.90
11	15	8.60	18	4.14	66	33	245	13	9.80	1.32	0.50	2.04
12	15	8.84	12	4.32	54	55	227	12	9.56	1.20	0.50	2.04
13	14	8.84	9.80	4.14	42	50	225	12	9.56	1.13	0.50	2.16
14	14	8.60	8.36	3.42	51	47	208	12	9.08	1.13	0.50	2.16
15	14	8.36	7.40	3.42	59	38	151	11	9.08	1.13	0.50	2.28
16	14	26	6.60	3.78	48	46	128	11	8.84	1.13	0.57	2.40
17	13	29	5.60	3.48	46	87	72	11	8.60	1.13	0.64	2.40
18	13	19	5.22	3.36	44	101	96	11	8.36	1.06	0.78	2.52
19	13	15	4.32	3.12	46	106	49	11	8.12	1.06	0.92	2.52
20	12	10	3.78	3.60	63	138	38	12	8.12	0.99	1.06	2.64
21	12	9.08	3.48	1.92	62	150	36	12	7.88	0.92	1.20	2.64
22	11	8.12	2.88	1.80	53	225	35	13	7.88	0.92	1.32	2.64
23	11	7.64	2.40	1.56	42	210	30	14	8.12	0.99	1.44	2.70
24	10	7.40	2.16	1.56	29	169	28	14	8.12	1.06	1.68	2.88
25	9.80	8.84	1.80	1.68	26	78	27	14	8.36	1.20	1.80	3.00
26	9.80	14	1.56	0.92	23	72	25	14	8.12	1.44	2.04	3.12
27	9.32	36	1.56	0.78	30	68	25	14	7.40	1.68	1.92	3.24
28	9.08	36	1.44	0.71	133	65	24	14	6.80	1.80	1.68	3.36
29	8.84	31	1.80	0.60	137	29	21	13	6.20	1.68		3.48
30	8.60	34	1.92	0.45	171	27	19	13	6.00	1.56		3.60
31		42		0.45	135		18		5.40	1.44		3.78
Total	373.44	467.12	602.08	66.59	1,524.41	2,284	2,598	409	282.20	56.99	27.07	75.18
Mean	12.4	15.1	20.1	2.14	49.2	76.1	83.8	13.6	9.10	1.84	0.97	2.42
Max.	16	42	80	4.32	171	225	252	18	13	5.04	2.04	3.78
Min.	8.60	7.40	1.44	0.45	0.71	27	18	11	5.40	0.92	0.50	1.56
Runoff - MCM.	32.265	40.359	52.020	5.736	131.709	197.338	224.467	35.338	24.382	4.924	2.339	6.495

WATER YEAR 1954 : Max. 252 Min. 0.45 Mean 24.0 Annual Runoff 757.372 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	06.00	294.38	258				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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, infront of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km.

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 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 - 1960, 1957 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 1960, 1957 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

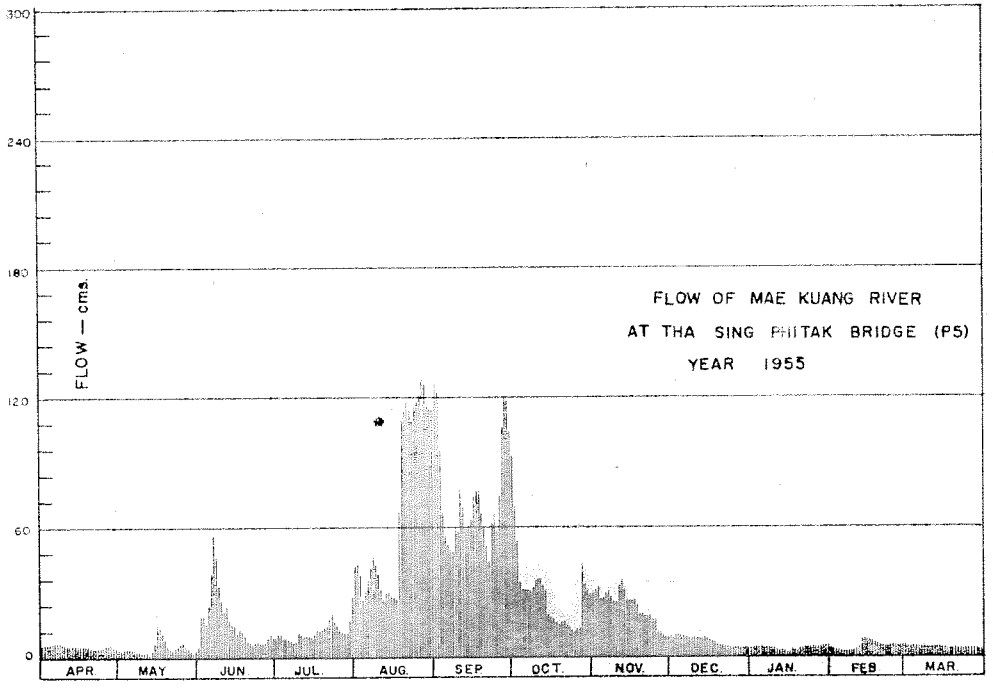
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream state diversions for irrigation of about 9,600 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.91	289.85	289.94	290.10	291.35	293.54	292.59	291.21	290.15	289.79	289.84	289.89
2	.90	.84	290.49	.19	.44	.42	.00	.18	.10	.79	.84	.89
3	.91	.87	.43	.14	.21	292.59	291.53	.15	.10	.78	.84	.89
4	.95	.87	.33	.09	290.99	.00	.27	290.88	.10	.78	.84	.89
5	.98	.86	.34	.10	291.04	291.66	.12	.84	.10	.83	.84	.88
6	290.01	289.85	290.96	290.10	291.17	291.49	291.07	290.81	290.10	289.81	289.85	289.88
7	.00	.83	291.59	.09	.35	.45	.00	.79	.10	.80	.85	.88
8	289.97	.81	.37	.05	.48	.39	290.98	.76	.09	.80	.85	.86
9	.96	.77	.02	.00	.40	.77	.95	.75	.09	.80	.84	.85
10	.94	.76	290.70	.22	.30	.77	291.12	.76	.10	.80	.84	.85
11	289.93	289.73	290.62	290.16	291.20	292.35	291.10	291.11	290.10	289.79	289.85	289.84
12	.93	.70	.68	.13	.17	.03	.07	.24	.10	.79	.88	.83
13	.91	.63	.43	.14	.14	291.86	.01	.07	.10	.79	290.11	.83
14	.91	.78	.32	.12	.10	.92	290.95	290.93	.10	.79	.16	.82
15	.91	290.00	.20	.09	.07	292.00	.57	.90	.08	.79	.13	.81
16	289.88	290.39	290.19	290.13	291.05	292.27	290.53	290.88	290.07	289.78	290.10	289.81
17	.88	.32	.31	.28	290.98	.27	.49	.86	.06	.78	.07	.81
18	.88	.16	.22	.24	.92	.21	.48	.82	.05	.79	.02	.80
19	.86	.08	.13	.27	293.16	291.83	.45	.63	.00	.80	.00	.80
20	.85	289.98	.05	.32	.34	.76	.50	.61	289.98	.81	289.99	.80
21	289.84	289.92	289.96	290.34	293.37	291.51	290.48	290.59	289.92	289.84	289.97	289.80
22	.84	.87	.92	.50	.28	.50	.48	.57	.88	.85	.97	.86
23	.83	.90	.98	.57	.17	292.11	.41	.55	.84	.85	.95	.79
24	.82	.94	.98	.42	.32	.18	.38	.50	.83	.84	.95	.79
25	.87	290.02	.94	.33	.49	291.84	.34	.47	.81	.84	.95	.79
26	289.88	289.99	289.95	290.28	293.58	291.81	290.46	290.29	289.81	289.84	289.94	289.79
27	.89	.93	.97	.23	.72	292.88	.50	.26	.80	.83	.93	.79
28	.89	.81	290.12	.22	.71	293.07	291.46	.23	.80	.84	.93	.78
29	.86	.74	.19	.21	.51	.21	.37	.19	.80	.83	.92	.78
30	.85	.70	.13	.32	.37	.01	.29	.17	.79	.83		.78
31		.80		.78	.37		.26		.79	.84		.78
Mean	289.90	289.89	290.35	290.23	292.12	292.16	290.94	290.74	290.00	289.81	289.94	289.83
Max.	290.01	290.39	291.59	290.78	293.72	293.54	292.59	291.24	290.15	289.85	290.16	289.89
Min.	289.82	289.63	289.93	290.00	290.92	291.50	290.34	290.17	289.79	289.78	289.84	289.78

WATER YEAR 1955 : Max. 293.72 m. Min. 289.63 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.36	3.52	5.52	8.80	41	126	86	30	9.80	4.22	4.22	5.06
2	5.20	3.38	19	11	43	122	65	31	9.40	4.22	3.94	5.06
3	5.36	3.80	19	10	37	88	45	33	10	4.22	3.52	5.06
4	6.00	3.80	16	8.60	26	67	34	27	11	4.22	3.10	5.06
5	6.48	3.66	17	8.60	29	56	31	27	10	5.06	2.68	4.92
6	6.98	3.52	32	8.00	34	51	31	29	9.80	4.78	2.40	4.92
7	6.80	3.24	56	8.00	41	50	31	30	9.20	4.64	2.68	4.92
8	6.32	2.96	47	7.00	46	48	31	27	9.00	4.40	2.96	4.64
9	6.16	2.40	35	7.00	42	59	31	26	9.90	4.08	3.10	4.50
10	5.84	2.26	24	11	37	58	36	25	9.00	3.90	3.38	4.50
11	5.68	1.84	21	10	32	77	36	33	9.00	3.38	3.80	4.36
12	5.68	1.42	23	10	27	65	35	35	9.00	3.10	4.22	4.22
13	5.36	0.60	17	10	29	59	33	31	9.00	2.82	8.06	4.22
14	5.36	3.10	15	10	29	60	30	27	9.00	2.54	9.00	4.08
15	5.36	6.48	14	9.40	28	62	19	26	8.42	2.26	8.42	3.94
16	4.92	15	11	10	28	74	18	26	7.88	2.40	7.88	3.94
17	4.92	14	13	13	27	76	17	26	7.34	3.68	7.34	3.94
18	4.92	11	12	12	26	76	16	25	6.80	3.10	6.48	3.80
19	4.64	9.00	10	13	105	65	15	20	5.68	3.52	6.10	3.80
20	4.50	5.84	7.88	14	114	61	16	20	5.68	3.80	6.00	3.80
21	4.36	3.66	6.48	14	117	51	16	19	5.20	4.36	5.68	3.80
22	4.36	3.52	5.68	18	113	44	15	19	5.20	4.64	5.68	4.64
23	4.22	4.36	6.80	20	109	61	14	19	4.92	4.64	5.36	3.66
24	4.08	5.52	7.16	16	115	66	13	17	4.78	4.60	5.36	3.66
25	4.78	6.80	6.32	14	118	58	12	17	4.50	4.60	5.36	3.66
26	4.92	6.48	6.00	13	120	60	14	12	4.50	4.74	5.20	3.66
27	5.06	5.68	6.32	11	129	103	14	11	4.36	4.64	5.06	3.66
28	5.06	3.94	9.00	11	126	119	43	10	4.36	4.92	5.06	3.52
29	4.64	2.82	10	11	116	118	35	9.40	4.36	4.78	4.92	3.52
30	4.50	2.12	9.40	15	113	105	31	9.40	4.22	4.92		3.52
31		3.52		27	115		29		4.22	5.06		3.52
Total	157.82	149.24	487.56	369.40	2,112	2,184	892	696.80	224.62	126.24	147.02	129.56
Mean	5.26	4.81	16.2	11.9	68.1	72.8	28.8	22.48	7.25	4.07	5.07	4.18
Max.	6.98	15	56	27	129	126	86	35	11	5.06	9.00	5.06
Min.	4.08	0.60	5.52	7.00	26	44	12	9.40	4.22	2.26	2.40	3.52
Runoff — mcm.	13.635	12.894	42.125	31.916	182.477	188.698	77.069	60.204	19.407	10.907	12.703	11.194

WATER YEAR 1955 : Max. 129 Min. 0.60 Mean 20.97 Annual Runoff 663.229 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 27	06.00	295.72	132				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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, infront of Phratat Hariphunchai Temple, Amphoe Muang, Lamphun.

Drainage Area: 1,569 sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – M.S./R.I.D. No.7

Location: On right bank near 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, 1957 – Cont'd.
Rated by Float: –
Rated by Current Meter: 1954 – 60, 1957 – Cont'd.

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

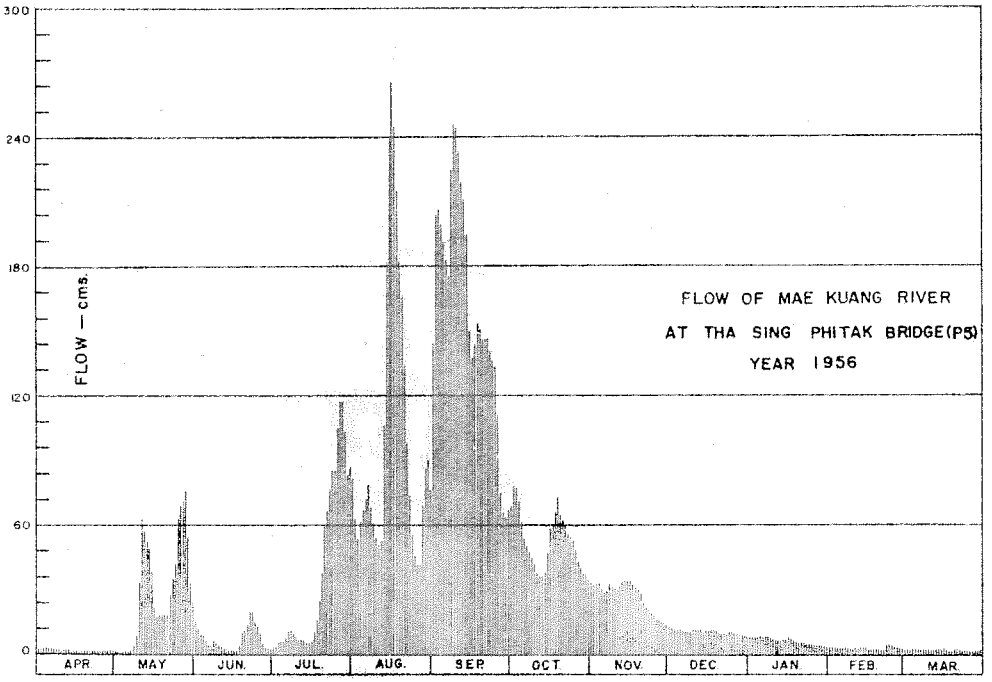
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1956. 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, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.78	289.64	290.38	289.79	291.99	292.59	291.60	290.70	290.24	289.99	289.81	289.71
2	.77	.63	.30	.89	.52	293.96	.78	.68	.18	.99	.81	.71
3	.77	.63	.12	.90	.34	.99	.72	.65	.16	.98	.80	.72
4	.76	.62	.07	.93	.53	.90	.56	.59	.16	.99	.79	.72
5	.76	.61	289.92	.96	.67	.70	.33	.56	.14	290.04	.78	.71
6	289.76	289.62	289.87	290.01	291.77	293.67	291.14	290.51	290.13	290.03	289.77	289.71
7	.75	.64	.84	.19	.93	.57	.10	.54	.11	.03	.76	.71
8	.74	.77	.96	.21	.70	294.11	.06	.65	.10	.02	.75	.71
9	.73	.93	.90	.16	291.43	.44	290.96	.63	.10	.00	.74	.71
10	.72	290.48	.85	.04	.37	.40	.90	.61	.13	289.96	.74	.70
11	289.71	291.62	289.83	290.01	291.33	294.31	290.78	290.61	290.13	287.94	289.73	289.69
12	.70	.51	.80	289.98	.34	.11	.75	.65	.11	.94	.78	.69
13	.70	.36	.74	.74	.87	.03	.76	.67	.11	.97	.83	.68
14	.70	.28	.71	.91	292.28	293.60	.78	.69	.10	.99	.85	.68
15	.68	290.91	.71	.90	294.21	.03	291.02	.72	.10	290.00	.82	.66
16	289.68	290.60	289.70	289.92	294.66	293.08	291.29	290.74	290.09	290.01	289.79	289.65
17	.68	.45	.70	290.13	.41	.23	.30	.70	.08	289.99	.76	.63
18	.67	.45	.71	.31	.09	.41	.45	.68	.07	.95	.74	.61
19	.67	.46	290.15	.63	293.52	.32	.56	.65	.06	.93	.71	.60
20	.66	.47	.19	.86	.46	.29	.53	.61	.04	.92	.74	.63
21	289.66	290.48	290.15	291.53	292.93	293.28	291.32	290.50	290.50	289.91	289.72	289.64
22	.66	.74	.53	.62	.14	.28	.25	.46	.00	.90	.77	.64
23	.66	.84	.54	.88	291.71	.12	.13	.41	.00	.89	.85	.60
24	.65	291.08	.38	292.05	.37	292.86	.14	.37	.03	.89	.86	.54
25	.65	.54	.30	.06	.18	.79	.09	.32	.03	.88	.84	.51
26	289.65	291.75	290.22	292.28	291.07	291.99	290.98	290.31	290.02	289.87	289.83	289.50
27	.65	.74	289.84	.66	.04	.63	.88	.30	.01	.86	.79	.52
28	.64	.88	.80	.66	.65	.53	.79	.29	.00	.85	.73	.58
29	.64	.42	.78	.41	292.04	.49	.77	.28	289.99	.84		.60
30	.64	290.90	.79	291.99	.13	.55	.75	.28	.99	.83		.63
31		.59		.09	291.86		.71		.99	.82		.64
Mean	289.69	290.64	289.99	290.76	292.18	293.04	291.14	290.55	290.09	289.94	289.78	289.65
Max.	289.78	291.88	290.53	292.66	294.66	294.44	291.78	290.74	290.24	290.04	289.86	289.72
Min.	289.64	289.61	289.70	289.79	291.04	291.49	290.71	290.28	289.99	289.82	289.71	289.50

WATER YEAR 1956 : Max. 294.66 m. Min. 289.50 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.80	1.40	15	3.00	82	113	69	33	13	8.20	3.20	2.10
2	2.70	1.30	13	4.00	59	204	79	32	12	8.00	3.20	2.10
3	2.70	1.30	9.40	5.00	51	206	77	33	11	7.80	3.00	2.20
4	2.60	1.20	8.40	6.00	59	199	71	33	11	7.80	2.90	2.20
5	2.60	1.10	5.40	6.00	66	183	60	31	11	8.80	2.80	2.10
6	2.60	1.20	4.40	7.00	71	182	52	28	11	8.40	2.70	2.10
7	2.50	1.40	3.80	11	79	175	50	29	10	8.40	2.60	2.10
8	2.40	2.60	6.20	11	67	216	48	33	10	8.00	2.50	2.10
9	2.30	5.60	5.00	10	55	245	44	31	10	7.60	2.40	2.10
10	2.20	18	4.00	8.00	55	242	42	30	11	6.60	2.40	2.00
11	2.10	65	3.60	7.00	51	233	37	30	11	6.20	3.00	1.90
12	2.00	58	3.00	7.00	52	214	36	32	11	6.00	2.60	1.90
13	2.00	52	2.40	6.00	76	208	36	34	11	5.60	3.00	1.80
14	2.00	49	2.10	5.00	154	178	36	34	10	6.80	3.20	1.80
15	1.80	34	2.10	5.00	224	138	47	34	11	7.00	2.70	1.60
16	1.80	22	2.00	5.00	265	137	58	34	11	7.40	2.30	1.50
17	1.80	17	2.00	10	241	144	59	32	11	7.00	2.00	1.30
18	1.70	18	2.10	13	213	153	67	31	11	6.20	1.80	1.10
19	1.70	18	10	23	170	147	73	30	11	5.80	1.40	1.00
20	1.60	18	11	32	166	146	62	28	10	5.80	1.70	1.30
21	1.60	18	10	59	133	146	62	24	9.60	5.60	1.50	1.40
22	1.60	28	20	63	90	147	59	22	9.40	5.60	1.90	1.40
23	1.60	32	20	76	68	139	54	20	9.20	4.80	4.00	1.40
24	1.50	41	15	85	53	135	54	19	9.80	4.80	4.20	0.70
25	1.50	60	13	85	45	132	52	17	9.60	4.60	3.80	0.50
26	1.50	69	11	97	41	88	47	16	9.40	4.40	3.60	0.50
27	1.50	69	3.80	117	40	70	43	16	9.00	4.20	2.90	0.60
28	1.40	76	3.00	117	65	65	39	15	8.80	4.00	2.30	0.90
29	1.40	55	2.80	103	85	63	37	14	8.40	3.80		1.00
30	1.40	34	2.90	82	89	67	37	14	8.40	3.60		1.30
31		22		87	76		34		8.20	3.40		1.40
Total	58.90	888.10	216.40	1,155	3,059	4,715	1,621	809	317.80	192.60	75.60	47.40
Mean	1.96	28.6	7.21	37.3	98.0	157	52.3	26.9	10.2	6.21	2.70	1.53
Max.	2.80	76	20	117	265	245	79	34	13	8.80	4.20	2.20
Min.	1.40	1.10	2.00	3.00	40	63	34	14	8.20	3.40	1.40	0.50
Runoff - mcm.	5.089	76.732	18.697	99.792	262.570	407.376	140.054	69.897	27.475	16.641	6.532	4.095

WATER YEAR 1956 : Max. 265 Min. 0.50 Mean 35.99 Annual Runoff 1,134.950 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 16	09.00	294.68	267				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Ping River at Pha Wing Chu, Chiang Mai (P.6A)

Location: Lat 18° – 05' – 37" N, Long 98° – 36' – 35" E, on right bank about 4 kilometers upstream from district office of Amphoe Hot, Chiang Mai.

Drainage Area: 19,233 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 250.163 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. No.1

Location: On right bank near gage site.
Elevation: +255.498 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: 1953 – 57

Rating Operation:

Period of Rating: 1953 – 57
Rated by Float: –
Rated by Current Meter: 1953 – 57

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

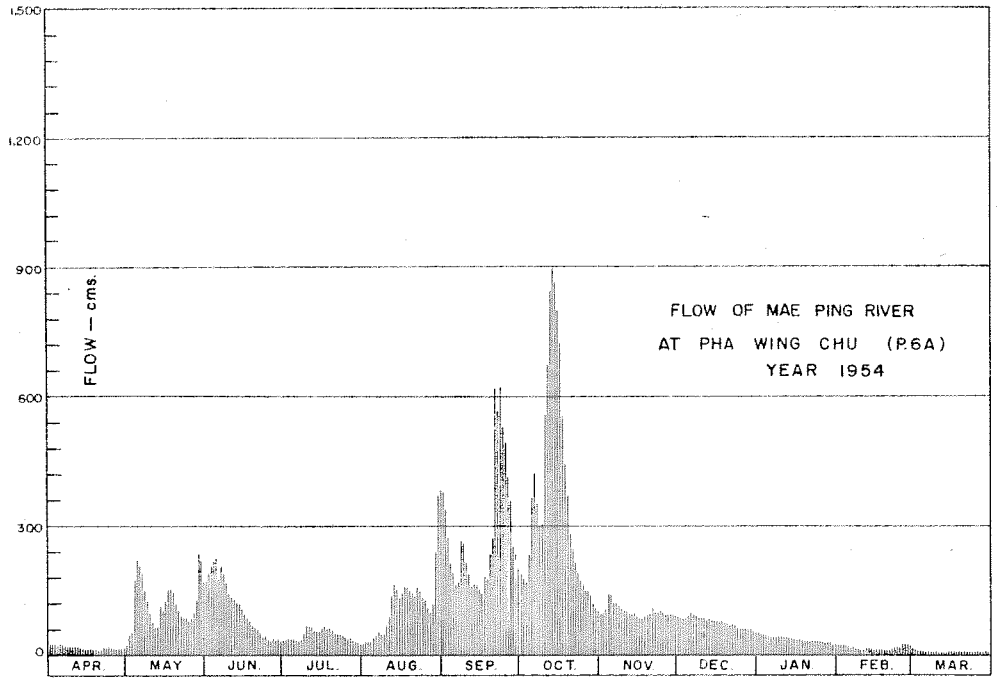
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1954. Upstream state diversions for irrigation of about 18,400 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	250.20	250.19	251.48	250.41	250.30	252.42	251.60	251.07	250.90	250.56	250.36	250.21
2	.18	.44	.61	.41	.36	.25	.55	.01	.87	.54	.36	.19
3	.15	.55	.67	.41	.33	.04	.51	.12	.87	.52	.34	.15
4	.14	251.46	.79	.41	.34	251.80	.80	.31	.87	.50	.29	.13
5	.14	.77	.84	.41	.44	.61	252.39	.31	.92	.48	.25	.11
6	250.13	251.64	251.79	250.40	250.45	251.43	252.61	251.21	250.93	250.48	250.24	250.09
7	.11	.56	.81	.38	.53	.44	.28	.20	.92	.48	.24	.09
8	.10	.33	.61	.40	.48	.91	.08	.14	.90	.46	.23	.08
9	.09	.12	.50	.51	.50	.91	.16	.09	.86	.48	.21	.07
10	.07	250.94	.34	.72	.66	.71	253.08	.05	.83	.49	.20	.07
11	250.13	250.78	251.24	250.72	250.88	251.56	253.41	251.04	250.81	250.48	250.20	250.06
12	.09	.69	.18	.66	251.26	.45	254.04	.02	.79	.46	.21	.05
13	.06	.68	.17	.60	.41	.41	.13	250.99	.79	.44	.21	.04
14	.04	251.04	.14	.59	.34	.44	.08	.96	.78	.41	.21	.04
15	.02	.00	.06	.58	.23	.37	253.92	.94	.77	.40	.19	.08
16	250.01	251.18	250.97	250.61	251.28	251.34	253.64	250.93	250.78	250.39	250.19	250.08
17	.03	.34	.86	.68	.38	.48	.16	.92	.78	.39	.18	.08
18	.01	.30	.80	.61	.41	.48	252.63	.94	.76	.38	.18	.09
19	.00	.26	.77	.64	.34	.75	.28	.96	.75	.38	.17	.08
20	249.99	.10	.70	.56	.24	252.13	.06	251.01	.74	.38	.17	.08
21	250.03	250.96	250.59	250.52	251.28	253.24	251.88	251.06	250.73	250.38	250.18	250.08
22	.10	.89	.54	.50	.38	.64	.75	.09	.72	.38	.21	.07
23	.12	.83	.49	.48	.37	.32	.63	.06	.71	.38	.24	.06
24	.11	.77	.46	.46	.28	.04	.54	.02	.69	.38	.24	.05
25	.08	.74	.42	.41	.18	252.91	.49	.00	.67	.38	.24	.05
26	250.06	250.79	250.39	250.37	251.09	252.65	251.39	250.97	250.66	250.37	250.26	250.05
27	.05	.91	.44	.37	.02	.33	.39	.95	.65	.37	.25	.06
28	.05	251.19	.42	.36	.14	.04	.31	.94	.64	.37	.23	.06
29	.04	.83	.40	.34	.80	251.78	.20	.93	.62	.37		.06
30	.06	.68	.38	.32	252.40	.61	.14	.91	.58	.36		.07
31		.47		.29	.44		.11		.56	.36		.08
Mean	250.08	251.08	251.03	250.49	251.08	252.02	252.17	251.04	250.77	250.42	250.23	250.08
Max.	250.20	251.83	251.84	250.72	252.44	253.64	254.13	251.31	250.93	250.56	250.36	250.21
Min.	249.99	250.19	250.38	250.29	250.30	251.34	251.11	250.91	250.56	250.36	250.17	250.04

WATER YEAR 1954 : Max. 254.13 m. Min. 250.04 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	29	25	171	36	30	380	191	97	90	55	29	19
2	27	49	192	37	34	339	176	101	88	50	29	16
3	24	54	219	38	32	288	172	109	88	49	27	12
4	23	168	221	37	33	217	238	143	88	49	25	13
5	25	221	225	37	43	196	354	140	95	45	24	12
6	22	206	206	36	46	166	421	123	99	45	18	10
7	20	185	215	34	55	173	333	123	95	45	20	10
8	21	143	187	37	50	268	283	118	90	43	18	9.50
9	21	126	172	50	49	262	310	110	89	45	17	9.00
10	18	95	140	71	68	217	547	107	88	45	15	9.00
11	21	75	129	70	87	188	658	106	88	45	16	8.00
12	19	64	125	66	138	161	848	100	83	43	17	8.00
13	17	67	122	57	166	167	900	97	87	41	18	7.65
14	15	114	120	55	152	164	848	99	82	40	18	8.00
15	14	104	106	57	135	156	788	89	81	39	14	10
16	14	130	94	61	143	147	708	88	81	37	14	11
17	14	152	85	67	159	181	468	89	79	37	15	10
18	13	154	75	62	159	178	413	91	79	36	15	10
19	12	149	65	63	152	234	328	95	77	35	14	10
20	11	118	62	59	147	321	266	99	75	35	14	10
21	16	102	56	49	140	618	240	110	71	35	15	9.50
22	18	94	49	48	159	576	213	109	74	35	18	9.00
23	18	85	41	48	152	621	186	109	68	36	23	8.00
24	19	87	46	44	138	533	172	105	66	36	23	8.00
25	17	79	35	42	127	491	166	102	64	35	22	8.50
26	17	85	32	38	112	428	150	96	63	32	30	8.50
27	16	100	37	41	102	334	150	94	63	32	29	8.50
28	15	137	36	36	120	264	141	97	62	32	28	8.50
29	15	238	37	34	238	225	121	96	61	32		8.50
30	17	212	34	32	370	195	114	93	58	29		8.50
31		171		28	383		105		54	29		9.00
Total	548	3,787	3,334	1,470	3,919	8,687	11,008	3,135	2,426	1,222	565	306.65
Mean	18.3	122	111	47.4	126	289	355	104	78.2	39.4	20.2	9.89
Max.	29	238	225	71	383	618	900	143	99	55	29	19
Min.	11	25	34	28	30	147	105	88	54	29	14	7.65
Runoff - mcm.	47.347	327.197	288.058	127.008	338.602	750.557	951.091	270.864	209.606	105.581	48.816	26.494

WATER YEAR 1954 : Max. 900 Min. 7.65 Mean 111 Annual Runoff 3,491.221 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	19.00	254.23	927				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Ping River at Pha Wing Chu, Chiang Mai (P.6A)

Location: Lat 18°- 05' - 37" N, Long 98°- 36' - 53" E, on right bank about 4 kilometers upstream from the district office of Amphoe Hot, Chiang Mai.

Drainage Area: 19,233 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +250.163 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: On right bank near gage site.
Elevation: +255.498 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: 1953 - 1958

Rating Operation:

Period of Rating: 1953 - 58
Rated by Float: -
Rated by Current Meter: 1953 - 58

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

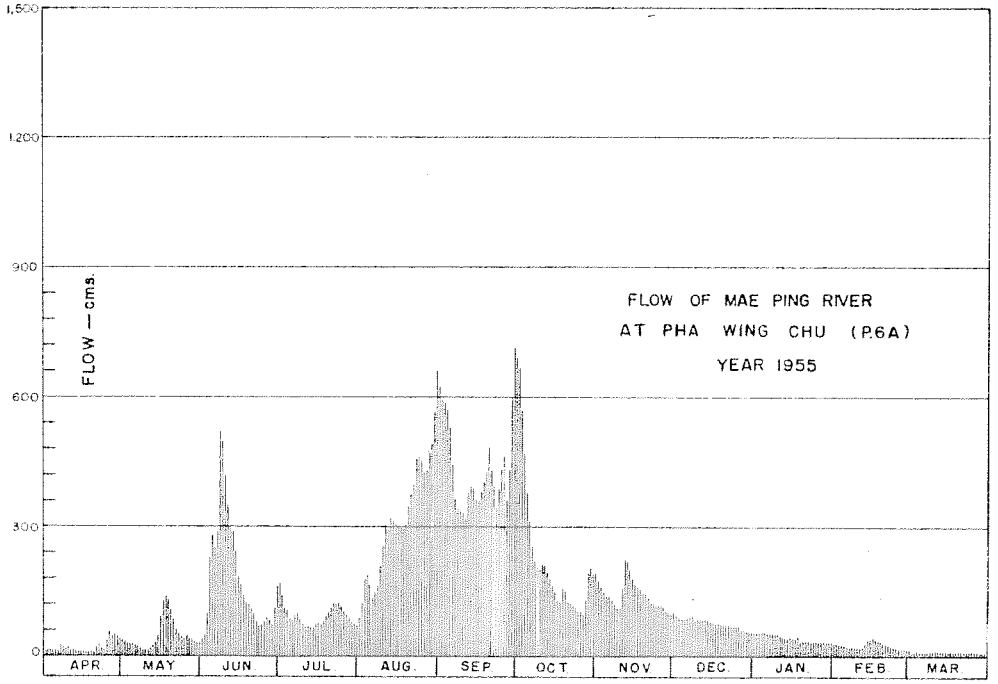
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream state diversions for irrigation of about 18,400 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	250.10	250.46	250.41	251.44	250.94	253.27	253.54	251.66	251.08	250.67	250.38	250.14
2	.18	.41	.57	.25	251.21	.22	.48	.54	.02	.65	.36	.11
3	.16	.35	251.08	.14	.54	.19	.05	.45	250.99	.65	.34	.09
4	.14	.37	.80	.11	.59	.16	252.71	.39	.99	.64	.31	.09
5	.13	.34	.94	250.97	.38	.00	.36	.34	.99	.63	.28	.09
6	250.12	250.27	251.80	250.95	251.27	252.65	252.19	251.29	250.98	250.61	250.28	250.09
7	.30	.25	252.16	251.03	.32	.47	251.98	.24	.98	.61	.26	.08
8	.30	.20	253.21	.04	.43	.36	.81	.16	.98	.59	.26	.08
9	.21	.17	252.76	250.96	.66	.18	.74	.16	.97	.57	.25	.08
10	.26	.12	.41	.86	.91	.19	.75	.16	.97	.56	.25	.08
11	250.13	250.13	252.23	250.79	252.11	252.24	251.76	251.22	250.97	250.55	250.25	250.08
12	.11	.20	.02	.80	.10	.37	.77	.72	.96	.55	.26	.08
13	.10	.35	251.91	.80	.22	.49	.67	.73	.96	.54	.39	.07
14	.09	.43	.66	.76	.19	.49	.55	.65	.95	.53	.51	.07
15	.07	.63	.50	.81	.11	.47	.47	.54	.93	.53	.52	.07
16	250.06	251.05	251.42	250.83	252.18	252.46	251.40	251.48	250.92	250.51	250.54	250.07
17	.04	.19	.33	.81	.18	.56	.29	.44	.90	.50	.48	.07
18	.03	.27	.24	.90	.18	.63	.27	.40	.89	.49	.44	.07
19	.02	.16	.21	.98	.24	.68	.43	.35	.87	.47	.40	.06
20	.02	250.97	.11	251.05	.39	.89	.36	.33	.86	.46	.36	.07
21	250.32	250.78	251.00	251.13	252.56	252.59	251.27	251.29	250.85	250.44	250.34	250.06
22	.32	.64	250.93	.18	.66	.62	.22	.24	.84	.46	.32	.05
23	.18	.55	.86	.19	.75	.42	.21	.20	.83	.46	.27	.05
24	.19	.52	.86	.20	.81	.56	.18	.20	.81	.45	.25	.05
25	.45	.49	.89	.15	.75	.71	.13	.19	.80	.44	.23	.04
26	250.65	250.50	250.96	251.09	252.67	252.42	251.11	251.17	250.76	250.44	250.20	250.03
27	.51	.44	.92	.02	.70	.35	.16	.15	.74	.43	.19	.03
28	.63	.39	.86	250.96	.88	.74	.37	.11	.74	.43	.18	.02
29	.53	.32	251.08	.86	.95	253.33	.62	.11	.72	.42	.17	.02
30	.47	.30	.39	.84	253.08	.62	.67	.10	.71	.41		.02
31		.33		.84	.43		.62		.71	.40		.02
Mean	250.23	250.50	251.45	250.99	252.17	252.68	251.75	251.33	250.89	250.52	250.32	250.06
Max.	250.65	251.27	253.21	251.44	253.43	253.62	253.54	251.73	251.08	250.67	250.54	250.14
Min.	250.02	250.12	250.41	250.76	250.94	252.18	251.11	251.10	250.71	250.40	250.17	250.02

WATER YEAR 1955 : Max. 253.62 m. Min. 250.02 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	39	40	172	94	597	666	194	98	54	31	13
2	15	34	53	133	130	591	665	172	94	54	29	11
3	14	29	117	109	181	588	531	158	89	56	29	11
4	13	30	234	105	191	567	436	148	88	55	27	11
5	12	29	277	86	193	510	348	140	87	55	26	11
6	11	25	234	84	134	394	275	137	90	52	24	11
7	26	24	296	96	150	345	246	126	90	53	21	10
8	22	17	519	97	167	338	215	117	92	52	22	10
9	17	16	480	85	211	304	204	111	83	51	21	10
10	21	13	376	74	260	304	200	110	86	50	20	10
11	13	14	324	67	304	313	211	114	86	48	20	10
12	12	19	284	68	295	376	209	224	84	45	21	10
13	11	30	258	67	319	391	189	222	84	42	29	10
14	11	39	202	64	313	391	170	200	83	42	37	10
15	10	57	176	74	304	357	156	178	80	43	39	10
16	10	113	159	76	302	360	144	165	79	42	44	10
17	9.00	130	137	74	297	389	124	159	76	42	39	10
18	7.80	140	123	84	295	407	123	152	76	47	36	10
19	7.80	120	118	94	310	428	156	148	74	35	35	10
20	7.80	94	109	105	362	486	148	142	73	35	30	10
21	29	74	88	116	379	391	123	135	72	34	28	9.40
22	27	60	78	121	402	396	121	123	72	35	26	9.00
23	16	50	68	121	456	343	119	120	70	35	22	9.00
24	18	45	75	121	464	389	113	117	69	34	19	9.00
25	38	41	80	112	445	436	103	117	70	34	18	8.60
26	56	46	99	102	417	362	103	117	67	36	17	8.20
27	43	41	85	93	422	340	98	118	60	34	17	8.20
28	55	37	73	86	475	417	132	102	60	34	16	7.80
29	47	31	98	78	495	616	191	103	58	33	15	7.80
30	41	31	159	75	567	713	204	97	56	33		7.80
31		33		74	659		187		56	32		7.80
Total	631.40	1,501	5,408	2,911	9,955	12,839	6,930	4,264	2,402	1,327	758	360.06
Mean	21.0	48.4	180	93.9	321	428	223	142	77.5	42.8	26.1	9.70
Max.	56	140	519	172	659	713	666	224	98	56	44	15
Min.	7.80	13	40	64	94	304	98	97	56	32	15	7.80
Runoff - MCM.	54.553	129.686	467.251	251.510	859.939	1,109.290	598.752	368.410	207.533	114.653	65.491	25.972

WATER YEAR 1955 : Max. 713 Min. 7.80 Mean 135 Annual Runoff 4,253.040 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30	23.00	253.65	723				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Ping River at Pha Wing Chu, Chiang Mai (P.6A)

Location: Lat 18°- 05' - 37" N, Long 98°- 36' - 35" E, on right bank about 4 kilometers upstream from the district office of Amphoe Hot, Chiang Mai.

Drainage Area: 19,233 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +250.163 m. (M.S.L.)

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

Location: On left bank near gage site.
Elevation: +255.498 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: 1953 - 1958

Rating Operation:

Period of Rating: 1953 - 1958
Rated by Float: -
Rated by Current Meter: 1953 - 1958

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

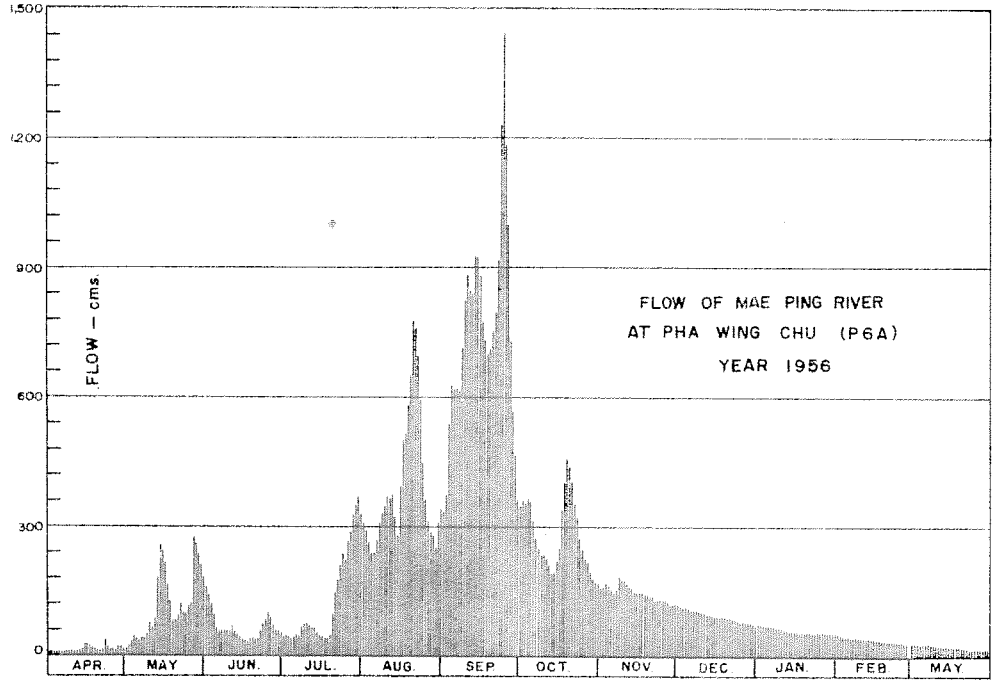
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 18,400 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	250.02	250.17	251.60	250.64	252.41	252.48	252.51	251.56	251.24	250.86	250.58	250.32
2	.01	.34	.50	.66	.31	.66	.58	.53	.22	.84	.56	.31
3	.01	.50	.33	.64	.15	253.17	.50	.51	.22	.83	.54	.31
4	.01	.67	.16	.64	.00	.51	.54	.51	.20	.82	.53	.30
5	.01	.64	250.87	.65	.01	.49	.42	.48	.20	.81	.51	.30
6	250.01	250.58	250.84	250.68	252.18	253.55	252.28	251.45	251.19	250.80	250.50	250.30
7	.00	.62	.83	.76	.40	.50	.13	.46	.18	.79	.50	.29
8	.03	.65	.80	.87	.53	.73	.03	.57	.15	.78	.49	.29
9	.04	.77	.79	.92	.59	254.08	251.98	.56	.14	.77	.49	.29
10	.01	251.00	.79	.92	.66	.17	252.00	.53	.13	.75	.49	.28
11	250.00	250.86	250.86	250.88	252.64	254.12	251.94	251.53	251.12	250.73	250.48	250.27
12	.00	251.07	.75	.84	.60	.13	.82	.49	.11	.73	.48	.27
13	.11	.67	.69	.84	.35	.28	.77	.43	.09	.71	.48	.26
14	.17	252.11	.63	.72	.26	.30	.78	.42	.08	.70	.47	.25
15	.43	.04	.57	.69	.73	.16	.92	.43	.08	.70	.46	.24
16	250.44	251.88	250.53	250.65	253.19	253.91	252.10	251.44	251.07	250.70	250.45	250.23
17	.30	.56	.52	.61	.25	.87	.50	.44	.06	.69	.44	.23
18	.26	.29	.58	.66	.40	.84	.80	.41	.05	.69	.43	.22
19	.22	.02	.61	.78	.65	.86	.88	.40	.04	.69	.42	.21
20	.13	.06	.58	251.17	.93	.90	.76	.38	.03	.68	.41	.20
21	250.10	251.14	250.62	251.55	253.90	254.00	252.63	251.38	251.02	250.68	250.40	250.19
22	.22	.31	.77	.70	.68	.39	.49	.36	.01	.68	.39	.19
23	.45	.20	.90	.91	.22	255.12	.31	.35	250.99	.69	.38	.19
24	.22	.16	251.01	252.03	252.82	.16	.06	.33	.98	.69	.37	.19
25	.20	.32	.11	251.99	.52	254.62	251.98	.32	.96	.68	.36	.18
26	250.19	251.36	251.03	252.14	252.35	254.09	251.90	251.31	250.96	250.67	250.35	250.18
27	.15	252.19	250.88	.23	.22	253.62	.80	.30	.94	.65	.34	.18
28	.24	.18	.78	.48	.24	.18	.71	.29	.93	.65	.33	.17
29	.35	.06	.72	.55	.15	252.83	.66	.27	.92	.64		.17
30	.24	251.92	.68	.56	.40	.57	.62	.26	.90	.63		.17
31		.73		.52	.56		.60		.88	.61		.17
Mean	250.16	251.23	250.84	251.25	252.69	253.81	252.16	251.42	251.07	250.72	250.45	250.24
Max.	250.45	252.19	251.60	252.56	253.93	255.16	252.88	251.57	251.24	250.86	250.58	250.32
Min.	250.00	250.17	250.52	250.61	252.00	252.48	251.60	251.26	250.88	250.61	250.33	250.17

WATER YEAR 1956 : Max. 255.16 m. Min. 250.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.00	12	155	42	304	335	344	157	117	74	50	28
2	6.80	20	139	44	289	376	360	161	112	70	47	26
3	6.80	31	115	43	260	550	349	168	112	69	44	26
4	6.80	44	89	40	239	627	362	161	111	68	45	25
5	6.80	40	58	43	241	614	353	150	109	67	44	26
6	6.80	36	56	48	264	617	299	145	103	67	42	26
7	6.40	38	57	55	310	589	260	157	105	66	42	26
8	7.40	42	57	70	331	708	243	182	102	66	40	25
9	8.20	52	56	75	351	820	231	177	102	65	40	25
10	6.80	78	57	75	369	878	235	173	100	63	40	24
11	6.60	63	68	68	367	845	225	166	97	60	40	23
12	6.80	87	54	63	376	837	202	160	95	59	39	23
13	11	177	48	66	308	925	192	150	94	56	39	22
14	13	258	43	50	282	921	194	149	92	55	37	21
15	28	244	36	47	385	866	223	145	92	56	37	21
16	28	215	33	43	499	752	260	147	91	55	36	20
17	20	160	31	39	521	722	349	147	91	53	35	21
18	17	118	38	43	580	701	426	142	91	53	34	20
19	15	82	40	54	666	711	456	141	89	53	33	20
20	12	84	37	105	775	752	436	138	88	53	33	18
21	10	92	40	152	756	791	390	135	87	52	32	17
22	15	120	60	180	680	954	355	129	85	51	32	17
23	37	102	75	217	538	1,224	315	129	83	52	32	17
24	19	99	87	239	411	1,440	260	129	82	53	31	17
25	15	117	102	223	342	1,099	250	130	78	52	31	16
26	15	123	88	274	306	870	219	130	78	52	30	16
27	12	274	69	289	280	677	213	123	75	52	29	16
28	20	262	58	333	280	535	187	117	76	52	28	15
29	23	233	57	358	252	424	178	118	76	52		15
30	18	213	53	369	304	303	171	117	71	52		15
31		180		328	340		168		68	50		15
Total	411.20	3,696	1,956	4,075	12,206	22,493	8,705	4,373	2,852	1,798	1,042	642
Mean	13.7	119	65.2	131	394	750	281	146	92.0	58.0	37.2	20.7
Max.	37	274	155	369	775	1,440	456	182	117	74	50	28
Min.	6.40	12	31	39	239	335	168	117	68	50	28	15
Runoff - mcm.	35.528	319.334	168.998	352.080	1,054.598	1,943.395	752.112	377.827	246.413	155.347	90.029	55.469

WATER YEAR 1956 : Max. 1,440 Min. 6.40 Mean 176 Annual Runoff 5,551.114 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 24	24.00	255.38	1,572				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Ping River at Muang Kamphaeng Phet (P.7)

Location: Lat 16°- 28' - 15" N, Long 99°- 31' - 51" E, on left bank 1.5 kilometers downstream from provincial office of Changwat Kamphaeng Phet near Thesa road, Amphoe Muang, Kamphaeng Phet.

Drainage Area: 42,704 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +71.15 m. (M.S.L.), Datum of 1954

Bench Mark: B.M. - H.S.

Location: On left bank near the mill.
Elevation: +77.007 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 - 1960

Rating Operation:

Period of Rating: 1954 - 1960
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: Overbank flow was observed at elev. +75.785 m. (M.S.L.) but not included for flow computation.

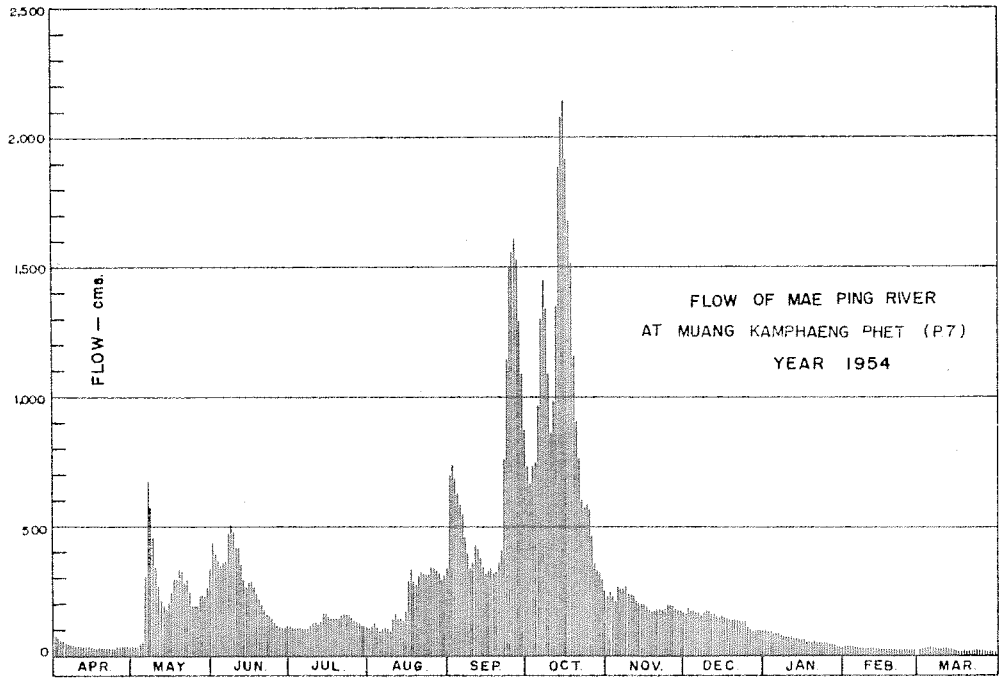
General Description: Records fair. Stage-discharge relation used is defined by discharge measurements made during 1954. Natural flow of stream affected by diversions above station for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

Remarks: * Mean daily gage - height was estimated by Regression line from P_7- P_{15}

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	72.60	72.20	73.81	72.60	72.62	74.23	74.32	73.35	73.03	72.73	72.41	* 72.24
2	.56	.24	.63	.60	.73	.34	.25	.31	.03	.71	* .40	* .25
3	.51	.29	.56	.58	.75	.24	.39	.28	.02	.70	* .38	* .25
4	.47	.36	.50	.56	.67	.14	.49	.25	.00	.68	* .36	* .27
5	.44	.51	.60	.58	.62	.08	.83	.32	72.99	.67	* .35	* .27
6	72.41	73.43	73.60	72.59	72.71	74.02	75.13	73.28	72.99	72.65	72.35	* 72.24
7	.36	74.27	.85	.59	.72	73.78	.17	.32	.99	.64	* .34	* .22
8	.34	73.95	.89	.60	.70	.62	.11	.33	73.00	.63	* .34	* .20
9	.32	.75	.85	.72	.80	.47	74.80	.31	.01	.60	* .33	* .19
10	.29	.55	.72	.73	72.99	.44	.61	.29	.01	.60	* .33	* .18
11	72.27	73.37	73.59	72.76	72.97	73.68	74.75	73.24	73.00	72.60	*72.32	* 72.16
12	.26	.21	.51	.68	.93	.66	75.36	.20	72.98	.58	* .30	* .12
13	.24	.10	.37	.83	.88	.52	.65	.15	.96	.57	* .30	* .11
14	.24	.03	.27	.86	.86	.42	.94	.12	.94	.57	* .28	* .10
15	.23	.14	.33	.86	73.07	.35	.98	.09	.92	.56	* .28	* .10
16	72.22	73.35	73.34	72.83	73.49	73.36	75.79	73.09	72.92	72.56	72.28	72.10
17	.22	.42	.29	.83	.54	.41	.54	.04	.91	.54	* .27	* .09
18	.21	.41	.19	.86	.39	.34	.25	.04	.89	.53	* .27	* .08
19	.20	.52	.06	.83	.40	.34	74.86	.03	.89	.52	* .27	* .07
20	.17	.48	72.97	.84	.44	.48	.55	.02	.88	.51	* .26	* .08
21	72.20	73.34	72.88	72.85	73.46	73.76	74.31	73.01	72.87	72.49	*72.26	72.09
22	.19	.27	.83	.87	.40	74.44	.13	.02	.86	.48	* .26	* .10
23	.19	.10	.77	.87	.44	75.16	73.98	.05	.85	.48	* .25	* .10
24	.20	.03	.73	.84	.34	.59	.87	.07	.84	.47	* .25	* .09
25	.23	.02	.69	.80	.39	.73	.77	.10	.82	.47	* .24	* .09
26	72.23	73.01	72.67	72.76	73.42	75.81	73.68	73.09	72.81	72.46	72.24	* 72.08
27	.23	.14	.67	.73	.34	.59	.61	.08	.80	.45	* .23	* .08
28	.26	.24	.63	.71	.29	.22	.57	.07	.78	.44	* .24	* .10
29	.27	.17	.59	.68	.27	74.80	.50	.05	.77	.44		* .11
30	.25	.37	.60	.67	.28	.49	.45	.04	.76	.43		* .10
31		.58		.64	.43		.40		.75	.42		* .09
Mean	72.29	73.18	73.23	72.73	73.11	74.15	74.58	73.15	72.91	72.55	72.30	72.14
Max.	72.60	74.27	73.89	72.87	73.54	75.81	75.98	73.35	73.03	72.73	72.41	72.27
Min.	72.17	72.20	72.59	72.56	72.62	73.34	73.40	73.04	72.75	72.42	72.23	72.07

WATER YEAR 1954 : Max. 75.98 m. Min. 72.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31,1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	73	32	439	110	108	697	724	225	163	97	49	32
2	61	32	390	101	117	736	659	248	182	94	48	33
3	54	38	363	103	127	670	730	225	174	94	46	33
4	51	47	341	106	105	610	753	219	171	82	44	35
5	47	59	363	106	90	585	967	268	168	84	43	35
6	42	305	370	101	101	542	1,298	255	168	86	43	32
7	42	675	465	101	110	443	1,446	261	157	78	42	30
8	39	505	505	103	103	398	1,266	268	168	76	42	28
9	31	410	482	115	92	333	1,033	238	174	74	41	27
10	36	326	410	127	144	363	811	238	171	72	41	26
11	36	258	418	129	163	427	1,000	219	157	72	40	24
12	31	200	341	122	149	414	1,446	209	163	68	38	21
13	31	191	278	139	147	370	1,889	203	152	66	38	20
14	32	174	265	166	134	344	2,060	200	149	64	36	19
15	25	209	282	166	176	309	2,140	200	155	64	36	19
16	25	248	292	147	288	333	1,795	188	144	64	36	19
17	27	299	268	142	337	337	1,672	173	142	63	35	18
18	29	299	238	149	288	319	1,410	171	136	63	35	17
19	27	330	219	147	278	323	1,122	171	139	63	35	17
20	26	323	191	144	312	367	884	177	139	64	34	17
21	29	278	174	152	323	460	741	179	136	60	34	18
22	27	292	157	160	319	793	600	177	131	58	34	19
23	27	235	152	160	312	1,156	570	179	131	58	33	19
24	27	185	136	152	316	1,491	487	200	131	57	33	18
25	35	194	129	141	341	1,554	452	191	108	57	32	18
26	35	191	115	131	337	1,610	398	194	99	56	32	17
27	35	235	112	127	326	1,509	359	179	99	54	31	17
28	39	232	106	124	316	1,199	323	179	97	53	32	19
29	36	232	110	115	292	961	326	171	99	53		20
30	32	275	115	117	312	782	288	163	99	52		20
31		367		101	348		245		97	51		18
Total	1,087	7,676	8,226	4,004	6,911	20,435	29,894	6,168	4,399	2,097	1,063	705
Mean	36.2	248	274	129	223	681	964	206	142	67.6	38.0	22.7
Max.	73	675	505	166	348	1,610	2,140	268	182	97	45	32
Min.	25	32	106	101	90	309	245	163	97	51	31	17
Runoff - mcm.	93.917	663.206	710.726	345.946	597.110	1,765.584	2,582.842	532.915	380.074	181.181	91.843	60.912

WATER YEAR 1954 : Max. 2,140 Min. 11 Mean 253 Annual Runoff 7,978.694 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15	06.00	76.00	2,162				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Ping River at Muang Kamphaeng Phet (P.7)

Location: Lat 16°- 28' - 15" N, Long 99°- 31' - 51" E, on left bank 1.5 kilometers downstream from provincial office of Changwat Kamphaeng Phet near Thesa road, Amphoe Muang, Kamphaeng Phet.

Drainage Area: 42,704 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +71.15 m. (M.S.L.) Datum of 1954

Bench Mark: B.M. - H.S.

Location: On left bank near the mill.

Elevation: +77.007 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 - 60

Rating Operation:

Period of Rating: 1954 - 60

Rated by Float: -

Rated by Current Meter: 1954 - 60

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

Overbank Flow Conditions: No overbank flow.

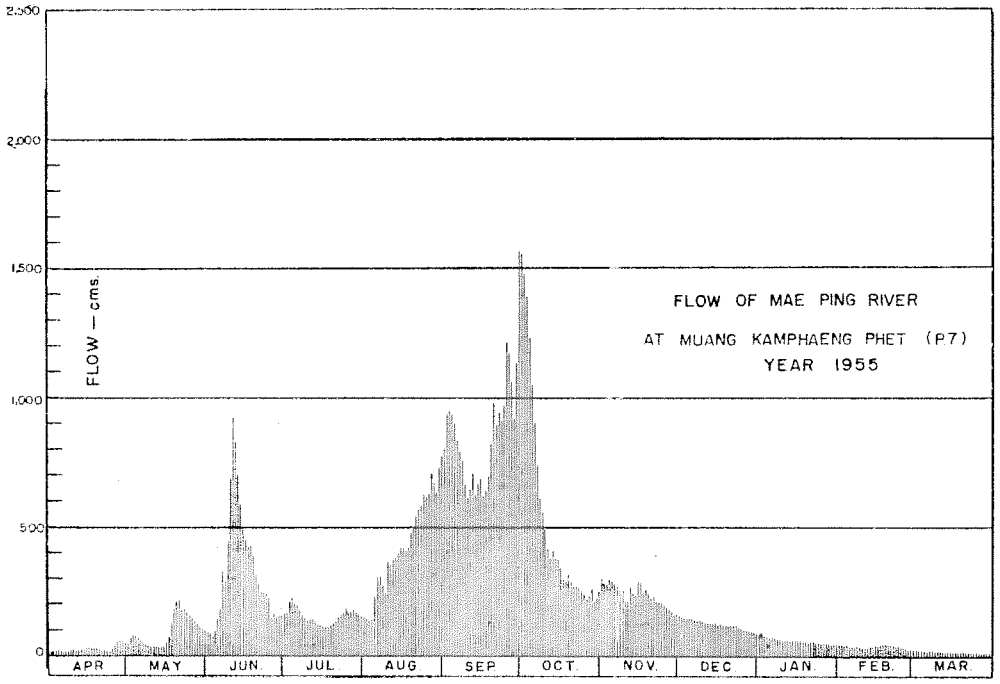
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. Natural flow of stream affected by diversions above station for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

Remarks: * Mean daily gage - height used estimated by correlation between P.2 + P.7

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	* 72.08	72.37	72.63	72.99	* 72.93	74.62	75.64	73.37	72.90	72.57	* 72.29	72.14
2	* .07	.42	.60	73.01	* .92	.85	.57	.40	.88	.56	* .29	.13
3	* .07	.47	.56	.16	.88	.88	.43	.38	.86	.55	* .28	.11
4	* .07	.43	.69	.24	.90	.87	.19	.40	.85	.53	* .27	.09
5	* .07	.34	.96	.11	73.25	.77	74.89	.35	.85	.52	* .25	.08
6	* 72.08	72.28	73.06	73.10	73.47	74.69	74.62	73.28	72.84	72.51	* 72.24	72.07
7	* .08	.22	.55	72.99	.48	.72	.30	.30	.83	.50	* .23	.06
8	* .08	.15	* .42	.94	.35	.55	.10	.31	.82	.48	* .22	.05
9	* .10	.12	* .60	.89	.28	.45	73.96	.23	.81	.47	* .20	.03
10	* .13	.11	*74.36	.88	.65	.36	.82	.15	.80	.45	* .19	.01
11	* 72.11	72.11	*74.80	72.89	* 73.62	74.38	73.73	73.20	72.78	72.45	* 72.16	72.00
12	* .11	.11	* .60	.89	* .69	.38	.66	.35	.77	.44	* .19	71.99
13	* .10	.11	* .38	.86	* .71	.43	.62	.27	.76	.44	* .22	.99
14	* .14	.11	* .14	.79	* .75	.47	.59	.29	.75	.44	* .22	.98
15	* .17	.14	*73.95	.78	* .80	.49	.56	.51	.75	.44	* .27	.97
16	* 72.19	72.29	73.86	72.76	* 73.80	74.47	73.48	73.53	72.74	72.43	* 72.29	71.97
17	* .19	.42	.80	.76	* .76	.60	.41	.46	.73	.41	* .29	.97
18	* .19	.76	.81	.76	* .80	.62	.35	.40	.72	.40	* .30	.97
19	* .16	73.01	.72	.80	* 73.96	.70	.38	.34	.71	.39	* .30	.96
20	* .10	.09	.50	.84	74.01	.91	.30	.30	.70	.39	* .31	.95
21	* 72.10	73.11	73.38	72.86	74.10	74.72	73.26	73.27	72.69	72.38	* 72.31	71.95
22	* .09	72.94	.29	.95	.19	.83	.26	.25	.68	.38	* .28	.95
23	* .08	.98	.29	.97	.18	.74	.23	.21	.67	.36	* .24	.94
24	* .07	.93	.29	.99	.27	.96	.18	.17	.66	.36	* .23	.94
25	* .19	.89	.20	73.06	.25	75.26	.10	.11	.65	.35	* .20	.93
26	* 72.33	72.86	73.06	* 72.99	74.28	75.17	73.04	73.03	72.64	72.33	* 72.18	71.92
27	* .39	.82	72.98	* 73.02	.43	74.96	.00	72.99	.63	.32	* .16	.90
28	* .43	.77	.92	* .04	.34	.76	72.98	.97	.62	.32	.15	.92
29	* .41	.71	.95	* .01	.29	75.17	.97	.95	.61	.31	* .14	.90
30	* .35	.69	.96	* 72.98	.48	.53	73.06	.93	.60	.31		.90
31		.69		* .96	.56		.21		.59	.30		.90
Mean	72.16	72.53	73.44	72.94	73.79	74.68	72.76	73.26	72.74	72.42	72.25	71.99
Max.	72.43	73.11	74.80	73.24	74.56	75.53	75.64	73.40	72.90	72.57	72.31	72.14
Min.	72.07	72.11	72.56	72.76	72.88	74.36	72.97	72.93	72.59	72.30	72.14	71.90

WATER YEAR 1955 : Max. 75.64 m. Min. 71.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	50	89	165	150	801	1,550	295	148	79	40	24
2	19	70	84	170	148	954	1,444	279	146	77	40	23
3	19	80	77	208	139	947	1,380	279	143	75	39	22
4	19	75	101	230	143	934	1,206	295	143	72	37	20
5	19	63	157	195	233	896	1,004	289	141	70	35	19
6	19	56	182	192	302	818	878	276	141	69	34	19
7	19	50	329	165	305	789	686	270	132	67	33	18
8	19	41	286	153	264	755	565	258	134	64	32	17
9	21	36	346	141	242	660	552	252	132	63	30	16
10	23	35	670	139	364	606	448	200	130	60	29	15
11	22	35	921	141	353	655	408	216	126	60	26	14
12	22	34	801	141	378	701	378	264	124	59	29	13
13	21	34	681	134	388	620	408	236	122	59	32	13
14	24	34	565	120	400	665	371	233	122	59	32	13
15	27	36	480	118	420	686	371	283	124	59	37	12
16	29	55	444	114	420	610	336	283	118	57	40	12
17	29	93	420	114	404	686	292	236	120	55	40	12
18	29	137	424	114	420	701	286	252	116	53	41	12
19	29	197	389	122	484	836	315	233	116	52	41	12
20	21	216	312	130	507	979	279	219	112	52	42	11
21	21	219	275	134	547	872	264	227	108	51	42	11
22	20	172	245	155	568	940	270	208	108	51	39	11
23	19	180	245	160	583	903	264	205	108	48	34	10
24	19	165	245	165	625	985	245	202	102	48	33	10
25	29	153	219	182	615	1,211	233	195	101	47	30	10
26	45	145	143	165	650	1,155	213	182	99	45	28	9.50
27	52	132	162	172	707	1,011	230	177	97	43	26	8.50
28	57	120	148	177	660	928	238	167	93	43	25	9.50
29	55	108	155	170	635	1,134	205	155	91	42	24	8.50
30	47	101	157	162	733	1,568	227	160	89	42		8.50
31		99		157	778		261		89	41		8.50
Total	810	2,997	9,750	4,805	13,563	25,896	15,827	7,026	3,675	1,762	990	422.00
Mean	27.0	96.7	325	155	437	865	510	234	118	56.8	34.1	13.6
Max.	57	219	921	230	778	1,568	1,550	295	148	79	42	24
Min.	19	34	77	114	139	606	205	155	89	41	24	8.50
Runoff - mcm.	69.984	258.941	842.400	415.152	1,171.843	2,237.414	1,367.453	607.046	317.520	152.237	85.536	36.461

WATER YEAR 1955 : Max. 1,568 Min. 8.50 Mean 239 Annual Runoff 7,561.987 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.30	12.00	75.64	1,658				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Ping River at Muang Kamphaeng Phet (P.7)

Location: Lat 16° - 28' - 15" N, Long 99° - 31' - 51" E, on left bank 1.5 kilometers downstream from provincial office of Changwat Kamphaeng Phet.

Drainage Area: 42,704 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +71.15 m. (M.S.L.), Datum of 1954

Bench Mark: B.M. - H.S.

Location: On left bank near the mill.
Elevation: +77.007 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 - 60

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.

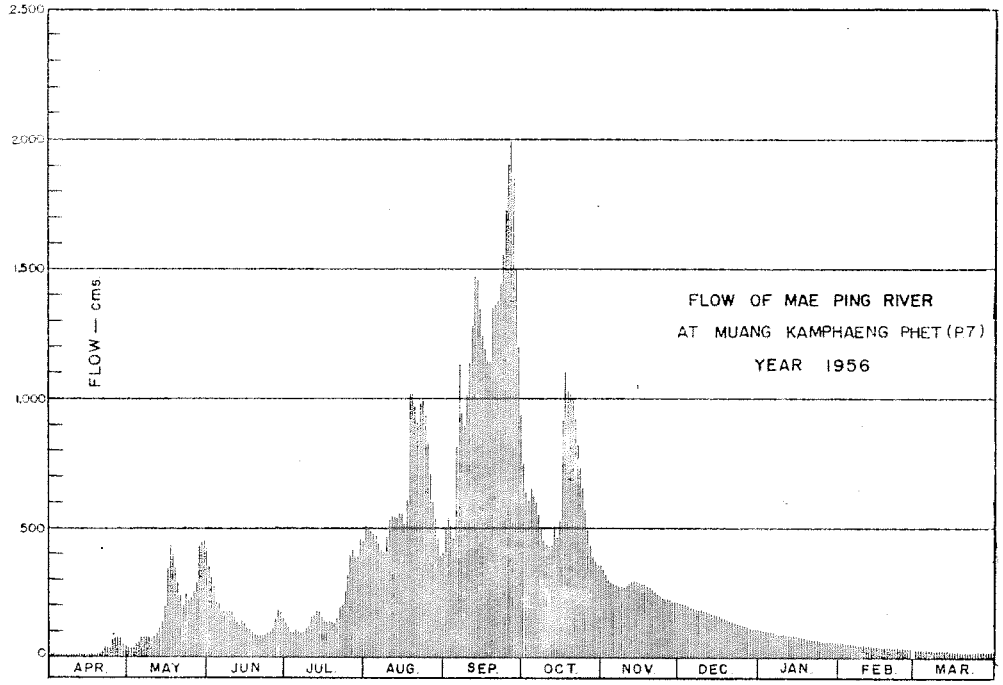
Overbank Flow Conditions: Overbank flow was observed at elev.+75.785 m. (M.S.L.) but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. Natural flow of stream affected by diversions above station for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	71.89	72.29	73.80	72.79	74.10	74.03	74.44	73.60	73.25	72.87	72.64	72.44
2	.89	.25	.66	.70	.07	.16	.31	.54	.24	.86	.63	.43
3	.89	.26	.53	.64	73.97	.04	.28	.49	.23	.86	.62	.43
4	.88	.37	.39	.62	.95	75.96	.37	.47	.22	.85	.61	.42
5	.87	.46	.24	.64	.99	74.65	.30	.46	.21	.84	.61	.41
6	71.87	72.57	73.11	72.64	73.90	75.04	74.24	73.45	73.19	72.83	72.60	72.41
7	.86	.61	.02	.62	.80	74.92	.13	.44	.18	.82	.60	.40
8	.86	.58	.02	.64	.83	.80	.00	.44	.17	.82	.59	.40
9	.87	.59	.01	.71	.99	.79	73.90	.42	.16	.81	.58	.39
10	.86	.60	72.96	.81	74.10	75.08	.88	.45	.15	.81	.57	.39
11	71.86	72.69	72.86	72.92	74.14	75.35	73.85	73.49	73.14	72.80	72.57	72.38
12	.86	.78	.81	.93	.12	.46	.88	.51	.13	.79	.56	.38
13	.86	.87	.76	73.05	.13	.43	74.06	.50	.12	.79	.55	.37
14	.85	73.00	.83	.03	.07	.32	73.90	.48	.10	.78	.55	.37
15	.86	.27	.77	72.94	.02	.26	74.04	.48	.09	.77	.54	.36
16	71.86	73.69	72.67	72.86	73.87	75.21	74.94	73.47	73.08	72.76	72.53	72.36
17	.86	.97	.68	.87	74.25	.14	75.14	.45	.07	.75	.52	.35
18	.87	.70	.63	.89	.93	.16	74.99	.44	.06	.75	.52	.35
19	.90	.65	.58	.87	.82	.47	75.00	.42	.04	.74	.52	.34
20	.96	.44	.56	.85	.75	.50	74.97	.40	.05	.73	.54	.34
21	72.15	73.26	72.55	72.98	74.78	75.52	74.81	73.37	73.01	72.72	72.53	72.33
22	.31	.26	.56	75.17	.88	.65	.64	.35	.00	.71	.52	.33
23	.24	.42	.56	.26	.94	.83	.47	.33	72.98	.70	.51	.32
24	.25	.35	.59	.43	.85	76.03	.30	.31	.97	.69	.50	.31
25	.54	.42	.61	.61	.86	.21	.14	.31	.96	.69	.48	.30
26	72.60	73.57	72.69	73.81	74.30	76.33	73.98	73.30	72.94	72.68	72.47	72.29
27	.59	.65	.89	.91	.08	75.98	.86	.28	.93	.67	.46	.29
28	.52	.89	73.00	.82	73.97	.46	.75	.28	.92	.67	.45	.29
29	.39	74.01	72.94	.93	.84	.03	.69	.27	.90	.66		.28
30	.34	.03	.85	.94	.78	74.73	.67	.26	.89	.65		.32
31		73.95		74.06	.79		.67		.88	.64		.37
Mean	72.04	73.14	72.90	73.09	74.22	75.18	74.24	73.41	73.07	72.75	72.52	72.35
Max.	72.60	74.03	73.80	73.94	74.93	76.33	75.15	73.60	73.25	72.87	72.64	72.44
Min.	71.85	72.25	72.55	72.62	73.78	73.96	73.67	73.26	72.88	72.64	72.45	72.28

WATER YEAR 1956 : Max. 76.33 m. Min. 71.85 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	37	335	130	509	509	688	330	207	104	57	28
2	10	35	305	110	500	536	623	308	204	102	55	27
3	10	37	270	96	483	496	609	289	201	102	54	27
4	10	53	236	97	471	454	652	282	197	99	52	26
5	10	61	200	105	462	778	618	279	194	97	52	25
6	10	75	180	97	428	1,129	590	275	188	95	50	25
7	10	78	177	96	405	900	540	271	185	93	50	24
8	10	77	177	97	401	893	483	971	182	93	48	24
9	11	75	180	112	487	1,006	443	264	179	90	47	23
10	10	75	173	128	531	1,156	435	275	176	90	47	23
11	10	81	143	156	545	1,289	424	289	173	88	47	22
12	11	99	134	158	536	1,368	435	296	170	86	44	22
13	10	118	122	182	549	1,346	509	293	167	86	42	21
14	9.50	140	140	175	554	1,262	443	286	161	84	42	21
15	9.50	200	120	151	504	1,222	500	286	158	82	41	20
16	10	341	103	132	450	1,186	975	282	156	80	39	20
17	9.50	431	110	136	632	1,136	1,102	275	153	78	38	19
18	9.50	382	96	140	1,018	1,143	1,006	271	150	78	38	19
19	11	338	84	136	943	1,346	1,012	264	145	76	38	19
20	14	273	83	132	900	1,368	994	257	142	74	41	19
21	29	236	80	158	893	1,375	893	247	137	72	39	18
22	46	190	87	192	987	1,457	795	240	134	70	38	18
23	37	242	86	205	1,000	1,602	704	233	129	68	36	17
24	37	215	96	256	893	1,757	618	226	127	66	35	16
25	71	233	97	328	795	1,859	545	226	124	66	33	15
26	77	259	116	390	657	1,997	475	223	120	64	32	14
27	80	292	153	416	554	1,748	428	217	117	63	31	14
28	71	431	185	390	504	1,575	386	217	115	63	29	14
29	50	447	173	393	405	1,082	365	213	110	61		14
30	42	450	147	458	393	893	358	210	109	59		17
31		420		450	409		356		106	57		21
Total	745	6,421	4,588	6,202	18,798	35,711	19,004	7,895	4,816	2,486	1,195	632
Mean	24.8	207	148	200	606	1,190	613	263	115	80.2	42.7	20.4
Max.	80	450	335	458	1,018	1,997	1,102	330	207	104	57	28
Min.	9.50	35	80	96	393	454	356	210	106	57	29	14
Runoff - mcm.	64.368	554.774	396.403	535.852	1,624.147	3,085.430	1,641.945	682.128	416.102	214.790	103.248	54.604

WATER YEAR 1956 : Max. 1,997 Min. 9.50 Mean 297 Annual Runoff 9,373.795 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.26	10.00	76.34	2,006				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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: 26,396 sq.km.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: 135.192 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: 24 - time daily readings.

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.

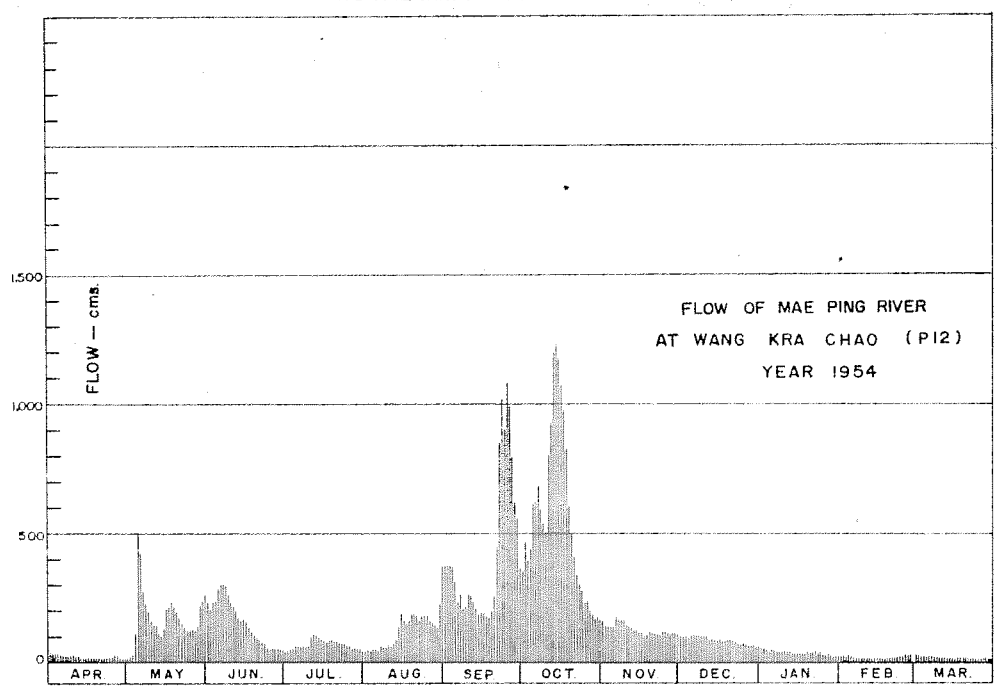
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1954. Natural flow of stream affected by state diversions above gage site for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.39	136.20	137.46	136.48	136.41	137.91	137.93	137.25	136.99	136.68	136.43	136.32
2	.37	.24	.37	.45	.41	.95	138.17	.22	.97	.66	.42	.31
3	.32	.32	.41	.49	.40	.90	137.95	.19	.96	.63	.40	.38
4	.30	.77	.46	.53	.46	.79	138.08	.22	.95	.62	.39	.25
5	.26	138.24	.48	.56	.42	.62	.46	.23	.95	.59	.38	.22
6	136.25	137.99	137.56	136.56	136.41	137.49	138.50	137.35	136.96	136.59	136.36	136.22
7	.25	.64	.65	.55	.51	.42	.54	.32	.98	.58	.32	.20
8	.25	.51	.60	.53	.56	.30	.30	.29	.99	.58	.32	.17
9	.26	.27	.50	.57	.61	.37	.13	.24	.97	.58	.31	.14
10	.24	.19	.41	.59	.59	.58	.17	.19	.96	.58	.29	.12
11	136.26	137.14	137.32	136.81	136.58	137.54	138.72	137.16	136.93	136.57	136.28	136.12
12	.18	.07	.23	.89	.62	.41	.97	.14	.91	.56	.28	.12
13	.18	136.97	.15	.86	.79	.32	139.39	.11	.89	.56	.28	.11
14	.18	.86	.12	.79	137.03	.25	.47	.10	.88	.56	.27	.11
15	.17	137.05	.14	.72	.17	.26	.37	.07	.86	.54	.27	.11
16	136.17	137.34	137.10	136.71	137.13	137.26	139.24	137.06	136.85	136.52	136.28	136.11
17	.17	.39	.01	.70	.08	.21	.03	.05	.84	.50	.28	.13
18	.16	.45	136.95	.71	.11	.22	138.73	.05	.84	.49	.27	.12
19	.11	.34	.86	.72	.17	.31	.41	.05	.84	.49	.26	.11
20	.12	.26	.80	.70	.19	.48	.16	.06	.82	.48	.26	.12
21	136.11	137.19	136.75	136.70	137.16	137.96	138.01	137.06	136.82	136.48	136.26	136.11
22	.15	.07	.71	.66	.12	138.81	137.88	.06	.80	.48	.25	.09
23	.19	.01	.66	.63	.16	139.13	.77	.10	.79	.48	.24	.09
24	.17	136.96	.61	.62	.21	138.98	.68	.11	.78	.46	.32	.08
25	.25	.98	.58	.59	.17	139.13	.59	.10	.77	.45	.33	.07
26	136.27	136.99	136.54	136.46	137.11	139.00	137.55	137.07	136.76	136.45	136.33	136.07
27	.23	.98	.53	.51	.06	138.75	.50	.05	.75	.45	.32	.06
28	.18	137.05	.52	.49	.00	.42	.43	.03	.74	.45	.34	.06
29	.17	.35	.50	.47	.03	.15	.37	.01	.74	.44		.08
30	.16	.54	.50	.47	.22	137.94	.32	.00	.72	.44		.08
31		.63		.45	.76		.28		.71	.44		.06
Mean	136.21	137.16	137.05	136.61	136.89	137.86	138.23	137.13	136.86	136.53	136.31	136.14
Max.	136.39	138.24	137.65	136.89	137.76	139.13	139.47	137.35	136.99	136.68	136.43	136.38
Min.	136.11	136.20	136.50	136.45	136.40	137.21	137.28	137.00	136.71	136.44	136.24	136.06

WATER YEAR 1954 : Max. 139.47 m. Min. 136.06 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	44	18	237	44	47	376	356	165	104	58	26	31
2	39	27	200	47	50	376	461	140	100	55	30	27
3	33	30	234	53	45	376	379	140	101	49	25	23
4	32	97	242	56	56	327	444	140	94	43	31	21
5	28	504	290	66	51	271	615	140	105	54	25	21
6	27	395	308	62	49	234	627	178	104	45	20	23
7	25	238	302	62	66	226	684	169	106	43	19	20
8	26	225	299	63	63	207	569	169	108	43	20	20
9	27	181	264	62	62	216	435	167	104	45	19	19
10	26	160	231	66	73	268	503	144	104	45	18	18
11	25	142	217	101	63	261	781	140	103	43	16	17
12	17	144	188	112	80	232	928	138	90	42	17	15
13	18	118	163	105	103	202	1,200	128	93	37	16	16
14	19	100	167	92	143	183	1,236	126	90	36	17	17
15	19	140	169	92	192	193	1,165	115	87	36	16	17
16	19	205	152	83	165	197	1,063	119	90	39	16	16
17	19	217	126	82	158	179	931	103	83	37	16	20
18	17	231	119	83	167	177	772	110	84	35	15	17
19	14	213	107	90	190	210	591	121	94	42	20	16
20	16	190	91	82	192	254	477	112	90	41	20	16
21	14	169	87	84	182	449	390	112	82	45	21	15
22	19	146	77	77	169	851	314	112	80	44	21	14
23	20	132	72	76	181	1,018	305	112	74	37	20	13
24	20	121	53	75	183	905	268	128	73	43	27	13
25	24	123	53	69	181	1,083	228	121	80	29	29	15
26	35	130	54	65	169	970	240	119	70	31	31	14
27	26	126	59	55	155	745	190	110	66	35	30	17
28	19	147	59	57	146	574	183	117	67	31	32	12
29	19	226	53	53	136	455	168	112	70	24		14
30	17	240	53	54	214	367	177	110	57	26		13
31		268		47	375		163		65	26		13
Total	703	5,403	4,726	2,215	4,106	12,382	16,843	3,917	2,718	1,239	613	543
Mean	23.0	174	158	71.0	132	413	543	131	87.7	40.0	21.9	17.5
Max.	44	504	308	112	375	1,083	1,236	178	108	58	32	31
Min.	14	18	53	44	45	177	163	103	57	24	15	12
Runoff - mcm.	60.739	466.819	408.326	191.376	354.758	1,069.805	1,455.235	338.429	234.835	107.050	52.963	49.915

WATER YEAR 1954 : Max. 1,236 Min. 12 Mean 152 Annual Runoff 4,787.250 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	21.00	139.59	1,336				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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: 26,396 sq.km.

Type of Gage: Water - stage.

Zero Gage at Bottom at: +135.192 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.

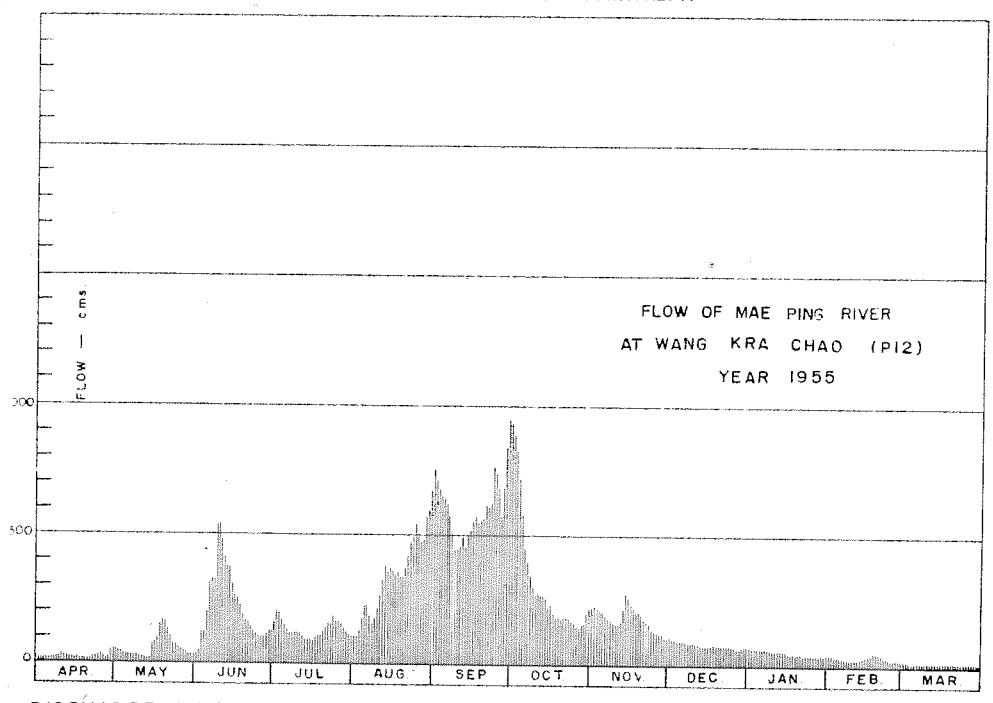
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements during 1955. Natural flow of stream affected by state diversions above gage site for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.06	136.56	136.42	137.13	136.80	138.65	139.08	137.50	136.99	136.68	136.48	136.32
2	.05	.51	.51	.27	.77	.62	138.97	.49	.99	.67	.47	.31
3	.06	.47	.93	.22	.91	.59	.81	.44	.98	.66	.46	.31
4	.07	.44	.95	.10	137.07	.58	.62	.39	.96	.65	.45	.30
5	.12	.38	137.34	.01	.30	.58	.39	.34	.96	.64	.45	.29
6	136.13	136.35	137.65	136.97	137.31	138.46	138.15	137.32	136.95	136.63	136.44	136.26
7	.13	.34	.67	.90	.11	.32	.00	.27	.94	.62	.42	.25
8	.14	.30	.66	.89	.06	.27	137.87	.23	.93	.61	.40	.24
9	.19	.29	138.26	.91	.13	.15	.76	.19	.92	.60	.39	.24
10	.31	.25	.28	.90	.26	.16	.69	.16	.92	.59	.39	.24
11	136.27	136.23	138.06	136.87	137.47	138.17	137.69	137.16	136.89	136.58	136.41	136.24
12	.21	.21	137.90	.80	.62	.17	.66	.18	.89	.57	.41	.22
13	.17	.17	.82	.73	.78	.12	.65	.34	.88	.57	.41	.23
14	.16	.28	.80	.74	.71	.18	.59	.53	.88	.57	.43	.22
15	.14	.71	.63	.73	.73	.24	.53	.48	.87	.56	.44	.21
16	136.11	136.77	137.52	136.73	137.69	138.31	137.47	137.41	136.86	136.55	136.50	136.22
17	.08	.89	.44	.79	.67	.34	.42	.35	.84	.54	.52	.22
18	.06	137.12	.36	.84	.68	.34	.36	.30	.84	.53	.53	.21
19	.05	.19	.23	.86	.68	.35	.35	.29	.83	.52	.53	.21
20	.04	.15	.15	.95	.71	.33	.32	.25	.82	.52	.51	.21
21	136.11	137.03	137.12	136.96	137.76	138.46	137.33	137.22	136.81	136.52	136.48	136.20
22	.21	136.89	.04	.98	.89	.43	.35	.19	.81	.51	.42	.19
23	.21	.76	136.95	137.03	.99	.49	.30	.17	.80	.50	.41	.18
24	.26	.68	.89	.09	138.07	.73	.24	.13	.78	.50	.40	.18
25	.40	.62	.85	.07	.14	.74	.20	.11	.76	.50	.38	.17
26	136.34	136.57	136.83	137.06	138.11	138.60	137.17	137.08	136.74	136.50	136.37	136.17
27	.32	.54	.83	136.99	.09	.41	.16	.07	.73	.50	.36	.17
28	.36	.53	.90	.94	.14	.59	.19	.06	.71	.50	.34	.16
29	.50	.49	.96	.89	.31	.88	.23	.03	.70	.50	.32	.16
30	.57	.47	137.03	.85	.35	139.14	.38	.01	.70	.50		.15
31		.44		.80	.46		.51		.69	.50		.15
Mean	136.19	136.57	137.03	136.93	137.64	138.45	137.69	137.26	136.85	136.56	136.43	136.22
Max.	136.57	137.19	138.28	137.27	138.46	139.14	139.08	137.53	136.99	136.68	136.53	136.32
Min.	136.04	136.17	136.42	136.73	136.77	138.12	137.16	137.01	136.69	136.50	136.32	136.15

WATER YEAR 1955 : Max. 139.14 m. Min. 136.04 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	54	32	171	108	755	928	237	107	71	43	20
2	12	46	55	205	105	765	868	237	105	68	40	19
3	14	43	124	200	137	675	791	223	99	68	38	19
4	14	39	124	166	171	648	666	210	95	67	36	18
5	16	35	218	150	229	643	541	200	97	67	35	18
6	17	33	315	135	234	620	424	190	97	65	32	16
7	17	33	328	120	178	545	390	180	92	61	30	14
8	18	30	328	122	168	501	325	173	88	61	29	15
9	22	31	537	122	185	443	293	161	86	61	28	16
10	31	27	545	124	221	446	271	157	88	55	28	16
11	29	24	454	122	279	458	273	159	83	54	30	15
12	24	21	399	108	332	493	268	171	83	55	29	14
13	21	17	371	93	381	446	268	221	78	57	30	16
14	20	19	371	99	357	497	251	279	78	58	34	15
15	19	76	303	97	374	525	221	254	76	52	37	14
16	20	88	257	95	357	554	207	234	78	47	45	14
17	17	105	254	107	347	571	195	213	78	50	47	13
18	15	159	221	116	356	541	183	202	78	49	51	12
19	14	171	190	116	335	554	180	202	76	45	51	13
20	12	166	166	131	341	562	175	183	76	47	46	13
21	16	126	161	141	374	616	180	178	76	49	40	14
22	25	105	143	159	428	606	187	168	76	44	32	13
23	25	85	124	156	473	634	178	159	76	44	32	12
24	29	73	112	185	493	765	166	137	75	44	28	12
25	35	61	105	168	541	740	157	128	75	44	27	12
26	24	55	101	166	509	666	150	124	70	44	25	12
27	18	47	103	159	469	560	148	120	68	44	24	12
28	24	45	116	143	489	700	154	120	65	44	23	11
29	54	39	128	126	575	835	161	108	67	44	21	11
30	55	37	135	114	597	945	200	105	75	44		11
31		39		105	667		237		75	44		11
Total	668	1,929	6,820	4,221	10,810	18,249	9,636	5,433	2,536	1,647	991	441
Mean	22.3	62.5	227	136	349	608	311	181	81.8	53.1	34.2	14.2
Max.	55	171	545	205	667	945	928	279	107	71	51	20
Min.	11	17	32	93	105	443	148	105	65	44	21	11
Runoff - MCM.	57.715	166.666	589.248	364.694	933.984	1,576.714	832.550	469.411	219.110	142.301	85.622	38.102

WATER YEAR 1955 : Max. 945 Min. 11 Mean 173 Annual Runoff 5,478.450 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30	09.00	139.16	957				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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: 26,396 sq.km.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: +35.192 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.

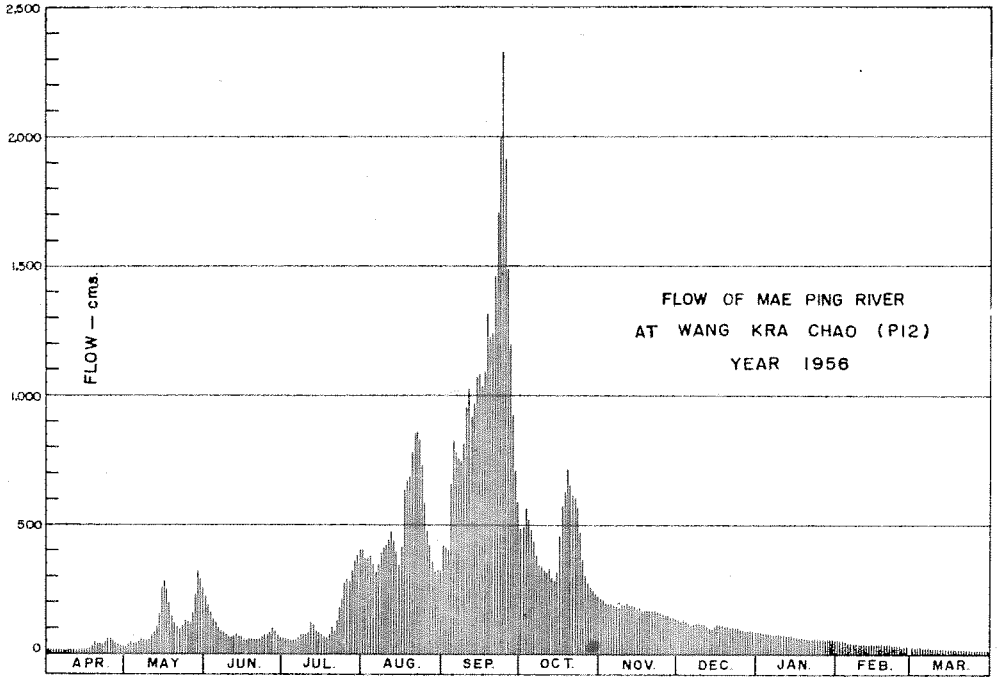
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. Natural flow of stream affected by state diversions above gage site for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.15	136.36	137.37	136.57	137.91	138.05	138.36	137.52	137.15	136.79	136.53	136.29
2	.15	.45	.25	.55	.84	.02	.35	.48	.14	.77	.52	.28
3	.14	.47	.14	.55	.84	137.96	.48	.44	.13	.76	.51	.28
4	.12	.45	.04	.54	.87	138.50	.38	.41	.12	.75	.48	.27
5	.12	.46	136.98	.53	.77	.81	.33	.39	.10	.73	.46	.26
6	136.12	136.51	136.91	136.53	137.66	138.74	138.23	137.40	137.08	136.72	136.44	136.26
7	.13	.56	.83	.61	.76	.74	.10	.38	.08	.71	.43	.25
8	.12	.56	.77	.66	.90	.75	137.98	.36	.07	.70	.42	.24
9	.13	.54	.72	.65	.96	.88	.91	.42	.06	.69	.41	.24
10	.13	.54	.68	.68	138.03	139.10	.84	.43	.04	.69	.40	.23
11	136.13	136.63	136.65	136.78	138.06	139.18	137.85	137.41	137.03	136.67	136.40	136.22
12	.13	.73	.66	.95	.11	.16	.88	.38	.02	.65	.40	.21
13	.13	.87	.69	.88	.04	.16	.77	.38	.01	.64	.40	.21
14	.17	137.16	.62	.76	137.94	.25	.70	.36	.01	.63	.40	.21
15	.15	.50	.56	.71	.86	.29	.83	.29	136.99	.62	.39	.21
16	136.16	137.62	136.52	136.68	138.04	139.21	138.21	137.28	136.99	136.61	136.39	136.21
17	.23	.47	.49	.61	.56	.26	.35	.28	.98	.60	.42	.20
18	.39	.29	.49	.58	.54	.54	.48	.29	.97	.60	.44	.19
19	.48	.11	.49	.65	.59	.41	.65	.28	.96	.59	.44	.18
20	.42	.00	.49	.90	.74	.40	.62	.27	.95	.57	.43	.16
21	136.44	136.90	136.51	136.77	138.92	139.53	138.49	137.26	136.93	136.57	136.41	136.16
22	.44	.88	.52	.95	.97	.92	.37	.25	.92	.57	.39	.16
23	.51	.92	.54	137.14	.86	140.22	.24	.24	.92	.57	.38	.15
24	.60	.98	.62	.32	.62	.54	.14	.22	.91	.58	.36	.15
25	.61	.97	.67	.31	.35	.26	137.95	.19	.90	.58	.35	.14
26	136.53	137.07	136.76	137.53	138.15	139.76	137.83	137.18	136.88	136.57	136.33	136.14
27	.44	.20	.85	.54	.00	.38	.74	.17	.86	.57	.32	.13
28	.42	.52	.99	.65	137.89	.06	.68	.16	.86	.57	.30	.13
29	.36	.67	.69	.78	.83	138.73	.64	.16	.85	.56		.13
30	.34	.59	.60	.85	.85	.51	.61	.15	.83	.54		.18
31		.48		.90	.83		.56		.81	.53		.12
Mean	136.28	136.95	136.74	136.94	138.14	139.14	138.08	137.31	136.98	136.63	136.41	136.19
Max.	136.61	137.67	137.37	137.90	138.97	140.54	138.65	137.52	137.15	136.79	136.53	136.29
Min.	136.12	136.36	136.49	136.53	137.83	137.96	137.56	137.15	136.81	136.53	136.30	136.12

WATER YEAR 1956 : Max. 140.54 m. Min. 136.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	30	220	63	404	423	483	212	130	84	52	26
2	11	40	181	56	366	415	495	204	128	82	50	24
3	11	44	152	56	373	407	561	191	130	79	50	25
4	9	37	130	56	381	669	508	191	124	79	48	25
5	9	41	124	51	349	827	479	191	114	76	44	23
6	9	49	98	52	317	770	431	189	109	74	41	21
7	9	60	89	66	356	748	377	184	118	73	40	22
8	10	54	82	77	392	753	349	177	118	73	40	21
9	10	52	77	73	415	827	338	191	116	71	38	21
10	9	56	66	79	427	958	321	186	113	71	37	20
11	10	73	63	96	443	1,026	317	196	111	71	37	20
12	10	85	71	120	475	916	331	184	107	66	37	19
13	9	112	76	109	427	970	294	184	100	66	38	18
14	12	160	66	89	388	1,075	285	184	92	66	37	18
15	11	269	66	82	349	1,089	338	169	111	63	37	18
16	12	288	57	77	411	1,040	475	177	111	63	35	19
17	21	234	54	68	638	1,110	570	165	111	62	38	17
18	38	184	56	63	679	1,319	613	163	105	62	40	15
19	40	149	55	79	695	1,223	716	167	103	57	38	15
20	35	113	54	109	781	1,245	684	167	103	57	38	13
21	42	107	56	91	856	1,382	623	163	100	56	38	14
22	46	94	60	134	862	1,757	604	160	100	55	34	14
23	45	113	68	189	827	2,007	556	160	100	55	34	13
24	63	130	77	223	673	2,321	443	158	100	57	32	13
25	60	126	74	278	538	1,912	342	154	92	57	31	12
26	48	128	87	291	459	1,390	288	149	92	56	28	12
27	32	172	100	281	392	1,138	272	147	89	55	28	12
28	32	257	89	321	345	892	257	139	89	55	28	12
29	28	321	76	370	314	695	242	139	89	54		12
30	28	288	62	388	321	566	231	132	85	54		15
31		260		404	328		220		82	52		11
Total	720	4,126	2,586	4,491	14,981	31,870	13,043	5,173	3,272	2,001	1,068	540
Mean	24	133	86	145	483	1,062	421	172	105	64	38	17
Max.	63	321	220	404	862	2,321	716	212	130	84	52	26
Min.	9	30	54	51	314	407	220	132	82	52	28	11
Runoff — mcm.	62.208	356.486	223.430	388.022	1,294.358	2,753.568	1,126.915	446.947	282.701	172.886	92.275	46.656

WATER YEAR 1956 : Max. 2,321 Min. 9 Mean 230 Annual Runoff 7,246.454 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 24	09.00	140.63	2,377				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.39 m. (M.S.L.)

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

Location: Near 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.

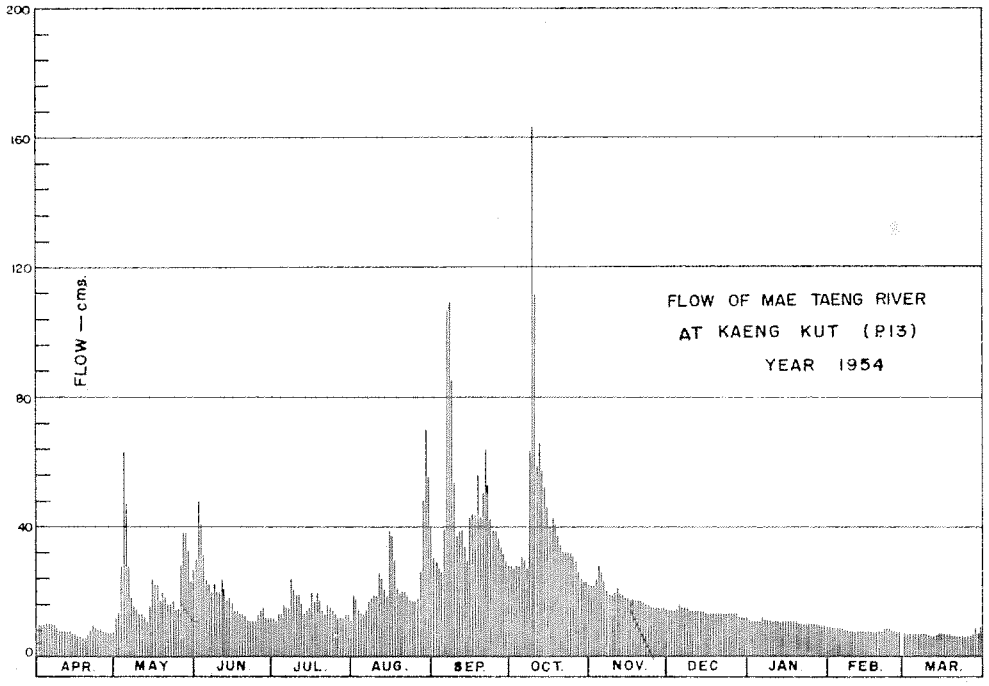
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship is defined by discharge measurements made during 1954. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.15	441.23	441.76	441.19	441.40	441.64	441.59	441.58	441.34	441.23	441.13	114.06
2	.14	.24	442.06	.18	.34	.62	.58	.58	.34	.22	.12	.05
3	.14	.58	441.85	.23	.25	.58	.60	.61	.34	.22	.12	.05
4	.14	442.20	.67	.24	.22	.54	.60	.70	.38	.22	.12	.04
5	.14	441.78	.58	.31	.21	.51	.65	.63	.37	.22	.11	.04
6	441.15	441.43	441.55	441.29	441.24	442.82	441.63	441.57	441.35	441.22	441.11	441.04
7	.13	.32	.51	.30	.32	.82	.60	.54	.34	.21	.10	.04
8	.12	.29	.48	.51	.36	.15	.74	.53	.35	.21	.10	.04
9	.11	.27	.44	.42	.37	441.90	443.39	.52	.32	.20	.10	.04
10	.10	.22	.44	.39	.37	.80	442.73	.54	.31	.20	.09	.03
11	441.10	441.21	441.58	441.32	441.55	441.84	442.16	441.54	441.31	441.20	441.09	441.03
12	.09	.19	.50	.28	.51	.83	.20	.50	.31	.20	.09	.03
13	.09	.17	.43	.25	.43	.73	.01	.49	.31	.19	.09	.04
14	.08	.31	.38	.28	.40	.67	441.96	.48	.30	.19	.09	.06
15	.08	.49	.33	.31	.81	.82	.90	.47	.29	.19	.09	.06
16	441.07	441.45	441.29	441.42	441.78	441.84	441.88	441.46	441.28	441.19	441.09	441.05
17	.07	.46	.28	.34	.57	.84	.93	.46	.28	.19	.08	.05
18	.06	.34	.26	.42	.44	442.04	.87	.45	.28	.19	.08	.05
19	.06	.40	.24	.32	.40	441.83	.80	.46	.28	.19	.08	.04
20	.07	.35	.22	.27	.43	.98	.76	.46	.27	.18	.07	.03
21	441.08	441.31	441.20	441.25	441.42	442.24	441.73	441.43	441.27	441.18	441.09	441.02
22	.15	.30	.20	.31	.38	441.98	.73	.42	.26	.17	.12	.02
23	.13	.35	.19	.28	.34	.83	.72	.42	.26	.17	.12	.02
24	.12	.28	.19	.26	.34	.79	.72	.41	.26	.17	.11	.02
25	.11	.30	.22	.23	.34	.78	.70	.40	.26	.16	.10	.02
26	441.09	441.58	441.27	441.21	441.37	441.73	441.66	441.38	441.26	441.16	441.09	441.02
27	.08	.86	.29	.20	.58	.67	.64	.38	.26	.15	.08	.05
28	.06	.85	.20	.20	.95	.61	.62	.37	.25	.14	.07	.11
29	.07	.75	.19	.22	442.32	.58	.60	.36	.25	.14		.06
30	.08	.56	.21	.22	441.88	.56	.59	.35	.24	.14		.15
31		.66		.18	.70		.58		.23	.13		.09
Mean	441.10	441.44	441.40	441.28	441.48	441.85	441.83	441.48	441.29	441.19	441.10	441.05
Max.	441.15	442.20	442.06	441.51	442.32	442.82	443.39	441.70	441.38	441.23	441.13	441.15
Min.	441.06	441.17	441.19	441.18	441.21	441.51	441.58	441.35	441.23	441.13	441.07	441.02

WATER YEAR 1954 : Max. 443.39 m. Min. 441.02 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.90	12	31	12	19	30	28	22	14	11	9.00	6.80
2	9.60	14	48	11	17	29	27	22	14	11	8.70	6.54
3	9.60	28	36	13	14	27	28	24	14	11	8.70	6.54
4	9.60	63	27	13	13	26	28	28	15	11	8.70	6.28
5	9.60	38	23	16	13	24	31	25	16	11	8.40	6.28
6	9.90	21	22	15	14	107	30	22	15	12	8.40	6.28
7	9.30	17	20	15	17	109	27	20	15	11	7.84	6.28
8	8.10	15	22	24	18	60	35	19	15	11	7.84	6.28
9	7.84	15	20	20	19	46	163	19	14	11	7.84	6.28
10	7.58	13	20	19	19	37	98	20	14	11	7.58	6.02
11	7.58	13	24	16	26	39	59	21	14	11	7.58	6.02
12	7.32	12	20	15	24	39	66	19	14	11	7.58	6.02
13	7.32	11	17	13	20	33	54	19	14	11	7.58	6.28
14	7.06	16	18	14	19	30	51	18	14	11	7.58	6.80
15	7.06	24	16	15	39	43	42	18	13	11	7.58	6.80
16	6.80	22	14	20	37	44	40	17	13	11	7.58	6.54
17	6.80	22	14	17	27	44	43	17	13	11	7.32	6.54
18	6.54	17	13	20	21	56	40	17	13	11	7.32	6.54
19	6.54	20	13	16	19	43	36	17	13	11	7.32	6.28
20	6.80	18	12	14	20	92	34	17	13	10	7.06	6.02
21	7.32	16	11	13	20	64	32	16	13	10	7.58	5.76
22	9.30	16	11	16	18	48	32	16	13	10	8.40	5.76
23	8.70	17	11	15	17	39	32	16	13	10	8.40	5.76
24	8.40	14	11	14	17	39	32	15	13	10	8.10	5.76
25	8.10	15	13	13	17	39	31	15	13	9.90	7.84	5.76
26	7.58	27	14	12	18	36	29	15	13	9.90	7.58	5.76
27	7.32	38	15	12	27	33	25	15	13	9.60	7.32	6.54
28	6.80	38	12	12	47	31	24	15	12	9.30	7.06	8.10
29	7.06	32	12	13	70	29	23	15	12	9.30		6.80
30	7.32	23	12	13	43	28	23	14	12	9.30		9.30
31		27		11	33		22		12	9.00		7.58
Total	238.74	674	552	462	742	1,304	1,265	553	419	326.30	219.78	200.30
Mean	7.96	21.7	18.4	14.9	23.9	43.5	40.8	18.4	13.5	10.5	7.85	6.46
Max.	9.90	63	48	24	70	109	163	28	16	12	9.00	9.30
Min.	6.54	11	11	11	13	24	22	14	12	9.00	7.06	5.76
Runoff - mcm.	20.627	58.234	47.693	39.917	64.109	112.666	109.296	47.779	36.202	28.192	18.989	17.306

WATER YEAR 1954 : Max. 163 Min. 5.76 Mean 19.0 Annual Runoff 601.009 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	12.00	443.74	216				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Tang 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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.39 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: 13 - time daily readings at 06.00 - 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 13 readings.

Period of Available Gage Records: 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.

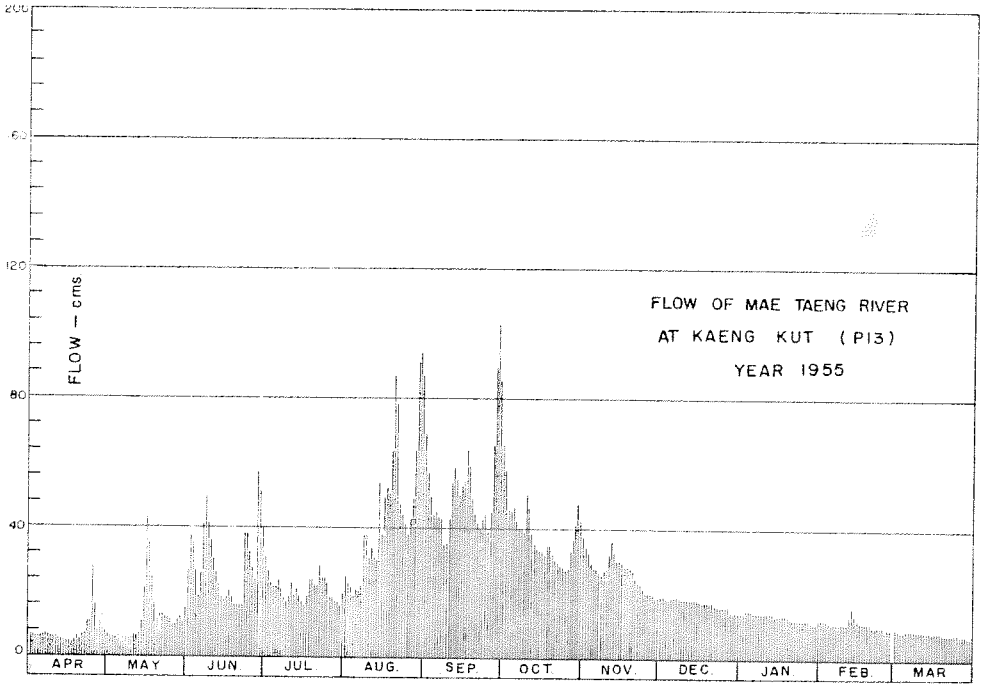
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.04	441.02	441.60	441.73	441.58	442.44	442.29	441.81	441.44	441.29	441.16	114.07
2	.03	.00	.81	.62	.49	.28	.19	.75	.43	.28	.16	.06
3	.02	440.99	.79	.56	.50	.21	.09	.71	.42	.27	.16	.05
4	.01	.99	.50	.56	.42	.12	.06	.71	.42	.27	.15	.05
5	.02	441.05	.41	.54	.47	.14	.09	.68	.41	.27	.15	.06
6	441.04	441.00	441.62	441.60	441.48	442.08	441.98	441.66	441.40	441.26	441.15	441.06
7	.04	440.98	.96	.50	.54	.09	.94	.64	.40	.25	.14	.06
8	.03	.98	442.13	.42	.86	.00	.93	.63	.40	.25	.13	.05
9	.00	.96	441.98	.40	.86	.03	.91	.64	.39	.25	.13	.04
10	.00	.98	.85	.47	.73	.20	442.15	.65	.38	.24	.13	.04
11	441.00	441.02	441.69	441.54	441.77	442.43	442.00	441.77	441.38	441.24	441.13	441.04
12	440.99	.01	.63	.43	.67	.43	441.89	.82	.37	.24	.21	.05
13	.98	.04	.51	.50	.62	.35	.86	.70	.37	.24	.31	.05
14	.96	.23	.45	.40	442.20	.26	.83	.64	.37	.23	.21	.03
15	.96	.53	.40	.36	441.86	.31	.82	.62	.37	.23	.17	.02
16	440.95	442.01	441.45	441.34	442.12	442.36	441.80	441.60	441.35	441.23	441.15	441.03
17	.94	441.79	.51	.46	.16	.52	.79	.59	.34	.23	.14	.03
18	.94	.53	.43	.57	.15	.29	.87	.58	.34	.23	.14	.03
19	.93	.27	.35	.56	.50	.18	.86	.57	.34	.22	.13	.02
20	.92	.20	.35	.48	.83	.13	.77	.56	.33	.21	.12	.02
21	441.00	441.25	441.36	441.48	442.64	442.07	441.75	441.54	441.33	441.21	441.11	441.01
22	.02	.25	.35	.66	.10	.05	.73	.53	.32	.20	.11	.01
23	.15	.19	.93	.56	.12	.10	.71	.51	.32	.20	.11	.00
24	.12	.20	.92	.57	.04	.13	.70	.49	.31	.19	.10	.00
25	.62	.17	.66	.49	441.98	.00	.68	.48	.31	.19	.09	440.99
26	441.18	441.14	441.61	441.44	442.12	441.93	441.69	441.48	441.31	441.19	441.09	440.99
27	.09	.12	.55	.42	.23	442.48	442.02	.47	.30	.19	.08	.99
28	.21	.19	442.29	.39	.59	.80	441.91	.47	.30	.18	.08	.99
29	.10	.19	.13	.38	.94	.99	442.03	.45	.30	.18	.07	.98
30	.05	.15	441.81	.35	.92	.53	.05	.44	.30	.18		.97
31		.35		.48	.78		441.89		.29	.17		.97
Mean	441.04	441.19	441.67	441.49	442.04	442.26	441.91	441.61	441.36	441.23	441.14	441.02
Max.	441.62	442.01	442.29	441.73	442.94	442.99	442.29	441.82	441.44	441.29	441.31	441.07
Min.	440.92	440.96	441.35	441.35	441.42	441.93	441.68	441.44	441.29	441.17	441.07	440.97

WATER YEAR 1955 : Max. 442.99 m. Min. 440.92 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.54	6.77	28	31	25	64	62	36	19	14	12	9.16
2	6.31	6.31	37	27	22	52	56	34	19	14	12	8.92
3	6.08	6.08	36	23	22	49	46	32	18	15	12	8.68
4	5.85	6.08	22	23	19	44	45	28	18	15	11	8.68
5	6.08	7.48	19	22	21	45	46	28	19	15	11	8.92
6	6.54	6.31	26	24	21	43	41	27	19	14	11	8.92
7	6.54	5.85	41	20	23	43	40	26	19	14	11	8.92
8	6.31	5.85	49	18	38	34	40	26	19	14	11	8.68
9	5.62	5.62	40	17	38	36	39	28	18	14	11	8.44
10	5.62	6.08	35	19	31	43	50	28	18	14	11	8.44
11	5.62	7.00	28	23	34	54	43	33	18	14	11	8.44
12	5.39	6.77	26	19	30	59	36	36	18	14	13	8.20
13	5.16	7.48	21	21	28	55	35	30	18	14	16	8.20
14	4.70	12	18	18	54	50	33	30	18	13	13	8.20
15	4.70	23	17	17	38	53	33	30	18	13	12	8.20
16	4.52	43	19	16	50	55	32	29	17	13	11	8.20
17	4.34	33	21	20	52	64	32	28	17	13	11	8.20
18	5.39	23	18	24	51	52	35	28	17	13	11	8.20
19	6.31	14	16	24	66	47	35	28	17	13	11	7.96
20	5.39	12	16	22	87	44	31	27	17	12	11	7.96
21	6.77	13	16	22	74	41	30	24	17	12	10	7.72
22	6.77	13	16	28	43	40	29	23	16	12	10	7.72
23	11	12	38	24	44	43	28	23	16	12	10	7.48
24	11	12	38	25	40	44	28	21	16	12	10	7.48
25	28	11	28	22	38	38	27	20	16	12	9.92	7.24
26	11	10	26	18	44	35	28	20	16	12	9.92	7.24
27	8.44	10	24	16	50	68	42	29	16	12	9.66	7.24
28	11	12	57	17	68	89	37	20	14	11	9.40	7.24
29	8.68	12	50	17	91	103	42	19	14	11	9.16	7.00
30	7.48	11	35	16	94	75	48	19	14	11		6.77
31		17		21	84		40		14	12		6.77
Total	223.15	376.68	861	656	1,420	1,562	1,189	801	530	404	321.06	249.42
Mean	7.44	12.1	28.7	21.2	45.8	52.1	38.3	26.7	17.1	13.0	11.1	8.04
Max.	28	43	57	31	94	103	62	36	19	15	12	9.16
Min.	4.34	5.62	16	16	19	34	27	19	14	11	9.16	6.77
Runoff - mcm.	19.280	32.545	74.390	56.678	122.688	134.957	102.730	69.206	45.792	34.906	27.739	21.550

WATER YEAR 1955 : Max. 103 Min. 4.34 Mean 23.5 Annual Runoff 742.462 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 29	10.00	443.29	129				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Tang 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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +440.39 m. (M.S.L.)

Bench Mark: R.W. - R.I.D. No.6

Location: Near the gage site
Elevation: +444.360 m. (M.S.L.)

Gage Reading Frequency: 13 - time daily readings at 06.00 - 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 13 readings.

Period of Available Gage Records: 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.

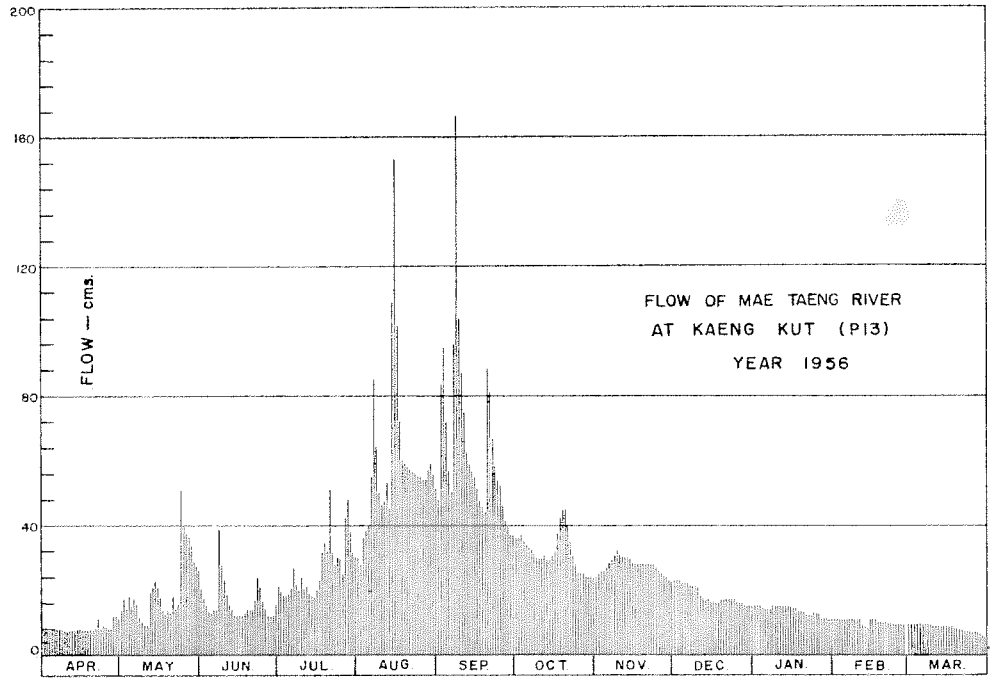
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	440.98	441.26	441.49	441.44	441.72	441.99	442.26	441.90	441.60	441.36	441.23	441.15
2	.98	.35	.41	.38	.64	443.06	.25	.90	.59	.35	.23	.15
3	.98	.25	.33	.37	.80	.26	.27	.89	.59	.35	.23	.15
4	441.02	.40	.27	.37	.87	442.72	.21	.89	.58	.34	.23	.15
5	.01	.28	.24	.39	.88	.43	.18	.89	.57	.34	.22	.14
6	440.99	441.36	441.28	441.50	442.31	441.32	442.15	441.89	441.56	441.34	441.22	441.14
7	.98	.29	.30	.66	.75	443.18	.12	.89	.55	.33	.22	.14
8	.98	.15	442.09	.49	.13	444.31	.09	.94	.54	.33	.21	.14
9	.98	.11	441.68	.42	441.93	443.40	.08	.96	.53	.32	.21	.13
10	.97	.23	.60	.54	.89	.09	.07	.93	.52	.32	.21	.10
11	440.98	441.24	441.39	441.49	441.94	442.76	442.06	441.90	441.51	441.31	441.21	441.13
12	.99	.45	.32	.44	442.07	.61	.11	.89	.49	.31	.20	.12
13	441.00	.51	.28	.39	441.86	.56	.04	.89	.48	.31	.20	.12
14	.01	.52	.24	.35	443.63	.51	.04	.89	.47	.31	.20	.12
15	.01	.48	.22	.36	444.24	.45	.08	.89	.46	.31	.19	.12
16	441.01	441.36	441.21	441.41	443.38	442.41	442.14	441.88	441.45	441.30	441.19	441.12
17	.08	.20	.24	.43	442.35	.36	.28	.88	.44	.29	.19	.12
18	.07	.19	.28	.71	.28	.30	.40	.88	.44	.28	.18	.11
19	440.99	.21	.30	.80	.26	.27	.49	.87	.43	.28	.18	.11
20	.98	.21	.29	.77	.23	.92	.48	.87	.43	.28	.18	.11
21	441.00	441.39	441.29	442.19	442.21	443.02	442.30	441.86	441.45	441.27	441.17	441.10
22	.16	.29	.42	441.76	.19	442.70	.17	.85	.44	.27	.17	.10
23	.00	.35	.62	.67	.19	.64	.07	.83	.43	.26	.16	.09
24	.04	442.38	.48	.72	.16	.59	.02	.78	.42	.26	.16	.09
25	.02	.07	.34	.70	.15	.48	441.95	.73	.41	.26	.16	.08
26	440.99	442.06	441.25	441.56	442.14	442.40	441.95	441.68	441.41	441.26	441.16	441.08
27	441.01	441.99	.22	.85	.14	.36	.93	.63	.40	.24	.16	.08
28	.08	.93	.22	442.01	.22	.32	.91	.62	.38	.24	.15	.07
29	.17	.75	.22	441.88	.25	.28	.91	.61	.38	.24	.15	.07
30	.15	.74	.30	.74	.16	.27	.90	.60	.37	.24		.06
31		.69		.72	.07		.90		.37	.24		.06
Mean	441.02	441.47	441.36	441.60	442.26	442.66	442.12	441.84	441.47	441.29	441.19	441.11
Max.	441.17	442.38	442.09	442.19	444.24	444.31	442.49	441.96	441.60	441.36	441.23	441.15
Min.	440.97	441.11	441.21	441.35	441.64	442.27	441.90	441.60	441.37	441.24	441.15	441.06

WATER YEAR 1956 : Max. 444.31 m. Min. 440.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.04	14	20	21	30	48	36	24	23	15	11	9.28
2	7.04	17	17	19	28	84	36	25	23	15	11	9.28
3	7.04	14	15	18	36	95	37	26	23	15	11	9.28
4	7.92	18	13	18	38	67	35	26	22	14	11	9.28
5	7.92	15	13	19	39	54	34	27	22	14	11	9.04
6	7.48	17	14	20	55	50	33	28	22	14	11	9.04
7	7.26	15	14	27	85	88	32	29	21	14	11	9.04
8	7.26	11	39	20	56	166	31	31	21	15	11	9.04
9	7.26	10	25	20	48	101	30	32	21	15	11	8.80
10	7.04	13	23	24	46	84	30	31	21	15	11	8.56
11	7.26	13	17	20	48	67	30	30	18	15	11	8.36
12	7.48	19	15	21	53	61	31	30	17	15	8.58	8.14
13	7.70	21	14	19	45	58	29	30	17	15	8.58	8.14
14	7.92	23	12	18	109	56	29	30	17	15	8.58	8.14
15	7.92	20	12	18	153	54	30	28	16	15	11	8.14
16	7.92	17	12	20	94	49	32	28	16	14	11	8.14
17	9.52	13	12	23	63	47	37	28	16	14	11	8.14
18	9.28	12	13	32	60	45	42	28	16	13	10	7.92
19	7.48	13	14	35	59	44	45	28	17	13	10	7.92
20	7.26	13	14	32	58	88	45	28	17	13	10	7.92
21	7.70	18	14	51	57	77	38	28	17	12	10	7.04
22	11	14	18	31	56	60	34	28	17	12	9.52	7.04
23	7.92	16	24	28	56	56	30	28	17	12	9.52	6.82
24	8.80	51	20	30	55	53	28	27	17	13	9.52	6.82
25	8.36	39	16	29	55	48	25	26	16	13	9.52	6.60
26	7.70	37	13	25	54	43	25	25	16	13	9.52	6.60
27	8.14	36	12	42	54	41	25	24	16	11	9.52	6.60
28	12	34	12	48	57	39	24	24	15	11	9.52	6.39
29	12	28	12	39	59	37	24	23	15	11	9.52	5.34
30	11	27	15	31	55	37	24	23	15	11		5.13
31		26		30	51		24		15	11		5.13
Total	247.62	634	484	828	1,812	1,897	985	823	562	418	296.38	240.91
Mean	8.25	20.4	16.1	26.7	58.4	66.7	31.8	27.4	18.1	13.5	10.2	7.77
Max.	12	51	39	51	153	166	45	32	23	15	11	9.28
Min.	7.04	10	12	18	28	37	24	23	15	11	8.58	5.13
Runoff - mcm.	21.394	54.778	41.818	71.539	156.557	163.901	85.104	71.107	48.577	36.115	25.607	20.815

WATER YEAR 1956 : Max. 166 Min. 5.13 Mean 25.2 Annual Runoff 797.921 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 8	11.00	444.74	207				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

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

Location: Lat 18°- 13' - 40" N, Long 98°- 33' - 35" E, on right bank near bridge on highway Hot - Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km.

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

Rating Operation:

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

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

Overbank Flow Conditions: No overbank flow.

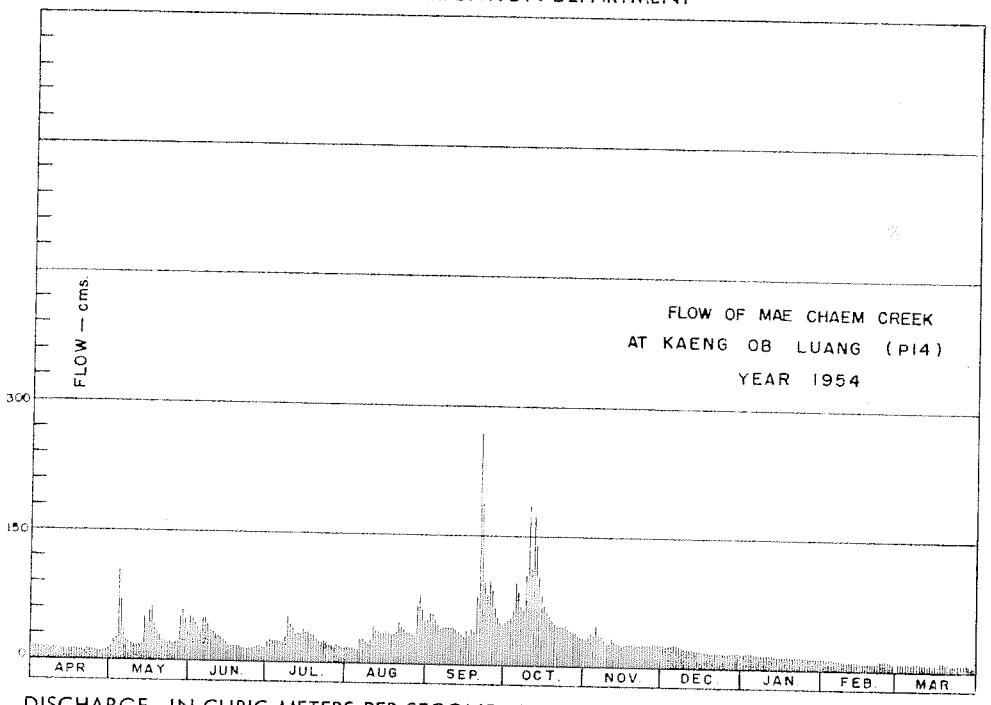
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.69	276.74	277.33	276.89	276.80	277.27	277.28	277.08	276.92	276.77	276.62	276.53
2	.67	.90	.26	.90	.83	.32	.32	.12	.91	.76	.62	.52
3	.67	.94	.16	.87	.81	.36	.30	.17	.92	.75	.61	.51
4	.67	277.81	.05	.89	.79	.23	.40	.17	.92	.75	.61	.51
5	.66	.51	.04	.87	.79	.15	.72	.18	.93	.74	.60	.50
6	276.66	277.07	277.30	276.86	276.98	277.19	277.58	277.13	176.92	276.74	276.60	276.50
7	.66	276.85	.31	.85	.99	.20	.41	.08	.91	.73	.59	.49
8	.65	.79	.12	.97	.94	.14	.42	.05	.89	.73	.59	.49
9	.65	.77	.05	277.26	.94	.11	.77	.04	.88	.73	.58	.49
10	.64	.73	.03	.16	.99	.14	278.16	.03	.88	.73	.57	.49
11	276.63	276.76	277.01	277.09	277.19	277.15	277.80	277.05	276.87	276.73	276.57	276.48
12	.62	.77	276.96	.01	.16	.12	278.12	.05	.85	.72	.57	.48
13	.62	277.08	.92	.02	.16	.11	277.92	.03	.85	.71	.57	.48
14	.61	.28	.89	.03	.10	.05	.64	.02	.85	.71	.56	.50
15	.61	.18	.86	.03	.11	.07	.51	.01	.84	.71	.56	.53
16	276.63	277.34	276.83	277.03	277.13	277.15	277.43	277.00	276.84	276.70	276.56	276.58
17	.64	.39	.80	.04	.11	.10	.36	.00	.84	.70	.55	.56
18	.60	.05	.80	.01	.07	.17	.33	.03	.83	.69	.55	.55
19	.58	.05	.78	.02	.07	.16	.30	.00	.83	.69	.55	.51
20	.58	276.91	.76	276.92	.10	.60	.25	.02	.82	.69	.55	.51
21	276.59	276.85	276.73	276.89	277.28	278.44	277.23	277.01	276.82	276.69	276.56	276.49
22	.67	.82	.71	.90	.21	.18	.23	276.99	.81	.68	.57	.47
23	.65	.81	.71	.94	.14	277.69	.20	.97	.81	.68	.59	.47
24	.65	.82	.72	.91	.12	.58	.18	.96	.80	.68	.59	.46
25	.61	.83	.73	.87	.10	.70	.16	.95	.80	.67	.58	.46
26	276.59	276.84	276.74	276.84	277.08	277.48	277.14	276.95	276.80	276.67	276.57	276.46
27	.57	.85	.78	.83	.05	.37	.13	.94	.79	.66	.55	.45
28	.60	277.26	.81	.84	.45	.27	.11	.93	.79	.65	.54	.45
29	.60	.40	.75	.83	.58	.22	.10	.93	.79	.65		.45
30	.65	.17	.77	.81	.39	.23	.09	.93	.78	.64		.48
31		.07		.79	.29		.08		.78	.63		.54
Mean	276.63	277.02	276.92	276.94	277.08	277.33	277.40	277.02	276.84	276.70	276.57	276.49
Max.	276.69	277.81	277.33	277.26	277.58	278.44	278.16	277.18	276.93	276.77	276.62	276.58
Min.	276.57	276.73	276.71	276.79	276.79	277.05	277.08	276.93	276.79	276.63	276.54	276.45

WATER YEAR 1954 : Max. 278.44 m. Min. 276.45 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	16	51	24	18	51	50	31	25	17	12	8.02
2	13	24	48	25	18	59	52	35	24	17	12	8.02
3	14	27	43	24	17	59	55	38	25	17	12	8.02
4	14	104	36	24	17	50	64	37	25	17	12	8.02
5	13	64	35	24	15	45	95	47	26	16	11	8.02
6	14	33	50	24	28	41	81	33	25	16	11	8.02
7	13	21	51	22	28	43	62	34	24	16	10	8.02
8	13	21	39	30	25	42	65	29	22	16	10	8.02
9	14	18	35	53	25	43	107	27	21	16	9.78	8.02
10	13	18	33	43	28	42	185	26	21	16	9.06	8.02
11	12	18	31	39	43	43	112	32	21	16	9.06	7.68
12	11	18	28	31	37	39	173	28	20	15	9.06	7.68
13	11	36	27	34	37	38	128	26	20	14	9.06	7.68
14	11	50	24	33	34	34	95	25	20	14	8.70	7.68
15	12	43	22	37	35	33	79	24	19	14	8.70	8.70
16	12	57	19	34	37	39	67	25	19	14	8.70	10
17	13	63	18	35	36	33	59	25	19	14	8.02	9.78
18	12	33	18	31	33	40	57	26	18	14	8.02	9.42
19	11	35	17	31	34	39	52	25	18	14	8.02	7.68
20	11	27	17	25	37	80	47	26	17	14	8.02	7.68
21	11	23	16	24	48	268	45	25	17	14	8.70	7.00
22	14	21	15	24	42	203	45	25	17	14	9.42	6.40
23	12	20	15	25	38	94	45	25	17	14	11	6.40
24	12	21	15	23	36	82	45	25	17	14	11	6.10
25	11	18	15	19	35	98	41	25	17	13	11	6.10
26	11	22	16	19	33	84	40	25	17	13	10	6.10
27	10	22	17	18	32	66	38	27	17	13	8.70	5.80
28	12	52	18	21	66	52	38	26	17	13	8.02	5.80
29	12	59	16	18	80	47	31	26	17	13		5.80
30	14	43	17	18	56	47	34	26	17	13		6.70
31		35		17	50		30		17	13		8.70
Total	371	1,062	802	849	1,098	1,934	2,117	854	616	454	272.04	235.08
Mean	12.4	34.2	26.7	27.4	35.4	64.4	68.2	28.5	19.5	14.6	9.71	7.58
Max.	15	104	51	53	80	268	185	47	26	17	12	10
Min.	10	16	15	17	15	33	30	24	17	13	8.02	5.80
Runoff — mcm.	32.054	91.757	69.293	73.354	94.867	167.098	182.909	73.786	53.222	39.226	23.504	20.311

WATER YEAR 1954 : Max. 268 Min. 5.80 Mean 29.2 Annual Runoff 921.380 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21	17.00	278.55	275				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

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

Location: Lat 18° – 13' – 49" N, Long 98° – 33' – 35" E, on right bank near bridge on highway Hot – Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +27.584 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: 24 – hourly readings.

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

Period of Available Gage Records: 1953 to date.

Rating Operation:

Period of Rating: 1953 – 60, 1969 – Cont'd.
Rated by Float: –
Rated by Current Meter: 1953 – 60, 1969 – Cont'd.

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

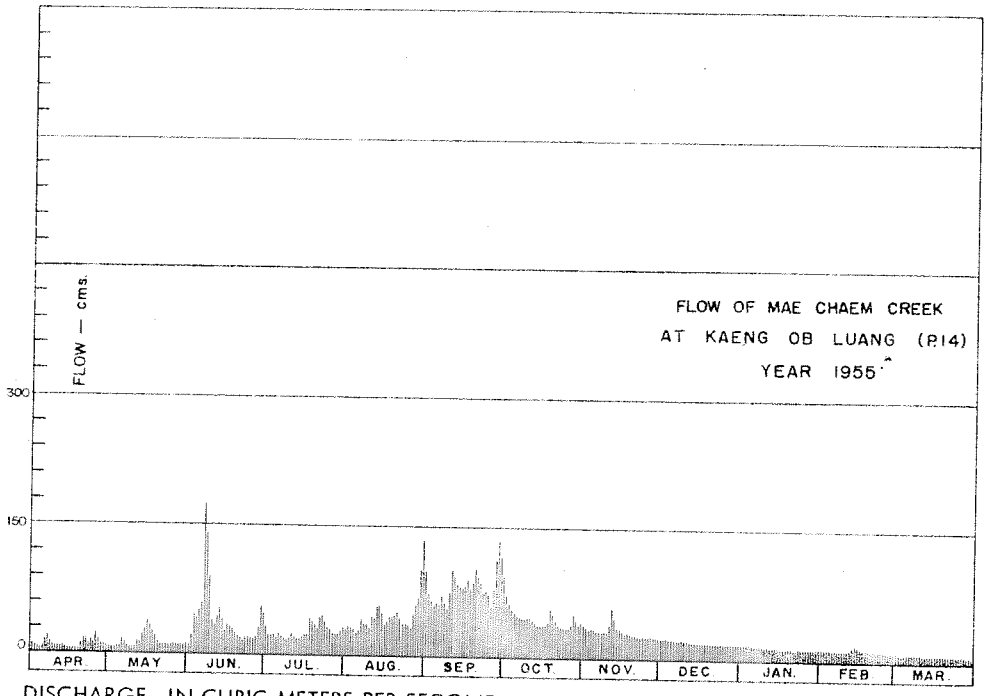
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1955. No upstream state diversion except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.56	276.52	276.66	277.02	277.04	277.70	277.73	277.15	176.90	276.76	276.64	276.52
2	.50	.48	.90	276.92	.09	.57	.54	.11	.89	.76	.64	.52
3	.48	.47	277.30	.93	.06	.47	.46	.07	.89	.75	.64	.51
4	.46	.55	.23	.95	.00	.39	.37	.09	.88	.74	.63	.51
5	.51	.53	.34	.90	276.94	.42	.34	.07	.80	.74	.63	.50
6	276.76	276.73	277.41	276.97	276.99	277.36	277.28	277.04	276.87	276.73	276.62	276.50
7	.83	.60	.58	.93	277.19	.49	.25	.03	.87	.73	.61	.49
8	.60	.52	278.34	.95	.12	.40	.23	.02	.87	.72	.61	.49
9	.54	.48	277.51	.83	.14	.37	.22	.02	.86	.71	.60	.49
10	.50	.45	.10	.86	.09	.64	.25	.03	.86	.71	.62	.48
11	276.49	276.57	277.06	276.94	277.29	277.82	277.24	277.19	276.85	276.71	276.65	276.48
12	.49	.81	.23	.86	.29	.72	.20	.40	.85	.71	.70	.47
13	.48	.80	.33	.83	.46	.65	.16	.16	.84	.71	.80	.47
14	.47	277.03	.08	.84	.47	.63	.14	.09	.84	.71	.80	.47
15	.45	.11	276.97	.92	.25	.62	.13	.06	.83	.70	.76	.47
16	276.43	277.24	277.08	276.96	277.14	277.64	277.11	277.03	276.83	276.70	276.71	276.47
17	.42	.09	.02	.97	.18	.70	.11	.04	.83	.70	.68	.47
18	.41	276.98	276.97	.94	.23	.60	.13	.03	.82	.69	.65	.46
19	.39	.82	.88	277.16	.21	.67	.30	.02	.81	.69	.62	.46
20	.66	.67	.82	.10	.25	.83	.17	.01	.81	.69	.61	.46
21	276.83	276.59	276.80	277.05	277.28	277.72	277.12	277.00	276.81	276.68	276.60	276.45
22	.83	.63	.68	.23	.18	.70	.09	276.98	.80	.68	.59	.44
23	.68	.60	.81	.25	.14	.56	.08	.97	.80	.68	.59	.44
24	.74	.59	.82	.10	.18	.64	.07	.95	.79	.67	.58	.43
25	.68	.61	.78	.06	.17	.58	.06	.94	.78	.67	.57	.42
26	276.96	276.61	276.78	277.01	277.12	277.46	277.08	276.94	276.78	276.66	276.55	276.42
27	.76	.59	.81	276.96	.34	.65	.19	.94	.77	.66	.54	.41
28	.64	.59	.97	.94	.50	.98	.34	.93	.77	.66	.53	.41
29	.64	.59	277.37	.94	.57	278.14	.19	.92	.77	.66	.53	.40
30	.55	.57	.21	277.01	.88	277.94	.17	.91	.77	.65		.39
31		.63		.05	278.14		.21		.77	.65		.39
Mean	276.59	276.68	277.09	276.98	277.25	277.63	277.22	277.04	276.83	276.69	276.63	276.46
Max.	276.96	277.24	278.34	277.25	278.14	278.14	277.73	277.40	276.90	276.76	276.80	276.52
Min.	276.39	276.45	276.66	276.83	276.94	277.36	277.06	276.91	276.77	276.65	276.53	276.39

WATER YEAR 1955 : Max. 278.34 m. Min. 276.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.10	7.90	11	29	31	82	85	37	23	17	13	9.10
2	7.30	6.74	21	23	34	69	66	34	23	17	13	8.80
3	6.48	6.48	47	23	32	62	60	32	23	17	13	8.50
4	5.96	8.80	42	24	29	58	53	34	22	16	12	8.20
5	7.30	8.50	52	21	26	62	51	33	22	16	12	8.20
6	16	16	58	25	39	60	47	31	21	15	12	8.20
7	19	11	75	22	42	70	46	31	21	15	11	8.20
8	9.70	8.20	175	19	36	61	45	31	21	15	11	8.50
9	7.90	7.00	71	18	37	57	44	31	21	15	11	8.50
10	6.74	6.22	38	20	33	81	46	31	21	15	11	8.20
11	6.48	7.60	35	25	46	100	45	41	21	14	11	7.90
12	6.48	15	46	21	45	89	41	58	21	14	13	7.60
13	6.22	13	54	19	57	82	38	38	20	14	16	7.60
14	5.70	25	34	19	59	80	37	34	19	14	17	7.60
15	5.24	30	28	23	46	79	37	31	19	13	16	7.60
16	4.55	39	35	24	37	82	37	29	19	13	14	7.60
17	4.34	31	31	25	41	88	38	29	19	13	13	7.60
18	4.13	25	29	43	46	79	41	29	19	13	13	7.30
19	3.71	18	24	38	45	85	55	28	19	13	12	7.30
20	11	12	20	34	49	102	46	27	19	13	12	7.30
21	17	9.70	19	31	52	88	40	26	19	12	12	7.00
22	17	11	15	44	42	85	37	25	18	12	11	6.74
23	11	10	20	46	37	70	35	25	18	13	12	6.74
24	14	10	21	35	38	77	34	25	18	12	12	6.48
25	11	11	19	32	36	70	32	25	17	12	11	6.22
26	23	11	19	29	33	58	33	25	17	12	11	6.22
27	14	10	20	25	49	76	39	25	17	13	10	5.70
28	10	10	28	24	62	112	50	24	17	13	9.70	5.70
29	11	9.70	56	24	69	135	39	24	17	13	9.40	5.47
30	8.50	9.10	42	29	102	108	37	23	17	13		5.24
31		11		32	135		40		17	13		5.24
Total	289.83	414.94	1,185	846	1,455	2,407	1,374	916	605	430	354.10	226.55
Mean	9.66	13.4	39.5	27.2	46.9	80.2	44.3	30.5	19.5	13.9	12.2	7.31
Max.	23	39	175	46	135	135	85	58	23	17	13	9.10
Min.	3.71	6.22	11	18	26	57	32	23	17	12	9.40	5.24
Runoff - MCM.	25.041	35.851	102.384	73.094	125.712	207.965	118.714	79.142	52.272	37.152	30.594	19.574

WATER YEAR 1955 : Max. 175 Min. 3.71 Mean 28.7 Annual Runoff 907.495 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
June 8	11.00	278.64	218				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

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

Location: Lat 18°- 13' - 49" N, Long 98°- 33' - 35" E, on right bank near bridge on highway Hot - Mae Sariang, 7.5 kilometers from Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +27.584 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: 24 - hourly readings.

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

Period of Available Gage Records: 1953 to date.

Rating Operation:

Period of Rating: 1953 - 60, 1969 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1953 - 60, 1969 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

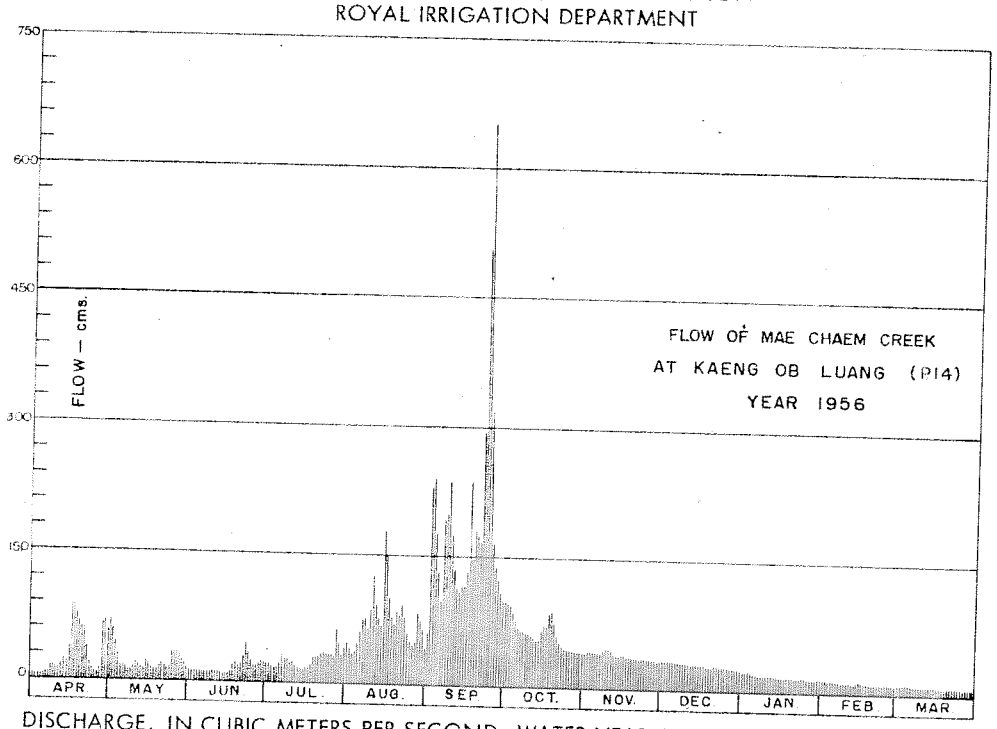
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions except those built by local residents.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.39	277.54	276.74	276.91	277.30	277.36	277.66	277.18	277.00	276.85	276.73	276.60
2	.39	.43	.73	.93	.19	278.51	.65	.18	276.99	.85	.73	.59
3	.39	.26	.73	.87	.16	.56	.63	.19	.99	.85	.72	.59
4	.40	.04	.73	.82	.20	.10	.57	.19	.98	.84	.72	.58
5	.42	276.82	.72	.83	.32	277.73	.49	.19	.98	.83	.71	.58
6	276.43	276.84	276.70	276.95	277.51	277.60	277.44	277.16	276.97	276.82	276.70	276.57
7	.43	.79	.70	277.08	.60	278.27	.40	.15	.97	.81	.69	.57
8	.72	.69	.69	.01	.61	.27	.41	.20	.96	.81	.68	.56
9	.70	.73	.69	.00	.50	.49	.39	.22	.95	.80	.68	.56
10	.67	.83	.71	.94	.74	.08	.39	.21	.95	.80	.68	.55
11	276.68	276.92	276.68	277.94	277.98	277.88	277.37	277.16	276.94	276.80	276.68	276.55
12	.79	.80	.64	.84	.68	.68	.33	.12	.94	.79	.67	.54
13	.90	.78	.63	.81	.56	.67	.30	.11	.94	.79	.67	.54
14	.81	.75	.60	.77	.48	.69	.32	.12	.94	.79	.71	.54
15	277.02	.94	.58	.78	278.34	.68	.44	.11	.94	.78	.73	.54
16	277.68	276.86	276.60	277.86	278.14	277.77	277.49	277.11	276.93	276.77	276.70	276.54
17	.67	.74	.68	.81	277.78	278.51	.57	.09	.92	.77	.68	.53
18	.57	.68	.87	.88	.61	.01	.69	.09	.91	.76	.67	.53
19	.49	.69	.90	277.01	.52	.26	.71	.07	.91	.76	.65	.53
20	.42	.81	.81	.04	.65	.24	.54	.07	.91	.76	.65	.53
21	277.46	276.86	276.89	277.07	277.61	278.24	277.43	277.06	276.91	276.76	276.64	276.53
22	.10	.76	277.10	.09	.71	279.07	.36	.05	.91	.76	.64	.53
23	276.77	.76	.24	.10	.57	280.34	.30	.05	.90	.75	.64	.53
24	.64	.80	.05	.08	.44	279.42	.28	.04	.89	.75	.63	.53
25	.56	277.13	276.89	.09	.34	278.59	.25	.04	.89	.75	.62	.52
26	276.55	277.11	276.81	277.11	277.29	278.23	277.24	277.03	276.88	276.74	276.62	276.51
27	.72	.14	.84	.09	.33	.03	.21	.03	.88	.74	.61	.50
28	277.49	.08	.87	.44	.64	277.89	.20	.01	.87	.74	.60	.50
29	.54	.01	.95	.24	.55	.78	.19	.01	.86	.74		.49
30	.44	276.88	.90	.12	.42	.69	.19	.00	.86	.74		.49
31		.81		.26	.16		.18		.86	.73		.48
Mean	276.91	276.91	276.79	277.26	277.55	278.19	277.41	277.11	276.93	276.78	276.67	276.54
Max.	277.68	277.54	277.24	277.94	278.34	280.34	277.71	277.22	277.00	276.85	276.73	276.60
Min.	276.39	276.68	276.58	276.82	277.16	277.36	277.18	277.00	276.86	276.73	276.60	276.48

WATER YEAR 1956 : Max. 280.34 m. Min. 276.39 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.40	69	13	22	49	61	98	42	34	23	16	11
2	5.40	59	13	23	39	229	96	43	33	23	16	11
3	5.40	43	13	19	36	240	93	43	33	23	15	11
4	5.60	28	13	18	39	164	84	43	33	22	15	11
5	6.00	17	13	19	49	116	74	43	33	21	15	11
6	6.20	18	12	24	65	98	68	41	32	20	15	10
7	6.20	16	12	32	76	191	64	41	32	19	14	10
8	15	12	12	28	78	190	64	45	31	19	14	10
9	14	14	12	28	66	235	62	47	31	19	14	10
10	13	18	13	24	96	161	61	46	31	19	14	9.90
11	13	22	12	25	127	132	59	42	30	19	14	9.90
12	18	17	11	19	88	109	56	39	30	19	13	9.30
13	23	16	11	17	73	110	55	38	30	19	13	9.30
14	19	14	10	16	65	115	55	39	30	19	15	9.30
15	29	23	9.90	16	178	115	65	39	30	18	15	9.30
16	89	20	11	19	149	123	70	39	30	18	14	9.30
17	88	15	13	18	102	237	71	37	29	18	13	9.00
18	76	13	21	21	80	148	85	37	28	18	13	9.00
19	67	13	23	30	70	180	88	36	28	18	12	9.00
20	60	18	19	31	85	172	68	36	29	18	12	9.00
21	63	20	23	33	80	168	57	36	29	17	12	9.00
22	33	17	34	35	93	320	50	35	29	17	12	9.00
23	17	15	45	36	74	650	46	35	28	17	12	9.00
24	12	17	31	34	60	390	45	35	28	17	11	9.00
25	9.30	34	23	34	50	207	43	35	28	17	11	8.70
26	8.70	38	19	35	44	159	43	34	27	16	11	8.50
27	14	35	20	33	50	135	42	34	27	16	11	8.20
28	65	31	22	62	83	119	42	33	27	16	10	8.20
29	70	26	26	44	74	107	41	33	26	16		8.00
30	59	19	23	34	63	98	42	33	25	16		8.00
31		16		45	42		41		24	16		7.70
Total	915.20	728	532.90	874	2,323	5,479	1,926	1,159	915	573	372	290.60
Mean	17.3	23.5	17.8	28.2	74.9	183	62.1	38.6	29.5	18.5	13.3	9.37
Max.	89	69	45	62	178	650	98	47	34	23	16	11
Min.	5.40	12	9.90	16	36	61	41	33	24	16	10	7.70
Runoff — 86 M.	79.073	62.899	46.042	75.514	200.707	473.386	166.406	100.138	79.056	49.507	32.141	25.108

WATER YEAR 1956 : Max. 650 Min. 5.40 Mean 44.1 Annual Runoff 1,389.977 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 23	11.00	280.78	860				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

Location: Lat 16°- 03' - 42" N, Long 99°- 51' - 51" E, on right bank 70 meters infront of district office of Amphoe Khanu Woralaksaburi, and about 12 kilometers from Phahon Yothin highway at Ban Salokbat, Kamphaeng Phet.

Drainage Area: 45,677 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +41.91 m. (M.S.L.)

Bench Mark:

Location: Near fence of office of Amphoe Khanu Woralaksaburi.
Elevation: +45.976 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 - 60, 1963 to date.

Rating Operation:

Period of Rating: 1960, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1960, 1967 - Cont'd.

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 measurements made during 1960. Natural flow of stream affected by state diversions for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

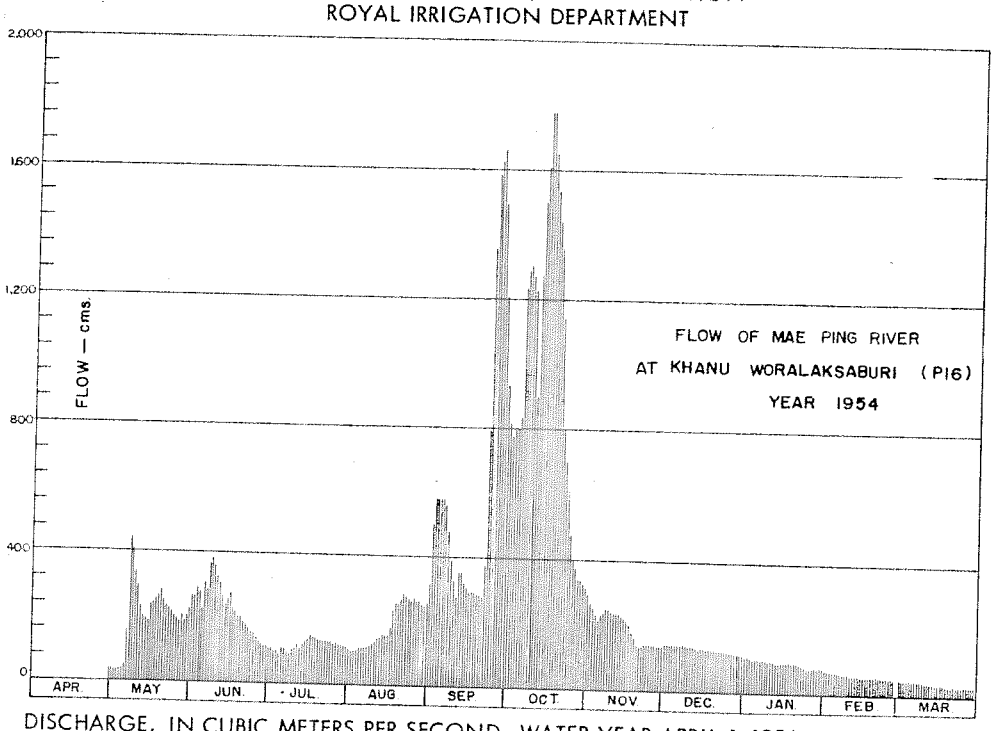
Remarks: Gage - height records began on May 1, 1954.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		42.50	43.78	43.06	43.03	43.76	45.10	43.81	43.24	43.05	42.82	42.62
2		.48	44.09	.04	.01	44.43	.06	.76	.25	.05	.81	.61
3		.50	43.87	.01	.06	.66	.10	.67	.24	.03	.80	.61
4		.52	.82	.01	.06	.66	.11	.61	.24	.00	.79	.60
5		.53	.61	42.95	.09	.66	.18	.55	.24	.02	.78	.59
6		42.63	43.90	43.07	43.10	44.65	45.77	43.62	43.23	43.01	42.76	42.58
7		43.64	.84	.06	.11	.61	.92	.66	.23	.00	.74	.57
8		44.32	44.09	42.99	.11	.38	.96	.70	.23	42.99	.73	.57
9		.17	.15	.96	.12	.17	.89	.69	.23	.99	.72	.55
10		43.95	.07	43.03	.15	43.98	.81	.66	.21	.98	.71	.55
11		43.78	43.93	43.07	43.20	43.81	45.29	43.65	43.21	42.98	42.70	42.53
12		.63	.91	.12	.26	44.06	.75	.65	.20	.97	.69	.52
13		.53	.74	.06	.27	.06	46.24	.63	.19	.96	.69	.51
14		.48	.66	.13	.31	43.92	.37	.61	.18	.95	.69	.49
15		.44	.75	.19	.30	.92	.61	.58	.17	.95	.68	.47
16		43.65	43.81	43.21	43.29	43.86	46.61	43.56	43.17	42.95	42.67	42.46
17		.69	.65	.27	.37	.86	.45	.48	.16	.95	.67	.44
18		.70	.56	.26	.64	.85	.25	.41	.16	.94	.66	.43
19		.76	.53	.24	.73	.83	.06	.31	.16	.94	.66	.41
20		.82	.53	.22	.72	.82	45.39	.21	.15	.94	.66	.41
21		43.62	43.46	43.21	43.75	43.80	45.20	43.16	43.15	42.94	44.66	42.40
22		.65	.41	.20	.82	.93	44.99	.21	.15	.91	.66	.40
23		.61	.38	.20	.81	44.95	.91	.23	.14	.91	.66	.39
24		.56	.32	.19	.78	46.05	.61	.23	.13	.86	.65	.39
25		.52	.30	.18	.75	.33	.27	.23	.13	.85	.64	.38
26		43.49	43.24	43.15	43.77	46.40	44.16	43.24	43.12	42.85	42.63	42.39
27		.46	.21	.16	.75	.46	.09	.23	.11	.85	.63	.40
28		.54	.11	.13	.74	.21	.01	.21	.11	.85	.62	.41
29		.46	.10	.12	.71	45.65	43.99	.21	.09	.84		.42
30		.52	.10	.10	.69	.28	.96	.21	.08	.84		.42
31		.63		.08	.71		.91		.08	.83		.39
Mean		43.44	43.63	43.12	43.43	44.60	46.48	43.47	43.17	42.94	42.70	42.48
Max.		44.32	44.15	43.27	43.82	46.46	46.61	43.81	43.25	43.05	42.82	42.62
Min.		42.48	43.10	42.95	43.01	43.76	43.91	43.16	43.08	42.83	42.62	42.38

WATER YEAR 1954 : Max. 46.61 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		36	270	110	105	265	794	279	143	108	73	48
2		34	265	107	102	487	773	265	144	108	71	47
3		36	296	102	110	582	794	240	143	105	70	47
4		38	282	102	110	582	799	225	143	100	69	46
5		40	225	92	115	582	836	210	143	103	67	45
6		49	305	112	117	578	1,179	227	141	102	65	44
7		232	288	110	119	560	1,278	238	141	100	62	43
8		445	365	98	119	468	1,305	248	141	98	61	43
9		392	385	94	121	392	1,257	245	141	98	60	41
10		320	358	105	126	330	1,205	238	137	97	58	41
11		270	314	112	135	279	894	235	137	97	57	39
12		230	308	121	146	355	1,166	235	135	95	56	38
13		205	259	110	148	355	1,498	230	133	94	56	37
14		193	238	122	156	311	1,592	225	131	92	56	35
15		184	256	133	154	311	1,778	217	130	92	55	33
16		235	279	137	152	293	1,778	212	130	92	54	32
17		245	235	148	168	293	1,652	193	128	92	54	31
18		248	212	146	232	290	1,595	176	128	90	53	30
19		265	205	143	256	285	1,373	156	126	90	53	28
20		282	205	139	254	282	949	137	126	90	53	28
21		227	188	137	262	276	846	128	126	90	53	27
22		235	176	135	282	314	757	137	126	86	53	27
23		225	170	135	279	717	697	141	124	86	53	26
24		212	158	133	270	1,366	560	141	122	78	51	26
25		203	154	131	262	1,562	427	141	122	77	50	26
26		196	143	126	268	1,614	388	143	121	77	49	26
27		188	137	128	262	1,660	365	141	119	77	49	27
28		208	119	122	259	1,477	359	137	119	77	48	28
29		188	117	121	251	1,103	333	137	115	76		29
30		203	117	117	245	888	324	137	114	76		27
31		230		114	251		308		114	74		26
Total		6,294	7,129	3,742	5,826	18,857	29,729	5,814	4,045	2,817	1,609	1,071
Mean		203	238	121	188	628	959	194	130	90.9	57.5	34.5
Max.		445	385	148	282	1,660	1,778	279	144	108	73	48
Min.		34	117	92	102	265	308	128	114	74	48	26
Runoff - mcm.		543.802	615.946	323.309	503.366	1,629.245	2,568.586	502.330	349.488	249.389	139.018	92.534

WATER YEAR 1954 : Max. 1,778 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 16	06.00	46.63	1,794				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

Location: Lat 16°- 03' - 42" N, Long 99°- 51' - 51" E, on right bank 70 meters infront of district office of Amphoe Khanu Woralaksaburi and about 12 kilometers from Phahon Yothin highway at Ban Salokbat, Kamphaeng Phet.

Drainage Area: 45,677 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +41.9 m. (M.S.L.)

Bench Mark: B.M. - P.16

Location: Near fence of office of Amphoe Khanu Woralaksaburi.
Elevation: +45.976 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 - 60, 1962 to date

Rating Operation:

Period of Rating: 1960, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1960, 1967 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

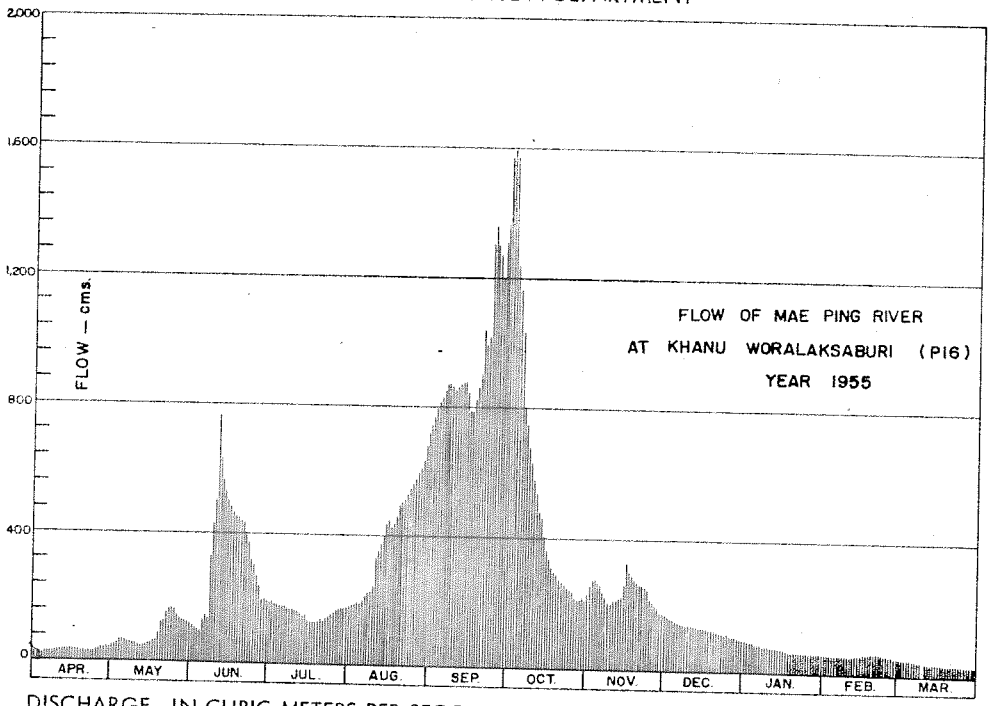
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1960. Natural flow of stream affected by state diversions for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42.39	42.66	43.09	43.48	43.44	44.99	46.34	43.63	43.36	42.97	42.68	42.59
2	.38	.68	.06	.48	.45	45.06	.38	.74	.35	.97	.68	.59
3	.37	.76	.03	.45	.46	.10	.33	.79	.32	.95	.67	.56
4	.36	.81	.01	.45	.48	.13	45.80	.80	.31	.93	.67	.56
5	.41	.81	.19	.43	.43	.16	.73	.76	.28	.91	.67	.55
6	42.41	42.78	43.26	43.43	43.52	45.20	45.56	43.73	43.26	42.88	42.66	42.53
7	.42	.75	.35	.42	.56	.25	.11	.61	.25	.88	.66	.51
8	.44	.73	.95	.41	.60	.25	.02	.57	.24	.86	.66	.51
9	.47	.72	44.27	.40	.63	.22	24.81	.51	.22	.84	.66	.50
10	.47	.70	.38	.39	.65	.21	.74	.53	.22	.84	.65	.45
11	42.48	42.64	45.04	43.36	43.98	45.23	44.66	43.55	43.21	42.83	42.64	42.44
12	.49	.64	44.71	.34	44.05	.24	.58	.56	.20	.83	.64	.42
13	.50	.67	.61	.31	.11	.25	.47	.58	.20	.81	.65	.42
14	.50	.69	.54	.29	.20	.26	.29	.60	.19	.81	.66	.41
15	.51	.72	.46	.29	.29	.20	.18	.61	.18	.79	.68	.41
16	42.39	42.74	44.41	43.21	44.32	45.09	44.05	43.96	43.18	42.78	42.69	42.41
17	.49	.76	.38	.19	.26	.07	43.97	.89	.17	.76	.69	.41
18	.47	.81	.34	.17	.30	.16	.89	.85	.15	.75	.71	.39
19	.47	.96	.34	.16	.36	.23	.86	.80	.14	.75	.71	.38
20	.47	43.14	.31	.20	.44	.26	.83	.77	.13	.73	.71	.38
21	42.46	43.17	44.29	43.22	44.47	45.54	43.78	43.74	43.11	42.73	42.70	42.38
22	.46	.31	.16	.21	.50	.47	.76	.72	.11	.73	.70	.37
23	.44	.37	.11	.24	.55	.47	.73	.71	.09	.72	.70	.37
24	.47	.37	43.96	.29	.58	.94	.70	.69	.07	.71	.69	.36
25	.48	.35	.91	.31	.60	46.04	.68	.56	.07	.71	.68	.36
26	42.55	43.23	43.77	43.33	44.64	45.94	43.65	43.53	43.05	42.71	42.67	42.35
27	.57	.21	.63	.36	.69	.88	.58	.50	.04	.70	.64	.34
28	.58	.20	.51	.38	.71	.79	.55	.48	.04	.70	.61	.34
29	.61	.18	.51	.40	.73	.95	.57	.41	.02	.69	.60	.33
30	.61	.16	.50	.41	.85	46.02	.59	.39	.00	.69		.33
31		.14		.42	.92		.56		42.98	.69		.32
Mean	42.47	42.91	43.94	43.34	44.15	45.39	44.44	43.65	43.16	42.79	42.67	42.43
Max.	42.61	43.37	45.04	43.48	44.92	46.04	46.38	43.96	43.36	42.97	42.71	42.59
Min.	42.36	42.64	43.01	43.16	43.43	44.99	43.55	43.39	42.98	42.69	42.60	42.32

WATER YEAR 1955 : Max. 46.38 m. Min. 42.32 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	53	115	193	184	737	1,570	230	166	95	55	45
2	26	55	110	193	186	773	1,599	259	164	95	55	45
3	25	65	105	186	188	794	1,562	273	158	92	54	42
4	24	71	102	186	193	810	1,198	276	156	89	54	42
5	28	71	133	181	181	825	1,153	265	150	86	54	41
6	28	67	146	181	203	846	1,048	256	146	81	53	39
7	29	63	164	179	212	872	799	225	144	81	53	37
8	31	61	320	176	222	872	752	215	143	78	53	37
9	33	60	427	174	230	857	651	200	139	76	53	36
10	33	57	468	172	235	851	618	205	139	76	51	31
11	34	50	763	166	330	862	582	210	137	74	50	31
12	35	50	605	162	352	867	548	212	135	74	50	29
13	36	54	560	156	371	872	502	217	135	71	51	29
14	36	56	531	152	402	878	434	222	133	71	53	28
15	37	60	498	152	434	846	395	225	131	69	55	28
16	35	62	479	137	445	789	352	324	131	67	56	28
17	35	65	468	133	424	778	326	302	130	65	56	28
18	33	71	453	130	438	825	302	290	126	63	58	26
19	33	94	453	128	460	862	293	276	124	63	58	26
20	33	124	442	135	491	878	285	268	122	61	58	26
21	32	130	434	139	502	1,036	270	259	119	61	57	26
22	32	156	388	137	514	995	265	254	119	61	57	25
23	31	168	371	143	535	995	256	251	115	60	57	25
24	33	168	324	152	548	1,291	248	245	112	58	51	24
25	34	164	308	156	556	1,359	243	212	112	58	55	24
26	41	143	268	160	574	1,291	235	205	108	58	54	23
27	43	137	230	166	596	1,251	217	198	107	57	50	23
28	44	135	200	170	605	1,192	210	193	107	57	47	23
29	47	131	200	174	614	1,298	215	176	103	56	46	22
30	47	128	198	176	669	1,346	220	172	100	56		22
31		124		176	702		212		97	56		21
Total	1,014	2,893	10,263	5,024	12,596	28,748	17,560	7,115	4,008	2,165	1,559	932
Mean	33.8	93.3	342	162	406	958	566	237	129	69.8	53.7	30.1
Max.	47	168	763	193	702	1,359	1,599	324	166	95	58	45
Min.	24	50	102	128	181	737	210	172	97	56	46	21
Runoff — MCM.	876.610	249.955	886.723	434.074	1,088.294	2,483.827	1,517.184	614.736	346.291	187.056	134.698	80.524

WATER YEAR 1955 : Max. 1,599 Min. 21 Mean 256 Annual Runoff 8,110.973 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	12.00	46.38	1,599				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Ping River at Khanu Woralaksaburi, Kamphaeng Phet (P.16)

Location: Lat 16°- 03' - 42" N, Long 99°- 51' - 51" E, on right bank 70 meters infront of district office of Amphoe Khanu Woralaksaburi and about 12 kilometers from Phahon Yothin highway at Ban Salokbat, Kamphaeng Phet.

Drainage Area: 45,677 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +41.9 m. (M.S.L.)

Bench Mark: B.M. - P.16

Location: Near fence of office of Amphoe Khanu Woralaksaburi.
Elevation: +45.975 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 - 60, 1962 to date.

Rating Operation:

Period of Rating: 1960, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1960, 1967 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

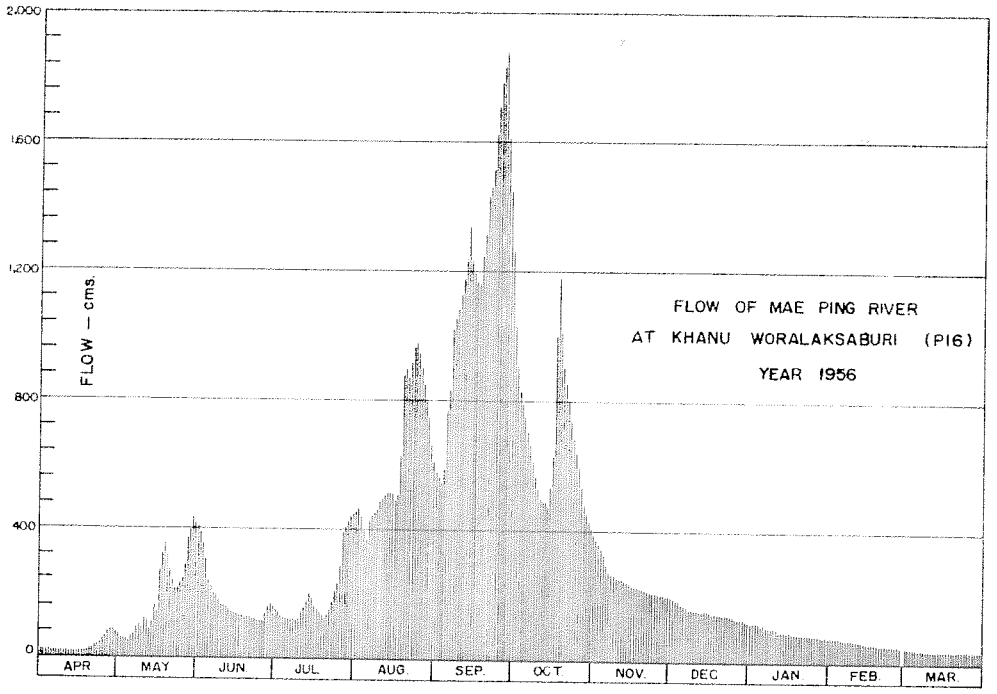
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1960. Natural flow of stream affected by state diversions for irrigation of about 33,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42.31	42.80	44.21	43.30	44.36	44.67	45.54	44.14	43.49	43.11	42.85	42.61
2	.31	.73	.16	.24	.38	.62	.26	.10	.47	.10	.84	.61
3	.31	.70	43.96	.19	.31	.59	.17	.06	.46	.09	.83	.60
4	.30	.69	.80	.16	.16	.67	.09	.00	.43	.08	.83	.60
5	.29	.63	.66	.15	.11	45.04	44.99	43.94	.41	.06	.81	.56
6	42.28	42.76	43.59	43.15	44.28	45.18	44.91	43.81	43.38	43.06	42.80	42.54
7	.28	.83	.49	.14	.32	.49	.84	.78	.36	.04	.80	.54
8	.27	.97	.49	.13	.35	.57	.69	.76	.33	.03	.79	.53
9	.26	.98	.41	.12	.39	.62	.61	.75	.33	.03	.79	.53
10	.26	.95	.36	.16	.44	.67	.50	.73	.32	.02	.78	.53
11	42.26	43.12	43.35	43.27	44.47	45.75	44.47	43.72	43.32	43.01	42.76	42.52
12	.25	.11	.31	.34	.49	.85	.45	.71	.31	42.96	.76	.52
13	.25	42.91	.27	.43	.50	46.01	.44	.70	.31	.96	.75	.52
14	.25	43.07	.25	.53	.51	45.83	.41	.68	.30	.95	.74	.51
15	.24	.37	.22	.46	.49	.78	.56	.65	.29	.94	.71	.50
16	42.24	43.21	43.21	43.31	44.14	45.74	44.80	43.64	43.29	42.94	42.71	42.51
17	.25	.81	.20	.30	.50	.74	45.51	.62	.26	.92	.70	.52
18	.27	.95	.18	.26	.76	.86	.77	.62	.26	.92	.70	.51
19	.36	44.06	.16	.21	45.26	.96	.56	.61	.26	.91	.67	.51
20	.38	43.94	.16	.20	.30	46.12	.30	.60	.25	.90	.67	.50
21	42.43	43.77	43.15	43.24	45.25	46.17	45.18	43.59	43.25	42.89	42.67	42.50
22	.53	.67	.14	.31	.31	.25	.09	.57	.25	.89	.66	.50
23	.55	.57	.13	.43	.41	.42	44.93	.55	.24	.88	.65	.49
24	.62	.59	.12	.57	.44	.52	.87	.54	.23	.88	.65	.49
25	.72	.65	.11	.66	.36	.61	.78	.54	.21	.88	.65	.50
26	42.80	43.72	43.11	43.87	45.30	46.67	44.70	43.53	43.20	42.87	42.64	42.48
27	.90	.87	.24	44.17	.19	.73	.50	.52	.18	.87	.64	.48
28	.92	44.17	.35	.23	.09	.41	.40	.52	.16	.86	.62	.47
29	.90	.21	.39	.26	44.96	.13	.31	.51	.16	.86		.47
30	.85	.29	.33	.31	.81	45.85	.26	.51	.13	.86		.47
31		.23		.34	.73		.19		.11	.85		.46
Mean	42.43	43.40	43.22	43.46	44.73	45.78	44.78	43.70	43.29	42.95	42.73	42.52
Max.	42.92	44.29	44.21	44.34	45.44	46.73	45.77	44.14	43.49	43.11	42.85	42.61
Min.	42.24	42.63	43.11	43.12	44.11	44.59	44.19	43.51	43.11	42.85	42.62	42.46

WATER YEAR 1956 : Max. 46.73 m. Min. 42.24 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	70	406	154	460	578	1,036	382	196	119	77	47
2	21	61	388	143	468	565	878	368	191	117	76	47
3	21	57	324	133	442	552	830	355	188	115	74	46
4	20	56	276	128	568	587	789	336	181	114	74	46
5	19	49	238	126	371	763	737	317	176	110	71	42
6	19	65	220	126	431	836	697	279	170	110	70	40
7	19	74	196	124	445	1,006	664	270	166	107	70	40
8	18	95	196	122	456	1,054	596	265	160	105	69	39
9	18	97	176	121	471	1,084	560	262	160	105	69	39
10	18	92	166	128	491	1,115	514	256	158	105	67	39
11	18	121	164	148	502	1,166	502	254	158	102	65	38
12	17	119	156	162	510	1,231	494	251	156	94	65	38
13	17	86	148	181	514	1,339	491	248	156	94	63	38
14	17	112	144	205	518	1,218	479	243	154	92	62	37
15	16	168	139	188	510	1,185	539	235	152	90	58	36
16	16	137	137	156	491	1,160	646	232	152	90	58	37
17	17	279	135	154	514	1,160	1,018	227	146	87	57	38
18	18	320	131	146	628	1,238	1,179	227	146	87	57	37
19	24	355	128	137	878	1,305	933	225	146	86	54	37
20	26	317	128	130	899	1,414	899	222	144	84	54	36
21	30	268	126	143	872	1,449	836	220	144	83	54	36
22	39	240	124	156	905	1,505	789	215	144	83	53	36
23	41	215	122	181	961	1,629	707	210	143	81	51	35
24	48	228	121	215	978	1,706	678	208	141	81	51	35
25	60	235	119	238	935	1,778	637	208	157	81	51	36
26	70	254	119	296	899	1,826	600	205	135	80	50	34
27	84	296	143	392	841	1,874	514	203	131	80	50	34
28	87	392	164	413	789	1,622	475	203	128	78	48	33
29	84	406	172	424	722	1,421	442	200	128	78		33
30	77	434	160	442	661	1,231	424	200	122	78		33
31		413		453	614		399		119	77		32
Total	1,000	6,103	5,366	6,265	19,552	36,606	20,982	7,526	4,728	2,891	1,718	1,172
Mean	33.3	197	179	202	631	1,220	677	251	152	93.2	61.3	37.8
Max.	87	434	406	453	578	1,874	1,179	382	196	119	77	47
Min.	16	49	119	121	371	552	399	200	119	77	48	32
Runoff — mcm.	86.400	527.299	463.622	541.296	1,689.293	3,162.758	1,812.845	650.246	408.499	249.782	148.435	101.261

WATER YEAR 1956 : Max. 1,874 Min. 16 Mean 312 Annual Runoff 9,841.738 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 27	18.00	46.74	1,882				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Ping River at Banphot Phisai, Nakhon Sawan (P.17)

Location: Lat 15° – 56' – 02" N, Long 99° – 58' – 49" E, on right bank about 300 meters upstream from District office, Tambon Som Sieo, Amphoe Banphot Phisai, Nakhon Sawan.

Drainage Area: 45,851 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +32.94 m. (M.S.L.)

Bench Mark: B.M. No.1

Location: At post of transmission line near gage site.
Elevation: +37.522 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: 1967 – Cont'd.
Rated by Float: –
Rated by Current Meter: 1967 – Cont'd.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for dry period which are poor. Stage – discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

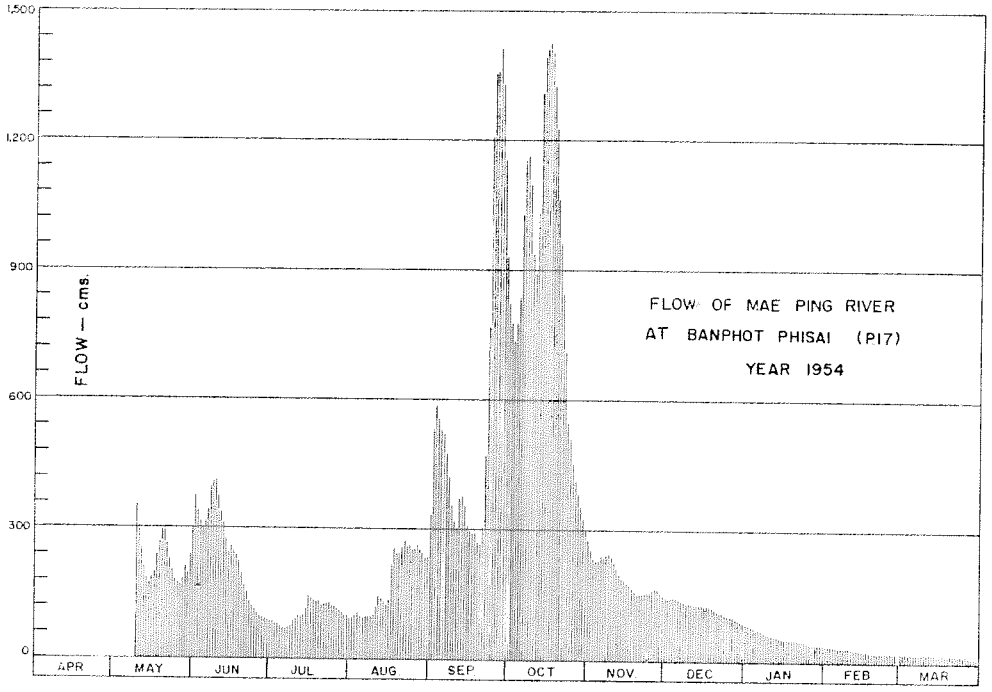
Remarks: Stream gaging began on May 10.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			35.27	34.25	34.32	35.18	36.74	35.20	34.62	34.24	33.84	33.63
2			.58	.24	.33	36.03	.68	.15	.62	.23	.83	.63
3			.44	.22	.35	.22	.59	.05	.61	.22	.83	.63
4			.36	.22	.38	.15	.70	.03	.61	.19	.82	.62
5			.30	.18	.34	.06	.89	.00	.61	.17	.82	.62
6			35.36	34.14	34.32	36.03	37.26	35.08	34.60	34.14	33.82	33.62
7			.41	.14	.34	35.95	.42	.04	.58	.12	.81	.62
8			.63	.17	.34	.78	.44	.08	.55	.11	.81	.62
9			.69	.17	.34	.53	.33	.09	.54	.08	.80	.62
10		35.51	.70	.25	.37	.37	.03	.05	.54	.05	.79	.62
11		35.33	35.53	34.29	34.50	35.32	36.94	35.00	34.54	34.04	33.78	33.62
12		.07	.42	.35	.61	.56	37.18	34.93	.55	.02	.77	.62
13		34.89	.34	.35	.58	.58	.64	.88	.53	.01	.76	.61
14		.83	.18	.38	.55	.51	.76	.83	.52	33.99	.75	.61
15		.76	.06	.47	.51	.34	.79	.81	.52	.99	.74	.61
16		34.77	35.14	34.62	34.57	35.29	37.81	34.79	34.51	33.98	33.72	33.61
17		.89	.11	.60	.97	.26	.78	.76	.51	.98	.71	.60
18		35.05	.06	.56	35.13	.26	.67	.72	.50	.97	.69	.60
19		.16	34.98	.55	.07	.19	.53	.67	.49	.96	.68	.59
20		.29	.87	.56	.09	.17	.16	.65	.47	.96	.66	.59
21		35.28	34.75	34.50	35.14	35.35	37.02	34.66	34.45	33.96	33.65	33.58
22		.16	.65	.52	.20	.64	36.74	.66	.43	.94	.65	.57
23		34.97	.56	.51	.15	36.54	.47	.66	.42	.93	.64	.56
24		.90	.49	.52	.16	37.48	.05	.67	.40	.92	.64	.55
25		.78	.42	.48	.12	.71	35.96	.68	.39	.90	.64	.53
26		34.76	34.39	34.47	35.13	37.73	35.81	34.71	34.37	33.89	33.64	33.53
27		.74	.33	.44	.17	.79	.67	.72	.35	.88	.63	.50
28		.82	.32	.41	.12	.67	.58	.71	.33	.87	.63	.49
29		.94	.29	.38	.09	.39	.48	.67	.32	.86		.48
30		.82	.27	.37	.04	.00	.39	.64	.29	.86		.46
31		35.00		.34	.05		.31		.27	.85		.45
Mean			35.03	34.37	34.75	36.07	36.80	34.85	34.48	34.01	33.73	33.58
Max.			35.70	34.62	35.20	37.79	37.81	35.20	34.62	34.24	33.84	33.63
Min.			34.27	34.14	34.32	35.17	35.31	34.64	34.27	33.85	33.63	33.45

WATER YEAR 1954 : Max. 37.81 m. Min. – m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			292	86	96	269	793	274	147	85	37	19
2			378	85	97	520	767	256	147	71	36	19
3			338	82	100	588	731	236	145	82	36	19
4			316	82	105	562	775	232	145	78	35	18
5			300	77	99	531	860	225	145	75	35	18
6			316	72	96	520	1,051	243	143	72	35	18
7			330	72	99	493	1,151	234	139	69	34	18
8			393	75	99	439	1,164	243	134	68	34	18
9			411	75	99	364	1,094	246	132	64	33	18
10		358	414	86	103	319	926	236	132	61	32	18
11		308	364	92	125	305	884	225	132	60	31	18
12		241	333	100	145	372	1,004	209	130	57	30	18
13		200	311	100	139	378	1,303	198	130	56	29	18
14		187	269	105	134	358	1,390	187	129	54	28	18
15		172	239	120	127	311	1,412	182	129	54	28	18
16		174	258	147	138	297	1,427	178	127	53	26	18
17		200	251	143	218	290	1,405	172	127	53	25	17
18		236	239	136	256	290	1,324	165	125	51	23	17
19		264	220	134	241	271	1,225	156	123	50	23	16
20		297	195	136	246	266	993	152	120	50	21	16
21		295	170	125	258	313	922	154	116	49	20	16
22		284	152	129	274	396	793	154	113	48	20	15
23		218	136	127	261	711	683	154	111	47	20	15
24		202	123	129	264	1,191	527	156	108	45	20	14
25		176	111	122	253	1,352	497	157	106	43	20	13
26		172	106	120	256	1,367	448	163	103	42	20	13
27		169	97	115	266	1,412	405	165	100	41	19	11
28		184	96	110	253	1,324	378	163	97	40	19	10
29		211	92	105	246	1,132	349	156	96	39		10
30		195	89	103	234	912	324	150	92	39		9.00
31		225		99	236		303		89	38		8.50
Total			7,066	3,160	5,563	17,142	27,308	5,821	3,812	1,734	769	491
Mean			235	102	179	571	881	194	123	56	27.5	15.8
Max.			414	147	274	1,412	1,427	274	147	85	37	19
Min.			89	72	96	266	303	150	89	38	19	8.50
Runoff - mcm.			610.502	273.024	480.645	1,481.069	2,359.411	502.934	329.357	149.818	66.442	42.422

WATER YEAR 1954 · Max. 1,427 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 16	06.00	37.81	1,427				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Ping River at Banphot Phisai, Nakhon Sawan (P.17)

Location: Lat 15°- 56' - 02" N, Long 99°- 58' - 49" E, on right bank about 300 meters upstream from District office, Tambon Som Sieo, Amphoe Banphot Phisai, Nakhon Sawan.

Drainage Area: 45,851 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +32.94 m. (M.S.L.)

Bench Mark: B.M. No.1

Location: At post of transmission line near gage site.
Elevation: +37.522 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: May 10, 1954 to date

Rating Operation:

Period of Rating: 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1967 - Cont'd.

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

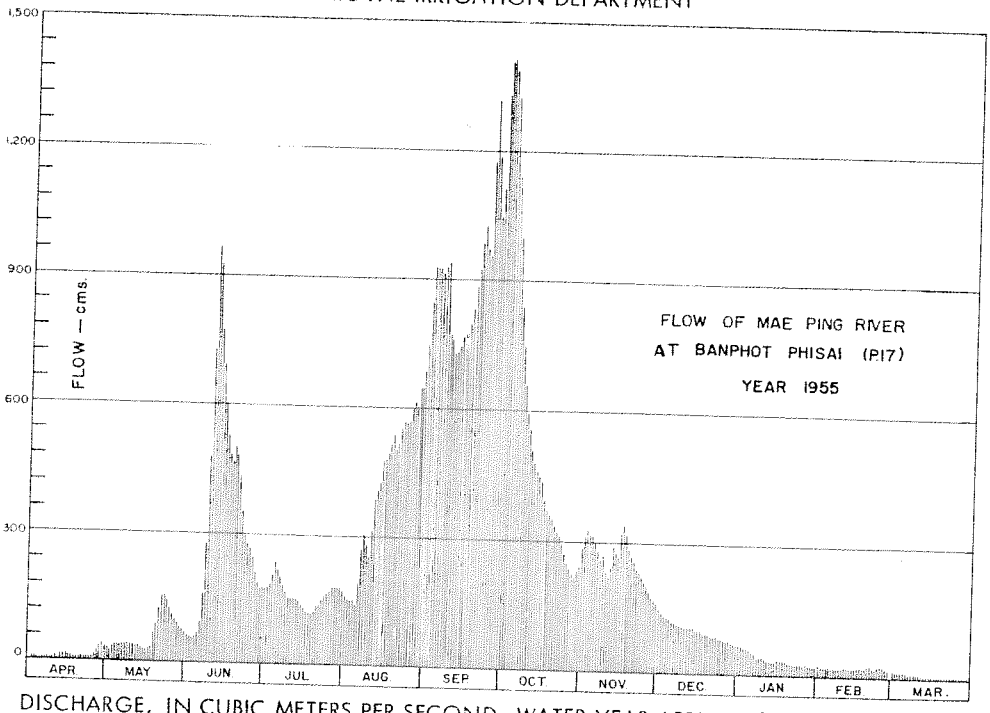
Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for dry period which are poor. Stage - discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33.42	33.79	34.06	34.78	34.68	36.67	37.78	35.14	34.59	34.09	33.69	33.59
2	.41	.72	.03	.79	.65	.73	.79	.31	.57	.09	.68	.57
3	.39	.79	.02	.83	.65	37.03	.74	.40	.54	.06	.66	.55
4	.38	.84	.06	.93	.65	.03	.68	.36	.52	.04	.66	.54
5	.36	.87	.12	35.05	.59	.02	.43	.35	.48	.01	.65	.53
6	33.36	33.86	34.35	34.94	34.90	37.00	37.16	35.28	34.46	33.97	33.65	33.52
7	.34	.85	.73	.87	35.17	.02	36.85	.20	.44	.97	.65	.49
8	.36	.86	35.26	.78	.32	.05	.62	.12	.43	.86	.64	.47
9	.37	.89	.86	.72	.18	36.75	.38	.06	.41	.89	.64	.47
10	.40	.88	36.39	.66	.11	.64	.24	.02	.41	.88	.64	.44
11	33.45	33.84	37.11	34.65	35.39	36.58	36.12	34.98	34.39	33.83	33.66	33.41
12	.48	.82	36.97	.65	.61	.59	35.97	.97	.38	.82	.67	.40
13	.53	.82	.69	.65	.69	.62	.90	35.26	.38	.82	.67	.40
14	.54	.79	.38	.63	.74	.68	.84	.20	.37	.80	.67	.39
15	.54	.76	.17	.56	.89	.69	.80	.15	.35	.75	.67	.37
16	33.50	33.76	36.03	34.52	35.89	36.70	35.76	35.38	34.35	33.85	33.67	33.37
17	.48	.77	35.89	.47	.90	.75	.61	.45	.34	.82	.67	.36
18	.45	.80	.87	.46	36.00	.83	.53	.35	.31	.81	.69	.36
19	.44	34.07	.97	.45	.08	.93	.51	.25	.30	.81	.69	.35
20	.44	.31	.85	.48	35.97	37.02	.48	.18	.29	.76	.71	.35
21	33.43	34.48	35.58	34.55	36.03	37.15	35.41	35.10	34.26	33.75	33.73	33.35
22	.42	.66	.42	.56	.11	.11	.36	.06	.26	.74	.77	.34
23	.42	.67	.23	.65	.17	.13	.34	.02	.24	.74	.77	.33
24	.40	.59	.20	.69	.16	.09	.28	34.97	.21	.73	.76	.33
25	.40	.47	.15	.72	.17	.39	.18	.91	.21	.73	.73	.32
26	33.51	34.37	35.08	34.76	36.25	37.66	35.10	34.85	34.19	33.72	33.72	33.32
27	.69	.32	34.94	.79	.29	.49	.03	.80	.18	.71	.69	.31
28	.82	.27	.83	.80	.27	.24	34.99	.76	.18	.70	.66	.30
29	.85	.19	.77	.80	.36	.30	.96	.73	.15	.70	.61	.30
30	.81	.16	.78	.79	.38	.64	35.00	.67	.13	.70		.29
31		.11		.75	.50		.07		.10	.70		.29
Mean	33.48	34.04	35.23	34.70	35.54	36.98	36.00	35.11	34.34	33.81	33.71	33.40
Max.	33.85	34.67	37.11	35.05	36.50	37.66	37.79	35.45	34.59	34.09	33.77	33.59
Min.	33.34	33.72	34.02	34.45	34.59	36.58	34.96	34.67	34.10	33.70	33.61	33.29

WATER YEAR 1955 : Max. 37.79 m. Min. 33.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.00	32	62	176	157	763	1,405	258	141	66	29	16
2	6.90	26	59	178	152	788	1,412	303	136	66	23	15
3	5.70	32	57	187	152	926	1,375	327	132	62	21	14
4	5.40	37	62	209	152	926	1,331	316	129	60	21	13
5	4.80	40	69	236	141	922	1,158	313	122	56	20	13
6	4.80	39	100	211	202	912	995	295	118	51	20	12
7	4.20	38	167	195	266	922	842	274	115	51	20	10
8	4.80	39	230	176	305	936	743	253	113	39	20	9.50
9	5.10	42	464	165	269	797	648	239	110	42	20	9.50
10	6.00	41	652	154	251	751	595	230	110	41	20	8.00
11	9.50	37	965	152	324	727	552	220	106	36	21	6.50
12	10	35	898	152	387	731	500	218	105	35	22	6.00
13	13	35	771	152	411	743	471	280	105	35	22	6.00
14	15	32	648	148	426	767	458	274	103	33	21	5.70
15	13	29	569	136	474	771	445	261	100	28	21	5.10
16	11	28	520	129	474	775	433	322	100	38	22	5.10
17	10	30	474	120	477	797	387	341	99	35	22	4.80
18	8.50	35	467	118	510	833	364	313	94	34	23	4.80
19	8.00	63	560	116	558	879	358	287	93	34	25	4.50
20	8.00	94	461	122	500	922	349	269	92	29	25	4.50
21	7.50	122	378	134	520	982	330	248	87	28	27	4.50
22	7.00	134	333	136	548	965	316	239	87	28	30	4.20
23	7.00	156	282	152	569	976	311	230	85	28	30	3.90
24	6.00	141	274	159	566	955	294	218	80	27	29	3.90
25	2.00	120	261	165	569	1,152	269	204	80	27	27	3.60
26	12	103	243	172	599	1,317	248	191	78	26	26	3.60
27	23	96	211	178	614	1,197	232	180	77	25	23	3.30
28	35	89	187	180	607	1,039	223	172	77	24	21	3.00
29	38	78	174	180	641	1,075	216	167	75	24	18	3.00
30	34	74	176	178	648	1,303	225	156	71	24		2.80
31		68		170	695		241		67	24		2.80
Total	333.80	1,983	10,774	5,036	15,144	27,528	17,724	7,608	3,087	1,156	667	211.60
Mean	11.1	64.0	359	162	424	918	572	254	99.6	37.3	23.0	6.82
Max.	38	156	965	236	695	1,317	1,412	341	141	66	30	16
Min.	4.20	26	57	116	141	727	216	156	67	24	18	2.80
Runoff — mcm.	28.840	171.331	930.874	435.110	1,135.642	2,378.419	1,531.353	657.331	266.717	99.878	57.629	18.282

WATER YEAR 1955 : Max. 1,412 Min. 2.40 Mean 244 Annual Runoff 7,710.751 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	06.00	37.80	1,420				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PING RIVER BASIN

Mae Ping River at Banphot Phisai, Nakhon Sawan (P.17)

Location: Lat 15°- 56' - 02" N, Long 99°- 58' - 49" E, on right bank about 300 meters upstream from district office, Tambon Som Sieo, Amphoe Banphot Phisai, Nakhon Sawan.

Drainage Area: 45,851 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +32.94 m. (M.S.L.)

Bench Mark: B.M. No.1

Location: At post of transmission line near gage site.
Elevation: +37.522 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: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

Overbank Flow Conditions: No overbank flow.

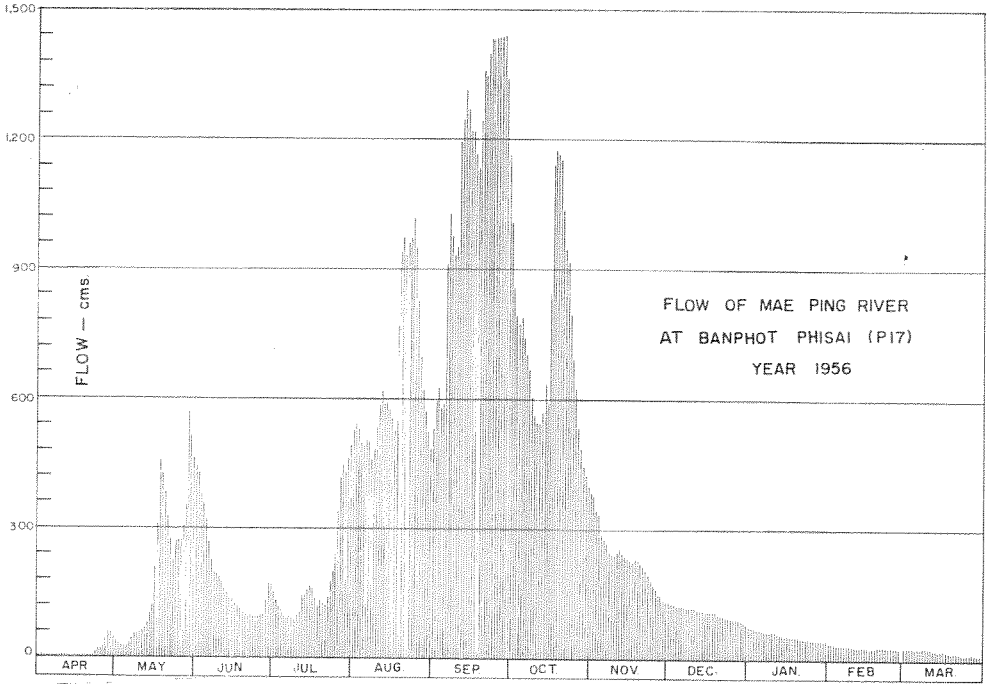
General Description: Records fair except those for dry period which are poor. Stage - discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33.30	33.82	35.78	34.63	36.04	35.95	37.14	35.59	34.53	34.17	33.86	33.71
2	.30	.76	.75	.54	.09	36.23	36.80	.56	.52	.14	.84	.71
3	.28	.71	.58	.46	.06	.32	.72	.45	.50	.12	.84	.71
4	.28	.70	.48	.36	35.95	.19	.69	.42	.49	.11	.83	.70
5	.28	.71	.34	.29	.94	.23	.73	.24	.48	.11	.80	.70
6	33.27	33.82	35.09	34.29	35.99	36.96	36.60	35.20	34.48	34.10	33.79	33.70
7	.27	.91	34.96	.32	.97	37.22	.52	.17	.47	.09	.79	.71
8	.26	.99	.87	.32	.84	.10	.40	.10	.46	.08	.78	.71
9	.26	34.01	.86	.31	.85	.04	.25	.06	.46	.07	.77	.70
10	.25	.03	.83	.32	36.06	.10	.15	.06	.46	.06	.76	.69
11	33.25	34.05	34.75	34.37	36.19	37.33	36.10	35.08	34.45	34.05	33.75	33.68
12	.25	.11	.68	.60	.30	.56	.09	.12	.44	.04	.74	.65
13	.25	.21	.61	.61	.22	.64	.12	.06	.43	.02	.74	.64
14	.25	.32	.56	.68	.23	.60	.34	.04	.43	.01	.73	.61
15	.24	.49	.55	.73	.19	.52	.22	.03	.42	.00	.73	.63
16	33.24	34.70	34.49	34.68	36.10	37.52	36.64	35.00	34.41	33.98	33.72	33.61
17	.25	35.27	.45	.53	.04	.44	37.39	.00	.41	.97	.72	.60
18	.25	.84	.44	.46	.54	.39	.45	.02	.40	.96	.72	.58
19	.25	.70	.39	.55	37.03	.53	.44	.01	.40	.96	.73	.57
20	.26	.56	.33	.50	.12	.72	.42	34.98	.38	.95	.74	.55
21	33.29	35.30	34.31	34.47	37.04	37.70	37.19	34.95	34.36	33.94	33.74	33.53
22	.30	.11	.33	.56	.10	.77	.06	.91	.35	.94	.74	.51
23	.45	.00	.32	.79	.13	.82	36.98	.86	.34	.93	.73	.49
24	.65	.18	.32	.94	.20	.84	.74	.80	.32	.92	.73	.48
25	.65	.18	.33	35.07	.06	.86	.51	.73	.32	.91	.72	.48
26	33.67	35.19	34.34	35.38	36.78	37.86	36.25	34.69	34.30	33.90	33.72	33.47
27	.91	.32	.35	.68	.47	.87	.07	.64	.29	.90	.71	.46
28	34.01	.50	.56	.81	.27	.87	35.91	.61	.28	.90	.71	.45
29	.02	36.17	.74	.75	.17	.73	.83	.56	.26	.89		.44
30	33.92	35.89	.74	.86	.04	.41	.73	.54	.24	.89		.43
31		.83		.92	35.91		.64		.21	.89		.42
Mean	33.40	34.72	34.74	34.77	36.35	37.31	36.55	35.02	34.40	34.00	33.76	33.59
Max.	34.02	36.17	35.78	35.92	37.20	37.87	37.45	35.59	34.53	34.17	33.86	33.71
Min.	33.24	33.70	34.31	34.29	35.84	35.95	35.64	34.54	34.21	33.89	33.71	33.42

WATER YEAR 1956 : Max. 37.87 m. Min. 33.24 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	.00	26	439	148	524	493	982	381	130	75	39	25
2	.00	29	429	132	541	591	820	372	129	72	37	25
3	.60	25	378	118	551	626	784	341	125	69	37	25
4	.60	24	349	102	493	576	771	333	123	68	36	24
5	2.60	25	311	92	490	591	788	284	122	68	33	24
6	2.40	35	245	92	507	893	735	274	122	67	32	24
7	2.40	44	216	96	500	1,027	705	266	120	66	32	25
8	2.20	54	195	96	458	960	656	248	118	64	31	25
9	2.20	56	193	94	461	931	599	239	118	63	30	24
10	2.00	59	187	96	531	960	562	239	118	62	29	23
11	2.00	61	170	103	576	1,094	545	243	116	61	28	23
12	2.00	68	157	143	618	1,246	541	253	115	60	28	20
13	2.00	80	145	145	588	1,303	552	239	113	57	28	20
14	2.00	96	136	157	591	1,275	633	234	113	56	27	18
15	1.80	123	134	167	576	1,218	588	232	111	55	27	19
16	1.80	161	123	157	545	1,218	751	225	110	53	26	18
17	2.00	292	116	130	524	1,164	1,132	225	110	51	26	17
18	2.00	458	115	118	711	1,132	1,171	230	108	50	26	16
19	2.00	414	106	134	926	1,225	1,164	227	108	50	27	15
20	2.20	372	97	125	971	1,360	1,151	220	105	49	28	14
21	2.80	300	94	120	931	1,345	1,009	213	102	48	28	13
22	3.00	251	97	136	960	1,397	941	204	100	48	28	12
23	8.50	225	96	178	976	1,429	903	193	99	47	27	10
24	20	269	96	211	1,015	1,431	793	180	96	45	27	10
25	20	269	97	241	941	1,434	699	168	96	44	26	10
26	22	271	99	322	811	1,434	599	159	93	43	26	9.50
27	44	305	100	408	683	1,435	534	150	92	43	25	9.00
28	56	355	136	448	607	1,435	480	145	90	43	25	8.50
29	57	569	169	429	569	1,367	454	136	87	42		8.00
30	45	473	169	464	524	1,145	423	132	85	42		7.50
31		455		484	480		396		80	42		7.00
Total	323.10	6,253	5,394	5,886	20,159	33,735	22,859	6,985	3,354	1,703	819	528.50
Mean	10.8	202	180	189	650	1,124	737	233	108	54.9	29.2	17.0
Max.	57	569	439	484	1,015	1,435	1,171	381	130	75	39	25
Min.	1.80	24	94	92	458	493	396	132	80	42	25	7.00
Runoff — mcm.	27.915	540.259	466.042	508.550	1,741.737	2,914.704	1,975.018	603.504	289.786	147.139	70.762	45.662

WATER YEAR 1956 : Max. 1,435 Min. 1.80 Mean 296 Annual Runoff 9,331.079 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.28	06.00	37.88	1,436				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PING RIVER BASIN

Mae Ping River at Wutthikun Bridge, Tak (P.18)

Location: Lat 16°- 40' - 57" N, Long 99°- 16' - 40" E, at abutment of Wutthikun Bridge, 500 meters downstream from confluence with Khlong Wang Chao, Amphoe Muang, Tak.

Drainage Area: 40,273 sq.km.

Type of Gage: Staff gage.

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

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 3, 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 3 and 5 readings.

Period of Available Gage Records: 1954 - 55, 1957 - 60, 1965 - Cont'd.

Rating Operation:

Period of Rating: 1954 - 1955
Rated by Float: -
Rated by Current Meter: 1954 - 1955

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to inadequate of measuring points.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1954-55. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

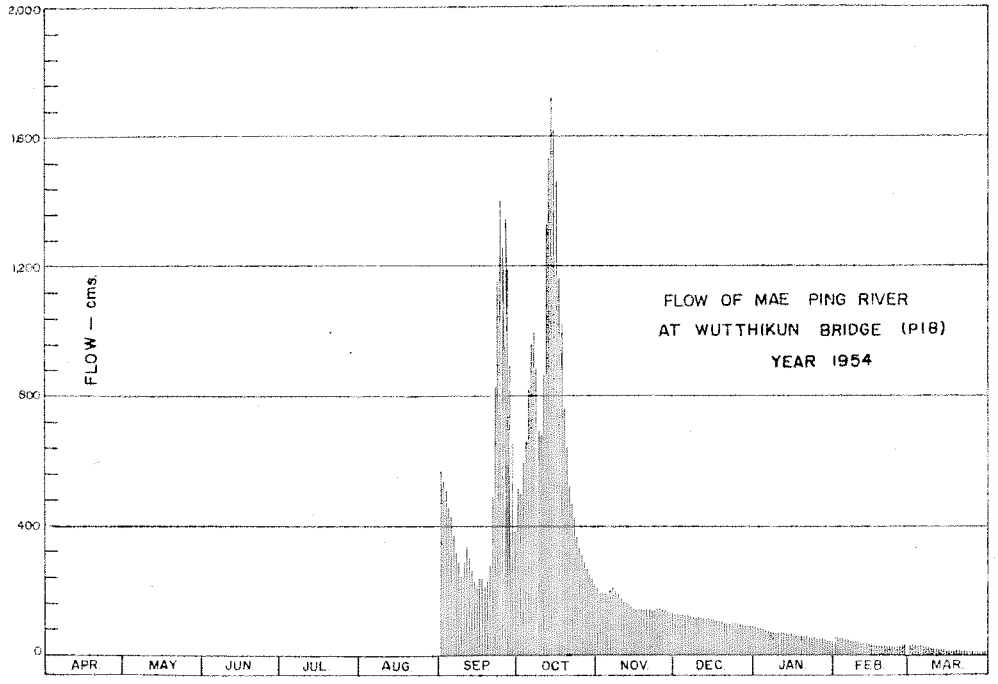
Remarks: Gage - height record began on Sept. 1, 1954.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						3.96	3.83	2.92	2.62	2.43	2.28	2.11
2						.89	.78	.88	.62	.43	.27	.10
3						.82	.99	.88	.61	.42	.26	.10
4						.69	4.16	.88	.61	.41	.25	.09
5						.60	.53	.86	.60	.39	.24	.09
6						3.43	4.76	2.92	2.60	2.38	2.23	2.08
7						.29	.85	.94	.59	.37	.22	.07
8						.19	.62	.89	.59	.36	.21	.06
9						.03	.27	.86	.58	.36	.20	.05
10						.25	.21	.82	.58	.35	.19	.04
11						3.35	4.59	2.78	2.57	2.35	2.18	2.03
12						.24	5.23	.76	.57	.34	.17	.02
13						.13	.63	.74	.56	.34	.16	.00
14						.00	.82	.71	.55	.33	.15	1.98
15						2.95	.68	.69	.54	.33	.14	.97
16						3.04	5.42	2.68	2.54	2.32	2.13	1.96
17						.03	.10	.68	.53	.31	.12	.96
18						2.94	4.74	.68	.53	.30	.11	.96
19						3.02	.38	.67	.52	.29	.10	.96
20						.18	.07	.67	.51	.29	.10	.95
21						3.77	3.83	2.67	2.51	2.28	2.09	1.95
22						4.27	.67	.67	.50	.27	.09	.95
23						5.18	.55	.68	.50	.27	.08	.94
24						.44	.41	.69	.50	.26	.08	.94
25						.25	.33	.69	.49	.25	.09	.93
26						5.37	3.26	2.68	2.48	2.25	2.10	1.93
27						.05	.20	.67	.47	.25	.11	.92
28						4.51	.13	.65	.46	.24	.11	.92
29						.16	.07	.65	.45	.23		.92
30						3.48	.03	.64	.44	.23		.92
31							2.97			.22		.92
Mean						3.75	4.19	2.76	2.53	2.31	2.15	1.99
Max.						5.44	5.82	2.92	2.62	2.43	2.28	2.11
Min.						2.94	2.97	2.64	2.44	2.22	2.08	1.92

WATER YEAR 1954 : Max. m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						565	512	203	126	84	56	29
2						536	493	192	126	84	54	28
3						509	577	192	124	82	53	28
4						458	650	192	124	80	51	26
5						424	821	187	122	76	49	26
6						362	946	203	122	74	47	25
7						315	998	209	119	72	46	24
8						282	868	195	119	70	44	23
9						234	699	187	117	70	42	22
10						302	672	176	117	69	41	21
11						335	852	166	115	69	39	20
12						299	1,243	161	115	67	38	19
13						264	1,533	156	113	67	36	17
14						226	1,716	148	110	65	35	16
15						212	1,594	143	108	65	33	14
16						237	1,383	140	108	63	32	13
17						234	1,154	140	106	61	31	13
18						209	934	140	106	60	29	13
19						232	749	138	104	58	28	13
20						279	612	138	102	58	28	12
21						489	512	138	102	56	26	12
22						699	450	138	99	54	26	12
23						1,208	405	140	99	54	25	11
24						1,399	355	143	99	52	25	11
25						1,257	328	143	97	51	26	10
26						1,345	305	140	95	51	28	10
27						1,121	286	138	93	51	29	9.60
28						811	264	135	91	49	29	9.60
29						650	246	133	89	47		9.60
30						580	234	131	87	47		9.60
31							217		87	46		9.60
Total						15,873	22,608	4,783	3,341	1,952	1,026	516
Mean						529	729	159	108	63.0	36.6	16.6
Max.						1,399	1,716.	203	126	84	56	29
Min.						212	217	131	87	46	25	9.60
Runoff - mcm.						1,371.427	1,953.331	413.251	288.662	168.653	88.646	44.582

WATER YEAR 1954 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

Mae Ping River at Wutthikun Bridge, Tak (P.18)

Location: Lat 16°- 40' - 57" N, Long 99°- 16' - 40" E, at abutment of Wutthikun Bridge, 500 meters downstream from confluence with Khlong Wang Chao, Amphoe Muang, Tak.

Drainage Area: 40,273 sq.km.

Type of Gage: Staff gage.

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

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 3, 5 - time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 and 5 readings.

Period of Available Gage Records: 1954 - 55, 1957 - 60, 1963 - Cont'd.

Rating Operation:

Period of Rating: 1954 - 55
Rated by Float: -
Rated by Current Meter: 1954 - 55

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation due to inadequate of measuring points.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1954-1955. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

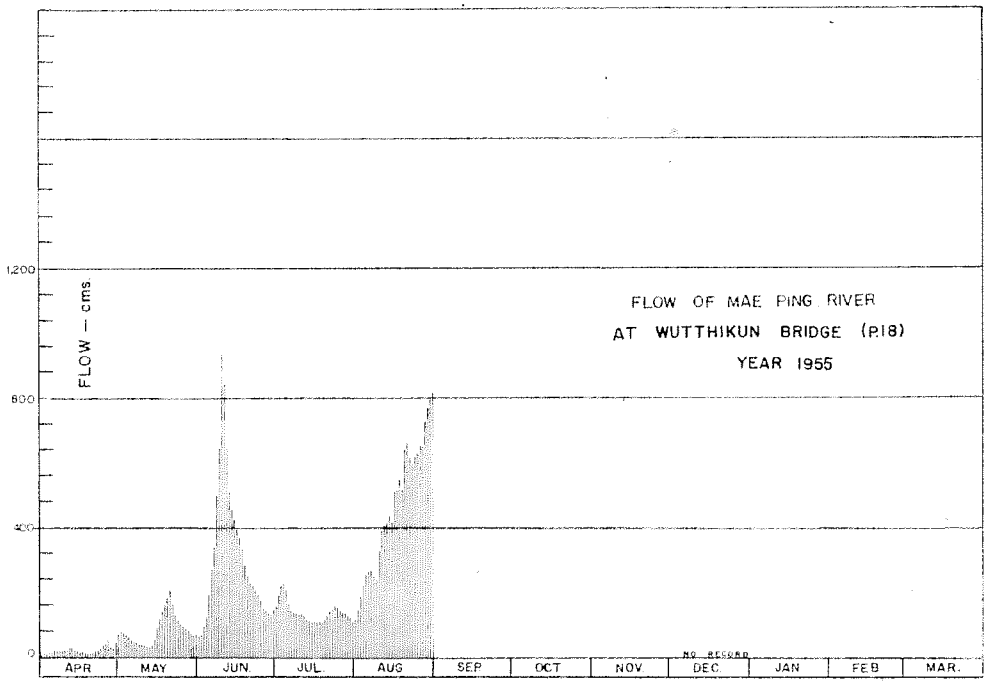
Remarks: No gage - height record for period Sept. 1,1955 - Mar.31,1956.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.92	2.35	2.32	2.73	2.57							
2	.92	.40	.34	.89	.69							
3	.92	.36	.41	.97	.87							
4	.92	.33	.62	3.00	.98							
5	.92	.28	.85	2.92	3.09							
6	1.99	2.24	3.12	2.73	3.13							
7	.99	.21	.37	.69	.14							
8	.99	.19	.76	.67	.07							
9	.98	.18	4.04	.64	.04							
10	2.00	.17	.74	.64	.28							
11	2.04	2.15	4.50	2.65	3.51							
12	.09	.13	.10	.63	.55							
13	.09	.12	3.75	.58	.57							
14	.03	.13	.68	.55	.63							
15	.01	.26	.59	.57	.58							
16	1.99	2.42	3.50	2.55	3.83							
17	.97	.55	.45	.54	.83							
18	.95	.65	.35	.55	.92							
19	.94	.73	.18	.54	.84							
20	.93	.84	.08	.57	4.11							
21	1.94	2.92	3.00	2.63	4.19							
22	.99	.73	2.98	.69	.08							
23	2.01	.60	.93	.72	.04							
24	.06	.54	.89	.75	.08							
25	.13	.50	.81	.73	.11							
26	2.17	2.46	2.70	2.69	4.16							
27	.26	.43	.69	.67	.15							
28	.12	.41	.66	.65	.32							
29	.09	.35	.66	.63	.42							
30	.18	.34	.70	.58	.48							
31		.33		.54	.52							
Mean	2.01	2.39	3.19	2.67	3.67							
Max.	2.26	2.92	4.74	3.00	4.52							
Min.	1.92	2.12	2.32	2.54	2.57							

WATER YEAR 1955 : Max. m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.60	69	63	153	115							
2	9.60	78	67	195	143							
3	9.60	70	80	217	189							
4	9.60	65	126	226	320							
5	9.60	56	184	203	252							
6	16	49	261	153	264							
7	16	44	342	143	267							
8	16	41	485	138	246							
9	15	39	599	131	237							
10	17	38	934	131	312							
11	21	35	806	133	391							
12	26	32	625	128	405							
13	26	31	481	117	412							
14	20	32	454	110	435							
15	18	53	420	115	416							
16	16	82	387	110	512							
17	14	110	369	108	512							
18	12	133	335	110	548							
19	11	153	279	108	516							
20	10	182	249	115	629							
21	11	205	226	128	663							
22	16	155	220	143	616							
23	18	122	206	150	599							
24	23	108	195	158	616							
25	32	99	174	153	629							
26	38	91	145	143	650							
27	53	84	143	138	646							
28	31	80	135	133	722							
29	26	69	135	128	768							
30	39	67	145	117	796							
31		65		108	816							
Total	589	2,533	9,270	4,343	14,542							
Mean	19.6	81.7	309	140	469							
Max.	53	205	934	226	816							
Min.	9.60	31	63	108	115							
Runoff - mcm.	50.889	218.851	800.928	375.235	1,256.428							

WATER YEAR 1955 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.689 m. (M.S.L.)

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

Location: Near pond which belonged to Mr. Bunsri Tongsuk Sakul.
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: Stable, no shifting adjustment for flow computation for years without actual ratings.

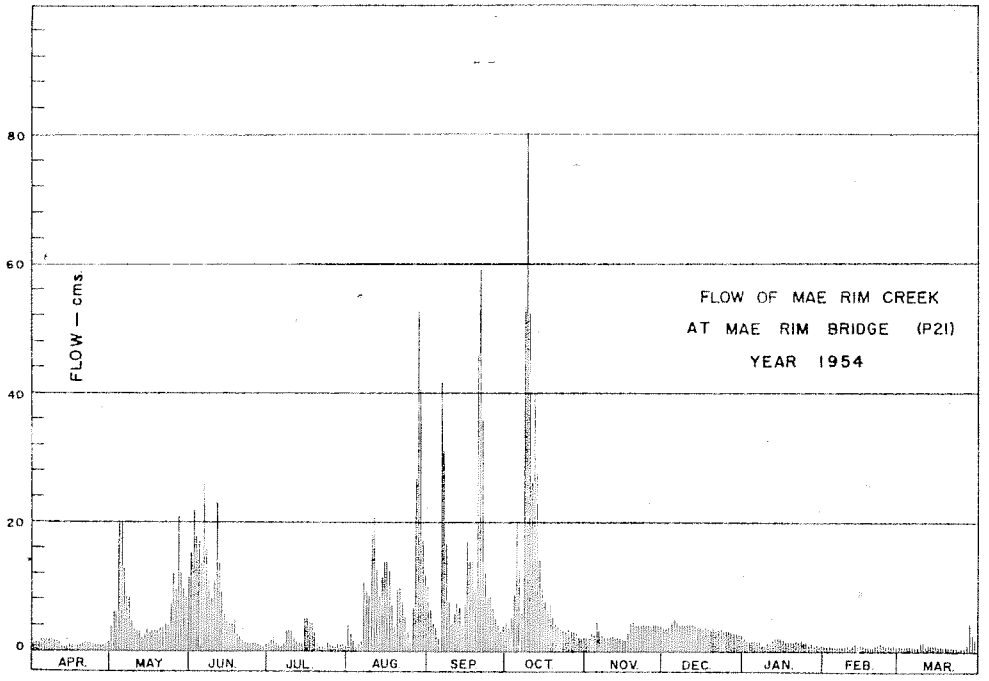
Overbank Flow Conditions: Overbank flow was observed at elev. +321.877 m. (M.S.L.) but not included for flow computation.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31,1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.49	320.69	321.16	320.48	320.73	320.99	320.74	320.58	320.70	320.58	320.44	320.40
2	.49	.83	.41	.50	.65	.82	.70	.59	.69	.54	.43	.39
3	.49	.81	.28	.61	.47	.73	.74	.65	.69	.54	.43	.40
4	.55	321.35	.25	.51	.42	.63	.91	.62	.74	.53	.42	.39
5	.55	.35	.18	.45	.48	.57	321.36	.75	.78	.55	.40	.38
6	320.55	320.97	321.52	320.45	320.53	321.89	321.08	320.64	320.74	320.49	320.40	320.38
7	.55	.95	.21	.43	321.06	.56	320.84	.62	.72	.49	.41	.38
8	.55	.93	.07	.66	320.99	.07	.89	.58	.71	.45	.41	.36
9	.53	.69	320.93	.66	.96	320.84	322.52	.58	.73	.44	.41	.47
10	.53	.67	.96	.67	321.28	.68	321.86	.59	.73	.51	.41	.48
11	320.51	320.65	321.43	320.58	321.39	320.77	321.40	320.61	320.72	320.50	320.39	320.36
12	.39	.63	.06	.52	.12	.92	.84	.58	.73	.54	.40	.42
13	.39	.57	320.87	.47	320.95	.88	.25	.59	.71	.57	.49	.42
14	.39	.57	.82	.44	321.04	.72	.13	.58	.71	.58	.45	.41
15	.43	.67	.74	.79	.16	322.08	320.99	.56	.70	.56	.44	.38
16	320.43	320.63	320.73	320.79	321.16	321.26	320.89	320.55	320.68	320.54	320.42	320.37
17	.43	.65	.73	.76	.11	.15	.85	.62	.69	.51	.40	.37
18	.43	.65	.76	.72	320.83	.17	.90	.74	.68	.52	.41	.37
19	.43	.65	.59	.66	.67	320.92	.78	.75	.67	.52	.39	.35
20	.45	.69	.56	.46	321.00	321.89	.73	.73	.68	.51	.39	.33
21	320.49	320.69	320.53	320.44	321.03	322.18	320.70	320.71	320.66	320.52	320.42	320.32
22	.49	.71	.49	.44	320.87	321.33	.67	.71	.67	.51	.45	.31
23	.47	.71	.48	.51	.74	.04	.67	.73	.68	.52	.47	.33
24	.45	.75	.50	.52	.64	320.93	.65	.72	.66	.51	.43	.31
25	.43	321.09	.50	.46	.50	.96	.67	.71	.67	.49	.42	.32
26	320.43	321.00	320.47	320.42	320.59	320.85	320.65	320.70	320.66	320.48	320.43	320.35
27	.43	.39	.48	.41	321.15	.78	.65	.71	.64	.47	.42	.39
28	.43	.03	.45	.49	322.09	.71	.63	.72	.64	.46	.41	.73
29	.45	.00	.42	.47	321.72	.65	.59	.71	.64	.46		.64
30	.49	320.94	.47	.51	.09	.71	.59	.70	.62	.45		.53
31		321.04		.46	.08		.59		.60	.45		.52
Mean	320.47	320.84	320.83	320.54	320.95	321.06	320.95	320.65	320.69	320.51	320.42	320.40
Max.	320.55	321.39	321.52	320.79	322.09	322.18	322.52	320.75	320.78	320.58	320.49	320.73
Min.	320.39	320.57	320.42	320.41	320.42	320.57	320.59	320.55	320.60	320.44	320.39	320.31

WATER YEAR 1954 : Max. 322.52 m. Min. 320.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.34	3.76	14	1.28	4.38	9.38	4.54	2.28	3.90	2.28	1.04	0.80
2	1.34	6.07	22	1.40	3.20	5.88	3.90	2.39	3.76	1.84	0.98	0.75
3	1.34	5.69	17	2.64	1.22	4.38	4.54	2.92	3.76	1.84	0.98	0.80
4	1.95	20	17	1.51	0.92	2.92	7.62	2.78	4.54	1.73	0.92	0.75
5	1.95	20	14	1.10	1.28	2.17	20	4.70	5.18	1.95	0.80	0.70
6	1.95	8.94	26	1.10	1.73	42	12	3.06	4.54	1.34	0.80	0.70
7	1.95	8.50	15	0.98	11	28	6.26	2.78	4.22	1.34	0.86	0.70
8	1.95	8.06	11	3.34	9.38	11	7.21	2.28	4.06	1.10	0.86	0.60
9	1.73	3.76	8.06	3.34	8.72	6.26	*80	2.28	4.38	1.04	0.86	1.22
10	1.73	3.48	8.72	3.48	17	3.62	41	2.39	4.38	1.51	0.86	1.28
11	1.51	3.20	23	2.28	21	5.02	22	2.64	4.22	1.40	0.75	0.60
12	0.75	2.92	11	1.62	13	7.84	40	2.28	4.38	1.84	0.80	0.92
13	0.75	2.17	6.83	1.22	8.50	7.02	17	2.39	4.06	2.17	1.34	0.92
14	0.75	2.17	5.88	1.04	11	4.22	13	2.28	4.06	2.28	1.10	0.86
15	0.98	3.48	*4.54	5.34	14	53	9.38	2.06	3.90	2.06	1.04	0.70
16	0.98	2.92	4.38	5.34	14	17	7.21	1.95	3.62	1.84	0.92	0.65
17	0.98	3.20	4.38	4.86	12	14	6.45	2.78	3.76	1.51	0.80	0.65
18	0.98	3.20	4.86	4.22	6.07	14	7.40	4.54	3.62	1.62	0.86	0.65
19	0.98	3.20	2.39	3.34	3.48	7.84	5.18	4.70	3.48	1.62	0.75	0.55
20	1.10	3.76	2.06	1.16	9.60	42	4.38	4.38	3.62	1.51	0.75	0.45
21	1.34	3.76	1.73	1.04	10	59	3.90	4.06	3.34	1.62	0.92	0.40
22	1.34	4.06	1.34	1.04	6.83	19	3.48	4.06	3.48	1.51	1.10	0.35
23	1.22	4.06	1.28	1.51	4.54	11	3.48	4.38	3.62	1.62	1.22	0.45
24	1.10	4.70	1.40	1.62	3.06	8.06	3.20	4.22	3.34	1.51	0.98	0.35
25	0.98	12	1.40	1.16	1.40	8.72	3.48	4.06	3.48	1.34	0.92	0.40
26	0.98	9.60	1.22	0.92	2.39	6.45	3.20	3.90	3.34	1.28	0.98	0.55
27	0.98	21	1.28	0.86	14	5.18	3.20	4.06	3.06	1.22	0.92	0.75
28	0.98	10	1.10	1.34	53	4.06	2.92	4.22	3.06	1.16	0.86	4.38
29	1.10	9.60	0.92	1.22	35	3.20	2.39	4.06	3.06	1.16		3.06
30	1.34	8.28	1.22	1.51	12	4.06	2.39	3.90	2.78	1.10		1.73
31		11		1.16	12		2.39		2.50	1.10		1.62
Total	38.35	216.54	234.99	63.97	325.70	416.28	353.10	98.78	116.50	48.44	25.97	29.29
Mean	1.28	6.98	7.83	2.06	10.5	13.9	11.4	3.29	3.76	1.56	0.93	0.94
Max.	1.95	21	26	5.34	53	59	80	4.70	5.18	2.28	1.34	4.38
Min.	0.75	2.17	0.92	0.86	0.92	2.17	2.39	1.95	2.50	1.04	0.75	0.35
Runoff — mcm.	3.313	18.709	20.303	5.527	28.140	35.966	30.508	8.534	10.066	4.185	2.244	2.531

WATER YEAR 1954: Max. 80 Min. 0.35 Mean 5.39 Annual Runoff 170.027 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	12.00	322.56	83				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 bridge on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.689 m. (M.S.L.)

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

Location: Near pond which belonged to Mr. Bunsri Tongsuk Sakul.
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 - 1960
Rated by Float: -
Rated by Current Meter: 1954 - 1960

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

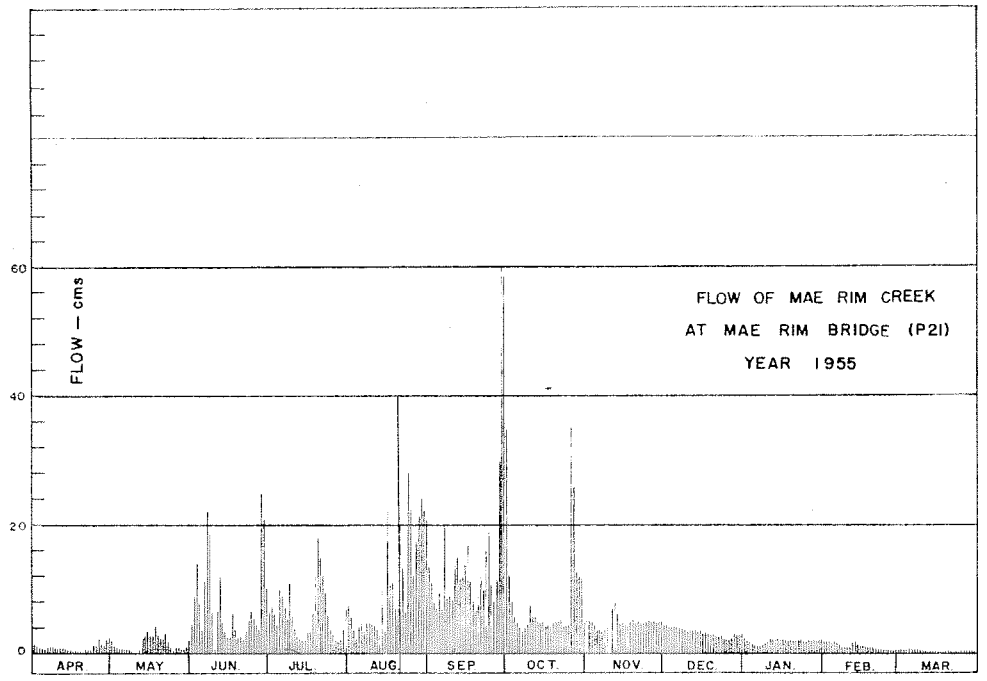
Overbank Flow Conditions: Overbank flow was observed at elev. +321.877 m. (M.S.L.) but not included for flow computation.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.47	320.55	320.65	320.89	320.94	321.09	321.17	320.72	320.68	320.57	320.52	320.34
2	.41	.42	.91	.95	.85	.01	.00	.69	.68	.56	.51	.35
3	.38	.38	321.17	.89	.71	320.90	320.89	.69	.68	.55	.51	.34
4	.36	.34	320.78	.80	.66	.84	.82	.67	.68	.54	.52	.35
5	.36	.35	.71	321.09	.77	.97	.76	.62	.69	.52	.51	.36
6	320.39	320.37	320.87	320.97	320.84	320.83	320.74	320.61	320.70	320.51	320.50	320.35
7	.42	.36	321.43	.82	.71	321.28	.72	.60	.69	.52	.46	.33
8	.41	.38	.33	.67	.88	320.89	.77	.62	.69	.53	.41	.33
9	.38	.36	320.65	321.07	.82	.89	.76	.65	.67	.55	.41	.32
10	.36	.22	.17	320.79	.79	.84	.91	.66	.65	.57	.42	.32
11	320.36	320.21	320.87	320.65	320.76	321.07	320.79	320.81	320.66	320.58	320.43	320.32
12	.37	.26	321.15	.64	.72	.10	.75	.87	.65	.57	.52	.31
13	.34	.61	320.81	.62	.66	320.99	.72	.71	.60	.57	.54	.31
14	.32	.66	.69	.61	321.07	321.05	.69	.69	.64	.57	.50	.31
15	.30	.70	.64	.62	320.71	.17	.69	.68	.66	.57	.49	.31
16	320.30	320.66	320.70	320.67	320.65	321.24	320.67	320.67	320.62	320.56	320.47	320.30
17	.29	.67	.97	.68	.02	.11	.68	.66	.63	.55	.44	.30
18	.28	.78	.69	.79	.08	.03	.67	.70	.62	.56	.42	.30
19	.28	.69	.66	321.05	.09	320.93	.69	.73	.61	.55	.42	.29
20	.27	.61	.67	.29	.88	321.00	.68	.70	.61	.55	.41	.29
21	320.37	320.61	320.73	321.17	321.29	321.16	320.68	320.70	320.60	320.54	320.40	320.28
22	.35	.71	.80	.05	.09	.05	.68	.70	.61	.55	.39	.28
23	.35	.58	321.06	320.97	320.90	.26	.65	.70	.62	.53	.39	.28
24	.45	.47	320.87	.79	321.63	.35	.66	.70	.58	.51	.37	.29
25	.43	.44	.80	.76	.40	320.97	.60	.70	.55	.50	.36	.29
26	320.57	320.47	320.77	320.66	321.15	320.93	321.65	320.69	320.58	320.51	320.36	320.28
27	.46	.44	.72	.62	.27	.89	.10	.69	.58	.51	.35	.28
28	.47	.41	321.53	.57	.44	321.35	320.98	.68	.56	.51	.34	.28
29	.53	.39	.46	.59	.49	322.18	.90	.68	.55	.51	.34	.28
30	.56	.39	320.98	.70	.41	.14	.81	.68	.56	.52		.28
31		.52		.89	.32		320.67		.56	.51		.28
Mean	320.39	320.48	320.77	320.80	321.01	321.15	320.81	320.69	320.65	320.54	320.44	320.31
Max.	320.56	320.78	321.43	321.29	321.88	322.18	321.65	320.87	320.70	320.58	320.54	320.36
Min.	320.27	320.21	320.17	320.57	320.66	320.83	320.72	320.60	320.55	320.50	320.34	320.28

WATER YEAR 1955 : Max. 322.18 m. Min. 320.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.40	2.06	3.30	6.26	7.62	13	15	5.30	4.22	2.06	1.95	0.50
2	1.04	0.98	7.70	7.21	5.50	11	10	5.18	4.22	1.95	1.84	0.55
3	0.80	0.80	14	6.26	2.78	7.84	7.40	5.02	4.22	1.84	1.84	0.50
4	0.70	0.60	5.00	4.20	2.17	6.83	5.69	4.54	4.22	1.73	1.95	0.55
5	0.70	0.65	3.80	10	4.22	9.60	4.54	3.76	4.38	1.51	1.84	0.60
6	0.92	0.70	6.50	9.16	5.34	6.64	4.06	3.62	4.22	1.34	1.62	0.55
7	1.10	0.65	22	6.83	3.34	20	3.34	3.48	4.06	1.40	1.28	0.45
8	1.04	0.60	18	4.54	5.07	8.50	4.22	3.76	3.90	1.51	0.96	0.45
9	0.86	0.40	2.80	11	5.02	9.16	4.06	4.22	3.62	1.73	0.98	0.40
10	0.75	0.00	0.00	5.50	4.70	8.28	7.21	4.38	3.34	1.95	1.04	0.40
11	0.80	0.00	6.20	2.92	4.22	14	5.88	6.83	3.62	2.39	1.04	0.40
12	0.86	0.12	12	2.50	3.62	15	5.86	8.06	3.48	2.28	1.73	0.35
13	0.70	2.28	5.02	2.28	2.64	11	5.18	4.86	3.62	2.28	1.95	0.35
14	0.60	2.78	3.20	2.17	10	12	4.86	4.70	3.34	2.28	1.51	0.35
15	0.90	3.30	2.50	2.28	3.34	13	4.86	4.70	3.62	2.28	1.40	0.35
16	0.50	2.70	2.64	3.48	2.78	17	4.22	4.22	3.20	2.17	1.28	0.30
17	0.45	2.70	6.46	3.48	9.32	10	4.54	4.22	3.34	2.17	1.10	0.30
18	0.40	4.20	2.64	5.34	11	8.50	4.38	4.86	3.20	2.17	0.98	0.30
19	0.40	2.90	2.50	11	11	6.64	5.02	5.54	3.06	2.06	0.98	0.27
20	0.35	2.20	2.78	18	40	8.06	4.86	4.86	3.06	2.06	0.92	0.27
21	0.75	2.20	4.38	14	17	12	5.02	4.86	2.64	2.06	0.80	0.24
22	0.65	3.10	5.34	12	11	9.86	5.50	4.86	2.78	2.28	0.75	0.24
23	0.65	1.80	11	9.16	6.70	16	4.38	4.86	2.92	2.06	0.76	0.24
24	1.28	0.80	6.83	4.86	29	19	4.38	4.86	2.39	1.95	0.65	0.27
25	1.16	0.60	5.50	4.22	20	8.50	4.22	5.02	2.06	1.95	0.60	0.27
26	2.50	1.00	4.70	3.06	12	8.28	35	4.86	2.17	2.06	0.60	0.24
27	1.34	0.90	3.48	2.59	15	7.62	18	5.02	2.17	2.06	0.55	0.24
28	1.51	0.80	24	1.95	21	21	11	4.86	1.95	2.06	0.50	0.24
29	2.06	0.80	20	2.17	24	60	12	5.02	1.84	2.06	0.50	0.24
30	2.39	0.80	6.83	3.62	22	58	12	5.02	1.95	2.17		0.24
31		1.90		6.83	21		4.70		1.95	2.06		0.24
Total	28.96	45.32	221.10	188.67	361.66	436.31	224.62	145.35	99.75	61.93	33.89	10.89
Mean	0.96	1.46	7.37	6.10	11.7	14.5	7.24	4.84	3.18	2.00	1.17	0.35
Max.	2.39	4.20	24	18	40	60	35	8.06	4.38	2.39	1.95	0.60
Min.	0.35	0.00	0.00	1.95	2.17	6.64	3.34	3.48	1.84	1.34	0.50	0.24
Runoff — mcm.	2.502	3.916	19.105	16.301	29.587	37.697	19.407	12.558	8.533	5.351	2.928	0.941

WATER YEAR 1955 : Max. 60 Min. 0.00 Mean 5.09 Annual Runoff 161.070 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 29	15.00	322.32	70				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 bridge on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +319.689 m. (M.S.L.)

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

Location: Near pond which belonged to Mr. Bunsri Tongsuk Sakul.
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, shifting adjustment is included for flow computation.

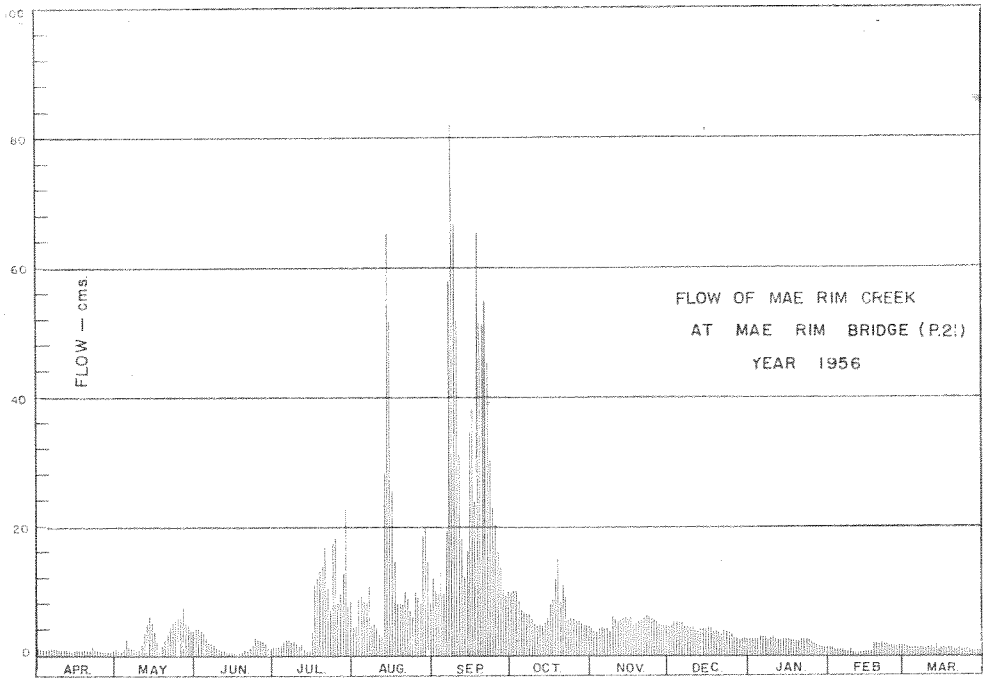
Overbank Flow Conditions: Overbank flow was observed at elev. +321.877 m. (M.S.L.) but not included for flow computation.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.35	320.39	320.64	320.64	320.83	321.04	320.83	320.55	320.62	320.53	320.42	320.42
2	.36	.38	.63	.63	.81	320.98	.85	.53	.64	.53	.41	.41
3	.36	.37	.61	.61	321.01	.94	.84	.51	.65	.54	.38	.40
4	.36	.39	.59	.59	.00	321.14	.74	.53	.65	.55	.37	.40
5	.36	.58	.49	.49	320.93	320.95	.67	.56	.65	.57	.35	.40
6	320.35	320.46	320.46	320.46	320.85	320.74	320.66	320.53	320.65	320.56	320.34	320.39
7	.35	.44	.45	.45	321.02	322.17	.66	.55	.62	.55	.33	.40
8	.35	.43	.42	.42	320.68	.62	.65	.64	.62	.53	.32	.40
9	.36	.42	.39	.39	.70	.31	.58	.67	.61	.53	.39	.38
10	.36	.40	.34	.34	.63	.01	.56	.63	.60	.53	.27	.40
11	320.36	320.41	320.32	320.32	320.60	321.40	320.55	320.62	320.59	320.53	320.27	320.41
12	.35	.71	.31	.31	.58	.27	.56	.63	.60	.52	.29	.36
13	.35	.78	.30	.30	.63	.02	.54	.64	.61	.52	.30	.32
14	.35	.85	.29	.29	322.33	.08	.58	.66	.62	.53	.31	.31
15	.35	.77	.27	.27	321.99	.70	.62	.65	.62	.54	.33	.39
16	320.35	320.62	320.24	320.24	321.25	321.80	320.73	320.66	320.61	320.53	320.32	320.39
17	.35	.55	.21	.21	.11	.25	.78	.61	.61	.52	.32	.39
18	.36	.52	.24	.24	320.88	322.30	.82	.60	.59	.51	.46	.39
19	.36	.51	.29	.29	.78	321.17	321.07	.64	.59	.50	.47	.39
20	.36	.59	.30	.30	.97	322.03	320.70	.66	.58	.50	.46	.37
21	320.35	320.69	320.31	320.31	320.97	322.10	320.98	320.68	320.57	320.52	320.47	320.38
22	.43	.72	.35	.35	.92	321.86	.78	.69	.60	.53	.45	.39
23	.34	.74	.40	.40	.80	.36	.61	.69	.61	.53	.44	.38
24	.35	.78	.55	.55	.75	.36	.64	.67	.60	.53	.43	.38
25	.34	.79	.46	.46	.97	.17	.63	.66	.57	.49	.43	.36
26	320.35	320.77	320.45	320.45	320.92	321.04	320.62	320.65	320.54	320.47	320.42	320.35
27	.35	.84	.43	.43	.87	320.87	.61	.62	.55	.45	.41	.34
28	.35	.67	.41	.41	321.27	.75	.59	.61	.54	.42	.42	.34
29	.36	.66	.30	.30	.35	.77	.57	.62	.53	.40		.35
30	.48	.62	.30	.30	.05	.80	.57	.61	.52	.39		.34
31		.62			320.85		.56		.52	.39		.35
Mean	320.36	320.59	320.39	320.39	320.98	321.33	320.68	320.60	320.60	320.51	320.38	320.38
Max.	320.48	320.85	320.64	320.64	322.33	322.62	321.07	320.69	320.65	320.57	320.47	320.42
Min.	320.34	320.37	320.21	320.21	320.58	320.74	320.54	320.51	320.52	320.39	320.27	320.34

WATER YEAR 1956 : Max. 322.62 m. Min. 320.21 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.88	0.81	4.30	1.50	4.30	12	10	4.30	4.62	2.66	1.40	1.60
2	0.95	0.74	4.14	1.50	4.62	10	10	3.98	4.94	2.66	1.30	1.50
3	0.95	0.67	3.82	1.50	8.81	9.65	10	3.66	5.10	2.78	1.09	1.40
4	0.95	0.81	3.50	1.50	9.44	14	8.22	3.98	5.10	2.60	1.02	1.40
5	0.95	2.54	2.30	2.30	8.60	9.86	6.89	4.46	5.10	3.14	0.88	1.40
6	0.88	1.23	2.10	2.42	7.65	5.90	6.70	3.98	4.94	3.82	0.81	1.30
7	0.88	1.09	2.00	2.42	11	58	6.70	4.30	4.46	2.90	0.74	1.40
8	0.88	1.02	1.70	2.30	4.62	82	6.48	5.74	4.46	2.66	0.60	1.40
9	0.95	0.95	1.40	2.30	4.94	65	5.26	6.32	4.30	2.66	1.09	1.23
10	0.88	0.81	1.02	1.70	3.82	51	4.94	5.58	4.46	2.90	0.40	1.40
11	0.88	0.81	0.88	1.50	3.38	22	4.78	5.42	3.82	2.66	0.40	1.40
12	0.81	3.98	0.81	1.80	3.14	18	4.94	5.58	3.98	2.54	0.48	1.02
13	0.74	5.10	0.74	1.16	3.82	11	4.46	5.74	4.14	2.54	0.52	1.74
14	0.74	6.32	0.67	0.74	65	13	5.10	6.06	4.30	2.66	0.60	0.67
15	0.74	4.94	0.56	0.88	45	34	5.64	5.90	4.30	2.78	0.74	1.23
16	0.74	2.66	0.48	0.95	17	38	7.65	5.90	4.41	2.66	0.67	1.23
17	0.74	1.90	0.36	11	13	18	8.60	4.78	4.41	2.54	0.67	1.23
18	0.81	1.60	0.48	12	8.05	65	9.44	4.62	3.82	2.42	1.90	1.23
19	0.81	1.50	0.74	13	7.84	15	15	5.26	3.82	2.30	2.00	1.23
20	0.74	2.20	0.81	13	7.62	52	7.08	5.58	3.50	2.30	1.90	1.09
21	0.67	3.50	0.81	17	10	55	11	5.90	3.38	2.54	2.10	1.16
22	1.23	4.14	1.16	10	9.02	40	8.41	6.06	3.82	2.66	1.90	1.23
23	0.56	4.62	1.70	5.90	6.70	22	5.42	6.06	3.82	2.66	1.80	1.16
24	0.60	5.42	2.90	17	5.90	23	5.90	5.74	3.66	2.66	1.70	1.16
25	0.56	5.74	2.42	18	10	18	5.74	5.58	3.26	2.20	1.70	1.02
26	0.60	5.74	2.30	7.08	9.02	15	5.58	5.26	2.78	2.00	1.60	0.95
27	0.60	7.27	2.10	9.86	8.05	12	5.42	4.78	2.78	1.80	1.50	0.83
28	0.60	4.78	1.90	11	18	10	5.10	4.62	2.78	1.50	1.60	0.88
29	0.67	4.62	0.95	23	20	9.02	4.78	4.78	2.66	1.30		0.95
30	0.67	3.98	0.95	5.58	12	10	4.78	4.62	2.54	1.23		0.88
31		3.98		8.60	7.62		4.62		2.54	1.23		0.98
Total	23.66	95.47	50.00	208.49	360.19	817.43	214.73	154.54	121.46	75.46	33.11	36.32
Mean	0.80	3.06	1.67	6.71	11.6	27.2	6.93	5.13	3.90	2.42	1.18	1.16
Max.	1.23	7.27	4.30	23	65	82	15	6.32	5.10	3.14	2.10	1.60
Min.	0.56	0.67	0.36	0.74	3.14	5.90	4.46	3.66	2.54	1.23	0.40	0.88
Runoff - mcm.	2.044	8.249	4.320	18.013	31.120	70.626	18.553	13.352	10.494	6.520	2.861	3.138

WATER YEAR 1956 : Max. 82 Min. 0.36 Mean 6.00 Annual Runoff 189.290 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 8	12.00	322.69	86				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 from bridge on highway Chiang Mai – Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.09 m. (M.S.L.)

Bench Mark: B.M. – H.S./R.I.D.

Location: On left bank 9 meters from 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 it stability.

Overbank Flow Conditions: No overbank flow.

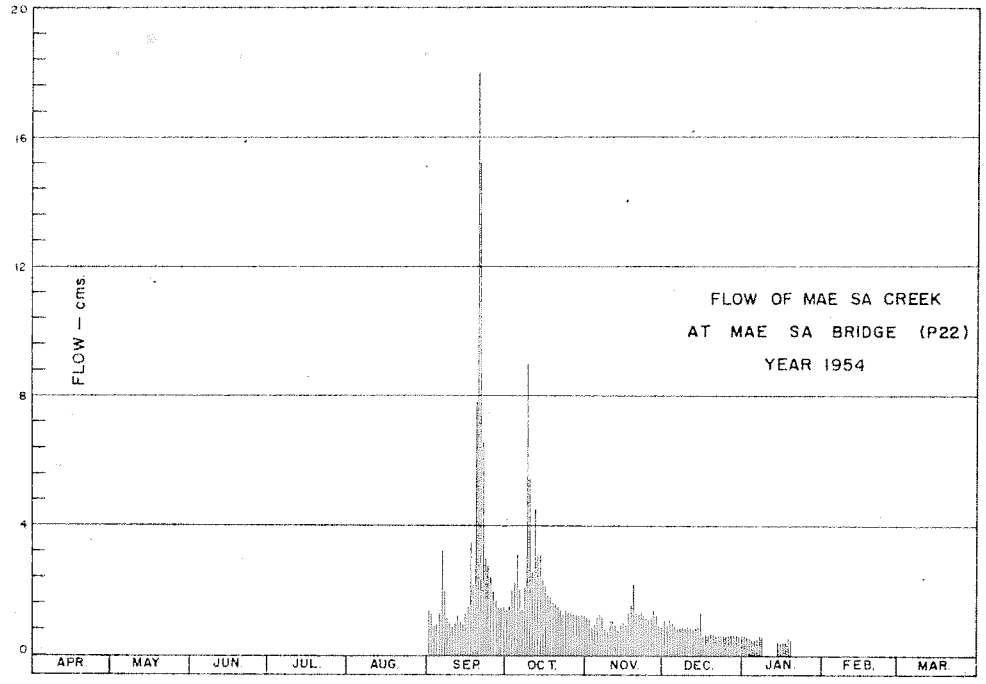
General Description: Records fair except those for periods of no gage – height record which are poor. Stage–discharge relationship defined by discharge measurements made during 1954. Natural flow of stream affected by diversions for irrigation made by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						317.60	317.60	317.57	317.56	317.48		
2						.58	.60	.56	.54	.48		
3						.54	.67	.52	.56	.46		
4						.55	.68	.54	.55	.46		
5						.53	.77	.57	.53	.46		
6						317.78	317.67	317.58	317.51	317.48		
7						.63	.60	.57	.51	.48		
8						.57	.66	.50	.57			
9						.55	318.18	.50	.52			
10						.53	317.75	.56	.53			
11						317.55	317.71	317.56	317.52			
12						.58	.88	.53	.51			
13						.54	.75	.51	.52			
14						.53	.73	.54	.52	317.45		
15						.59	.69	.55	.59	.44		
16						317.58	317.67	317.54	317.47	317.45		
17						.80	.65	.59	.49	.45		
18						.68	.63	.60	.49	.47		
19						.57	.63	.69	.49	.46		
20						318.54	.62	.56	.49			
21						318.22	317.61	317.58	317.48			
22						317.82	.59	.59	.48			
23						.75	.58	.58	.48			
24						.73	.60	.57	.48			
25						.69	.59	.56	.48			
26						317.66	317.59	317.55	317.48			
27						.64	.58	.60	.49			
28						.61	.58	.58	.48			
29						.61	.56	.53	.48			
30						.61	.58	.53	.48			
31							.58		.48			
Mean						317.67	317.66	317.56	317.49			
Max.						318.54	318.18	317.60	317.59			
Min.						317.53	317.58	317.50	317.48			

WATER YEAR 1954 : Max. m. Min m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						1.40	1.40	1.16	1.08	0.58		
2		Stream Gaging began on Sept.1, 1954				1.24	1.40	1.08	0.94	0.58		
3						0.94	2.00	0.82	1.08	0.46		
4						1.00	2.10	0.94	1.00	0.46		
5						0.88	3.14	1.16	0.88	0.46		
6						3.26	2.00	1.24	0.76	0.58		
7						1.64	1.40	1.16	0.76	0.58		
8						1.16	1.90	0.70	0.82			
9						1.00	9.88	0.70	0.82			
10						0.88	2.90	1.08	0.88			
11						1.00	2.42	1.08	0.82			
12						1.24	4.54	0.88	0.76			
13						0.94	2.90	0.76	0.82			
14						0.88	2.60	0.94	0.82	0.40		
15						1.32	2.20	1.00	1.32	0.36		
16						1.24	2.00	0.94	0.52	0.40		
17						3.50	1.80	1.32	0.64	0.40		
18						2.10	1.64	1.40	0.64	0.52		
19						2.00	1.64	2.20	0.64	0.46		
20						18	1.56	1.08	0.64			
21						11	1.48	1.24	0.58			
22						3.76	1.32	1.32	0.58			
23						2.90	1.24	1.24	0.58			
24						2.66	1.40	1.16	0.58			
25						2.20	1.32	1.08	0.58			
26						1.90	1.32	1.00	0.58			
27						1.72	1.24	1.40	0.64			
28						1.48	1.24	1.24	0.58			
29						1.48	1.24	0.88	0.58			
30						1.48	1.24	0.88	0.58			
31							1.24		0.58			
Total						76.20	65.76	33.08	23.08			
Mean						2.53	2.12	1.10	0.74			
Max.						18	9.88	2.20	1.32			
Min.						0.88	1.24	0.70	0.58			
Runoff - mcm.						6.584	5.682	2.858	1.994			

WATER YEAR 1954 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 from bridge, on highway Chiang Mai-Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.09 m. (M.S.L.)

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

Location: On left bank 9 meters from 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 inadequate of measuring points.

Overbank Flow Conditions: No overbank flow.

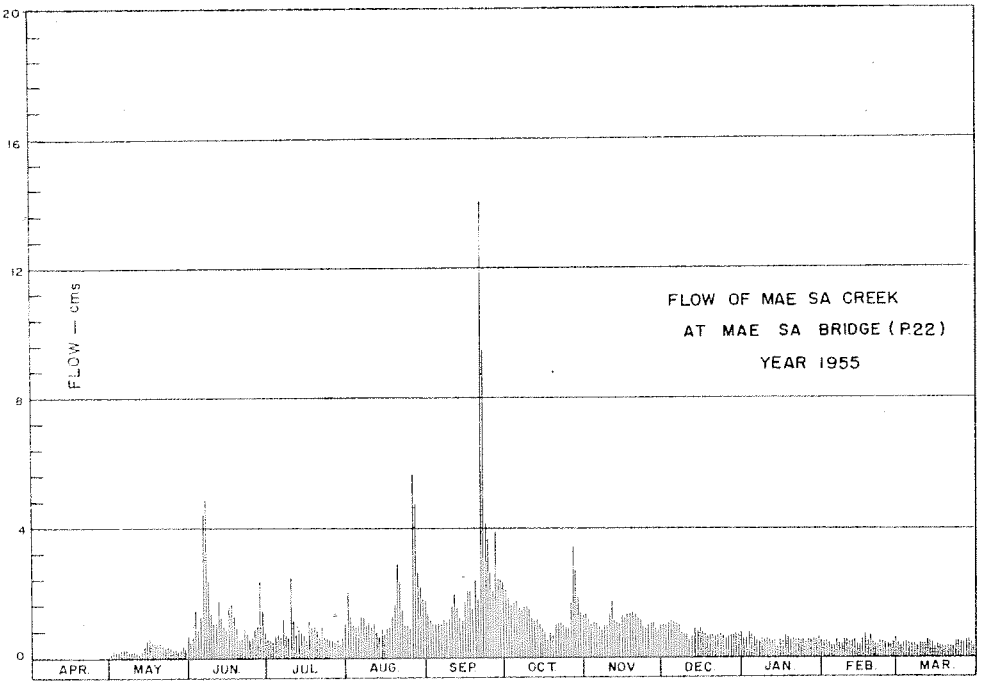
General Description: Records fair. Stage-discharge relationship is defined by discharge measurements made during 1954 - 60. Natural flow of stream affected by diversions for irrigation made by local residents. No adjustment made for virgin flow.

Remarks: No gage - height record for period Apr. 1 - 30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		317.41	317.51	317.55	317.78	317.67	317.78	317.68	317.63	317.53	317.53	317.51
2		.45	.51	.54	.65	.66	.75	.66	.63	.56	.54	.49
3		.46	.70	.53	.63	.63	.73	.63	.64	.59	.52	.51
4		.43	.60	.57	.62	.63	.73	.65	.66	.57	.49	.52
5		.45	.59	.58	.62	.64	.74	.63	.65	.55	.49	.51
6		317.46	318.00	317.57	317.67	317.63	317.71	317.61	317.64	317.52	317.53	317.49
7		.44	.04	.66	.67	.66	.70	.59	.63	.51	.51	.50
8		.42	317.73	.58	.63	.64	.72	.63	.58	.55	.49	.47
9		.43	.68	.55	.64	.66	.72	.63	.57	.53	.55	.50
10		.43	.63	.83	.62	.71	.70	.67	.57	.55	.54	.51
11		317.43	317.63	317.61	317.64	317.77	317.67	317.74	317.53	317.54	317.51	317.48
12		.39	.69	.57	.58	.71	.64	.62	.56	.52	.53	.54
13		.44	.66	.61	.54	.65	.66	.65	.61	.53	.53	.50
14		.47	.63	.59	.60	.65	.64	.63	.58	.48	.50	.49
15		.53	.60	.57	.57	.75	.60	.68	.61	.54	.49	.46
16		317.55	317.72	317.51	317.51	317.78	317.55	317.66	317.59	317.51	317.55	317.50
17		.52	.73	.66	.60	.78	.53	.68	.58	.57	.58	.49
18		.51	.67	.60	.67	.67	.59	.68	.54	.55	.52	.48
19		.51	.60	.62	.68	.82	.57	.69	.58	.54	.57	.47
20		.51	.55	.59	.87	.72	.64	.68	.57	.54	.51	.48
21		317.50	317.55	317.55	317.81	318.55	317.64	317.66	317.56	317.52	317.51	317.47
22		.48	.60	.62	.65	317.87	.64	.66	.57	.53	.49	.48
23		.49	.58	.56	.62	.98	.63	.61	.58	.53	.53	.52
24		.48	.55	.55	.63	.96	.62	.61	.56	.53	.52	.52
25		.44	.55	.55	.61	.79	.61	.63	.55	.51	.51	.51
26		317.46	317.61	317.54	318.10	317.75	317.62	317.64	317.56	317.54	317.50	317.51
27		.45	.56	.52	.00	.96	.92	.64	.57	.53	.49	.53
28		.44	.82	.54	317.83	.82	.80	.60	.57	.55	.51	.53
29		.49	.66	.52	.79	.82	.72	.60	.58	.54	.56	.51
30		.48	.58	.56	.74	.81	.68	.65	.58	.56		.47
31		.57		.63	.74		.67		.59	.51		.49
Mean		317.47	317.65	317.58	317.69	317.77	317.66	317.65	317.60	317.54	317.52	317.48
Max.		317.57	318.04	317.83	318.10	318.55	317.92	317.69	317.66	317.59	317.58	317.54
Min.		317.39	317.51	317.51	317.54	317.63	317.53	317.59	317.53	317.48	317.49	317.47

WATER YEAR 1955 : Max. 318.55 m. Min. 317.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.10	0.41	0.56	2.03	1.22	2.03	1.29	0.98	0.49	0.49	0.41
2		0.20	0.60	0.52	1.09	1.15	1.78	1.15	0.98	0.60	0.52	0.33
3		0.22	1.43	0.49	0.98	0.98	1.60	0.98	1.04	0.76	0.45	0.41
4		0.15	0.82	0.65	0.93	0.98	1.64	1.09	1.15	0.65	0.33	0.45
5		0.20	0.76	0.71	0.93	1.04	1.71	0.98	1.09	0.56	0.33	0.41
6		0.22	4.35	0.65	1.22	0.98	1.50	0.87	1.04	0.45	0.49	0.33
7		0.17	4.85	1.15	1.22	1.15	1.43	0.76	0.98	0.41	0.41	0.37
8		0.12	1.64	0.71	0.98	1.04	1.57	0.98	0.71 × 2	0.56	0.33	0.26
9		0.15	1.29	0.56	1.04	1.15	1.57	0.98	0.65	0.49	0.56	0.37
10		0.15	0.98	2.48	0.93	1.50	1.43	1.22	0.65	0.56	0.52	0.41
11		0.15	0.98	0.87	1.04	1.94	1.22	1.71	0.49	0.52	0.41	0.30
12		0.08	1.36	0.65	0.71	1.50	1.04 × 2	0.93 × 2	0.60	0.45	0.49	0.52
13		0.17	1.15	0.87	0.52	1.09	1.15	1.09	0.87	0.49	0.49	0.37
14		0.26	0.98	0.76	0.82	1.09	1.04	0.98	0.71	0.30	0.37	0.33
15		0.49	0.82	0.65	0.65	1.71	0.82	1.29	0.87	0.52	0.33	0.22
16		0.56	1.57	0.41	0.87	2.03	0.56	1.15	0.76	0.41	0.56	0.37
17		0.45	1.64	1.15	0.82	2.03	0.49	1.29	0.71	0.65	0.71	0.33
18		0.41	1.22	0.82	1.22	1.22	0.76	1.29	0.52	0.56	0.45	0.30
19		0.41	0.82	0.93	1.29	2.39	0.65	1.36	0.71	0.52	0.65	0.26
20		0.41	0.56	0.76	2.86	1.57	1.04	1.29	0.65	0.52	0.41	0.30
21		0.37	0.56	0.56	2.30	14	1.04	1.15	0.60	0.52	0.41	0.26
22		0.30	0.82	0.93	1.09	2.86	1.04	1.15	0.65	0.49	0.33	0.30
23		0.33	0.71	0.60	0.93	4.10	0.98	0.87	0.71	0.49	0.49	0.45
24		0.30	0.56	0.56	0.98	3.85	0.93	0.87	0.60	0.49	0.45	0.45
25		0.17	0.56	0.56	0.87	3 2.12 ×	0.87	0.98	0.56	0.41	0.41	0.41
26		0.22	0.87	0.52	5.66	1.78	0.93	1.04	1 0.60 ×	0.52	0.37	0.41
27		0.20	0.60	0.45	4.35	3.85	3.41	1.04	0.65	0.49	0.33	0.49
28		0.17	2.39	0.52	2.48	2.39	2.21	0.82	0.65	0.56	0.41	0.49
29		0.33	1.15	0.45	2.12	2.39	1.57	0.82	0.71	0.52	0.60	0.41
30		0.30	0.71	0.60	1.71	2.30	1.29	0.98	0.71	0.60		0.26
31		0.65		0.98	1.71		1.22		0.76	0.41		0.33
Total		8.41	37.16	23.98	46.35	67.40	40.52	32.40	23.36	15.97	13.10	11.31
Mean		0.27	1.23	0.74	1.48	2.25	1.31	1.08	0.75	0.52	0.46	0.35
Max.		0.65	4.85	2.48	5.66	14	3.41	1.71	1.15	0.76	0.71	0.49
Min.		0.08	0.41	0.41	0.52	0.98	0.49	0.76	0.49	0.30	0.33	0.26
Runoff – MCM.		0.727	3.211	1.994	4.005	5.823	3.501	2.799	2.018	1.380	1.132	0.977

WATER YEAR 1955 : Max. 14 Min. 0.08 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21	09.00	319.29	35				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 from bridge, on highway Chiang Mai - Fang, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 135 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +317.09 m. (M.S.L.)

Bench Mark:

Location: on left bank 9 meters from 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 inadequate of measuring points.

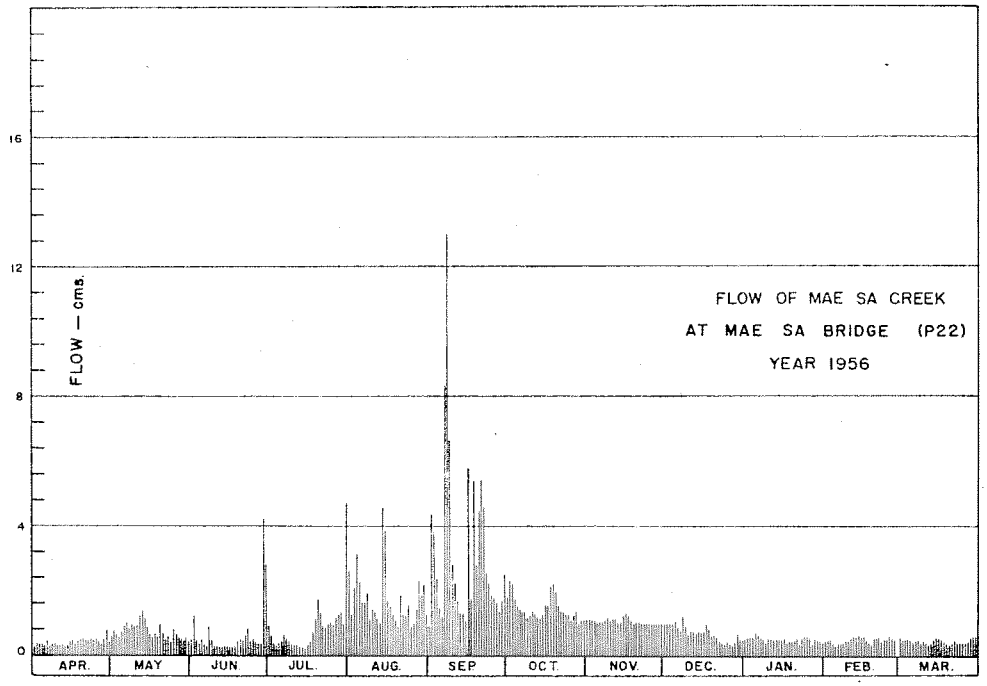
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relationship defined by discharge measurements made during 1954 - 60. Natural flow of stream affected by diversions for irrigation made by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	317.47	317.52	317.54	317.58	317.75	317.60	317.75	317.65	317.63	317.54	317.51	317.54
2	.50	.59	.67	.56	.67	318.00	.81	.65	.63	.55	.51	.52
3	.50	.57	.53	.50	.78	317.94	.80	.65	.63	.55	.52	.53
4	.50	.55	.50	.49	.90	.75	.74	.65	.63	.55	.50	.53
5	.48	.59	.53	.51	.82	.69	.71	.64	.64	.58	.47	.52
6	317.52	317.62	317.49	317.52	317.73	317.65	317.70	317.64	317.61	317.57	317.49	317.50
7	.48	.64	.48	.57	.73	318.21	.69	.64	.58	.55	.49	.51
8	.49	.60	.62	.53	.77	.52	.69	.64	.67	.54	.49	.51
9	.50	.55	.51	.50	.64	317.99	.66	.66	.58	.49	.51	.49
10	.48	.54	.49	.50	.70	.86	.67	.65	.56	.54	.51	.52
11	317.48	317.54	317.49	317.49	317.69	317.80	317.69	317.66	317.59	317.53	317.54	317.49
12	.49	.67	.49	.49	.65	.78	.68	.66	.59	.52	.55	.48
13	.47	.70	.48	.47	.63	.69	.66	.63	.57	.53	.55	.50
14	.48	.66	.48	.47	318.09	.68	.66	.62	.59	.53	.56	.54
15	.51	.60	.48	.46	317.93	.65	.67	.67	.58	.52	.55	.53
16	317.52	317.57	317.47	317.47	317.74	318.11	317.72	317.68	317.57	317.53	317.55	317.53
17	.49	.55	.47	.51	.71	317.79	.71	.67	.63	.48	.51	.52
18	.52	.57	.49	.55	.67	318.08	.79	.64	.60	.51	.50	.51
19	.53	.55	.51	.65	.64	317.86	.80	.63	.53	.51	.47	.49
20	.53	.63	.53	.74	.61	.96	.77	.64	.57	.51	.54	.47
21	317.52	317.57	317.52	317.67	317.76	318.08	317.71	317.64	317.54	317.53	317.53	317.49
22	.52	.53	.56	.60	.67	.01	.60	.63	.51	.47	.49	.51
23	.53	.56	.60	.61	.67	317.84	.68	.63	.49	.54	.47	.49
24	.52	.51	.51	.63	.72	.81	.67	.63	.49	.55	.52	.50
25	.54	.60	.54	.64	.61	.77	.67	.63	.51	.55	.52	.49
26	317.52	317.57	317.51	317.62	317.63	317.75	317.65	317.63	317.50	317.54	317.55	317.50
27	.49	.55	.50	.66	.61	.73	.67	.63	.48	.47	.55	.50
28	.53	.54	.50	.67	.81	.69	.69	.63	.49	.53	.52	.53
29	.59	.52	.99	.69	.76	.69	.63	.65	.57	.52		.54
30	.50	.55	.77	.59	.80	.83	.65	.63	.53	.51		.55
31		.51		318.03	.65		.65		.52	.50		.54
Mean	317.50	317.57	317.56	317.58	317.73	317.86	317.70	317.64	317.56	317.51	317.50	317.51
Max.	317.59	317.70	317.99	318.03	318.09	318.52	317.81	317.68	317.67	317.58	317.56	317.55
Min.	317.47	317.51	317.47	317.46	317.61	317.60	317.60	317.62	317.48	317.47	317.47	317.47

WATER YEAR 1956 : Max. 318.52 m. Min. 317.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.26	0.45	0.52	0.71	1.78	0.82	1.78	1.09	0.98	0.52	0.41	0.52
2	0.37	0.76	1.22	0.60	1.22	4.35	2.30	1.09	0.98	0.56	0.41	0.45
3	0.37	0.65	0.49	0.37	2.03	3.63	2.21	1.09	0.98	0.56	0.45	0.49
4	0.37	0.56	0.37	0.33	3.19	1.78	1.71	1.09	0.98	0.56	0.37	0.49
5	0.30	0.76	0.49	0.41	2.39	1.36	1.50	1.04	1.04	0.71	0.26	0.45
6	0.45	0.93	0.33	0.45	1.64	1.09	1.43	1.04	0.87	0.65	0.33	0.37
7	0.30	1.04	0.30	0.65	1.64	7.30	1.36	1.04	0.71	0.56	0.33	0.41
8	0.33	0.82	0.93	0.49	1.94	13	1.36	1.04	1.22	0.52	0.33	0.41
9	0.37	0.56	0.41	0.37	1.04	4.22	1.15	1.15	0.71	0.32	0.41	0.33
10	0.30	0.52	0.33	0.37	1.43	2.75	1.22	1.09	0.60	0.52	0.41	0.45
11	0.30	0.52	0.33	0.33	1.36	2.21	1.36	1.15	0.76	0.49	0.52	0.33
12	0.33	1.22	0.33	0.33	1.09	1.71	1.29	1.15	0.76	0.45	0.56	0.30
13	0.26	1.43	0.30	0.26	0.98	1.36	1.15	0.98	0.65	0.49	0.56	0.37
14	0.30	1.15	0.30	0.26	5.52	1.29	1.15	0.93	0.76	0.49	0.60	0.52
15	0.41	0.82	0.30	0.22	3.52	1.09	1.22	1.22	0.71	0.45	0.56	0.49
16	0.45	0.65	0.26	0.26	1.71	5.80	1.57	1.29	0.65	0.49	0.56	0.49
17	0.33	0.56	0.26	0.41	1.50	2.12	1.50	1.22	0.98	0.30	0.41	0.45
18	0.45	0.65	0.33	0.56	1.22	5.38	2.12	1.04	0.82	0.41	0.37	0.41
19	0.49	0.56	0.41	1.09	1.04	2.75	2.21	0.94	0.49	0.41	0.26	0.33
20	0.49	0.98	0.49	1.71	0.87	4.10	1.94	1.04	0.65	0.41	0.52	0.26
21	0.45	0.65	0.45	1.22	1.85	5.38	1.50	1.04	0.52	0.49	0.49	0.33
22	0.45	0.49	0.60	0.82	1.22	4.47	1.36	0.98	0.41	0.26	0.33	0.41
23	0.49	0.60	0.82	0.87	1.22	2.57	1.29	0.98	0.33	0.52	0.26	0.33
24	0.45	0.41	0.41	0.98	1.57	2.30	1.22	0.98	0.33	0.56	0.45	0.37
25	0.52	0.82	0.52	1.04	0.87	1.94	1.22	0.98	0.41	0.56	0.45	0.33
26	0.45	0.65	0.41	0.93	0.98	1.78	1.09	0.98	0.37	0.52	0.56	0.37
27	0.33	0.56	0.37	1.15	0.87	1.64	1.22	0.98	0.30	0.26	0.52	0.37
28	0.49	0.52	0.37	1.22	2.30	1.36	1.36	0.98	0.33	0.49	0.45	0.49
29	0.76	0.45	4.22	1.36	1.85	1.36	0.98	0.98	0.65	0.45		0.52
30	0.37	0.56	1.94	0.76	2.21	2.48	1.09	0.98	0.49	0.41		0.56
31		0.41		4.72	1.09		1.09		0.45	0.37		0.52
Total	11.99	21.71	18.81	25.25	53.14	93.39	44.95	31.69	20.89	14.76	12.14	12.92
Mean	0.40	0.70	0.63	0.81	1.71	3.10	1.45	1.06	0.67	0.48	0.42	0.42
Max.	0.76	1.43	4.22	4.72	5.52	13	2.30	1.29	1.22	0.71	0.60	0.56
Min.	0.26	0.41	0.26	0.22	0.87	0.82	0.98	0.93	0.30	0.26	0.26	0.26
Runoff - mcm.	1.036	1.876	1.625	2.182	4.591	8.069	3.884	2.738	1.805	1.275	1.116	1.116

WATER YEAR 1956 : Max. 13 Min. 0.22 Mean 0.99 Annual Runoff 31.246 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 8	06.00	318.96	24				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PING RIVER BASIN

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

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

Drainage Area: 1,777 sq.km.

Type of Gage: Staff gage.

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

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

Location: On left bank at Mae Khan Bridge
Elevation: +29.767 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, 1969 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1955 - 60, 1969 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

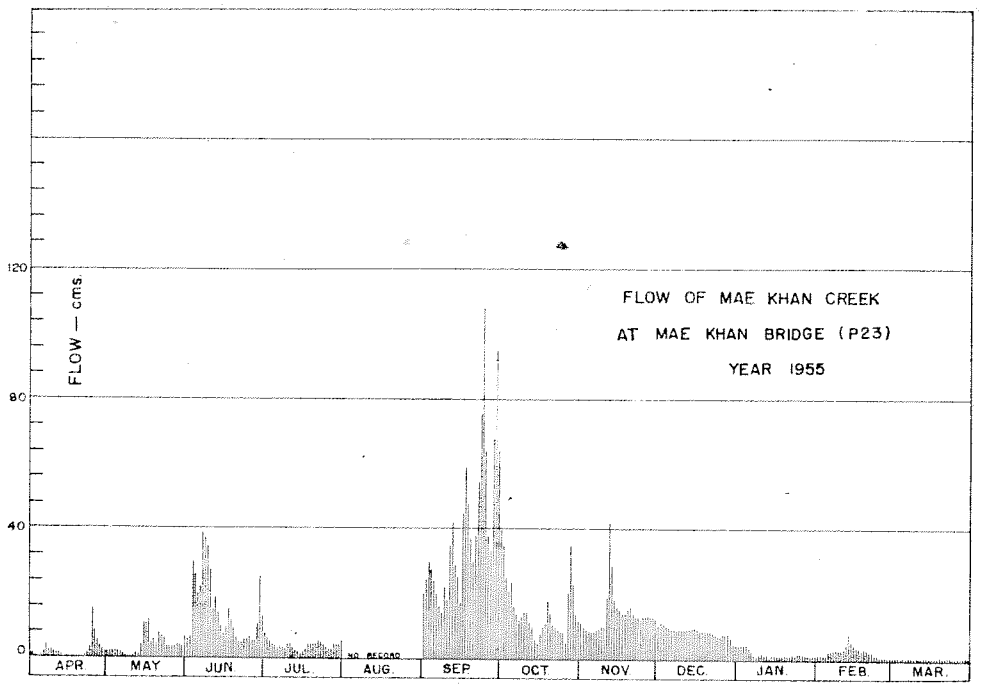
General Description: Records fair except those for period of no gage height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage - height record for period Aug. 1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.68	286.76	286.89	286.93		287.25	287.66	287.09	287.07	286.79	286.64	286.48
2	.48	.77	.96	.87		.33	.56	.06	.05	.78	.63	.45
3	.42	.76	287.63	.83		.44	.36	.00	.05	.79	.65	.45
4	.41	.77	.45	.80		.39	.27	286.99	.05	.77	.68	.42
5	.40	.76	.35	.77		.31	.32	.97	.05	.74	.75	.45
6	286.60	286.75	287.34	286.74		287.24	287.11	286.96	287.03	286.71	286.76	286.47
7	.81	.71	.75	.78		.14	.06	.95	.03	.65	.77	.46
8	.74	.67	.69	.76		.10	.01	.95	.02	.64	.78	.39
9	.73	.63	.63	.72		.30	.01	.97	.02	.67	.77	.43
10	.68	.69	.44	.80		.19	.08	.97	.01	.78	.76	.44
11	286.63	286.66	287.17	286.80		287.55	287.10	287.07	287.01	286.76	286.78	286.42
12	.51	.71	.25	.73		.68	.02	.67	.01	.75	.85	.41
13	.44	.71	.12	.71		.40	286.98	.37	.01	.75	.97	.40
14	.42	.85	.00	.68		.36	.95	.19	.01	.76	.90	.41
15	.40	287.09	286.92	.65		.15	.92	.12	.00	.75	.83	.43
16	286.40	287.11	286.96	286.66		287.71	286.89	287.11	287.00	286.73	286.80	286.42
17	.40	.14	287.12	.72		.96	.91	.10	286.99	.72	.80	.41
18	.38	286.89	.04	.80		.77	.93	.09	.99	.73	.78	.41
19	.38	.95	286.95	.80		.62	287.14	.15	.99	.74	.76	.42
20	.37	.85	.85	.79		.50	.07	.14	.99	.73	.76	.43
21	286.51	286.98	286.81	286.79		287.64	286.97	287.10	286.98	286.73	286.73	286.42
22	.56	.94	.79	.82		.94	.95	.09	.96	.71	.72	.42
23	.57	.85	.85	.81		288.08	.92	.09	.95	.71	.66	.42
24	.80	.82	.86	.78		.64	.91	.07	.94	.72	.60	.41
25	287.17	.82	.88	.75		287.92	.91	.09	.93	.72	.55	.41
26	287.01	286.83	286.85	286.73		287.59	286.89	287.09	286.93	286.68	286.51	286.41
27	286.88	.83	.83	.72		.59	287.24	.09	.93	.65	.51	.42
28	.80	.83	.86	.79		288.11	.58	.08	.95	.65	.50	.42
29	.75	.82	287.35	.80		.61	.25	.09	.90	.66	.49	.42
30	.71	.83	.07	.73		287.86	.14	.08	.82	.64		.41
31		.95		.85			.10		.79	.64		.40
Mean	286.60	286.82	287.12	286.77		287.81	287.10	287.09	286.98	286.72	286.71	286.42
Max.	287.17	287.14	287.73	286.93		288.64	287.66	287.67	287.07	286.79	286.97	286.48
Min.	286.37	286.63	286.83	286.65		287.10	286.89	286.95	286.79	286.64	286.49	286.39

WATER YEAR 1955 : Max. m. Min. 286.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.56	1.91	5.87	7.96		20	39	11	9.20	4.48	1.28	0.44
2	0.44	2.12	6.41	6.10		24	34	9.94	11	4.26	1.21	0.35
3	0.26	1.91	30	5.18		30	25	8.58	11	4.49	1.35	0.35
4	0.23	2.12	25	4.49		28	21	8.58	10	4.03	1.56	0.26
5	0.20	1.91	20	3.80		24	24	8.27	9.94	3.38	2.55	0.35
6	1.00	1.70	19	2.96		20	16	8.58	9.20	2.33	2.72	0.41
7	3.60	1.22	39	3.80		16	14	8.89	9.20	1.10	2.89	0.38
8	2.38	0.74	37	3.38		14	12	9.20	9.20	0.74	3.06	0.19
9	2.21	0.40	35	2.54		22	13	10	9.20	0.86	2.89	0.29
10	1.56	0.15	27	4.26		18	15	10	8.89	2.12	2.72	0.32
11	1.21	0.62	15	4.49		34	15	14	9.20	1.46	3.06	0.26
12	0.55	1.22	19	2.96		43	11	42	9.20	1.10	4.40	0.23
13	0.32	1.22	14	2.54		29	9.94	26	9.52	0.74	7.50	0.20
14	0.26	3.80	9.94	1.91		27	6.10	18	9.57	0.86	5.40	0.23
15	0.20	11	7.34	1.58		17	4.26	16	9.20	0.98	4.00	0.29
16	0.20	11	8.89	1.70		44	7.34	15	8.89	0.86	3.48	0.26
17	0.20	12	15	2.96		59	10	14	8.58	0.86	3.40	0.23
18	0.18	4.72	12	4.72		46	11	14	8.58	1.10	3.06	0.23
19	0.18	6.10	9.57	4.72		37	18	16	8.58	1.34	3.06	0.26
20	0.17	4.03	5.87	4.72		30	15	16	8.58	1.34	3.06	0.29
21	0.55	7.34	5.18	4.72		36	11	14	8.27	1.46	2.21	0.26
22	0.80	6.41	4.72	5.41		53	9.94	13	7.65	1.34	2.04	0.26
23	0.65	4.26	6.10	5.18		62	8.89	13	7.34	1.46	1.42	0.26
24	3.40	3.59	6.10	4.26		108	8.27	12	7.03	1.70	1.00	0.23
25	15	3.38	6.72	3.59		51	8.27	13	7.03	1.91	0.75	0.23
26	8.79	3.50	5.64	2.96		38	4.95	13	7.34	1.46	0.55	0.23
27	5.00	3.80	5.18	2.75		32	19	13	7.34	1.22	0.55	0.26
28	3.40	4.03	5.87	4.26		62	35	13	7.65	1.22	0.50	0.26
29	2.55	4.03	25	4.49		105	19	13	6.72	1.10	0.47	0.26
30	1.87	3.80	13	3.17		49	14	12	4.72	1.22		0.23
31		6.72		5.87			12		4.72	0.98		0.20
Total	59.12	120.75	444.40	123.43		1,178	470.96	413.04	262.59	53.50	72.06	8.50
Mean	1.97	3.89	14.8	3.98		39.3	15.2	13.8	8.47	1.72	2.48	0.27
Max.	15	12	39	7.96		108	39	42	11	4.49	7.50	0.44
Min.	0.17	0.15	4.72	1.58		14	4.26	8.27	4.72	0.74	0.47	0.20
Runoff - mcm.	5.108	10.433	38.362	10.627		101.779	40.694	35.683	22.688	4.622	6.221	0.734

WATER YEAR 1955 : Max. Min. 0.15 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 24	09.00	288.72	115				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 bridge, on highway Chiang Mai - Hot, Amphoe San Pa Tong, Chiang Mai.

Drainage Area: 1,777 sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M. - N.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, 1969 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1955 - 60, 1969 - Cont'd.

Stability of Channel Regimes: Fairly stable, no shifting adjustment for flow computation due to madequate of measureing points.

Overbank Flow Conditions: No overbank flow.

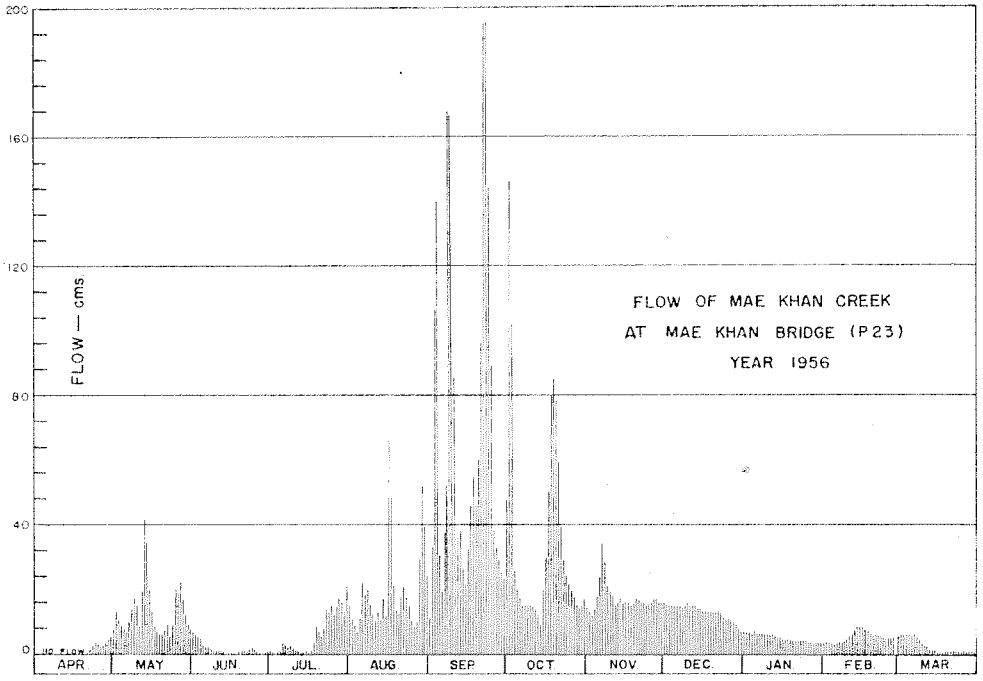
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.40	287.00	286.98	286.68	287.17	286.97	287.68	287.17	287.22	286.96	286.84	286.92
2	.40	.14	.94	.64	.08	287.46	288.65	.14	.21	.96	.84	.93
3	.40	.11	.90	.63	.03	288.60	287.80	.12	.21	.96	.83	.93
4	.40	.02	.83	.65	286.96	287.69	.41	.17	.20	.96	.82	.93
5	.40	.00	.80	.69	287.05	.43	.28	.26	.20	.96	.81	.92
6	286.39	286.97	286.77	286.85	287.35	287.23	287.24	287.34	287.19	186.95	286.82	286.93
7	.39	287.06	.75	.79	.27	.70	.21	.55	.19	.95	.84	.92
8	.39	.18	.72	.76	.31	288.80	.21	.46	.18	.95	.85	.90
9	.39	.25	.70	.81	.19	.99	.20	.30	.20	.94	.86	.86
10	.39	.20	.70	.70	.11	.27	.19	.28	.22	.94	.88	.81
11	286.40	286.87	286.69	286.68	287.07	287.74	287.19	187.26	287.21	286.93	286.92	286.78
12	.40	287.25	.67	.65	.16	.59	.17	.20	.20	.93	.95	.73
13	.40	.66	.63	.61	.08	.61	.09	.22	.19	.92	.99	.67
14	.40	.49	.59	.63	.24	.40	.04	.24	.18	.92	287.03	.65
15	.41	.27	.57	.65	.08	.33	.35	.23	.17	.90	.02	.66
16	286.41	287.10	286.56	286.64	287.96	287.52	287.40	287.23	287.15	186.88	287.01	286.64
17	.42	.01	.54	.71	.64	.75	.72	.22	.15	.88	286.99	.64
18	.42	286.96	.58	.85	.30	.84	288.06	.21	.14	.88	.96	.63
19	.44	.93	.65	287.01	.18	.72	.15	.23	.14	.87	.95	.62
20	.45	.95	.68	286.97	.10	.91	.05	.25	.15	.87	.94	.62
21	286.54	286.99	286.66	286.92	287.27	288.21	287.87	287.24	287.15	286.86	286.93	286.61
22	.71	287.04	.67	287.00	.32	.99	.58	.23	.14	.86	.93	.61
23	.85	286.91	.73	.17	.25	.99	.46	.22	.12	.86	.92	.62
24	.83	287.08	.77	.16	.09	.26	.38	.21	.11	.86	.91	.62
25	.81	.31	.69	.21	.04	287.99	.33	.22	.10	.86	.91	.63
26	286.76	287.29	286.64	287.12	287.01	287.62	287.30	287.22	287.09	286.85	286.90	286.63
27	.82	.34	.61	.17	286.98	.53	.24	.24	.08	.85	.90	.63
28	.85	.20	.58	.24	287.27	.47	.20	.24	.06	.85	.91	.63
29	.89	.09	.63	.23	.80	.41	.18	.23	.04	.85		.63
30	.95	.03	.64	.16	.62	.36	.19	.22	.00	.85		.63
31		286.99		.32	.39		.25		286.97	.85		.63
Mean	286.58	287.12	286.69	286.88	287.20	287.85	287.45	287.24	287.15	286.90	286.91	286.71
Max.	286.95	287.66	286.98	287.32	287.96	288.99	288.65	287.55	287.22	286.96	287.03	286.93
Min.	286.39	286.87	286.54	286.61	286.96	286.97	287.04	287.12	286.97	286.85	286.81	286.61

WATER YEAR 1956 : Max. 288.99 m. Min. 286.39 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	7.70	7.16	1.12	14	6.89	43	14	16	6.62	3.68	5.54
2		13	6.08	0.76	10	28	146	13	15	6.62	3.68	5.81
3		11	5.00	0.67	8.69	140	52	12	15	6.62	3.46	5.81
4		8.36	3.46	0.85	6.62	43	25	14	15	6.35	3.24	5.81
5		7.70	2.80	1.21	9.35	26	19	18	15	6.62	3.02	5.81
6		6.89	2.35	5.90	22	16	17	22	15	6.35	3.24	5.81
7		9.68	2.05	2.65	18	44	15	34	15	6.35	3.68	5.81
8		14	1.60	2.20	20	167	15	28	14	6.35	5.90	5.00
9		17	1.30	3.02	15	165	15	20	15	6.08	4.12	4.12
10		15	1.30	1.30	11	98	15	19	16	6.08	4.56	3.02
11		4.34	1.21	1.12	10	47	15	18	15	5.81	5.54	2.50
12		17	1.03	0.85	13	36	14	15	15	5.81	6.35	1.75
13		41	0.67	0.49	10	38	11	16	15	5.54	7.34	1.03
14		30	0.36	0.67	17	25	9.02	17	14	5.54	8.69	0.85
15		18	0.28	0.85	10	21	22	15	14	5.00	8.36	0.94
16		11	0.24	0.76	66	32	30	16	13	4.56	8.03	0.76
17		8.03	0.16	1.45	40	48	46	16	13	4.56	7.43	0.76
18		6.62	0.32	3.90	20	55	76	15	13	4.56	6.62	0.67
19		5.81	0.85	8.03	14	46	85	16	13	4.34	6.35	0.58
20	0.00	6.35	1.12	6.89	11	61	75	17	13	4.34	6.08	0.58
21	0.16	7.43	0.94	5.54	18	92	58	17	13	4.12	5.81	0.49
22	1.45	9.02	1.03	7.70	21	195	36	16	13	4.12	5.81	0.49
23	3.90	5.27	1.75	14	17	195	28	16	12	4.12	5.54	0.58
24	3.46	10	2.35	13	11	97	24	15	11	4.12	5.27	0.58
25	3.02	20	1.21	15	9.02	69	21	16	11	4.12	5.27	0.67
26	2.20	19	0.76	12	8.03	39	20	16	11	3.90	5.00	0.67
27	3.24	22	0.49	14	7.16	32	17	17	10	3.00	5.00	0.67
28	3.90	15	0.32	17	18	29	15	17	9.68	3.90	5.27	0.67
29	4.78	11	0.67	16	52	25	14	16	5.02	3.90		0.67
30	6.35	8.69	0.76	13	39	23	15	16	7.70	3.90		0.67
31		7.43		21	24		17		6.89	3.90		0.67
Total	32.46	393.32	49.62	190.93	569.87	1,968.89	1,010.02	518	403.29	158.10	150.	69.79
Mean	1.07	12.7	1.67	6.16	18.4	65.6	32.6	17.3	13.0	5.10	5.36	2.26
Max.	6.35	41	7.16	21	66	195	146	34	16	6.62	8.69	5.81
Min.	0.00	4.34	0.16	0.49	6.62	6.89	9.02	12	6.89	3.90	3.02	0.49
Runoff — mcm.	2.765	33.955	4.320	16.502	49.280	170.122	87.264	44.755	34.819	13.651	12.960	6.048

WATER YEAR 1956 : Max. 195 Min. 0.00 Mean 15.1 Annual Runoff 476.464 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.22	18.00	289.35	255				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 bridge on highway Chiang Mai - Hot, Amphoe Chom Thong, Chiang Mai.

Drainage Area: 616 sq.km.

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: Unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

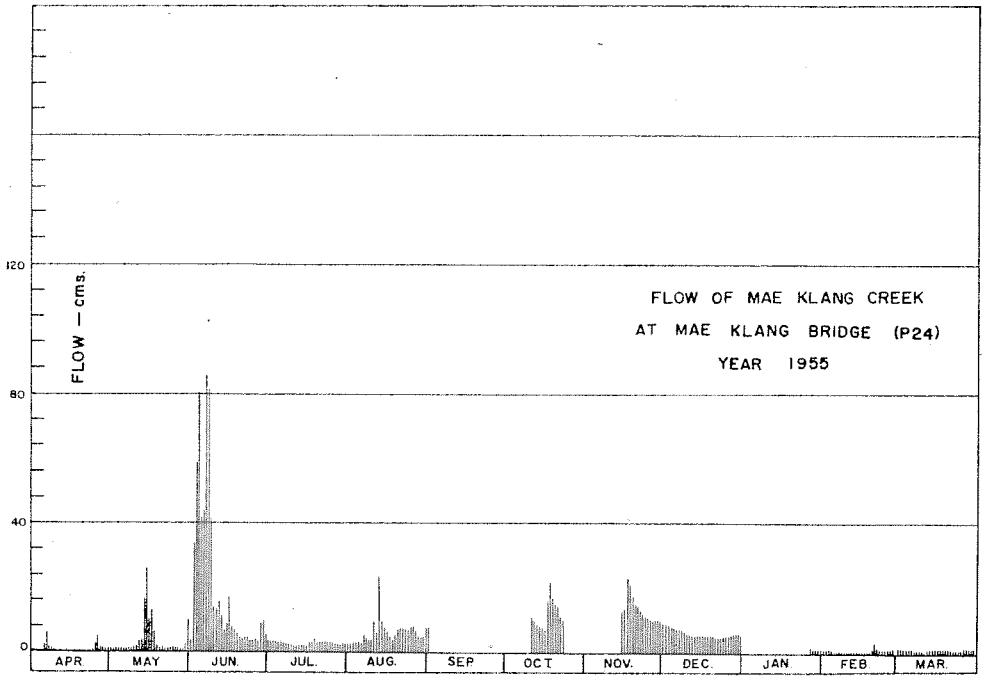
General Description: Records fair except those for period of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements during 1955 - 56. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage-height record for periods Sept.1-30, Oct. 1-10, Oct.24-31, Nov.1-14 and Jan. 1 - 25.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	0.32	0.53	0.49	0.45				0.74		0.38	0.32
2	0.23	0.30	0.99	0.49	0.45				0.74		0.38	0.30
3	0.22	0.27	1.39	0.49	0.45				0.72		0.38	0.31
4	0.22	0.25	2.06	0.47	0.45				0.71		0.37	0.29
5	0.22	0.25	1.21	0.45	0.44				0.70		0.29	0.29
6	0.65	0.24	1.05	0.48	0.44				0.69		0.28	0.29
7	0.39	0.23	2.12	0.45	0.57				0.69		0.26	0.28
8	0.35	0.23	2.06	0.46	0.53				0.69		0.25	0.26
9	0.30	0.23	1.01	0.45	0.50				0.66		0.25	0.25
10	0.30	0.23	0.85	0.42	0.50				0.64		0.26	0.26
11	0.20	0.47	0.81	0.40	0.73		0.79		0.63		0.25	0.26
12	0.29	0.38	0.86	0.38	0.63		0.77		0.62		0.25	0.27
13	0.29	0.47	0.78	0.41	1.08		0.73		0.62		0.26	0.28
14	0.27	0.73	0.61	0.40	0.83		0.71		0.62		0.25	0.29
15	0.25	1.06	0.63	0.41	0.73		0.70	0.76	0.61		0.26	0.30
16	0.23	0.76	0.86	0.39	0.68		0.69	0.77	0.61		0.26	0.30
17	0.21	0.83	0.64	0.48	0.61		0.68	0.95	0.61		0.25	0.32
18	0.21	0.65	0.61	0.57	0.57		0.98	0.92	0.61		0.25	0.33
19	0.20	0.42	0.57	0.50	0.61		0.86	0.86	0.61		0.25	0.31
20	0.21	0.38	0.50	0.44	0.66		0.78	0.83	0.61		0.26	0.28
21	0.25	0.44	0.49	0.45	0.66		0.74	0.81	0.61		0.51	0.26
22	0.34	0.40	0.52	0.49	0.65		0.72	0.80	0.60		0.44	0.24
23	0.31	0.41	0.53	0.46	0.64		0.71	0.78	0.60		0.36	0.24
24	0.30	0.41	0.48	0.45	0.63			0.76	0.60		0.31	0.23
25	0.53	0.45	0.48	0.44	0.65			0.75	0.60		0.29	0.25
26	0.64	0.45	0.49	0.42	0.68			0.75	0.60		0.29	0.25
27	0.42	0.44	0.46	0.43	0.64			0.75	0.60	0.42	0.30	0.26
28	0.39	0.43	0.68	0.41	0.63			0.75	0.60	0.41	0.33	0.29
29	0.37	0.40	0.70	0.40	0.62			0.75	0.60	0.40		0.28
30	0.34	0.40	0.56	0.40	0.64			0.74	0.60	0.39		0.30
31		0.80		0.45	0.73				0.61	0.38		0.27
Mean	0.31	0.44	0.85	0.44	0.61				0.64		0.30	0.28
Max.	0.65	1.06	2.12	0.57	1.08				0.74		0.44	0.33
Min.	0.20	0.23	0.46	0.38	0.45				0.60		0.25	0.24

WATER YEAR 1955 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.62	1.20	3.35	3.90	2.92				9.10		1.04	1.04
2	0.50	1.12	19	3.90	2.92				8.70		1.12	0.90
3	0.40	0.97	52	3.90	3.20				8.10		1.12	0.97
4	0.40	0.90	81	3.50	3.20				7.75		1.12	0.85
5	0.38	0.97	33	3.20	3.20				7.40		0.62	0.85
6	5.70	0.97	21	3.90	3.20				7.20		0.62	0.85
7	1.40	0.97	86	3.20	5.85				7.20		0.50	0.80
8	0.96	1.04	81	2.92	4.80				7.20		0.50	0.70
9	0.70	0.97	22	2.85	4.10				6.40		0.50	0.62
10	0.62	0.90	14	2.42	5.90				5.70		0.55	0.75
11	0.62	3.90	13	2.15	9.75		11		5.50		0.55	0.75
12	0.55	2.30	16	1.90	5.75		10		5.30		0.55	0.80
13	0.55	3.35	12	2.42	24		8.70		5.30		0.55	0.85
14	0.45	10	7.00	2.30	10		8.10		5.50		0.55	0.90
15	0.34	26	7.75	2.42	7.75		7.75	13	5.50		0.64	0.97
16	0.26	10	17	2.15	6.70		7.40	14	5.50		0.62	0.97
17	0.20	13	8.10	3.50	5.05		7.00	23	5.50		0.55	1.12
18	0.20	6.70	7.20	5.50	4.30		22	20	5.30		0.55	1.12
19	0.18	1.90	6.40	4.10	5.70		17	17	5.30		0.55	1.20
20	0.18	1.40	4.55	3.20	7.40		15	15	5.30		0.62	0.85
21	0.18	1.80	4.10	3.50	7.75		14	14	5.05		3.20	0.80
22	0.75	1.20	4.80	3.50	7.37		11	13	4.80		2.30	0.70
23	0.50	1.20	4.80	3.70	7.40		9.50	12	4.80		1.40	0.70
24	0.50	1.20	3.70	3.50	7.20			11	5.05		0.97	0.70
25	2.60	1.60	3.70	3.35	7.75			11	5.30		0.85	0.80
26	5.05	1.60	4.10	3.03	8.70			10	5.50		0.85	0.80
27	1.60	1.40	3.50	3.03	6.70			10	5.50	1.30	0.90	0.85
28	1.40	1.20	9.50	2.60	5.50			10	5.70	1.20	1.12	1.04
29	1.30	0.90	10	2.55	4.80			9.75	5.70	1.04		0.97
30	1.12	1.20	5.70	2.55	4.80			9.75	5.70	1.04		1.20
31		10		3.20	7.40				6.05	0.97		0.97
Total	30.21	111.86	565.25	98.64	199.44				187.90		25.01	27.39
Mean	1.00	3.61	18.8	3.18	6.43				6.06		0.89	0.88
Max.	5.70	26	86	5.50	24				9.10		3.20	1.20
Min.	0.18	0.90	3.35	1.90	2.92				4.80		0.50	0.62
Runoff - MCM.	2.610	9.665	48.838	8.522	17.232				16.243		2.161	2.366

WATER YEAR 1955 : Max. 86 Min. 0.18 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
WANG 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 bridge on highway Chiang Mai - Hot, Amphoe Chom Tong, Chiang Mai.

Drainage Area: 616 sq.km.

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: Stable, no shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

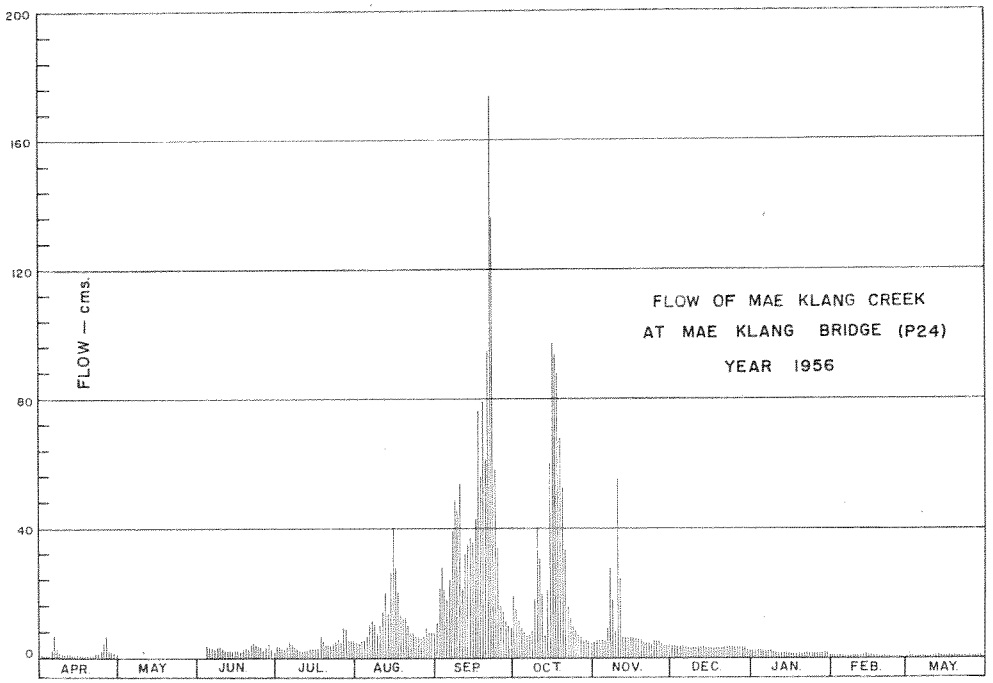
General Description: Records fair except those for period of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1955 - 56. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

Remarks: * Q. was obtained by average rating curve made during 1955 - 60.
No gage - height record for May 1 to June 5.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25			0.53	0.56	0.68	0.96	0.58	0.52	0.40	0.27	0.17
2	0.23			0.49	0.55	0.98	0.85	0.60	0.51	0.40	0.27	0.17
3	0.22			0.47	0.59	1.10	0.77	0.59	0.51	0.40	0.26	0.17
4	0.22		0.50	0.45	0.61	0.97	0.73	0.58	0.51	0.40	0.26	0.17
5	0.22		0.49	0.52	0.65	0.94	0.68	0.58	0.50	0.40	0.25	0.17
6	0.65		0.49	0.58	0.74	1.00	0.60	0.58	0.49	0.39	0.25	0.17
7	0.39		0.48	0.54	0.78	1.16	0.64	1.09	0.49	0.40	0.25	0.17
8	0.35		0.49	0.49	0.75	1.33	0.70	0.80	0.49	0.40	0.25	0.17
9	0.30		0.50	0.45	0.64	1.55	0.90	0.68	0.49	0.40	0.25	0.17
10	0.30		0.45	0.42	0.74	1.68	1.45	1.39	0.49	0.40	0.25	0.17
11	0.30		0.44	0.42	0.85	0.99	1.11	0.67	0.49	0.40	0.25	0.17
12	0.29		0.44	0.44	0.97	1.15	0.82	0.63	0.49	0.38	0.25	0.17
13	0.29		0.42	0.45	0.80	1.19	0.63	0.63	0.49	0.36	0.25	0.17
14	0.27		0.41	0.45	0.95	1.21	0.78	0.63	0.48	0.34	0.29	0.17
15	0.25		0.40	0.48	1.24	1.20	1.38	0.63	0.48	0.34	0.27	0.17
16	0.23		0.41	0.48	1.08	1.41	2.26	0.62	0.48	0.34	0.27	0.17
17	0.21		0.40	0.49	0.93	1.99	2.21	0.62	0.48	0.33	0.25	0.17
18	0.21		0.46	0.64	0.80	1.71	2.15	0.62	0.47	0.33	0.23	0.17
19	0.20		0.46	0.61	0.80	2.03	1.92	0.59	0.47	0.32	0.21	0.17
20	0.21		0.43	0.52	0.80	1.78	1.43	0.57	0.52	0.32	0.20	0.17
21	0.25		0.54	0.52	0.75	2.05	1.10	0.55	0.51	0.31	0.18	0.17
22	0.34		0.56	0.52	0.69	3.02	0.88	0.54	0.50	0.31	0.17	0.17
23	0.31		0.53	0.70	0.67	2.25	0.78	0.53	0.50	0.32	0.17	0.17
24	0.30		0.51	0.59	0.63	1.34	0.73	0.54	0.49	0.34	0.17	0.17
25	0.53		0.50	0.62	0.63	1.11	0.69	0.54	0.48	0.35	0.17	0.16
26	0.64		0.42	0.56	0.62	0.88	0.65	0.54	0.47	0.36	0.17	0.16
27	0.42		0.46	0.73	0.60	0.85	0.61	0.53	0.46	0.32	0.17	0.16
28	0.39		0.54	0.72	0.64	0.79	0.59	0.53	0.45	0.29	0.17	0.16
29	0.37		0.44	0.60	0.73	0.75	0.59	0.52	0.43	0.28		0.15
30	0.34		0.41	0.59	0.69	0.73	0.57	0.52	0.41	0.27		0.15
31				0.58	0.68		0.55		0.40	0.27		0.15
Mean	0.32			0.54	0.75	1.33	0.99	0.63	0.48	0.35	0.23	0.17
Max.	0.65			0.73	1.24	3.02	2.26	1.39	0.52	0.40	0.27	0.17
Min.	0.20			0.42	0.55	0.68	0.55	0.52	0.40	0.27	0.17	0.15

WATER YEAR 1956 : Max. 3.02 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.65			3.83	4.46	7.54	19	4.88	3.62	1.80	0.75	0.31
2	0.55			3.06	4.25	21	14	5.30	3.41	1.80	0.75	0.31
3	0.50			2.78	5.09	28	11	5.09	3.41	1.80	0.70	0.31
4	0.50		3.20	2.50	5.58	21	9.24	4.88	3.41	1.80	0.70	0.31
5	0.50		3.06	3.62	6.70	18	7.54	4.88	3.20	1.80	0.65	0.31
6	6.70		3.06	4.88	9.62	22	6.98	4.88	3.06	1.71	0.65	0.31
7	1.71		2.92	4.04	11	33	6.42	27	3.06	1.80	0.65	0.31
8	1.35		3.06	3.06	10	35	8.10	12	3.06	1.80	0.65	0.31
9	0.90		3.20	2.50	6.42	*46	16	7.54	3.06	1.80	0.65	0.31
10	0.90		2.50	2.08	9.62	*54	*40	55	3.06	1.80	0.65	0.31
11	0.90		2.36	2.08	14	21	29	7.26	3.06	1.80	0.65	0.31
12	0.85		2.36	2.36	20	32	13	6.14	3.06	1.62	0.65	0.31
13	0.85		2.08	2.50	12	35	6.14	6.14	3.06	1.44	0.65	0.31
14	0.75		1.94	2.50	19	37	11	6.14	2.92	1.26	0.85	0.31
15	0.65		1.80	2.92	40	36	54	6.14	2.92	1.26	0.75	0.31
16	0.55		1.94	2.92	27	*38	98	5.86	2.92	1.26	0.75	0.31
17	0.45		1.80	3.06	18	*26	93	5.86	2.42	1.17	0.65	0.31
18	0.45		2.64	6.42	12	*56	88	5.86	2.78	1.17	0.55	0.31
19	0.40		2.64	5.58	12	*79	70	5.09	2.78	1.08	0.45	0.31
20	0.45		2.22	3.62	12	*61	39	4.67	3.62	1.08	0.40	0.31
21	0.65		4.04	3.62	10	*80	28	4.25	3.41	0.99	0.34	0.31
22	1.26		4.46	3.62	7.82	*173	15	4.04	3.20	0.99	0.31	0.31
23	0.99		3.83	8.10	7.26	*97	11	3.83	3.20	1.08	0.31	0.31
24	0.90		3.41	5.09	6.14	50	9.24	4.04	3.06	1.26	0.31	0.31
25	3.83		3.20	5.86	6.14	29	7.82	4.04	2.92	1.35	0.31	0.28
26	6.42		2.08	4.46	5.86	15	6.70	4.04	2.78	1.44	0.31	0.28
27	2.08		2.64	9.24	5.30	14	5.58	3.83	2.64	1.08	0.31	0.28
28	1.71		4.04	8.86	6.42	11	5.09	3.83	2.50	0.85	0.31	0.28
29	1.53		2.36	5.30	9.24	10	5.09	3.62	2.22	0.80		0.25
30	1.26		1.94	5.09	7.82	9.24	4.67	3.62	1.94	0.75		0.25
31				4.88	7.54		4.25		1.80	0.75		0.25
Total	41.19			130.43	338.28	1,244.78	741.86	229.75	92.06	42.39	15.66	9.31
Mean	1.37			4.21	10.9	41.5	23.9	7.66	2.97	1.37	0.56	0.30
Max.	6.70			9.24	40	173	98	55	3.62	1.80	0.75	0.31
Min.	0.40			2.08	4.25	7.54	4.25	3.62	1.80	0.75	0.31	0.25
Runoff - mcm.	3.559			11.269	29.227	107.549	64.097	19.850	7.954	3.662	1.353	0.804

WATER YEAR 1956 : Max. 173 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 22	06.00	3.60	244				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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.

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 slaughter house.
Elevation: +233.733 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: 1929 - 1949, 1951 - 1967

Rating Operation:

Period of Rating: 1955 - 62
Rated by Float: -
Rated by Current Meter: 1955 - 62

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 good, except those for period of no gage - height record which are poor stage - discharge relation used is defined by discharge measurements made during 1955 - 61. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

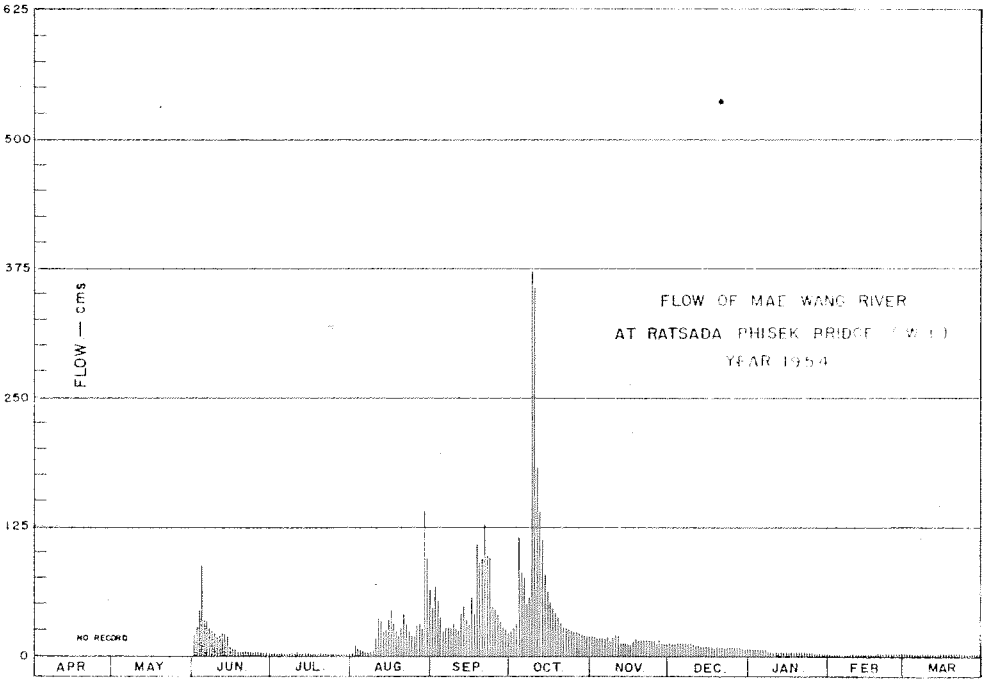
Remarks: No gage - height record for period Apr.1 to May 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			229.47	228.91	228.90	230.00	229.57	229.45	229.27	229.14	228.89	228.85
2			.65	.91	229.18	.25	.65	.44	.27	.14	.88	.86
3			.94	.91	.10	.09	.77	.42	.26	.13	.88	.85
4			230.49	.90	.04	229.83	230.77	.42	.28	.13	.87	.85
5			229.77	.89	.00	.56	.50	.42	.26	.14	.86	.85
6			229.77	228.88	228.98	229.63	230.36	229.41	229.28	229.11	228.87	228.85
7			.64	.86	.94	.64	.04	.45	.29	.04	.87	.85
8			.56	.86	.94	.65	.13	.36	.29	229.98	.87	.83
9			.51	.86	229.06	.73	232.34	.45	.30	.99	.87	.83
10			.41	.85	.43	.66	.26	.49	.26	.96	.86	.84
11			229.48	228.95	229.84	229.60	231.32	229.46	229.24	228.97	228.85	228.85
12			.53	.91	.76	.89	230.99	.29	.22	.95	.86	.85
13			.50	.89	.55	230.01	.73	.29	.21	.95	.86	.84
14			.45	.90	.59	229.81	.41	.29	.21	.94	.86	.84
15			.15	.91	.80	.74	.22	.27	.22	.96	.86	.84
16			229.09	228.91	229.95	230.14	230.10	229.25	229.21	228.96	228.85	228.83
17			.00	.90	.73	229.90	.00	.33	.16	.95	.85	.82
18			228.95	.88	.55	230.69	229.92	.39	.16	.94	.85	.82
19			.95	.88	.48	.52	.83	.37	.16	.94	.85	.82
20			.94	.90	.65	.56	.75	.38	.16	.95	.86	.82
21			228.94	228.90	229.91	230.87	229.65	229.38	229.16	228.94	228.87	228.81
22			.92	.89	.72	.58	.64	.38	.16	.95	.87	.81
23			.91	.86	.57	.23	.62	.36	.16	.95	.87	.81
24			.92	.85	.47	.00	.59	.35	.16	.91	.86	.81
25			.92	.85	.44	229.97	.57	.34	.16	.91	.86	.81
26			228.93	228.85	229.69	229.89	229.54	229.30	229.16	228.90	228.86	228.80
27			.91	.85	.74	.77	.54	.37	.16	.89	.85	.83
28			.90	.85	.66	.66	.53	.30	.16	.89	.85	.84
29			.90	.84	230.99	.61	.49	.28	.15	.89		.84
30			.90	.84	.57	.52	.46	.26	.15	.89		.86
31				.85	.21		.44		.14	.89		.87
Mean			229.28	228.88	229.58	229.97	230.13	229.36	229.21	228.98	228.86	228.83
Max.			230.49	228.95	230.99	230.87	232.34	229.49	229.30	229.14	228.89	228.87
Min.			228.90	228.84	228.90	229.52	229.44	229.26	229.14	228.89	228.85	228.81

WATER YEAR 1954 : Max. 232.34 m. Min. 228.81 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			19	2.45	2.25	42	23	18	11	7.45	2.14	1.70
2			27	2.45	8.65	66	27	18	11	7.45	2.03	1.81
3			43	2.45	6.25	53	33	17	11	7.15	2.03	1.70
4			87	2.25	5.05	37	115	17	12	7.15	1.92	1.70
5			35	2.14	4.25	23	80	17	11	7.45	1.81	1.70
6			33	2.03	3.85	26	75	17	12	6.55	1.92	1.70
7			27	1.81	3.05	27	50	16	12	5.05	1.92	1.70
8			23	1.81	3.05	27	56	15	12	3.85	1.92	1.48
9			21	1.81	5.45	31	371	18	12	4.05	1.92	1.48
10			17	1.70	17	27	353	20	11	3.45	1.81	1.59
11			19	3.25	37	25	182	19	10	3.65	1.70	1.70
12			22	2.45	33	40	139	12	10	3.25	1.81	1.70
13			20	2.14	23	48	111	12	9.55	3.25	1.81	1.59
14			18	2.25	24	35	80	12	9.55	3.05	1.81	1.59
15			7.75	2.45	35	31	64	11	9.85	3.45	1.81	1.59
16			6.05	2.45	44	57	54	11	9.55	3.45	1.70	1.48
17			6.25	2.25	31	41	47	13	8.05	3.25	1.70	1.37
18			3.25	2.03	23	107	42	16	8.05	3.05	1.70	1.37
19			3.25	2.03	19	90	37	15	8.05	3.05	1.70	1.37
20			3.05	2.25	27	94	32	15	8.05	3.25	1.81	1.37
21			3.05	2.25	41	126	27	15	8.05	3.05	1.92	1.26
22			2.65	2.14	30	96	27	15	8.05	3.25	1.92	1.26
23			2.45	1.81	23	64	26	15	8.05	3.25	1.92	1.26
24			2.65	1.70	19	47	24	14	8.05	2.45	1.81	1.26
25			2.65	1.70	18	45	23	14	8.05	2.45	1.81	1.26
26			2.85	1.70	29	40	22	12	8.05	2.25	1.81	1.15
27			2.45	1.70	31	33	22	15	8.05	2.14	1.70	1.48
28			2.25	1.70	27	27	22	12	8.05	2.14	1.70	1.59
29			2.25	1.59	139	25	20	12	7.75	2.14		1.59
30			2.25	1.59	95	21	19	11	7.75	2.14		1.81
31				1.70	63		18		7.45	2.14		1.92
Total			464.10	64.03	869.85	1,456	2,221	446	295.05	119.20	51.56	47.58
Mean			15.5	2.06	28.1	48.5	71.6	14.9	9.45	3.88	1.84	1.53
Max.			87	3.25	139	126	371	20	12	7.45	2.14	1.92
Min.			2.25	1.59	2.25	21	18	11	7.45	2.14	1.70	1.15
Runoff — MCM.			40.098	5.532	75.155	125.798	191.894	38.534	25.519	10.342	4.455	4.111

WATER YEAR 1954 : Max. 371 Min. 1.15 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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.

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 slaughter house.
Elevation: + 233.733 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: 1929 - 49, 1951 - 67

Rating Operation:

Period of Rating: 1955 - 62
Rated by Float: -
Rated by Current Meter: 1955 - 62

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

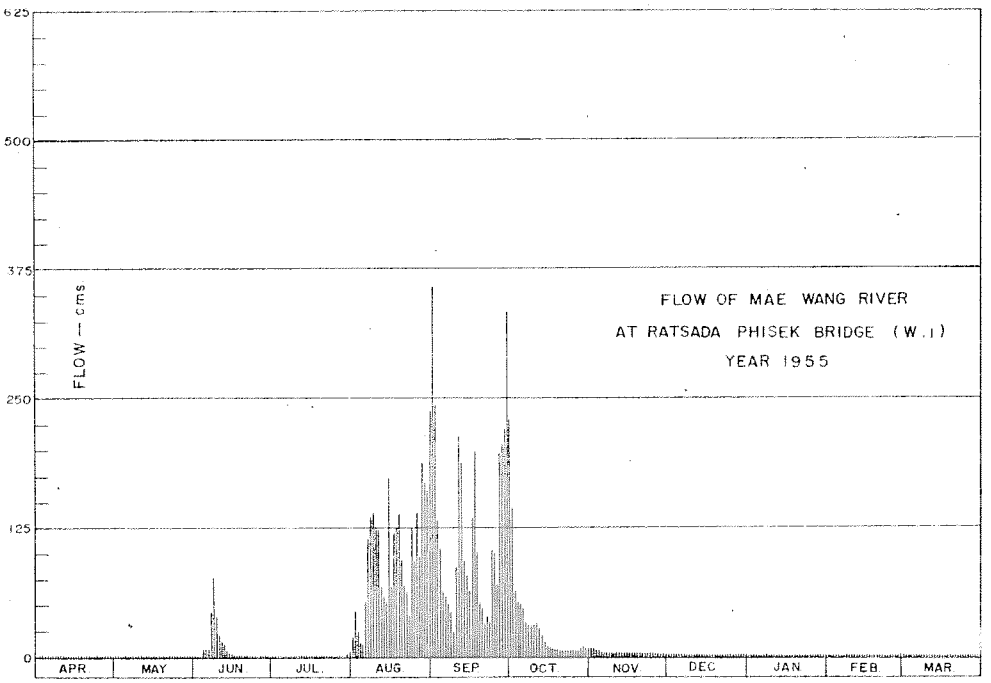
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. 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 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	228.86	228.92	228.99	228.90	229.91	231.75	231.22	229.55	229.28	229.14	228.91	228.89
2	.86	.92	229.23	.90	230.07	.21	230.66	.52	.28	.13	.91	.89
3	.86	.92	.24	.91	229.84	230.57	.22	.50	.30	.12	.91	.89
4	.85	.99	.53	.90	.61	.33	.04	.48	.29	.11	.91	.89
5	.84	229.02	.51	.89	.56	.27	.08	.47	.29	.10	.91	.89
6	228.84	228.96	229.91	228.90	230.14	230.21	230.02	229.45	229.29	229.09	228.91	228.89
7	.84	.86	230.18	.92	.76	.12	229.94	.43	.28	.07	.91	.89
8	.85	.84	.92	.98	.68	.04	.91	.42	.28	.06	.99	.91
9	.83	.84	.13	229.21	.78	229.76	.89	.41	.28	.05	229.04	.89
10	.83	.86	229.87	.10	.58	230.12	.91	.43	.27	.04	.00	.88
11	228.82	228.85	229.70	229.04	230.58	231.14	229.92	229.36	229.27	229.03	228.95	228.87
12	.82	.86	.56	228.95	.20	230.89	.76	.36	.27	.02	.91	.88
13	.82	.88	.49	.95	.12	.41	.72	.35	.26	.02	.91	.89
14	.82	.87	.37	.94	.09	.28	.61	.35	.26	.01	.91	.88
15	.82	229.00	.23	.93	231.01	.14	.54	.34	.26	.01	.91	.88
16	228.82	229.05	229.14	228.93	230.21	230.10	229.48	229.34	229.25	229.00	228.89	228.87
17	.82	.04	.12	.93	.65	.99	.43	.33	.25	228.99	.89	.87
18	.83	.01	.08	.93	.59	.76	.43	.31	.24	.98	.89	.87
19	.85	.15	.06	.93	.66	.12	.42	.31	.24	.98	.89	.86
20	.84	.11	.03	229.06	.55	.03	.42	.30	.24	.97	.89	.86
21	228.84	229.07	229.01	229.14	230.31	229.93	229.42	229.37	229.23	228.96	228.89	228.87
22	.83	228.97	228.98	.05	.20	.97	.41	.35	.23	.95	.89	.87
23	.82	229.01	.96	.02	229.96	.93	.41	.34	.22	.95	.89	.87
24	.82	228.97	.93	.04	230.62	230.46	.41	.33	.21	.94	.89	.86
25	.84	.97	.91	.15	.49	.46	.41	.32	.20	.93	.89	.86
26	228.88	229.00	228.90	229.11	230.70	230.31	229.41	229.32	229.19	228.92	228.89	228.86
27	.86	228.99	.90	.05	.50	231.09	.41	.31	.18	.92	.89	.86
28	.86	229.02	.94	.02	231.09	.18	.52	.30	.17	.92	.89	.85
29	.86	228.99	.91	.02	230.99	.22	.61	.29	.16	.91	.89	.85
30	.86	.98	.91	.33	.85	.55	.58	.28	.15	.91		.84
31		.99		.64	231.32		.57		.15	.91		.83
Mean	228.84	229.96	229.32	229.02	230.44	230.50	229.73	229.37	229.24	229.00	228.91	228.87
Max.	228.86	229.15	230.92	229.64	231.32	231.75	231.22	229.55	229.30	229.14	229.04	228.91
Min.	228.82	228.84	228.90	228.90	229.56	229.76	229.41	229.28	229.15	228.91	228.89	228.83

WATER YEAR 1955 : Max. 231.75 m. Min. 228.82 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.69	1.10	0.18	0.84	22	358	196	7.52	2.15	1.10	0.62	0.50
2	0.69	1.00	2.15	0.84	45	246	143	6.65	2.15	1.00	0.62	0.50
3	0.69	0.84	2.15	0.84	25	138	63	6.90	2.45	1.00	0.62	0.50
4	0.62	1.40	8.76	0.84	15	106	52	5.65	2.45	1.00	0.62	0.50
5	0.56	1.50	8.34	0.64	13	64	52	4.90	2.45	0.93	0.62	0.50
6	0.56	0.77	7.85	0.84	55	58	47	4.90	2.30	0.93	0.62	0.50
7	0.56	0.45	46	1.10	193	51	33	5.15	2.15	0.84	0.62	0.50
8	0.50	0.69	78	1.75	136	44	31	4.90	2.30	0.84	1.30	0.62
9	0.50	0.69	41	2.05	190	25	30	4.90	2.50	0.84	1.90	0.50
10	0.50	0.69	23	1.90	127	54	31	4.40	2.15	0.77	1.40	0.45
11	0.45	0.08	15	1.60	124	215 *	33	4.00	2.15	0.77	0.93	0.39
12	0.45	0.09	13	0.84	69	188 *	28	3.85	2.15	0.69	0.62	0.45
13	0.45	0.12	7.21	1.00	59	93	21	3.45	2.05	0.77	0.62	0.50
14	0.45	0.08	4.28	0.93	54	79	15	3.60	2.05	0.64	0.62	0.45
15	0.45	0.50	3.45	0.93	174 *	65	11	3.10	2.05	0.77	0.62	0.45
16	0.45	0.77	2.60	0.93	69 *	63	9.07	3.10	1.90	0.69	0.50	0.39
17	0.45	0.69	2.45	1.00	121	199 *	7.52	2.90	1.90	0.69	0.50	0.39
18	0.50	0.45	2.05	1.00	125	103	7.52	2.75	1.90	0.69	0.50	0.39
19	0.50	1.50	1.60	0.84	140	53	6.90	2.75	1.90	0.77	0.50	0.35
20	0.56	1.00	1.60	2.05	95	46	6.90	2.60	1.90	0.77	0.50	0.35
21	0.56	0.69	1.40	1.90	68	34	6.90	3.60	1.75	0.69	0.50	0.39
22	0.50	0.18	1.40	1.40	63	40	6.65	3.10	1.90	0.69	0.50	0.39
23	0.45	0.35	1.30	1.60	41	34	6.40	3.10	1.60	0.69	0.50	0.39
24	0.45	0.18	1.20	1.50	126 *	103	6.40	3.10	1.40	0.62	0.50	0.35
25	0.56	0.18	1.00	2.50	94	102	6.40	2.75	1.30	0.62	0.50	0.35
26	0.84	0.30	1.00	1.75	140	70	5.90	2.75	1.20	0.62	0.50	0.35
27	0.69	0.25	0.84	1.20	98 *	196 *	5.65	2.60	1.20	0.62	0.50	0.35
28	0.69	0.30	1.10	1.50	189	206	8.45	2.45	1.20	0.69	0.50	0.30
29	0.69	0.25	0.93	0.84	170	220	10	2.30	1.20	0.62	0.50	0.30
30	0.69	0.18	1.00	4.00	162	334	8.14	2.15	1.20	0.62		0.25
31		0.21		12	243 *		8.14		1.20	0.62		0.21
Total	16.70	15.47	281.54	52.55	3,165	3,587	902.94	115.87	57.95	23.65	19.35	12.81
Mean	0.56	0.50	9.38	1.69	102	119	29.1	3.86	1.87	0.76	0.68	0.41
Max.	0.69	1.50	78	12	243	358	196	7.52	2.45	1.10	1.90	0.62
Min.	0.45	0.08	0.18	0.84	13	25	5.65	2.15	1.20	0.62	0.50	0.21
Runoff — mcm.	1.443	1.337	24.325	4.540	273.456	309.917	78.014	10.011	5.007	2.043	1.672	1.107

WATER YEAR 1955 : Max. 358 Min. 0.08 Mean 21.8 Annual Runoff 690.979 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	06.00	231.86	392				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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.

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 Slaughter house.
Elevation: +233.733 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: 1929 - 49, 1951 - 67

Rating Operation:

Period of Rating: 1955 - 62
Rated by Float: -
Rated by Current Meter: 1955 - 62

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

Overbank Flow Conditions: No overbank flow.

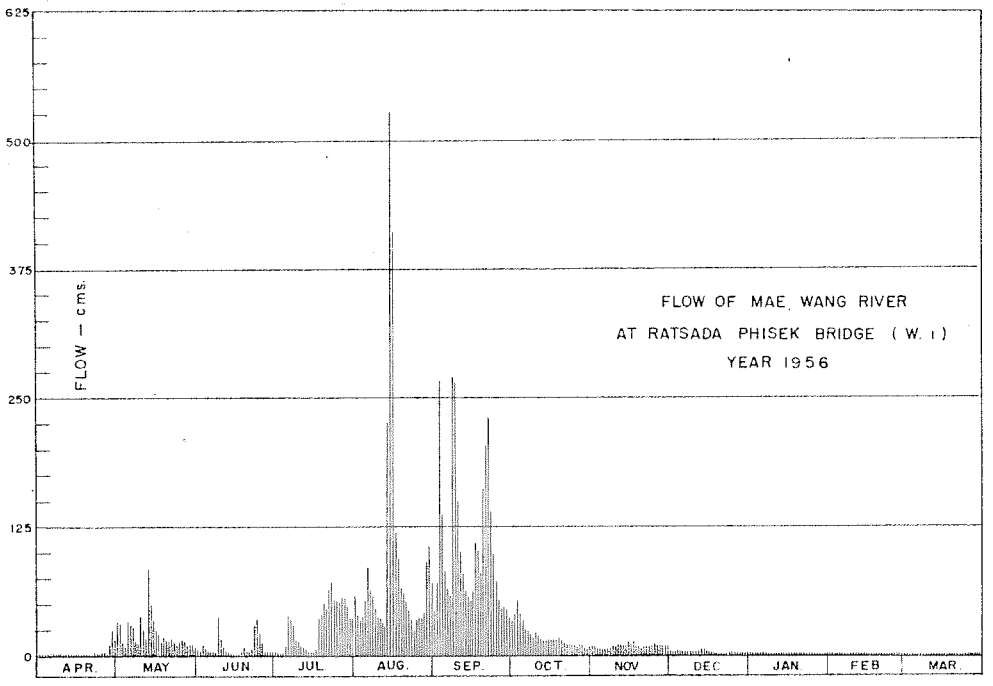
General Description: Records good, stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	228.82	229.74	229.22	229.04	230.15	229.87	229.72	229.18	229.10	228.94	228.89	228.79
2	.81	.72	.17	.01	229.90	230.26	.74	.18	.09	.94	.89	.78
3	.81	.35	.42	228.99	.79	231.89	.92	.18	.08	.93	.89	.78
4	.80	.25	.24	229.03	.88	230.87	.80	.17	.07	.93	.86	.80
5	.80	.76	.13	.18	230.10	.33	.67	.13	.06	.92	.86	.80
6	228.79	229.67	229.08	229.86	230.47	230.08	229.58	229.14	229.05	228.92	228.86	228.80
7	.79	.65	.06	.79	.25	.03	.53	.14	.05	.92	.86	.80
8	.78	.37	.06	.72	.18	231.90	.49	.20	.04	.91	.84	.80
9	.78	.30	.87	.52	.00	.84	.47	.26	.03	.91	.84	.78
10	.78	.83	.46	.42	229.84	230.99	.57	.26	.02	.91	.84	.78
11	228.78	229.60	229.22	229.32	229.77	230.54	229.48	229.26	229.02	228.88	228.84	228.78
12	.78	.42	.10	.29	.74	.34	.43	.25	.06	.88	.93	.82
13	.78	230.38	.02	.21	.71	.14	.40	.21	.17	.88	.95	.78
14	.78	229.99	228.98	.12	231.57	.06	.40	.25	.17	.88	.84	.78
15	.78	.77	.96	.06	233.04	.02	.41	.27	.06	.91	.84	.78
16	228.78	229.61	228.94	229.05	232.53	230.06	229.42	229.21	229.01	228.88	228.82	228.78
17	.78	.53	.94	.22	230.79	.53	.42	.19	228.98	.86	.82	.81
18	.78	.36	229.10	.86	.57	.47	.43	.25	.98	.86	.81	.80
19	.78	.48	.25	.91	.27	.27	.43	.19	.92	.83	.81	.80
20	.78	.41	.14	230.08	.21	231.09	.40	.19	.92	.82	.81	.80
21	228.78	229.38	229.18	229.97	230.12	231.76	229.33	229.17	228.92	228.85	228.81	228.80
22	229.01	.46	.47	230.21	.01	.86	.32	.21	.92	.86	.82	.79
23	228.94	.36	.82	.26	229.91	230.82	.32	.18	.95	.83	.82	.79
24	.96	.29	.96	.07	.72	.44	.20	.26	.98	.81	.81	.81
25	229.01	.35	.63	.08	.92	.19	.24	.28	229.00	.81	.81	.81
26	229.01	229.41	229.37	230.08	229.78	230.02	229.24	229.25	228.94	228.81	228.91	228.80
27	.00	.39	.19	.15	.70	229.90	.21	.24	.94	.83	.91	.80
28	.39	.33	.13	.10	.87	.85	.21	.23	.94	.83	.91	.78
29	.61	.27	.05	.03	230.47	.82	.19	.23	.94	.82		.85
30	.43	.34	.09	229.85	.57	.76	.19	.21	.94	.86		.81
31		.25		.79	.11		.18		.94	.89		.80
Mean	228.90	229.52	229.24	229.63	230.20	230.53	229.43	229.21	229.00	228.87	228.85	228.80
Max.	229.61	230.38	229.87	230.26	233.04	231.90	229.92	229.28	229.10	228.94	228.91	228.85
Min.	228.78	229.25	228.94	228.99	229.70	229.76	229.18	229.13	228.92	228.81	228.81	228.78

WATER YEAR 1956 : Max. 233.04 m. Min. 228.78 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	33	6.10	2.90	59	43	33	8.20	4.50	1.50	1.30	0.60
2	0.50	32	4.50	2.90	41	70	39	7.90	4.10	1.40	1.20	0.50
3	0.30	15	11	2.20	35	267	53	6.40	3.90	1.30	1.40	0.50
4	0.50	8.90	7.00	2.70	59	136	40	6.10	3.90	1.50	1.20	0.60
5	0.50	34	3.70	8.20	55	81	34	5.30	3.90	1.80	1.40	0.60
6	0.40	29	4.50	39	87	63	26	6.10	3.30	1.80	1.20	0.60
7	0.40	28	3.20	35	65	55	23	6.40	3.50	1.70	1.80	0.60
8	0.40	13	2.50	30	58	270	20	7.30	3.50	1.30	1.90	0.60
9	0.30	11	39	15	46	265	17	8.90	3.50	1.40	1.90	0.50
10	0.30	39	16	13	36	150	21	9.20	3.50	1.10	1.40	0.50
11	0.30	25	7.90	9.60	36	108	18	9.60	3.70	1.10	0.90	0.60
12	0.30	16	4.70	8.50	31	80	16	9.20	3.70	1.10	0.80	0.80
13	0.30	85	2.70	6.70	28	63	14	9.20	6.70	1.20	1.10	0.60
14	0.30	51	1.90	3.80	225	57	14	9.20	6.10	1.20	0.90	0.60
15	0.30	35	1.50	3.40	525	52	15	15	3.50	1.40	0.90	0.60
16	0.30	25	0.90	5.20	410	65	15	12	3.30	1.10	0.80	0.60
17	0.30	21	1.30	5.80	120	109	14	15	2.90	1.10	0.80	0.80
18	0.50	13	4.10	16	95	101	15	9.60	2.20	1.10	0.70	0.70
19	0.50	18	8.90	40	66	80	16	8.90	1.80	1.80	0.70	0.70
20	0.50	15	4.90	52	60	161	15	6.70	1.80	1.20	0.80	0.70
21	0.30	14	3.00	46	52	204	11	7.60	1.70	1.10	0.70	0.70
22	3.00	17	11	67	43	231	10	8.50	1.70	1.20	0.80	0.60
23	1.90	15	28	71	35	139	10	7.60	2.10	0.70	0.80	0.70
24	2.20	10	36	54	26	99	9.20	10	3.40	0.80	0.70	0.80
25	3.00	15	22	53	36	71	8.20	11	2.90	0.80	0.70	0.70
26	3.00	15	15	52	37	54	7.60	9.60	2.10	0.50	1.10	0.80
27	2.90	14	4.30	57	36	45	8.50	5.80	2.10	0.70	1.10	0.90
28	14	10	3.90	57	42	46	8.90	9.20	1.90	0.70	1.10	0.80
29	25	11	3.20	50	90	45	7.50	9.20	1.80	0.60		1.40
30	16	11	3.20	38	105	36	7.30	8.90	1.80	1.10		1.10
31		7.60		36	69		7.60		1.70	1.10		1.00
Total	78.30	680.50	263.90	898.60	2,684	3,238	551.60	255.40	95.10	36.20	30.10	21.80
Mean	2.60	21.9	8.79	29.0	86.6	108	17.8	8.78	3.07	1.17	1.07	0.70
Max.	25	85	39	67	525	270	53	11	4.50	1.80	1.40	1.40
Min.	0.30	7.60	0.90	2.20	23	36	7.30	6.10	1.70	0.30	0.70	0.50
Runoff — mcm.	6.765	58.795	22.801	77.659	231.898	279.763	47.658	22.758	8.217	3.127	2.601	1.883

WATER YEAR 1956 : Max. 525 Min. 0.30 Mean 24.2 Annual Runoff 763.906 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 16	06.00	233.59	665				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
WANG RIVER BASIN

Mae Wang River at Suriyong Bridge, Lampang (W.3)

Location: Lat 17°- 37' - 29" N, Long 99°- 14' - 04" E, on right bank 20 meters upstream side of bridge at Tambon Lom Ruet, Amphoe Thoen, Lampang.

Drainage Area: 8,085 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +13.87 m. (A.D.)

Bench Mark:

Location: On right bank 5 meters from upper gage.
Elevation: +20.00 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: 1951 - 60, 1962 - Cont'd.

Rating Operation:

Period of Rating: 1954 - 60, 1962 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 60, 1962 - Cont'd.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

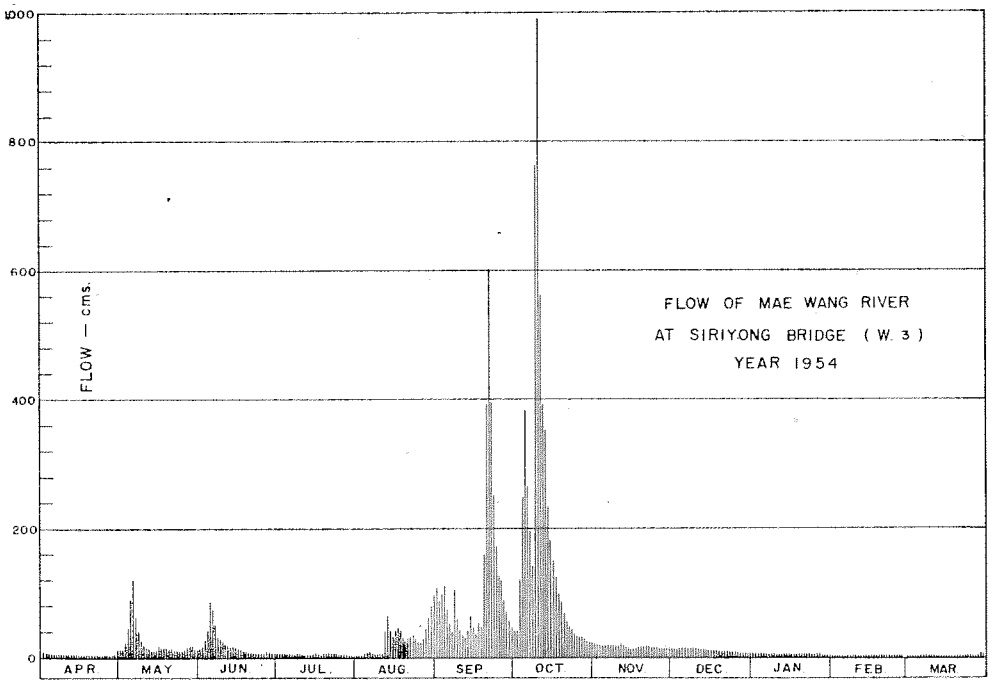
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversion for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: * Estimated data.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.67	14.82	14.85	14.66	14.58	15.79	15.25	14.98	14.88	14.69	14.63	14.62
2	.66	.80	.92	.66	.61	.63	.25	.97	.88	.68	.63	.60
3	.64	.99	19.05	.65	.59	.72	.50	.96	.88	.68	.62	.59
4	.64	15.28	.23	.64	.67	.81	16.47	.95	.88	.68	.62	.58
5	.63	.66	.63	.63	.72	.58	17.01	.94	.89	.68	.62	.58
6	14.62	15.85	15.54	14.64	14.73	15.36	16.57	14.94	14.89	14.67	14.62	14.58
7	.63	.45	.34	.63	.67	.23	.25	.94	.89	.67	.62	.58
8	.63	*.23	.14	.63	.66	.76	15.99	.95	.89	.66	.62	.58
9	.62	.05	.06	.64	.66	.43	18.04	.95	.88	.66	.61	.57
10	.62	14.95	.02	.64	.65	.26	.49	.93	.87	.66	.61	.57
11	14.62	14.88	14.97	14.61	14.69	15.16	18.11	14.98	14.86	14.65	14.61	14.57
12	.63	.86	.91	.60	15.24	.11	17.04	.94	.85	.65	.60	.56
13	.62	.79	.88	.62	.46	.25	16.90	.90	.84	.65	.60	.56
14	.62	.77	.91	.61	.24	.47	.46	.89	.83	.65	.60	.56
15	.62	.78	.89	.63	.11	.30	.19	.87	.83	.65	.60	.56
16	14.61	14.93	14.84	14.65	15.23	15.18	16.03	14.89	14.82	14.65	14.60	14.56
17	.61	.89	.83	.63	.31	.37	15.88	.88	.81	.65	.59	.56
18	.60	.86	.75	.61	.26	.31	.74	.91	.80	.65	.59	.56
19	.61	.88	.75	.65	.09	16.09	.63	.91	.79	.64	.59	.55
20	.61	.85	.71	.64	14.99	.48	.51	.91	.78	.64	.59	.55
21	14.61	14.87	14.69	14.67	15.12	17.66	15.41	14.94	14.78	14.64	14.59	14.55
22	.59	.80	.68	.66	.12	.05	.34	.94	.78	.64	.59	.55
23	.58	.76	.68	.65	.16	16.51	.28	.90	.77	.64	.59	.55
24	.58	.78	.67	.64	.06	.15	.21	.91	.76	.64	.63	.55
25	.59	.78	.65	.62	.02	15.90	.16	.90	.75	.64	.63	.55
26	14.61	14.80	14.66	14.62	15.00	15.86	15.13	14.89	14.74	14.64	14.63	14.54
27	.58	.89	.75	.61	.08	.65	.13	.89	.74	.64	.63	.54
28	.57	.90	.72	.60	.39	.52	.08	.89	.74	.63	.63	.54
29	.63	.91	.69	.62	* .45	.41	.05	.88	.74	.63		.72
30	.81	.82	.67	.59	* .60	.32	.03	.88	.73	.63		.67
31		.79		.58	* .70		.00		.72	.63		.62
Mean	14.64	14.96	14.90	14.63	15.03	15.71	15.97	14.92	14.81	14.65	14.61	14.57
Max.	14.81	15.85	15.63	14.67	15.70	17.66	18.49	14.89	14.89	14.69	14.63	14.72
Min.	14.57	14.76	14.72	14.58	14.58	15.11	15.00	14.87	14.72	24.63	14.59	14.54

WATER YEAR 1954 : Max. 18.49 m. Min. 14.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.10	11	12	4.80	2.60	108	41	21	14	5.70	3.90	3.60
2	4.80	10	16	4.80	3.30	85	41	20	14	5.40	3.90	3.00
3	4.20	21	25	4.50	2.80	98	68	19	14	5.40	3.60	2.80
4	4.20	24	40	4.20	5.10	112	242	18	14	5.40	3.60	2.60
5	3.90	89	85	3.90	6.80	78	383	18	14	5.40	3.60	2.60
6	3.60	118	73	4.20	7.20	53	266	18	14	5.10	3.60	2.60
7	3.90	62	50	3.90	5.10	40	193	18	14	5.10	3.60	2.60
8	3.90	40	32	3.90	4.80	104	142	18	14	4.80	3.60	2.60
9	3.60	25	26	4.20	4.80	60	761	18	14	4.80	3.30	2.40
10	3.60	16	23	4.20	4.50	42	989	17	13	4.80	3.30	2.40
11	3.60	14	20	3.30	5.70	34	793	21	13	4.50	3.30	2.40
12	3.90	13	16	3.00	41	30	392	18	12	4.50	3.00	2.20
13	3.60	9.60	14	3.60	64	41	351	15	12	4.50	3.00	2.20
14	3.60	8.80	16	3.30	41	65	240	14	11	4.50	3.00	2.20
15	3.60	9.20	14	3.90	30	46	181	13	11	4.50	3.00	2.20
16	3.30	17	12	4.50	40	35	150	14	11	4.50	3.00	2.20
17	3.30	14	11	3.90	47	54	124	14	10	4.50	2.80	2.20
18	3.00	13	8.00	3.30	42	47	101	16	10	4.50	2.80	2.20
19	3.30	14	8.00	4.50	28	161	85	16	9.60	4.20	2.80	2.00
20	3.30	12	6.40	4.20	21	244	69	16	9.20	4.20	2.80	2.00
21	3.30	13	5.70	3.10	31	602	58	18	9.20	4.20	2.80	2.00
22	2.80	10	5.40	4.80	31	394	50	18	9.20	4.20	2.80	2.00
23	2.60	8.40	5.40	4.50	34	251	44	15	8.80	4.20	2.80	2.00
24	2.60	9.20	5.10	4.20	26	173	38	16	8.40	4.20	3.90	2.00
25	2.80	9.20	4.50	3.60	23	127	34	15	8.00	4.20	3.90	2.00
26	3.30	10	4.80	3.60	22	120	31	14	7.60	4.20	3.90	1.80
27	2.60	14	8.00	3.30	28	88	31	14	7.60	4.20	3.90	1.80
28	2.40	15	6.80	3.00	56	71	28	14	7.60	3.90	3.90	1.80
29	3.90	16	5.70	3.60	62	58	25	14	7.60	3.90		6.80
30	10	11	5.10	2.80	81	48	24	14	7.20	3.90		5.10
31		9.60		2.60	95		22		6.80	3.90		3.60
Total	111.60	688.00	563.90	121.20	895.70	3,469	5,997	494	335.80	141.30	93.40	79.90
Mean	3.72	22.2	18.8	3.91	28.9	116	193	16.5	10.8	4.56	3.33	2.58
Max.	10	118	85	5.10	95	602	989	21	14	5.70	3.90	6.80
Min.	2.40	8.80	4.50	2.60	2.60	30	22	13	6.80	3.90	2.80	1.80
Runoff — mcm.	9.642	59.443	48.721	10.472	77.388	299.722	518.141	42.682	29.013	12.208	8.070	6.903

WATER YEAR 1954 : Max. 989 Min. 1.80 Mean 356 Annual Runoff 1,122.405 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	06.00	18.57	1,033				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
WANG RIVER BASIN

Mae Wang River at Suriyong Bridge, Lampang (W.3)

Location: Lat 17°- 37' - 29" N, Long 99°- 14' - 04" E, on right bank 20 meters upstream side of bridge at Tambon Lom Laet, Amphoe Thoen, Lampang.

Drainage Area: 8,985 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +13.87 m. (A.D.)

Bench Mark:

Location: On right bank 5 meters from upper gage.
Elevation: +20.00 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: 1951 - 60, 1962 - Cont'd.

Rating Operation:

Period of Rating: 1954 - 60, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 60, 1967 - Cont'd.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

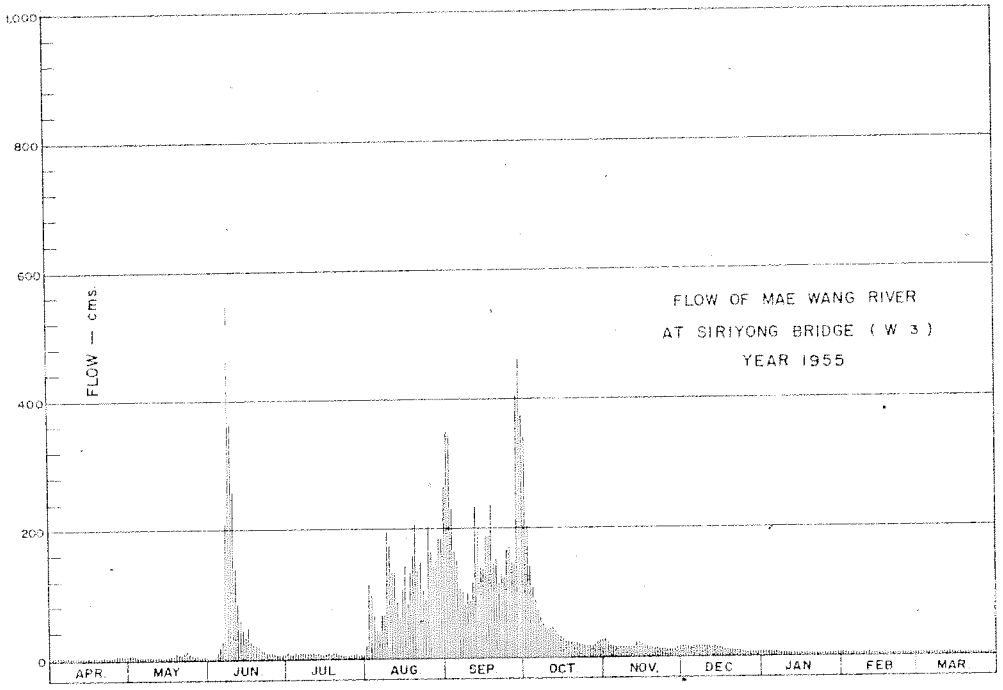
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.59	14.70	14.53	14.77	15.01	17.00	16.96	15.12	14.97	14.81	14.73	14.61
2	.60	.67	.52	.75	.80	16.98	.37	.04	.96	.80	.72	.60
3	.60	.63	.59	.75	.79	.51	.06	14.97	.96	.80	.72	.62
4	.60	.61	.86	.77	.54	.18	15.86	.96	.95	.80	.72	.62
5	.58	.60	.94	.75	.31	.11	.73	.95	.95	.79	.72	.61
6	14.57	14.60	15.15	14.83	15.31	15.85	15.59	14.94	14.94	14.77	14.71	14.59
7	.56	.62	16.41	.80	.55	.82	.51	.94	.94	.74	.71	.58
8	.58	.61	17.60	.79	.58	.67	.41	.93	.94	.74	.71	.58
9	.57	.59	.05	.78	16.33	.80	.34	.92	.94	.73	.70	.59
10	.57	.58	16.64	.77	.23	.72	.31	.92	.94	.73	.70	.64
11	14.57	14.57	16.06	14.80	16.01	15.92	15.33	14.93	14.94	14.73	14.75	14.63
12	.56	.57	15.70	.81	.01	16.52	.35	.95	.93	.73	.69	.61
13	.55	.58	.48	.78	15.72	.34	.27	15.05	.93	.73	.68	.60
14	.54	.54	.34	.75	.52	.05	.20	.04	.93	.73	.68	.59
15	.53	.61	.21	.73	.86	.03	.16	.01	.92	.73	.68	.57
16	14.53	14.71	15.38	14.75	16.07	16.31	15.12	14.98	14.91	14.73	14.67	14.57
17	.53	.71	.10	.81	15.70	.31	.09	.96	.90	.73	.67	.56
18	.52	.73	.03	.79	16.01	.53	.08	.95	.89	.73	.66	.56
19	.52	.82	.01	.81	.14	.09	.06	.94	.89	.73	.65	.55
20	.55	.76	14.98	.80	.40	.12	.04	.93	.88	.73	.65	.55
21	14.57	14.74	14.91	14.69	16.03	15.90	15.03	14.93	14.87	14.72	14.65	14.57
22	.54	.81	.87	.70	.10	.99	.01	.93	.86	.71	.65	.56
23	.53	.89	.83	.73	15.84	.95	14.99	.92	.84	.71	.65	.55
24	.54	.77	.80	.73	.73	16.19	.99	.91	.83	.71	.64	.54
25	.60	.71	.77	.71	16.38	.22	.97	.90	.83	.71	.64	.53
26	14.67	14.66	14.75	14.72	16.18	16.09	14.95	14.90	14.82	14.71	14.63	14.55
27	.69	.63	.73	.76	.06	.07	.94	.91	.82	.71	.62	.53
28	.66	.60	.73	.75	.12	17.18	.98	.93	.82	.73	.61	.53
29	.63	.59	.73	.72	.29	.36	15.07	.94	.81	.73	.61	.52
30	.63	.57	.75	.71	.28	.08	.11	.97	.81	.73		.51
31		.56		.71	.66		.09		.81	.73		.51
Mean	14.58	14.66	15.25	14.75	15.92	16.26	15.32	14.95	14.87	14.74	14.68	14.57
Max.	14.69	14.89	17.60	14.83	16.66	17.36	16.96	15.12	14.97	14.81	14.73	14.66
Min.	14.52	14.56	14.52	14.71*	15.01	15.67	14.94	14.90	14.81	14.71	14.61	14.51

WATER YEAR 1955 : Max. 17.60 m. Min. 14.51 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.35	6.00	2.45	8.10	20	350	340	27	16	5.95	3.89	2.12
2	3.50	5.25	2.30	7.50	114	345	201	22	15	5.50	3.66	2.00
3	3.50	4.25	3.35	7.50	98	231	141	17	15	5.50	3.66	2.72
4	3.50	3.75	12	8.10	66	163	108	17	14	5.50	3.66	2.24
5	3.20	3.50	16	7.50	42	150	89	16	14	5.27	3.66	2.12
6	3.05	3.50	29	10	42	106	71	16	14	4.81	3.43	1.90
7	2.90	4.00	209	9.00	67	102	62	16	14	4.12	3.43	1.80
8	3.20	3.75	544	8.70	70	81	52	15	14	4.12	3.43	1.80
9	3.05	3.35	365	8.40	195	99	45	15	14	3.89	3.20	1.90
10	3.05	3.20	260	8.10	173	88	42	15	14	3.89	3.20	2.48
11	3.05	3.05	141	9.00	132	117	44	15	14	3.89	4.35	2.36
12	2.90	3.05	85	9.50	132	233	46	16	13	3.89	3.08	2.12
13	2.75	3.20	59	8.40	88	195	39	22	13	3.89	2.96	2.00
14	2.60	2.60	45	7.50	63	139	33	22	13	3.89	2.96	1.90
15	2.45	3.75	34	6.90	108	136	30	20	12	3.89	2.96	1.70
16	2.45	6.30	49	7.50	146	188	27	17	11	3.89	2.84	1.70
17	2.45	6.30	26	9.50	85	188	25	15	10	3.89	2.84	1.60
18	2.30	6.90	21	8.70	132	235	24	14	9.55	3.89	2.72	1.60
19	2.30	10	20	9.50	156	146	23	14	9.55	3.89	2.60	1.50
20	2.75	7.80	18	9.00	207	152	22	13	9.10	3.89	2.60	1.50
21	3.05	7.20	14	5.75	136	114	21	13	8.65	3.66	2.60	1.70
22	2.60	9.50	12	6.00	148	129	20	13	8.20	3.43	2.60	1.60
23	2.45	13	10	6.90	105	122	18	12	7.30	3.43	2.60	1.50
24	2.60	8.10	9.00	6.90	89	165	18	11	6.85	3.43	2.48	1.40
25	3.50	6.30	8.10	6.30	203	171	17	10	6.85	3.43	2.48	1.30
26	5.25	5.00	7.50	6.60	163	146	16	10	6.40	3.43	2.36	1.30
27	5.75	4.25	6.90	7.80	141	143	16	11	6.40	3.43	2.24	1.30
28	5.00	3.50	6.90	7.50	152	403	18	13	6.40	3.89	2.12	1.30
29	4.25	3.35	6.90	6.60	184	460	24	14	5.95	3.89	2.12	1.20
30	4.25	3.05	7.50	6.30	183	374	26	16	5.95	3.89		1.10
31		2.90		6.30	265		25		5.95	3.89		1.10
Total	97.00	159.65	2,029.90	241.35	3,900	5,671	1,683	467	333.10	127.25	86.73	53.86
Mean	3.23	5.15	67.7	7.78	126	189	54.3	15.6	10.7	4.10	2.99	1.74
Max.	5.75	13	544	10	265	460	340	27	16	5.95	4.35	2.72
Min.	2.30	2.90	2.30	5.75	20	81	16	10	5.95	3.43	2.12	1.10
Runoff - MCM.	8.381	13.794	175.383	20.853	336.960	489.974	145.411	40.349	28.789	10.994	7.493	4.653

WATER YEAR 1955 : Max. 544 Min. 1.10 Mean 40.6 Annual Runoff 1,283.026 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 8	06.00	17.97	699				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
WANG RIVER BASIN

Mae Wang River at Suriyong Bridge, Lampang (W.3)

Location: Lat 17°- 37' - 29" N, Long 99°- 14' - 04" E, on right bank 20 meters upstream side of bridge at Tambon Lom Laet, Amphoe Thoen, Lampang.

Drainage Area: 8,985 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +13.87 m. (A.D.)

Bench Mark: B.M. - H.S.

Location: On right bank 5 meters from upper gage.
Elevation: +20.00 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: 1951 - 60, 1962 - Cont'd.

Rating Operation:

Period of Rating: 1954 - 60, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 60, 1967 - Cont'd.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

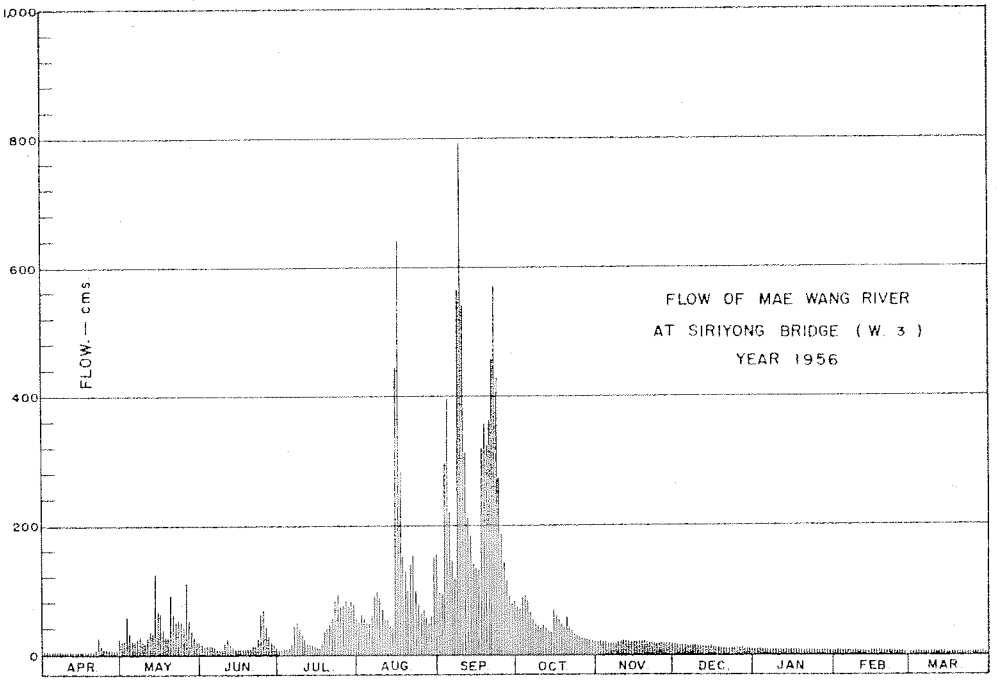
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.51	14.96	14.88	14.74	15.37	15.78	15.59	14.97	14.91	14.73	14.64	14.57
2	.51	.98	.82	.72	.49	.74	.56	.98	.90	.73	.66	.56
3	.53	15.46	.84	.73	.43	16.78	.71	.97	.89	.72	.68	.58
4	.52	.15	.84	.71	.38	17.15	.73	.96	.89	.72	.67	.62
5	.51	14.96	.85	.76	.35	16.45	.67	.95	.89	.72	.66	.59
6	14.50	14.96	14.78	14.83	15.47	16.08	15.53	14.94	14.88	14.72	14.64	14.56
7	.50	15.03	.72	15.31	.73	15.90	.43	.93	.87	.72	.63	.54
8	.49	.09	.70	.39	.78	17.47	.35	.94	.87	.72	.63	.53
9	.49	14.97	.67	.25	.71	18.15	.30	.96	.88	.71	.62	.54
10	.49	.92	.93	.17	.55	17.59	.27	15.00	.87	.71	.62	.54
11	14.49	15.06	15.05	15.03	15.41	16.84	15.33	15.00	14.84	14.71	14.62	14.55
12	.49	.21	14.88	14.92	.42	.41	.26	.00	.83	.71	.62	.55
13	.49	.15	.78	.89	.32	.27	.22	14.99	.83	.11	.62	.55
14	.50	.95	.72	.85	.26	.05	.21	.98	.83	.70	.61	.54
15	.53	.54	.66	.79	17.07	.01	.56	.98	.88	.70	.63	.53
16	14.51	15.52	14.65	14.77	17.82	15.98	15.49	14.99	14.84	14.70	14.63	14.53
17	.50	.23	.65	.80	.08	16.87	.42	.99	.80	.70	.63	.53
18	.51	.08	.68	.95	16.16	17.01	.35	.98	.80	.69	.64	.53
19	.49	.01	.75	15.22	15.98	16.89	.29	.98	.79	.69	.63	.54
20	.54	.73	.73	.27	.80	.99	.46	.96	.79	.69	.62	.52
21	14.71	15.48	14.86	15.38	16.04	17.18	15.30	14.95	14.79	14.69	14.62	14.53
22	15.09	.37	.84	.46	.12	.65	.24	.95	.78	.69	.61	.52
23	14.84	.40	15.04	.67	15.81	.25	.18	.95	.77	.68	.60	.52
24	.72	.37	.51	.74	.65	16.68	.13	.94	.77	.67	.59	.52
25	.73	.27	.56	.60	.50	.28	.10	.93	.79	.67	.59	.51
26	14.69	15.86	15.30	15.61	15.56	16.06	15.07	14.95	14.78	14.67	14.59	14.51
27	.65	.40	.10	.66	.44	15.88	.05	.94	.76	.66	.59	.50
28	.62	.21	14.95	.60	.35	.72	.04	.93	.74	.66	.57	.53
29	.60	.06	.85	.66	.50	.63	.01	.91	.73	.65		.53
30	15.07	14.96	.79	.63	16.10	.68	14.99	.91	.73	.65		.53
31		.96		.44	.13		.99		.73	.65		.51
Mean	14.59	15.23	14.91	15.18	15.80	15.55	15.32	14.96	14.82	14.69	14.62	14.54
Max.	15.09	15.95	15.56	15.74	17.82	18.15	15.73	15.00	14.91	14.73	14.68	14.62
Min.	14.49	14.92	14.65	14.71	15.26	15.63	14.99	14.91	14.73	14.65	14.57	14.50

WATER YEAR 1956 : Max. 18.15 m. Min. 14.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.15	18	13	7.40	48	97	72	16	15	7.05	4.50	3.05
2	2.15	19	10	6.70	60	92	68	19	14	7.05	5.00	2.90
3	2.45	57	11	7.05	54	295	87	18	13	6.70	5.50	3.20
4	2.30	30	11	6.35	49	397	90	18	13	6.70	5.25	4.00
5	2.15	18	12	8.10	46	219	82	17	13	6.70	5.00	3.35
6	2.00	18	8.80	11	58	145	65	16	13	6.70	4.50	2.90
7	2.30	22	6.70	43	90	115	54	16	13	6.70	4.25	2.60
8	1.90	25	6.00	50	97	503	46	16	13	6.70	4.25	2.45
9	1.90	18	5.25	38	87	791	42	18	13	6.35	4.00	2.60
10	1.90	15	16	31	67	547	39	20	13	6.35	4.00	2.60
11	1.90	24	23	22	52	310	45	20	11	6.35	4.00	2.75
12	1.90	34	13	15	53	211	39	20	11	6.35	4.00	2.75
13	1.90	30	8.80	13	44	182	35	19	11	6.35	4.00	2.75
14	2.00	123	6.70	12	39	140	34	19	11	6.00	3.75	2.60
15	2.45	66	5.00	9.15	573	133	68	19	13	6.00	4.25	2.45
16	2.15	63	4.75	8.45	638	128	60	19	11	6.00	4.25	2.45
17	2.00	36	4.75	9.50	376	318	53	19	9.50	6.00	4.25	2.45
18	2.15	25	5.50	17	160	356	46	19	9.50	5.75	4.50	2.45
19	1.90	21	7.75	35	128	323	41	19	9.15	5.75	4.25	2.60
20	2.60	90	7.05	39	100	350	52	18	9.15	5.75	4.00	2.30
21	6.35	59	12	49	138	407	42	17	9.15	5.75	4.00	2.45
22	25	48	11	57	153	570	37	17	8.80	5.75	3.75	2.30
23	11	51	22	82	101	439	32	17	8.45	5.50	3.50	2.30
24	6.70	48	62	92	79	271	28	16	8.45	5.25	3.35	2.30
25	7.05	39	68	73	61	184	26	16	9.15	5.25	3.35	2.15
26	5.75	109	42	74	68	142	24	17	8.80	5.25	3.35	2.15
27	4.75	51	26	82	55	112	23	16	8.10	5.00	3.35	2.00
28	4.00	34	17	73	46	89	22	16	7.40	5.00	3.05	2.45
29	3.50	24	12	62	61	77	21	15	7.05	4.75		2.45
30	24	18	9.15	77	149	83	19	15	7.05	4.75		2.45
31		18		55	155		19		7.05	4.75		2.15
Total	139.95	1,251	467.20	1,184.70	3,685	8,016	1,416	529	327.75	184.30	115.20	80.35
Mean	4.66	40.3	15.6	38.2	119	267	45.7	17.6	10.6	5.94	4.11	2.59
Max.	25	123	68	92	638	791	90	20	15	7.05	5.50	4.00
Min.	1.90	15	4.75	6.35	39	83	19	15	7.05	4.75	3.05	2.00
Runoff - mcm.	12.092	108.086	40.366	102.358	318.384	692.582	122.342	45.706	28.318	15.923	9.955	6.942

WATER YEAR 1956 : Max. 791 Min. 1.90 Mean 47.7 Annual Runoff 1,503.053 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9	09.00	18.19	811				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 bridge at Ban Wang Khrai, 8 kilometers from Amphoe Sam Ngao and 6 kilometers from Phahon Yothin highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,442 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.316 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.

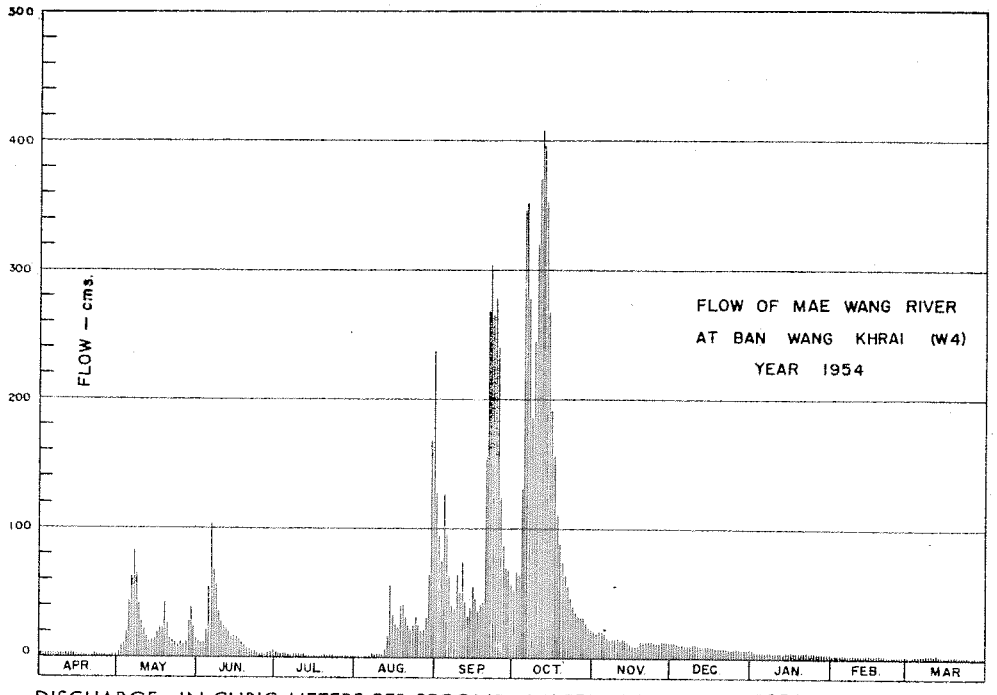
Overbank Flow Conditions: Overbank flow was observed at elev. +136.99 m. (M.S.L.) but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. 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, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	132.07	131.92	132.48	132.14	131.90	134.46	133.51	132.94	132.65	132.32	132.18	132.11
2	.06	132.32	.43	.07	.92	.06	.68	.90	.62	.30	.18	.11
3	.04	.77	.50	.04	.94	133.80	.62	.98	.61	.29	.17	.10
4	.03	.50	.78	.04	.95	134.60	134.47	.92	.61	.29	.16	.10
5	.00	133.09	133.19	.02	.91	.06	136.50	.88	.61	.30	.16	.10
6	131.98	133.85	134.00	132.01	131.96	133.60	136.55	132.83	132.61	132.29	132.15	132.10
7	.97	.93	133.41	.00	132.06	.26	.03	.79	.62	.28	.15	.10
8	.97	.45	.29	.02	.11	.10	135.39	.81	.63	.27	.15	.09
9	.97	.08	.01	.10	.07	.79	136.01	.79	.64	.26	.15	.09
10	.96	132.86	132.83	.03	.02	.42	.80	.80	.63	.25	.15	.08
11	131.95	132.66	132.74	132.00	132.00	133.13	137.07	132.74	132.61	132.24	132.14	132.08
12	.93	.54	.68	131.99	131.99	132.95	.31	.79	.57	.24	.13	.08
13	.93	.47	.62	.96	132.52	.85	.19	.78	.56	.24	.13	.07
14	.93	.50	.52	.95	133.32	133.02	136.78	.72	.54	.23	.12	.07
15	.92	.52	.54	.94	.07	.44	.13	.66	.52	.23	.12	.07
16	131.92	132.62	132.51	131.96	132.87	133.26	135.63	132.64	132.51	132.23	132.12	132.06
17	.92	.71	.45	.97	.88	.05	.21	.64	.49	.23	.11	.06
18	.91	.58	.39	.99	133.10	.25	134.80	.64	.48	.23	.10	.05
19	.91	133.16	.30	.96	.14	.31	.47	.65	.47	.22	.10	.05
20	.90	132.61	.24	132.00	132.87	134.72	.17	.67	.46	.22	.10	.04
21	131.89	132.49	132.19	131.98	132.72	136.12	133.96	132.68	132.45	132.21	132.10	132.03
22	.91	.47	.16	132.01	.64	.54	.81	.68	.44	.20	.11	.02
23	.90	.43	.14	.02	.73	.13	.65	.70	.43	.20	.11	.00
24	.89	.34	.11	.00	.93	135.60	.51	.68	.43	.20	.12	131.99
25	.87	.39	.08	131.98	.81	134.98	.39	.68	.41	.20	.12	.99
26	131.85	132.31	132.07	131.97	132.67	134.59	133.31	132.66	132.40	132.20	132.12	131.99
27	.85	.35	.08	.95	.70	.39	.20	.65	.35	.19	.11	132.00
28	.85	.78	.19	.94	.84	.00	.16	.65	.34	.19	.11	.00
29	.87	133.11	.18	.92	133.18	133.77	.10	.65	.34	.19		.00
30	.90	132.81	.17	.91	134.45	.57	.05	.66	.34	.19		131.99
31		.56		.90	135.70		132.99		.33	.19		.99
Mean	131.93	132.65	132.54	131.99	132.68	134.05	134.79	132.74	132.51	132.24	132.13	132.05
Max.	132.07	133.93	134.00	132.14	135.70	136.54	137.31	132.98	132.65	132.32	132.18	132.11
Min.	131.85	131.92	132.07	131.90	131.90	132.85	132.99	132.64	132.33	132.19	132.10	131.99

WATER YEAR 1954 : Max. 137.31 m. Min. 131.99 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1954 TO MARCH 31,1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.20	1.42	12	4.72	1.14	119	54	21	12	6.02	2.88	1.98
2	3.04	9.30	11	3.04	1.42	88	67	20	12	5.26	2.88	1.98
3	2.88	11	12	2.56	1.56	73	64	22	11	4.72	2.88	1.84
4	2.72	15	22	2.56	1.56	126	128	21	11	4.72	2.88	2.26
5	2.26	37	48	2.26	1.00	89	345	20	11	4.90	2.88	2.26
6	2.26	66	103	2.12	1.70	58	352	16	10	4.72	2.72	2.26
7	1.98	83	66	2.12	3.20	38	256	14	10	4.54	2.72	2.26
8	1.98	56	54	2.40	3.84	31	160	15	10	4.54	2.72	2.40
9	1.98	37	31	3.84	3.20	64	225	15	11	4.54	2.72	2.40
10	1.98	28	26	2.72	2.40	47	327	15	11	4.54	2.56	2.26
11	2.26	20	24	2.26	2.26	39	370	14	10	4.54	2.40	2.26
12	1.98	15	23	2.12	2.12	34	407	15	10	4.54	2.40	2.26
13	1.98	12	20	1.70	16	30	386	15	10	4.54	2.40	2.12
14	1.98	13	16	1.56	55	37	303	13	9.30	4.54	2.40	1.98
15	1.70	14	17	1.42	35	54	213	11	10	4.54	2.40	1.98
16	1.70	18	16	1.70	23	45	167	10	9.30	4.54	2.40	1.84
17	1.70	23	14	1.84	23	36	134	10	8.78	4.54	2.26	1.84
18	1.56	22	12	1.98	40	41	105	10	8.00	4.54	2.12	1.28
19	1.56	42	9.30	1.56	41	43	80	13	8.00	4.36	2.12	1.28
20	1.28	18	7.56	2.12	30	89	69	13	8.00	4.36	2.26	1.14
21	1.00	14	6.24	1.84	24	264	63	13	8.00	4.18	2.26	0.94
22	1.28	13	5.44	2.26	21	314	55	13	7.78	4.00	1.98	0.88
23	1.14	12	4.90	2.40	24	265	45	13	7.56	4.00	1.98	0.76
24	1.14	9.04	3.04	1.84	32	208	38	12	7.12	4.18	1.98	0.64
25	0.86	12	2.72	1.70	27	152	35	12	7.12	4.18	1.98	0.64
26	0.70	9.56	2.56	1.70	21	121	33	12	6.90	4.18	1.98	0.64
27	0.70	11	2.72	1.70	22	71	32	13	6.24	4.00	1.98	0.70
28	0.70	25	4.54	1.56	28	69	32	13	6.24	4.00	1.98	0.70
29	0.82	39	4.36	1.42	43	68	28	13	6.24	4.00		0.70
30	1.14	26	5.26	1.42	123	57	24	13	6.24	3.04		0.64
31		14		1.28	237		22		6.46	3.04		0.64
Total	51.48	725.32	585.64	65.72	891.40	2,770	4,617	340	276.28	136.34	67.12	47.76
Mean	1.72	23.4	19.5	2.12	28.7	92.3	149	14.3	8.91	4.40	2.40	1.54
Max.	3.20	83	103	4.72	237	314	407	22	12	6.02	2.88	2.40
Min.	0.70	1.42	2.56	1.28	1.14	30	22	10	6.24	3.04	1.98	0.64
Runoff — MCM.	4.448	62.668	50.599	5.678	77.017	239.328	398.909	37.152	23.670	11.780	5.799	4.126

WATER YEAR 1954 : Max. 407 Min. 0.64 Mean 29.2 Annual Runoff 921.375 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	12.00	137.33	411				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 bridge at Ban Wang Khrai, 8 kilometers from Amphoe Sam Ngao and 6 kilometers from Phahon Yothin highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,442 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.316 m. (M.S.L.)

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

Location: At fence near 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. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

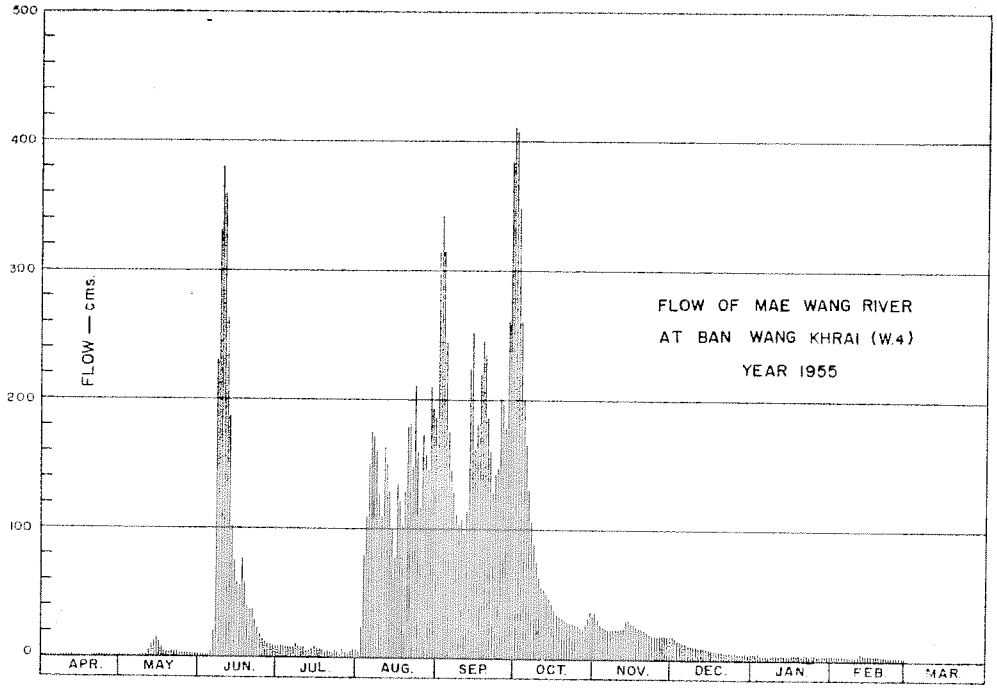
Remarks: Oct. 15 - Nov. 20 was obtained by correlation between $W_4 + W_5$. No gage-height records for period Mar. 1 - 31

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.99	132.04	132.12	132.31	132.20	136.22	136.78	133.06	132.67	132.32	132.18	
2	.99	.03	.11	.35	.28	.43	.31	132.91	.67	.32	.17	
3	.98	.02	.11	.34	133.75	.16	135.51	.83	.61	.31	.17	
4	.97	.01	.09	.32	134.05	135.45	.21	132.78	.61	.30	.16	
5	.98	131.92	.17	.32	.64	134.95	134.83	.82	.60	.30	.15	
6	131.98	131.99	132.80	132.32	133.96	134.75	134.51	132.78	132.59	132.30	132.14	
7	132.00	132.00	133.17	.30	.99	.40	.20	.77	.58	.29	.12	
8	.01	.02	136.22	.39	.94	.31	.06	.77	.56	.28	.13	
9	.03	.03	.64	.34	135.53	.28	133.79	.77	.55	.28	.13	
10	.05	.04	.48	.32	.39	.36	.62	.75	.55	.27	.13	
11	132.05	132.14	135.67	132.31	135.01	135.20	133.56	132.78	132.54	132.27	132.13	
12	.05	.46	134.92	.05	134.79	.52	.54	.81	.53	.26	.34	
13	.04	.62	.07	.20	.47	135.55	.55	.81	.51	.26	.23	
14	.04	.68	133.79	.34	.14	.75	.44	.88	.48	.26	.21	
15	.01	.71	.49	.32	133.84	134.85	.33	.91	.46	.25	.20	
16	131.99	132.60	133.52	132.27	134.71	134.99	133.23	132.91	132.45	132.24	132.19	
17	.97	.39	.83	.27	.52	135.32	.10	.89	.44	.24	.18	
18	.96	.22	.53	.25	.23	.58	.05	.78	.44	.25	.17	
19	132.00	.19	.10	.13	.68	.49	.02	.78	.43	.26	.17	
20	.02	.19	.01	.20	135.16	134.97	132.97	.77	.41	.25	.16	
21	132.04	132.18	133.09	132.18	135.18	134.87	132.92	132.75	132.40	132.24	132.15	
22	.06	.18	132.86	.17	134.79	.51	.89	.75	.49	.23	.14	
23	.08	.18	.75	.20	134.86	.74	.86	.73	.38	.22	.12	
24	.09	.17	.62	.19	134.56	.77	.82	.72	.36	.22	.12	
25	.08	.17	.52	.09	.50	135.28	.80	.72	.34	.22	.11	
26	132.09	132.17	132.45	132.21	135.14	135.22	132.77	132.71	132.33	132.21	132.11	
27	.08	.16	.40	.18	134.98	134.97	.75	.69	.32	.20	.10	
28	.08	.16	.36	.15	.83	135.91	.75	.68	.31	.19	.09	
29	.06	.15	.35	.25	135.46	136.69	133.46	.66	.31	.19		
30	.05	.15	.32	.24	.26	.82	.13	.65	.31	.19		
31		.15		.25	.21		.12		.31	.19		
Mean	132.03	132.20	133.35	132.25	134.49	135.21	133.67	132.80	132.46	132.25	132.16	
Max.	132.09	132.71	136.64	132.39	135.46	136.82	136.78	133.06	132.67	132.32	132.34	
Min.	131.96	131.92	132.09	132.05	132.20	134.20	132.75	132.65	132.31	132.19	132.09	

WATER YEAR 1955 : Max. 136.82 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.72	1.60	2.64	9.28	5.62	309	405	30	18	4.86	3.44	
2	0.72	1.60	2.48	10	10	341	330	24	17	4.68	3.28	
3	0.64	1.70	2.48	9.52	75	304	226	21	14	4.32	3.28	
4	0.57	1.70	2.16	8.80	97	215	193	19	14	3.96	3.12	
5	0.64	0.80	3.44	8.56	69	162	153	21	13	3.78	2.96	
6	0.64	1.36	20	8.56	87	144	124	19	12	3.60	2.80	
7	0.89	1.36	55	8.32	85	115	99	19	11	3.28	2.48	
8	0.89	1.43	318	11	77	106	88	19	10	3.12	2.64	
9	1.00	1.43	380	9.52	218	103	70	20	10	3.28	2.64	
10	1.15	1.43	356	9.28	203	108	59	20	10	3.28	2.64	
11	1.15	2.48	245	9.04	163	94	55	22	9.76	3.44	2.64	
12	1.15	8.08	161	3.60	143	119	54	24	9.28	3.44	6.50	
13	1.00	12	88	6.50	116	222	54	25	8.80	3.60	4.32	
14	1.00	13	71	9.76	90	252	47	28	8.08	3.78	3.96	
15	0.80	16	54	9.28	69	156	41	29	7.60	3.78	3.78	
16	0.72	12	56	7.84	135	176	36	28	7.16	3.78	3.60	
17	0.57	7.84	77	7.84	119	216	30	27	6.94	3.96	3.44	
18	0.50	5.22	59	7.16	96	245	28	22	6.94	4.14	3.28	
19	0.80	4.68	37	4.68	133	232	27	22	6.50	4.50	3.28	
20	1.00	4.68	34	6.06	180	173	25	21	6.06	4.50	3.12	
21	1.25	4.32	38	5.62	182	161	23	20	5.84	4.50	2.96	
22	1.60	4.32	27	5.40	143	126	22	19	5.84	4.32	2.80	
23	1.90	4.32	23	6.06	149	143	21	18	5.62	4.14	2.48	
24	2.00	3.96	18	5.84	122	147	20	18	5.40	4.14	2.48	
25	1.80	3.96	15	3.78	115	201	19	18	5.04	4.14	2.32	
26	1.90	3.78	13	6.06	174	194	18	18	5.04	3.96	2.32	
27	1.70	3.60	11	5.40	155	167	17	18	4.86	3.78	2.16	
28	1.60	3.44	11	4.68	143	275	17	18	4.86	3.60	2.00	
29	1.25	3.28	10	6.76	210	390	49	18	4.86	3.60		
30	1.36	3.12	9.52	6.28	189	410	32	18	4.86	3.60		
31		3.12		6.50	184		32		4.86	3.60		
Total	32.91	141.61	2,179.72	226.98	3,936.62	6,006	2,414	643	263.20	120.46	86.72	
Mean	1.10	4.57	72.6	7.32	127	200	77.9	21.4	8.49	3.88	3.10	
Max.	2.00	16	380	11	210	410	405	30	18	4.86	6.50	
Min.	0.50	0.80	2.16	3.60	5.62	94	17	18	4.86	3.60	2.00	
Runoff — mcm.	2.843	12.235	188.328	19.611	340.124	518.918	208.570	55.555	22.740	10.408	7.493	

WATER YEAR 1955 : Max. 410 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30	12.00	136.83	411				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 bridge at Ban Wang Khrai, 8 kilometers from Amphoe Sam Ngao and 6 kilometers from Phahon Yothin highway, Amphoe Sam Ngao, Tak.

Drainage Area: 10,442 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +131.316 m. (M.S.L.)

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

Location: At fence near 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.

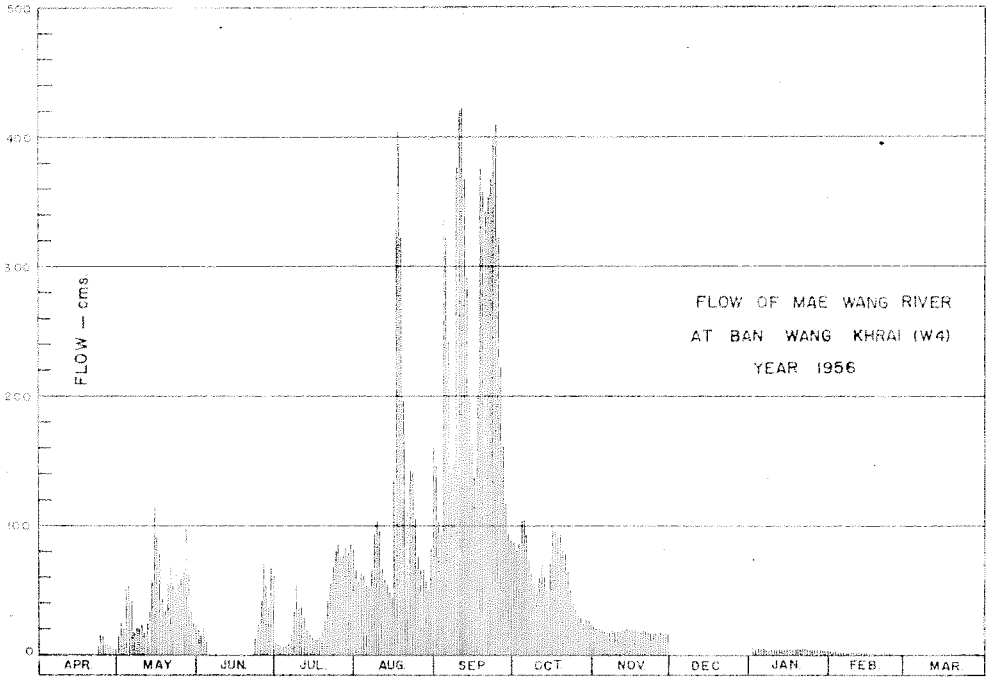
General Description: Records fair, except those for period of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 12,320 hectares. No adjustment made for virgin flow.

Remarks: No gage - height record for periods June 5 - 22 and Dec.1 - 30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	131.95	132.44	132.85	132.55	133.62	134.89	134.22	132.88		132.35	132.20	132.10
2	.95	.94	.69	.49	.51	.30	.09	.85		.35	.19	.09
3	.93	.75	.97	.43	.64	.23	.16	.82		.35	.19	.08
4	.91	133.49	.57	.43	.63	136.37	.42	.81		.34	.19	.07
5	.90	.54		.43	.50	.28	.42	.80		.34	.18	.07
6	131.90	133.29		132.43	133.47	135.46	134.23	132.79		132.33	132.18	132.07
7	.90	132.71		.58	.66	134.86	133.93	.78		.33	.18	.07
8	.91	.82		.90	134.13	.91	.72	.83		.32	.17	.07
9	.91	.84		133.50	.32	136.63	.57	.83		.32	.17	.07
10	.90	.89		.14	.14	.97	.47	.82		.31	.17	.05
11	131.90	132.71		133.18	133.81	136.98	133.64	132.82		132.30	132.16	132.03
12	.90	.84		132.97	.61	.42	.92	.88		.30	.16	.03
13	.90	135.07		.78	.56	135.73	.61	.87		.30	.15	.03
14	.90	.29		.70	.42	.41	.45	.86		.29	.16	.03
15	.90	134.52		.64	.30	134.97	.69	.84		.29	.16	.02
16	131.90	134.07		132.56	136.14	134.83	134.37	132.84		132.28	132.15	132.02
17	.90	133.77		.53	.81	135.06	.29	.84		.28	.13	.02
18	.93	.29		.56	.11	136.65	.20	.83		.28	.13	.01
19	.90	.07		.70	135.16	.54	.24	.82		.22	.13	.01
20	.81	.53		.88	134.69	.48	.07	.82		.27	.17	.01
21	131.78	133.81		133.26	134.48	136.56	134.01	132.79		132.27	132.15	132.01
22	.79	.50		.45	.86	.69	133.72	.78		.26	.14	.01
23	135.08	.45	132.58	.57	.85	.93	.50	.76		.25	.14	.00
24	132.69	.59	.68	134.00	.31	137.01	.27	.75		.25	.13	.00
25	.65	.66	133.08	.17	133.97	136.52	.21	.74		.24	.12	131.99
26	132.40	133.59	133.81	133.94	*133.73	135.81	133.12	132.73		132.24	132.12	131.98
27	.40	134.33	.43	.91	.75	.31	.04	.74		.24	.11	.97
28	.34	133.57	.15	134.00	.63	134.85	132.98	.71		.23	.11	132.01
29	.28	.25	132.77	133.92	.47	.48	133.06	.70		.23		.02
30	.26	132.95	.65	134.01	.96	.25	.02	.69		.22		.01
31		.86		133.96	135.07		132.92			.22		.00
Mean	132.06	133.30		133.11	134.20	135.75	133.73	132.80		132.28	132.15	132.03
Max.	132.69	134.52		134.17	136.81	136.98	134.42	132.88		132.35	132.20	132.10
Min.	131.78	132.44		132.43	133.30	134.25	132.92	132.69		132.22	132.11	131.97

WATER YEAR 1956 : Max. 136.98 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	9.00	19	10	62	164	88	25		6.20	3.80	1.70
2	0.55	26	14	9.00	56	98	81	21		6.20	3.60	1.60
3	0.47	16	24	7.80	65	95	87	20		6.20	3.40	1.50
4	0.41	52	11	7.80	62	556	105	20		6.00	3.40	1.40
5	0.38	54		8.20	55	320	105	19		6.00	3.20	1.40
6	0.41	41		8.40	53	200	92	18		5.80	3.20	1.40
7	0.41	17		12	65	140	72	18		5.80	3.20	1.50
8	0.41	21		23	92	144	62	20		5.60	3.00	1.50
9	0.35	21		54	164	369	54	19		5.60	3.00	1.50
10	0.35	24		36	92	420	49	19		5.40	3.00	1.30
11	0.35	17		38	70	422	57	19		5.20	2.80	1.10
12	1.10	22		28	60	341	72	21		5.40	2.80	1.10
13	0.95	32		20	52	251	56	21		5.40	2.60	1.10
14	0.80	42		17	50	194	48	21		5.20	2.80	1.40
15	0.70	115		15	44	150	60	20		5.20	2.60	1.30
16	0.60	86		13	500	168	101	20		5.00	2.40	1.30
17	0.55	68		12	405	158	96	20		6.00	2.00	1.30
18	0.65	42		13	295	375	90	19		6.00	2.00	1.20
19	0.47	32		17	171	359	93	19		5.80	2.00	1.30
20	0.10	56		24	129	343	82	21		5.80	2.80	1.20
21	0.10	69		41	113	450	78	19		5.80	2.40	1.20
22	0.10	52		50	143	366	62	19		5.60	2.20	1.20
23	0.21	49	13	56	142	299	59	18		5.40	2.20	1.10
24	16	55	17	80	100	408	38	18		5.40	2.00	1.00
25	15	59	35	87	79	536	36	16		5.20	1.90	0.90
26	8.00	55	71	77	65	221	31	17		5.20	1.90	0.85
27	8.20	98	91	77	66	166	28	18		5.20	1.80	0.80
28	7.00	94	56	64	59	125	25	17		4.80	1.80	1.00
29	5.60	39	20	70	51	100	29	17		4.80		1.10
30	5.60	26	14	86	77	88	27	16		4.60		1.00
31		23		82	160		24			4.60		0.95
Total	76.37	1,374		1,172.20	3,336	7,554	1,978	575		170.40	73.80	38.20
Mean	2.54	44.3		37.8	108	251	63.8	19.2		5.50	2.63	1.23
Max.	16	115		87	405	422	285	23		6.20	3.80	1.70
Min.	0.10	9.00		7.80	44	88	24	16		4.60	1.80	0.80
Runoff — mcm.	6.598	118.714		101.278	288.230	650.938	170.899	49.680		14.722	6.376	3.300

WATER YEAR 1956 : Max. 422 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 11	09.00	137.03	429				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
WANG RIVER BASIN

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

Location: Lat 18°- 18' - 21" N, Long 99°- 43' - 55" E, on left bank at Thanhin Lignite Office, 11 kilometers upstream from Mae Mo Railway Station, Amphoe Muang, Lampang.

Drainage Area: 196 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +296.925 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 - 1960

Rating Operation:
Period of Rating: 1954 - 1957
Rated by Float: -
Rated by Current Meter: 1954 - 1957

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 fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

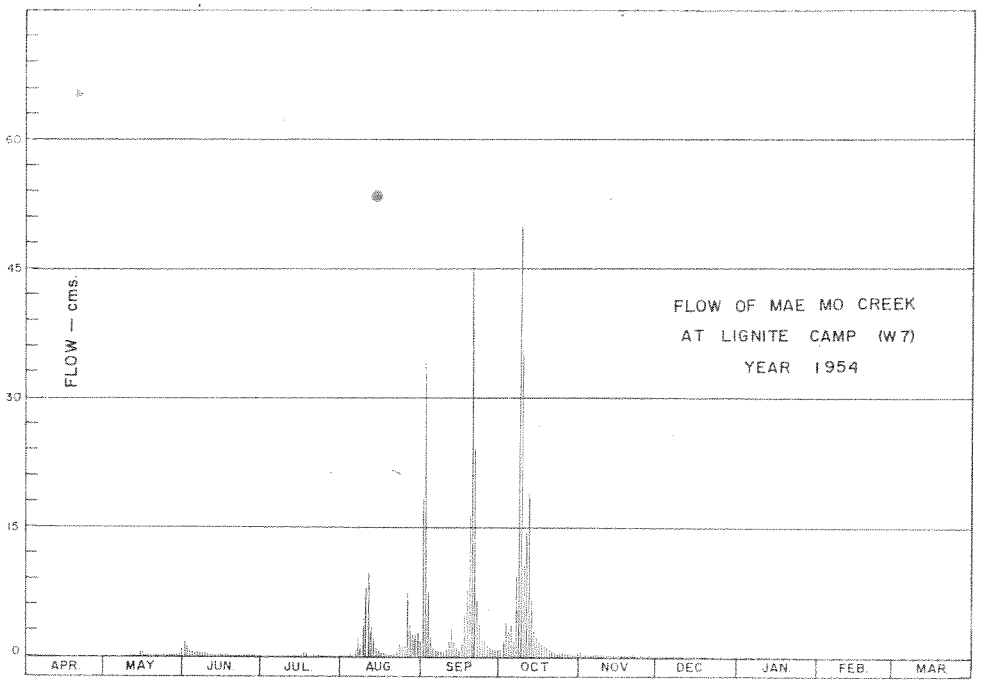
Remarks: No gage - height records and no flow for periods Apr. 1 to May 10, and Mar. 1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			297.54	297.10	297.09	297.50	297.26	296.22	297.08	297.05	296.99	
2			.49	.12	.14	299.67	.25	.20	.08	.04	.99	
3			.31	.12	.17	297.94	.79	.21	.08	.04	.99	
4			.25	.10	.21	.53	.65	.21	.07	.03	.99	
5			.26	.09	.17	.41	.79	.19	.07	.05	.99	
6			297.26	297.09	297.15	297.34	297.53	297.19	297.06	297.05	296.98	
7			.24	.09	.60	.30	.41	.17	.06	.02	.98	
8			.23	.12	.42	.27	299.59	.20	.06	.02	.98	
9			.21	.10	.77	.25	300.13	.16	.06	.02	.98	
10			.20	.11	298.22	.30	298.21	.14	.06	.03	.98	
11		297.15	297.19	297.10	298.29	297.45	298.92	297.15	197.05	297.02	296.98	
12		.14	.18	.10	297.60	.75	.76	.14	.05	.02	.98	
13		.11	.17	.09	.45	.44	297.88	.13	.05	.02	.98	
14		.17	.17	.09	.38	.34	.69	.13	.06	.01	.97	
15		.24	.16	.08	.33	.29	.62	.12	.08	.01	.97	
16		297.25	297.15	297.21	297.24	297.27	297.52	297.12	297.08	297.02	296.97	
17		.18	.14	.34	.26	.81	.44	.12	.08	.03	.97	
18		.16	.13	.19	.23	298.15	.37	.12	.07	.03	.97	
19		.15	.10	.15	.22	.13	.32	.11	.07	.02	.97	
20		.14	.12	.13	.22	300.11	.29	.11	.07	.01	.97	
21		297.14	297.11	297.13	297.23	298.60	297.26	297.11	297.07	297.01	296.99	
22		.13	.11	.13	.24	297.99	.24	.11	.07	.01	.99	
23		.12	.10	.12	.50	.69	.23	.10	.07	.01	.98	
24		.11	.10	.12	.41	.59	.20	.11	.07	.01	.98	
25		.11	.09	.13	.44	.48	.19	.10	.07	.00	.98	
26		297.10	297.09	297.12	298.15	297.39	297.17	297.09	297.06	297.00	296.97	
27		.13	.11	.13	297.80	.33	.16	.08	.06	.00	.97	
28		.13	.10	.12	.65	.29	.15	.08	.06	.00	.97	
29		.12	.09	.11	.66	.28	.14	.08	.06	.00		
30		.19	.09	.10	.71	.26	.14	.08	.05	.00		
31		.40		.10	.50		.16		.05	.00		
Mean			297.18	297.12	297.47	297.70	297.66	297.14	297.06	297.02	296.98	
Max.			297.54	297.34	298.29	300.11	300.13	297.22	297.08	297.05	296.99	
Min.			297.09	297.09	297.09	297.25	297.14	297.08	297.05	297.00	296.97	

WATER YEAR 1954 : Max. m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.70	0.04	0.02	1.70	0.76	0.40	0.05	0.01		
2			1.42	0.06	0.09	34	0.72	0.27	0.05	0.01		
3			0.64	0.04	0.13	5.10	4.09	0.25	0.05	0.01		
4			0.48	0.02	0.17	1.05	3.77	0.22	0.05	0.01		
5			0.48	0.01	0.17	1.05	5.77	0.17	0.05	0.01		
6			0.48	0.02	0.12	0.76	1.82	0.19	0.04	0.01		
7			0.42	0.02	2.16	0.64	1.19	0.17	0.04	0.01		
8			0.40	0.04	1.05	0.57	43	0.23	0.04	0.01		
9			0.34	0.03	3.00	0.51	50	0.17	0.04	0.01		
10			0.32	0.04	7.85	0.72	7.97	0.15	0.04	0.01		
11		0.22	0.29	0.03	9.79	1.42	14	0.17	0.03	0.01		
12		0.19	0.27	0.02	1.88	3.57	19	0.13	0.03	0.01		
13		0.14	0.25	0.01	1.00	1.38	4.53	0.12	0.03	0.01		
14		0.25	0.25	0.02	1.09	0.92	2.85	0.15	0.03	0.00		
15		0.42	0.23	0.03	0.64	0.64	2.24	0.15	0.04	0.00		
16		0.45	0.22	0.23	0.32	0.51	1.70	0.15	0.03	0.01		
17		0.27	0.19	0.60	0.34	4.80	1.38	0.13	0.03	0.01		
18		0.25	0.17	0.23	0.25	7.80	1.14	0.12	0.02	0.01		
19		0.22	0.12	0.15	0.23	7.39	0.96	0.10	0.03	0.01		
20		0.19	0.15	0.10	0.22	45	0.84	0.10	0.03	0.00		
21		0.19	0.13	0.09	0.23	13	0.72	0.10	0.03	0.00		
22		0.17	0.13	0.09	0.34	5.70	0.60	0.10	0.05	0.00		
23		0.15	0.12	0.06	1.55	2.77	0.57	0.09	0.02	0.00		
24		0.13	0.12	0.05	1.28	2.31	0.48	0.10	0.02	0.00		
25		0.13	0.10	0.08	1.33	1.70	0.48	0.09	0.02	0.00		
26		0.12	0.10	0.08	7.54	1.23	0.42	0.08	0.01	0.00		
27		0.17	0.15	0.05	3.47	0.96	0.40	0.05	0.01	0.00		
28		0.17	0.12	0.06	2.44	0.80	0.34	0.05	0.01	0.00		
29		0.15	0.10	0.05	2.57	0.76	0.29	0.05	0.01	0.00		
30		0.29	0.10	0.04	3.00	0.68	0.29	0.05	0.01	0.00		
31		1.00		0.03	1.70		0.32		0.01	0.00		
Total			9.93	2.43	56.02	149.89	169.72	4.316	0.990	0.148		
Mean			0.33	0.08	1.81	5.00	5.48	0.14	0.032	0.005		
Max.			1.70	0.60	9.79	45	50	0.40	0.05	0.01		
Min.			0.10	0.01	0.02	0.51	0.29	0.05	0.01	0.00		
Runoff - mcm.			0.857	0.210	4.840	12.950	14.666	0.373	0.085	0.013		

WATER YEAR 1954 : Max. 50 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	06.00	302.72	132				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
WANG RIVER BASIN

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

Location: Lat 18°- 18' - 21" N, Long 99°- 43' - 55" E, on left bank at Thanhin Office, 11 kilometers upstream from Mae Mo Railway Station, Amphoe Muang, Lampang.

Drainage Area: 196 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +296.923 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 - 1960

Rating Operation:

Period of Rating: 1954 - 1957
Rated by Flood: -
Rated by Current Meter: 1954 - 1957

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

Overbank Flow Conditions: No overbank flow.

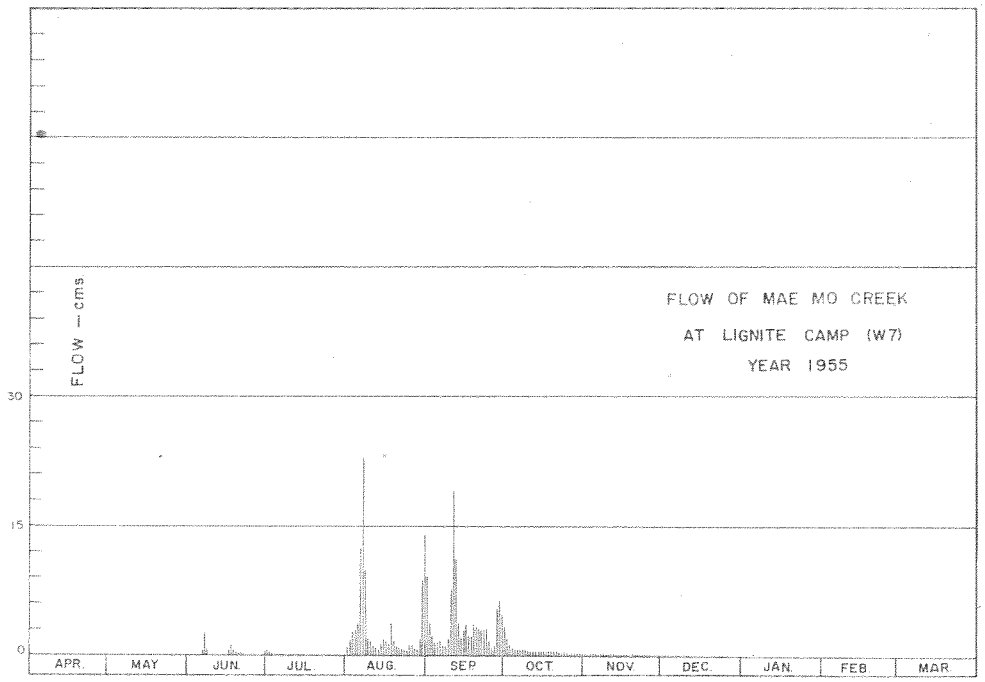
General Description: Records fair except those for periods of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions except those built by local resident. No adjustment made for virgin flow.

Remarks: No gage - height record and no flow for periods Apr. 1 to June 5 and Feb.17 to Mar.31

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				297.32	297.40	297.97	297.73	297.17	297.07	296.98	296.95	
2				.22	.50	.69	.53	.16	.07	.98	.95	
3				.14	.72	.57	.44	.17	.06	.97	.95	
4				.12	.74	.51	.38	.17	.06	.97	.94	
5				.11	.76	.50	.36	.16	.05	.97	.94	
6			297.06	297.10	298.01	297.54	297.33	297.15	257.05	296.97	294.94	
7			.72	.09	299.24	.43	.31	.14	.05	.96	.94	
8			.18	.08	297.87	.37	.30	.14	.05	.96	.94	
9			.09	.07	.58	.55	.29	.13	.04	.96	.94	
10			.07	.06	.52	.75	.28	.13	.04	.96	.94	
11			297.05	297.06	297.42	299.02	297.27	297.13	297.04	296.96	296.94	
12			.03	.04	.41	298.30	.26	.12	.04	.96	.95	
13			.01	.03	.37	297.76	.25	.12	.04	.96	.95	
14			296.99	.02	.43	.57	.25	.11	.04	.96	.94	
15			.97	.02	.52	.61	.24	.11	.03	.96	.94	
16			297.20	297.01	297.53	297.84	297.23	297.10	297.03	296.96	296.94	
17			.44	296.99	.41	.58	.22	.10	.03	.96		
18			.31	.98	.82	.45	.22	.09	.03	.96		
19			.24	.97	.44	.82	.21	.09	.03	.96		
20			.20	.97	.40	.58	.21	.08	.03	.96		
21			297.15	296.96	297.40	297.53	297.20	297.08	297.02	296.96		
22			.11	.96	.36	.47	.20	.07	.01	.95		
23			.08	.96	.33	.50	.19	.07	.00	.95		
24			.04	.96	.32	.76	.19	.06	296.99	.95		
25			.02	297.00	.46	.47	.18	.06	.99	.95		
26			297.00	297.00	297.44	297.37	297.18	297.07	296.99	296.95		
27			.00	296.99	.34	298.94	.17	.07	.99	.95		
28			.00	.98	.32	.02	.17	.08	.98	.95		
29			.00	.97	.31	.12	.16	.08	.98	.95		
30			.20	.96	.96	297.91	.17	.08	.98	.95		
31				297.07	298.74		.17		.98	.95		
Mean				297.04	297.62	297.75	297.27	297.11	297.02	296.96		
Max.				297.32	299.24	299.02	297.73	297.17	297.07	296.98		
Min.				296.96	297.31	297.37	297.16	297.06	296.98	296.95		

WATER YEAR 1955 : Max. 299.24 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.68	1.00	4.91	2.92	0.24	0.07			
2				0.41	1.50	2.63	1.66	0.22	0.07			
3				0.18	2.85	1.88	1.20	0.24	0.06			
4				0.15	3.00	1.55	0.93	0.24	0.06			
5				0.13	3.15	1.50	0.86	0.22	0.05			
6			0.06	0.11	5.30	1.72	0.75	0.20	0.05			
7			2.85	0.10	23	1.15	0.68	0.18	0.05			
8			0.27	0.09	4.01	0.89	0.65	0.18	0.05			
9			0.10	0.07	1.94	1.77	0.62	0.16	0.04			
10			0.07	0.06	1.61	3.07	0.59	0.16	0.04			
11			0.05	0.06	1.10	19	0.56	0.16	0.04			
12			0.03	0.04	1.05	8.50	0.53	0.15	0.04			
13			0.02	0.03	0.83	3.15	0.50	0.15	0.04			
14			0.01	0.03	1.15	1.88	0.50	0.13	0.04			
15			0.00	0.03	1.88	2.11	0.47	0.13	0.03			
16			0.35	0.02	1.66	3.77	0.44	0.11	0.03			
17			1.20	0.01	1.05	1.94	0.41	0.11	0.03			
18			0.68	0.00	3.61	1.25	0.41	0.10	0.03			
19			0.47	0.00	1.20	3.61	0.38	0.10	0.03			
20			0.35	0.00	1.00	1.94	0.38	0.09	0.03			
21			0.20	0.00	1.00	1.66	0.35	0.09	0.03			
22			0.13	0.00	0.86	1.35	0.35	0.07	0.02			
23			0.09	0.00	0.75	1.50	0.31	0.07	0.01			
24			0.04	0.00	0.72	3.15	0.31	0.06	0.01			
25			0.03	0.01	1.30	1.35	0.27	0.06	0.01			
26			0.01	0.01	1.20	0.89	0.27	0.07	0.01			
27			0.01	0.09	0.79	18	0.24	0.07	0.01			
28			0.01	0.06	0.72	5.40	0.24	0.09	0.00			
29			0.01	0.02	0.68	6.43	0.22	0.09	0.00			
30			0.35	0.00	4.82	4.34	0.24	0.09	0.00			
31				0.07	14		0.24		0.00			
Total			7.39	2.315	88.73	112.29	18.48	4.05	0.99			
Mean			0.25	0.07	2.86	3.74	0.60	0.13	0.03			
Max.			2.85	0.68	23	19	2.92	0.24	0.07			
Min.			0.00	0.00	0.68	0.89	0.22	0.06	0.00			
Runoff - mcm.			0.638	0.200	7.666	9.702	1.597	0.348	0.086			

WATER YEAR 1955 : Max. 23 Min. 0.00 Mean 0.64 Annual Runoff 20.237 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	07.00	301.01	69				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT
WATER YEAR 1956
WANG RIVER BASIN

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

Location: Lat 18°- 18' - 21" N, Long 99°- 43' - 55" E, on left bank at Thanhin Lignite Office, 11 kilometers upstream from Mae Mo Railway Station, Amphoe Muang, Lampang.

Drainage Area: 196 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +296.923 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 - 1960

Rating Operation:

Period of Rating: 1954 - 1957

Rated by Float: -

Rated by Current Meter: 1954 - 1957

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

Overbank Flow Conditions: No overbank flow.

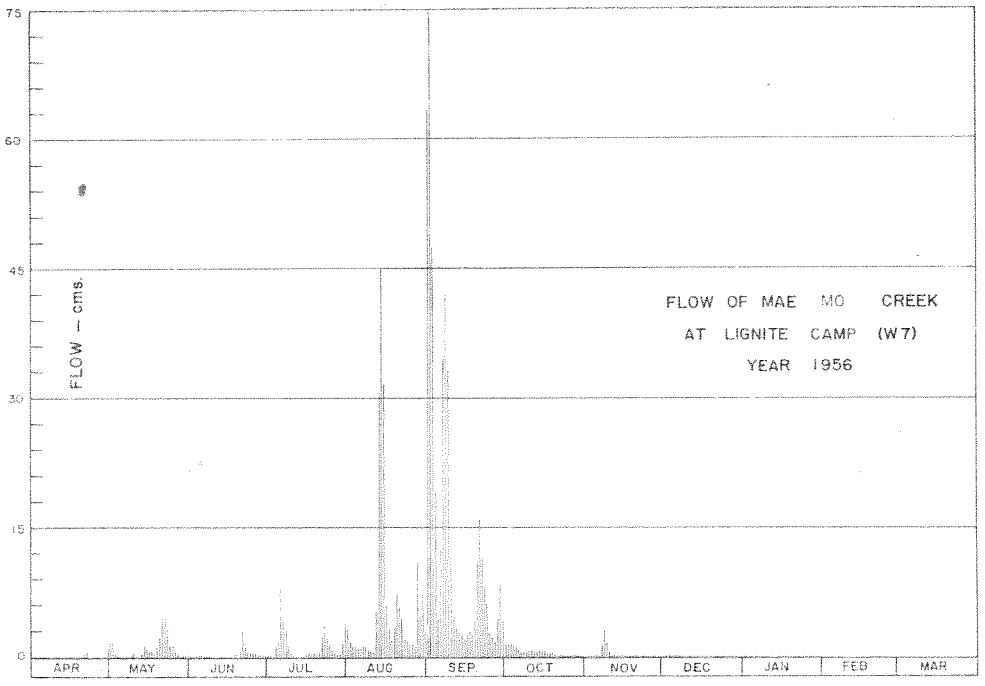
General Description: Records fair except those for periods of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage - height record and no flow for periods Apr.1 - 20 and Feb. 12 to Mar. 30

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		297.62	297.16	297.15	297.73	297.51	297.36	297.03	296.98	296.98	296.94	
2		.57	.15	.15	.49	300.58	.32	.03	.99	.98	.94	
3		.16	.18	.14	.40	299.43	.35	.03	.99	.98	.94	
4		.10	.20	.22	.36	298.26	.30	.02	.99	.98	.94	
5		.07	.18	.77	.34	297.83	.21	.02	.99	.98	.94	
6		297.04	297.16	298.18	297.31	297.35	297.17	297.02	297.00	296.98	296.94	
7		.02	.15	297.73	.42	299.35	.15	.19	.00	.98	.94	
8		296.99	.13	.51	.37	.96	.15	.61	.00	.97	.93	
9		297.01	.11	.36	.30	298.93	.14	.25	.00	.97	.93	
10		.32	.10	.28	.26	.20	.18	.14	.00	.97	.93	
11		297.13	297.09	297.24	297.23	297.90	297.19	297.04	297.00	296.97	296.94	
12		.08	.09	.21	.29	.74	.16	.03	296.99	.97		
13		.24	.09	.19	298.15	.62	.15	.03	.99	.97		
14		.51	.08	.22	300.09	.54	.19	.03	.99	.97		
15		.34	.08	.20	298.30	.45	.16	.02	.99	.96		
16		297.36	297.07	297.18	297.85	297.54	297.13	297.02	296.99	296.96		
17		.42	.07	.36	.65	.61	.12	.01	.98	.96		
18		.23	.26	.26	.52	.52	.17	.01	.98	.96		
19		.43	.22	.30	.44	.54	.15	.01	.98	.96		
20		.65	.22	.27	298.12	298.27	.13	.01	297.00	.96		
21	297.16	297.88	297.76	297.30	298.04	298.71	297.12	297.00	.00	296.96		
22	.16	298.36	.47	.49	297.89	.23	.10	296.99	.00	.95		
23	296.99	297.56	.38	.81	.60	.10	.09	.99	.00	.95		
24	.97	.34	.30	.60	.53	297.71	.08	.99	.00	.95		
25	.96	.50	.32	.52	.41	.54	.07	.99	296.99	.95		
26	296.96	297.34	297.26	297.36	297.46	297.44	297.06	296.98	296.99	296.95		
27	.95	.27	.22	.27	.38	.37	.05	.98	.99	.95		
28	.94	.23	.19	.23	298.44	.49	.05	.97	.99	.95		
29		.20	.17	.24	297.85	.97	.05	.97	.99	.94		
30		.19	.15	.35	298.24	.39	.04	.97	.99	.94		
31		.17		.80	297.71		.04		.99	.94		
Mean		297.33	297.20	297.38	297.71	298.06	297.15	297.05	296.99	296.96		
Max.		298.36	297.76	298.18	300.09	300.58	297.36	297.61	297.00	296.98		
Min.		296.99	297.07	297.14	297.23	297.37	297.04	296.97	296.98	296.94		

WATER YEAR 1956 : Max. 300.58 m. Min. 296.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		1.94	0.18	0.18	3.32	1.69	1.76	0.12	0.05	0.05	0.01	
2		1.65	0.16	0.22	1.69	75	1.46	0.12	0.06	0.05	0.01	
3		0.11	0.22	0.24	1.23	32	1.59	0.12	0.06	0.05	0.01	
4		0.03	0.27	0.50	1.08	9.25	1.33	0.11	0.06	0.05	0.01	
5		0.01	0.22	3.76	0.99	4.57	0.94	0.11	0.06	0.05	0.01	
6		0.00	0.18	8.27	0.99	6.02	0.75	0.11	0.07	0.05	0.01	
7		0.00	0.16	3.40	1.43	33	0.60	0.72	0.07	0.05	0.01	
8		0.00	0.12	1.59	1.43	42	0.57	3.11	0.07	0.04	0.01	
9		0.00	0.09	0.75	0.75	17	0.53	0.75	0.07	0.04	0.01	
10		0.50	0.07	0.38	0.60	8.50	0.64	0.38	0.07	0.04	0.01	
11		0.06	0.06	0.29	0.50	5.02	0.75	0.14	0.07	0.04	0.01	
12		0.01	0.06	0.22	0.71	3.58	0.67	0.12	0.06	0.04		
13		0.09	0.06	0.20	15	1.95	0.57	0.12	0.06	0.04		
14		1.33	0.05	0.27	45	2.52	0.71	0.12	0.06	0.04		
15		0.64	0.05	0.24	10	2.00	0.57	0.11	0.06	0.03		
16		0.64	0.04	0.20	4.66	2.58	0.79	0.11	0.06	0.03		
17		0.83	0.04	0.71	2.80	3.02	0.38	0.09	0.05	0.03		
18		0.22	0.44	0.38	1.88	2.58	0.50	0.09	0.05	0.03		
19		0.91	0.32	0.47	1.23	2.72	0.41	0.09	0.05	0.03		
20		2.06	0.52	0.44	7.25	10	0.29	0.09	0.07	0.03		
21	0.44	3.76	3.10	0.57	6.14	16	0.24	0.07	0.07	0.03		
22	0.44	8.75	1.18	1.48	4.39	6.87	0.22	0.06	0.07	0.02		
23	0.06	1.54	0.75	3.76	2.06	8.27	0.18	0.06	0.07	0.02		
24	0.04	0.60	0.47	2.26	1.94	4.21	0.16	0.06	0.07	0.02		
25	0.03	1.28	0.53	1.59	1.43	2.72	0.16	0.06	0.06	0.02		
26	0.03	0.60	0.38	0.83	1.59	2.13	0.16	0.05	0.06	0.02		
27	0.02	0.38	0.27	0.47	1.13	1.76	0.14	0.05	0.06	0.02		
28	0.01	0.27	0.22	0.35	11	2.58	0.14	0.04	0.06	0.02		
29		0.22	0.18	0.35	4.57	8.30	0.14	0.04	0.06	0.01		
30		0.20	0.16	0.87	7.21	1.43	0.14	0.04	0.06	0.01		
31		0.16		3.94	3.25		0.14	0.04	0.06	0.01		
Total	1.07	28.79	10.35	39.18	146.96	319.21	17.63	7.26	1.93	1.01		
Mean	0.036	0.93	0.34	1.26	4.74	10.6	0.57	0.24	0.06	0.03		
Max.	0.44	8.75	3.10	8.27	45	75	1.76	3.11	0.07	0.05		
Min.	0.00	0.00	0.04	0.18	0.50	1.43	0.14	0.04	0.05	0.01		
Runoff - mcm.	0.092	2.487	0.894	3.385	12.697	27.580	1.523	0.627	0.167	0.087		

WATER YEAR 1956 : Max. 75 Min. 0.00 Mean 1.57 Annual Runoff 49.541 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 2	19.00	303.11	156				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 downstream from confluence with Mae Mo Creek and 2 kilometers downstream from Mae Mo Railway Station, Amphoe Mae Tha, Lampang.

Drainage Area: 754 sq.km.

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

Overbank Flow Conditions: No overbank flow.

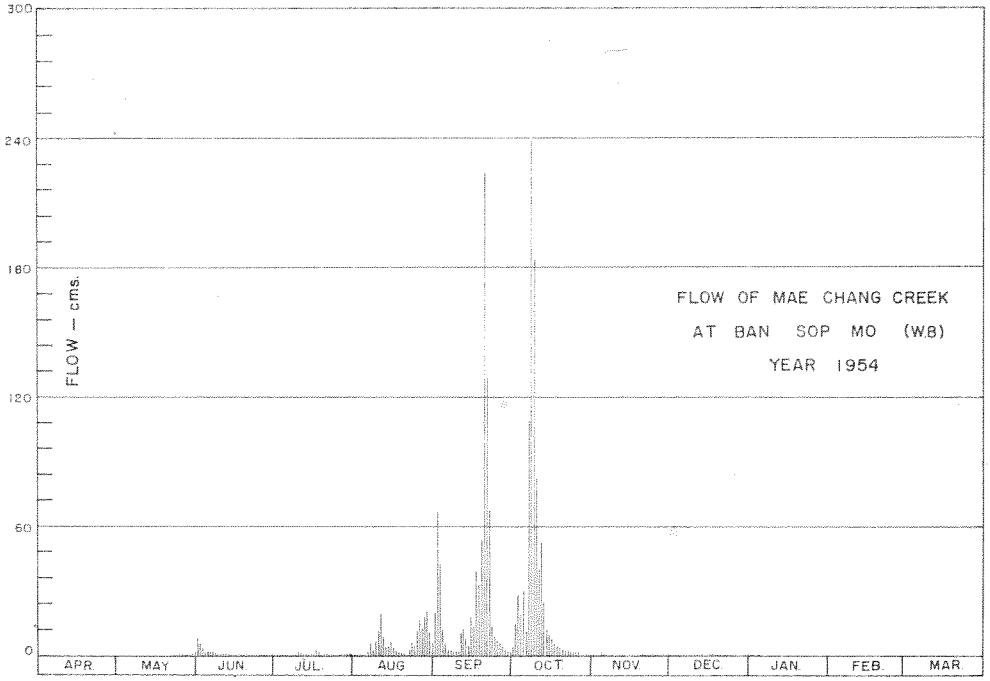
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage - height record and no flow for period Apr. 1 to May 22 and Jan. 4 to Mar.27

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			281.62	280.95	280.94	281.54	281.37	281.22	281.07	180.99		
2			.47	.96	281.04	282.87	.40	.21	.07	.99		
3			.29	.95	.06	281.84	282.05	.21	.06	.97		
4			.20	.95	.07	.50	281.94	.23	.06			
5			.20	.94	.08	.35	282.26	.18	.06			
6			281.27	280.94	281.00	281.29	281.70	281.15	281.06			
7			.19	.94	.45	.33	.51	.14	.07			
8			.14	.94	.32	.27	284.01	.14	.06			
9			.11	281.04	.63	.23	.01	.13	.06			
10			.15	.22	.74	.22	282.46	.12	.05			
11			281.08	281.08	282.05	281.62	282.35	281.12	281.05			
12			.05	.02	281.57	.80	.64	.12	.05			
13			.05	280.98	.34	.51	.00	.12	.04			
14			.02	.96	.32	.34	281.78	.11	.04			
15			.01	.94	.51	.96	.70	.11	.03			
16			281.01	281.05	281.29	281.39	281.57	281.11	281.03			
17			280.99	.37	.20	282.17	.47	.11	.03			
18			.98	.17	.16	.28	.40	.11	.03			
19			.97	.09	.15	.53	.35	.11	.03			
20			.96	.04	.15	284.35	.32	.11	.02			
21			280.95	281.18	281.13	282.70	281.30	281.10	281.02			
22			.95	.17	.14	.12	.28	.10	.02			
23		280.95	.95	.07	.52	281.76	.26	.09	.01			
24		.94	.95	.02	.40	.64	.25	.09	.02			
25		.94	.95	280.99	.51	.55	.25	.09	.02			
26		280.94	280.95	280.98	281.92	281.45	281.21	281.08	281.02			
27		.94	.95	281.00	.62	.39	.20	.08	.00			
28		.94	.94	.09	.92	.34	.24	.07	.00			282.22
29		.94	.93	280.99	282.09	.31	.24	.07	.00			281.03
30		.96	.94	.96	281.63	.29	.23	.07	.00			280.96
31		281.22		.95	.43		.23		280.99			280.95
Mean			281.07	281.03	281.40	281.76	281.74	281.12	281.03			
Max.			281.62	281.37	282.09	284.35	284.01	281.23	281.07			
Min.			280.93	280.94	280.94	281.22	281.20	281.07	280.99			

WATER YEAR 1954 : Max. 284.35 m. Min. 280.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1954 TO MARCH 31,1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			8.00	0.10	0.10	7.00	4.00	1.00	0.20	0.10		
2			5.00	0.15	0.35	67	4.00	1.00	0.20	0.10		
3			3.00	0.15	0.50	14	28	1.00	0.20	0.10		
4			1.50	0.15	0.50	6.00	19	2.00	0.20			
5			1.50	0.10	0.32	4.00	31	1.00	0.20			
6			2.00	0.10	0.20	3.00	11	1.00	0.20			
7			1.25	0.10	6.00	3.00	7.00	1.00	0.20			
8			1.00	0.15	3.00	8.00	239	0.70	0.20			
9			0.70	0.35	8.00	2.00	185	0.70	0.15			
10			1.00	2.00	10	1.50	39	0.60	0.15			
11			0.50	0.50	20	10	34	0.55	0.15			
12			0.35	0.25	8.00	13	52	0.50	0.15			
13			0.25	0.15	4.00	7.00	19	0.50	0.10			
14			0.20	0.10	3.00	4.00	12	0.50	0.10			
15			0.20	0.10	7.00	18	10	0.50	0.10			
16			0.20	0.50	3.00	4.00	8.00	0.55	0.10			
17			0.15	3.00	2.00	39	5.00	0.55	0.10			
18			0.15	1.00	1.50	31	4.00	0.55	0.10			
19			0.15	0.60	1.25	44	4.00	0.45	0.10			
20			0.15	0.35	1.00	224	3.00	0.45	0.10			
21			0.10	0.55	1.00	50	3.00	0.40	0.10			
22			0.10	1.00	1.00	23	3.00	0.35	0.10			
23		0.14	0.10	0.45	6.00	13	2.00	0.30	0.10			
24		0.13	0.10	0.30	4.00	8.00	2.00	0.30	0.10			
25		0.13	0.10	0.15	6.00	7.00	2.00	0.30	0.10			
26		0.13	0.10	0.10	17	5.00	2.00	0.25	0.10			
27		0.13	0.10	0.20	9.00	4.00	1.00	0.25	0.10			
28		0.13	0.10	0.55	18	3.00	1.00	0.20	0.10			0.20
29		0.13	0.10	0.20	21	2.00	1.00	0.25	0.10			0.32
30		0.16	0.10	0.10	9.00	2.00	1.00	0.20	0.10			0.10
31		1.72		0.10	5.00		1.00		0.10			0.00
Total		2.80	28.25	13.60	176.72	620.50	737.00	17.90	4.10	0.30		0.62
Mean		0.09	0.94	0.44	5.70	20.7	23.8	0.60	0.13	0.01		0.20
Max.		1.72	8.00	3.00	21	224	239	2.00	0.20	0.10		0.32
Min.		0.00	0.10	0.10	0.10	1.50	1.00	0.20	0.10	0.00		0.00
Runoff - mcm.		0.242	2.441	1.175	15.269	53.611	63.677	1.546	0.354	0.026		0.054

WATER YEAR 1954 : Max. 239 Min. 0.00 Mean 4.39 Annual Runoff 138.395 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 8	15.00	285.76	450				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 downstream from confluence with Mae Mo Creek and 2 kilometers downstream from Mae Mo Railway Station, Amphoe Mae Tha, Lampang.

Drainage Area: 754 sq.km.

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

Overbank Flow Conditions: No overbank flow.

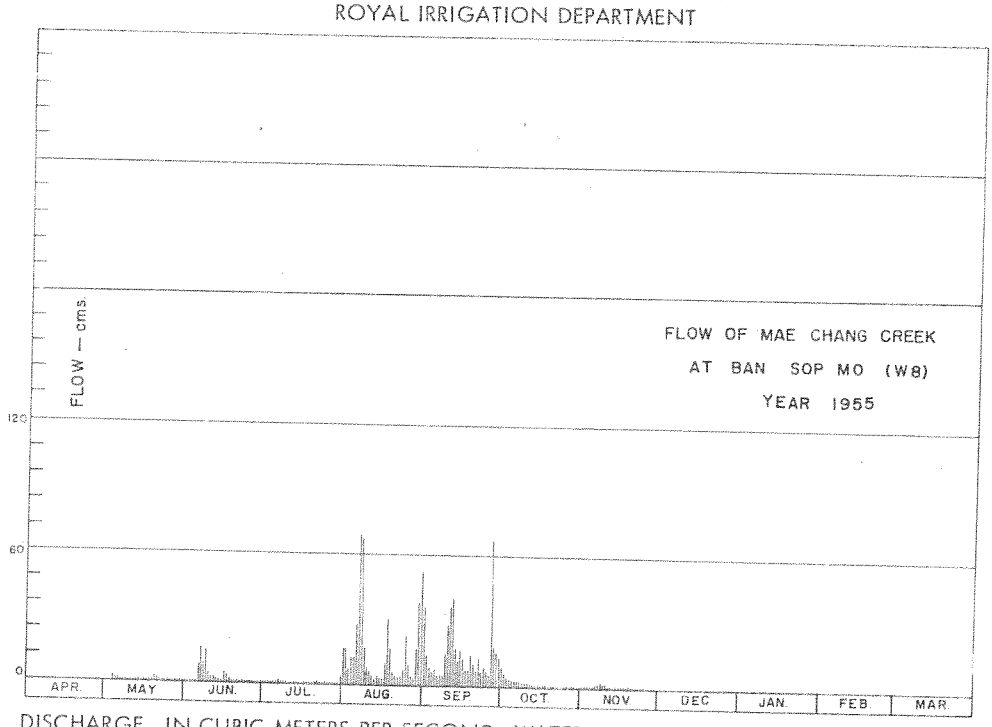
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			280.79	280.88	281.73	282.13	281.53	280.94	280.78	280.74		
2			.80	.97	.88	281.80	.41	.99	.78	.74		
3			.80	.99	.31	.55	.34	281.00	.77	.73		
4		281.18	.78	.92	.61	.44	.28	280.97	.77	.73		
5		.06	.77	.91	.69	.51	.25	.98	.77	.73		
6		280.87	280.79	281.01	281.72	281.40	281.21	281.00	280.77	280.73		
7		.83	281.93	.10	282.83	.35	.17	.12	.77	.73		
8		.82	.57	280.98	.92	.29	.13	.21	.76	.73		
9		.81	.86	.92	281.66	.63	.11	.03	.76	.73		
10		.81	.34	.89	.52	282.20	.10	.10	.76	.73		
11		280.78	281.15	280.86	281.44	282.45	281.07	280.99	280.76	280.73		
12		.77	.07	.83	.32	.59	.06	.96	.76	.73		
13		.77	.02	.82	.25	281.89	.04	.91	.76	.73		
14		.95	280.98	.80	.33	.60	.02	.90	.76	.73		
15		.86	.96	.79	.37	.68	.01	.90	.76	.73		
16		280.82	281.30	280.78	281.27	281.77	280.98	280.89	280.75	280.73		
17		.80	.24	.85	.29	.54	.97	.89	.75	.73		
18		.81	.09	.83	282.14	.40	.96	.87	.75	.72		
19		.80	.00	.80	281.64	.83	.96	.87	.75	.72		
20		281.19	280.94	.78	.37	.55	.95	.86	.75	.72		
21		281.08	280.91	281.77	281.31	281.48	280.94	280.86	280.75	280.72		
22		.05	.89	.91	.24	.71	.93	.85	.75	.72		
23		280.91	.85	.83	.29	.42	.92	.84	.75	.72		
24		.86	.83	.84	.30	.54	.92	.83	.75	.72		
25		.82	.82	.83	282.04	.36	.91	.84	.74	.72		
26		280.79	280.80	280.79	281.41	281.31	280.90	280.82	280.74	280.72		
27		.81	.80	.78	.28	282.90	.89	.83	.74	.72		
28		.79	.81	.82	.21	281.94	.91	.82	.74	.72		
29		.77	.81	.83	.34	.85	.91	.81	.74	.72		
30		.91	.81	.78	282.39	.78	.91	.81	.74	.72		
31		.83		.93	.68		.90		.74	.72		
Mean			281.02	280.86	281.64	281.73	281.05	280.92	280.75	280.73		
Max.			281.93	281.10	282.92	282.90	281.53	281.21	280.78	280.74		
Min.			280.77	280.77	281.25	281.29	280.90	280.81	280.74	280.72		

WATER YEAR 1955 : Max. 282.92 m. Min. 280.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.05	0.29	16	37	7.80	0.64	0.04	0.02		
2			0.05	0.91	16	14	5.75	0.93	0.04	0.02		
3			0.05	0.91	5.91	7.80	4.46	1.00	0.03	0.01		
4		2.30	0.04	0.50	17	5.90	3.22	0.80	0.03	0.01		
5		1.18	0.04	0.47	12	7.20	2.86	0.88	0.03	0.01		
6		0.26	0.05	0.27	12	4.76	2.62	1.00	0.03	0.01		
7		0.14	16	1.68	69	4.32	2.18	2.60	0.03	0.01		
8		0.11	7.60	6.71	66	2.86	1.78	2.96	0.03	0.01		
9		0.09	15	0.50	16	7.00	1.50	1.20	0.03	0.01		
10		0.08	4.32	0.41	6.07	28	1.41	1.80	0.03	0.01		
11		0.04	1.78	0.29	5.42	38	1.25	0.94	0.03	0.01		
12		0.04	1.41	0.20	2.98	41	1.09	0.76	0.03	0.01		
13		0.04	1.00	0.17	2.28	17	0.83	0.48	0.05	0.01		
14		0.50	0.83	0.14	4.16	9.20	1.09	0.44	0.03	0.01		
15		0.23	0.71	0.08	2.98	16	0.85	0.44	0.03	0.01		
16		0.11	3.91	0.08	2.24	13	0.83	0.40	0.02	0.01		
17		0.05	3.10	0.23	3.10	7.40	0.71	0.40	0.02	0.01		
18		0.08	1.68	0.14	30	5.90	0.68	0.30	0.02	0.01		
19		0.05	0.91	0.11	10	14	0.55	0.30	0.02	0.01		
20		2.39	0.58	0.08	4.18	8.00	0.55	0.28	0.02	0.01		
21		1.32	0.50	0.08	3.80	7.00	0.44	0.28	0.02	0.01		
22		1.09	0.44	0.50	2.50	13	0.38	0.24	0.02	0.01		
23		0.38	0.23	0.20	3.64	5.90	0.38	0.22	0.02	0.01		
24		0.23	0.17	0.20	3.64	8.40	0.38	0.18	0.02	0.01		
25		0.11	0.17	0.20	22	5.08	0.38	0.22	0.02	0.01		
26		0.05	0.11	0.11	5.42	4.02	0.32	0.16	0.02	0.01		
27		0.08	0.11	0.11	5.22	67	0.26	0.18	0.02	0.01		
28		0.05	0.11	0.20	2.50	18	0.38	0.16	0.02	0.01		
29		0.04	0.17	0.23	4.46	15	0.35	0.14	0.02	0.01		
30		0.38	0.17	0.11	45	13	0.35	0.14	0.02	0.01		
31		0.14		0.50	53		0.26		0.02	0.01		
Total		11.55	61.29	11.11	446.02	444.74	45.87	19.87	0.79	0.33		
Mean		0.37	2.04	0.36	14.4	14.8	1.48	0.66	0.02	0.01		
Max.		2.39	16	1.68	69	67	7.80	2.96	0.04	0.02		
Min.		0.04	0.04	0.08	2.28	2.86	0.26	0.14	0.02	0.01		
Runoff - mcm.		0.998	5.295	0.960	38.536	38.425	3.963	1.717	0.068	0.028		

WATER YEAR 1955 : Max. 69 Min. 0.00 Mean 2.84 Annual Runoff 89.992 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 7	08.00	284.12	182				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 downstream from confluence with Mae Mo Creek and 2 kilometers downstream from Mae Mo Railway Station, Amphoe Mae Tha, Lampang.

Drainage Area: 754 sq.km.

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

Overbank Flow Conditions: No overbank flow.

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

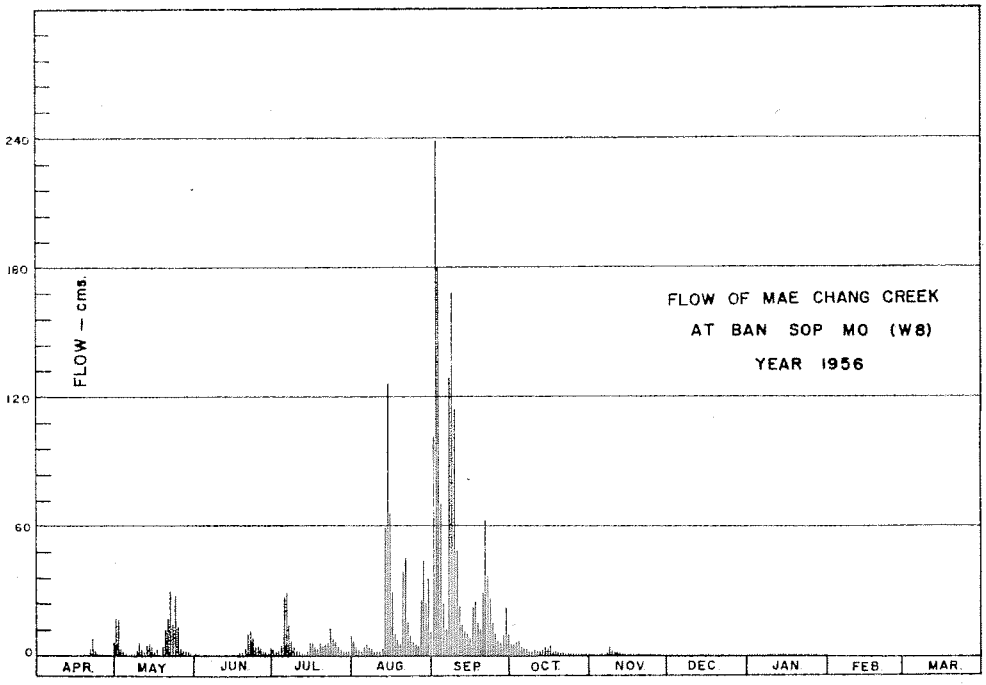
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		281.97	280.95	281.22	281.55	281.53	281.37	280.94	280.81	280.77		
2		.91	.93	.12	.35	284.21	.35	.99	.80	.77		
3		.21	.94	.07	.22	283.55	.47	281.00	.80	.77		
4		.06	.95	.12	.16	282.45	.47	280.97	.79	.76		
5		.00	.92	282.17	.28	.04	.30	.98	.79	.76		
6		281.00	280.91	282.30	281.41	281.82	281.24	281.00	280.79	280.76		
7		280.94	.89	281.65	.35	283.38	.19	.12	.78	.76		
8		.91	.89	.43	.28	284.10	.15	.21	.78	.76		
9		281.07	.87	.30	.21	283.32	.11	.03	.78	.76		
10		.46	.87	.19	.20	282.43	.16	.10	.78	.75		
11		281.08	280.87	281.12	281.13	281.96	281.14	280.99	280.78	280.75		
12		.06	.85	.05	.14	.82	.11	.96	.77	.75		
13		.40	.84	.00	.51	.67	.07	.91	.77	.75		
14		.38	.83	.04	283.68	.65	.27	.90	.77	.75		
15		.34	.88	.46	282.31	.52	.23	.90	.77	.75		
16		281.18	280.86	281.46	281.85	281.97	281.12	280.89	280.77	280.75		
17		.27	.84	.34	.61	282.02	.08	.89	.76	.74		
18		.02	281.17	.25	.49	281.64	.11	.87	.76	.74		
19	280.92	.22	.12	.44	.40	.71	.05	.87	.76	.74		
20	.83	.76	.04	.37	282.46	282.17	.02	.86	.77	.74		
21	281.06	281.78	281.75	281.38	282.61	282.82	280.99	280.86	280.78	280.74		
22	.61	282.38	.77	.42	281.96	.35	.97	.85	.78	.74		
23	.17	281.54	.52	.86	.66	.13	.99	.84	.79	.74		
24	280.96	282.21	.28	.57	.47	281.76	281.00	.83	.79	.73		
25	.89	281.45	.37	.55	.38	.58	280.98	.84	.79	.73		
26	280.86	281.22	281.23	281.35	281.38	281.47	280.97	280.82	280.78	280.73		
27	.83	.13	.09	.23	.55	.40	.93	.83	.78	.73		
28	.81	.15	.02	.16	282.32	.43	.90	.82	.78	.72		
29	.79	.05	.17	.10	.07	282.00	.90	.81	.78	.72		
30	281.06	.00	.31	.15	.34	281.44	.90	.81	.77	.72		
31		280.98		.67	281.72		.89		.77	.72		
Mean		281.33	281.06	281.37	281.68	282.18	281.11	280.92	280.78	280.74		
Max.		282.38	281.77	282.30	283.68	284.21	281.47	281.21	280.81	280.77		
Min.		280.91	280.83	281.00	281.13	281.40	280.89	280.81	280.76	280.72		

WATER YEAR 1956 : Max. 284.21 m. Min. 280.70 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		17	0.59	3.00	7.00	7.00	5.00	0.20	0.14	0.05		
2		16	0.50	2.00	4.00	239	5.00	0.44	0.11	0.05		
3		3.00	0.50	1.50	3.00	116	6.00	0.40	0.11	0.05		
4		1.50	0.59	2.00	2.00	38	7.00	0.36	0.09	0.04		
5		0.80	0.50	27	4.00	21	4.00	0.36	0.09	0.04		
6		0.70	0.40	29	5.00	11	3.00	0.40	0.09	0.04		
7		0.50	0.30	10	4.00	129	3.00	1.96	0.07	0.04		
8		0.25	0.30	5.00	3.00	169	2.00	3.45	0.07	0.04		
9		1.00	0.20	4.00	2.00	94	2.00	1.58	0.07	0.04		
10		6.00	0.20	2.00	2.00	39	3.00	2.28	0.07	0.02		
11		1.50	0.25	2.00	2.00	20	2.00	1.49	0.07	0.02		
12		1.50	0.15	1.00	2.00	14	2.00	0.59	0.05	0.02		
13		5.00	0.15	1.00	16	11	2.00	0.59	0.05	0.02		
14		5.00	0.10	1.50	126	10	4.00	0.48	0.05	0.02		
15		4.00	0.30	6.00	34	8.00	3.00	0.52	0.05	0.02		
16		2.00	0.20	6.00	13	23	2.00	0.48	0.05	0.02		
17		3.00	0.10	4.00	9.00	25	1.50	0.44	0.04	0.02		
18		1.00	1.50	3.00	6.00	12	2.00	0.36	0.04	0.02		
19	0.20	3.00	1.75	6.00	4.00	12	1.30	0.36	0.04	0.02		
20	0.01	12	1.00	4.00	37	27	1.00	0.32	0.05	0.02		
21	0.90	11	10	5.00	45	63	1.00	0.32	0.07	0.02		
22	8.00	36	12	5.00	17	35	1.00	0.24	0.07	0.02		
23	2.00	8.00	7.00	13	9.00	25	0.60	0.24	0.09	0.02		
24	0.60	28	3.00	8.00	6.00	13	1.00	0.20	0.09	0.01		
25	0.30	5.00	4.00	7.00	5.00	9.00	0.70	0.20	0.09	0.01		
26	0.30	3.00	3.00	4.00	4.00	7.00	0.70	0.20	0.07	0.01		
27	0.08	2.00	1.50	3.00	8.00	6.00	0.70	0.24	0.07	0.01		
28	0.02	2.00	1.00	2.00	44	6.00	0.60	0.20	0.07	0.01		
29	0.09	1.50	1.00	2.00	22	22	0.50	0.16	0.07	0.01		
30	0.90	1.00	4.00	2.00	36	6.00	0.50	0.16	0.05	0.01		
31		0.90		9.00	11		0.50		0.05	0.01		
Total	13.40	183.15	56.08	180.00	482.00	1,217.00	68.60	19.22	2.19	0.75		
Mean	0.45	5.91	1.87	5.81	15.9	40.5	2.21	0.64	0.07	0.024		
Max.	8.00	36.	12	29	126	239	7.00	3.45	0.14	0.05		
Min.	0.00	0.25	0.10	1.00	2.00	6.00	0.50	0.16	0.04	0.01		
Runoff – mcm.	1.158	15.824	4.845	15.552	42.509	105.149	5.927	1.661	0.189	0.065		

WATER YEAR 1956 : Max. 239 Min. 0.00 Mean 6.12 Annual Runoff 192.878 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 2	19.00	286.23	460				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 infront of district liquor factory near Wat Chetawan, Amphor Muang, Phrae.

Drainage Area: 7,590 sq.km.

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 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.

Overbank Flow Conditions: Overbank flow was observed at elevation +151.99 m. (M.S.L.) and included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1957 - 60. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

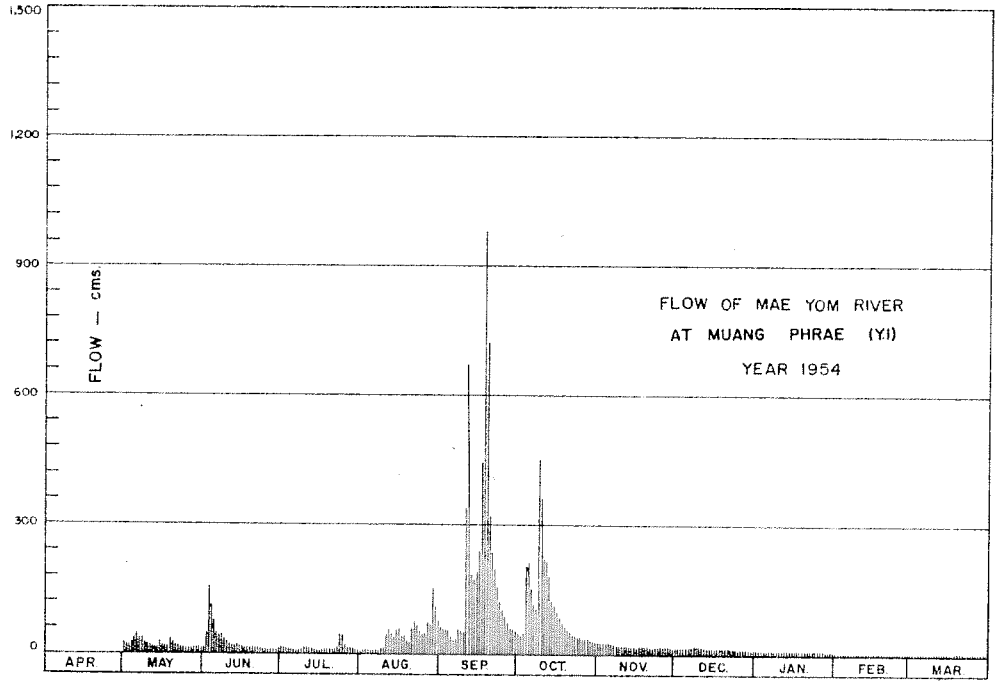
Remarks: No records for Apr. 1 - 30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		145.68	145.49	145.50	145.32	146.24	146.04	145.74	145.51	145.36	145.22	145.16
2		.60	146.11	.45	.35	.17	.00	.72	.51	.36	.21	.16
3		.58	147.15	.44	.41	.19	.10	.70	.51	.36	.21	.16
4		.72	146.71	.41	.35	.15	147.49	.68	.51	.35	.21	.16
5		.88	.35	.39	.34	145.96	.57	.68	.51	.35	.21	.16
6		146.03	146.01	145.38	145.32	145.83	147.15	145.68	145.51	145.34	145.20	145.16
7		145.85	145.95	.38	.34	.87	146.78	.64	.57	.34	.20	.16
8		.88	.88	.37	.37	146.14	.65	.62	.59	.34	.19	.16
9		.74	.79	.38	.46	.05	149.12	.60	.55	.33	.19	.16
10		.64	.70	.54	.50	.08	148.68	.60	.54	.33	.19	.16
11		145.56	145.64	145.50	146.03	150.23	147.66	145.59	145.51	145.33	145.19	145.15
12		.52	.61	.45	.19	149.12	.60	.57	.51	.33	.19	.15
13		.49	.59	.40	.08	147.43	.25	.57	.48	.33	.18	.15
14		.46	.67	.38	145.92	.25	146.85	.56	.48	.33	.18	.15
15		.75	.55	.37	146.13	.38	.75	.55	.48	.33	.18	.15
16		145.54	145.52	145.37	146.23	147.91	146.62	145.54	145.46	145.33	145.18	145.14
17		.48	.51	.40	145.96	149.66	.51	.56	.46	.33	.18	.14
18		.48	.49	.41	146.00	151.54	.34	.56	.44	.32	.17	.14
19		.83	.47	.44	145.78	150.34	.28	.55	.44	.32	.17	.14
20		.73	.45	.42	.69	148.05	.15	.54	.44	.31	.17	.14
21		145.61	145.44	145.42	146.23	148.70	146.06	145.53	145.44	145.31	145.18	145.14
22		.56	.43	.40	.44	.70	.01	.52	.43	.31	.19	.14
23		.52	.42	.55	.34	147.26	145.98	.52	.43	.31	.18	.14
24		.49	.40	.99	.12	146.85	.93	.54	.42	.31	.18	.13
25		.48	.38	.72	.03	.64	.91	.56	.41	.31	.17	.13
26		145.48	145.40	145.63	146.09	146.50	145.88	145.55	145.41	145.31	145.17	145.13
27		.48	.38	.47	.33	.37	.87	.54	.41	.30	.17	.13
28		.48	.37	.54	.31	.19	.89	.54	.40	.29	.17	.13
29		.48	.36	.46	147.11	.14	.84	.52	.39	.29		.13
30		.49	.34	.41	146.84	.11	.79	.51	.38	.29		.16
31		.50		.36	.44		.76		.38	.29		.14
Mean		145.61	145.68	145.46	145.94	147.30	146.60	145.59	145.47	145.32	146.19	145.15
Max.		146.03	147.15	145.99	147.11	151.54	149.12	145.74	145.59	145.36	145.22	145.16
Min.		145.48	145.34	145.36	145.32	145.83	145.76	145.51	145.38	145.29	145.17	145.13

WATER YEAR 1954 : Max. 151.54 m. Min. 145.13 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		27	18	18	11	67	51	30	18	12	8.40	7.20
2		22	57	16	12	62	48	29	18	12	8.20	7.20
3		21	160	16	14	63	96	28	18	12	8.20	7.20
4		29	115	14	12	60	205	27	18	12	8.20	7.20
5		39	77	14	12	49	216	27	16	12	8.20	7.20
6		50	49	13	11	36	160	27	18	12	8.00	7.20
7		37	44	13	12	38	120	24	21	12	8.00	7.20
8		39	39	13	13	59	107	23	22	12	7.80	7.20
9		30	33	13	16	52	476	22	20	11	7.80	7.20
10		24	28	20	18	94	396	22	20	11	7.80	7.20
11		20	24	18	50	289	228	22	18	11	7.80	7.00
12		19	23	16	63	476	220	21	18	11	7.80	7.00
13		18	22	14	54	196	172	21	17	11	7.60	7.00
14		16	26	13	42	172	127	20	17	11	7.60	7.00
15		31	20	13	58	189	117	20	17	11	7.60	7.00
16		20	19	13	66	266	104	20	16	11	7.60	6.80
17		17	18	14	45	582	93	20	16	11	7.60	6.80
18		17	18	14	48	1,041	76	20	16	11	7.40	6.80
19		36	17	16	33	735	70	20	16	11	7.40	6.80
20		30	16	15	27	288	60	20	16	10	7.40	6.80
21		23	16	15	66	400	53	19	16	10	7.60	6.80
22		20	15	14	86	400	49	19	15	10	7.80	6.80
23		19	15	20	76	173	46	19	15	10	7.60	6.80
24		18	14	47	58	127	42	20	15	10	7.60	6.60
25		17	13	29	50	106	41	20	14	10	7.40	6.60
26		17	14	24	55	92	39	20	14	10	7.40	6.60
27		17	15	17	75	79	38	20	14	10	7.40	6.60
28		17	13	20	73	63	39	20	14	9.80	7.40	6.60
29		17	12	18	155	59	36	19	14	9.80		6.60
30		18	12	14	126	57	33	18	13	9.80		7.20
31		18		12	86		32		13	9.80		6.80
Total		745	958	551	1,523	6,746	3,550	657	515	336.20	216.60	215.00
Mean		24.0	31.9	17.1	49.1	225	114	21.9	16.6	10.8	7.73	6.93
Max.		50	160	47	155	1,041	476	30	22	12	8.40	7.20
Min.		17	12	12	11	36	32	18	13	9.80	7.40	6.60
Runoff — mcm.		64.195	82.771	45.878	131.587	582.854	306.720	56.765	44.496	29.048	18.714	18.576

WATER YEAR 1954 : Max. 1,041 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 18	18.00	151.79	1,117				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 infront of district liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,590 sq.km.

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 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.

Overbank Flow Conditions: Overbank flow was observed at elevation +151.99 m. (M.S.L.) and included for flow computation.

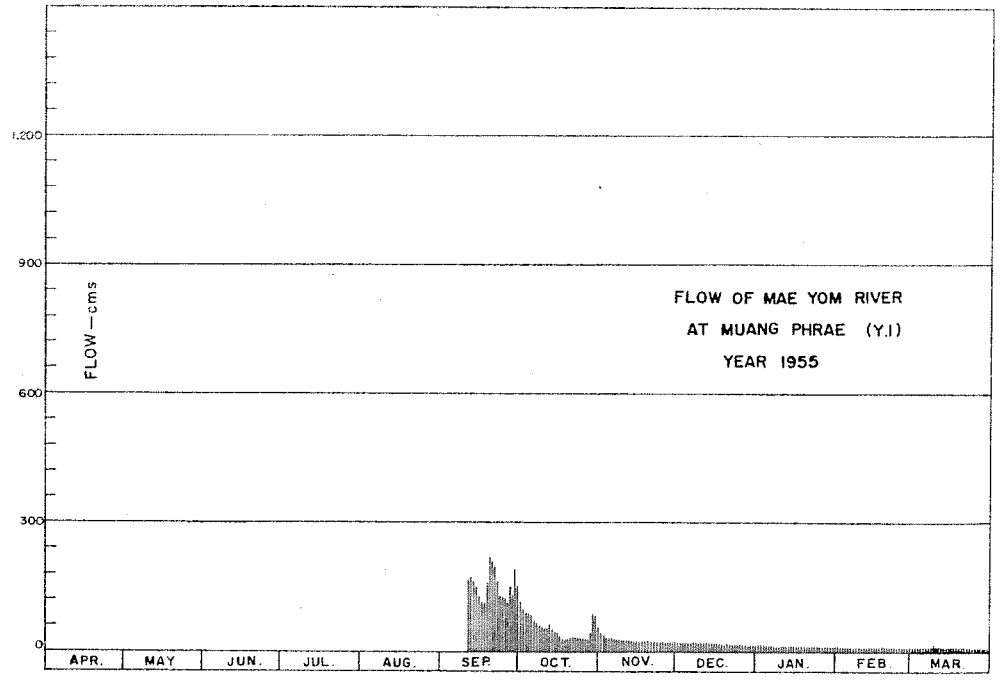
General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1957-60. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

Remarks: No gage – height record Apr. 1 to Sep.10

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							146.65	145.91	145.57	145.43	145.34	145.28
2							.52	.84	.57	.42	.34	.28
3							.49	.80	.57	.42	.33	.28
4							.42	.78	.56	.41	.33	.28
5							.41	.76	.56	.41	.33	.28
6							146.29	145.72	145.55	145.41	145.33	145.28
7							.20	.70	.58	.41	.32	.28
8							.15	.70	.58	.40	.32	.30
9							.14	.68	.58	.40	.32	.42
10							.08	.68	.58	.40	.32	.37
11						147.21	146.08	145.67	145.58	145.40	145.32	145.29
12						.25	.19	.66	.58	.39	.32	.27
13						.16	.05	.65	.52	.39	.32	.29
14						.07	145.98	.64	.52	.39	.32	.29
15						146.83	.96	.64	.51	.38	.32	.28
16						146.70	145.83	145.63	145.50	145.38	145.32	145.28
17						.66	.74	.61	.48	.38	.32	.27
18						.85	.74	.63	.47	.38	.32	.27
19						147.59	.73	.63	.47	.37	.32	.26
20						.47	.77	.62	.47	.37	.32	.25
21						147.31	145.78	145.62	145.47	145.36	145.32	145.24
22						.04	.77	.60	.47	.36	.32	.24
23						146.77	.77	.60	.47	.36	.32	.24
24						.86	.76	.59	.46	.36	.31	.24
25						.82	.75	.59	.44	.35	.31	.23
26						146.64	145.72	145.58	145.44	145.35	145.31	145.23
27						147.08	.70	.58	.43	.35	.30	.22
28						146.77	146.00	.58	.43	.35	.30	.22
29						147.38	.45	.58	.43	.34	.30	.22
30						146.87	.36	.57	.43	.34		.22
31							.00		.43	.34		.22
Mean						147.59	145.76	145.66	145.51	145.38	145.32	145.27
Max.						152.69	146.65	145.91	145.58	145.43	145.34	145.42
Min.						146.50	145.70	145.57	145.43	145.34	145.30	145.22

WATER YEAR 1955 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							107	41	21	15	12	9.60
2							94	36	21	15	12	9.60
3							91	34	21	15	11	9.60
4							84	33	20	14	11	9.60
5							83	32	20	14	11	9.60
6							71	29	20	14	11	9.60
7							64	28	21	14	11	9.60
8							60	28	21	14	11	10
9							59	27	21	14	11	15
10							54	27	21	14	11	13
11						167	54	26	21	14	11	9.80
12						172	63	26	21	14	11	9.40
13						161	52	25	19	14	11	9.80
14						150	46	24	19	14	11	9.80
15						125	45	24	18	13	11	9.60
16						112	36	24	18	13	11	9.60
17						108	30	23	17	13	11	9.40
18						127	30	24	17	13	11	9.40
19						219	30	24	17	13	11	9.20
20						202	32	23	17	13	11	9.00
21						179	33	23	17	12	11	8.80
22						147	32	22	17	12	11	8.80
23						119	32	22	17	12	11	8.80
24						128	32	22	16	12	10	8.80
25						124	31	22	16	12	10	8.60
26						106	29	21	16	12	10	8.60
27						152	28	21	15	12	10	8.40
28						119	48	21	15	12	10	8.40
29						189	87	21	15	12	10	8.40
30						129	78	21	15	12		8.40
31							48		15	12		8.40
Total							1,663	774	565	409	315	294.60
Mean							53.6	25.8	18.2	13.2	10.9	9.52
Max.							107	41	21	15	12	15
Min.							30	21	15	12	10	8.40
Runoff - MCM.							143.683	66.874	48.816	35.338	27.216	25.453

WATER YEAR 1955 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	06.00	152.79	1,465				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 infront of district liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,590 sq.km.

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 gage site.
Elevation: +154.810 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.

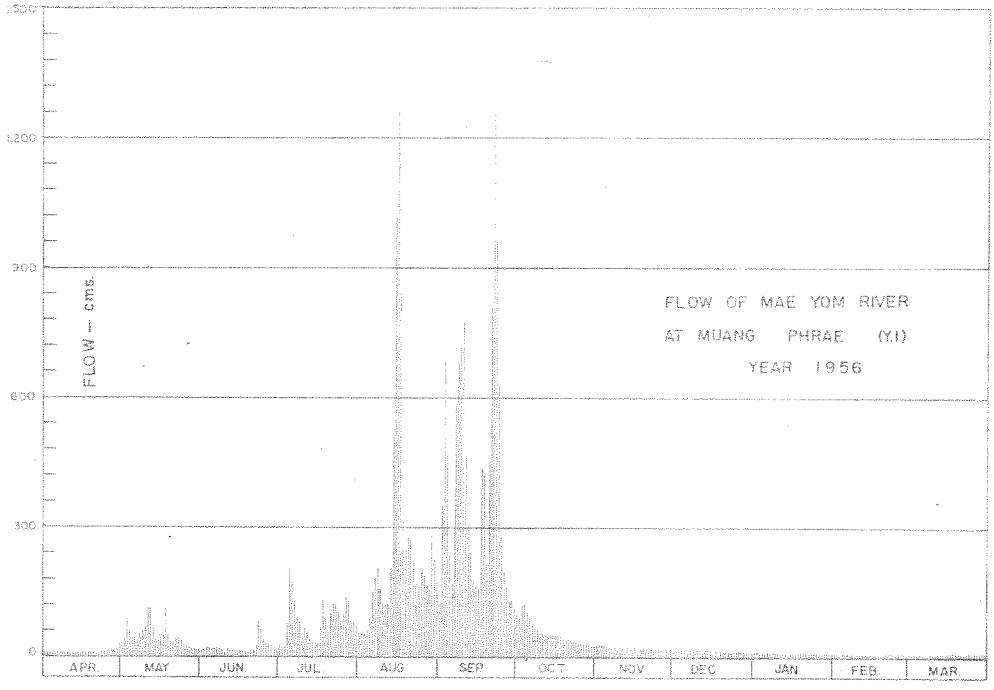
Overbank Flow Conditions: Overbank flow was observed at elevation +151.99 m. (M.S.L.) and included for flow computation.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1957–60. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.21	145.81	145.46	145.69	146.10	146.90	146.59	145.71	145.54	145.36	145.26	145.17
2	.21	.78	.45	.62	.09	147.89	.50	.72	.54	.36	.26	.17
3	.21	146.44	.63	.59	.08	150.15	.76	.70	.54	.36	.26	.17
4	.20	.14	.57	.74	.15	148.78	.79	.68	.54	.35	.26	.17
5	.20	145.92	.56	147.50	.26	147.73	.59	.66	.53	.35	.25	.17
6	145.20	145.92	145.55	147.26	146.92	147.22	146.45	145.64	145.53	145.35	145.25	145.17
7	.19	.77	.52	146.89	147.33	.88	.32	.64	.52	.34	.25	.17
8	.19	146.05	.50	.45	.47	150.06	.24	.65	.51	.34	.24	.17
9	.19	.12	.45	.40	.09	.16	.18	.63	.51	.33	.24	.17
10	.19	.18	.40	146.95	146.83	.49	.12	.62	.50	.33	.24	.17
11	145.18	146.70	145.55	146.27	146.82	148.85	146.08	145.61	145.50	145.33	145.23	145.17
12	.18	.71	.51	.09	.80	.14	.04	.60	.49	.32	.23	.18
13	.18	.02	.48	145.88	147.26	147.64	.05	.60	.48	.32	.23	.19
14	.18	145.86	.43	.77	149.12	.23	.05	.62	.48	.32	.22	.17
15	.18	.80	.42	.75	151.27	.16	.02	.65	.47	.31	.22	.16
16	145.18	146.01	145.47	145.75	152.22	147.08	146.03	145.65	145.46	145.31	145.22	145.16
17	.18	145.77	.38	.83	149.36	148.89	.06	.62	.46	.31	.21	.15
18	.17	146.59	.38	146.92	148.12	.27	145.99	.62	.46	.30	.21	.17
19	.17	145.95	.37	.41	147.74	147.55	.94	.61	.45	.30	.21	.32
20	.19	.79	.42	.12	.99	.91	.90	.60	.44	.30	.21	.27
21	145.19	145.78	145.43	146.53	147.98	150.65	145.88	145.59	145.43	145.29	145.20	145.22
22	.20	.94	146.21	.83	.55	152.29	.85	.59	.42	.29	.20	.18
23	.21	.93	.42	.78	.29	150.95	.81	.58	.41	.29	.20	.14
24	.27	.81	.18	.62	.16	148.53	.79	.57	.40	.28	.19	.14
25	.41	.72	145.96	.42	.45	147.71	.78	.56	.40	.28	.19	.14
26	145.38	145.64	145.78	146.46	147.37	147.32	145.76	145.56	145.39	145.28	145.19	145.13
27	.38	.55	.77	.94	.23	.07	.74	.56	.38	.28	.18	.13
28	.37	.53	.62	.89	.12	146.88	.73	.55	.37	.28	.19	.13
29	.37	.52	.52	.41	.98	.89	.72	.55	.37	.27		.13
30	.75	.50	.50	.38	.57	.71	.71	.55	.37	.27		.12
31		.48		.32	.25		.71		.37	.27		.11
Mean	145.24	145.93	145.60	146.34	147.58	148.38	146.07	145.61	145.46	145.30	145.22	145.17
Max.	145.75	146.71	146.42	147.50	152.22	152.29	146.79	145.72	145.54	145.36	145.26	145.32
Min.	145.17	145.48	145.37	145.59	146.08	146.71	145.71	145.55	145.37	145.27	145.19	145.11

WATER YEAR 1956 : Max. 152.29 m. Min. 145.11 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.20	55	16	27	56	132	101	29	20	12	9.20	7.40
2	8.20	55	16	25	55	268	92	29	20	12	9.20	7.40
3	8.20	86	24	22	54	690	118	28	20	12	9.20	7.40
4	8.00	59	21	50	60	414	121	27	20	12	9.20	7.40
5	8.20	47	20	206	69	238	101	26	19	12	9.00	7.40
6	8.20	42	20	175	134	168	87	24	19	12	9.00	7.40
7	7.80	32	19	151	182	261	74	24	19	12	9.00	7.40
8	7.80	52	18	85	202	669	67	25	18	12	8.80	7.40
9	7.80	58	16	82	193	692	62	24	18	11	8.80	7.40
10	7.60	62	18	44	125	772	56	25	18	11	8.80	7.40
11	7.60	112	20	70	124	425	54	23	18	11	8.60	7.40
12	7.40	113	18	55	122	302	51	22	18	11	8.60	7.60
13	7.60	50	17	39	173	226	50	22	17	11	8.60	7.80
14	7.60	37	15	32	476	190	50	23	17	11	8.40	7.40
15	7.80	34	15	31	966	161	50	25	17	10	8.40	7.20
16	7.60	40	17	31	1,254	152	50	24	16	10	8.40	7.20
17	7.80	32	13	36	522	454	53	23	16	10	8.20	7.00
18	7.40	101	13	134	299	413	47	23	16	10	8.20	7.40
19	7.40	44	15	83	240	213	43	23	16	10	8.20	11
20	7.80	33	15	58	278	266	40	22	16	10	8.20	9.40
21	7.80	33	15	95	277	810	39	22	15	10	8.00	8.40
22	8.00	43	65	125	213	1,277	37	22	15	10	8.00	7.60
23	8.20	42	84	120	176	682	35	21	14	10	8.00	6.80
24	9.40	35	62	104	161	369	33	21	14	10	7.80	6.80
25	14	29	46	84	199	235	33	20	14	10	7.80	6.80
26	13	24	35	88	188	181	32	20	14	10	7.80	6.60
27	13	20	32	136	178	150	30	20	13	10	7.60	6.60
28	13	19	28	131	156	130	30	20	13	10	7.80	6.60
29	13	19	19	83	277	131	29	20	13	9.40		6.60
30	31	18	18	80	216	113	29	20	13	9.40		6.40
31		17		74	172		29		13	9.40		6.20
Total	286	1,405	736	2,512	7,749	11,336	1,725	695	509	330	237	229
Mean	9.53	45.0	24	81	250	378	56	23	16	11	8.46	7.39
Max.	31	113	84	206	1,254	1,277	121	29	20	12	9.20	11
Min.	7.40	17	13	22	54	113	29	20	13	9.40	7.60	6.20
Runoff - mcm.	24.710	121.392	63.590	217.057	669.514	979.430	149.040	60.048	43.978	28.512	20.477	19.786

WATER YEAR 1956 : Max. 1,277 Min. 6.20 Mean 76.0 Annual Runoff 2,397.514 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 22	06.00	152.74	1,443				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
YOM RIVER BASIN

Mae Yom River at Talat Thani, Sukhothai (Y.4)

Location: Lat 17°- 00' - 18" N, Long 99°- 49' - 31" E, on left bank infront of the house of Governor, Amphoe Muang, Sukhothai.

Drainage Area: 17,731 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: +45.00 m. (M.S.L.)

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

Location: About 22 meters from upper gage.
Elevation: +47.579 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 - 60, 1962 to date

Rating Operation:

Period of Rating: 1954 - 56, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1967 - Cont'd.

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

Overbank Flow Conditions: No overbank flow.

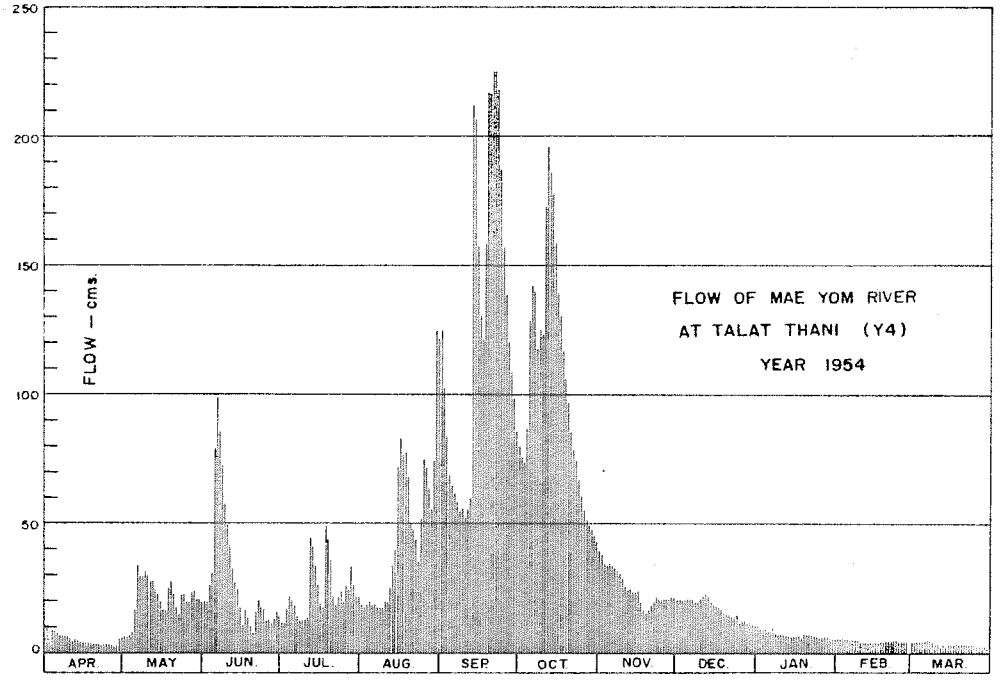
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.96	45.76	46.38	46.13	46.44	48.60	47.87	47.08	46.34	45.96	45.71	45.56
2	.94	.78	.39	.10	.38	.29	.80	.04	.34	.94	.70	.55
3	.92	.84	.66	.40	.36	47.96	.76	46.98	.33	.92	.69	.54
4	.88	.87	.78	.56	.38	.79	48.03	.95	.30	.91	.69	.53
5	.82	46.22	47.91	.50	.37	.75	.87	.91	.30	.89	.68	.51
6	45.79	46.85	48.21	46.43	46.34	47.64	48.93	46.90	46.30	45.89	45.67	45.51
7	.78	.72	47.98	.29	.41	.50	.85	.86	.30	.87	.67	.50
8	.79	.74	.73	.21	.41	.42	.74	.80	.29	.87	.66	.50
9	.77	.79	.42	.20	.38	.44	.93	.77	.29	.86	.65	.49
10	.75	.73	.25	.22	.48	.35	.94	.73	.30	.84	.64	.47
11	45.73	46.68	47.05	46.28	46.45	47.42	48.94	46.68	46.36	45.83	45.63	45.47
12	.69	.67	46.75	47.13	.64	.54	.94	.63	.37	.82	.62	.46
13	.66	.56	.64	.05	.91	48.95	.89	.66	.33	.81	.62	.45
14	.64	.45	.53	46.83	47.14	.94	.85	.63	.29	.80	.61	.44
15	.63	.35	.29	.53	.78	.75	.76	.57	.25	.79	.61	.43
16	45.62	46.28	46.04	46.40	47.98	48.56	48.62	46.53	46.23	45.79	45.60	45.42
17	.61	.29	.27	.37	.89	.47	.53	.49	.22	.79	.59	.42
18	.60	.61	.13	47.30	.92	.77	.42	.48	.18	.78	.50	.41
19	.58	.68	45.98	.14	.74	.96	.31	.46	.15	.79	.58	.40
20	.57	.46	.84	46.71	.48	.96	.16	.47	.13	.78	.57	.39
21	45.55	46.29	46.26	46.50	47.42	48.97	48.01	46.45	46.12	45.77	45.56	45.39
22	.55	.23	.42	.41	.29	.97	47.89	.43	.10	.77	.57	.37
23	.56	.50	.34	.50	.12	.96	.80	.43	.09	.77	.59	.37
24	.58	.50	.27	.56	.40	.89	.70	.41	.08	.76	.60	.36
25	.57	.41	.14	.42	.93	.76	.59	.40	.06	.75	.61	.35
26	45.55	46.40	46.11	47.19	47.84	48.62	47.50	46.40	46.05	45.74	45.61	45.34
27	.51	.54	.08	.17	.68	.44	.41	.39	.03	.73	.60	.33
28	.55	.52	.15	46.85	.52	.32	.35	.38	.02	.73	.59	.32
29	.74	.44	.25	.64	.96	.16	.28	.37	.01	.73		.35
30	.77	.42	.18	.52	48.60	47.98	.22	.36	.00	.72		.34
31		.40		.51	.55		.16		45.98	.72		.33
Mean	45.69	46.42	47.97	46.58	47.19	48.30	48.19	46.62	46.20	45.83	45.62	45.43
Max.	45.96	46.85	48.21	47.30	47.98	48.97	48.94	47.08	46.37	45.96	45.71	45.56
Min.	45.51	45.76	45.84	46.10	46.36	47.35	47.16	46.36	45.98	45.78	45.56	45.32

WATER YEAR 1954 : Max. 48.97 m. Min. 45.32 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.68	6.16	20	12	19	125	80	39	21	11	5.68	4.48
2	9.32	6.48	20	12	18	98	76	38	21	10	5.68	4.48
3	8.96	7.52	28	18	19	78	74	35	21	9.50	5.68	4.60
4	8.24	8.06	32	22	20	67	90	34	21	9.68	5.68	4.72
5	7.16	15	80	20	19	64	179	35	21	8.96	5.52	4.96
6	6.64	34	99	18	19	61	192	34	21	8.96	5.36	4.96
7	6.48	30	84	14	18	58	190	33	21	10	5.36	5.08
8	6.64	30	70	13	18	55	168	32	20	7.88	5.08	5.08
9	6.32	32	56	13	18	56	176	31	20	6.80	5.08	4.48
10	6.00	30	49	13	20	53	174	29	21	7.88	4.84	3.28
11	5.68	28	41	14	20	56	174	26	22	7.34	4.72	3.28
12	5.08	28	31	45	26	61	196	24	23	6.98	4.48	3.28
13	4.72	25	27	42	35	212	185	25	22	6.64	4.48	3.28
14	4.48	22	24	34	43	207	177	24	20	6.16	4.36	3.40
15	4.36	19	17	23	72	156	158	24	19	6.64	4.48	3.28
16	4.24	17	11	19	83	131	138	24	18	6.64	4.60	3.04
17	4.12	17	17	18	77	122	127	20	18	7.16	4.72	3.40
18	4.00	26	13	49	78	159	115	17	17	5.84	4.60	3.52
19	3.76	28	10	43	66	217	105	16	16	7.52	4.96	3.40
20	3.64	22	7.52	35	50	217	94	17	15	7.34	4.84	3.28
21	3.40	17	16	21	48	222	85	19	15	7.16	4.84	3.40
22	3.40	15	21	19	43	222	79	20	14	7.16	4.96	3.28
23	3.52	23	18	22	36	217	74	22	14	7.16	5.08	3.28
24	3.76	23	17	24	53	186	68	21	15	6.80	5.08	3.28
25	3.64	20	13	20	75	157	61	21	12	6.32	4.96	3.16
26	3.40	20	13	46	71	138	56	21	13	6.16	4.72	3.04
27	2.92	24	12	45	63	119	52	21	13	6.16	4.60	2.80
28	3.40	24	14	33	56	108	50	21	12	6.16	4.72	2.60
29	5.84	21	16	26	77	97	48	22	12	6.16		2.92
30	6.32	21	14	22	125	85	45	22	11	6.00		2.80
31		20		22	122		43		11	6.00		2.70
Total	159.12	659.22	890.52	777	1,507	3,804	3,529	767	540	230.16	139.16	112.54
Mean	5.30	21.3	29.7	25.1	48.6	127	114	25.6	17.4	7.42	4.97	3.63
Max.	9.68	34	99	49	125	222	196	39	23	11	5.68	5.08
Min.	2.92	6.16	7.52	12	18	53	43	16	11	5.84	4.36	2.60
Runoff - MCM.	13.748	56.957	76.941	67.133	130.205	328.666	304.906	66.269	46.656	19.886	12.023	9.723

WATER YEAR 1954 : Max. 222 Min. 2.60 Mean 35.9 Annual Runoff 1,133.112 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	12.00	*48.97	222				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
YOM RIVER BASIN

Mae Yom River at Talat Thani, Sukhothai (Y.4)

Location: Lat 17°- 00' - 18" N, Long 99°- 49' - 31" E, on left bank infront of house of Governer, Amphoe Muang, Sukhothai.

Drainage Area: 17,731 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +45.00 m. (M.S.L.)

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

Location: About 22 meters from upper gage.
Elevation: +47.579 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 - 60, 1962 to date.

Rating Operation:

Period of Rating: 1954 - 56, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1967 - Cont'd.

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

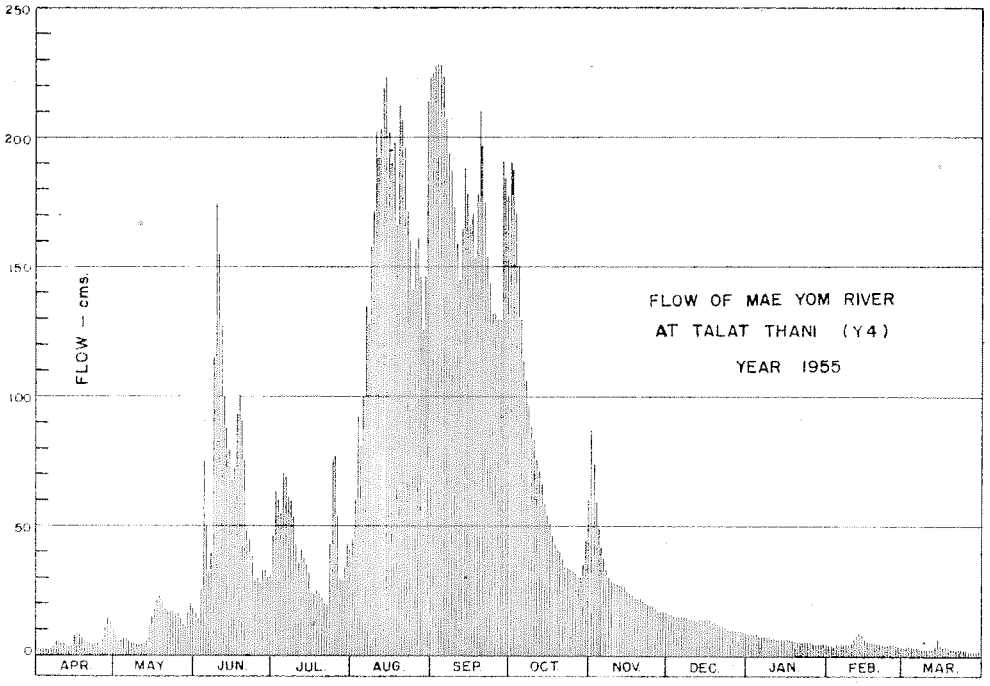
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.33	45.80	46.05	47.03	46.98	48.96	48.85	47.79	46.18	45.78	45.54	45.39
2	.34	.70	45.97	.38	47.10	.98	.83	.58	.15	.77	.54	.39
3	.35	.73	46.00	.35	.86	.97	.69	.26	.14	.76	.53	.39
4	.35	.73	47.35	.22	.47	.97	.55	.07	.13	.76	.51	.38
5	.35	.71	.05	.51	.84	.95	.33	46.90	.13	.74	.50	.37
6	45.35	45.67	46.72	47.48	48.26	48.88	48.20	46.80	46.12	45.73	45.50	45.36
7	.43	.64	.53	.33	.23	.83	.15	.72	.10	.72	.49	.34
8	.54	.61	48.98	.31	.51	.81	47.98	.64	.09	.71	.49	.33
9	.55	.57	.82	.16	.65	.71	.85	.59	.07	.70	.48	.32
10	.52	.50	.65	46.95	.84	.62	.73	.54	.06	.69	.50	.31
11	45.48	45.51	48.38	46.82	48.71	48.52	47.69	46.51	45.05	45.68	45.64	45.30
12	.44	.49	.00	.82	.93	.68	.65	.50	.04	.67	.73	.29
13	.41	.59	47.84	.73	.93	.81	.54	.48	.04	.66	.75	.45
14	.44	.95	.69	.57	.94	.76	.45	.45	.03	.66	.68	.68
15	.72	46.13	.53	.48	.84	.68	.35	.41	.02	.65	.63	.45
16	45.79	46.28	47.40	46.39	48.82	48.71	47.25	46.39	46.00	45.64	45.58	45.41
17	.74	.36	.95	.37	.87	.59	.16	.37	45.99	.63	.56	.39
18	.66	.41	48.05	.39	.70	.70	.07	.35	.97	.62	.53	.37
19	.59	.51	47.85	.35	.94	.91	.03	.34	.96	.62	.51	.33
20	.55	.23	.68	.29	.93	.82	46.96	.33	.94	.61	.49	.30
21	45.52	46.19	47.32	46.23	48.83	48.68	46.87	46.32	45.92	45.61	45.47	45.29
22	.48	.16	.07	.20	.67	.57	.81	.29	.91	.60	.45	.27
23	.52	.14	46.88	.04	.62	.49	.78	.27	.90	.60	.45	.26
24	.53	.11	.65	47.49	.46	.40	.75	.26	.89	.59	.45	.25
25	.47	.08	.65	.22	.59	.40	.70	.24	.88	.59	.45	.24
26	45.64	45.98	46.56	46.98	48.64	48.37	46.68	46.23	45.87	45.59	45.45	45.23
27	.93	.92	.66	.81	.51	.39	.63	.21	.85	.58	.43	.22
28	46.01	.86	.67	.74	.38	.83	.64	.21	.84	.57	.41	.21
29	45.99	46.22	.56	.96	.56	.78	.77	.21	.83	.52	.40	.20
30	.90	.26	.61	47.05	.93	.77	47.02	.20	.81	.56		.19
31		.15		46.88	.95		.15		.80	.56		.18
Mean	45.56	45.82	47.27	46.88	48.49	48.72	47.45	46.55	45.99	45.65	45.52	45.32
Max.	46.01	46.41	48.98	47.51	48.95	48.98	48.85	47.79	46.18	45.78	45.75	45.68
Min.	45.33	45.30	45.97	46.20	46.96	48.37	46.63	46.20	45.80	45.56	45.40	45.18

WATER YEAR 1955 : Max. 48.98 m. Min. 45.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.48	7.54	16	47	47	225	190	87	16	8.49	4.76	5.60
2	2.48	5.28	14	64	60	228	186	73	16	8.30	4.40	3.60
3	2.56	5.98	13	68	92	228	162	56	15	8.11	3.60	3.50
4	2.56	6.40	35	55	81	228	144	47	15	8.11	4.76	3.40
5	2.56	6.12	49	70	102	225	121	39	15	7.73	4.64	3.39
6	2.56	5.56	30	69	134	202	110	35	15	7.54	4.64	3.20
7	3.70	5.14	24	61	128	192	104	33	15	7.54	4.64	2.90
8	5.42	4.76	202	60	157	188	95	30	15	7.35	4.52	2.80
9	5.28	4.28	174	52	172	171	85	29	14	7.16	4.52	2.72
10	4.76	4.04	148	41	202	158	85	28	14	6.97	4.76	2.48
11	4.16	4.64	128	36	172	145	74	23	14	6.26	6.78	2.40
12	3.70	4.76	95	41	210	106	71	27	14	6.12	8.49	2.32
13	3.30	5.00	85	37	220	188	65	27	14	6.26	8.87	3.70
14	3.60	12	77	30	223	178	60	26	14	6.40	7.54	6.78
15	7.35	16	68	27	198	166	54	25	14	6.40	6.78	3.80
16	8.30	18	73	24	198	171	50	24	14	6.26	5.98	3.50
17	7.16	21	95	24	198	154	46	23	14	6.12	5.70	3.80
18	6.26	23	100	25	166	169	42	22	13	6.12	5.28	3.40
19	5.56	20	87	24	212	210	41	22	13	5.70	5.00	2.90
20	5.00	18	76	22	205	190	40	22	12	5.28	4.80	2.64
21	4.64	17	48	20	194	166	36	21	12	5.28	4.64	2.56
22	4.04	17	46	20	169	152	34	20	11	5.14	4.40	2.32
23	4.52	17	72	47	159	142	34	20	11	5.28	4.16	2.24
24	4.64	15	90	76	141	132	33	19	10	5.28	4.64	2.16
25	3.92	16	50	77	152	132	32	19	10	5.14	4.16	2.08
26	4.88	16	28	44	161	129	32	18	10	5.30	4.40	1.90
27	11	17	33	29	142	130	30	17	9.82	4.88	4.16	1.80
28	15	11	33	29	126	190	31	17	9.65	5.00	3.80	1.65
29	13	17	30	37	142	180	36	17	9.44	5.00	3.70	1.50
30	10	20	31	43	212	177	46	17	9.06	4.88		1.80
31		18		40	223		52		8.87	5.00		1.65
Total	164.51	371.50	1,940	1,351	4,994	5,310	2,218	883	396.82	194.10	148.00	88.40
Mean	5.48	12.0	64.7	42.9	161	177	71.5	29.4	12.8	6.26	5.10	2.85
Max.	15	23	202	77	223	228	190	87	16	8.49	8.87	6.78
Min.	2.40	4.04	13	20	47	129	30	17	8.87	4.88	3.60	1.50
Runoff - mcm.	14.196	32.098	167.616	114.998	431.482	458.784	191.635	76.291	34.285	16.770	12.787	7.638

WATER YEAR 1955 : Max. 228 Min. 1.50 Mean 49.3 Annual Runoff 1,558.581 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 2	12.00	48.98	228				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
YOM RIVER BASIN

Mae Yom River at Talat Thani, Sukhothai (Y.4)

Location: Lat 17°- 00' - 18" N, Long 99°- 49' - 31" E, on left bank infront of house of Governor, Amphoe Muang, Sukhothai.

Drainage Area: 17,731 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +45.00 m. (M.S.L.)

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

Location: About 22 meters from upper gage.
Elevation: +47.579 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 - 60, 1962 to date.

Rating Operation:

Period of Rating: 1954 - 56, 1967 - Cont'd.
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1967 - Cont'd.

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

Overbank Flow Conditions: Overbank flow was observed at elev. +48.99 m. (M.S.L.) but not included for flow computation.

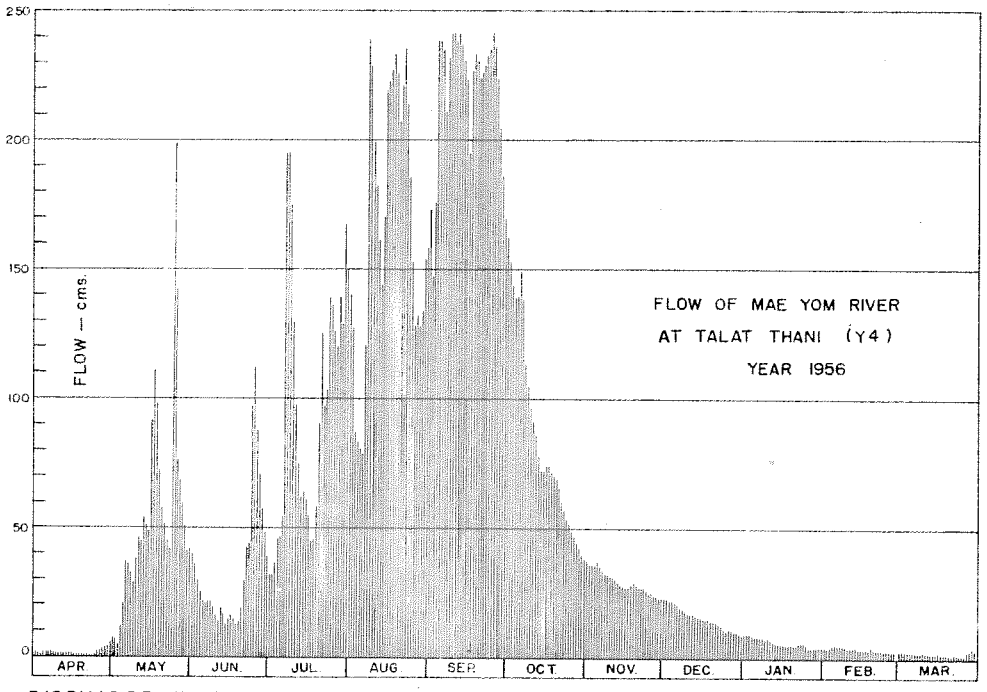
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.17	45.51	46.76	46.58	48.40	48.64	48.55	46.67	46.18	45.69	45.44	45.25
2	.16	.49	.63	.64	.25	.48	.44	.62	.17	.68	.43	.24
3	.16	.47	.50	.73	47.69	.85	.35	.61	.15	.67	.43	.23
4	.16	.93	.36	.97	.69	.97	.34	.57	.16	.66	.43	.23
5	.15	46.30	.28	.97	.58	.97	.36	.58	.14	.65	.42	.23
6	45.16	46.76	46.28	47.18	47.56	48.96	48.45	46.53	46.12	45.65	45.42	45.21
7	.19	.76	.30	48.79	48.23	.87	.25	.50	.11	.64	.41	.20
8	.16	.72	.29	.82	.94	.97	.03	.45	.09	.63	.39	.18
9	.14	.59	.19	.61	.92	.99	47.97	.45	.08	.61	.38	.18
10	.15	.86	.09	.23	.81	.99	.79	.45	.07	.60	.37	.21
11	45.14	46.84	46.01	47.90	48.70	48.99	47.75	46.43	46.05	45.60	45.37	45.18
12	.13	.89	.18	.54	.54	49.00	.67	.42	.04	.58	.37	.16
13	.12	47.13	.10	.36	.42	48.99	.58	.38	.02	.57	.37	.14
14	.12	.06	45.98	.43	.58	.97	.52	.34	.01	.57	.36	.14
15	.11	.01	46.02	.28	.94	.94	.45	.33	.99	.55	.36	.13
16	45.10	47.84	46.06	47.05	48.96	48.82	47.45	46.31	45.98	45.54	45.35	45.12
17	.09	48.25	.02	46.90	.97	.96	.45	.31	.96	.53	.36	.11
18	.09	.02	45.98	.97	.99	.98	.41	.33	.94	.53	.37	.10
19	.10	47.64	46.01	47.12	.96	.98	.41	.37	.92	.52	.37	.11
20	.11	.28	.18	.64	.89	.96	.41	.35	.90	.51	.34	.09
21	45.16	47.11	46.38	48.24	48.94	48.97	47.33	46.32	45.88	45.51	45.33	45.09
22	.14	.02	.81	.00	.96	.98	.23	.30	.87	.50	.32	.11
23	.14	.89	.91	47.98	.88	.99	.14	.29	.85	.49	.31	.10
24	.22	.36	47.80	48.37	.72	49.00	.07	.27	.84	.49	.29	.09
25	.31	.96	48.19	.36	.50	.02	.01	.26	.81	.48	.28	.09
26	45.30	47.65	47.92	48.29	48.33	48.99	46.92	46.24	45.79	45.47	45.27	45.17
27	.37	.48	.62	.22	.38	.91	.86	.23	.77	.46	.26	.23
28	.44	.28	.32	.43	.34	.80	.80	.22	.76	.45	.25	.25
29	.40	.05	.03	.35	.42	.70	.76	.21	.74	.45		.38
30	.50	46.86	46.76	.60	.52	.60	.73	.20	.72	.45		.29
31		.82		.41	.59		.70		.70	.45		.20
Mean	45.19	46.96	46.56	47.73	48.54	48.91	47.55	46.38	45.99	45.55	45.36	45.17
Max.	45.50	47.96	48.19	48.82	48.94	49.02	48.55	46.67	46.18	45.69	45.44	45.38
Min.	45.09	45.47	45.98	46.52	47.56	48.48	46.70	46.20	45.70	45.45	45.25	45.09

WATER YEAR 1956 : Max. 49.02 m. Min. 45.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.30	7.20	40	32	140	173	161	37	23	9.00	4.00	2.50
2	1.10	7.00	35	32	122	147	149	36	23	9.00	4.00	2.40
3	1.00	4.70	30	36	84	207	141	36	22	9.00	4.20	2.30
4	1.70	14	25	46	83	238	139	35	22	8.00	5.00	2.30
5	1.70	23	22	47	79	238	140	37	21	8.00	5.00	2.30
6	1.90	37	21	57	79	235	149	35	20	8.00	5.00	2.10
7	2.10	36	22	195	128	211	128	33	19	8.00	5.00	2.00
8	1.70	33	22	195	238	235	108	32	19	8.00	4.00	1.80
9	1.40	29	19	160	221	241	103	32	18	7.00	4.00	1.80
10	1.40	39	16	122	197	241	92	31	17	7.80	3.90	2.10
11	1.30	46	14	93	179	238	91	31	17	7.00	4.00	1.90
12	1.20	45	19	74	157	241	85	30	17	6.20	4.00	1.60
13	1.00	54	16	62	144	235	76	29	16	5.80	4.00	1.40
14	1.10	51	13	64	157	230	72	28	16	5.60	3.40	1.40
15	1.00	49	15	61	219	221	72	27	15	5.20	3.00	1.30
16	0.95	92	16	50	224	195	74	27	15	5.20	3.00	1.20
17	0.90	111	14	45	227	227	74	27	15	5.00	3.00	1.10
18	0.90	96	13	46	233	233	71	28	15	5.00	3.00	1.00
19	0.95	74	14	54	224	230	70	29	14	5.00	4.20	1.10
20	0.85	56	19	88	207	224	69	28	14	4.90	3.00	0.95
21	0.90	49	27	125	219	227	65	27	14	5.00	3.00	0.95
22	0.85	45	43	97	230	230	59	27	13	6.00	3.00	1.10
23	0.90	42	44	106	207	233	55	27	12	6.00	3.00	1.00
24	1.70	123	86	139	178	235	53	26	11	6.00	2.90	0.95
25	2.70	199	112	136	146	241	51	25	10	5.00	2.80	0.95
26	2.70	76	92	128	128	230	48	25	11	4.00	2.70	1.70
27	3.50	67	75	120	132	216	46	24	11	4.00	2.60	2.30
28	4.50	57	60	139	128	195	43	24	10	4.00	2.50	2.50
29	4.30	49	49	129	135	179	42	23	10	4.10		3.80
30	6.20	41	38	167	153	165	39	23	9.00	4.10		2.90
31		42		141	158		38		8.80	4.10		2.00
Total	53.17	1,693.90	1,031	2,986	5,156	6,591	2,603	879	477.80	189.00	101.20	54.60
Mean	1.77	54.6	34.4	96.3	166	220	84.0	28.3	15.4	6.10	3.61	1.76
Max.	6.20	199	112	195	238	241	161	37	23	9.00	5.00	3.80
Min.	0.85	4.70	13	32	79	147	38	23	8.80	4.00	2.50	0.95
Runoff — mcm.	4.594	146.353	89.078	257.990	445.478	569.462	224.899	75.946	41.282	16.330	8.744	4.717

WATER YEAR 1956 : Max. 241 Min. 0.85 Mean 59.6 Annual Runoff 1,884.874 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	06.00	49.02	241				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 Si Satchanalai - Sawankhalok highway, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +58.80 m. (M.S.L.). Prior to Sept. 1, 1954 used +59.00 m. (M.S.L.)

Bench Mark:

Location: On left bank near camp of gage observer.
Elevation: +69.132 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.

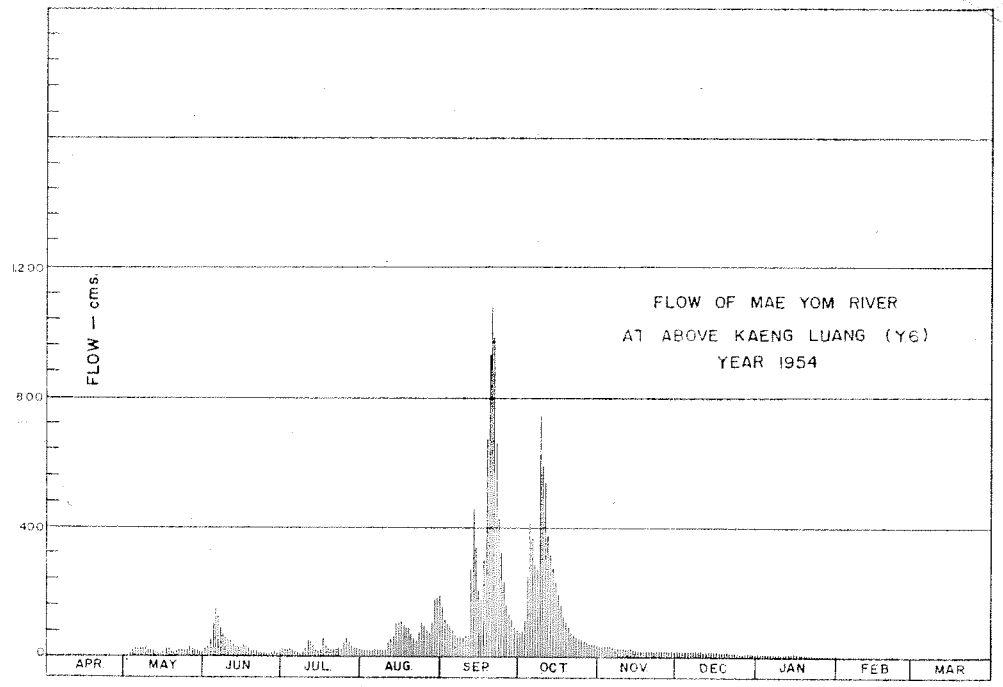
General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1954. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	58.97	58.93	59.21	59.04	59.18	60.62	60.00	59.48	59.22	59.06	58.96	58.90
2	.94	.98	.32	.20	.19	.19	59.99	.46	.22	.05	.95	.90
3	.92	59.03	.39	.29	.21	.02	60.02	.47	.22	.05	.95	.89
4	.90	.27	60.04	.24	.19	.00	.92	.45	.21	.04	.95	.89
5	.89	.53	.63	.19	.15	59.88	62.46	.46	.21	.04	.95	.88
6	58.88	59.38	60.36	59.13	59.22	59.81	62.14	59.42	59.21	59.03	58.94	58.88
7	.90	.39	.11	.09	.22	.73	61.52	.41	.21	.03	.94	.88
8	.88	.46	59.90	.07	.19	.78	61.51	.40	.22	.02	.94	.87
9	.86	.43	.75	.08	.22	.68	64.79	.38	.23	.02	.93	.87
10	.85	.34	.65	.18	.23	.76	63.83	.87	.26	.01	.93	.87
11	58.85	59.35	59.55	59.52	59.38	59.74	63.44	59.35	59.26	59.01	58.93	58.86
12	.84	.28	.45	.59	.52	61.78	62.21	.37	.23	.00	.92	.86
13	.83	.19	.39	.35	.63	62.70	61.87	.35	.20	.00	.92	.86
14	.82	.15	.34	.24	.98	61.56	.61	.33	.19	.00	.92	.85
15	.82	.14	.32	.16	60.15	60.93	.18	.31	.19	.00	.91	.85
16	58.81	59.18	59.44	59.23	60.15	60.63	60.89	59.30	59.18	59.00	58.91	58.85
17	.81	.35	.36	.65	.10	.97	.73	.30	.16	.00	.91	.84
18	.80	.36	.28	.63	.01	62.48	.56	.28	.15	58.99	.90	.84
19	.79	.19	.20	.34	59.83	65.08	.39	.29	.15	.99	.90	.84
20	.78	.11	.14	.20	.75	.69	.22	.28	.14	.99	.90	.83
21	58.77	59.11	59.11	59.20	59.68	65.25	60.10	59.28	59.13	58.99	58.90	58.83
22	.80	.23	.08	.25	.60	63.35	59.99	.27	.13	.98	.92	.83
23	.81	.23	.05	.27	.78	62.11	.90	.27	.12	.98	.92	.82
24	.79	.16	.03	.20	60.10	61.51	.80	.28	.11	.98	.92	.82
25	.78	.19	.02	.55	.08	.07	.73	.26	.10	.98	.92	.81
26	58.78	59.26	59.02	59.67	59.94	60.79	59.67	59.25	59.10	58.98	58.91	58.81
27	.88	.24	.06	.42	.81	.54	.63	.25	.09	.97	.91	.80
28	.95	.21	.09	.29	60.07	.43	.60	.24	.09	.97	.91	.80
29	.92	.27	.05	.26	.86	.18	.57	.24	.09	.97		.80
30	.90	.19	.04	.26	.83	.06	.54	.23	.08	.96		.81
31		.13		.21	.97		.50		.07	.96		.82
Mean	58.85	59.23	59.41	59.29	59.75	61.21	60.88	59.35	59.17	59.00	58.92	58.85
Max.	58.97	59.53	60.63	59.67	60.97	65.69	64.79	59.87	59.26	59.06	58.96	58.90
Min.	58.77	58.93	59.02	59.04	59.15	59.68	59.50	59.23	59.07	58.96	58.90	58.80

WATER YEAR 1954 : Max. 65.69 m. Min. 58.77 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.72	5.72	23	30	22	168	80	37	20	11	5.72	4.62
2	5.72	6.54	32	25	22	116	81	36	20	11	4.96	4.62
3	5.30	7.40	31	26	23	97	86	37	20	11	4.96	3.94
4	5.30	19	90	25	22	93	190	35	19	10	4.96	3.94
5	5.30	30	151	23	18	80	412	35	19	10	4.96	3.60
6	5.72	24	115	20	25	72	861	32	19	10	4.96	3.60
7	4.62	25	88	17	21	62	271	31	19	10	4.96	3.60
8	4.92	28	66	14	21	67	269	30	20	9.50	4.96	3.60
9	4.28	27	61	15	23	59	759	28	21	9.50	4.96	3.60
10	4.62	22	49	22	35	66	601	27	22	9.08	4.96	3.60
11	3.94	24	49	49	32	66	536	25	22	9.08	5.30	3.26
12	3.60	21	38	54	59	315	549	26	21	8.66	4.96	3.26
13	3.26	15	35	55	60	460	510	25	19	8.66	5.30	3.26
14	3.60	12	33	25	102	286	281	24	18	8.66	5.72	2.92
15	3.94	12	30	21	108	202	228	22	18	8.66	5.72	2.92
16	3.94	16	39	24	105	166	197	21	18	8.66	6.14	2.92
17	3.94	25	37	62	97	212	150	21	17	8.66	6.14	2.58
18	3.26	26	27	56	92	439	127	20	16	8.24	5.72	2.24
19	3.60	18	23	35	74	352	105	20	16	8.24	5.72	2.24
20	3.26	14	19	25	64	1,080	86	19	16	8.24	5.72	1.90
21	2.72	17	18	24	60	979	71	19	15	8.24	5.30	1.90
22	2.24	25	15	27	51	605	66	19	15	7.82	6.14	1.90
23	2.92	25	15	29	67	386	61	19	14	7.82	6.14	2.40
24	2.92	20	13	23	105	288	57	19	14	7.82	5.72	2.40
25	2.20	19	12	42	97	221	55	19	13	7.82	5.72	2.20
26	2.00	28	12	58	87	140	49	19	13	7.82	5.30	2.20
27	1.90	25	14	58	71	124	46	19	13	7.40	5.30	2.00
28	5.72	21	16	37	100	114	44	19	13	7.40	4.96	2.00
29	5.30	22	12	25	175	92	42	19	13	7.40		2.00
30	5.30	19	14	28	184	83	41	19	12	6.98		2.20
31		14		24	189		38		12	6.98		2.40
Total	121.06	612.66	1,177	966	2,200	8,099	6,027	741	527	270.34	155.38	90
Mean	4.00	19.8	39.2	31.2	71.0	270	194	24.7	17.0	8.71	5.39	2.90
Max.	5.72	30	151	62	189	1,080	739	37	22	11	6.14	4.62
Min.	1.90	5.72	12	14	18	59	38	19	12	6.98	4.96	1.90
Runoff - mcm.	10.459	52.934	101.779	83.462	190.080	699.754	520.733	64.022	45.553	23.357	13.079	7.776

WATER YEAR 1954 : Max. 1,080 Min. 1.90 Mean 57.5 Annual Runoff 1,812.867 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 20	12.00	65.75	1,092				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
YOM RIVER BASIN

Mae Yom River at Kaeng Luang, Sukhothai (Y.6)

Location: Lat 17°- 26' - 05" N, Long 99°- 47' - 32" E, on left bank 150 meters upstream of Kaeng Luang 300 meters from Km.8 on Si Satchanalai - Sawankalok highway, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 58.80 m. (M.S.L.)

Bench Mark:
Location: On left bank near camp of gage observer.
Elevation: +69.132 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.

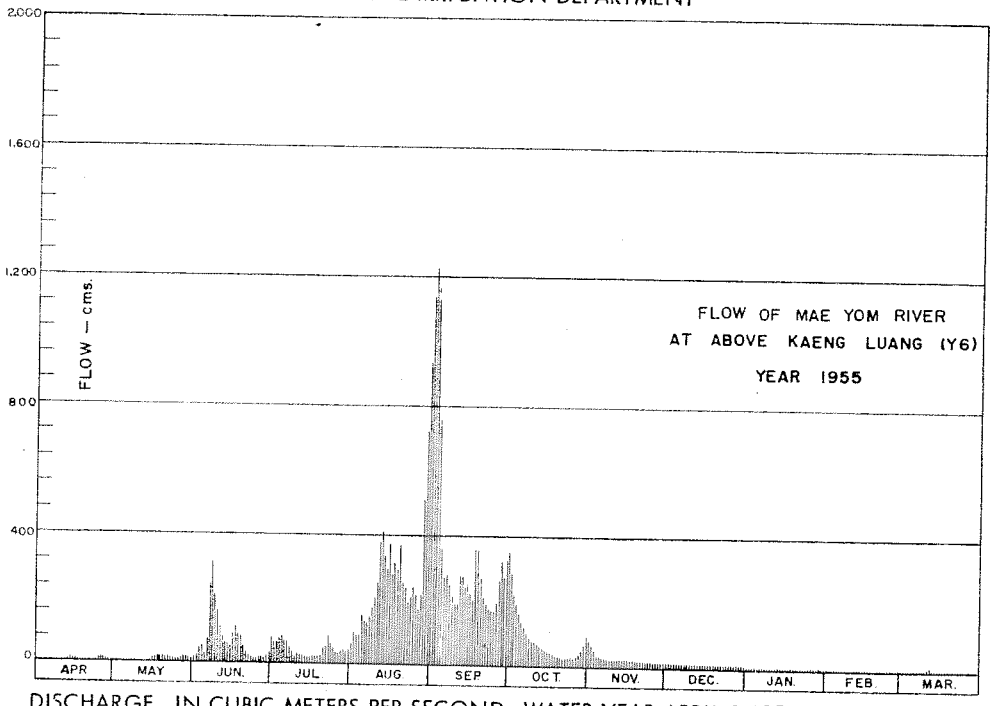
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.77	59.93	60.10	60.89	60.75	65.78	62.76	61.04	60.13	59.93	59.82	59.76
2	.77	.96	.30	.75	61.12	.46	.59	60.81	.13	.92	.82	.74
3	.77	.93	.60	.71	60.97	.24	61.93	.67	.13	.92	.82	.74
4	.77	.93	.69	.93	.98	63.83	.58	.56	.12	.91	.81	.73
5	.79	.91	.34	.98	61.60	62.81	.40	.52	.11	.90	.81	.73
6	59.89	59.89	60.24	60.79	61.55	62.48	61.35	60.47	60.11	59.90	59.80	59.72
7	.87	.88	62.04	.84	.56	.53	.21	.42	.10	.90	.79	.72
8	.85	.86	.69	.73	.71	.23	.09	.39	.10	.89	.79	.71
9	.83	.84	61.99	.57	62.46	.06	.00	.36	.09	.89	.78	.70
10	.81	.83	.61	.47	.24	61.90	60.98	.33	.09	.89	.83	.70
11	59.80	59.81	61.23	60.51	62.33	61.90	60.96	60.35	60.08	59.89	59.97	59.69
12	.80	.83	.02	.44	63.03	62.44	.89	.32	.07	.88	.93	60.03
13	.93	.83	60.88	.34	.12	.41	.83	.31	.07	.88	.86	59.85
14	60.01	.83	.79	.27	62.84	.20	.80	.29	.06	.88	.86	.79
15	59.96	.97	.62	.22	.31	.25	.73	.28	.05	.87	.84	.78
16	59.91	60.24	60.89	60.24	62.82	62.05	60.67	60.25	60.04	59.87	59.83	59.75
17	.88	.15	61.30	.25	.31	.02	.62	.25	.03	.87	.82	.73
18	.85	.29	.09	.21	.56	.84	.58	.25	.02	.87	.81	.73
19	.84	.33	60.98	.18	.26	.80	.55	.24	.01	.87	.79	.73
20	.83	.30	.62	.13	.84	.35	.52	.22	.02	.86	.79	.73
21	59.83	60.24	60.45	60.12	62.24	62.03	60.49	60.21	60.01	59.86	59.78	59.72
22	.84	.21	.33	.54	.12	61.87	.46	.20	.00	.85	.78	.71
23	.82	.18	.26	61.05	61.82	.71	.47	.19	.00	.85	.78	.70
24	.83	.10	.19	60.79	.86	.68	.42	.18	59.99	.85	.78	.70
25	.96	.07	.13	.62	62.06	.63	.42	.17	.99	.84	.77	.69
26	60.24	60.04	60.25	60.51	61.96	61.68	60.38	60.16	59.98	59.84	59.77	59.69
27	.04	.03	.27*	.46	.73	.88	.39	.16	.97	.84	.76	.68
28	.06	.32	.13	.68	.61	62.58	.49	.15	.96	.83	.76	.67
29	59.99	.23	.20	.69	62.74	.36	.65	.14	.95	.83	.75	.66
30	.93	.15	.37	.57	63.95	.60	.70	.14	.94	.83		.65
31		.09		.59	64.62		61.14		.94	.83		.65
Mean	59.88	60.04	60.75	60.55	62.20	62.57	60.93	60.33	60.04	59.87	59.81	59.73
Max.	60.24	60.33	62.69	61.05	64.62	65.78	62.76	61.04	60.13	59.93	59.97	60.03
Min.	59.77	59.81	60.10	60.12	60.75	61.63	60.38	60.14	59.94	59.83	59.75	59.65

WATER YEAR 1955 : Max. 65.78 m. Min. 59.65 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.00	7.00	18	80	58	1,104	350	86	15	8.00	5.00	4.80
2	4.00	8.00	26	64	99	1,226	287	62	15	7.50	5.00	4.00
3	4.00	7.00	47	60	88	1,126	219	48	15	7.50	5.00	4.00
4	4.00	7.00	54	80	85	630	182	38	14	7.00	5.00	4.00
5	5.00	6.00	26	84	151	357	145	35	14	7.00	5.00	4.00
6	7.00	6.00	20	64	133	271	133	31	14	7.00	4.00	4.00
7	6.00	6.00	204	67	122	278	112	26	14	7.00	4.00	4.00
8	6.00	4.00	317	54	132	242	94	24	14	6.50	4.00	3.00
9	6.00	4.00	204	38	231	214	81	22	13	6.50	4.00	3.50
10	6.00	3.00	157	29	202	188	76	22	13	6.50	5.50	3.40
11	5.00	3.00	106	32	225	188	73	24	13	6.50	9.00	3.00
12	5.00	3.00	81	28	371	276	65	24	13	6.00	7.50	12
13	9.00	3.00	63	24	406	272	58	24	12	6.00	6.00	5.00
14	11	4.00	59	22	359	239	54	24	12	6.00	6.00	4.00
15	9.00	7.00	46	20	270	249	48	23	12	6.00	6.00	3.00
16	8.00	16	68	22	370	218	44	22	11	6.00	5.50	3.00
17	7.00	15	114	24	267	200	40	21	11	6.00	5.00	3.00
18	6.00	18	92	24	313	357	36	21	11	6.00	5.00	3.00
19	6.00	20	81	24	234	350	33	21	10	6.00	4.40	3.00
20	6.00	19	48	21	368	267	30	20	11	6.00	4.40	3.00
21	6.00	17	33	49	254	214	26	19	10	6.00	4.00	3.00
22	6.00	16	27	43	232	190	25	18	10	6.00	4.00	3.00
23	6.00	15	22	88	188	172	26	18	10	6.00	4.00	3.00
24	6.00	12	19	62	199	170	25	17	9.50	6.00	4.00	3.00
25	9.00	10	17	46	236	166	26	17	9.50	6.00	4.80	3.00
26	20	10	22	36	216	177	25	16	9.00	6.00	4.60	2.00
27	12	10	23	31	177	204	26	16	9.00	6.00	3.50	2.00
28	12	21	17	41	159	320	32	16	9.00	5.00	3.50	2.00
29	9.00	17	25	46	353	269	44	15	9.00	5.00	3.50	2.00
30	8.00	14	35	39	678	302	50	15	9.00	5.00		1.40
31		13		42	891		95		9.00	5.00		1.40
Total	218	321	2,071	1,384	8,076	10,436	2,560	785	360	193	141.20	106.50
Mean	7.27	10.3	69.0	44.6	260	348	82.6	26.2	11.6	6.23	4.86	3.45
Max.	20	21	317	88	891	1,226	350	86	15	8.00	9.00	12
Min.	4.00	3.00	17	21	58	166	25	15	9.00	5.00	3.50	1.40
Runoff - MCM.	18.835	27.734	178.934	119.577	697.766	901.670	221.184	67.824	31.104	16.675	12.182	9.245

WATER YEAR 1955 : Max. 1,226 Min. 1.40 Mean 73.0 Annual Runoff 2,302.707 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 2	06.00	65.54	1,264				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 of Kaeng Luang, 300 meters from Km.8 on Si Satchanalai - Sawankhalok Highway, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,658 sq.km.

Type of Gage: Staff gage.

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 camp of gage observer.
Elevation: +69.132 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.

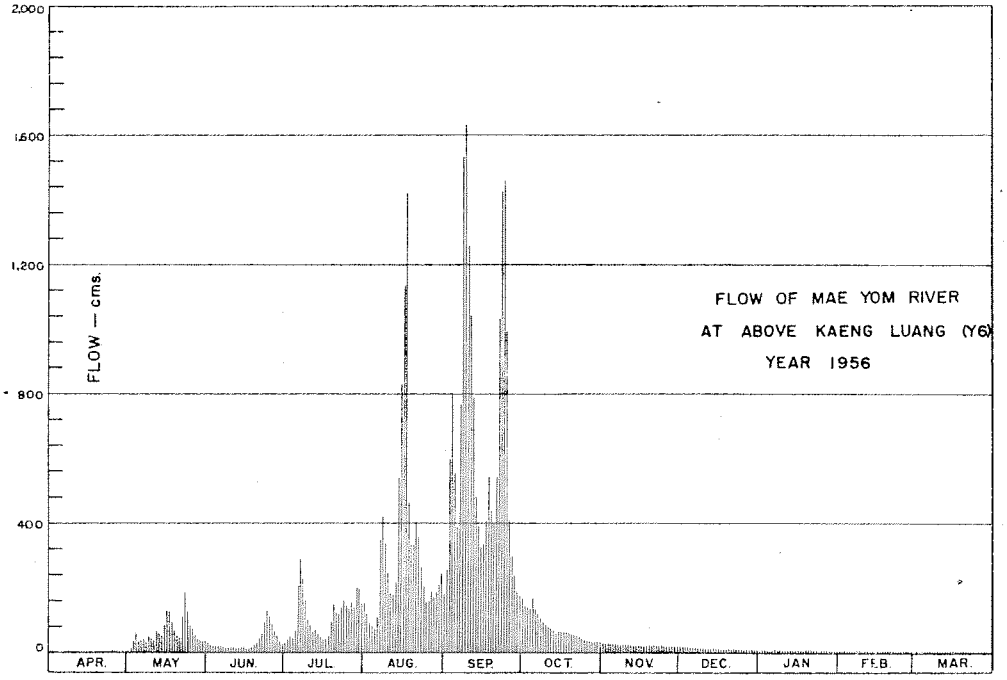
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 5,500 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.65	59.86	60.37	60.48	61.67	61.86	61.74	60.47	60.20	59.93	59.82	59.75
2	.65	.87	.30	.54	.37	.95	.61	.44	.19	.93	.82	.72
3	.65	60.37	.22	.71	.15	63.56	.61	.43	.20	.92	.82	.72
4	.64	.85	.19	.64	.07	64.57	.56	.41	.19	.92	.82	.72
5	.63	.54	.16	.77	.02	63.89	.82	.39	.17	.91	.81	.71
6	59.63	60.46	60.24	61.79	61.32	62.85	61.53	60.37	60.17	59.91	59.81	59.71
7	.64	.54	.21	62.55	62.80	.73	.41	.35	.16	.90	.80	.71
8	.66	.39	.11	.20	63.19	66.45	.37	.35	.15	.90	.80	.71
9	.65	.65	.10	61.66	62.59	.65	.21	.36	.14	.89	.80	.71
10	.63	.53	.12	.33	.30	65.57	.13	.34	.13	.89	.79	.70
11	59.62	60.47	60.21	61.06	62.04	65.00	61.09	60.35	60.12	59.88	59.78	59.70
12	.61	.81	.11	60.87	61.82	63.98	.02	.33	.11	.88	.78	.69
13	.61	.69	.06	.99	.91	.15	60.97	.30	.10	.88	.78	.69
14	.60	.63	.12	.90	62.28	.03	.90	.30	.09	.87	.78	.69
15	.60	61.06	.14	.72	64.68	62.62	.92	.29	.08	.87	.78	.69
16	59.59	61.47	60.11	60.59	65.55	62.75	60.92	60.29	60.07	59.87	59.78	59.69
17	.59	.46	.07	.67	66.18	63.10	.91	.30	.06	.87	.79	.70
18	.63	.14	.11	.72	63.59	.72	.91	.31	.05	.86	.78	.70
19	.63	60.83	.29	.96	62.76	.15	.89	.33	.04	.86	.77	.70
20	.62	.70	.39	61.64	.63	.09	.84	.31	.03	.85	.77	.70
21	59.64	60.66	60.63	61.41	63.11	63.44	60.78	60.30	60.02	59.85	59.76	59.69
22	.72	61.03	.75	.35	62.92	64.97	.77	.29	.01	.85	.76	.69
23	.78	.90	61.24	.62	.38	66.15	.67	.28	.00	.85	.75	.69
24	.75	.36	.51	.71	.01	.22	.62	.28	.00	.84	.74	.73
25	.75	.10	.38	.62	61.69	63.57	.58	.26	59.99	.84	.74	.77
26	59.91	60.98	61.14	61.52	61.60	62.85	60.56	60.25	59.98	59.84	59.74	59.75
27	.81	.77	60.93	.69	.90	.47	.55	.23	.97	.83	.74	.74
28	.85	.65	.68	.63	.78	.19	.52	.22	.96	.83	.73	.74
29	.90	.50	.51	62.00	.90	61.98	.52	.21	.95	.83		.73
30	.88	.49	.40	61.91	62.04	.82	.51	.20	.94	.82		.72
31		.48		.65	.28		.50		.94	.82		.71
Mean	59.68	60.75	60.43	61.29	62.44	63.64	61.01	60.31	60.06	59.87	59.78	59.71
Max.	59.91	61.90	61.51	62.55	66.18	66.65	61.82	60.47	60.20	59.93	59.82	59.77
Min.	59.59	59.86	60.06	60.48	61.02	61.82	60.50	60.20	59.94	59.82	59.73	59.69

WATER YEAR 1956 : Max. 66.65 m. Min. 59.59 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	6.00	26	33	152	179	162	32	18	8.00	5.00	3.00
2	1.00	7.00	23	36	112	192	143	30	18	8.00	5.00	2.00
3	1.00	28	19	48	88	502	143	30	18	8.00	5.00	2.00
4	1.00	62	18	45	79	794	137	29	18	8.00	5.00	2.00
5	1.00	34	16	53	74	585	173	27	17	7.00	4.00	1.00
6	1.00	35	20	169	106	350	133	26	17	7.00	4.00	2.00
7	1.00	41	18	294	341	328	117	25	16	7.00	4.00	2.00
8	2.00	32	14	232	418	1,520	112	25	16	7.00	4.00	2.00
9	1.00	50	14	150	301	1,630	94	26	16	7.00	4.00	2.00
10	1.00	42	15	108	249	1,150	86	25	15	7.00	4.00	1.00
11	1.00	39	18	78	206	955	81	25	15	6.00	4.00	1.00
12	1.00	66	14	61	173	610	74	24	14	6.00	4.00	1.00
13	1.00	57	12	71	186	410	69	23	14	6.00	4.00	1.00
14	1.00	49	15	63	246	386	63	23	14	6.00	4.00	1.00
15	1.00	87	16	49	829	307	65	22	13	6.00	4.00	1.00
16	1.00	133	14	39	1,150	331	65	22	13	6.00	4.00	2.00
17	1.00	130	13	45	1,420	400	64	23	12	6.00	4.00	2.00
18	1.00	91	14	49	510	541	64	23	12	6.00	4.00	2.00
19	1.00	61	22	68	333	410	62	24	12	6.00	3.00	2.00
20	1.00	50	27	148	307	398	58	23	11	5.00	3.00	2.00
21	1.00	47	42	117	402	475	53	23	11	5.00	3.00	2.00
22	2.00	80	51	110	364	942	53	22	10	5.00	3.00	2.00
23	3.00	192	97	145	263	1,410	45	22	10	5.00	3.00	2.00
24	3.00	117	130	157	262	1,460	41	22	10	5.00	3.00	3.00
25	3.00	87	114	145	155	509	39	21	10	5.00	3.00	3.00
26	7.00	76	87	131	142	350	38	20	9.00	5.00	3.00	3.00
27	4.00	57	66	155	185	280	37	19	9.00	5.00	3.00	3.00
28	5.00	46	46	146	167	230	35	19	9.00	5.00	3.00	3.00
29	7.00	38	35	200	185	197	35	18	8.00	5.00		3.00
30	6.00	38	28	186	206	173	35	18	8.00	5.00		2.00
31		38		149	246		34		8.00	5.00		2.00
Total	62	1,916	1,044	3,478	9,797	18,004	2,410	711	401	188	106	62
Mean	2.07	61.8	34.8	112	316	600	77.7	23.7	12.9	6.06	3.79	2.00
Max.	7.00	192	130	294	1,420	1,630	173	32	18	8.00	5.00	3.00
Min.	1.00	6.00	12	33	74	173	34	18	8.00	5.00	3.00	1.00
Runoff - mcm.	5.357	165.542	90.202	300.499	846.461	1,555.546	208.224	61.430	34.646	16.246	9.158	5.356

WATER YEAR 1956 : Max. 1,630 Min. 1.00 Mean 104 Annual Runoff 3,298.666 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 8	21.00	67.10	1,880				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
YOM RIVER BASIN

Mae Yom River at Ban Nun, Phrae (Y.11)

Location: Lat 18°- 30' - 23" N, Long 100°- 09' - 32" E, on left bank at Ban Wang Din, Tambon Ban Nun, 4.5 kilometers west of country road Amphoe Ngao - Amphoe Song, Amphoe Song, Phrae.

Drainage Area: 5,542 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +74.00 m. (M.S.L.), prior to Sept. 1, 1954 used +170.00 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.

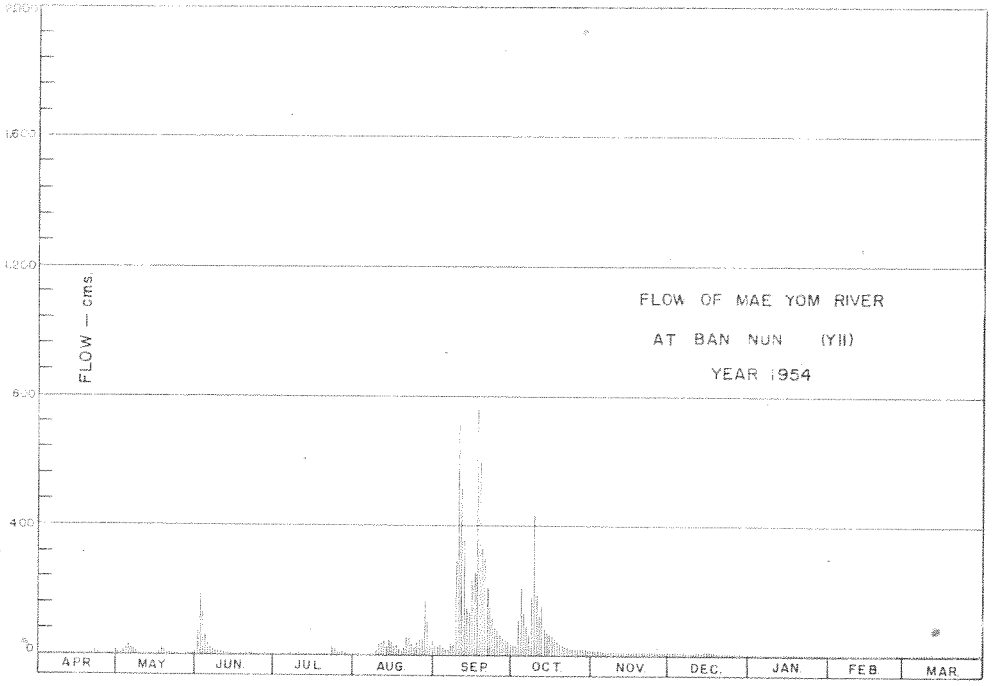
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955 - 56. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.31	174.38	174.83	174.27	174.27	174.83	174.90	174.63	174.52	174.39	174.33	174.29
2	.20	.36	175.93	.27	.39	.77	.87	.62	.52	.39	.33	.29
3	.17	.57	.38	.23	.32	.85	175.31	.61	.51	.38	.33	.28
4	.16	.68	.05	.25	.31	.72	176.04	.61	.53	.38	.33	.28
5	.15	.83	174.87	.22	.32	.63	175.62	.62	.56	.38	.33	.27
6	174.15	174.67	174.80	174.21	174.28	174.62	175.36	174.60	174.61	174.37	174.33	174.27
7	.14	.63	.69	.20	.38	.86	.15	.60	.58	.37	.32	.27
8	.13	.54	.58	.19	.42	.83	.37	.59	.54	.37	.32	.27
9	.12	.43	.54	.29	.47	.68	177.06	.58	.52	.37	.32	.27
10	.12	.37	.49	.34	.86	177.80	176.87	.57	.52	.37	.32	.27
11	174.11	174.33	174.44	174.25	174.86	177.57	175.61	174.57	174.50	174.37	174.32	174.27
12	.11	.28	.39	.23	.94	176.15	.27	.56	.50	.37	.31	.27
13	.10	.26	.37	.19	.73	175.72	.57	.56	.50	.37	.31	.27
14	.10	.23	.35	.22	.97	.62	.20	.55	.49	.37	.31	.27
15	.09	.24	.32	.18	.93	176.15	.47	.55	.49	.37	.31	.27
16	174.09	174.22	174.31	174.24	174.78	176.04	175.13	174.56	174.48	174.36	174.31	174.27
17	.09	.26	.28	.22	.81	177.93	.03	.55	.48	.36	.30	.26
18	.08	.70	.26	.34	.64	.58	174.98	.55	.48	.36	.30	.26
19	.08	.56	.25	.26	.61	176.46	.90	.54	.48	.36	.30	.26
20	.07	.42	.24	.26	.71	.44	.87	.54	.45	.36	.29	.26
21	174.07	174.36	174.22	174.22	175.12	176.09	174.82	174.54	174.45	174.36	174.30	174.26
22	.46	.33	.20	175.45	.08	175.73	.78	.54	.45	.36	.30	.26
23	.26	.29	.18	174.78	174.90	.52	.75	.54	.43	.36	.31	.26
24	.19	.27	.18	.62	.75	.33	.72	.53	.42	.36	.31	.25
25	.24	.26	.18	.42	.94	.27	.71	.53	.42	.35	.31	.25
26	174.18	174.27	174.19	174.45	174.99	175.14	174.71	174.53	174.41	174.35	174.31	174.25
27	.17	.30	.20	.48	175.04	.10	.70	.53	.40	.35	.30	.25
28	.15	.50	.19	.38	.84	.04	.68	.52	.40	.35	.30	.25
29	.14	.35	.41	.36	.14	174.98	.67	.52	.40	.34		.30
30	.62	.33	.32	.31	174.75	.92	.65	.52	.39	.34		.47
31		.28		.28	.94		.64		.39	.34		.40
Mean	174.17	174.40	174.49	174.34	174.76	175.64	175.14	174.56	174.48	174.36	174.31	174.28
Max.	174.62	174.83	175.93	175.45	175.84	177.93	177.06	174.63	174.61	174.39	174.33	174.47
Min.	174.07	174.22	174.18	174.18	174.27	174.62	174.64	174.52	174.39	174.34	174.29	174.25

WATER YEAR 1954 : Max. 177.93 m. Min. 174.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.30	5.40	31	2.40	2.40	31	57	17	11	5.70	3.90	2.80
2	1.00	4.80	184	2.40	5.70	27	35	16	11	5.70	3.90	2.80
3	0.70	13	90	1.60	3.60	33	81	16	10	5.40	3.90	2.60
4	0.60	20	50	2.00	3.30	25	206	16	11	5.40	3.90	2.60
5	0.50	31	35	1.40	3.60	17	135	16	13	5.40	3.90	2.40
6	0.50	19	29	1.20	2.60	16	88	15	16	5.10	3.90	2.40
7	0.40	17	21	1.00	5.40	34	62	15	14	5.10	5.60	2.40
8	0.30	12	14	0.90	6.80	31	89	14	12	5.10	3.60	2.40
9	0.20	7.20	12	2.80	8.80	20	460	14	11	5.10	3.60	2.40
10	0.20	5.10	9.60	4.20	34	706	172	13	11	5.10	3.60	2.40
11	0.10	3.90	7.60	2.00	34	624	125	13	10	5.10	3.60	2.40
12	0.10	2.60	5.70	1.60	41	229	155	13	10	5.10	3.30	2.40
13	0.00	2.20	5.10	0.90	24	144	89	13	10	5.10	3.30	2.40
14	0.00	1.60	4.50	1.40	44	126	68	12	9.60	5.10	3.30	2.40
15	0.00	1.80	3.60	0.80	40	229	65	12	9.60	5.10	3.30	2.40
16	0.00	1.40	3.30	1.80	27	206	60	13	9.20	4.80	3.30	2.40
17	0.00	2.20	2.60	1.40	30	754	50	12	9.20	4.80	3.00	2.20
18	0.00	21	2.20	4.20	18	628	43	12	9.20	4.80	3.00	2.20
19	0.00	13	2.00	2.20	16	299	37	12	9.20	4.80	3.00	2.20
20	0.00	6.80	1.80	2.20	22	295	35	12	9.00	4.80	2.80	2.20
21	0.00	4.80	1.40	1.40	59	216	31	12	8.00	4.80	3.00	2.20
22	8.40	3.90	1.00	100	55	145	27	12	8.00	4.80	3.00	2.20
23	2.20	2.80	0.80	27	37	110	25	12	7.20	4.80	3.30	2.20
24	0.90	2.40	0.80	16	25	84	23	11	6.80	4.80	3.30	2.00
25	1.80	2.20	0.80	6.80	41	76	22	11	6.80	4.50	3.30	2.00
26	0.80	2.40	0.90	8.00	46	61	22	11	6.40	4.50	3.30	2.00
27	0.70	3.00	1.00	9.20	51	57	21	11	6.00	4.50	3.00	2.00
28	0.50	3.00	0.90	5.40	166	51	20	11	6.00	4.50	3.00	2.00
29	0.40	4.50	6.40	4.80	61	45	19	11	6.00	4.20		3.00
30	16	3.90	3.60	3.30	25	39	18	11	5.70	4.20		8.80
31		2.60		2.60	41		18		5.70	4.20		6.00
Total	39.60	226.50	551.60	222.90	979.20	5,356	2,336	389	286.60	152.40	96.90	82.80
Mean	1.32	7.31	17.7	7.19	31.6	178	75.3	13.0	9.24	4.92	3.39	2.67
Max.	16	31	184	100	166	754	460	17	16	6.70	5.90	8.80
Min.	0.00	1.40	0.80	0.80	2.40	16	18	11	5.70	4.20	2.80	2.00
Runoff - mcm.	3.421	19.570	45.930	19.258	84.603	462.758	201.830	33.610	24.762	13.167	8.199	7.154

WATER YEAR 1954 : Max. 754 Min. 0.00 Mean 29.3 Annual Runoff 924.264 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.10	18.00	180.10	1,766				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
YOM RIVER BASIN

Mae Yom River at Ban Nun, Phrae (Y.11)

Location: Lat 18° - 50' - 23" N, Long 100° - 09' - 32" E, on left bank at Ban Wang Din, Tambon Ban Nun, 4.5 kilometers west of country road Amphoe Ngao - Amphoe Song, Amphoe Song, Phrae.

Drainage Area: 5,542 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 74.00 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.

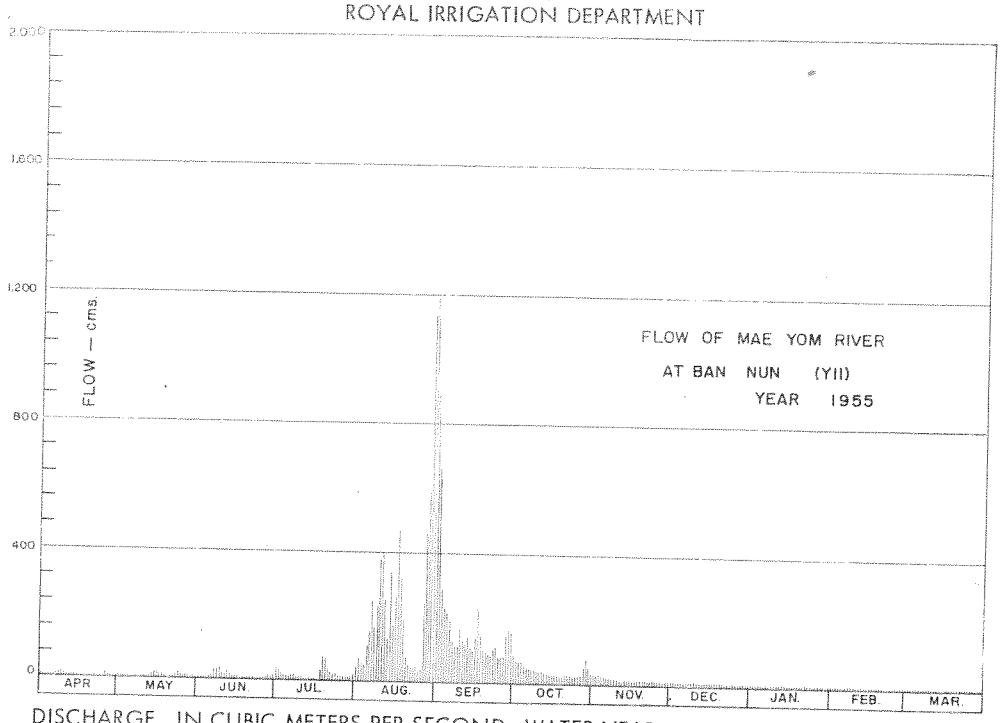
General Description: Records fair. Stage-discharge relation used is defined by discharge measurements made during 1955-56. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.36	174.39	174.35	174.92	174.94	178.22	175.39	174.75	174.53	174.39	174.33	174.28
2	.32	.38	.33	.81	175.27	177.13	.22	.77	.53	.39	.33	.28
3	.30	.37	.36	.71	.09	176.42	.21	.81	.53	.39	.33	.28
4	.30	.35	.38	.62	174.95	.12	.21	.78	.53	.39	.32	.28
5	.29	.33	.42	.54	175.33	.09	.07	.71	.53	.39	.32	.28
6	174.29	174.33	174.53	174.57	175.65	175.83	175.01	174.65	174.52	174.38	174.32	174.28
7	.40	.30	.81	.64	176.26	.65	174.99	.65	.52	.37	.32	.33
8	.56	.34	.83	.68	175.58	.52	.97	.65	.51	.37	.32	.34
9	.57	.32	.85	.56	.94	.53	.93	.63	.51	.37	.32	.28
10	.45	.31	.64	.49	176.73	.84	.91	.62	.51	.37	.32	.27
11	174.38	174.35	174.55	174.44	176.65	175.64	174.91	174.57	174.50	174.37	174.32	174.27
12	.35	.33	.77	.42	.26	.58	.87	.57	.50	.37	.32	.27
13	.33	.49	.59	.40	175.67	.70	.85	.57	.48	.37	.32	.27
14	.31	.58	.50	.38	176.62	.51	.83	.57	.47	.37	.32	.27
15	.30	.64	.46	.37	175.91	.44	.81	.57	.47	.37	.32	.27
16	174.29	174.64	174.49	174.37	176.26	175.61	174.77	174.57	174.47	174.37	174.32	174.27
17	.28	.50	.43	.36	177.08	176.16	.75	.57	.47	.37	.32	.26
18	.27	.58	.43	.37	176.54	175.72	.73	.57	.47	.37	.32	.26
19	.26	.43	.40	175.29	175.45	.43	.73	.56	.47	.37	.32	.24
20	.26	.41	.39	.18	.26	.40	.72	.56	.44	.35	.32	.24
21	174.26	174.39	174.38	174.85	175.08	175.35	174.76	174.56	174.42	174.35	174.32	174.24
22	.30	.38	.36	.75	174.99	.30	.75	.55	.41	.35	.32	.24
23	.30	.56	.35	.66	.97	.44	.75	.55	.41	.35	.32	.24
24	.28	.72	.32	.73	.85	.52	.73	.54	.41	.35	.32	.24
25	.28	.57	.34	.62	.77	.29	.73	.53	.41	.35	.32	.23
26	174.60	174.47	174.34	174.61	174.95	175.30	174.73	174.53	174.41	174.35	174.32	174.23
27	.45	.46	.46	.57	176.06	.28	.74	.53	.40	.34	.32	.22
28	.44	.42	.62	.53	177.03	.71	.98	.53	.39	.34	.30	.21
29	.43	.40	.55	.58	.48	.82	175.26	.53	.39	.33	.29	.20
30	.40	.38	.56	.55	178.78	.78	174.94	.53	.39	.33		.20
31		.36		.69	.99		.81		.39	.33		.20
Mean	174.35	174.43	174.49	174.62	175.99	175.78	174.90	174.60	174.46	174.36	174.32	174.26
Max.	174.60	174.72	174.85	175.29	178.99	178.22	175.39	174.81	174.53	174.39	174.33	174.34
Min.	174.26	174.30	174.32	174.36	174.77	175.28	174.72	174.53	174.39	174.33	174.29	174.20

WATER YEAR 1955 : Max. 178.99 m. Min. 174.20 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.80	5.70	4.50	39	41	866	92	25	11	5.70	3.90	2.60
2	3.60	5.40	3.90	30	76	481	70	27	11	5.70	3.90	2.60
3	3.00	5.10	4.80	22	56	290	69	30	11	5.70	3.90	2.60
4	3.00	4.50	5.40	16	42	223	69	27	11	5.70	3.60	2.60
5	2.80	3.90	6.80	12	84	216	54	22	11	5.70	3.60	2.60
6	2.80	3.90	11	13	131	164	48	18	11	5.40	3.60	2.60
7	6.00	3.00	30	18	253	131	46	18	11	5.10	3.60	3.90
8	13	4.20	31	20	120	110	44	18	10	5.10	3.60	4.20
9	13	3.60	33	13	186	112	40	17	10	5.10	3.60	2.60
10	8.00	3.30	18	9.60	368	165	38	16	10	5.10	3.60	2.40
11	5.40	4.50	12	7.60	400	130	38	13	10	5.10	3.60	2.40
12	4.50	3.90	27	6.80	253	120	35	13	10	5.10	3.60	2.40
13	3.90	9.60	14	6.00	135	140	33	13	9.20	5.10	3.60	2.40
14	3.30	14	10	5.40	339	109	31	13	8.80	5.10	3.60	2.40
15	3.00	18	8.40	5.10	180	99	30	13	8.80	5.10	3.60	2.40
16	2.80	18	9.60	5.10	253	125	27	13	8.80	5.10	3.60	2.40
17	2.60	10	7.20	4.80	466	231	25	13	8.80	5.10	3.60	2.20
18	2.40	14	7.20	5.10	319	144	24	13	8.80	5.10	3.60	2.20
19	2.20	7.20	6.00	79	100	97	24	13	8.80	5.10	3.60	1.80
20	2.20	5.40	5.70	66	75	95	23	13	7.60	4.50	3.60	1.80
21	2.20	5.70	5.40	33	55	86	26	13	6.80	4.50	3.60	1.80
22	3.00	5.40	4.80	25	46	80	25	12	6.40	4.50	3.60	1.80
23	3.00	13	4.50	19	54	99	25	12	6.40	4.50	3.60	1.80
24	2.60	23	4.60	24	33	110	24	12	6.40	4.50	3.60	1.80
25	2.60	15	4.20	16	27	79	24	11	6.40	4.50	3.60	1.60
26	15	8.80	4.20	16	42	80	24	11	6.40	4.50	3.60	1.60
27	8.00	8.40	8.40	13	210	78	24	11	6.00	4.20	3.60	1.40
28	7.60	6.80	16	11	451	142	45	11	5.70	4.20	3.00	1.20
29	7.20	6.00	12	14	595	162	75	11	5.70	3.90	2.80	1.00
30	6.00	5.40	15	12	1,130	154	41	11	5.70	3.90		1.00
31		4.80		21	1,195		30		5.70	3.90		1.00
Total	149.50	248.50	331.60	587.50	7,613	5,112	1,223	463	264.20	151.80	105.90	67.10
Mean	4.98	8.02	11.0	18.9	247	170	39.4	15.4	8.52	4.90	3.58	2.16
Max.	15	23	33	79	1,195	866	92	30	11	5.70	3.90	3.90
Min.	2.20	3.00	3.60	4.80	27	78	23	11	5.70	3.90	2.80	1.00
Runoff — mcm.	12.917	21.470	28.650	50.760	662.947	442.109	105.667	40.003	22.822	13.115	8.977	5.797

WATER YEAR 1955 : Max. 1,195 Min. 1.00 Mean 44.7 Annual Runoff 1,415.241 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 31	12.00	179.06	1,229				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
YOM RIVER BASIN

Mae Yom River at Ban Nun, Phrae (Y.11)

Location: Lat 18° - 30' - 23" N, Long 100° - 09' - 32" E, on left bank at Ban Wang Din, tambon Ban Nun, 4.5 kilometers west of country road Amphoe Ngao - Amphoe Song, Amphoe Song, Phrae.

Drainage Area: 5,542 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: 74.00 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.

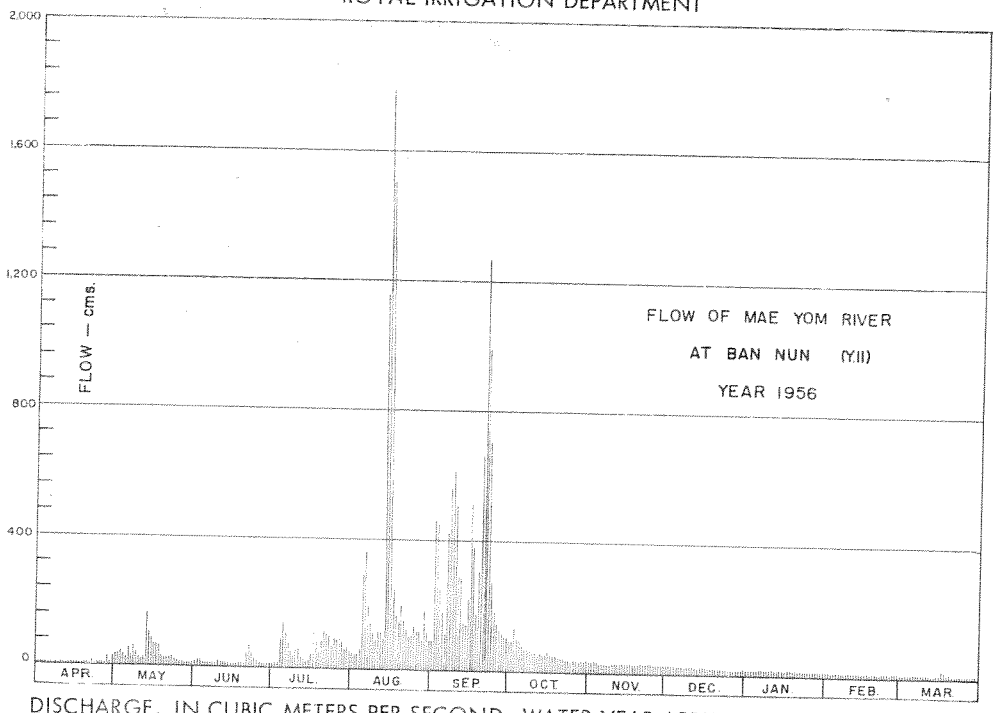
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955-56. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.20	174.87	174.86	174.57	175.02	175.40	175.43	174.87	174.78	174.64	174.61	174.53
2	.21	.92	.70	.59	174.99	177.06	.40	.87	.78	.63	.61	.53
3	.21	.97	.65	.57	175.00	.03	.67	.86	.77	.63	.60	.53
4	.21	.86	.56	175.23	.12	176.16	.46	.85	.77	.63	.60	.52
5	.21	.76	.51	.70	176.41	175.76	.37	.83	.77	.63	.59	.52
6	174.20	175.07	174.50	175.51	176.70	175.56	175.27	174.83	174.76	174.63	174.59	174.52
7	.20	174.96	.48	.22	175.95	176.84	.22	.84	.75	.63	.59	.52
8	.20	175.15	.47	.01	.71	177.36	.19	.82	.75	.63	.58	.51
9	.20	174.92	.49	174.88	.50	.53	.18	.81	.75	.63	.57	.49
10	.20	.73	.67	175.18	.35	.02	.12	.82	.74	.63	.57	.47
11	174.20	174.69	174.61	175.13	175.55	176.43	175.10	174.82	174.73	174.63	174.57	174.55
12	.18	.75	.57	174.88	.54	.40	.06	.82	.72	.63	.57	.53
13	.19	175.84	.53	.77	.42	175.74	.10	.82	.72	.63	.57	.51
14	.19	.47	.50	.71	180.13	.70	.09	.84	.72	.63	.57	.51
15	.19	.35	.51	.73	179.43	.78	.08	.83	.72	.62	.56	.51
16	174.19	175.20	174.49	174.87	176.55	177.23	175.13	174.83	174.71	174.62	174.56	174.51
17	.19	174.78	.49	175.56	.19	176.52	.07	.82	.70	.62	.56	.76
18	.20	.71	.58	.35	175.86	175.88	.03	.83	.70	.62	.56	.74
19	.24	.83	.53	.03	.75	176.20	.01	.81	.70	.62	.56	.55
20	.21	.76	.49	.36	.98	177.26	174.99	.81	.69	.62	.55	.54
21	174.21	174.77	174.95	175.57	175.77	179.13	174.97	174.82	174.69	174.62	174.55	174.53
22	.47	.60	175.19	.52	.61	178.20	.94	.81	.68	.62	.55	.53
23	.36	.77	.02	.45	.48	176.78	.93	.80	.68	.62	.55	.52
24	.38	.70	174.82	.23	.48	.10	.92	.80	.67	.62	.55	.52
25	.34	.64	.72	.42	.67	175.91	.91	.81	.66	.62	.55	.52
26	174.34	174.57	174.65	175.37	175.58	175.74	174.89	174.79	174.66	174.62	174.54	174.52
27	.34	.58	.59	.78	.56	.65	.88	.79	.65	.61	.54	.52
28	.76	.54	.54	.32	.38	.55	.87	.79	.65	.61	.54	.52
29	.34	.53	.52	.12	.90	.51	.87	.79	.65	.61		.52
30	.80	.51	.53	.21	.59	.46	.87	.78	.65	.61		.52
31		.52		.05	.40		.88		.64	.61		.52
Mean	174.28	174.85	174.62	175.16	175.92	176.43	175.09	174.82	174.71	174.62	174.57	174.53
Max.	174.80	175.84	175.19	175.78	180.13	179.13	175.67	174.87	174.78	174.64	174.61	174.76
Min.	174.18	174.51	174.47	174.57	174.99	175.40	174.87	174.78	174.64	174.61	174.54	174.47

WATER YEAR 1956 : Max. 180.13 m. Min. 174.18 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	35	19	13	49	93	97	35	27	18	16	11
2	1.20	39	21	14	46	460	93	35	27	17	16	11
3	1.20	44	18	13	47	451	135	34	27	17	15	11
4	1.20	34	13	72	59	231	101	33	27	17	15	11
5	1.20	26	10	140	287	151	89	31	27	17	14	11
6	1.00	54	10	109	360	117	76	31	26	17	14	11
7	1.00	26	9.20	70	188	398	70	32	25	17	14	11
8	1.00	62	8.80	48	142	554	67	31	25	17	14	10
9	1.00	39	9.60	36	107	610	66	30	25	17	13	9.60
10	1.00	24	19	66	86	448	59	31	24	17	13	8.80
11	1.00	21	16	60	115	292	57	31	24	17	13	12
12	0.80	25	13	96	113	285	53	31	23	17	13	11
13	0.90	166	11	27	96	147	57	31	23	17	13	10
14	0.90	103	10	22	1,782	140	56	32	23	17	13	10
15	0.90	86	10	24	1,418	154	55	31	25	16	13	10
16	0.90	68	9.60	35	321	512	60	31	22	16	13	10
17	0.90	27	9.60	117	238	314	54	31	21	16	13	26
18	1.00	22	14	86	170	174	50	31	21	16	13	24
19	1.80	31	11	50	149	240	48	30	21	16	13	12
20	1.20	26	9.60	85	194	521	46	30	21	16	12	12
21	1.20	27	42	118	155	1,264	44	31	21	16	12	11
22	8.80	29	67	110	125	858	41	30	20	16	12	11
23	4.80	27	40	100	104	382	40	29	20	16	12	11
24	5.40	21	31	72	104	218	39	29	19	16	12	11
25	4.20	18	23	96	135	180	38	30	19	16	12	11
26	4.20	13	18	89	120	147	37	28	19	16	12	11
27	4.20	14	14	154	117	128	36	28	18	16	12	11
28	26	12	12	85	90	115	35	28	18	16	12	11
29	4.20	11	11	59	178	109	35	28	18	16		11
30	29	10	11	69	121	101	35	27	18	16		11
31		11		52	95		36		18	16		11
Total	113.10	1,151	529.40	2,128	7,307	9,794	1,805	920	690	511	369	363.40
Mean	3.77	37.1	17.6	68.6	236	326	58.2	30.7	22.2	16.5	13.2	11.7
Max.	29	166	67	154	1,782	1,264	135	35	27	18	16	26
Min.	0.80	10	8.80	13	46	93	35	27	18	16	12	8.80
Runoff - mcm.	9.772	99.446	45.740	183.859	631.325	846.202	155.952	79.488	59.616	44.150	31.882	31.398

WATER YEAR 1956 : Max. 1,782 Min. 0.80 Mean 70.3 Annual Runoff 2,218.830 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 14	18.00	180.73	2,098				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18°- 47' - 00" N, Long 100°- 47' - 22" E, on right bank at Ban Tha Chang, 3 kilometers upstream from house of Governer, Amphoe Muang, Nan.

Drainage Area: 4,606 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.12 m. (M.S.L.)

Bench Mark: B.M. - N.S. Nan

Location: On right bank 3 kilometers downstream from gage site.
Elevation: +199.350 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 - 65

Rating Operation:

Period of Rating: 1954 - 57
Rated by Float: -
Rated by Current Meter: 1954 - 57

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 period of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions for irrigation. No adjustment made for virgin flow.

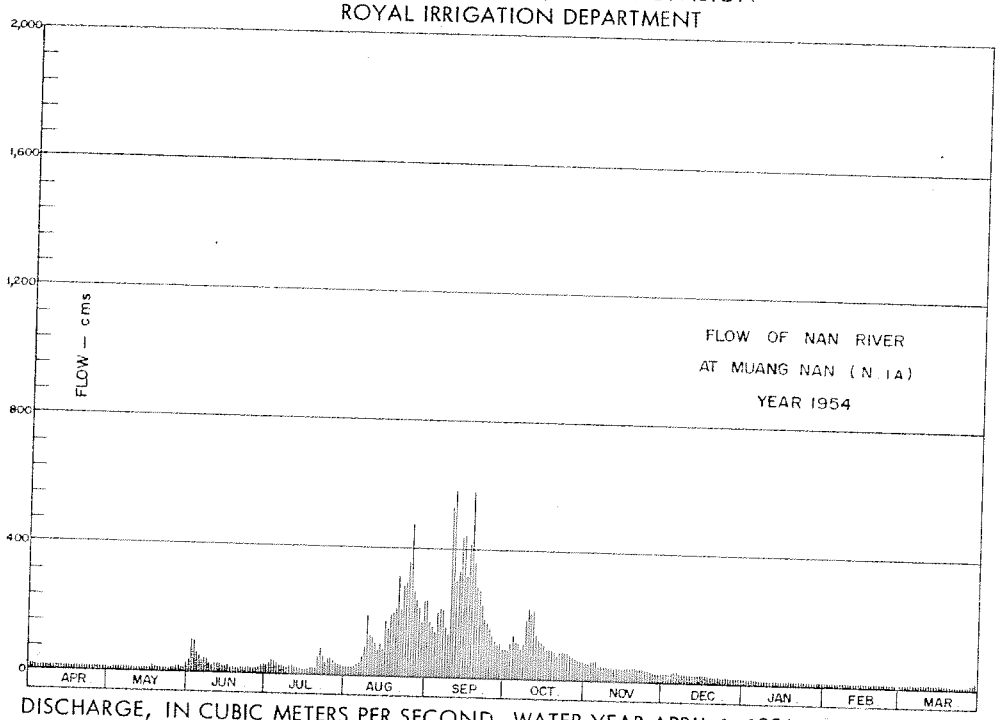
Remarks: Mean daily gage - height record period Apr.1 - 30, is obtained by correlation between station N.1 and N.1A

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.20	195.09	195.65	195.46	195.51	197.28	195.97	195.66	195.46	195.33	195.24	195.16
2	.20	.12	196.26	.65	.56	196.78	.94	.65	.46	.32	.23	.15
3	.19	.17	.15	.82	.55	.72	196.09	.66	.46	.31	.23	.15
4	.19	.24	.00	.76	.51	.43	.27	.71	.51	.31	.23	.15
5	.17	.27	195.83	.57	.63	.79	.12	.67	.58	.31	.22	.15
6	195.17	195.24	195.66	195.49	195.75	197.04	196.09	195.62	195.55	195.30	195.21	195.15
7	.17	.21	.77	.46	196.03	196.99	195.99	.61	.42	.30	.21	.15
8	.17	.19	.70	.44	.29	.66	196.06	.59	.50	.29	.20	.15
9	.17	.18	.55	.45	197.16	.44	.54	.57	.49	.29	.20	.15
10	.17	.16	.47	.52	.79	198.57	.76	.56	.47	.29	.19	.14
11	195.17	195.15	195.52	195.48	196.56	198.71	196.69	195.56	195.46	195.28	195.19	195.14
12	.15	.15	.54	.43	.35	197.37	.73	.56	.46	.28	.19	.14
13	.15	.15	.50	.40	.16	.44	.34	.56	.45	.28	.19	.14
14	.15	.15	.44	.38	.37	.90	.18	.56	.45	.28	.18	.14
15	.15	.16	.39	.36	.57	.89	.13	.56	.45	.28	.18	.13
16	195.15	195.16	195.35	195.35	196.98	197.48	196.09	195.56	195.44	195.27	195.18	195.13
17	.15	.40	.32	.39	.76	198.08	.01	.57	.44	.27	.17	.13
18	.15	.36	.31	.46	197.01	.41	195.98	.58	.43	.27	.17	.12
19	.16	.31	.29	.43	.00	197.56	.94	.59	.41	.27	.17	.11
20	.16	.24	.29	.42	.09	.16	.95	.58	.40	.27	.17	.11
21	195.17	195.23	195.37	196.01	197.72	197.10	195.94	195.56	195.40	195.27	195.16	195.11
22	.17	.20	.29	.25	.15	196.82	.93	.55	.39	.27	.16	.10
23	.17	.17	.33	.00	.55	.62	.92	.53	.38	.26	.17	.10
24	.18	.18	.39	195.79	.58	.51	.91	.51	.38	.26	.16	.10
25	.18	.23	.33	.92	.82	.37	.87	.50	.38	.26	.15	.10
26	195.19	195.24	195.32	195.90	198.18	196.24	195.84	195.49	195.37	195.26	195.15	195.10
27	.19	.21	.33	.84	197.32	.14	.79	.47	.36	.26	.15	.10
28	.17	.33	.39	.70	.18	.07	.76	.46	.36	.25	.16	.20
29	.17	.26	.45	.68	.11	.01	.73	.47	.35	.25		.30
30	.15	.24	.46	.59	196.78	195.97	.71	.46	.34	.25		.34
31		.55		.53	197.16		.68		.33	.24		.43
Mean	195.17	195.22	195.52	195.61	196.75	197.05	196.06	195.57	195.43	195.27	195.18	195.15
Max.	195.20	195.55	196.26	196.25	198.18	198.71	196.76	195.71	195.58	195.33	195.24	195.43
Min.	195.15	195.09	195.29	195.35	195.51	195.97	195.68	195.46	195.33	195.24	195.15	195.10

WATER YEAR 1954 : Max. 198.71 m. Min. 195.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	6.80	39	28	29	238	92	55	28	18	13	9.80
2	13	8.00	100	37	34	171	88	54	28	18	13	9.35
3	12	10	97	45	28	157	110	59	28	17	13	9.35
4	12	13	60	43	31	139	135	61	31	17	13	9.35
5	11	15	50	34	39	202	115	61	35	17	12	9.35
6	11	13	36	28	44	216	110	45	33	16	12	9.35
7	11	12	45	28	63	209	91	48	31	16	12	9.35
8	11	11	41	24	93	159	107	46	29	16	12	9.35
9	11	10	30	23	169	132	184	44	28	15	12	9.35
10	11	9.80	23	31	127	531	219	42	27	15	11	8.90
11	11	9.35	28	30	119	586	205	43	26	15	11	8.90
12	10	9.35	29	24	103	299	214	41	26	15	11	8.90
13	10	9.35	28	21	80	331	141	41	25	14	11	8.90
14	10	9.35	23	19	103	437	122	42	25	15	11	8.90
15	10	9.80	21	16	125	442	115	39	25	15	10	8.45
16	10	14	25	16	174	315	107	40	25	14	10	8.45
17	10	22	16	19	150	416	90	41	25	14	10	8.45
18	10	20	18	25	192	582	95	41	24	15	10	8.00
19	11	16	16	22	200	359	91	42	23	14	10	7.60
20	11	12	16	22	214	282	88	41	22	14	10	7.60
21	11	11	23	50	315	272	74	40	22	14	10	7.60
22	11	9.35	16	85	209	225	87	39	22	14	10	7.20
23	11	8.45	18	57	284	184	87	37	21	14	11	7.20
24	12	9.80	22	40	307	172	85	34	21	14	10	7.20
25	12	13	18	51	359	153	81	34	21	14	9.80	7.20
26	12	15	16	52	475	130	77	32	20	14	9.80	7.20
27	12	16	18	45	366	114	70	31	20	14	9.80	7.20
28	11	18	22	37	240	105	66	31	20	13	10	11
29	11	15	28	36	216	101	63	28	19	13		16
30	10	12	29	32	169	91	60	28	19	13		19
31		31		29	238		57		18	13		24
Total	352	396.40	951	1,054	5,208	7,747	3,326	1,260	767	460	307.40	298.45
Mean	11.1	12.8	31.7	34.0	168	258	107	42.0	24.7	14.8	11.0	9.63
Max.	13	31	100	85	475	585	219	61	35	18	13	24
Min.	10	6.80	16	16	28	91	57	28	18	13	9.35	7.20
Runoff — mcm.	28.685	34.249	82.166	91.066	449.971	669.341	287.366	108.864	66.269	39.744	26.559	25.786

WATER YEAR 1954 : Max. 585 Min. 7.20 Mean 60.5 Annual Runoff 1,909.807 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 10	18.00	200.01	715				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18°- 47' - 00" N, Long 100°- 47' - 22" E, on right bank at Ban Tha Chang, 3 kilometers upstream from house of Governer, Amphoe Muang, Nan.

Drainage Area: 4,606 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.12 m. (M.S.L.)

Bench Mark: B.M. - N.S. Nan

Location: On right bank 3 kilometers downstream from gage site.
Elevation: +199.359 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 - 63

Rating Operation:

Period of Rating: 1954 - 57
Rated by Float: -
Rated by Current Meter: 1954 - 57

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

Overbank Flow Conditions: Overbank flow was observed at elevation +201.38 m. (M.S.L.) but not included for flow computation.

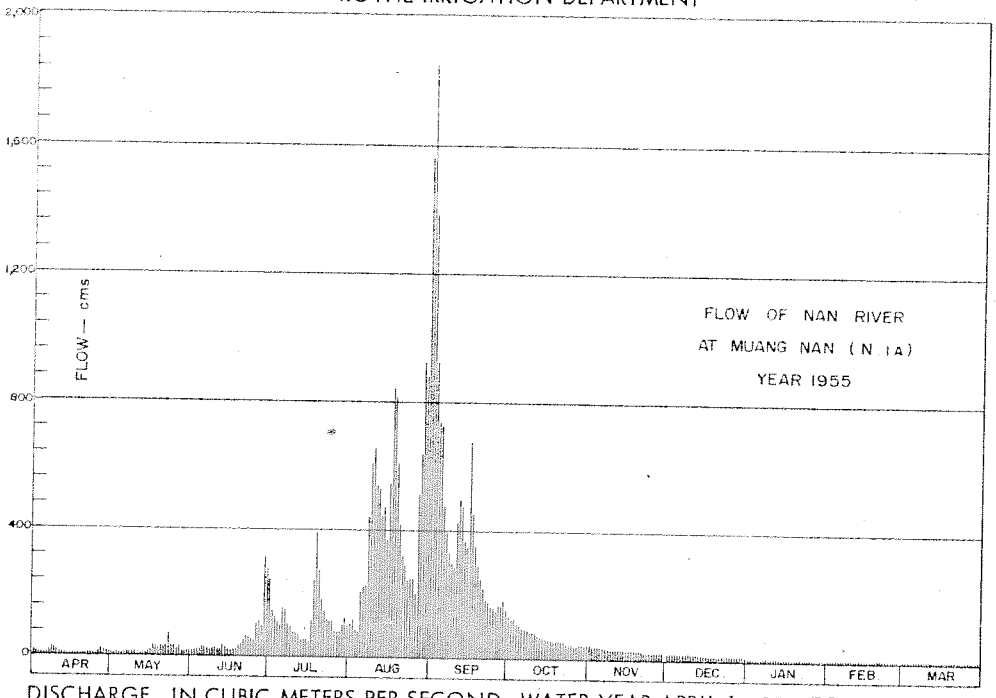
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.35	195.26	195.41	197.12	196.25	201.52	196.34	195.64	195.39	195.25	195.21	195.15
2	.24	.25	.43	196.57	.35	200.03	.26	.59	.39	.25	.21	.15
3	.19	.31	.47	.44	.18	199.44	.29	.57	.39	.24	.20	.15
4	.17	.27	.54	.33	.10	198.92	.20	.56	.38	.24	.20	.15
5	.17	.26	.49	.25	.71	.89	.19	.54	.38	.24	.20	.14
6	195.20	195.21	195.54	196.62	197.10	198.04	196.12	195.53	195.38	195.23	195.19	195.14
7	.33	.34	.51	.60	196.90	197.70	.05	.53	.38	.23	.18	.16
8	.46	.31	.52	.30	197.95	.42	195.91	.52	.39	.23	.18	.19
9	.39	.36	.57	.17	198.80	.32	.99	.51	.39	.23	.18	.17
10	.27	.33	.60	.05	.88	.26	.97	.50	.38	.23	.17	.15
11	195.22	195.32	195.56	196.00	198.25	197.71	195.93	195.51	195.37	195.23	195.16	195.15
12	.20	.32	.56	195.95	.31	198.04	.90	.52	.36	.23	.17	.13
13	.20	.26	.73	.89	197.87	197.93	.87	.51	.35	.23	.21	.13
14	.19	.28	.64	.90	.98	.49	.85	.49	.35	.23	.22	.13
15	.19	.45	.55	.89	.55	.44	.82	.47	.34	.23	.21	.15
16	195.18	195.50	195.54	195.88	198.23	198.69	195.80	195.47	195.34	195.23	195.19	195.14
17	.17	.63	.55	196.33	199.31	197.95	.78	.47	.34	.23	.18	.13
18	.16	.54	.55	197.32	.25	.51	.75	.44	.33	.23	.16	.14
19	.15	.55	.66	.84	198.55	.23	.74	.44	.32	.25	.16	.15
20	.14	.45	.68	.38	197.84	.12	.74	.43	.32	.24	.16	.15
21	195.15	195.49	195.91	196.80	197.43	196.88	195.72	195.43	195.31	195.24	195.16	195.15
22	.20	.66	.98	.57	.23	.76	.69	.42	.30	.24	.17	.15
23	.35	196.12	.93	.36	196.97	.70	.67	.41	.29	.24	.17	.14
24	.18	195.87	.86	.27	197.02	.49	.64	.40	.29	.23	.17	.12
25	.18	.66	.86	.27	.02	.49	.64	.40	.29	.23	.17	.12
26	195.37	195.54	196.28	196.11	197.78	196.40	195.63	195.40	195.28	195.23	195.16	195.12
27	.58	.50	.34	.04	198.12	.52	.65	.40	.28	.23	.15	.11
28	.44	.48	.22	.05	.58	.54	.66	.40	.27	.23	.15	.10
29	.35	.47	197.46	197.24	199.40	.69	.64	.40	.27	.22	.15	.10
30	.29	.46	.26	.36	.59	.45	.62	.40	.27	.22		.11
31		.42		.19	200.83		.66		.26	.22		.12
Mean	195.26	195.45	195.81	196.15	197.84	197.65	195.86	195.48	195.32	195.23	195.18	195.14
Max.	195.58	196.12	197.46	197.84	200.83	201.52	196.34	195.64	195.39	195.25	195.21	195.19
Min.	195.14	195.21	195.41	195.88	196.10	196.40	195.62	195.40	195.26	195.22	195.15	195.10

WATER YEAR 1955 : Max. 201.52 m. Min. 195.10 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	15	29	246	111	1,850	157	50	27	15	13	9.50
2	16	13	27	150	125	1,600	128	45	27	15	13	9.50
3	13	16	27	131	95	924	134	44	27	14	12	9.50
4	12	14	29	115	88	741	119	44	26	14	13	9.50
5	11	14	36	104	215	228	112	42	26	13	13	9.50
6	12	16	35	158	225	479	101	41	26	13	12	9.50
7	21	18	29	155	259	395	98	40	26	13	11	10
8	32	15	26	111	444	533	94	39	26	14	11	12
9	27	19	30	100	672	300	88	38	26	14	11	10
10	29	17	35	81	654	288	88	36	29	14	10	9.50
11	16	16	29	80	942	427	85	37	25	14	9.50	9.50
12	14	16	29	74	532	502	76	38	24	14	10	9.50
13	13	15	43	98	446	474	72	37	24	14	12	8.50
14	10	15	35	61	476	368	70	36	24	13	13	8.50
15	8.50	22	29	64	375	351	67	35	23	13	13	9.50
16	9.50	27	29	56	548	680	64	35	23	13	12	9.00
17	9.50	39	29	122	846	449	62	35	22	13	11	9.00
18	10	34	29	246	818	355	59	33	22	13	10	9.00
19	9.00	29	39	396	612	292	59	34	21	14	10	9.50
20	8.50	35	41	274	424	252	60	33	21	13	10	9.50
21	9.50	35	63	186	324	223	59	33	21	13	10	9.50
22	12	39	71	150	294	186	57	31	20	13	10	10
23	14	77	66	121	246	182	52	30	20	13	10	9.50
24	10	55	58	119	220	182	51	29	21	12	10	9.50
25	10	38	58	119	262	165	49	29	21	12	10	9.50
26	21	29	109	88	415	152	47	29	20	12	10	9.00
27	29	36	118	85	515	171	47	29	19	13	10	9.00
28	21	22	101	85	639	170	50	29	19	13	10	8.50
29	19	23	318	111	927	189	49	28	18	12	10	9.00
30	17	25	276	128	880	157	47	28	18	13		9.50
31		25		104	1,559		52		16	13		10
Total	458.50	818	1,866	4,074	14,693	13,560	2,335	1,067	705	412	319.50	293.00
Mean	15.3	26.4	62.2	131	474	452	75.2	35.6	22.7	13.3	11.5	9.40
Max.	32	77	318	396	1,559	1,850	157	50	27	15	13	12
Min.	8.50	13	26	56	88	152	47	28	16	12	9.50	8.50
Runoff — mcm.	39.614	70.675	161.222	351.994	1,269.475	1,171.584	201.571	92.189	60.739	35.597	27.605	25.186

WATER YEAR 1955 : Max. 1,850 Min. 8.50 Mean 110 Annual Runoff 3,489.307 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	18.00	201.62	1,900				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Muang Nan (N.1A)

Location: Lat 18°– 47' – 00" N, Long 100°– 47' – 22" E, on right bank at Ban Tha Chang, 3 kilometers upstream from house of Governer, Amphoe Muang, Nan.

Drainage Area: 4,606 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +194.12 m. (M.S.L.)

Bench Mark: B.M. – H.S. Nan

Location: On right bank 3 kilometers downstream from gage site.
Elevation: +199.350 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 – 63

Rating Operation:

Period of Rating: 1954 – 57
Rated by Float: –
Rated by Current Meter: 1954 – 57

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

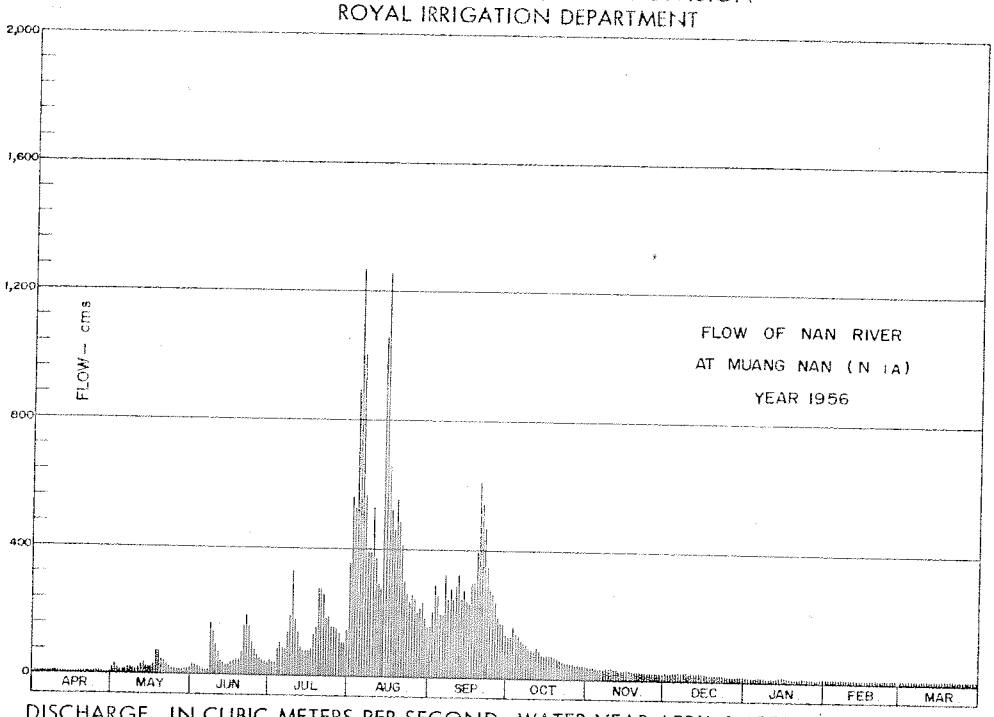
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	195.11	195.42	195.53	195.65	197.56	196.51	196.28	195.52	195.36	195.20	195.17	195.13
2	.11	.50	.48	.65	198.39	.76	.26	.50	.35	.20	.17	.13
3	.11	.38	.43	.62	.20	197.23	.45	.50	.36	.19	.18	.13
4	.11	.28	.38	.99	199.21	.05	.35	.49	.36	.19	.19	.13
5	.13	.28	.32	196.13	200.35	196.73	.22	.48	.36	.19	.20	.13
6	195.15	195.30	195.29	196.04	199.92	196.80	196.16	195.48	195.35	195.19	195.19	195.12
7	.15	.42	.34	.02	198.52	197.50	.11	.47	.35	.18	.18	.12
8	.16	.39	196.77	.33	197.76	.01	.08	.50	.35	.18	.18	.12
9	.18	.34	.60	.67	.70	.19	.01	.47	.35	.18	.18	.12
10	.16	.31	.16	197.66	198.38	.00	195.97	.46	.34	.18	.17	.12
11	195.15	195.36	195.86	196.78	197.62	197.22	195.94	195.44	195.34	195.18	195.17	195.12
12	.13	.53	.70	.45	.23	.36	196.00	.44	.34	.18	.17	.12
13	.13	.58	.59	.13	.16	.00	195.95	.43	.33	.19	.16	.12
14	.11	.47	.53	.00	199.72	.14	.84	.42	.33	.19	.16	.12
15	.10	.41	.59	195.99	200.35	196.96	.81	.42	.32	.19	.16	.12
16	195.11	195.29	195.70	195.97	199.85	196.90	195.79	195.42	195.32	195.19	195.16	195.13
17	.11	.49	.67	196.05	.18	197.27	.79	.42	.31	.19	.15	.13
18	.11	196.00	.63	.37	197.96	.31	.77	.41	.31	.18	.15	.13
19	.12	195.98	.72	.55	198.37	.58	.75	.40	.30	.18	.15	.13
20	.12	.72	.98	197.35	.08	198.43	.71	.39	.29	.18	.15	.13
21	195.11	195.60	196.62	197.30	197.77	198.21	195.69	195.41	195.28	195.18	195.14	195.13
22	.12	.52	.87	.15	.29	197.94	.66	.37	.28	.18	.14	.12
23	.17	.44	.63	196.86	.11	.46	.63	.40	.27	.18	.18	.12
24	.18	.39	.24	.70	196.98	.18	.62	.36	.26	.18	.14	.12
25	.16	.35	.01	.52	197.10	.07	.60	.36	.24	.18	.14	.12
26	195.14	195.32	195.87	196.49	197.05	196.78	195.60	195.35	195.24	195.17	195.14	195.12
27	.13	.30	.73	.50	196.80	.64	.56	.35	.23	.17	.13	.11
28	.13	.32	.66	.43	.90	.53	.55	.35	.23	.17	.13	.11
29	.12	.35	.61	.21	.95	.47	.54	.35	.22	.16		.11
30	.12	.34	.60	.18	.70	.36	.54	.35	.21	.16		.11
31		.40		.47	.53		.53		.20	.16		.11
Mean	195.13	195.44	195.84	196.39	198.02	197.12	195.86	195.42	195.31	195.18	195.16	195.12
Max.	195.18	196.00	196.87	197.66	200.35	198.43	196.45	195.52	195.36	195.20	195.20	195.13
Min.	195.10	195.28	195.29	195.62	196.53	196.36	195.53	195.35	195.20	195.16	195.13	195.11

WATER YEAR 1956 : Max. 200.35 m. Min. 195.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.20	29	37	50	355	161	130	43	26	16	13	11
2	9.60	35	34	49	561	208	135	41	24	15	13	11
3	9.60	25	31	47	522	292	166	40	23	14	14	11
4	9.20	18	26	88	891	256	139	39	26	15	14	11
5	9.60	18	25	107	1,270	199	150	37	27	15	15	11
6	10	20	20	95	1,007	199	120	39	22	16	14	10
7	10	27	24	89	569	322	111	38	26	16	14	10
8	12	26	167	132	390	246	109	38	26	15	14	10
9	14	22	141	191	390	278	97	38	25	15	14	10
10	12	20	100	552	550	246	91	35	25	14	13	10
11	12	23	73	180	370	288	88	32	24	14	13	10
12	11	33	48	141	288	322	97	35	25	14	13	10
13	9.60	41	41	95	274	246	88	31	25	15	12	10
14	9.20	31	34	82	1,061	222	76	31	26	16	12	10
15	9.20	27	38	85	1,256	238	74	32	24	17	12	10
16	9.20	26	46	82	660	232	75	32	25	16	12	11
17	8.80	34	48	88	522	296	74	31	22	15	12	11
18	8.40	76	52	132	460	302	72	31	21	15	12	11
19	9.20	75	52	156	555	395	67	30	21	14	12	11
20	9.60	51	76	224	485	611	64	29	21	14	12	11
21	8.80	43	158	278	413	543	60	28	21	15	11	11
22	9.60	36	191	258	302	465	57	27	22	15	11	10
23	12	30	159	184	264	345	52	27	21	16	11	10
24	15	26	108	191	236	276	54	26	20	15	11	10
25	12	24	87	195	280	260	48	26	18	15	11	10
26	12	21	71	155	248	236	50	25	17	14	11	10
27	9.60	21	57	151	207	187	45	25	17	13	11	9.60
28	9.20	21	51	142	221	174	48	25	18	14	11	9.60
29	9.20	24	48	129	234	171	46	24	18	14		9.60
30	9.60	23	46	107	187	139	46	24	18	14		9.60
31		26		148	158		44		17	15		9.60
Total	306.40	952	2,087	4,369	15,146	8,405	2,552	959	695	461	348	319.00
Mean	10.2	30.7	69.6	141	488	280	82.3	32.0	22.4	14.9	12.4	10.3
Max.	14	76	191	332	1,270	611	166	43	27	17	15	11
Min.	8.40	18	20	42	158	139	44	24	17	13	11	9.60
Runoff — mcm.	26.473	82.253	180.317	377.482	1,308.614	726.192	220.495	82.858	60.048	39.830	30.067	27.562

WATER YEAR 1956 : Max. 1,270 Min. 8.40 Mean 100 Annual Runoff 3,162.188 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 5	12.00	200.50	1,350				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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, one kilometer upstream from recorder site. (N.2A which continued record at N.2 in year 1962)

Drainage Area: 16,862 sq.km.

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.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954 - 59. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

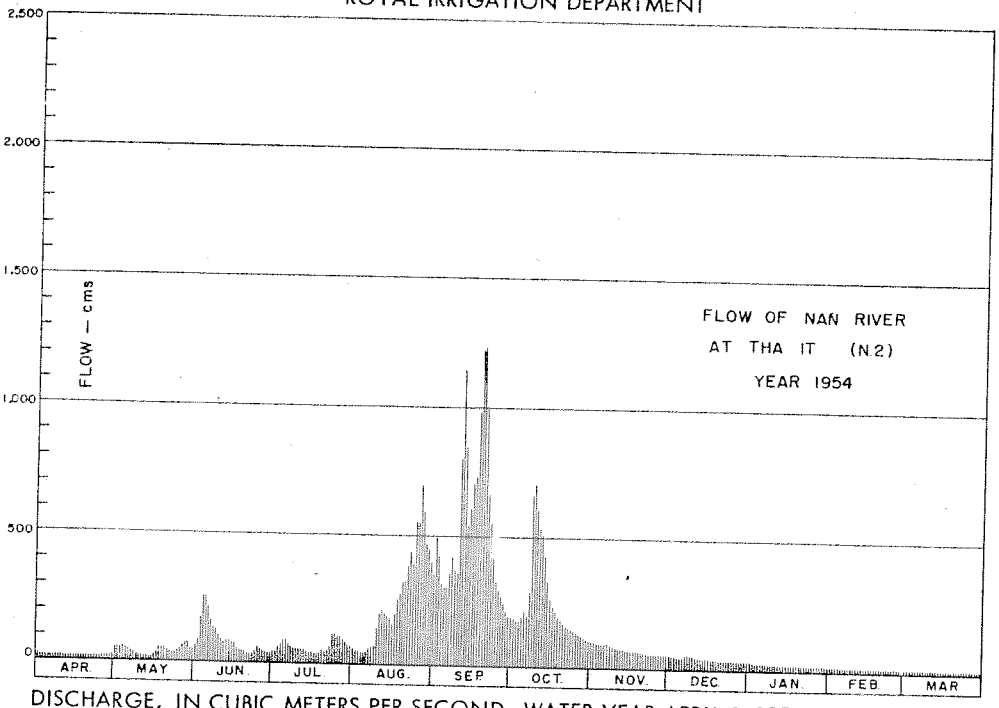
Remarks: Adjusted gage - height for some periods.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.02	53.45	53.58	53.43	53.57	55.65	54.74	54.00	53.45	53.19	53.01	52.85
2	.00	.50	.87	.41	.50	56.38	.72	53.97	.44	.18	.00	.85
3	.00	.50	54.63	.60	.46	55.95	.65	.96	.43	.16	52.99	.84
4	.00	.55	55.17	.73	.43	.49	.65	.94	.42	.15	.99	.84
5	.00	.45	.17	.90	.42	.45	.77	.92	.41	.14	.99	.84
6	53.00	53.40	54.79	53.92	53.42	55.45	54.91	53.93	53.43	53.13	52.98	52.83
7	.00	.30	.41	.70	.60	.74	.77	.91	.51	.13	.98	.83
8	.00	.25	.30	.61	.64	56.02	55.12	.84	.55	.13	.97	.83
9	.00	.16	.28	.56	.66	55.77	57.02	.80	.49	.11	.97	.82
10	.00	.10	.05	.56	54.31	.51	.19	.76	.44	.10	.96	.82
11	52.96	53.00	53.84	53.54	54.80	57.60	56.83	53.74	53.43	53.09	52.95	52.82
12	.96	.00	.70	.51	.91	58.61	.52	.72	.40	.08	.94	.81
13	.96	.00	.80	.49	.79	57.41	.42	.70	.38	.08	.94	.81
14	.96	.00	.84	.41	.75	56.39	55.97	.68	.35	.07	.94	.80
15	.96	.00	.79	.38	.70	.90	.51	.66	.34	.06	.93	.79
16	52.96	53.12	53.75	53.35	54.45	57.18	55.23	53.64	53.33	53.09	52.92	52.79
17	.96	.30	.47	.33	.82	.29	.07	.64	.32	.06	.92	.79
18	.96	.52	.42	.32	55.14	58.08	54.94	.62	.31	.06	.91	.79
19	.96	.50	.40	.34	.25	.83	.76	.60	.29	.06	.90	.79
20	.96	.50	.37	.49	.54	.86	.71	.58	.28	.04	.89	.79
21	52.96	53.36	53.28	53.44	55.58	58.17	54.58	53.57	53.28	53.05	52.89	52.79
22	.96	.30	.24	.44	.89	56.97	.51	.57	.27	.04	.88	.79
23	.96	.22	.22	.64	56.11	.40	.46	.54	.27	.04	.88	.78
24	.96	.22	.34	54.15	55.83	55.96	.42	.53	.26	.04	.88	.78
25	.96	.35	.58	.17	56.62	.62	.36	.51	.26	.03	.87	.78
26	52.96	53.47	53.47	54.05	56.49	55.41	54.31	53.51	53.25	53.03	52.86	52.78
27	.96	.62	.39	.09	57.16	.25	.28	.49	.24	.03	.86	.77
28	53.02	.70	.34	53.97	56.76	.08	.22	.49	.23	.02	.86	.77
29	.02	.73	.32	.85	.27	54.86	.16	.49	.21	.03		.76
30	.07	.44	.32	.75	.16	.76	.09	.47	.20	.01		.76
31		.44		.69	55.98		.05	.47	.19	.01		.78
Mean	52.98	53.34	53.80	53.64	54.97	56.43	55.03	53.68	53.34	53.08	52.93	52.80
Max.	53.07	53.73	55.17	54.17	57.16	58.86	57.19	54.00	53.55	53.19	53.01	52.85
Min.	52.96	53.00	53.22	53.32	53.42	54.76	54.05	53.47	53.19	53.01	52.86	52.76

WATER YEAR 1954 : Max. 58.86 m. Min. 52.76 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	46	56	44	56	362	200	100	46	27	17	10
2	16	50	85	43	50	523	197	96	44	22	16	10
3	16	50	183	58	47	423	186	95	44	26	16	10
4	16	54	273	71	44	330	186	93	44	25	16	10
5	16	46	273	88	44	323	205	90	43	24	16	10
6	16	42	208	90	44	323	228	92	44	24	15	9.00
7	16	34	151	68	58	380	205	89	50	24	15	9.00
8	16	31	136	59	62	438	264	82	54	24	15	9.00
9	16	26	134	55	64	386	686	78	49	23	15	9.00
10	16	22	106	55	137	334	733	74	45	22	14	9.00
11	14	16	82	53	210	854	634	72	44	21	14	9.00
12	14	16	68	51	228	1,194	557	70	42	21	14	8.00
13	14	16	82	49	208	797	533	68	40	21	14	8.00
14	14	16	82	43	202	526	427	66	38	20	14	8.00
15	14	16	77	40	194	652	334	64	37	20	13	8.00
16	14	23	73	38	157	730	283	62	36	21	13	8.00
17	14	34	48	36	213	761	255	62	36	20	13	8.00
18	14	52	44	36	267	1,002	252	60	35	20	12	8.00
19	14	50	42	37	287	1,278	204	58	33	20	12	8.00
20	14	50	40	49	340	1,289	196	56	33	18	12	8.00
21	14	39	33	45	348	1,032	175	56	33	19	12	8.00
22	14	34	30	45	410	672	165	56	32	18	11	8.00
23	14	29	29	62	458	528	158	53	32	18	11	7.00
24	14	29	37	118	398	425	153	52	32	18	11	7.00
25	14	38	56	120	581	356	144	51	32	18	11	7.00
26	14	48	48	106	550	316	137	51	31	18	14	7.00
27	14	60	41	111	725	287	134	49	30	18	10	7.00
28	17	68	37	96	616	256	126	49	30	17	10	7.00
29	17	71	36	83	497	220	119	48	29	18		7.00
30	20	45	36	73	470	204	111	48	28	17		7.00
31		45		67	430		106		27	17		7.00
Total	453	1,196	2,626	1,989	8,395	17,201	8,273	2,040	1,173	644	376	255
Mean	15.1	38.6	87.5	64.2	271	573	267	68.0	37.8	20.8	13.4	8.22
Max.	20	71	273	120	725	1,289	733	100	54	27	17	10
Min.	14	16	29	36	44	204	106	48	27	17	10	7.00
Runoff — mcm.	39.139	103.33	226.886	171.850	725.328	1,486.166	714.787	176.256	101.347	55.642	32.486	22.032

WATER YEAR 1954 : Max. 1,289 Min. 7.00 Mean 122 Annual Runoff 3,855.254 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 20	12.00	58.89	1,301				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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, one kilometer upstream the recorder site (N.2A which continued record at N.2 in year 1962)

Drainage Area: 16,862 sq.km.

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.

Overbank Flow Conditions: Overbank flow was observed at elevation +61.465 m. (M.S.L.) but not included for flow computation.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1954 – 59. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

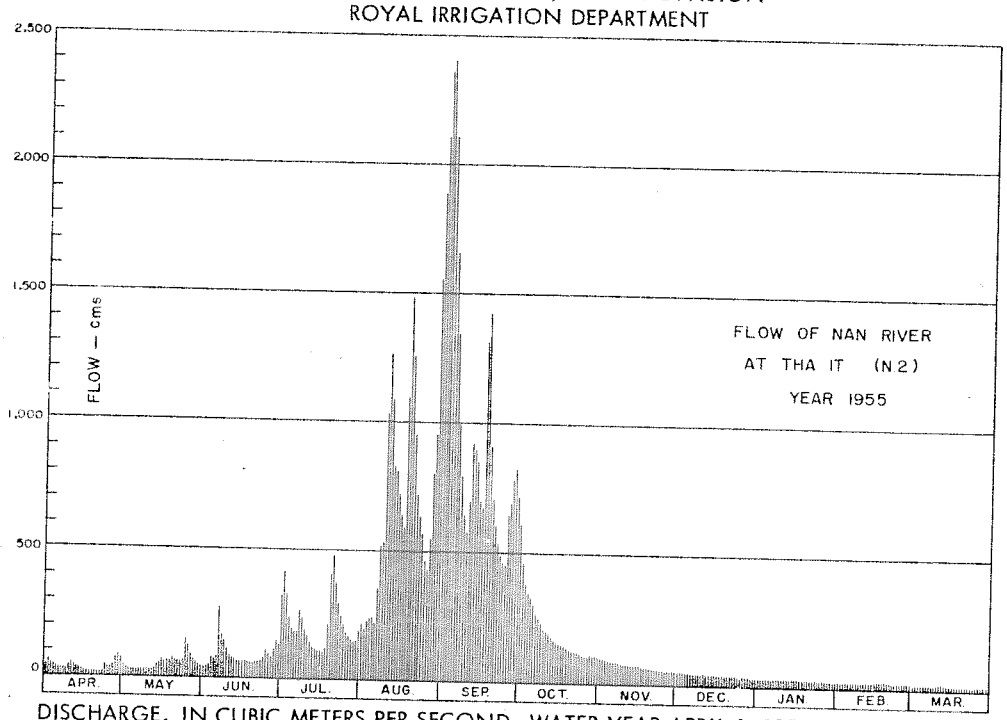
Remarks: Adjusted gage – height for some periods.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.15	55.28	53.22	55.53	54.85	60.90	56.74	54.00	53.52	53.28	53.21	53.08
2	.39	.15	.20	.91	.64	61.50	.24	53.99	.52	.27	.19	.10
3	.30	.06	.35	.42	.89	.61	55.74	.99	.51	.25	.17	.08
4	.16	.01	.62	54.92	.94	.51	.54	.94	.51	.29	.17	.08
5	.09	.05	.53	.61	.96	60.04	.47	.91	.50	.31	.17	.08
6	53.05	53.01	53.66	54.59	54.80	59.09	55.30	53.89	53.49	53.31	53.17	53.08
7	.03	.01	55.17	.51	56.27	58.07	.14	.86	.48	.31	.18	.07
8	.03	.01	54.22	55.11	.33	57.33	.02	.84	.47	.30	.18	.08
9	.02	.01	.16	54.98	.40	56.86	54.92	.82	.47	.30	.18	.07
10	.19	.01	55.87	.59	58.19	.57	.80	.81	.47	.29	.18	.11
11	53.31	53.01	53.69	54.40	58.86	57.13	54.74	53.80	53.46	53.28	53.18	53.13
12	.19	.01	.58	.23	.37	.86	.68	.78	.46	.28	.19	.16
13	.10	.05	.55	.12	57.62	.76	.60	.78	.45	.28	.20	.15
14	.06	.29	.45	.06	.46	.60	.52	.78	.43	.27	.21	.09
15	.00	.37	.43	.20	.12	56.97	.46	.76	.41	.27	.23	.07
16	52.99	53.54	53.46	54.01	56.82	56.96	54.41	53.74	53.40	53.27	53.27	53.07
17	.98	.35	.47	.00	.54	59.01	.38	.72	.40	.27	.25	.04
18	.98	.46	.43	.09	58.29	.31	.37	.70	.39	.26	.23	.03
19	.98	.42	.38	.57	59.47	57.80	.30	.68	.39	.26	.22	.02
20	.98	.55	.38	55.84	.02	.12	.26	.66	.38	.25	.20	.01
21	52.98	53.50	53.45	56.19	57.93	56.65	54.23	53.69	53.38	53.25	53.18	53.02
22	.98	.43	.48	55.64	.08	.46	.20	.62	.38	.25	.16	.02
23	.99	.41	.48	.20	56.85	.20	.17	.61	.37	.25	.13	.02
24	53.20	.45	.65	54.99	.55	.10	.12	.60	.35	.24	.12	.04
25	.12	54.20	.87	.75	.43	55.95	.09	.58	.35	.24	.12	.02
26	53.10	54.01	53.74	54.56	56.35	56.89	54.06	53.56	53.37	53.23	53.15	53.01
27	.20	53.69	.66	.49	.85	.97	.04	.55	.36	.23	.15	.01
28	.52	.55	.89	.40	57.40	57.36	.12	.54	.34	.21	.10	.02
29	.66	.42	54.13	.32	.58	.52	.09	.53	.33	.18	.09	.01
30	.53	.33	.16	.32	59.35	.27	.08	.53	.30	.19		.00
31		.27		.56	60.00		.05		.30	.19		.00
Mean	53.14	53.32	53.68	54.74	57.04	57.94	54.67	53.74	53.42	53.27	53.18	53.06
Max.	53.39	54.20	55.17	56.19	60.00	61.61	56.74	54.00	53.52	53.31	53.27	53.16
Min.	52.98	53.01	53.20	54.01	54.64	55.95	54.04	53.53	53.30	53.18	53.09	53.00

WATER YEAR 1955 : Max. 61.61 m. Min. 52.98 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	33	29	338	218	2,134	610	100	52	33	29	21
2	41	25	28	414	184	2,404	490	99	52	32	27	22
3	34	20	36	318	224	2,455	380	99	51	31	26	21
4	26	17	60	229	232	2,318	340	93	51	33	26	21
5	21	19	52	180	236	1,767	327	89	50	35	26	21
6	19	17	64	177	210	1,381	296	87	49	35	26	21
7	18	17	273	165	497	998	267	84	48	35	27	20
8	18	17	126	262	511	773	246	82	48	34	27	21
9	17	17	119	239	528	642	229	80	48	34	27	20
10	27	17	85	177	1,039	569	210	79	48	33	27	23
11	35	17	67	150	1,289	716	200	78	47	33	27	24
12	27	17	56	128	1,104	932	191	76	47	33	27	26
13	22	19	54	114	860	902	178	76	46	33	28	25
14	20	33	46	107	812	854	167	76	44	32	29	21
15	16	40	44	124	714	672	158	74	43	32	30	20
16	16	53	47	101	631	669	151	72	42	32	32	20
17	15	38	48	100	562	1,349	147	70	42	32	31	18
18	15	47	44	111	1,074	1,468	146	68	41	32	30	18
19	15	44	40	174	1,552	914	136	66	41	32	29	17
20	15	54	40	400	1,353	714	131	64	40	31	28	17
21	15	50	46	478	954	588	128	63	40	31	27	17
22	15	44	48	360	702	542	124	60	40	31	26	17
23	16	43	48	278	639	480	120	59	40	31	24	17
24	28	46	63	240	564	456	114	58	38	30	23	18
25	23	124	85	202	535	423	111	56	38	30	23	17
26	22	101	72	172	516	649	107	55	40	30	25	17
27	28	67	64	163	639	672	105	54	39	30	25	17
28	52	54	87	150	794	782	114	53	37	29	22	17
29	64	44	116	159	929	830	111	52	36	27	21	17
30	52	36	119	159	1,484	756	110	52	34	27		16
31		52		172	1,751		106		34	27		16
Total	757	1,202	2,106	6,501	23,317	30,809	6,250	2,174	1,346	980	775	603
Mean	25.2	38.8	70.2	210	752	1,027	202	72.5	43.4	31.6	26.7	19.4
Max.	64	124	273	478	1,751	2,455	610	100	52	35	32	26
Min.	15	17	29	100	184	423	105	52	34	27	21	16
Runoff - mcm.	66.405	103.853	181.958	561.686	2.014.589	2.661.898	540.000	187.834	116.294	84.172	66.960	52.099

WATER YEAR 1955 : Max. 2,455 Min. 15 Mean 210 Annual Runoff 6,637.248 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 3	09.00	61.62	2,512				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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, one kilometer upstream from recorder site (N.2A which continued record at N.2 in year 1962)

Drainage Area: 16,862 sq.km.

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.

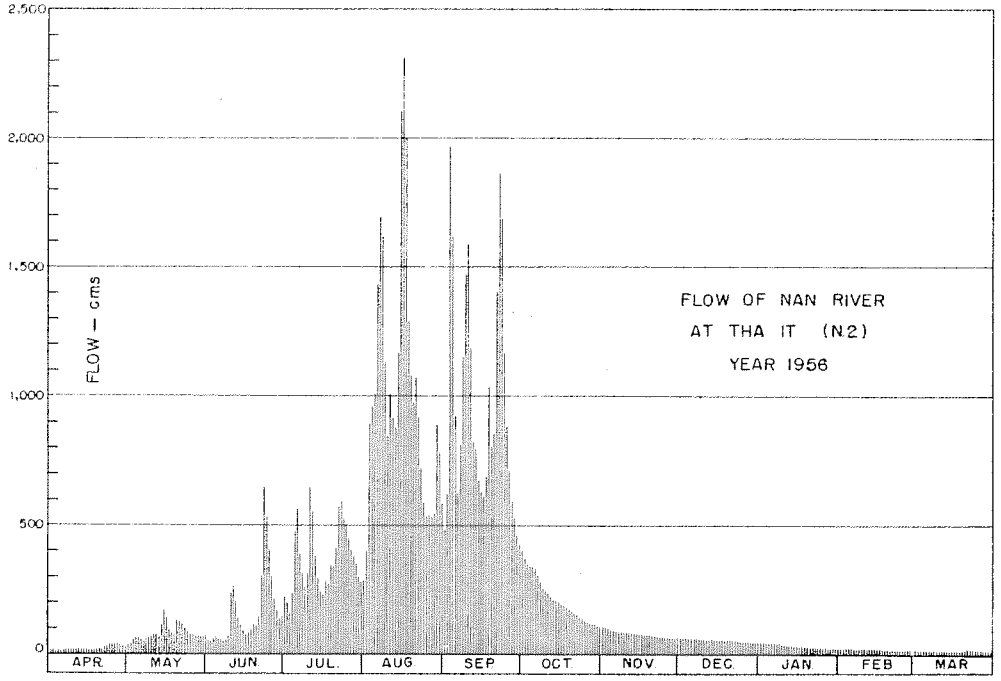
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1954–59. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.00	53.33	53.55	54.81	55.22	56.02	55.66	54.04	53.63	53.47	53.20	53.05
2	.02	.38	.47	.66	.99	.85	.58	.02	.63	.46	.19	.05
3	.02	.59	.61	.38	57.76	60.66	.55	53.98	.64	.46	.19	.04
4	.01	.68	.66	.73	58.03	59.70	.55	.94	.63	.46	.19	.03
5	.00	.68	.55	56.36	.11	57.90	.53	.91	.63	.45	.18	.02
6	53.00	53.56	53.46	56.53	59.39	56.66	55.46	53.90	53.62	53.44	53.18	53.02
7	.03	.47	.41	55.69	60.00	57.61	.35	.88	.62	.43	.17	.03
8	.03	.60	.45	.22	59.80	58.77	.14	.88	.61	.42	.17	.04
9	.01	.64	.51	54.94	58.42	59.52	.05	.87	.60	.41	.17	.04
10	.03	.65	54.91	55.36	57.53	.87	54.99	.85	.59	.39	.16	.05
11	53.05	53.72	55.08	56.87	58.16	58.68	54.90	53.84	53.59	53.36	53.16	53.05
12	.09	.76	54.60	.44	57.83	57.66	.85	.83	.59	.32	.15	.04
13	.07	.67	.19	55.64	.70	.62	.77	.80	.59	.30	.15	.02
14	.06	54.04	53.95	.22	58.85	.10	.78	.80	.59	.29	.14	.01
15	.05	.56	.78	54.90	60.88	.02	.75	.79	.58	.27	.13	.05
16	53.04	54.38	53.66	54.88	61.26	56.93	54.70	53.79	53.58	53.27	53.13	53.04
17	.03	53.97	.78	55.17	60.76	57.27	.66	.78	.57	.26	.12	.05
18	.05	.82	.92	.08	59.09	58.21	.59	.76	.56	.25	.11	.03
19	.06	.73	54.03	.52	58.10	57.62	.53	.75	.56	.25	.11	.04
20	.10	54.24	.01	.50	.04	.42	.49	.72	.55	.25	.11	.07
21	53.07	54.16	54.28	*55.98	58.38	59.09	54.44	53.70	53.54	53.24	53.11	53.10
22	.14	.10	55.40	56.58	57.79	60.18	.39	.68	.52	.24	.10	.14
23	.14	53.90	56.88	.67	.15	59.85	.33	.68	.51	.24	.08	.11
24	.26	.76	.30	.37	56.65	58.55	.28	.67	.51	.24	.08	.09
25	.28	.63	55.65	.27	.38	57.54	.22	.66	.52	.23	.07	.06
26	53.34	53.62	55.09	56.01	56.43	56.94	54.20	53.64	53.51	53.23	53.07	53.04
27	.36	.53	54.67	55.77	.37	.58	.16	.63	.50	.23	.07	.02
28	.30	.54	.39	.67	.22	.31	.12	.63	.49	.22	.06	.02
29	.25	.53	.22	.48	57.79	.07	.08	.64	.48	.22		.01
30	.13	.50	.32	.21	.46	55.94	.05	.65	.48	.21		.04
31		.57		.15	56.54		.05		.48	.21		.04
Mean	53.10	53.75	54.29	55.58	58.00	57.87	54.75	53.79	53.56	53.31	53.13	53.04
Max.	53.36	54.56	56.88	56.87	61.26	60.66	55.66	54.04	53.64	53.47	53.20	53.14
Min.	53.00	53.33	53.41	54.38	55.22	55.94	54.05	53.63	53.48	53.21	53.06	53.01

WATER YEAR 1956 : Max. 61.26 m. Min. 53.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	16	76	54	212	282	438	364	106	61	48	28	19
2	17	80	56	188	452	655	348	102	61	47	27	19
3	17	57	59	147	902	2,027	342	98	62	47	27	18
4	17	62	64	139	986	1,626	342	95	61	47	27	18
5	16	66	94	518	1,011	944	338	89	61	46	27	17
6	16	55	47	959	1,500	590	325	88	60	45	27	17
7	18	48	43	370	1,751	857	305	86	60	44	26	18
8	18	58	46	282	1,666	1,255	287	86	59	44	26	18
9	17	62	51	242	1,122	1,552	251	85	58	43	26	18
10	18	63	228	309	853	1,697	240	83	57	41	26	19
11	19	70	256	644	1,028	1,220	226	82	57	39	26	19
12	21	74	178	558	923	872	218	81	57	36	25	18
13	20	65	123	360	884	860	205	78	57	34	25	17
14	20	105	94	282	1,286	708	207	78	57	33	24	17
15	19	172	76	226	2,125	686	202	77	56	32	24	19
16	18	147	64	223	2,310	660	194	77	57	32	24	18
17	18	96	78	225	2,072	756	188	76	56	32	23	18
18	19	80	90	256	1,381	1,046	177	74	55	31	23	18
19	20	71	105	346	1,008	860	168	73	55	31	23	18
20	22	129	101	332	989	800	163	70	54	31	23	20
21	20	119	154	450	1,108	1,381	156	68	53	30	23	22
22	24	112	314	571	911	1,825	149	66	52	30	22	24
23	24	88	647	595	722	1,689	140	66	51	30	21	23
24	32	74	504	521	588	1,171	134	65	51	30	21	21
25	30	61	362	497	523	836	126	64	52	30	20	20
26	27	66	258	436	535	663	124	62	51	30	20	18
27	29	52	189	386	521	571	119	61	50	30	20	17
28	24	56	149	366	485	506	114	61	49	29	20	17
29	31	52	126	328	911	449	110	62	48	29		17
30	24	50	139	289	812	421	106	65	48	29		18
31		56		269	562		106		48	29		18
Total	648	2,337	4,679	11,161	32,171	29,619	6,464	2,319	1,714	1,109	674	578
Mean	21.0	75.4	156	360	1,038	987	208	77.3	55.2	35.8	24.1	18.6
Max.	32	172	647	644	2,310	2,027	364	106	62	48	28	24
Min.	16	46	43	147	282	421	106	61	48	29	20	17
Runoff - mcm.	55.642	201.917	404.266	964.310	2,779.574	2,559.082	557.626	200.362	148.005	95.818	58.234	49.939

WATER YEAR 1956 : Max. 2,310 Min. 16 Mean 256 Annual Runoff 8,074.858 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 16	09.00	61.32	2,323				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Ban Wang Phaniat, 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: 19,384 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +45.85 m. (M.S.L.)

Bench Mark: B.M. - H.S.

Location: A few meters 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: Stable, no shifting adjustment for flow computation for year without actual ratings.

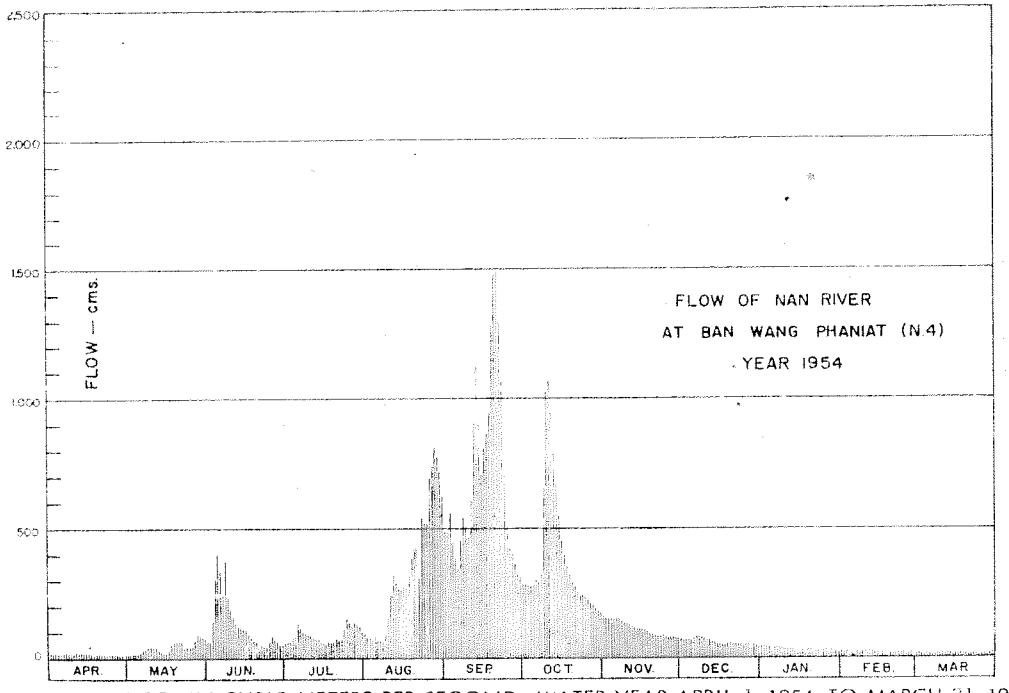
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965 - 67. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.29	45.18	45.63	45.63	45.91	48.22	47.14	46.41	45.75	45.50	45.32	45.23
2	.28	.19	.60	.67	.84	.22	.14	.33	.73	.49	.32	.22
3	.28	.20	46.18	.69	.79	.63	.13	.34	.72	.48	.31	.22
4	.27	.21	47.25	.81	.76	.07	.12	.34	.71	.47	.31	.21
5	.27	.24	.81	.85	.86	47.71	.14	.33	.70	.46	.30	.21
6	45.26	45.32	47.31	46.23	45.70	47.51	47.27	46.32	45.77	45.46	45.30	45.21
7	.26	.39	46.95	.07	.70	48.02	.23	.32	.81	.44	.30	.20
8	.26	.43	47.67	.01	.69	.51	.24	.28	.80	.44	.29	.19
9	.25	.52	46.66	45.93	.90	.39	48.81	.23	.81	.43	.29	.18
10	.25	.50	.58	.89	46.44	.14	50.47	.22	.77	.42	.28	.17
11	45.24	45.48	46.30	45.88	46.87	48.29	50.70	46.14	45.70	45.41	45.28	45.16
12	.24	.44	.19	.80	47.40	50.04	.03	.13	.69	.40	.28	.16
13	.23	.36	.14	.78	.17	.88	49.44	.08	.68	.40	.27	.16
14	.23	.28	.10	.78	.07	49.80	48.97	.06	.66	.39	.27	.15
15	.23	.26	.08	.69	.04	.25	.40	.05	.65	.39	.27	.15
16	45.21	45.29	46.03	45.65	47.13	49.63	47.97	46.04	45.64	45.38	45.26	45.14
17	.21	.39	45.95	.63	.15	.91	.70	.03	.63	.38	.26	.14
18	.21	.57	.77	.72	.35	50.15	.50	45.96	.62	.37	.26	.14
19	.21	.69	.69	.69	.69	51.47	.33	.92	.60	.37	.26	.14
20	.20	.67	.66	.70	.91	52.02	.21	.90	.58	.36	.25	.13
21	45.20	45.69	45.62	45.79	47.94	52.07	47.09	45.87	45.57	45.36	45.25	45.13
22	.20	.65	.57	.72	.33	51.26	.00	.85	.56	.35	.25	.13
23	.20	.43	.55	.77	48.52	49.95	46.94	.85	.56	.35	.25	.12
24	.20	.50	.51	46.04	.37	.02	.90	.84	.56	.35	.24	.12
25	.19	.48	.63	.34	.40	48.33	.86	.83	.55	.35	.24	.12
26	45.19	45.55	45.84	46.26	49.17	47.99	46.78	45.83	45.55	45.35	45.24	45.14
27	.19	.71	.75	.15	.24	.82	.72	.82	.55	.34	.23	.14
28	.19	.89	.64	.24	.73	.59	.67	.80	.54	.34	.23	.16
29	.18	.85	.57	.20	.51	.38	.61	.79	.54	.33		.16
30	.18	.85	.60	.14	.30	.31	.55	.77	.52	.33		.17
31		.74		45.98	48.84		.49		.51	.32		.17
Mean	45.20	45.48	46.13	45.89	47.35	49.05	47.63	46.06	45.65	45.39	45.27	45.16
Max.	45.29	45.89	47.81	46.34	49.73	52.07	50.70	46.41	45.81	45.50	45.32	45.23
Min.	45.18	45.18	45.51	45.63	45.69	47.51	46.49	45.77	45.51	45.32	45.23	45.12

WATER YEAR 1954 : Max. 52.07 m. Min. 45.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	17	62	62	95	486	282	164	96	47	29	21
2	25	17	58	66	87	486	282	152	74	46	29	20
3	25	18	131	69	81	568	280	134	72	45	28	20
4	24	19	301	83	77	450	278	126	71	44	28	19
5	24	22	404	88	89	385	282	122	70	43	27	19
6	23	29	312	138	70	548	305	191	76	43	27	19
7	23	36	250	116	70	446	297	151	85	41	27	18
8	23	40	327	107	69	544	299	145	82	41	26	17
9	22	49	202	98	94	520	606	138	93	40	26	17
10	22	47	191	93	168	470	1,004	127	78	39	25	16
11	22	45	148	92	257	500	1,069	126	70	38	25	15
12	22	41	135	82	328	892	889	124	69	37	25	15
13	21	33	126	80	287	1,121	748	117	68	37	25	14
14	21	25	120	80	270	834	641	114	65	36	24	14
15	21	23	117	69	265	704	522	113	64	36	24	14
16	19	26	110	64	280	795	436	112	65	35	23	14
17	19	36	98	62	283	860	383	110	62	35	23	14
18	19	55	78	72	319	919	346	101	60	34	23	14
19	19	69	69	69	381	1,239	315	96	58	34	23	14
20	18	66	65	70	434	1,481	294	94	56	33	22	13
21	18	69	60	81	450	1,498	273	90	55	33	22	13
22	18	64	55	72	315	1,234	258	88	54	32	22	13
23	18	40	50	78	546	870	248	88	54	32	22	12
24	18	47	48	112	516	652	242	87	53	32	22	12
25	17	45	62	154	522	508	236	86	52	32	22	12
26	17	50	87	142	686	440	223	86	52	32	22	14
27	17	71	76	127	725	406	215	84	52	31	21	14
28	17	93	65	140	817	362	205	82	51	31	21	15
29	17	88	55	134	764	324	196	81	51	30		15
30	17	88	58	126	716	312	186	78	49	30		16
31		75		104	613		176		48	29		16
Total	612	1,443	5,966	2,930	10,624	20,718	12,014	3,455	1,974	1,128	682	479
Mean	20.4	46.5	132	94.5	343	691	387	115	63.7	36.4	24.4	15.4
Max.	26	93	404	154	817	1,498	1,064	164	83	47	29	21
Min.	17	17	48	62	69	312	176	78	48	29	21	12
Runoff - mcm.	52.877	124.675	342.662	253.152	917.914	1,790.035	1,038.010	298.512	170.554	97.459	58.925	41.385

WATER YEAR 1954 : Max. 1,498 Min. 12 Mean 164 Annual Runoff 5,186.160 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	06.00	52.25	1,561				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Ban Wang Phaniat, 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: 19,384 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +43.85 m. (M.S.L.)

Bench Mark: B.M. - H.S.

Location: A few meters 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: Stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

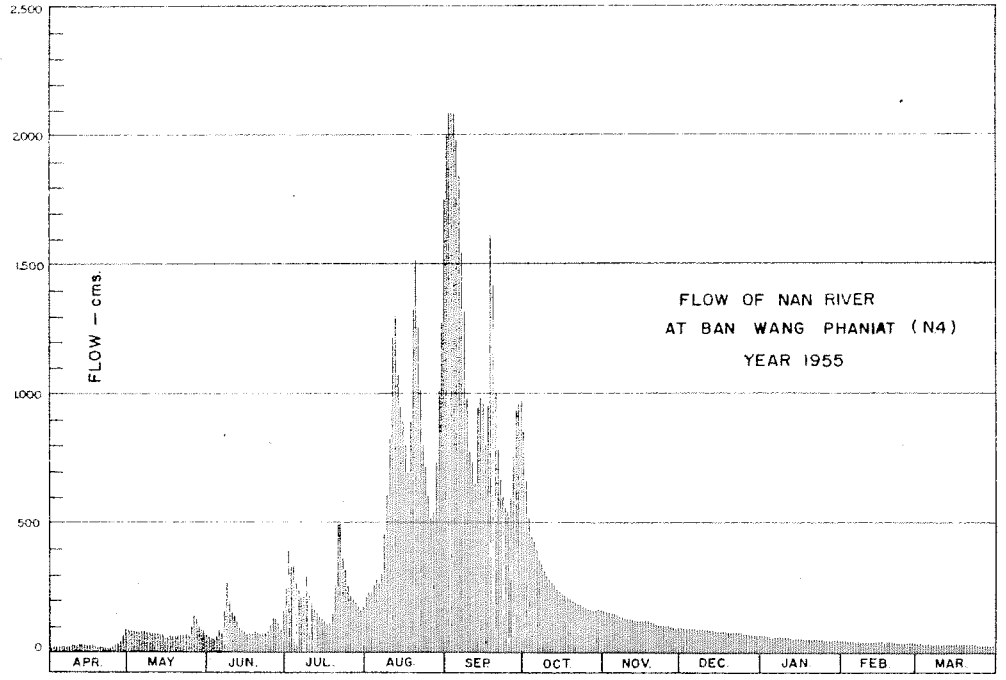
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965 - 67. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.18	45.80	45.59	46.79	46.72	53.30	49.95	46.38	45.88	45.63	45.44	45.34
2	.18	.79	.54	47.78	.87	.63	.02	.33	.87	.62	.44	.34
3	.20	.79	.55	.37	.84	.64	48.38	.33	.87	.62	.43	.33
4	.20	.76	.66	.44	47.03	.61	.02	.32	.87	.61	.43	.33
5	.20	.77	.83	.01	6	.44	47.94	.30	.86	.60	.42	.32
6	45.19	45.78	45.78	46.88	47.02	52.86	47.79	46.26	45.86	45.59	45.42	45.31
7	.19	.77	46.19	.68	.13	.10	.60	.22	.84	.58	.42	.31
8	.19	.75	47.05	.72	48.11	51.01	.45	.20	.83	.57	.42	.31
9	.24	.74	46.50	47.20	.65	50.09	.34	.17	.82	.56	.42	.30
10	.25	.73	.33	46.96	49.42	49.57	.20	.15	.81	.55	.42	.30
11	45.27	45.71	46.20	46.64	51.11	49.33	47.12	46.19	45.80	45.54	45.42	45.30
12	.30	.70	.02	.43	.48	.40	.05	.13	.79	.53	.42	.29
13	.30	.68	45.87	.32	50.72	50.24	46.97	.11	.78	.53	.42	.29
14	.26	.67	.81	.22	.31	.39	.89	.10	.78	.53	.41	.29
15	.26	.49	.72	.16	.01	.15	.85	.10	.77	.52	.41	.29
16	45.26	45.54	45.70	46.12	49.64	49.67	46.77	46.10	45.76	45.52	45.41	45.28
17	.25	.63	.72	.07	.20	50.24	.74	.08	.75	.51	.40	.28
18	.19	.62	.76	.06	.64	52.41	.70	.08	.74	.51	.40	.28
19	.18	.66	.78	.25	51.48	51.77	.67	.07	.73	.51	.39	.28
20	.18	.67	.71	.97	52.13	50.62	.61	.02	.72	.50	.39	.27
21	45.17	45.68	45.70	48.28	51.30	49.68	46.59	46.00	45.72	45.50	45.38	45.27
22	.16	.68	.72	.28	50.58	.08	.55	45.99	.71	.49	.38	.27
23	.15	.65	.73	47.64	49.60	48.84	.53	.98	.71	.49	.37	.27
24	.20	.65	.73	.27	.29	.61	.50	.97	.70	.48	.37	.26
25	.23	.81	.98	.02	48.78	.49	.46	.96	.69	.47	.36	.26
26	45.25	46.27	46.18	46.79	48.39	48.64	46.42	45.95	45.68	45.47	45.36	45.26
27	.32	.17	.16	.65	.50	49.26	.40	.93	.67	.46	.35	.25
28	.44	45.95	45.97	.59	49.12	50.17	.39	.91	.66	.46	.35	.25
29	.70	.80	46.22	.49	.96	.29	.44	.90	.65	.45	.34	.25
30	.80	.82	.38	.44	51.15	.35	.43	.89	.64	.45		.25
31		.68		.48	52.68		.42		.63	.44		.24
Mean	45.26	45.75	45.94	46.84	49.35	50.70	47.10	46.10	45.76	45.52	45.40	45.29
Max.	45.80	46.27	47.05	48.28	52.68	53.64	49.95	46.38	45.88	45.63	45.44	45.34
Min.	45.15	45.49	45.54	46.06	46.72	48.49	46.39	45.89	45.63	45.44	45.34	45.24

WATER YEAR 1955 : Max. 53.64 m. Min. 45.15 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	82	57	224	215	1,950	870	159	92	62	41	31
2	17	81	51	398	237	2,082	652	142	96	60	41	31
3	18	81	52	525	252	2,086	518	132	98	60	40	30
4	18	77	65	335	268	2,074	446	131	90	59	40	30
5	18	78	86	266	289	2,005	430	118	89	58	39	29
6	17	80	80	259	301	1,775	400	112	89	57	39	28
7	17	78	135	207	326	1,599	364	107	87	56	39	28
8	17	76	206	213	464	1,159	317	104	86	55	39	28
9	22	75	178	292	572	804	317	100	84	54	39	27
10	22	74	152	252	744	773	349	127	83	52	39	27
11	24	71	134	200	1,189	725	329	127	82	51	39	27
12	27	70	109	167	1,582	759	286	125	81	50	39	26
13	27	68	90	151	1,675	842	258	121	80	50	39	26
14	25	66	83	137	961	952	240	116	80	50	38	26
15	23	46	72	128	884	919	234	120	78	49	38	26
16	23	51	70	123	796	803	221	120	77	49	36	25
17	22	62	72	116	695	942	216	117	76	48	37	25
18	17	60	77	114	796	1,617	219	112	75	48	37	25
19	17	65	80	141	1,302	1,595	205	116	74	48	36	25
20	17	66	71	253	1,519	1,046	196	109	72	47	36	24
21	16	68	70	498	1,246	805	192	106	72	47	35	24
22	15	68	72	498	1,054	666	186	105	71	46	35	24
23	14	64	74	372	786	613	183	104	71	45	34	24
24	18	64	74	305	714	564	178	102	70	45	34	23
25	21	83	104	261	609	540	172	101	69	44	33	23
26	22	144	131	224	520	570	165	100	68	44	33	23
27	29	130	128	202	542	707	162	96	66	43	32	22
28	41	100	102	192	675	924	161	95	65	43	32	22
29	70	82	137	176	872	955	168	94	64	42	31	22
30	82	84	159	168	1,201	971	167	93	63	42		22
31		68		175	1,713		165		62	41		22
Total	731	2,362	3,029	7,344	23,921	33,737	8,814	3,621	2,396	1,516	1,072	795
Mean	24.4	76.2	101	237	773	1,124	285	121	77.3	49.0	37.0	25.6
Max.	82	144	266	498	1,713	2,086	870	159	92	62	41	31
Min.	14	46	51	114	213	540	161	93	62	41	31	22
Runoff - mcm.	63.158	204.077	261.706	634.522	2,071.094	2,914.877	764.122	312.854	207.014	130.934	92.621	68.688

WATER YEAR 1955 : Max. 2,086 Min. 14 Mean 244 Annual Runoff 7,728.307 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 2	12.00	53.67	2,099				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Ban Wang Phaniat, 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: 19,384 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +43.85 m. (M.S.L.)

Bench Mark: B.M. - H.S.

Location: A few meters north of Phichai railway station.
Elevation: +55.327 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 Regimen: Stable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

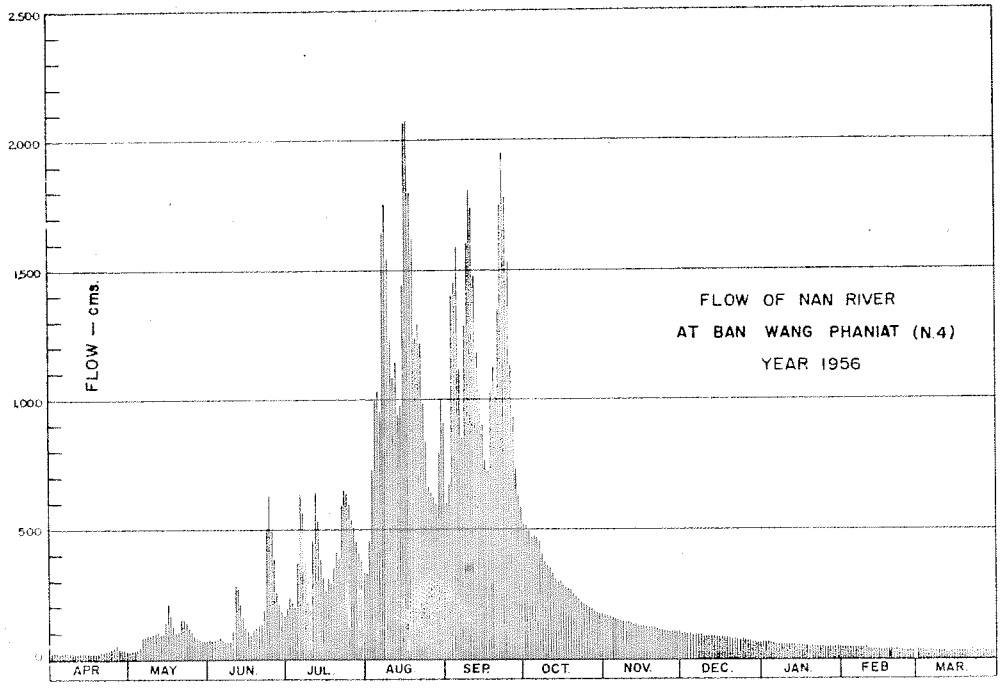
General Description: Records good. Stage - discharge relation used is defined by discharge measurement made during 1965 - 67. No state diversions for irrigation above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.24	45.35	45.75	46.63	47.43	48.76	48.38	46.45	45.95	45.66	45.49	45.36
2	.24	.36	.75	.87	.83	.92	.35	.44	.94	.65	.49	.36
3	.24	.37	.74	.72	49.28	51.73	.32	.41	.93	.64	.48	.35
4	.24	.40	.75	.61	50.44	53.28	.12	.36	.92	.63	.48	.35
5	.24	.45	.80	47.46	.57	52.33	.16	.33	.91	.62	.47	.35
6	45.24	45.81	45.72	48.96	50.26	50.75	48.14	46.31	45.90	45.61	45.46	45.34
7	.25	.84	.67	.65	52.37	49.90	47.93	.31	.89	.60	.45	.34
8	.25	.87	.65	47.76	.79	51.01	.75	.28	.88	.60	.45	.33
9	.26	.88	.65	.26	.23	52.16	.63	.26	.87	.59	.44	.33
10	.26	.92	.85	.41	51.01	.92	.59	.26	.86	.59	.44	.33
11	45.27	45.95	47.16	48.41	50.74	52.67	47.52	46.24	45.85	45.58	45.43	45.32
12	.27	.97	.11	.99	.92	51.74	.39	.22	.84	.56	.42	.32
13	.27	.89	46.67	.39	.21	50.96	.29	.19	.83	.57	.41	.32
14	.27	.94	.35	47.73	.39	.40	.21	.17	.82	.56	.41	.31
15	.26	46.36	.10	.30	52.72	49.92	.22	.15	.81	.55	.41	.31
16	45.26	46.72	45.96	47.04	53.56	49.45	47.15	46.14	45.80	45.55	45.40	45.31
17	.26	.41	.88	.30	.60	.33	.09	.13	.79	.54	.40	.31
18	.27	.15	.99	.23	.18	50.54	.07	.12	.78	.54	.40	.32
19	.29	45.95	46.14	.49	52.09	.91	.02	.11	.77	.53	.40	.33
20	.30	46.00	.20	.88	51.27	.50	46.94	.10	.76	.53	.39	.34
21	45.33	46.36	46.23	47.75	51.45	51.22	46.87	46.09	45.75	45.53	45.39	45.35
22	.34	.33	.37	47.73	.18	52.66	.82	.05	.74	.52	.39	.38
23	.36	.25	48.21	49.05	50.29	55.30	.77	.04	.74	.52	.38	.39
24	.39	.06	.93	48.97	49.68	52.74	.71	.02	.73	.51	.38	.37
25	.44	45.93	.23	.74	.11	51.69	.66	.01	.72	.51	.38	.36
26	45.49	45.85	47.67	48.53	48.93	50.62	46.61	46.00	45.71	45.51	45.37	45.35
27	.46	.80	.03	.24	.87	49.82	.59	45.99	.70	.51	.37	.34
28	.43	.75	46.75	.01	.77	.22	.54	.98	.69	.50	.36	.33
29	.38	.74	.52	47.90	.75	48.90	.50	.97	.68	.50		.32
30	.37	.73	.43	.67	50.46	.69	.48	.96	.67	.50		.31
31		.71		.44	.10		.46		.66	.49		.30
Mean	45.30	45.91	46.44	47.84	50.59	50.90	47.26	46.17	45.80	45.56	45.42	45.34
Max.	45.49	46.72	48.93	49.05	53.60	53.30	48.38	46.45	45.95	45.66	45.49	45.39
Min.	45.24	45.35	45.65	46.61	47.43	48.69	46.46	45.96	45.66	45.49	45.36	45.30

WATER YEAR 1956 : Max. 53.60 m. Min. 45.24 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	32	76	199	333	595	518	170	100	65	46	33
2	22	33	76	237	408	630	508	168	99	64	46	33
3	22	34	75	213	711	1,382	486	164	98	63	45	32
4	22	37	76	196	996	1,942	466	156	96	62	45	32
5	22	46	82	339	1,032	1,589	474	152	95	60	44	32
6	22	83	72	639	948	1,083	470	149	94	59	43	31
7	22	87	66	572	1,605	858	428	149	93	58	42	31
8	22	90	64	394	1,754	1,159	369	145	92	58	42	30
9	23	92	64	303	1,554	1,550	370	142	90	57	41	30
10	23	96	88	330	1,159	1,804	362	142	89	57	41	30
11	24	100	265	524	1,081	1,709	350	140	88	56	40	29
12	24	102	277	646	1,133	1,585	326	137	87	56	39	29
13	24	93	205	520	935	1,127	308	133	86	55	38	29
14	24	99	155	389	982	985	294	130	84	54	38	28
15	23	156	120	310	1,728	865	298	127	83	52	38	28
16	23	213	101	265	2,054	750	283	126	82	52	37	28
17	23	164	92	310	2,070	723	275	124	81	51	37	28
18	24	124	105	296	1,903	1,023	270	123	80	51	37	29
19	26	100	126	344	1,505	1,130	261	121	78	50	37	30
20	27	106	134	418	1,237	1,012	248	120	77	50	36	31
21	30	156	138	392	1,292	1,222	237	119	76	50	36	32
22	31	152	152	589	1,210	1,706	229	113	75	49	36	35
23	33	141	484	655	955	1,950	221	112	75	49	35	36
24	36	114	633	641	805	1,735	212	109	74	48	35	34
25	41	98	488	591	672	1,369	204	107	72	48	35	33
26	46	88	327	548	633	1,046	198	106	71	48	34	32
27	43	82	263	490	619	839	192	105	70	48	34	31
28	40	76	218	444	597	698	184	104	69	47	33	30
29	35	75	181	422	593	626	178	102	68	47	.	29
30	34	74	167	377	1,001	580	175	101	66	47		28
31		71		335	906		172		65	46		27
Total	833	3,014	5,446	12,928	34,409	35,050	9,580	3,896	2,553	1,657	1,090	950
Mean	27.8	97.2	181	417	1,110	1,168	309	130	82.3	53.4	38.9	30.6
Max.	46	213	633	655	2,070	1,950	518	170	100	65	46	36
Min.	22	32	64	196	333	580	172	101	65	46	33	27
Runoff — MCM.	71.971	260.410	470.534	1,116.979	2,972.938	3,028.320	827.712	336.615	220.579	143.165	94.176	82.080

WATER YEAR 1956 : Max. 2,070 Min. 22 Mean 305 Annual Runoff 9,625.487 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 17	06.00	53.63	2,082				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Ban wat Chan (N.5)

Location: Lat 16° – 46' – 35" N, Long 100° – 15' – 37" E, 50 meters downstream from Ice Factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,294 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. 1506

Location: On left bank along 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: 1950 to date

Rating Operation:

Period of Rating: 1953 – 56
Rated by Float: –
Rated by Current Meter: 1953 – 56

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

Overbank Flow Conditions: No overbank flow.

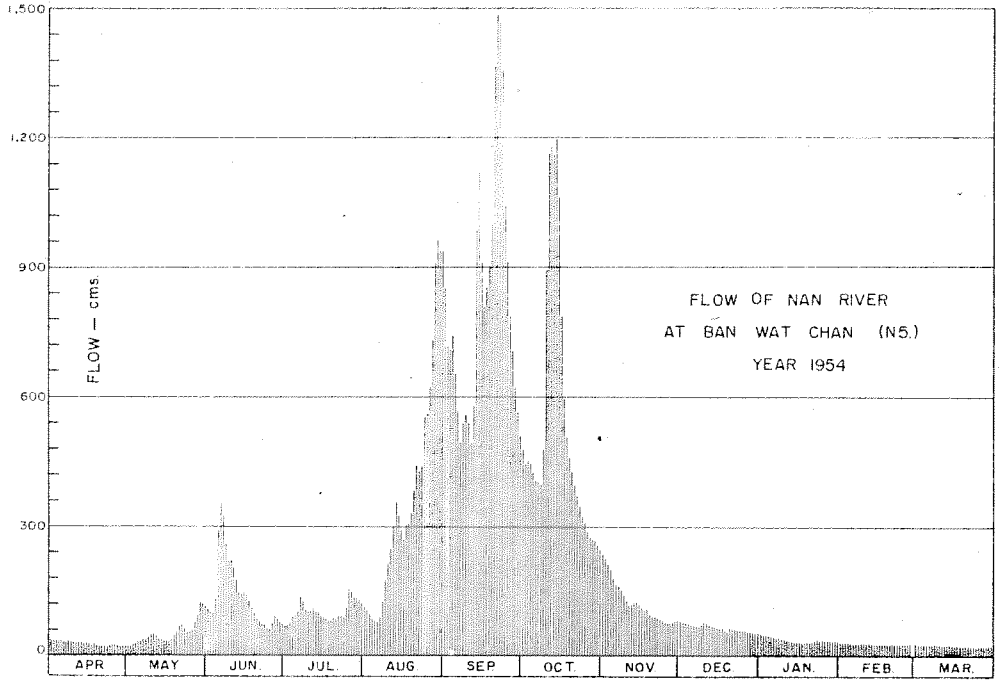
General Description: Records good. Stage – discharge relation used is defined by discharge-measurements made during 1954. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35.03	34.71	36.13	35.58	36.12	41.17	39.68	37.53	35.90	35.37	35.04	34.88
2	34.99	.74	.09	.60	.01	40.54	.47	.41	.88	.37	.03	.87
3	.95	.80	.06	.68	35.95	.54	.50	.30	.85	.36	.03	.86
4	.93	.88	.28	.76	.93	.78	.46	.19	.83	.35	.02	.85
5	.91	.93	37.71	.89	.81	.32	.27	.06	.81	.33	.01	.84
6	34.89	34.95	38.55	36.07	35.74	39.72	39.33	36.98	35.79	35.30	35.00	34.83
7	.88	35.03	.40	.40	.86	.23	.34	.94	.77	.28	34.99	.82
8	.88	.09	37.76	.37	36.22	.64	.23	.89	.77	.28	.98	.81
9	.86	.17	.38	.20	.74	40.11	.80	.82	.82	.26	.97	.79
10	.85	.33	.35	.10	37.08	39.99	41.91	.71	.87	.24	.97	.78
11	34.83	35.33	37.18	36.08	37.39	39.62	43.38	36.63	35.83	35.21	34.96	34.78
12	.82	.24	36.84	.12	.78	40.35	.47	.57	.77	.20	.95	.77
13	.81	.14	.58	.06	38.26	42.65	.34	.52	.73	.19	.94	.76
14	.80	.66	.53	.00	.10	.93	.53	.47	.70	.18	.93	.75
15	.80	.03	.56	35.95	37.83	.17	42.91	.44	.67	.17	.93	.74
16	34.79	35.00	36.52	35.92	37.61	41.86	41.31	36.39	35.64	35.16	34.92	34.73
17	.78	.01	.33	.80	.77	42.08	40.99	.35	.61	.15	.92	.73
18	.77	.11	.18	.74	.89	.33	.09	.32	.60	.15	.92	.72
19	.75	.29	.02	.79	38.13	.80	39.72	.28	.58	.14	.91	.72
20	.75	.51	35.90	.80	.52	44.18	.42	.25	.57	.14	.91	.71
21	34.74	35.62	35.82	35.80	38.87	44.58	39.13	36.21	35.55	35.13	34.92	34.71
22	.73	.61	.71	.90	.91	.53	38.90	.16	.53	.12	.92	.70
23	.73	.54	.61	.93	.96	.01	.73	.13	.51	.11	.91	.70
24	.77	.42	.52	.88	39.60	43.27	.58	.10	.50	.10	.89	.69
25	.82	.40	.53	36.18	.79	42.47	.43	.06	.50	.10	.88	.69
26	34.81	35.51	35.65	36.65	40.10	41.80	38.27	36.03	35.48	35.09	34.88	34.68
27	.79	.77	.86	.62	.62	.22	.08	.00	.46	.08	.88	.68
28	.77	36.12	.82	.43	41.27	40.70	.02	35.98	.44	.07	.88	.70
29	.74	.41	.72	.46	.86	.29	37.95	.95	.43	.06		.71
30	.72	.31	.65	.40	.98	39.97	.80	.93	.42	.06		.71
31		.22		.30	.75		.67		.41	.05		.70
Mean	34.82	35.33	36.08	36.05	38.21	41.53	39.88	36.52	35.65	35.18	34.95	34.75
Max.	35.03	36.41	38.55	36.65	41.98	44.58	43.53	37.53	35.90	35.37	35.04	34.88
Min.	34.72	34.71	35.52	35.58	35.74	39.23	37.67	35.93	35.41	35.05	34.88	34.68

WATER YEAR 1954 : Max. 44.58 m. Min. 34.68 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35	28	109	68	111	816	474	236	80	50	33	28
2	35	22	100	72	104	787	440	225	78	50	32	27
3	34	26	99	77	98	787	450	213	76	49	32	27
4	33	29	127	90	84	741	444	198	74	48	31	27
5	33	32	285	92	81	652	416	178	72	46	30	26
6	31	32	314	112	79	560	401	166	71	44	29	26
7	29	38	325	141	90	488	402	160	69	42	29	26
8	33	36	258	126	117	540	388	154	69	42	29	26
9	31	42	216	115	173	558	424	144	73	41	30	25
10	29	49	221	101	212	540	879	129	79	39	30	25
11	27	48	201	103	248	486	1,160	118	76	36	30	25
12	30	43	169	109	299	566	1,179	120	72	36	30	24
13	29	39	146	99	357	961	1,152	123	69	35	30	24
14	28	36	142	102	327	1,016	1,192	125	68	34	29	24
15	29	34	148	90	295	870	1,064	119	66	33	29	23
16	27	33	139	90	267	806	756	110	64	32	29	23
17	24	33	125	84	301	851	588	104	63	31	29	23
18	26	40	112	79	308	826	499	100	60	31	29	23
19	24	49	96	82	327	1,015	457	92	54	33	29	23
20	22	58	86	88	379	1,084	423	91	55	33	29	22
21	22	69	80	84	439	1,480	393	90	62	35	29	22
22	21	71	74	92	427	1,463	369	88	62	36	29	22
23	20	62	72	92	437	1,309	345	85	61	38	29	22
24	24	53	64	89	591	1,014	326	81	60	38	28	21
25	26	56	60	113	557	881	307	76	60	39	28	21
26	24	60	73	156	609	777	287	76	58	36	28	19
27	22	80	92	149	735	694	272	77	57	36	28	19
28	21	111	85	132	898	625	268	78	56	35	28	22
29	20	125	77	133	961	563	264	80	55	34		23
30	21	121	74	127	936	515	254	82	54	34		23
31		117		125	934		246		54	33		22
Total	808	1,664	4,209	3,210	11,739	24,492	16,542	3,726	2,028	1,178	825	733
Mean	26.9	55.7	140	103	379	816	534	124	65.7	38.0	29.5	23.6
Max.	35	125	354	156	961	1,480	1,192	236	80	50	33	28
Min.	20	20	60	68	79	486	246	76	54	31	28	19
Runoff — mcm.	69.811	143.770	363.658	277.344	1,014.250	2,116.109	1,429.229	321.926	176.083	101.779	71.280	63.331

WATER YEAR 1954 : Max. 1,480 Min. 19 Mean 194 Annual Runoff 6,148.570 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 21	19.00	44.65	1,497				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Ban Wat Chan (N.5)

Location: Lat 16°- 48' - 35" N, Long 100°- 15' - 37" E, 50 meters downstream from Ice Factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,294 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. 1506

Location: On left bank along 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: 1950 to date

Rating Operation:

Period of Rating: 1953 - 56
Rated by Float: -
Rated by Current Meter: 1953 - 56

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

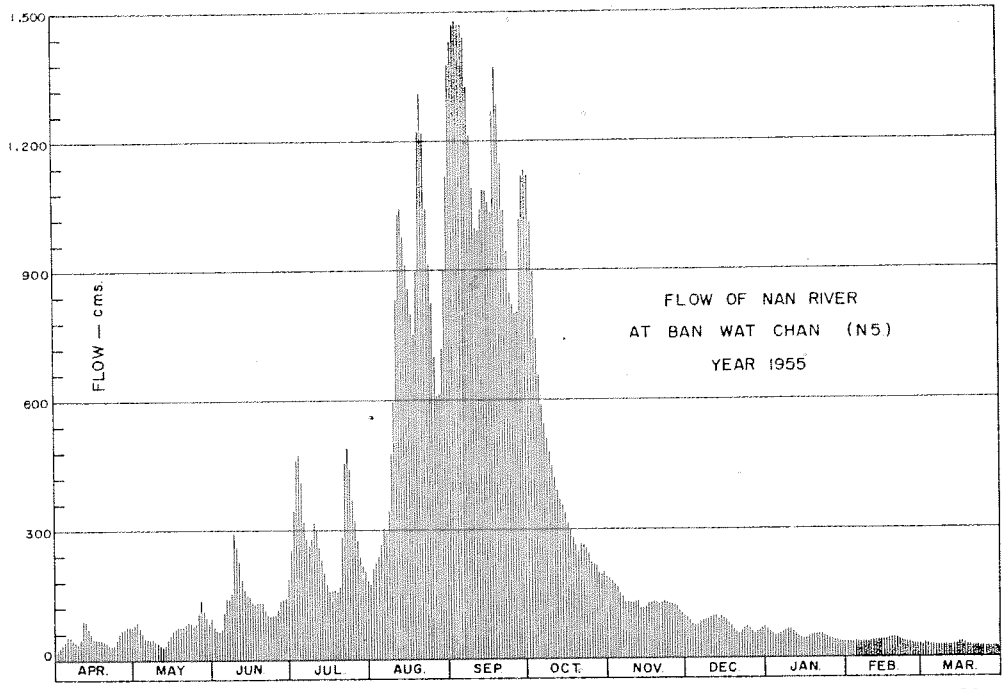
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.77	35.75	35.62	37.02	36.94	44.59	43.37	37.04	35.87	35.49	35.10	34.97
2	.84	.78	.54	.79	37.33	.75	42.89	36.92	.85	.48	.09	.96
3	.94	.58	.54	38.91	.41	.79	.08	.82	.84	.47	.08	.95
4	35.13	.39	.59	39.03	.51	.75	41.34	.72	.80	.46	.07	.93
5	.30	.25	36.12	38.47	.71	.71	40.81	.69	.80	.45	.07	.92
6	35.24	35.14	36.50	37.80	37.88	44.69	40.47	36.62	35.79	35.44	35.06	34.91
7	.12	.08	.46	.58	.74	.59	.21	.56	.78	.43	.05	.89
8	.04	.06	.60	.42	.92	.23	39.88	.50	.75	.41	.04	.88
9	34.94	.03	37.81	.51	39.08	43.77	.67	.45	.74	.40	.03	.87
10	.95	.01	.58	.88	.96	.26	.36	.41	.73	.39	.04	.86
11	34.95	34.98	37.27	37.68	41.66	42.79	39.13	36.41	35.71	35.38	35.06	34.85
12	35.07	.94	36.83	.27	43.09	.82	38.90	.39	.70	.37	.07	.88
13	.24	35.05	.59	.00	.21	43.15	.75	.35	.69	.36	.11	.91
14	.29	.33	.43	36.76	42.77	.42	.59	.31	.68	.35	.12	.93
15	.18	.58	.37	.59	.54	.45	.45	.29	.67	.34	.14	.93
16	35.06	35.61	36.22	36.48	42.20	43.23	38.30	36.28	35.66	35.33	35.16	35.00
17	34.96	.65	.11	.40	41.94	42.98	.17	.26	.65	.31	.20	34.94
18	.89	.78	.17	.36	.79	44.01	.06	.21	.63	.30	.20	.90
19	.84	.81	.22	.38	42.75	.49	37.98	.17	.61	.28	.17	.86
20	.79	.82	.25	.61	44.14	.09	.88	.11	.59	.27	.15	.81
21	34.78	35.82	36.05	37.74	44.40	43.57	37.79	36.11	35.57	35.26	35.13	34.80
22	.81	.87	35.93	39.12	43.93	42.95	.68	.09	.56	.23	.09	.83
23	.81	.80	.89	.34	.07	.40	.58	.05	.54	.21	.06	.82
24	.84	.69	.90	38.81	42.42	41.90	.49	.02	.53	.19	.04	.81
25	35.05	.76	.88	.29	.03	.69	.40	.01	.52	.17	.03	.81
26	35.18	36.06	35.99	37.84	41.45	41.35	37.31	35.99	35.51	35.19	35.01	34.80
27	.40	.33	36.18	.49	40.82	.62	.23	.95	.50	.15	34.98	.80
28	.40	.33	.18	.25	.80	42.80	.15	.93	.48	.14	.98	.79
29	.41	.05	.25	.20	41.50	43.32	.22	.91	.46	.13	.97	.78
30	.54	35.87	.56	.10	42.42	.42	.19	.89	.46	.12		.78
31		.73		36.94	43.66		.15		.44	.12		.71
Mean	35.06	35.58	36.29	37.55	41.03	43.45	38.89	36.31	35.65	35.31	35.08	34.87
Max.	35.54	36.33	37.81	39.34	44.40	44.79	43.37	37.04	35.70	35.49	35.20	35.00
Min.	34.77	34.94	35.54	36.36	36.94	41.35	37.15	35.89	35.87	35.12	34.97	34.71

WATER YEAR 1955 : Max. 44.79 m. Min. 34.71 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	87	72	232	175	1,364	1,119	185	92	66	35	26
2	24	88	66	322	209	1,435	1,009	178	86	59	35	31
3	30	71	65	458	223	1,468	870	173	77	54	34	29
4	41	57	68	421	239	1,477	731	163	72	49	35	29
5	52	47	109	392	267	1,468	644	150	78	53	35	27
6	50	46	139	306	302	1,468	575	144	81	56	35	26
7	42	44	138	278	295	1,448	529	128	84	59	35	25
8	38	44	155	261	319	1,354	502	129	86	61	35	26
9	35	41	285	274	456	1,205	477	129	89	64	35	26
10	33	38	258	318	566	1,087	439	129	92	66	36	26
11	30	32	226	299	802	990	412	129	95	59	37	24
12	36	28	182	255	1,029	990	398	132	98	54	37	26
13	45	32	161	226	1,043	1,042	367	111	87	50	39	27
14	47	45	147	193	955	1,085	354	116	96	46	39	29
15	39	58	142	168	908	1,085	335	119	92	42	39	32
16	35	68	132	157	858	1,058	306	127	87	45	41	34
17	30	68	125	157	784	1,020	297	129	82	47	44	30
18	27	76	130	161	749	1,242	278	129	76	50	45	28
19	25	76	132	157	919	1,370	263	130	68	52	44	25
20	20	74	132	169	1,205	1,247	245	125	59	53	43	22
21	22	80	112	284	1,309	1,135	264	129	54	54	41	22
22	22	86	101	456	1,203	1,018	263	132	61	54	38	22
23	22	85	100	488	1,008	925	257	129	66	50	36	22
24	23	76	102	425	889	851	243	126	73	45	34	22
25	35	84	102	354	820	821	222	125	68	43	33	22
26	42	112	115	319	703	776	218	123	61	43	31	22
27	58	138	134	267	601	805	204	120	54	39	29	22
28	59	138	137	231	614	1,018	191	109	59	38	30	22
29	60	111	141	219	755	1,115	193	103	61	36	30	21
30	71	94	181	201	881	1,131	200	97	68	35		21
31		81		180	1,119		184		70	35		21
Total	1,112	2,203	4,085	8,678	22,161	34,476	12,581	3,948	2,372	1,557	1,061	787
Mean	37.1	71.1	136	280	715	1,149	406	132	76.5	50.2	36.6	25.4
Max.	71	138	283	488	1,309	1,477	1,119	185	98	66	45	34
Min.	20	28	65	157	175	776	184	97	54	35	29	21
Runoff - mcm.	96.077	190.339	352.944	749.779	1,914.797	2,978.726	1,086.998	341.107	204.941	134.525	91.670	67.997

WATER YEAR 1955 : Max. 1,477 Min. 20 Mean 260 Annual Runoff 8,209.814 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 3	18.00	44.79	1,477				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Ban Wat Chan (N.5)

Location: Lat 16°- 48' - 35" N, Long 100°- 15' - 37" E, 50 meters downstream from Ice Factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,294 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +34.00 m. (M.S.L.)

Bench Mark: B.M. - R.I.D.1506

Location: On left bank along 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: 1950 to date

Rating Operation:

Period of Rating: 1953 - 56
Rated by Float: -
Rated by Current Meter: 1953 - 56

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

Overbank Flow Conditions: No overbank flow.

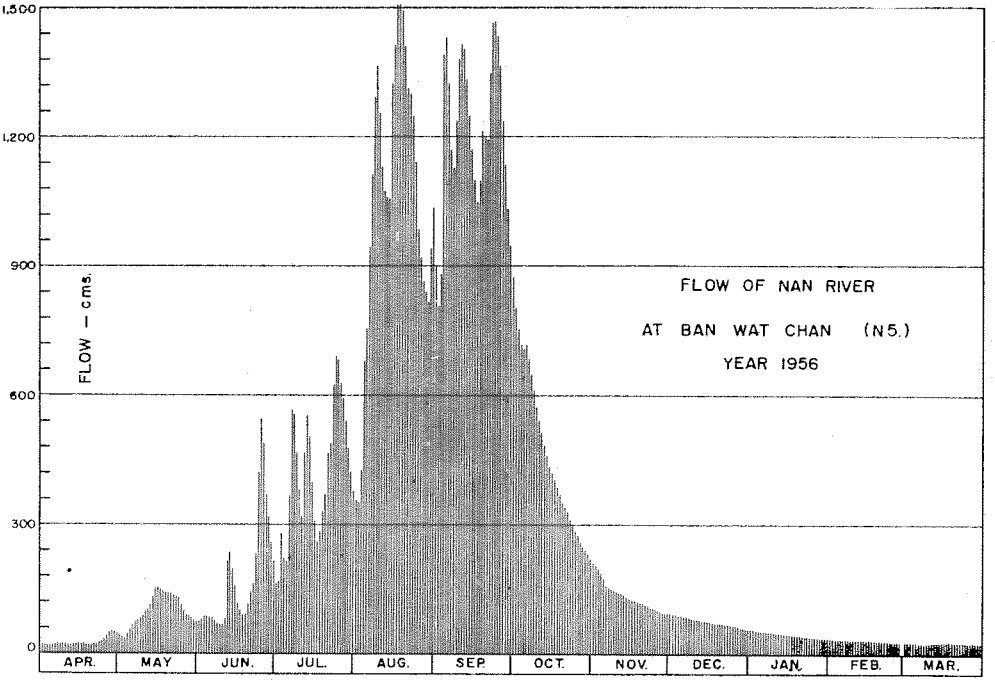
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.76	35.26	35.68	36.72	38.62	41.84	42.30	37.28	35.97	35.46	35.10	34.93
2	.76	.12	.76	.91	.59	.71	41.96	.20	.96	.45	.09	.92
3	.75	.10	.86	37.95	39.29	42.36	.62	.12	.94	.44	.08	.91
4	.75	.30	.87	.26	41.12	44.62	.37	.00	.93	.42	.07	.90
5	.74	.49	.83	.34	42.21	.84	.22	36.85	.92	.41	.06	.89
6	34.81	35.64	35.84	38.77	42.57	44.41	41.16	36.75	35.90	35.40	35.05	34.88
7	.84	.72	.73	40.32	43.64	43.64	40.96	.75	.89	.39	.05	.87
8	.81	.77	.61	.21	44.22	.61	.68	.70	.88	.37	.05	.86
9	.79	.82	.59	39.36	.55	44.26	.39	.65	.86	.36	.04	.88
10	.79	.87	.59	38.45	.14	.71	.12	.62	.83	.34	.04	.89
11	34.77	35.97	35.80	38.26	43.38	44.80	39.97	36.60	35.82	35.32	35.04	34.90
12	.77	36.09	37.31	39.60	.26	.75	.84	.56	.80	.31	.04	.91
13	.78	.24	.51	40.21	.15	.35	.59	.52	.78	.30	.03	.92
14	.81	.48	.07	39.62	.19	.05	.37	.48	.76	.29	.03	.93
15	.83	.69	36.61	38.74	44.40	43.68	.17	.43	.75	.28	.02	.94
16	34.82	36.66	36.27	38.15	44.79	43.38	39.10	36.39	35.73	35.27	35.02	34.95
17	.81	.63	.04	37.23	45.03	.22	38.97	.37	.71	.26	.02	.96
18	.80	.57	35.88	38.01	.06	.55	.82	.35	.69	.25	.01	.97
19	.78	.53	.94	.40	44.98	44.05	.72	.33	.68	.24	.01	.93
20	.78	.53	36.32	.76	.62	43.99	.54	.30	.67	.23	.01	.91
21	34.79	36.51	36.59	39.54	44.29	43.96	38.42	36.26	35.65	35.22	35.00	34.90
22	.83	.48	.75	.75	.25	44.67	.32	.22	.63	.21	.00	.90
23	.90	.44	37.26	40.64	43.99	45.00	.17	.18	.61	.20	34.99	.90
24	.96	.39	39.39	41.14	.55	.00	.07	.15	.60	.19	.98	.89
25	35.07	.20	40.14	40.90	42.70	44.87	37.95	.11	.58	.17	.97	.89
26	35.19	35.98	39.58	40.62	42.37	44.52	37.85	36.08	35.56	35.16	34.96	34.89
27	.39	.88	38.70	.45	.04	.10	.72	.05	.54	.15	.95	.88
28	.42	.85	.10	39.93	41.96	43.62	.63	.02	.53	.14	.94	.88
29	.38	.77	37.59	.44	.79	.12	.55	.00	.51	.13		.88
30	.33	.68	.22	.16	42.51	42.70	.46	35.99	.49	.12		.88
31		.64		38.82	43.00		.36		.47	.11		.88
Mean	34.90	36.00	36.78	39.10	43.01	43.91	39.37	36.48	35.73	35.28	35.02	34.90
Max.	35.42	36.69	40.14	41.14	45.06	45.00	42.30	37.28	35.97	35.46	35.10	34.97
Min.	34.74	35.10	35.59	36.72	38.59	41.71	37.36	35.99	35.47	35.11	34.94	34.86

WATER YEAR 1956 : Max. 45.06 m. Min. 34.74 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	44	75	155	356	822	849	210	93	56	35	27
2	19	36	80	174	352	801	788	202	92	55	35	26
3	19	35	88	280	435	905	745	194	89	54	34	26
4	19	46	88	208	687	1,389	716	182	88	53	34	25
5	18	57	84	216	865	1,429	703	166	88	53	33	25
6	21	68	85	321	930	1,299	705	156	86	52	33	24
7	23	73	76	569	1,144	1,123	682	153	85	51	33	24
8	21	77	68	554	1,276	1,127	639	150	84	50	33	23
9	20	80	67	443	1,364	1,266	595	145	83	50	32	24
10	20	85	66	335	1,258	1,382	557	143	80	48	32	25
11	20	94	80	313	1,094	1,412	536	142	80	47	32	25
12	20	102	216	473	1,070	1,401	516	139	78	47	32	26
13	20	114	236	554	1,050	1,299	482	136	77	46	32	26
14	22	134	192	476	1,058	1,222	453	132	76	46	32	27
15	23	155	147	367	1,331	1,140	427	128	75	45	31	27
16	22	152	116	301	1,409	1,076	418	124	73	45	31	28
17	22	149	98	255	1,509	1,042	402	123	72	44	31	28
18	21	144	86	286	1,518	1,106	383	121	70	44	31	29
19	20	140	90	329	1,497	1,211	371	119	70	43	31	27
20	20	141	119	370	1,395	1,196	349	117	69	43	31	26
21	20	139	144	465	1,311	1,191	336	114	68	42	30	25
22	22	136	159	492	1,301	1,369	325	111	67	42	30	25
23	25	132	209	614	1,239	1,462	307	107	66	41	30	25
24	28	129	448	690	1,142	1,465	295	105	65	40	29	25
25	33	113	545	682	970	1,432	283	102	64	39	29	25
26	40	96	470	611	911	1,336	272	100	62	39	28	25
27	51	89	363	587	853	1,227	258	98	61	38	28	24
28	53	87	295	516	839	1,116	247	95	60	37	27	24
29	50	80	241	453	812	1,012	239	94	59	37		24
30	47	75	204	418	940	920	229	94	57	36		24
31		72		376	1,034		219		56	36		24
Total	778	3,074	5,235	12,933	32,950	36,174	14,326	4,002	2,293	1,399	879	788
Mean	25.9	99.2	174	417	1,063	1,206	462	133	74.0	45.1	31.4	25.4
Max.	53	155	545	690	1,518	1,465	849	210	93	56	35	29
Min.	18	35	66	155	352	801	219	94	56	36	27	23
Runoff - mcm.	67.219	265.595	452.304	1,117.411	2,846.880	3,125.434	1,237.766	345.773	198.115	120.874	75.946	68.083

WATER YEAR 1956 : Max. 1,518 Min. 18 Mean 315 Annual Runoff 9,921.398 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 18	18.00	45.19	1,539				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Tha Pla, Uttaradit (N.6A)

Location: Lat 17°- 42' - 50" N, Long 100°- 31' - 56" E, on right bank 600 meters upstream from district office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,173 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +73.73 m. (M.S.L.)

Bench Mark:

Location: On right bank near gage site.
Elevation: +90.517 m. (M.S.L.)

Gage Reading Frequency: 16 - time daily readings at 05.00, 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, mean hourly discharge is included for flow computation.

Overbank Flow Conditions: No overbank flow.

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

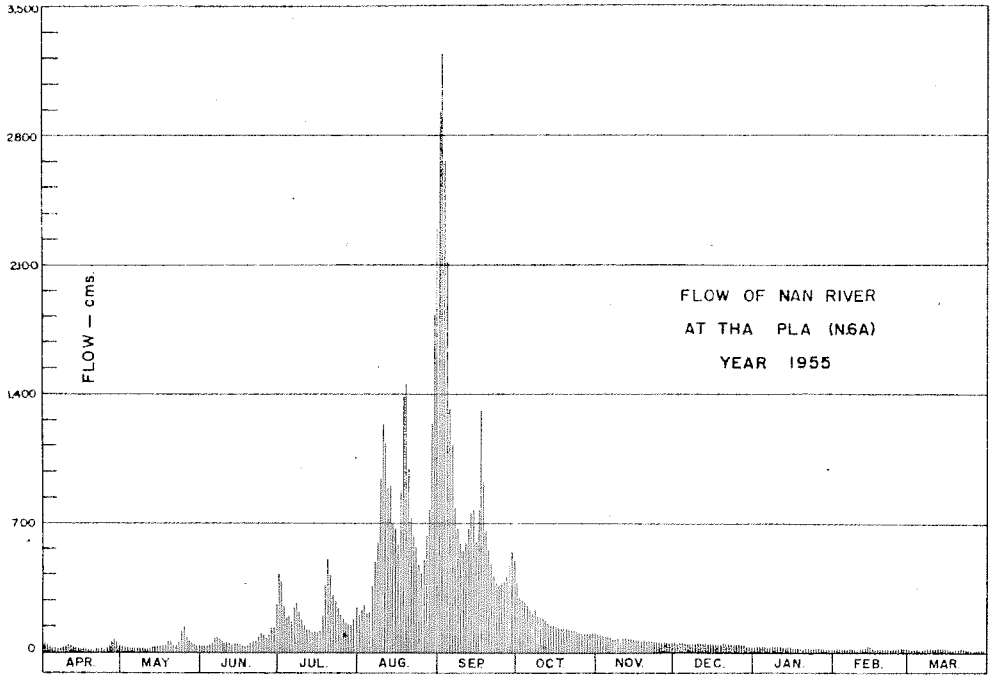
Remarks: Records began on Dec. 16, 1954, and record poor for year 1954.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	75.05	74.79	74.80	77.88	76.44	84.89	77.59	75.58	75.06	74.87	74.61	74.45
2	74.99	.69	.79	.67	.66	85.35	.20	.61	.05	.86	.60	.44
3	.80	.65	75.01	76.86	.74	.07	76.98	.55	.04	.85	.60	.43
4	.64	.69	.03	.36	.49	83.21	.95	.51	.02	.84	.60	.45
5	.62	.65	.12	.40	.50	81.43	.79	.48	.01	.83	.59	.45
6	74.48	74.62	75.35	76.23	77.16	80.79	76.59	75.44	75.01	74.82	74.59	74.42
7	.49	.54	.42	.82	78.23	79.72	.44	.42	.00	.81	.58	.42
8	.64	.54	.28	.93	.39	.16	.59	.39	.00	.80	.58	.45
9	.76	.61	.24	.51	79.17	78.79	.43	.37	.00	.79	.58	.49
10	.91	.61	.10	.21	81.22	.53	.36	.35	.00	.78	.58	.52
11	74.87	74.64	75.09	75.98	81.04	78.62	76.31	75.35	75.00	74.77	74.58	74.51
12	.70	.71	.10	.84	80.07	79.05	.25	.34	74.99	.76	.59	.53
13	.60	.87	.04	.86	79.69	.49	.15	.34	.99	.75	.62	.46
14	.53	.87	.06	.72	.45	.30	.13	.33	.98	.74	.73	.44
15	.49	.87	.09	.74	.12	78.74	.04	.30	.98	.73	.72	.42
16	74.45	74.89	75.03	75.72	78.64	79.16	75.99	75.27	74.98	74.72	74.66	74.41
17	.43	75.00	74.98	.72	79.34	81.44	.91	.26	.97	.71	.64	.41
18	.41	74.97	.95	76.25	81.51	80.22	.91	.24	.97	.70	.60	.41
19	.39	75.16	75.00	77.47	.82	79.12	.89	.21	.97	.69	.57	.41
20	.39	.15	.07	78.33	80.57	78.46	.86	.20	.97	.68	.55	.40
21	74.44	74.99	75.15	77.97	79.49	78.12	75.83	75.19	74.96	74.67	74.54	74.44
22	.45	75.00	.14	.23	78.93	77.88	.80	.17	.96	.66	.54	.42
23	.54	.03	.36	75.91	.64	.63	.76	.16	.95	.65	.53	.44
24	.60	.76	.63	.63	.20	.47	.71	.15	.94	.64	.53	.41
25	.67	.93	.56	.37	77.86	.68	.65	.11	.94	.64	.52	.38
26	74.73	75.46	75.42	76.28	78.00	77.65	75.65	75.10	74.93	74.63	74.51	74.38
27	75.14	.22	.52	.12	.83	.87	.64	.09	.92	.63	.50	.37
28	.32	.07	.93	.08	79.67	78.18	.62	.09	.91	.62	.47	.35
29	.07	74.98	.94	.26	80.62	.51	.66	.09	.90	.61	.46	.35
30	74.97	.92	77.02	.72	82.70	.28	.64	.08	.89	.61		.34
31		.87			.90		.60		.88	.61		.35
Mean	74.68	74.93	75.27	76.55	79.16	79.57	76.16	75.29	74.97	74.72	74.58	74.42
Max.	75.32	75.93	77.02	78.33	82.90	85.35	77.59	75.61	75.06	74.87	74.73	74.53
Min.	74.39	74.54	74.79	75.72	76.44	77.47	75.60	75.08	74.88	74.61	74.46	74.34

WATER YEAR 1955 : Max. 85.35 m. Min. 74.34 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	50	33	55	431	205	2,958	380	98	51	37	22	15
2	46	27	33	394	236	3,244	297	101	50	36	22	15
3	33	25	47	265	247	3,066	283	95	50	36	22	14
4	24	27	48	194	212	2,073	278	91	48	35	22	15
5	23	25	56	199	213	1,308	254	88	48	35	21	14
6	16	25	77	175	310	1,086	226	85	47	34	21	14
7	17	19	85	259	495	808	205	85	46	34	21	14
8	24	19	70	276	526	685	226	80	46	33	21	15
9	31	22	67	215	697	588	203	78	46	32	21	17
10	39	23	54	173	1,233	554	194	77	46	32	20	18
11	37	24	53	143	1,170	572	187	77	46	31	21	18
12	28	28	54	126	892	661	178	76	46	31	21	18
13	22	37	50	120	801	757	164	76	46	30	23	16
14	19	37	51	112	707	775	161	75	45	30	30	15
15	16	37	52	114	676	596	150	72	45	29	29	14
16	15	38	49	112	576	692	144	70	45	29	25	14
17	14	46	44	112	713	1,311	135	69	44	28	24	14
18	14	44	44	178	1,341	1,006	135	67	44	28	22	14
19	13	60	46	360	1,454	676	132	64	44	27	20	14
20	13	59	52	514	1,028	540	129	63	44	27	20	13
21	15	46	59	447	755	482	125	62	43	26	19	15
22	15	46	58	322	636	431	122	61	43	25	19	14
23	22	49	78	273	576	387	117	60	42	25	18	15
24	22	117	103	231	489	360	110	59	42	24	18	14
25	26	137	96	195	427	385	106	55	42	24	18	12
26	30	87	82	182	452	390	106	54	41	24	18	12
27	60	65	97	160	615	429	104	54	40	23	17	12
28	74	52	137	155	797	485	102	54	39	22	16	12
29	52	45	158	148	1,046	550	106	54	39	22	16	12
30	44	40	148	180	1,822	504	104	53	38	22		11
31		37		244	2,098		100		38	22		12
Total	854	1,374	2,059	7,009	23,445	28,359	5,263	2,151	1,374	893	607	442
Mean	28.5	44.3	68.6	226	756	945	170	71.7	44.3	28.8	20.9	14.2
Max.	74	137	148	514	2,098	3,244	380	101	51	37	30	18
Min.	13	19	33	112	205	360	100	53	38	22	16	11
Runoff — mcm.	73.786	118.714	177.898	605.578	2,025.648	2,450.218	454.723	185.846	118.714	77.155	52.444	38.188

total → 738830

WATER YEAR 1955 : Max. 3,244 Min. 11 Mean 202 Annual Runoff 6,378.912 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 2	07.00	85.40	3,278				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 district office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,173 sq.km.

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: 24 - hourly readings.

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating:
Rated by Float: -
Rated by Current Meter: 1954 to date

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation.

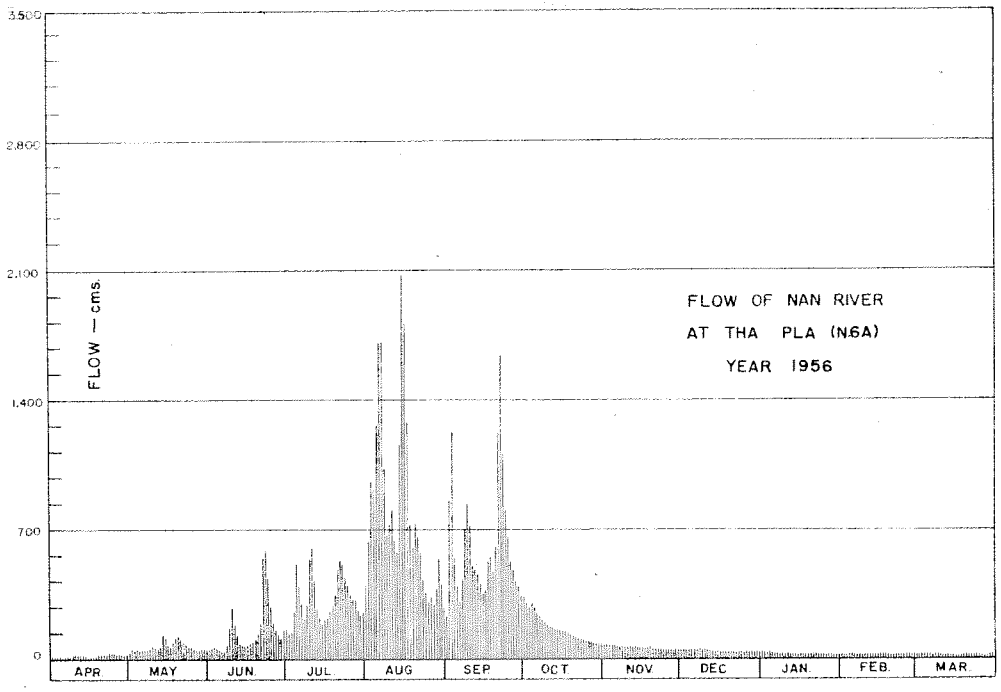
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.38	74.74	74.95	76.30	77.72	76.83	77.32	75.50	75.01	74.72	74.55	74.43
2	.39	75.06	.98	75.99	79.13	80.01	.21	.46	.00	.71	.54	.42
3	.37	74.96	75.27	76.01	80.41	.87	.12	.41	.00	.71	.54	.42
4	.36	75.12	.15	.78	.24	78.92	.24	.39	74.99	.70	.53	.42
5	.35	74.94	74.99	78.42	81.04	77.94	.13	.36	.99	.69	.52	.42
6	74.35	74.94	74.91	77.75	82.57	77.36	76.91	75.35	74.98	74.68	74.52	74.41
7	.36	75.07	.89	.04	.59	.77	.74	.32	.97	.68	.51	.41
8	.39	.02	75.13	76.54	80.63	79.34	.61	.33	.96	.67	.51	.41
9	.41	.01	76.25	77.07	79.28	.96	.52	.32	.94	.66	.50	.44
10	.46	.30	77.06	78.60	.49	.50	.43	.30	.93	.66	.50	.42
11	74.48	75.15	76.60	78.88	79.81	78.41	76.38	75.29	74.92	74.65	74.49	74.41
12	.45	.13	75.99	77.93	.00	.24	.37	.26	.91	.64	.49	.40
13	.43	.29	.64	.16	78.75	.14	.25	.24	.90	.64	.48	.40
14	.39	.96	.39	76.76	80.82	77.76	.28	.23	.89	.64	.48	.40
15	.37	.90	.24	.45	83.44	.59	.20	.24	.88	.64	.47	.40
16	74.36	75.48	75.34	76.64	82.81	77.64	76.15	75.22	74.87	74.63	74.47	74.39
17	.34	.29	.49	.38	80.93	78.52	.12	.22	.85	.62	.46	.39
18	.40	.26	.60	.94	79.52	.66	.00	.20	.84	.61	.46	.43
19	.47	.84	.68	77.15	78.89	.24	75.95	.18	.83	.59	.45	.48
20	.45	.87	.92	.41	79.53	.92	.90	.15	.82	.59	.45	.55
21	74.44	75.68	76.53	78.37	79.19	81.19	75.85	75.12	74.82	74.58	74.45	74.51
22	.53	.57	78.62	.59	78.62	82.41	.78	.10	.81	.58	.44	.50
23	.76	.36	.86	.36	77.94	80.67	.73	.08	.80	.58	.44	.47
24	.75	.17	77.85	.14	.49	79.67	.69	.07	.80	.58	.44	.46
25	.66	.16	.12	77.87	.29	.00	.66	.05	.79	.57	.43	.43
26	74.67	75.11	76.51	77.53	77.41	78.49	75.62	75.04	74.77	74.57	74.43	74.41
27	.63	74.97	.16	.34	.16	.14	.58	.04	.76	.57	.43	.40
28	.52	.95	75.94	.35	.36	77.86	.55	.03	.76	.57	.43	.39
29	.53	.93	.75	76.97	78.58	.67	.51	.02	.75	.56		.41
30	.54	75.00	76.19	.82	77.84	.54	.52	.02	.74	.56		.44
31		.04		.88	.04		.52		.73	.56		.47
Mean	74.47	75.23	76.00	77.30	79.43	78.77	76.22	75.22	74.87	74.56	74.48	74.43
Max.	74.76	75.96	78.86	78.88	83.44	82.41	77.32	75.50	75.01	74.72	74.55	74.55
Min.	74.34	74.74	74.89	75.99	77.04	76.83	75.51	75.02	74.73	74.56	74.43	74.39

WATER YEAR 1956 : Max. 83.44 m. Min. 74.34 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	51	44	166	378	237	312	82	47	30	21	15
2	13	50	52	132	648	865	294	79	47	29	21	15
3	12	44	64	154	963	1,227	260	75	47	29	21	15
4	12	54	56	230	916	668	299	74	46	29	20	15
5	11	43	46	506	1,150	416	282	71	46	28	20	15
6	11	43	40	585	1,700	318	249	70	46	28	20	14
7	12	50	40	268	1,708	286	225	68	45	28	19	14
8	13	48	55	197	1,026	694	207	69	44	27	19	14
9	14	47	160	272	670	842	194	68	43	27	19	16
10	17	67	271	542	727	750	181	67	43	27	19	15
11	18	56	191	598	804	504	175	66	42	26	18	14
12	16	55	132	414	622	484	174	64	41	26	18	14
13	15	66	96	286	572	452	160	62	41	26	18	14
14	13	128	74	228	1,082	385	166	62	40	26	18	14
15	12	122	62	184	2,072	356	155	62	40	26	17	14
16	12	81	70	211	1,796	364	149	61	39	25	17	13
17	11	66	82	218	1,115	526	146	61	38	25	17	13
18	14	64	92	253	690	554	133	60	37	24	17	13
19	17	116	100	285	669	471	127	58	37	23	16	18
20	16	119	124	326	756	606	122	56	36	23	16	21
21	16	100	195	496	661	1,200	117	54	36	23	16	19
22	20	89	546	540	546	1,638	110	53	35	23	16	19
23	32	71	588	494	416	1,037	105	52	35	23	16	17
24	31	57	400	452	339	770	101	51	35	23	16	17
25	27	57	280	403	307	622	98	50	34	22	15	15
26	27	53	193	346	326	520	94	49	33	22	15	14
27	25	45	160	315	286	462	90	49	32	22	15	14
28	20	44	126	317	318	402	87	49	32	22	15	13
29	20	43	107	297	558	369	83	48	32	22		14
30	21	47	154	236	398	347	84	48	31	22		16
31		49		244	268		84		31	22		17
Total	511	2,005	4,590	9,933	24,378	18,370	5,081	1,838	1,211	778	495	471
Mean	17.0	64.7	153	320	786	612	164	61.3	39.1	25.1	17.7	15.2
Max.	32	128	588	598	2,072	1,638	312	82	47	30	21	21
Min.	11	31	40	132	268	237	83	48	31	22	15	13
Runoff - mcm.	44.150	173.232	396.576	858.211	2,106.259	1,587.168	438.998	158.803	104.630	67.219	42.768	40.694

WATER YEAR 1956 : Max. 2,072 Min. 11 Mean 191 Annual Runoff 6,018.710 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 15	13.00	83.59	2,144				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat 16°- 26' - 32" N, Long 100°- 21' - 11" E, on left bank infront of Phichit Phittaya School, Amphoe Muang, Phichit.

Drainage Area: 29,153 sq.km.

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: +27.273 m. (M.S.L.)

Gage Reading Frequency: 1 - time daily readings at 06.00, 09.00, 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: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

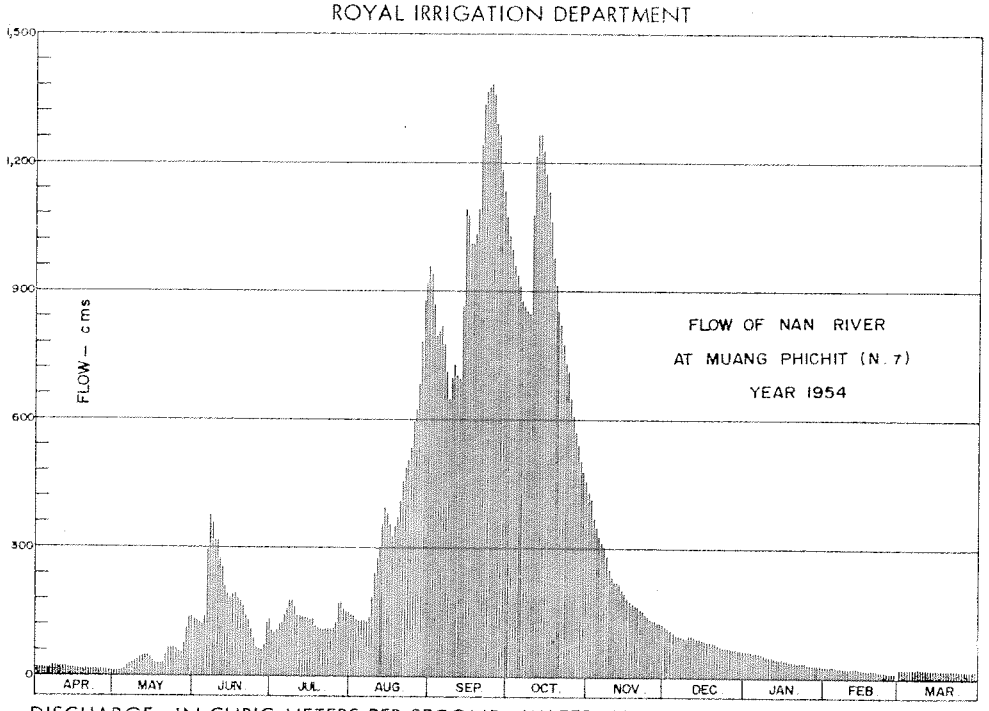
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1965 - 67. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.45	26.30	28.30	27.95	28.45	34.80	35.25	31.20	28.10	27.25	26.60	26.47
2	.45	.30	.25	.90	.40	.40	.10	.00	.00	.25	.60	.47
3	.45	.30	.20	.95	.30	35.94	34.90	30.70	27.95	.25	.60	.47
4	.40	.35	.15	28.15	.25	34.01	.80	.50	.90	.20	.60	.46
5	.40	.40	.39	.17	.25	.10	.65	.30	.80	.20	.55	.46
6	26.40	26.60	29.80	28.43	28.25	33.80	34.45	30.20	27.80	27.10	26.55	26.46
7	.55	.70	30.77	.60	.25	.30	.40	.10	.80	.15	.55	.45
8	.54	.72	.60	.84	.34	32.90	.30	29.90	.75	.10	.55	.45
9	.52	.80	.30	.84	.86	33.25	.27	.60	.70	.10	.50	.45
10	.50	.86	.30	.70	29.51	.47	35.00	.40	.60	.05	.50	.44
11	26.50	27.00	29.85	28.40	29.86	33.30	36.01	29.30	27.80	27.05	26.50	26.43
12	.50	.02	.65	.40	30.09	.23	.17	.30	.75	.00	.50	.42
13	.47	.05	.20	.35	.59	34.38	.18	.25	.70	.00	.50	.42
14	.46	.05	.00	.35	.90	35.54	.05	.10	.70	26.95	.45	.41
15	.44	.00	28.90	.30	.80	.47	35.85	.00	.65	.95	.40	.40
16	26.43	26.80	28.98	28.30	30.55	35.12	35.70	28.90	27.65	26.90	26.40	26.40
17	.41	.70	29.00	.30	.30	.12	.40	.80	.60	.90	.40	.39
18	.40	.70	28.90	.10	.50	.27	.00	.75	.60	.85	.40	.37
19	.40	.69	.80	.05	.72	.56	34.70	.70	.57	.85	.40	.36
20	.40	.75	.70	27.90	31.04	36.10	.30	.65	.57	.80	.35	.36
21	26.37	27.20	28.40	27.90	31.41	36.38	34.10	28.60	27.60	26.80	26.36	26.37
22	.36	.37	.25	28.00	.68	.47	33.80	.55	.45	.80	.30	.37
23	.36	.40	.00	.00	.83	.50	.50	.45	.40	.80	.30	.36
24	.35	.35	27.70	.00	32.03	.51	.30	.35	.40	.80	.30	.34
25	.35	.30	.40	.05	.52	.45	32.90	.30	.40	.70	.25	.33
26	26.34	27.20	27.30	28.20	32.71	36.25	32.60	28.25	27.35	26.70	26.25	26.32
27	.33	.18	.30	.77	33.16	.18	.30	.25	.35	.70	.25	.32
28	.32	.55	.48	.80	.71	35.90	.10	.20	.35	.70	.25	.33
29	.32	.93	28.20	.60	34.46	.70	31.80	.20	.30	.70		.33
30	.30	28.35	.30	.50	.72	.45	.60	.15	.30	.65		.32
31		.40		.50	.90		.40		.30	.60		.33
Mean	26.41	27.01	28.75	28.30	30.75	34.96	34.25	29.20	27.62	26.93	26.43	26.39
Max.	26.55	28.40	30.77	28.84	34.90	36.51	36.18	31.20	28.10	27.25	26.60	26.47
Min.	26.30	26.30	27.30	27.90	28.25	32.90	31.40	28.15	27.30	26.60	26.25	26.33

WATER YEAR 1954 : Max. 36.51 m. Min. 26.25 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	16	136	109	148	941	1,030	432	129	62	28	23
2	22	16	132	105	144	869	1,009	408	115	62	28	23
3	22	16	128	109	156	798	960	372	109	62	28	23
4	20	18	124	124	132	808	941	349	105	59	28	22
5	20	20	145	126	132	822	913	326	98	59	26	22
6	20	28	272	146	152	772	857	315	98	59	26	22
7	26	52	380	160	152	705	859	304	98	56	26	22
8	26	55	561	180	139	659	853	282	94	53	26	22
9	25	57	528	150	181	698	848	282	91	55	24	22
10	24	40	526	168	240	729	980	292	98	50	24	22
11	24	47	277	144	278	705	1,217	222	98	50	24	21
12	24	49	257	144	305	695	1,265	222	94	47	24	21
13	23	50	212	140	560	866	1,268	217	91	47	24	21
14	22	50	196	140	356	1,095	1,228	205	91	45	22	20
15	22	47	185	136	584	1,078	1,173	194	88	45	20	20
16	21	37	182	136	555	1,004	1,154	184	88	42	20	20
17	20	52	194	136	626	1,004	1,065	176	84	42	20	20
18	20	52	185	120	649	1,015	980	172	84	39	20	19
19	20	52	176	117	535	1,060	902	168	82	39	20	18
20	20	55	168	105	445	1,249	853	164	82	37	18	18
21	19	59	144	105	692	1,195	822	160	78	37	18	19
22	18	69	132	116	446	1,367	777	156	75	37	16	19
23	18	71	113	113	509	1,278	735	148	71	32	16	18
24	18	66	91	113	555	1,282	705	140	71	37	16	18
25	18	65	71	117	549	1,360	650	136	71	32	14	17
26	18	59	65	128	605	1,291	610	132	68	32	14	17
27	17	58	65	174	686	1,298	570	132	68	32	14	17
28	17	81	77	176	782	1,185	544	128	68	32	14	17
29	17	108	128	160	870	1,134	505	128	65	32		17
30	16	140	136	152	926	1,074	480	124	65	30		17
31		144		152	960		456		65	28		17
Total	619	1,487	5,390	4,229	12,487	30,396	27,226	6,579	2,671	1,374	598	614
Mean	20.6	51.2	180	136	405	1,013	878	219	86.2	44.3	21.3	19.8
Max.	26	144	380	180	960	1,382	1,268	432	128	62	28	23
Min.	16	16	65	105	132	659	456	124	65	28	14	17
Runoff - MCM.	53.482	137.117	465.696	365.299	1,078.877	2,627.882	2,352.326	568.426	230.774	118.714	51.667	53.050

WATER YEAR 1954 : Max. 1,382 Min. 14 Mean 257 Annual Runoff 8,101.642 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 24	18.00	36.51	1,382				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat 16°- 26' - 31" N, Long 100°- 21' - 11" E, on left bank infront of Phichit Phittaya School, Amphoe Muang, Phichit.

Drainage Area: 29,155 sq.km.

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: 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: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

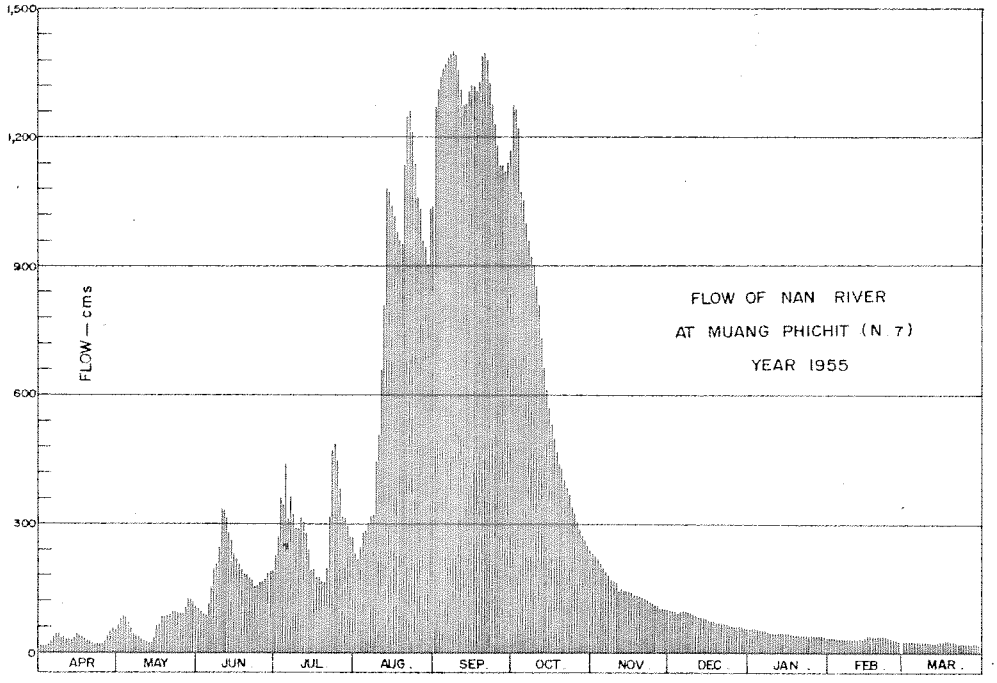
General Description: Records fair. Stage-discharge relation used is defined by discharge measurements made during 1965-67. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.32	27.31	27.90	29.37	29.40	36.19	36.20	29.40	27.80	27.17	26.77	26.57
2	.33	.58	.80	.81	.30	.32	.17	.35	.80	.15	.76	.56
3	.35	.66	.70	30.65	.57	.41	.00	.25	.75	.13	.74	.57
4	.40	.60	.70	.49	.90	.46	35.45	.15	.75	.12	.73	.57
5	.60	.40	28.05	31.60	.94	.49	.35	.02	.80	.10	.71	.56
6	26.87	27.20	28.60	30.20	30.11	36.53	35.10	28.96	27.80	27.09	26.70	26.54
7	.95	.00	29.05	.65	.25	.55	34.90	.87	.80	.08	.70	.50
8	.96	26.90	.16	.28	.25	.56	.70	.74	.77	.00	.70	.50
9	.75	.85	.55	.00	.53	.54	.60	.70	.70	.00	.69	.47
10	.80	.70	30.38	.00	31.85	.45	.30	.64	.70	.00	.68	.46
11	26.70	26.65	30.36	30.22	33.05	36.30	34.00	28.40	27.65	27.00	26.70	26.45
12	.65	.60	.20	.15	34.83	.20	33.50	.50	.60	26.99	.72	.44
13	.62	.55	29.90	29.90	35.48	.24	.00	.40	.60	.98	.71	.43
14	.73	.55	.70	.50	.45	.30	32.60	.40	.55	.97	.70	.46
15	.95	.84	.40	.00	.30	.34	.30	.40	.53	.95	.81	.56
16	26.90	27.32	29.30	29.02	35.19	36.33	32.00	28.35	27.50	26.94	26.84	26.51
17	.80	.40	.15	28.83	.00	.30	31.75	.30	.45	.93	.85	.55
18	.70	.64	.00	.82	34.90	.38	.50	.27	.45	.91	.80	.56
19	.60	.61	28.90	.70	.86	.53	.30	.25	.40	.90	.80	.52
20	.55	.67	.90	.72	35.70	.55	.17	.23	.40	.89	.85	.49
21	26.50	27.71	28.80	29.10	36.19	36.50	30.95	28.20	27.38	26.88	26.85	26.45
22	.40	.78	.72	30.23	.17	.35	.80	.15	.35	.87	.80	.40
23	.42	.78	.57	31.53	.00	.20	.65	.10	.35	.86	.78	.39
24	.42	.76	.59	.67	35.72	.05	.40	.05	.30	.86	.75	.39
25	.46	.75	.70	.35	.40	35.87	.30	.00	.25	.85	.70	.38
26	26.60	27.75	28.70	30.80	35.26	35.70	30.15	27.95	27.25	26.84	26.65	26.38
27	.86	.91	.77	.30	34.90	.70	29.95	.90	.24	.84	.62	.38
28	27.10	28.21	.94	.20	.82	.65	.80	.90	.24	.82	.60	.37
29	.20	.20	.97	.05	.61	36.13	.70	.87	.22	.80	.58	.37
30	.10	.10	29.01	29.80	35.27	.19	.55	.85	.20	.79		.32
31		27.95		.80	.72		.45		.17	.78		.30
Mean	26.69	27.42	28.95	30.02	33.58	36.28	32.50	28.45	27.51	26.95	26.73	26.46
Max.	27.20	28.21	30.38	31.67	36.19	36.56	36.20	29.40	27.80	27.17	26.85	26.57
Min.	26.32	26.55	27.70	28.70	29.30	35.65	29.45	27.85	27.17	26.78	26.58	26.30

WATER YEAR 1955 : Max. 36.56 m. Min. 26.30 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	66	105	229	232	1,271	1,274	232	98	57	35	27
2	17	83	98	275	222	1,315	1,265	227	98	56	35	26
3	17	88	91	367	249	1,346	1,214	217	94	55	34	27
4	20	84	91	348	282	1,364	1,074	207	94	54	33	27
5	28	71	117	480	287	1,374	1,052	196	98	53	32	26
6	40	59	160	515	306	1,389	1,000	190	98	52	32	26
7	45	47	198	367	321	1,396	960	182	98	52	32	24
8	45	42	208	324	321	1,400	922	171	96	47	32	24
9	34	39	247	295	353	1,392	904	168	91	47	32	23
10	37	32	336	295	511	1,360	853	163	91	47	31	22
11	32	30	333	318	671	1,308	807	144	88	47	32	22
12	30	28	315	310	947	1,274	733	152	84	47	33	22
13	29	26	282	282	1,081	1,288	664	144	84	46	32	21
14	33	26	262	242	1,074	1,308	610	144	81	46	32	22
15	45	39	252	194	1,041	1,322	570	144	80	45	37	26
16	42	66	222	196	1,018	1,318	531	140	78	44	39	24
17	37	71	207	179	980	1,308	498	136	75	44	39	26
18	32	87	194	178	980	1,335	468	134	75	42	37	26
19	28	85	185	168	952	1,389	444	132	71	42	37	25
20	26	89	185	170	1,134	1,396	428	130	71	41	39	24
21	24	92	176	203	1,271	1,378	402	128	70	41	39	22
22	20	97	170	319	1,265	1,325	384	124	68	40	37	20
23	21	97	158	472	1,214	1,274	367	120	66	40	36	20
24	21	95	159	488	1,139	1,228	338	117	65	40	34	20
25	22	94	168	450	1,065	1,178	326	113	62	39	32	19
26	28	94	168	384	1,033	1,134	310	109	62	39	30	19
27	40	106	174	326	960	1,134	288	105	61	39	29	19
28	53	129	189	315	945	1,121	272	105	61	38	28	19
29	59	126	191	299	906	1,252	262	105	60	37	27	19
30	53	120	195	272	1,035	1,271	247	102	59	36		17
31		109		272	1,139		237		57	36		16
Total	975	2,319	5,816	9,326	24,912	39,148	19,704	4,479	2,436	1,389	977	700
Mean	32.5	74.8	194	301	804	1,305	636	149	78.6	44.8	33.7	22.6
Max.	59	129	336	488	1,271	1,400	1,274	232	98	57	39	27
Min.	17	26	91	168	222	1,121	237	102	57	36	27	16
Runoff - mcm.	84.240	200.362	502.502	805.766	2,152.397	3,382.387	1,702.426	386.986	210.470	120.010	84.413	60.480

WATER YEAR 1955 : Max. 1,400 Min. 16 Mean 306 Annual Runoff 9,692.438 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 8	18.00	36.56	1,400				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Muang Phichit (N.7)

Location: Lat. 16° - 26' - 31" N, Long 100° - 21' - 11" E, on left bank infront of Phichit Phittaya School, Amphoe Muang, Phichit.

Drainage Area: 29,153 sq.km.

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 year without actual ratings.

Overbank Flow Conditions: No overbank flow.

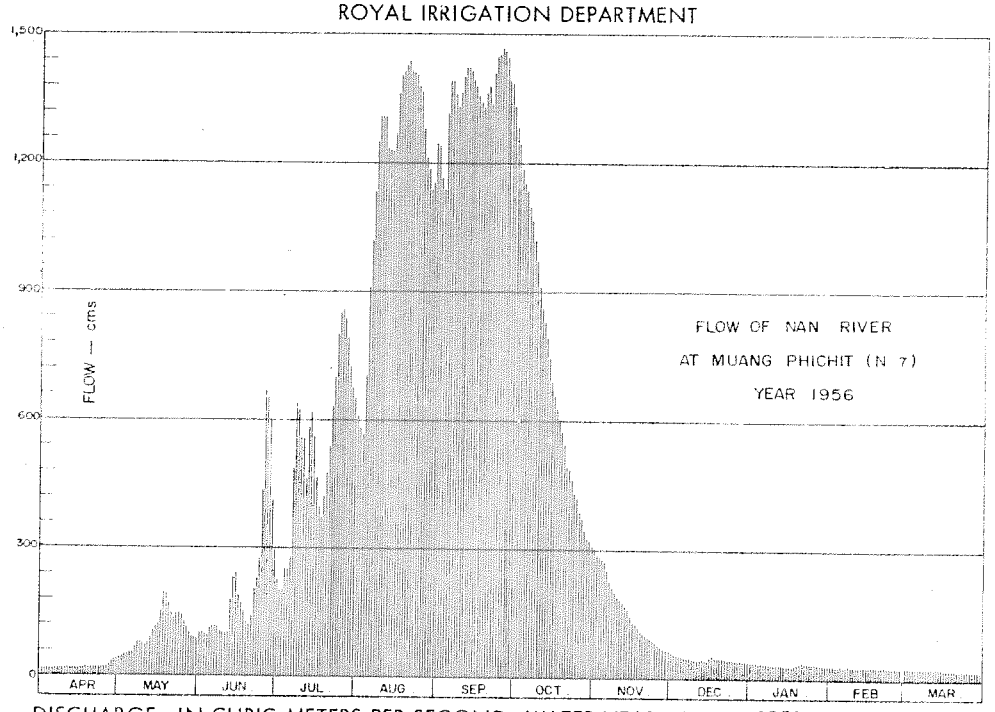
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965-67. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.28	26.98	27.87	29.35	32.60	36.09	36.22	30.10	27.25	26.90	26.74	26.61
2	.30	27.00	.87	.10	.34	35.82	.10	29.95	.20	.89	.73	.61
3	.30	.03	.86	.17	.29	.71	35.90	.90	.17	.88	.72	.60
4	.31	.11	.80	.63	33.29	36.32	.77	.85	.15	.87	.71	.59
5	.30	.12	28.05	.60	34.62	.54	.70	.80	.10	.86	.70	.61
6	26.31	27.15	28.07	29.90	35.18	36.54	35.55	29.60	27.10	26.83	26.70	26.61
7	.30	.39	.10	31.66	.69	.45	.40	.35	.05	.80	.73	.59
8	.30	.57	.05	32.80	36.12	.35	.20	.20	.05	.79	.72	.58
9	.35	.55	27.91	.70	.30	.46	34.95	.10	.00	.78	.72	.57
10	.38	.46	.87	.20	.30	.56	.63	28.95	.00	.77	.71	.56
11	26.37	27.44	27.86	31.40	36.30	36.62	34.35	28.90	27.00	26.76	26.70	26.56
12	.35	.52	.90	.47	.06	.62	.15	.85	.00	.75	.69	.55
13	.34	.71	28.86	32.40	.05	.60	33.90	.70	.00	.74	.68	.59
14	.34	.95	29.44	.70	.04	.54	.57	.60	26.98	.73	.67	.53
15	.35	28.07	.52	.23	.19	.50	.20	.45	.98	.72	.67	.52
16	26.37	28.14	28.95	31.50	36.46	36.44	32.95	28.25	27.10	26.70	26.68	26.51
17	.38	.58	.74	30.90	.56	.40	.74	.20	.17	.70	.68	.50
18	.39	29.04	.51	.70	.60	.36	.57	.10	.05	.75	.68	.49
19	.38	.00	.17	31.11	.63	.46	.35	.00	.04	.80	.68	.48
20	.38	28.70	.13	.57	.66	.50	.10	27.90	.03	.87	.68	.47
21	26.37	28.46	28.43	32.06	36.60	36.52	31.70	27.85	27.02	26.85	26.67	26.46
22	.37	.30	29.13	.80	.59	.59	.65	.80	.00	.84	.66	.45
23	.41	.44	.39	33.25	.57	.69	.47	.75	.00	.83	.65	.44
24	.45	.48	.85	33.94	.50	.71	.20	.70	26.99	.82	.64	.43
25	.46	.40	31.23	34.28	.47	.74	.10	.60	.98	.80	.63	.42
26	26.49	28.20	33.04	34.33	36.15	36.72	30.83	27.50	26.95	26.80	26.63	26.42
27	.55	.02	32.92	.20	.00	.68	.70	.45	.94	.79	.62	.42
28	.71	27.80	.53	33.88	35.90	.54	.47	.40	.93	.78	.62	.41
29	.88	.70	30.97	.45	.70	.52	.30	.35	.90	.77		.40
30	.88	.70	.06	.10	.78	.37	.25	.50	.90	.76		.40
31		.68		32.90	36.10		.15		.90	.75		.41
Mean	26.41	27.86	29.10	31.94	35.70	36.46	33.13	28.51	27.03	26.80	26.68	26.51
Max.	26.88	29.04	44.04	34.33	36.66	36.74	36.22	30.10	27.25	26.90	26.74	26.61
Min.	26.28	26.98	27.80	29.10	32.29	35.71	30.15	27.30	26.90	26.70	26.62	26.40

WATER YEAR 1956 : Max. 36.74 m. Min. 26.28 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	46	103	227	610	1,240	1,281	304	62	42	34	28
2	16	42	105	205	575	1,165	1,243	288	59	41	33	28
3	16	40	102	209	569	1,137	1,186	282	57	41	33	28
4	16	54	98	255	704	1,315	1,152	277	56	40	32	28
5	16	54	117	252	908	1,392	1,134	272	53	40	32	28
6	16	56	118	282	1,016	1,392	1,097	252	55	38	32	28
7	16	71	120	487	1,131	1,360	1,063	227	50	37	33	28
8	16	82	117	637	1,249	1,325	1,020	212	50	36	33	27
9	15	81	105	623	1,308	1,364	970	203	47	36	33	27
10	19	75	103	557	1,308	1,400	909	189	47	35	32	26
11	19	74	102	456	1,308	1,422	861	185	47	35	32	26
12	18	79	105	464	1,231	1,422	829	180	47	34	32	26
13	18	92	181	583	1,228	1,414	792	168	47	34	31	28
14	18	109	236	623	1,226	1,392	745	160	46	33	31	25
15	18	118	244	561	1,271	1,378	691	148	46	33	31	25
16	19	123	189	468	1,364	1,356	657	132	53	32	31	24
17	19	158	171	396	1,400	1,342	629	128	57	32	31	24
18	20	198	153	372	1,414	1,328	606	120	50	34	31	24
19	19	194	126	421	1,426	1,364	578	113	50	37	31	23
20	19	168	123	476	1,437	1,378	544	105	49	40	31	23
21	19	149	146	539	1,414	1,385	492	102	49	39	31	22
22	19	136	206	657	1,410	1,410	486	98	47	39	30	22
23	20	147	231	698	1,405	1,449	464	94	47	38	30	22
24	22	150	227	798	1,378	1,457	432	91	47	38	30	21
25	22	144	456	850	1,367	1,469	420	84	46	37	29	21
26	24	128	669	858	1,258	1,461	388	78	45	37	29	21
27	26	114	655	887	1,214	1,445	372	75	44	36	29	21
28	32	98	600	789	1,186	1,392	346	71	44	36	29	20
29	41	91	484	726	1,134	1,385	326	68	42	35		20
30	41	91	300	677	1,155	1,382	321	65	42	35		20
31		90		650	1,243		310		42	34		20
Total	617	3,266	6,639	16,611	36,845	41,071	22,340	4,771	1,521	1,154	876	754
Mean	20.6	105	221	536	1,188	1,369	721	159	49.1	36.6	31.3	24.3
Max.	41	198	669	858	1,437	1,469	1,281	304	62	42	34	28
Min.	15	46	98	205	569	1,157	310	65	42	32	29	20
Runoff - mcm.	53.309	282.182	573.610	1,435.190	3,183.408	3,548.534	1,930.176	412.214	131.414	97.978	175.686	65.146

WATER YEAR 1956 : Max. 1,469 Min. 15 Mean 374 Annual Runoff 11,788.848 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	06.00	36.74	1,469				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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: 32,878 sq.km.

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 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

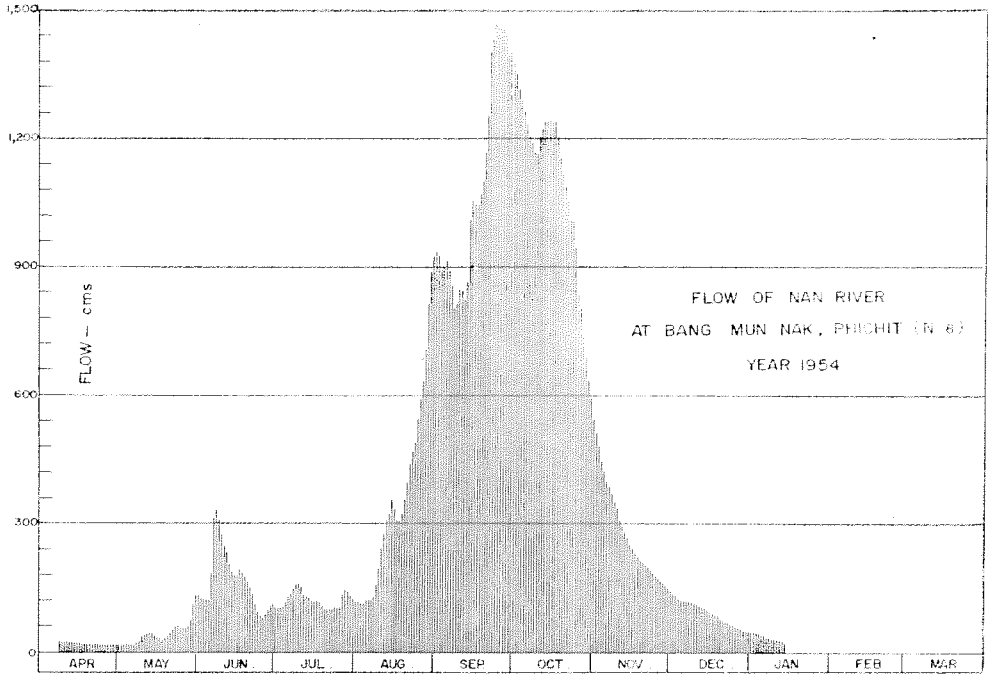
General Description: Records fair, except those for periods of no gage-height record which are poor. Stage-discharge relation used is defined by discharge measurements made during 1965-67. No upstream state diversions for irrigation.

Remarks: No gage-height record for periods Apr. 1 - 7, and Jan. 15 - Mar.31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		20.91	22.74	22.43	22.60	28.54	30.06	26.35	22.86	21.48		
2		.91	.66	.41	.55	.50	29.98	.17	.78	.47		
3		.91	.64	.43	.52	.35	.88	25.94	.72	.41		
4		.91	.61	.46	.52	.37	.81	.67	.65	.38		
5		.91	.62	.59	.60	.44	.73	.49	.61	.35		
6		20.91	23.36	22.73	22.62	28.33	29.64	25.31	22.60	21.33		
7		.91	24.62	.84	.62	.16	.55	.22	.58	.28		
8	21.05	21.02	.78	.98	.71	27.87	.50	.07	.55	.22		
9	.04	.07	.57	23.11	23.02	.95	.43	24.90	.53	.19		
10	.03	.32	.28	.08	.51	28.11	.42	.78	.50	.16		
11	21.02	21.40	24.00	23.00	23.32	28.09	29.55	24.56	22.48	21.13		
12	.01	.44	23.85	22.78	24.28	27.99	.61	.43	.45	.10		
13	.00	.47	.59	.72	.56	28.20	.64	.29	.41	.05		
14	20.99	.42	.40	.68	.69	.85	.66	.17	.36	.01		
15	.98	.34	.32	.58	.96	29.03	.65	.02	.28			
16	20.97	21.28	23.34	22.59	24.78	29.00	29.64	23.92	22.20			
17	.96	.18	.39	.60	.54	.00	.58	.83	.15			
18	.95	.13	.38	.56	.56	.09	.55	.74	.10			
19	.94	.24	.28	.46	.69	.20	.38	.65	.06			
20	.93	.37	.14	.34	.99	.43	.27	.59	21.98			
21	20.92	21.49	22.97	22.35	25.31	29.70	29.15	23.52	21.92			
22	.91	.60	.82	.37	.64	30.11	.02	.48	.89			
23	.91	.72	.50	.38	.86	.20	28.84	.40	.85			
24	.91	.76	.26	.43	26.01	.29	.84	.35	.78			
25	.91	.69	.08	.42	.41	.29	.58	.28	.74			
26	20.91	21.64	22.03	22.43	26.68	30.27	28.04	23.20	21.68			
27	.91	.67	.16	.79	.94	.26	27.84	.14	.64			
28	.91	.75	.35	.92	27.36	.23	.56	.08	.60			
29	.91	.98	.47	.88	.95	.09	.25	.00	.55			
30	.91	22.48	.51	.76	28.32	.12	26.93	22.92	.54			
31		.76		.66	.49		.69		.51			
Mean		21.41	23.12	22.64	24.76	29.06	29.17	24.25	22.20			
Max.		22.76	24.78	23.11	28.49	30.29	30.06	26.35	22.86			
Min.		20.91	22.03	22.34	22.52	27.87	26.69	22.92	21.51			

WATER YEAR 1954 : Max. 30.29 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		20	133	107	121	936	1,379	544	142	47		
2		20	128	105	117	927	1,350	512	135	47		
3		20	125	107	115	895	1,313	482	131	44		
4		20	122	110	115	900	1,288	447	125	43		
5		20	123	120	121	915	1,262	423	122	41		
6		20	186	132	123	890	1,236	399	121	40		
7		20	316	140	123	855	1,204	388	120	37		
8	26	25	336	152	131	803	1,188	371	117	34		
9	26	27	310	163	156	815	1,167	350	116	32		
10	25	39	278	161	201	846	1,164	336	114	31		
11	25	44	250	154	245	842	1,204	309	112	30		
12	24	46	235	135	278	823	1,223	295	109	28		
13	24	47	209	131	309	863	1,236	279	105	26		
14	24	45	190	128	325	1,008	1,242	267	102	24		
15	23	40	182	120	357	1,054	1,239	252	98			
16	23	37	184	120	336	1,046	1,236	242	92			
17	22	32	189	121	308	1,046	1,213	233	90			
18	22	30	188	118	309	1,069	1,204	224	88			
19	22	35	179	110	325	1,100	1,152	215	84			
20	21	42	166	101	360	1,167	1,121	209	77			
21	21	48	152	101	399	1,252	1,086	202	73			
22	20	55	138	102	442	1,398	1,051	198	71			
23	20	61	114	105	471	1,430	1,006	190	69			
24	20	64	96	107	492	1,467	1,006	185	65			
25	20	59	86	106	550	1,467	945	179	62			
26	20	57	81	107	595	1,459	833	172	59			
27	20	58	90	136	637	1,455	801	166	57			
28	20	63	101	148	707	1,443	742	161	55			
29	20	77	111	144	815	1,390	688	154	51			
30	20	112	115	134	888	1,401	635	148	51			
31		134		126	925		594		49			
Total		1,417	5,113	3,849	11,394	32,962	34,008	8,532	2,862			
Mean		45.7	170	124	367	1,099	1,097	284	92.3			
Max.		134	336	163	925	1,467	1,379	544	142			
Min.		20	81	101	115	803	594	148	49			
Runoff - MCM.		122.429	441.763	332.554	984.442	2,847.916	2,938.291	737.165	247.277			

WATER YEAR 1954 : Max. 1,467 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	06.00	30.29	1,467				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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: 32,878 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.90 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 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

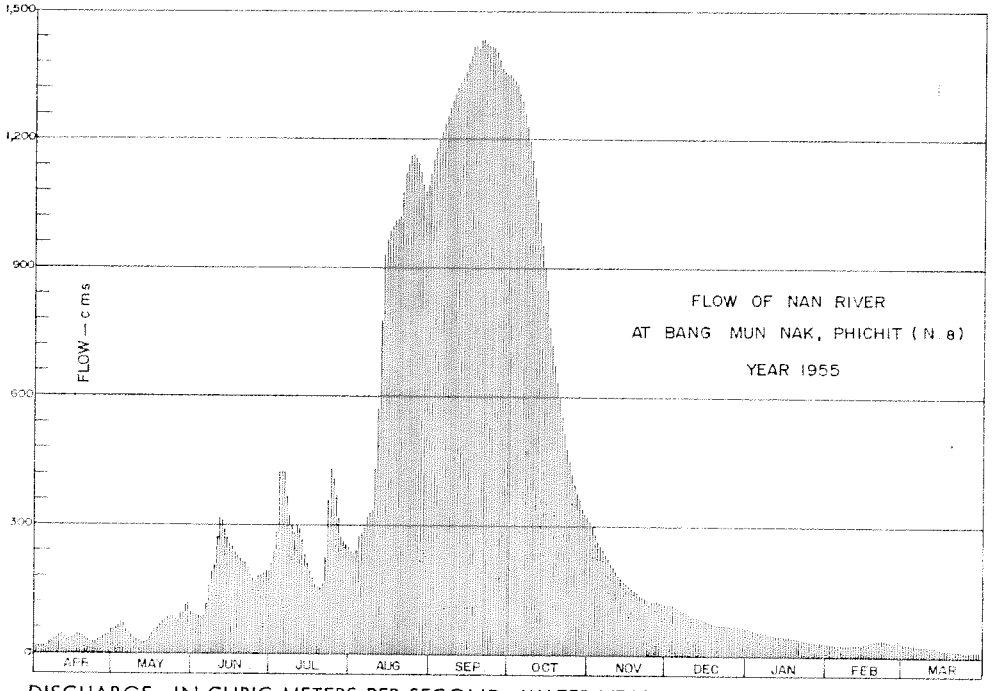
General Description: Records fair, except those for period of no gage - height records which are poor. Stage-discharge relation used is defined by discharge measurements made during 1965-67. No upstream state diversions for irrigation.

Remarks: * Estimated flow data on Dec. 1 - 6

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.85	21.69	22.20	25.63	23.91	29.38	29.06	24.56		21.76	21.17	21.19
2	.86	.73	.16	.92	.84	.47	.94	.45		.74	.15	.17
3	.87	.84	.10	24.37	.94	.53	.92	.30		.71	.14	.15
4	.88	.93	.09	25.52	24.27	.59	.86	.16		.69	.13	.12
5	.89	.86	.11	.52	.36	.64	.81	.06		.67	.12	.11
6	21.02	21.63	22.55	25.51	24.43	29.71	29.72	23.96		21.63	21.11	21.08
7	.11	.51	23.06	.04	.68	.76	.62	.85	22.38	.60	.11	.08
8	.20	.41	.42	24.69	.74	.81	.52	.73	.32	.59	.11	.06
9	.28	.30	.56	.47	.82	.86	.37	.62	.26	.55	.11	.06
10	.37	.22	24.22	.32	25.55	.90	.23	.57	.20	.53	.10	.05
11	21.44	21.18	24.63	24.46	26.56	29.93	29.05	23.45	22.18	21.51	21.19	21.03
12	.30	.10	.59	.42	27.77	.97	28.84	.36	.16	.49	.13	.02
13	.18	.07	.40	.17	28.52	30.00	.61	.28	.14	.48	.16	.00
14	.20	.13	.22	23.84	.67	.05	.37	.20	.11	.47	.12	20.88
15	.30	.31	.08	.61	.76	.10	.13	.14	.07	.46	.16	.87
16	21.37	21.49	23.99	23.43	28.80	30.16	27.70	23.07	22.03	21.45	21.21	20.85
17	.43	.66	.87	.27	.85	.16	.50	.03	.02	.42	.25	.84
18	.39	.74	.79	.10	.87	.15	.22	22.96	21.99	.41	.27	.83
19	.33	.85	.74	.04	.90	.20	26.93	.93	.97	.38	.31	.82
20	.27	.95	.72	.02	29.11	.20	.70	.85	.95	.37	.33	.80
21	21.18	22.02	23.72	23.12	29.27	30.18	26.42	22.79	21.93	21.35	21.34	20.81
22	.11	.08	.54	.74	.35	.17	.18	.75	.91	.33	.34	.76
23	.06	.09	.36	24.98	.41	.16	25.91	.72	.90	.31	.31	.76
24	.11	.09	.26	25.56	.42	.14	.70	.68	.88	.29	.29	.74
25	.19	.02	.20	.39	.39	.11	.48	.64	.87	.27	.27	.72
26	21.26	22.00	23.36	25.08	29.35	30.07	25.29	22.66	21.87	21.25	21.20	20.72
27	.32	.26	.34	24.65	.28	.03	.12	.66	.86	.23	.24	.72
28	.37	.26	.39	.31	.18	.00	.02	.64	.85	.21	.33	.72
29	.46	.52	.45	.13	.12	29.98	24.81	.61	.83	.20	.21	.72
30	.58	.56	.45	.06	.18	.98	.72	.58	.80	.19		.71
31		.30		23.99	.27		.65		.79	.18		.70
Mean	21.21	21.77	22.66	24.27	27.40	29.95	27.65	23.27	22.01	21.44	21.20	20.91
Max.	21.58	22.56	24.63	25.56	29.42	30.20	29.96	24.56	22.38	21.76	21.34	21.19
Min.	20.85	21.07	22.09	23.02	25.84	29.38	24.65	22.58	21.79	21.18	21.10	20.70

WATER YEAR 1955 : Max. 30.20 m. Min. 20.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	59	92	213	241	1,152	1,343	309	* 119	64	31	32
2	18	62	90	242	234	1,179	1,335	298	* 118	62	31	31
3	18	68	88	288	244	1,198	1,327	280	* 116	61	30	31
4	19	74	87	426	277	1,217	1,306	265	* 113	59	30	29
5	20	70	88	426	287	1,236	1,288	255	* 110	58	29	29
6	25	56	117	425	295	1,255	1,259	246	105	56	29	27
7	29	49	159	367	323	1,272	1,229	235	103	55	29	27
8	35	44	192	325	331	1,288	1,194	223	100	54	29	26
9	37	38	206	300	340	1,306	1,150	212	96	51	29	26
10	42	34	272	282	430	1,320	1,109	207	92	50	28	26
11	46	32	317	299	574	1,331	1,059	195	91	49	32	25
12	38	28	312	294	789	1,346	1,006	185	90	48	30	25
13	32	27	291	267	932	1,357	952	179	90	47	31	24
14	33	30	272	234	966	1,375	900	172	88	47	29	19
15	38	39	257	211	987	1,394	849	166	85	46	31	19
16	42	48	248	193	996	1,416	770	160	81	46	33	18
17	45	58	237	178	1,008	1,416	730	156	80	45	35	18
18	43	62	229	162	1,013	1,412	685	151	77	44	36	17
19	40	69	224	157	1,020	1,430	655	148	76	43	39	17
20	36	75	222	156	1,075	1,430	596	141	75	42	40	16
21	32	80	222	164	1,121	1,424	552	136	74	41	40	16
22	29	86	204	224	1,144	1,420	514	133	73	40	40	15
23	26	87	185	359	1,161	1,416	478	131	72	39	39	15
24	29	87	177	451	1,164	1,409	451	128	71	37	37	14
25	32	80	172	409	1,155	1,398	421	125	70	36	36	14
26	36	78	185	372	1,144	1,383	397	126	70	35	33	14
27	39	96	184	319	1,124	1,368	376	126	70	34	35	14
28	42	96	189	281	1,094	1,357	365	125	69	33	40	14
29	46	115	195	263	1,078	1,350	339	122	68	33	33	14
30	54	118	195	255	1,094	1,350	328	120	66	32		13
31		99		248	1,121		319		65	32		13
Total	1,018	2,044	5,908	8,770	24,762	40,205	25,260	5,456	2,673	1,419	964	638
Mean	33.9	65.9	197	285	790	1,340	815	182	86.0	45.7	33.2	19.6
Max.	54	118	317	451	1,164	1,430	1,343	309	119	64	40	32
Min.	18	27	87	156	234	1,152	319	120	65	32	28	13
Runoff - mcm.	87.955	176.602	510.451	757.728	2,139.437	3,473.712	2,182.464	471.398	230.947	122.602	83.289	55.123

WATER YEAR 1955 : Max. 1,430 Min. 13 Mean 325 Annual Runoff 10,291.709 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.19	06.00	30.20	1,430				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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: 32,878 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.90 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 - 68
Rated by Float:	-
Rated by Current Meter:	1965 - 68

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair, except those for period of no gage height record which are poor. Stage-discharge relation used is defined by discharge measurements made during 1965-67. No upstream state diversions for irrigation.

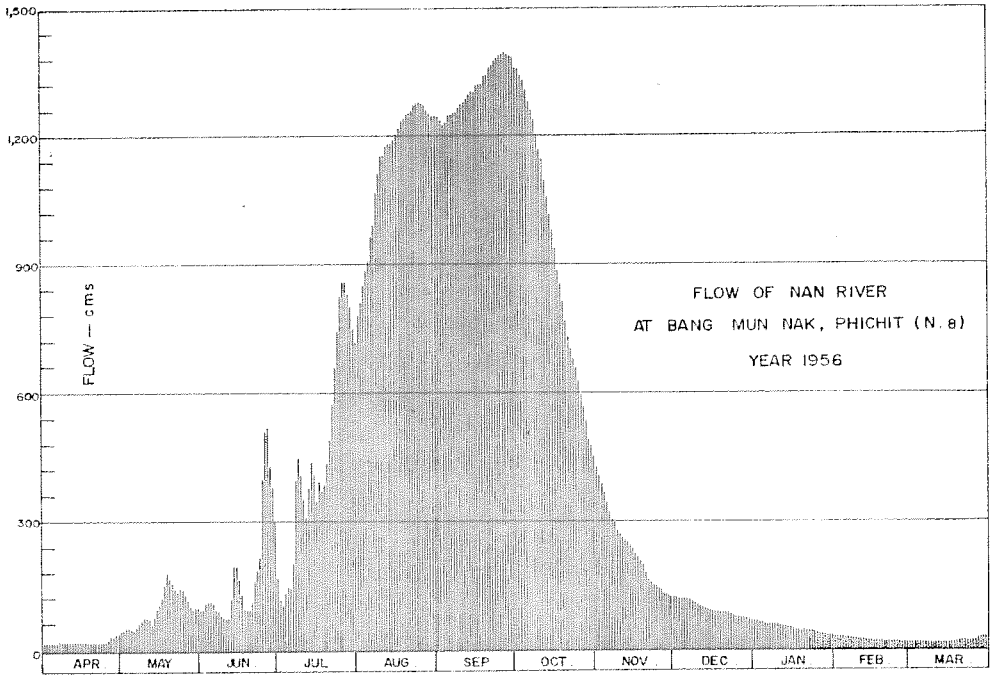
Remarks: * Gage - height estimated.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.73	21.39	22.23	23.16	* 27.73	29.67	30.00	25.52	22.65	21.83	21.24	20.92
2	.76	.46	.26	22.56	* .92	.64	.00	.37	.65	.81	.22	.91
3	.78	.52	.36	.39	* 28.13	.61	29.96	.22	.61	.79	.20	.91
4	.81	.52	.47	.72	* .31	.62	.92	.04	.60	.78	.20	.90
5	.82	.44	.49	.91	* .40	.67	.86	24.85	.60	.75	.18	.90
6	20.83	21.45	22.38	22.87	* 28.65	29.68	29.78	24.68	22.59	21.74	21.18	20.89
7	.84	.57	.25	23.53	* .78	.70	.72	.50	.54	.75	.16	.87
8	.86	.72	.18	25.28	29.08	.71	.64	.37	.50	.72	.13	.87
9	.88	.86	.02	.64	.24	.74	.54	.28	.46	.70	.10	.85
10	.88	.93	21.94	.38	.34	.76	.43	.19	.41	.67	.10	.85
11	20.88	21.92	21.93	24.92	29.39	29.77	29.31	24.10	22.38	21.64	21.08	20.84
12	.88	.89	.94	.56	.45	.80	.18	.04	.33	.63	.07	.84
13	.90	.68	22.59	25.11	.47	.83	.04	23.99	.31	.63	.05	.84
14	.89	.99	23.47	.62	.47	.85	28.88	.93	.27	.60	.05	.86
15	.88	22.24	.46	.40	.50	.85	.72	.84	.24	.58	.03	.88
16	20.87	22.42	23.13	24.87	29.55	29.89	28.54	23.74	22.20	21.56	21.01	20.89
17	.86	.60	22.72	25.27	.59	.90	.31	.67	.19	.52	.00	.92
18	.85	.98	.23	.07	.63	.90	.15	.59	.15	.50	20.99	.93
19	.83	23.30	.25	.20	.65	.95	27.93	.49	.12	.48	.97	.97
20	.82	.15	.20	.59	.68	.96	.68	.31	.10	.47	.96	21.01
21	20.82	23.00	22.46	25.99	29.70	30.00	27.50	23.10	22.10	21.45	20.95	21.00
22	.84	22.85	23.09	26.56	.72	.02	.33	.02	.07	.44	.95	20.99
23	.86	.79	.37	27.04	.75	.05	.18	22.96	.06	.43	.94	.97
24	.87	.88	.66	.57	.77	.06	.04	.92	.03	.40	.94	.97
25	.90	.84	25.32	.99	.77	.08	26.90	.88	.02	.37	.94	.99
26	21.08	22.69	26.16	28.17	29.77	30.09	26.69	22.83	22.01	21.33	20.93	21.03
27	.15	.48	.20	.17	.75	.10	.51	.77	21.99	.31	.92	.11
28	.19	.35	25.54	.02	.72	.09	.27	.69	.97	.30	.92	.17
29	.26	.22	.14	27.83	.69	.08	.09	.66	.94	.29		.20
30	.31	.27	24.48	.60	.67	.07	25.90	.65	.90	.27		.18
31		.28		.42	.67		* .71		.86	.24		.15
Mean	20.90	22.21	22.99	25.46	29.29	29.86	28.37	23.81	22.25	21.55	21.05	20.76
Max.	21.31	23.30	26.20	28.17	29.77	30.10	30.00	25.52	22.65	21.83	21.24	21.20
Min.	20.73	21.39	21.93	22.39	27.73	29.61	25.71	22.65	21.86	21.24	20.92	20.84

WATER YEAR 1956 : Max. 30.10 m. Min. 20.73 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	43	94	168	778	1,245	1,357	426	125	68	35	21
2	15	46	96	118	810	1,235	1,357	406	125	67	34	20
3	15	49	102	103	849	1,223	1,342	388	122	65	33	20
4	16	49	111	131	885	1,229	1,327	367	121	65	33	20
5	17	46	113	147	907	1,245	1,306	344	121	65	32	20
6	17	46	103	143	961	1,249	1,278	323	120	62	32	20
7	18	53	95	203	991	1,252	1,259	304	117	62	31	19
8	18	61	91	396	1,067	1,255	1,236	288	114	61	30	19
9	19	70	80	442	1,112	1,265	1,201	278	110	60	28	18
10	19	74	74	408	1,141	1,272	1,167	269	105	58	28	18
11	19	73	74	352	1,155	1,275	1,133	260	103	57	27	18
12	19	71	74	309	1,173	1,285	1,094	254	100	56	27	18
13	20	59	120	375	1,179	1,295	1,056	248	99	56	26	18
14	20	77	197	439	1,179	1,302	1,015	243	97	55	26	18
15	19	95	196	411	1,188	1,302	978	234	95	54	25	19
16	19	106	165	346	1,204	1,316	936	224	92	52	24	20
17	18	121	131	394	1,217	1,320	885	217	92	49	24	21
18	18	152	94	371	1,233	1,320	853	209	90	48	24	21
19	17	180	95	386	1,239	1,338	812	199	89	47	23	23
20	17	167	92	436	1,249	1,342	766	181	88	47	22	24
21	17	154	110	489	1,252	1,357	730	162	88	46	22	24
22	18	141	162	574	1,258	1,364	702	156	85	46	22	24
23	18	136	187	657	1,268	1,375	677	151	84	45	22	23
24	19	144	216	744	1,275	1,379	657	148	81	44	22	23
25	20	140	400	823	1,275	1,387	628	144	80	42	22	24
26	27	129	510	857	1,275	1,390	594	139	79	40	21	25
27	31	112	520	857	1,268	1,394	566	131	77	39	21	29
28	32	101	429	829	1,259	1,390	534	129	76	38	21	31
29	36	93	379	800	1,252	1,387	499	126	74	37		33
30	39	97	301	750	1,245	1,383	477	125	72	36		32
31		98		717	1,245		452		70	35		31
Total	611	2,983	5,411	14,175	35,389	39,371	28,874	7,073	2,991	1,600	737	694
Mean	20.4	96.2	180	457	1,141	1,312	931	236	96.5	51.6	26.3	22.4
Max.	39	180	520	857	1,275	1,394	1,357	426	125	68	35	33
Min.	14	43	74	103	778	1,223	452	125	70	35	21	18
Runoff - MCM.	52.790	257.731	467.510	1,224.720	3,057.610	3,401.654	2,494.713	611.107	258.422	138.240	63.677	59.961

WATER YEAR 1956 : Max. 1,394 Min. 14 Mean 383 Annual Runoff 12,088.138 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	18.00	30.10	1,394				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Kaeng U-Luang, Uttaradit (N.9)

Location: Lat 18°- 02' - 03" N, Long 100°- 34' - 38" E, on left bank 3 kilometers upstream from Ban Pak Nam Li, Amphoe Tha Pla, Uttaradit.

Drainage Area: 11,695 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +87.00 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: 1952 - 58

Rating Operation:

Period of Rating: 1952 - 54
Rated by Float: -
Rated by Current Meter: 1952 - 54

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

Overbank Flow Conditions: No overbank flow.

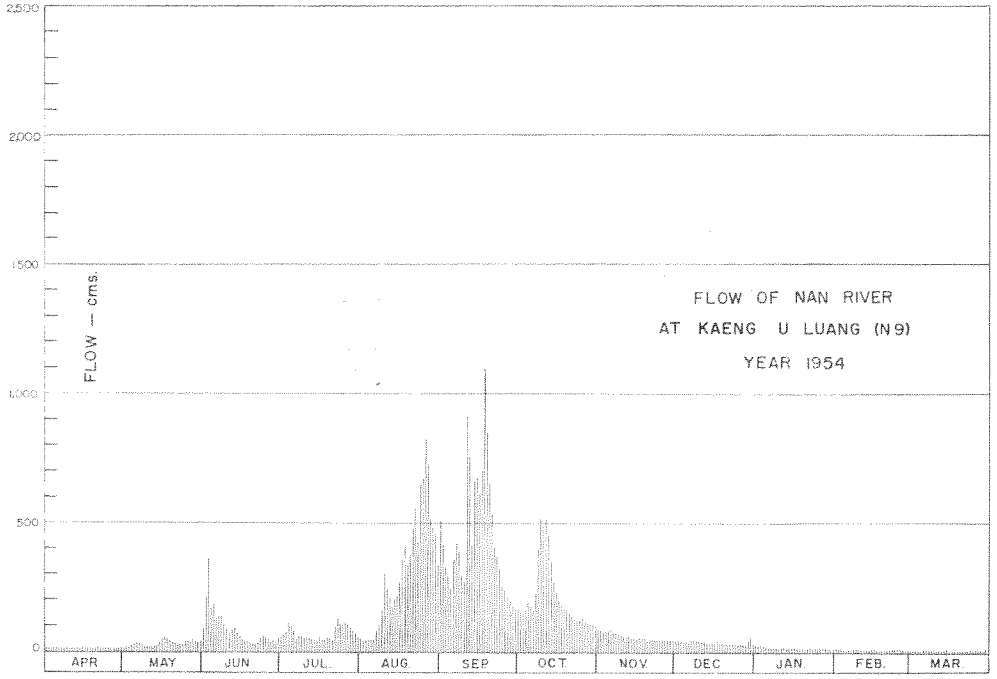
General Description: Records fair. Stage - discharge relation used is defined by discharge measurement made during 1954. No state diversions above gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	88.97	88.95	89.77	89.40	89.44	92.21	90.34	89.82	89.35	89.12	88.94	88.86
2	.97	.98	90.51	.58	.40	91.87	.31	.80	.34	.10	.93	.85
3	.97	89.05	91.76	.75	.40	.36	.28	.79	.33	.09	.93	.84
4	.96	.06	90.98	90.02	.42	.12	.41	.78	.34	.08	.93	.84
5	.96	.16	.48	89.84	.38	90.94	.61	.82	.33	.07	.92	.83
6	88.95	89.19	90.12	89.66	89.37	91.52	90.50	89.77	89.33	89.06	88.92	88.82
7	.95	.17	.19	.54	.71	.86	.41	.72	.43	.05	.91	.82
8	.93	.10	.17	.51	.96	.66	.49	.68	.36	.05	.91	.81
9	.92	.05	89.95	.50	90.34	.24	91.30	.65	.36	.04	.90	.81
10	.92	.02	.75	.44	91.23	.02	92.08	.63	.33	.05	.90	.81
11	88.92	89.02	89.61	89.46	90.98	93.94	91.96	89.61	89.31	89.02	88.89	88.80
12	.92	.00	.72	.45	.74	.36	92.01	.59	.31	.02	.89	.80
13	.92	.02	.77	.37	.49	92.24	91.64	.57	.29	.02	.89	.80
14	.91	.08	.62	.32	.71	.64	.14	.55	.27	.02	.89	.80
15	.90	.28	.51	.29	.75	.92	.09	.53	.26	.02	.89	.80
16	88.90	89.37	89.42	89.36	90.99	93.01	90.90	89.53	89.26	89.02	88.89	88.80
17	.90	.46	.35	.29	91.40	.15	.60	.50	.25	.01	.88	.80
18	.89	.43	.33	.38	.60	94.30	.46	.52	.25	.01	.88	.80
19	.89	.39	.29	.47	.65	93.62	.37	.48	.23	.00	.88	.80
20	.89	.29	.24	.41	.57	92.72	.42	.48	.23	.00	.89	.80
21	88.88	89.22	89.21	89.34	91.99	92.29	90.27	89.46	89.20	88.99	88.89	88.80
22	.92	.18	.26	.78	92.24	.05	.23	.44	.22	.99	.89	.80
23	.88	.17	.46	90.10	91.77	91.65	.19	.43	.21	.99	.89	.79
24	.88	.17	.55	89.97	92.53	.31	.15	.41	.20	.98	.89	.77
25	.88	.25	.44	.88	.45	.12	.11	.40	.20	.97	.90	.77
26	88.88	89.29	89.35	90.02	95.16	90.90	90.09	89.39	89.23	88.97	88.89	88.76
27	.89	.28	.30	89.95	92.77	.70	.05	.39	.19	.96	.88	.75
28	.95	.40	.31	.87	.05	.56	89.97	.38	.18	.96	.89	.77
29	.98	.29	.33	.65	91.04	.43	.93	.36	.19	.95		.80
30	.97	.25	.40	.57	.79	.37	.89	.37	.49	.95		.99
31		.24		.49	.38		.85	.36	.25	.94		89.28
Mean	88.92	89.19	89.75	89.60	91.05	91.93	90.59	89.56	89.28	89.02	88.90	88.86
Max.	88.98	89.46	91.76	90.10	95.16	94.30	92.08	89.82	89.49	89.12	88.94	89.28
Min.	88.88	88.95	89.21	89.29	89.37	90.37	89.85	89.36	89.18	88.94	88.88	88.75

WATER YEAR 1954 : Max. 94.30 m. Min. 88.75 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	14	82	50	55	504	160	87	42	24	12	8.00
2	12	13	181	72	44	424	155	87	41	22	12	7.50
3	13	18	360	78	49	322	149	78	40	21	12	7.00
4	11	20	261	118	50	295	167	89	41	21	12	7.00
5	12	31	184	102	46	245	197	83	40	20	11	6.50
6	12	32	125	82	47	350	182	89	40	20	11	6.00
7	12	32	138	49	81	420	167	75	49	19	11	6.00
8	11	25	142	67	104	386	181	72	45	19	11	5.50
9	10	20	104	66	146	297	322	72	43	18	10	5.50
10	11	18	83	56	308	272	517	65	40	18	10	5.50
11	11	20	72	60	237	909	490	62	39	17	10	5.00
12	11	15	87	62	219	742	515	59	39	17	10	5.00
13	11	18	91	51	178	418	466	61	37	17	10	5.00
14	10	23	75	49	202	657	506	50	35	17	10	5.00
15	10	38	60	48	216	672	266	53	35	17	10	5.00
16	11	45	52	52	257	612	239	47	35	17	10	5.00
17	11	55	48	43	354	682	197	56	34	17	9.50	5.00
18	11	52	46	44	408	1,094	178	61	32	17	9.50	5.00
19	10	48	40	56	386	885	160	53	32	16	9.50	5.00
20	11	35	34	56	366	638	166	48	32	16	10	5.00
21	11	33	31	48	446	499	149	49	30	15	10	5.00
22	11	28	35	95	567	420	138	48	31	15	10	5.00
23	9.50	29	57	131	418	354	129	48	31	15	10	4.70
24	11	27	68	102	648	308	125	47	30	15	10	4.10
25	11	34	57	104	638	245	118	47	30	14	10	4.10
26	10	40	43	115	821	239	134	46	32	14	10	3.80
27	10	39	42	105	721	213	109	46	29	14	9.50	3.50
28	12	46	43	97	512	190	113	45	28	14	10	4.10
29	14	39	39	75	482	176	115	44	29	13		5.00
30	12	34	55	67	460	164	106	43	55	13		15
31		37		58	330		97		34	12		36
Total	336.50	958	2,735	2,258	9,748	13,630	6,513	1,810	1,130	524	290.00	204.80
Mean	11.2	30.9	91.2	72.8	316	454	210	60.3	36.4	16.9	10.3	6.61
Max.	14	55	360	131	821	1,094	517	89	55	24	12	36
Min.	9.50	13	31	43	44	164	97	43	28	12	9.50	3.50
Runoff - mcm.	29.050	82.771	236.304	195.091	842.227	1,177.632	565.056	156.384	97.632	45.274	25.056	17.695

WATER YEAR 1954 : Max. 1,094 Min. 3.50 Mean 110 Annual Runoff 3,467.863 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.18	06.00	94.42	1,132				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Kaeng U - Luang, Uttaradit (N.9)

Location: Lat 18°- 02' - 03" N, Long 100°- 34' - 38" E, on left bank 5 kilometers upstream from Ban Pak Nam Li, Amphoe Tha Pla, Uttaradit.

Drainage Area: 11,695 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +87.00 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: 1952 - 58

Rating Operation:

Period of Rating:	1952 - 54
Rated by Float:	-
Rated by Current Meter:	1952 - 54

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

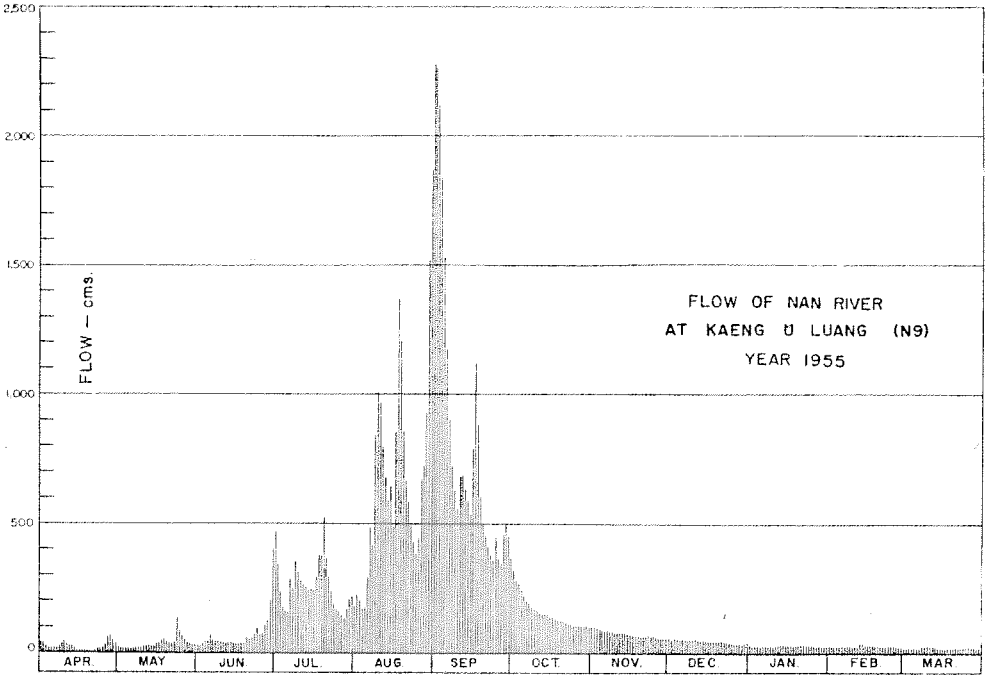
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No state diversions above gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	89.39	89.07	89.20	92.02	90.46	97.75	91.45	89.89	89.48	89.26	89.15	89.05
2	.26	.01	.18	91.35	.78	.71	.20	.88	.47	.26	.16	.05
3	.06	.05	.19	90.71	.63	.23	.02	.83	.46	.25	.15	.05
4	88.95	.03	.39	.42	.39	96.32	90.97	.80	.46	.25	.15	.05
5	.94	.01	.34	.33	.45	95.25	.83	.78	.45	.24	.14	.04
6	88.92	88.97	89.63	90.30	90.50	94.61	90.68	89.75	89.45	89.24	89.13	89.04
7	.97	.95	.43	91.07	92.09	93.86	.58	.75	.44	.23	.13	.05
8	89.11	.99	.39	90.84	91.75	.17	.50	.71	.44	.23	.13	.06
9	.32	89.02	.55	91.45	93.49	92.74	.41	.70	.44	.23	.13	.11
10	.35	.02	.28	.20	94.08	.39	.37	.69	.44	.22	.14	.15
11	89.20	89.06	89.51	91.02	93.96	92.95	90.33	89.69	89.43	89.21	89.12	89.11
12	.15	.15	.30	90.96	.33	.95	.25	.69	.42	.21	.12	.15
13	.10	.13	.27	.91	92.99	.75	.25	.69	.40	.20	.24	.08
14	.00	.13	.28	.87	.56	.51	.25	.67	.40	.21	.21	.05
15	88.89	.13	.25	.88	.77	.31	.22	.65	.39	.21	.20	.03
16	88.88	89.30	89.23	90.85	92.10	93.07	90.17	89.63	89.38	89.20	89.19	89.03
17	.87	.27	.23	91.07	93.43	94.45	.14	.62	.37	.20	.16	.05
18	.86	.38	.24	.56	95.21	93.91	.11	.61	.36	.20	.14	.04
19	.84	.45	.23	.94	94.69	.52	.07	.60	.36	.20	.14	.03
20	.84	.30	.46	92.26	93.56	.15	.05	.58	.36	.20	.16	.08
21	88.83	89.26	89.41	91.58	92.81	91.95	90.05	89.57	89.36	89.19	89.10	89.06
22	.88	.26	.49	.13	.59	.69	.01	.56	.35	.19	.10	.03
23	89.00	.40	.56	90.86	.13	.53	89.97	.55	.34	.19	.10	.04
24	88.98	90.15	.85	.59	91.78	.45	.95	.55	.33	.18	.11	.02
25	89.01	89.77	.57	.38	.57	.90	.92	.55	.32	.18	.12	.04
26	89.16	89.49	89.60	90.32	91.82	91.44	89.90	89.53	89.31	89.18	89.11	89.04
27	.45	.41	.91	.19	92.85	.40	.89	.52	.30	.17	.09	.02
28	.55	.30	90.06	.12	93.14	.97	.69	.51	.30	.17	.07	.02
29	.38	.25	.09	.20	94.12	92.16	.91	.50	.29	.16	.06	.03
30	.21	.22	91.60	.62	95.58	91.90	.90	.49	.28	.16		.03
31		.21		.73	96.35		.88		.27	.15		.05
Mean	89.08	89.23	89.51	90.91	92.72	93.23	90.29	89.65	89.38	89.20	89.14	89.05
Max.	89.55	90.15	91.60	92.26	96.35	97.75	91.45	89.89	89.48	89.26	89.24	89.15
Min.	88.83	88.95	89.18	90.12	90.39	91.40	89.88	89.49	89.27	89.15	89.06	89.02

WATER YEAR 1955 : Max. 97.75 m. Min. 88.83 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	46	20	30	468	178	2,270	354	100	54	35	26	19
2	35	17	28	334	229	2,254	304	99	53	35	27	19
3	20	19	29	318	285	2,073	272	93	52	34	26	19
4	13	18	46	172	169	1,745	263	89	52	34	26	19
5	12	17	41	160	177	1,381	257	87	51	33	25	18
6	11	14	69	156	184	1,167	213	85	51	35	24	18
7	14	13	49	281	484	936	197	81	50	32	24	19
8	23	15	46	339	414	744	184	78	50	32	24	21
9	39	17	42	354	829	636	171	77	50	32	24	23
10	42	17	36	304	1,002	552	166	76	50	31	25	26
11	30	20	39	272	966	687	160	76	49	31	24	23
12	26	26	38	261	780	687	149	76	49	31	24	24
13	22	24	35	252	697	658	149	76	46	30	33	21
14	16	24	36	245	592	580	149	74	46	31	31	19
15	9.50	24	34	246	643	572	145	71	46	31	30	18
16	9.00	38	32	241	486	718	138	69	45	30	29	18
17	8.50	35	32	281	812	1,116	134	68	44	30	27	19
18	8.00	45	33	376	1,367	677	129	67	43	30	25	18
19	7.00	51	32	492	1,193	583	124	66	43	30	25	18
20	7.00	38	52	521	849	497	120	64	43	30	27	21
21	6.50	35	47	380	652	454	120	63	43	29	22	20
22	9.00	35	55	291	600	402	115	62	42	29	22	18
23	16	46	62	245	495	370	110	61	41	29	22	18
24	15	135	95	198	420	354	107	61	40	28	23	18
25	17	85	63	167	378	444	104	61	39	26	24	18
26	27	55	66	159	428	352	101	59	39	29	23	18
27	51	47	102	141	662	344	100	58	38	27	21	17
28	61	38	122	131	756	458	100	57	38	27	20	17
29	45	34	127	142	1,014	499	102	56	37	27	20	18
30	31	31	384	203	1,493	444	101	55	36	27		18
31		31		221	1,748		99		35	26		19
Total	676.50	1,064	1,902	8,110	20,886	24,594	4,917	2,163	1,395	941	723	599
Mean	22.6	34.3	63.4	262	673	820	159	72.1	45.0	30.4	24.9	19.3
Max.	61	135	384	521	1,748	2,270	354	100	54	35	33	26
Min.	6.50	13	28	131	169	344	99	55	35	26	20	17
Runoff - MCM.	58.450	91.930	164.333	700.704	1,804.550	2,124.921	424.829	186.883	120.528	81.302	62.467	51.754

WATER YEAR 1955 : Max. 2,270 Min. 6.50 Mean 185 Annual Runoff 5,865.739 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 1	15.00	97.80	2,290				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Kaeng U-Luang, Uttaradit (N.9)

Location: Lat 18°- 02' - 03" N, Long 100°- 34' - 38" E, on left bank 3 kilometers upstream from Ban Pak Nam Li, Amphoe Tha Pla, Uttaradit.

Drainage Area: 11,695 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +87.00 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: 1952 - 58

Rating Operation:

Period of Rating: 1952 - 54
Rated by Float: -
Rated by Current Meter: 1952 - 54

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

Overbank Flow Conditions: No overbank flow.

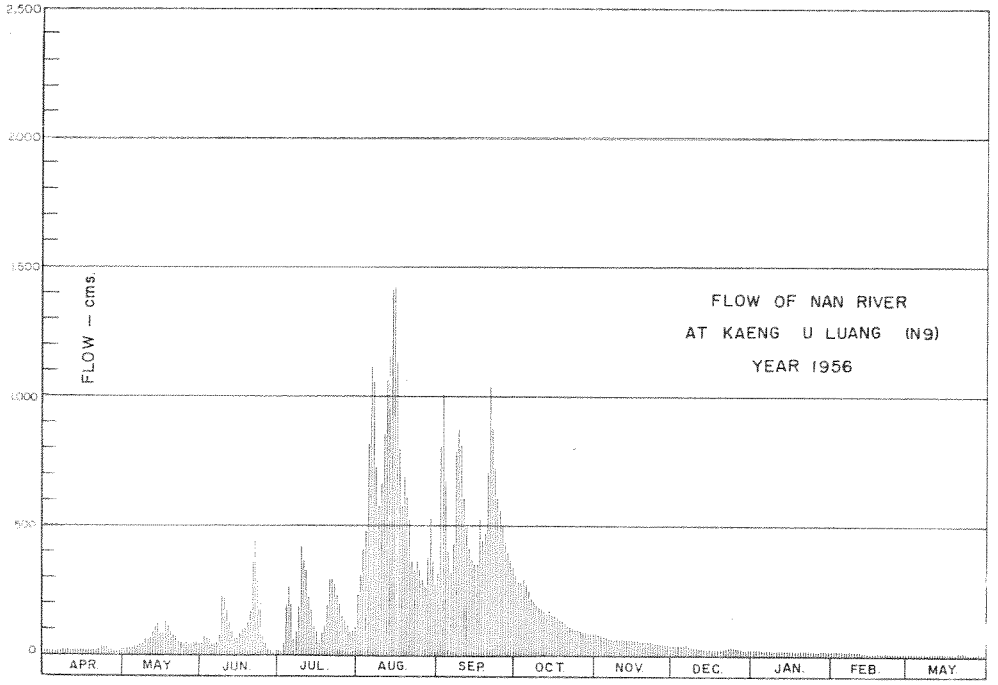
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No state diversions above gage site.

Remarks: Gage - height record for period Sep.24 - Mar.31, obtained from correlation between N.9 and N.6A.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	89.07	89.13	89.36	89.08	90.76	91.29	91.25	89.79	89.38	89.02	88.92	88.86
2	.05	.18	.68	.06	91.14	93.35	.09	.74	.36	.01	.92	.85
3	.02	.18	.58	.13	.71	.21	.07	.70	.36	.01	.92	.85
4	.03	.20	.55	90.56	92.14	92.76	.17	.67	.34	.00	.92	.85
5	.03	.19	.41	.98	.96	.49	.09	.65	.34	88.99	.92	.85
6	89.04	89.23	89.37	90.63	94.44	92.04	90.91	89.62	89.34	88.99	88.91	88.84
7	.04	.28	.39	89.48	.24	.11	.77	.60	.31	.99	.91	.84
8	.06	.32	.45	.43	92.98	93.22	.67	.61	.29	.98	.91	.84
9	.08	.32	90.76	90.46	.51	.65	.60	.59	.26	.98	.91	.86
10	.07	.57	.93	91.78	.72	.40	.53	.59	.23	.98	.90	.85
11	89.05	89.53	90.47	91.53	93.50	92.64	90.49	89.58	89.20	88.97	88.90	88.83
12	.06	.55	.07	.31	94.31	.52	.41	.57	.19	.97	.90	.84
13	.06	.68	89.80	90.84	.45	.26	.35	.55	.18	.97	.90	.83
14	.07	.94	.63	.44	95.33	.46	.43	.54	.18	.97	.89	.83
15	.12	90.07	.62	.10	.36	.74	.33	.55	.16	.97	.89	.83
16	89.10	89.76	89.79	89.83	94.90	91.30	90.31	89.54	89.15	88.96	88.89	88.83
17	.04	.69	.90	.51	93.24	92.30	.25	.53	.14	.96	.89	.83
18	.11	90.13	.93	.77	92.49	91.89	.18	.52	.12	.95	.89	.84
19	.06	.02	90.06	.85	.96	.75	.14	.50	.12	.94	.88	.86
20	.06	89.79	.37	90.38	.61	92.74	.09	.49	.10	.94	.88	.92
21	89.10	89.65	91.40	91.15	92.29	94.20	90.03	89.48	89.10	88.94	88.88	88.90
22	.15	.54	.91	.14	91.50	93.62	89.97	.46	.10	.94	.88	.90
23	.26	.46	.03	.05	.30	92.81	.94	.44	.09	.94	.87	.88
24	.26	.43	90.30	90.82	.50	93.12	.91	.44	.09	.94	.87	.87
25	.27	.41	89.76	.61	.36	92.57	.89	.42	.08	.93	.87	.86
26	89.09	89.44	89.35	90.31	91.19	92.17	89.87	89.42	89.07	88.93	88.87	88.84
27	.06	.42	.16	.17	90.99	91.89	.84	.42	.05	.93	.86	.83
28	.03	.39	.09	.04	91.51	.67	.82	.41	.05	.93	.86	.83
29	.05	.40	.04	89.81	92.31	.52	.80	.40	.05	.93		.83
30	.09	.48	.16	.85	91.37	.41	.80	.40	.05	.93		.86
31		.41		.95	.04		.80		.03	.93		.88
Mean	89.09	89.51	89.91	90.30	92.62	92.47	90.38	89.54	89.18	89.96	88.90	88.85
Max.	89.27	90.13	91.91	91.78	95.36	94.20	91.25	89.79	89.38	89.02	88.92	88.92
Min.	89.02	89.13	89.04	89.06	90.76	91.29	89.80	89.40	89.03	88.93	88.86	88.83

WATER YEAR 1956 : Max. 95.36 m. Min. 88.83 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20	24	43	21	226	522	314	88	45	17	11	8.00
2	19	28	75	20	293	791	284	82	43	17	11	7.50
3	17	28	64	24	406	755	281	77	43	17	11	7.50
4	18	30	61	194	495	640	299	74	41	16	11	7.50
5	18	29	47	264	690	576	284	71	41	15	11	7.50
6	18	32	44	205	1,113	473	252	68	41	15	11	7.00
7	18	36	46	54	1,050	488	227	66	39	15	11	7.00
8	20	40	51	49	695	757	211	67	37	15	11	7.00
9	21	40	226	178	580	874	200	65	35	15	11	8.00
10	20	63	255	420	631	804	189	65	32	15	10	7.50
11	19	59	180	370	832	612	183	64	30	14	10	6.50
12	20	61	124	326	1,071	583	171	65	29	14	10	7.00
13	20	75	89	239	1,116	544	163	61	28	14	10	6.50
14	20	106	69	176	1,408	568	174	60	28	14	9.50	6.50
15	24	124	68	128	1,418	412	160	61	27	14	9.50	6.50
16	22	84	88	93	1,262	324	157	60	26	14	9.50	6.50
17	18	76	101	57	762	530	149	59	25	14	9.50	6.50
18	23	132	105	85	576	442	139	58	24	13	9.50	7.00
19	20	117	122	95	690	414	134	56	24	12	9.00	8.00
20	20	88	166	167	604	636	127	55	22	12	9.00	11
21	22	71	344	295	528	1,058	118	54	22	12	9.00	10
22	26	60	446	293	364	856	110	52	22	12	9.00	10
23	35	52	273	277	324	652	106	50	21	12	8.50	9.00
24	35	49	156	236	364	731	102	50	21	12	8.50	8.50
25	35	47	84	202	336	595	100	48	21	12	8.50	8.00
26	21	50	42	157	302	501	97	48	20	12	8.50	7.00
27	20	48	27	138	266	442	94	48	19	12	8.00	6.50
28	18	46	21	120	366	398	91	47	19	12	8.00	6.50
29	19	46	18	90	532	368	89	46	19	12		6.50
30	21	54	27	95	338	346	89	46	19	12		8.00
31		47		107	275		89		18	12		9.00
Total	647	1,842	3,462	5,175	19,913	17,482	5,183	1,809	881	424	272.50	236.50
Mean	21.6	59.4	115	167	642	582	167	60.3	28.4	13.7	9.73	7.61
Max.	35	132	446	420	1,418	1,058	314	88	45	17	11	11
Min.	17	24	18	20	226	322	89	46	18	12	8.00	6.50
Runoff - mcm.	55.901	159.149	299.117	447.120	1,720.483	1,510.445	447.811	156.297	76.118	36.634	23.544	20.390

WATER YEAR 1956 : Max. 1,418 Min. 6.50 Mean 156 Annual Runoff 4,920.653 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 15	09.00	95.67	1,524				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
NAN RIVER BASIN

Nan River at Taphan Hin, Phichit (N.10)

Location: Lat 16°- 13' - 03" N, Long 100°- 25' - 26" E, on right bank one kilometer downstream from Wat Thao Prueat, Tambon Nuai Ket, Amphoe Taphan Hin, Phichit.

Drainage Area: 30,760 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +23.41 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: Near the gage site.
Elevation: +33.173 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 - 69

Rating Operation:

Period of Rating: 1965 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

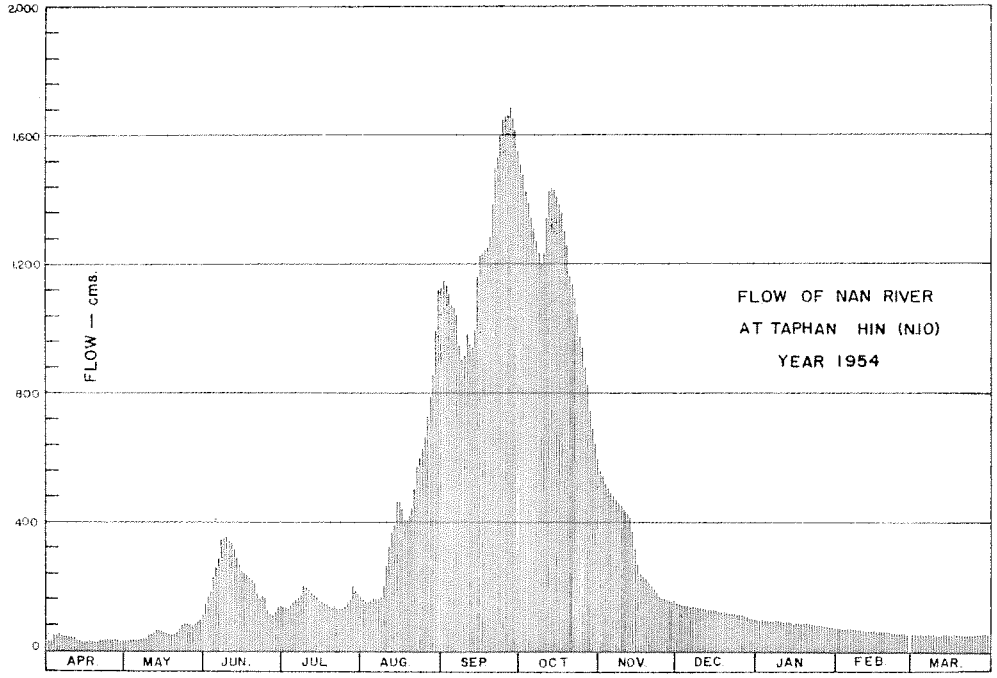
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.81	23.43	24.95	24.83	25.11	31.29	32.61	28.02	24.96	24.37	24.04	23.74
2	.79	.42	25.21	.81	.07	.23	.49	27.91	.92	.36	.03	.73
3	.72	.40	.36	.81	.02	.12	.34	.76	.90	.35	.02	.72
4	.67	.44	.81	.91	.06	30.93	.24	.69	.88	.34	.00	.71
5	.71	.44	26.06	25.01	.13	.90	.07	.62	.88	.30	23.99	.72
6	23.64	23.46	26.33	25.10	25.10	30.79	31.94	27.56	24.86	24.32	23.98	23.73
7	.60	.50	.66	.18	.11	.32	.81	.49	.84	.31	.98	.72
8	.59	.54	.71	.27	.18	.06	.71	.42	.85	.30	.97	.71
9	.59	.60	.69	.51	.56	.16	.51	.35	.82	.29	.95	.70
10	.58	.73	.63	.46	26.11	.51	.66	.28	.81	.28	.94	.69
11	23.57	23.80	26.59	25.39	26.56	30.31	32.10	27.25	24.79	24.27	23.93	23.69
12	.54	.88	.42	.29	.83	.27	.36	.21	.77	.26	.92	.70
13	.52	.94	.24	.23	27.01	.71	.41	.08	.76	.25	.92	.71
14	.51	.94	.08	.18	.47	31.48	.37	26.76	.75	.24	.90	.71
15	.50	.92	25.89	.01	.48	.62	.26	.45	.74	.23	.89	.72
16	23.50	23.86	25.84	25.01	27.28	31.66	32.22	26.06	24.72	24.22	23.88	23.73
17	.49	.79	.77	24.99	.10	.71	.14	25.82	.70	.21	.87	.72
18	.48	.75	.71	.94	.07	.73	31.96	.74	.68	.20	.86	.71
19	.47	.75	.65	.84	.20	.86	.71	.68	.66	.19	.85	.70
20	.46	.78	.58	.81	.46	32.21	.40	.59	.65	.18	.84	.69
21	23.45	23.83	25.23	24.82	27.91	32.57	31.25	25.49	24.63	24.17	23.83	23.70
22	.44	.94	.10	.81	28.18	.71	.01	.38	.62	.16	.82	.69
23	.45	24.12	.20	.82	.34	.88	30.72	.29	.60	.15	.80	.68
24	.44	.23	.15	.86	.55	.98	.47	.19	.58	.14	.79	.68
25	.43	.20	24.58	.86	.76	33.01	.27	.14	.56	.13	.78	.69
26	23.42	24.16	24.56	24.94	29.16	33.01	29.86	25.11	24.54	24.12	23.77	23.70
27	.42	.11	.55	25.09	.56	.07	.64	.08	.52	.10	.76	.71
28	.43	.23	.70	.50	.91	32.97	.15	.06	.51	.09	.75	.72
29	.42	.33	.86	.39	30.61	.87	28.78	.04	.40	.08		.71
30	.42	.39	.90	.29	31.15	.70	.56	.01	.39	.07		.70
31		.60		.19	.21		.26		.38	.05		.69
Mean	23.54	23.87	25.63	25.08	27.51	31.74	31.34	26.48	24.70	24.21	23.90	23.70
Max.	23.81	24.60	26.71	25.51	31.21	33.07	32.61	28.02	24.96	24.37	24.04	23.74
Min.	23.42	23.42	24.55	24.81	25.02	30.06	28.26	25.01	24.38	24.05	23.75	23.69

WATER YEAR 1954 : Max. 33.07 m. Min. 23.42 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56	32	148	137	163	1,148	1,508	553	148	98	72	51
2	54	32	173	135	159	1,134	1,466	535	145	97	71	50
3	49	32	188	135	154	1,110	1,417	515	143	96	70	49
4	46	33	237	144	158	1,069	1,386	500	141	95	69	49
5	49	33	268	153	165	1,063	1,339	480	141	94	68	49
6	44	34	308	162	162	1,040	1,305	480	139	94	68	50
7	42	36	348	170	163	947	1,272	470	138	93	68	49
8	41	38	355	179	170	900	1,246	459	137	92	67	49
9	41	42	353	204	210	918	1,198	449	136	91	65	48
10	41	50	344	199	274	983	1,234	438	135	90	65	47
11	40	55	339	191	334	945	1,347	431	133	90	64	47
12	38	61	315	181	372	938	1,423	428	131	89	63	48
13	37	65	291	175	397	1,023	1,439	408	130	88	63	49
14	36	65	270	170	466	1,191	1,426	362	129	87	62	49
15	36	63	247	153	468	1,225	1,392	312	129	86	61	49
16	36	59	241	153	438	1,234	1,380	268	127	86	61	50
17	35	54	233	151	411	1,246	1,358	238	125	85	60	49
18	35	51	226	147	406	1,251	1,311	229	123	84	59	49
19	34	51	219	138	426	1,285	1,246	225	121	83	58	48
20	34	54	212	135	465	1,377	1,173	213	120	82	58	47
21	33	57	175	136	536	1,493	1,139	202	119	82	57	48
22	33	65	162	135	579	1,544	1,086	190	118	81	56	47
23	33	82	172	136	604	1,607	1,025	181	116	80	55	47
24	33	86	167	139	638	1,645	975	171	114	79	54	47
25	32	84	114	139	672	1,657	938	166	113	78	54	47
26	32	81	113	147	740	1,657	854	163	111	78	53	48
27	32	77	112	161	810	1,680	824	160	110	76	52	49
28	32	86	125	203	873	1,641	758	158	109	75	51	49
29	32	94	139	191	1,002	1,605	676	156	100	75		49
30	32	99	143	181	1,117	1,540	640	153	99	74		48
31		116		171	1,130		592		98	72		47
Total	1,148	1,867	6,732	4,951	14,662	38,094	36,363	9,701	3,878	2,650	1,724	1,502
Mean	38.3	60.2	224	160	473	1,270	1,173	323	125	85.5	61.6	48.4
Max.	56	116	355	204	1,130	1,680	1,508	553	148	98	72	51
Min.	32	32	112	135	154	900	592	153	98	72	51	47
Runoff — mcm.	99.187	161.309	581.645	427.766	1,266.797	3,291.322	3,141.763	838.166	335.059	228.960	148.954	129.773

WATER YEAR 1954 : Max. 1,680 Min. 32 Mean 338 Annual Runoff 10,650.701 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.27	06.00	33.09	1,688				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
NAN RIVER BASIN

Nan River at Taphan Hin, Phichit (N.10)

Location: Lat 16°- 13' - 03" N, Long 100°- 25' - 26" E, on right bank one kilometer downstream from Wat Thao Praset, Tambon Huai Ket, Amphoe Taphan Hin, Phichit.

Drainage Area: 30,760 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +23.41 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: Near the gage site.
Elevation: +33.173 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 - 69

Rating Operation:

Period of Rating: 1965 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

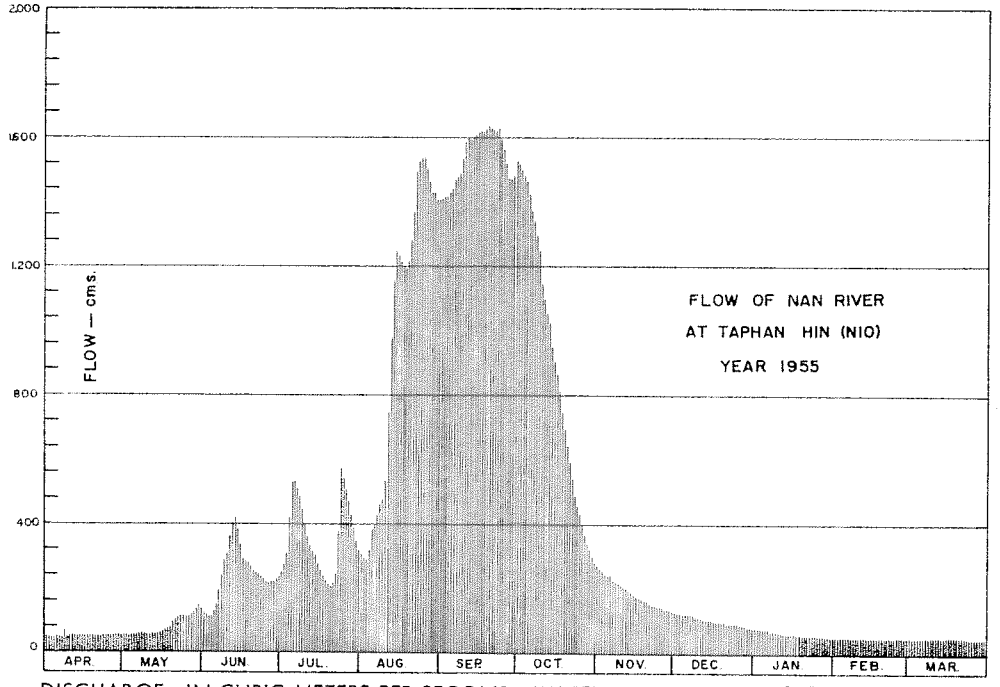
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1964. No upstream state diversion for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.68	23.78	24.70	25.98	26.36	32.32	32.64	26.08	24.74	24.13	23.79	23.71
2	.67	.79	.63	26.16	.26	.33	.58	.01	.71	.12	.78	.71
3	.66	.80	.56	.51	.26	.33	.54	25.94	.69	.10	.78	.71
4	.65	.81	.61	27.12	.50	.36	.47	.89	.67	.08	.78	.72
5	.66	.82	.81	.87	.92	.44	.31	.84	.66	.06	.77	.72
6	23.67	23.83	25.16	27.91	27.06	32.50	32.17	25.85	24.65	24.04	23.76	23.72
7	.68	.85	.66	.75	.31	.53	.06	.71	.63	.02	.76	.73
8	.69	.85	26.01	.61	.48	.57	31.89	.68	.61	.00	.75	.73
9	.70	.83	.30	.31	.56	.67	.69	.64	.59	23.98	.75	.73
10	.71	.81	.61	26.98	28.09	.82	.25	.59	.57	.96	.75	.73
11	23.73	23.82	26.86	26.76	28.75	32.85	30.99	25.54	24.55	23.94	23.75	23.73
12	.74	.84	27.12	.55	30.40	.83	.83	.50	.53	.93	.74	.72
13	.75	.86	.17	.45	31.34	.85	.66	.44	.51	.93	.74	.72
14	.76	.88	26.86	.36	.72	.88	.24	.38	.49	.89	.73	.72
15	.75	.90	.46	.14	.66	.90	.06	.31	.47	.89	.73	.72
16	23.75	23.95	26.25	25.98	31.58	32.91	29.81	25.24	24.45	23.88	23.73	23.71
17	.75	24.01	.21	.85	.51	.91	.44	.21	.43	.87	.72	.71
18	.73	.09	.16	.72	.50	.92	.09	.17	.41	.86	.72	.71
19	.72	.21	.01	.62	.62	.95	28.86	.13	.38	.85	.72	.71
20	.71	.37	25.95	.56	.92	.94	.49	.09	.37	.85	.72	.71
21	23.71	24.46	25.91	25.66	32.20	32.92	28.16	25.04	24.34	23.84	23.71	23.71
22	.70	.55	.88	26.03	.57	.89	27.81	.00	.32	.84	.71	.71
23	.71	.60	.81	27.01	.60	.89	.51	24.96	.29	.83	.71	.70
24	.72	.59	.74	28.16	.68	.83	.37	.93	.30	.83	.71	.70
25	.73	.55	.67	27.94	.69	.77	.21	.91	.28	.82	.72	.69
26	23.74	24.56	25.65	27.73	32.60	32.58	26.99	24.90	24.26	23.82	23.72	23.69
27	.75	.63	.69	.51	.48	.51	.79	.89	.24	.81	.72	.69
28	.75	.73	.70	.19	.38	.50	.62	.86	.22	.81	.72	.68
29	.76	.88	.75	26.86	.38	.54	.49	.82	.19	.80	.71	.68
30	.77	.94	.84	.59	.31	.66	.32	.78	.17	.80		.68
31		.82		.46	.31		.17		.15	.80		.68
Mean	23.73	24.20	25.92	26.79	30.51	32.70	29.60	25.36	24.45	23.91	23.73	23.71
Max.	23.99	24.94	27.17	28.16	32.69	32.95	32.64	26.08	24.74	24.13	23.79	23.73
Min.	23.65	23.78	24.56	25.56	26.26	32.32	26.17	24.78	24.15	23.86	23.71	23.68

WATER YEAR 1955 : Max. 32.95 m. Min. 23.56 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	47	54	125	258	307	1,410	1,518	270	129	78	54	49
2	46	54	119	281	294	1,414	1,497	261	126	78	54	49
3	46	55	113	327	294	1,414	1,483	253	124	76	54	49
4	45	56	117	414	326	1,423	1,459	247	122	75	54	49
5	46	56	135	529	385	1,449	1,407	241	121	73	53	49
6	46	57	168	536	405	1,469	1,366	242	120	72	52	49
7	47	58	221	510	442	1,479	1,337	226	119	70	52	49
8	47	58	261	488	468	1,493	1,292	225	117	69	51	50
9	48	57	299	442	480	1,529	1,242	218	115	68	51	50
10	49	56	341	393	564	1,584	1,139	213	114	66	51	50
11	50	56	376	362	670	1,595	1,082	207	112	65	51	50
12	51	58	414	333	962	1,588	1,048	203	110	64	51	49
13	51	59	421	319	1,159	1,595	1,013	196	109	64	51	49
14	52	61	376	307	1,249	1,607	932	190	107	61	50	49
15	51	62	320	278	1,234	1,614	900	183	106	61	50	49
16	51	65	292	258	1,215	1,618	855	176	104	61	50	49
17	51	70	287	242	1,198	1,618	788	173	102	60	49	49
18	50	75	281	227	1,196	1,622	728	169	101	59	49	49
19	49	85	261	216	1,225	1,633	689	165	98	58	49	49
20	49	98	254	210	1,300	1,630	628	161	98	58	49	49
21	49	105	249	221	1,374	1,622	576	156	95	58	49	49
22	48	112	246	264	1,493	1,610	520	152	94	58	49	49
23	49	116	237	397	1,526	1,630	472	148	91	57	49	48
24	49	115	229	576	1,533	1,588	451	146	92	57	49	48
25	50	110	222	540	1,536	1,566	427	144	90	56	49	47
26	51	113	219	507	1,504	1,497	395	143	89	56	49	47
27	51	119	224	472	1,462	1,472	367	142	87	56	49	47
28	51	128	225	424	1,450	1,469	343	139	86	56	49	47
29	52	141	230	376	1,430	1,483	325	136	83	55	49	47
30	53	147	241	339	1,407	1,526	302	132	82	55		47
31		136		320	1,407		282		80	55		47
Total	1,475	2,592	7,503	11,366	31,475	46,247	26,863	5,655	3,223	1,955	1,466	1,507
Mean	49.2	83.6	250	367	1,015	1,541	866	188	104	63.1	50.5	48.6
Max.	53	147	421	576	1,536	1,633	1,518	270	129	78	54	50
Min.	45	54	113	210	294	1,410	282	132	80	55	49	47
Runoff - mcm.	129.254	223.949	648.259	982.022	2,719.440	3,995.741	2,320.963	488.592	278.467	168.912	126.662	130.204

WATER YEAR 1955 : Max. 1,633 Min. 45 Mean 387 Annual Runoff 12,212.467 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 19	12.00	32.96	1,637				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAN RIVER BASIN

Nan River at Taphan Hin, Phichit (N.10)

Location: Lat 16°- 13' - 03" N, Long 100°- 25' - 26" E, on right bank one kilometer downstream from Wat Thao Praset, Tambon Huai Ket, Amphoe Taphan Hin, Phichit.

Drainage Area: 30,760 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +23.41 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.1

Location: Near the gage site.

Elevation: +33.173 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 - 69

Rating Operation:

Period of Rating: 1965 - 68

Rated by Float: -

Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

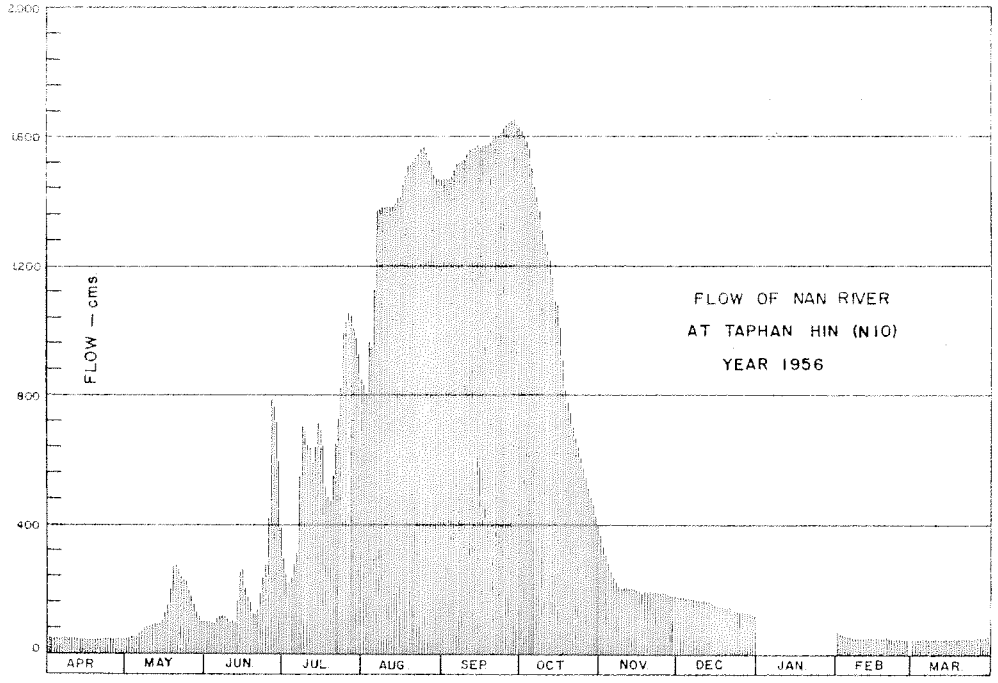
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965. No upstream state diversions for irrigation.

Remarks: Gage - height record for period Jan. 1 - 31 poor.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.68	23.69	24.40	26.21	29.62	32.50	32.89	26.78	25.26		23.95	23.67
2	.67	.72	.39	25.86	.51	.49	.86	.46	.25		.89	.67
3	.67	.74	.38	.63	.31	.49	.81	.31	.23		.83	.67
4	.67	.74	.33	.82	.21	.52	.75	.12	.21		.81	.66
5	.67	.81	.57	26.15	31.26	.57	.49	25.94	.20		.77	.66
6	23.66	23.92	24.59	26.38	32.19	32.63	32.39	25.81	25.19		23.77	23.66
7	.66	24.04	.62	27.91	.20	.64	.28	.66	.17		.76	.66
8	.66	.15	.57	28.94	.21	.65	.12	.54	.16		.75	.66
9	.65	.19	.43	.86	.28	.66	31.89	.51	.15		.74	.67
10	.65	.21	.39	.61	.23	.70	.77	.51	.14		.74	.67
11	23.65	24.26	24.38	28.53	32.23	32.75	31.66	25.50	25.13		23.73	23.66
12	.64	.28	.42	.26	.22	.76	.58	.49	.11		.73	.67
13	.64	.28	25.35	.66	.25	.77	.24	.49	.10		.74	.66
14	.64	.30	.92	29.00	.31	.78	30.95	.48	.03		.74	.67
15	.63	.47	.99	28.89	.35	.77	.68	.47	24.97		.73	.67
16	23.63	24.81	25.44	28.20	32.46	32.78	30.24	25.45	24.96		23.72	23.68
17	.63	25.01	.23	27.72	.56	.78	.05	.44	.94		.72	.68
18	.63	.46	.01	.54	.62	.78	29.48	.42	.91		.71	.69
19	.64	26.06	24.68	.50	.62	.81	.34	.40	.89		.71	.69
20	.64	.09	.65	.61	.65	.85	.11	.39	.87		.70	.69
21	23.64	25.98	24.94	28.61	32.69	32.85	28.87	25.39	24.84		23.70	23.69
22	.65	.78	25.61	29.07	.71	.87	.68	.38	.82		.69	.68
23	.65	.71	.87	.64	.75	.90	.47	.37	.80		.69	.68
24	.65	.71	26.32	30.55	.76	.93	.27	.36	.77		.69	.69
25	.66	.41	27.66	.76	.73	.95	.14	.34	.74		.68	.71
26	23.66	25.19	29.44	30.88	32.65	32.97	27.91	25.33	24.73		23.68	23.71
27	.66	.00	.29	.82	.58	.98	.67	.32	.71		.68	.72
28	.66	24.69	28.91	.61	.53	.99	.56	.29	.69		.67	.73
29	.67	.56	27.41	.44	.51	.96	.43	.28	.67			.74
30	.67	.44	26.53	.11	.50	.93	.14	.27	.64			.74
31		.41		29.81	.50		26.99		.62			.74
Mean	23.65	24.76	25.82	28.59	32.12	32.76	30.48	26.41	24.98		23.74	23.68
Max.	23.68	26.09	29.44	30.88	32.76	32.99	32.89	26.78	25.26		23.95	23.74
Min.	23.63	23.69	24.33	25.63	29.21	32.49	26.99	25.27	24.62		23.67	23.66

WATER YEAR 1956 : Max. 32.99 m. Min. 23.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	47	47	100	287	830	1,469	1,610	365	178		65	46
2	46	49	99	243	801	1,466	1,599	320	177		61	46
3	46	51	98	217	766	1,466	1,581	300	175		57	46
4	46	51	94	238	749	1,476	1,558	276	173		56	46
5	46	56	114	279	1,141	1,493	1,466	253	172		55	46
6	46	63	115	309	1,321	1,515	1,435	237	171		53	46
7	46	72	118	535	1,374	1,518	1,398	221	169		52	46
8	46	80	114	703	1,377	1,522	1,352	207	168		51	46
9	45	83	102	689	1,380	1,526	1,292	204	167		51	46
10	45	85	99	648	1,383	1,540	1,261	204	166		51	46
11	45	89	98	635	1,383	1,558	1,234	203	165		50	46
12	44	90	102	592	1,380	1,562	1,215	202	163		50	46
13	44	90	187	656	1,369	1,566	1,137	202	162		51	46
14	44	92	250	713	1,407	1,570	1,073	201	155		51	46
15	44	106	259	694	1,414	1,566	1,017	200	149		50	46
16	44	135	196	582	1,456	1,570	932	197	148		49	47
17	44	153	175	505	1,490	1,570	894	186	147		49	47
18	44	199	153	477	1,511	1,570	295	194	144		49	47
19	44	268	123	471	1,511	1,560	771	192	142		49	47
20	44	272	120	488	1,522	1,565	732	191	140		48	47
21	44	258	147	648	1,536	1,595	691	191	138		48	47
22	45	234	215	725	1,544	1,603	659	190	136		47	47
23	46	226	244	824	1,558	1,614	625	189	134		47	47
24	46	226	302	987	1,562	1,626	593	188	131		47	47
25	46	195	496	1,034	1,551	1,633	572	186	129		47	49
26	46	171	788	1,059	1,522	1,641	536	185	128		47	49
27	46	152	762	1,046	1,497	1,645	497	184	127		47	49
28	46	124	698	1,082	1,479	1,649	480	181	124		46	50
29	46	115	457	970	1,472	1,657	460	180	122			51
30	46	103	330	909	1,469	1,628	417	179	120			51
31		101		855	1,469		395		118			51
Total	1,395	4,032	7,155	20,021	42,294	46,967	30,275	6,418	4,658		1,422	1,463
Mean	45.2	130	238	646	1,364	1,565	977	214	150		50.7	47.2
Max.	47	272	788	1,059	1,562	1,649	1,610	365	178		65	51
Min.	44	47	94	217	749	1,466	395	179	118		46	46
Runoff - mcm.	117.072	348.369	618.192	1,729.814	3,654.202	4,057.949	2,615.761	554.515	406.723		122.861	126.403

WATER YEAR 1956 : Max. 1,649 Min. 44 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.28	06.00	32.99	1,649				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 infront of previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,197 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.00 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 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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

Overbank Flow Conditions: No overbank flow.

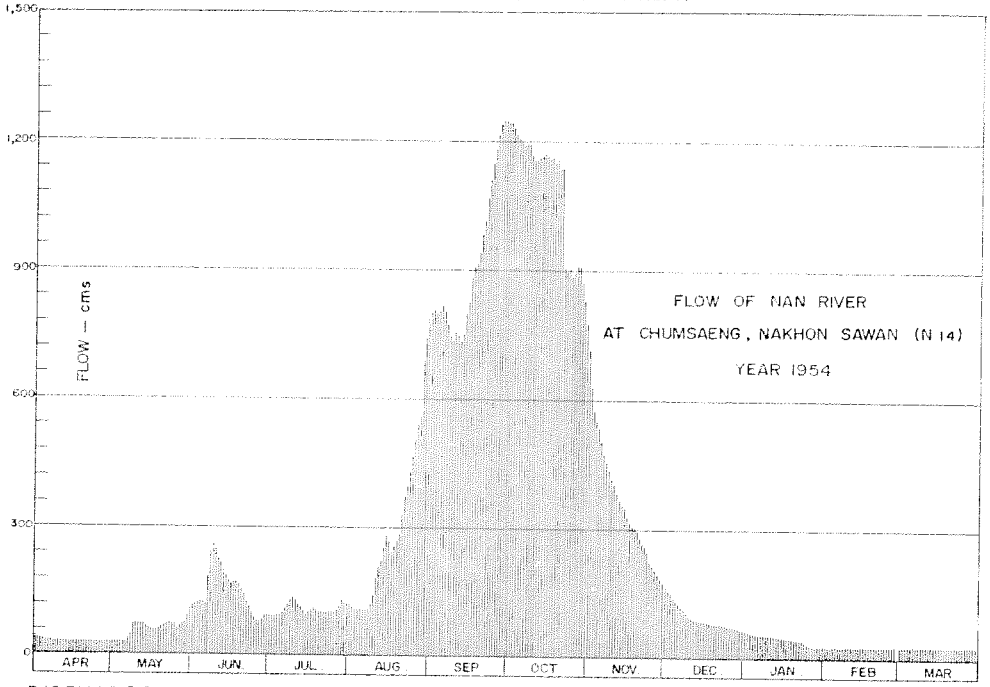
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1965. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.30	19.00	20.72	20.37	20.79	25.62	27.36	25.20	21.32	19.80	19.02	19.00
2	.26	.00	.76	.36	.68	.65	.34	24.75	.24	.77	.02	.00
3	.20	.00	.80	.33	.58	.61	.29	.45	.15	.73	.02	.00
4	.18	.00	.81	.40	.60	.65	.25	.32	.05	.70	.02	.00
5	.12	.00	.81	.42	.60	.69	.22	.22	20.96	.67	.02	.00
6	19.07	19.00	20.75	20.46	20.58	25.64	27.20	24.05	20.83	19.66	19.02	9.00
7	.04	.17	21.58	.61	.58	.50	.21	23.85	.75	.64	.01	.00
8	.01	.55	22.11	.74	.62	.35	.20	.73	.66	.63	.01	.00
9	.00	.99	.28	.90	.77	.31	.11	.61	.55	.63	.00	.00
10	.00	20.05	.18	.98	21.11	.40	.07	.45	.44	.62	.00	.00
11	19.00	20.03	21.97	20.89	21.55	25.36	27.08	23.37	20.36	19.60	19.00	19.00
12	.00	.02	.87	.75	.80	.31	.10	.23	.29	.58	.00	.00
13	.00	19.96	.70	.67	.94	.38	.11	.13	.27	.58	.00	.00
14	.00	.85	.59	.56	22.22	.60	.12	.05	.24	.56	.00	.00
15	.00	.80	.42	.45	.46	.73	.19	22.98	.23	.54	.00	.00
16	19.00	19.73	21.38	20.84	22.37	25.99	27.08	22.83	20.20	19.50	19.00	19.00
17	.00	.72	.41	.57	.12	26.09	.09	.74	.19	.47	.00	.00
18	.00	.76	.41	.65	.25	.13	.05	.67	.16	.45	.00	.00
19	.00	.78	.34	.57	.36	.24	.08	.62	.14	.43	.00	.00
20	.00	.84	.19	.80	.49	.43	.00	.56	.14	.42	.00	.00
21	19.00	19.94	21.07	20.54	22.85	26.55	27.00	22.44	20.11	19.38	19.00	19.00
22	.00	.99	20.85	.49	23.15	.76	26.08	.33	.10	.35	.00	.00
23	.00	20.05	.67	.49	.34	.91	.05	.28	.09	.33	.00	.00
24	.00	.01	.47	.54	.54	27.05	.08	.14	.07	.27	.00	.00
25	.00	.01	.25	.53	.81	.17	.01	21.93	.05	.12	.00	.00
26	19.00	19.81	20.17	20.55	24.65	27.29	26.04	21.85	20.03	19.07	19.00	19.00
27	.00	.93	.16	.62	.26	.38	.11	.76	.00	.63	.00	.00
28	.00	.99	.27	.72	.53	.40	.10	.65	19.98	.02	.00	.00
29	.00	20.09	.40	.91	25.08	.40	25.94	.53	.95	.02		.00
30	.00	.32	.41	.81	.36	.39	.75	.43	.89	.02		.00
31		.62		.78	.55		.50		.84	.02		.00
Mean	19.04	19.74	21.09	20.60	22.39	26.16	26.76	23.06	20.36	19.44	19.00	19.00
Max.	19.30	20.62	22.28	20.98	25.55	27.40	27.38	25.20	21.32	19.80	19.02	19.00
Min.	19.00	19.00	20.16	20.33	20.58	25.31	25.50	21.43	19.84	19.02	19.00	19.00

WATER YEAR 1954 : Max. 27.40 m. Min. 19.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43	31	119	96	124	802	1,242	716	166	65	32	31
2	41	31	122	95	117	809	1,231	629	159	63	32	31
3	39	31	125	94	110	900	1,217	575	152	61	32	31
4	38	31	126	98	111	865	1,206	552	144	60	32	31
5	36	31	126	99	111	818	1,198	535	137	58	32	31
6	34	31	121	102	110	807	1,192	508	127	58	32	31
7	33	33	119	112	110	776	1,195	476	121	57	31	31
8	31	53	243	121	112	746	1,192	457	115	56	31	31
9	31	74	262	132	123	728	1,187	438	107	56	31	31
10	31	77	254	138	149	766	1,186	416	100	56	31	31
11	31	76	228	131	186	748	1,158	404	96	55	31	31
12	31	76	218	121	211	758	1,164	384	91	54	31	31
13	31	75	201	116	225	752	1,167	370	90	54	31	31
14	31	67	150	108	255	798	1,170	359	88	53	31	31
15	31	65	175	101	283	827	1,164	349	88	53	31	31
16	31	61	171	107	272	884	1,158	328	86	51	31	31
17	31	61	124	109	244	907	1,161	317	85	50	31	31
18	31	63	174	114	258	916	1,150	306	84	49	31	31
19	31	64	168	109	271	942	1,158	302	82	48	31	31
20	31	67	155	104	287	987	1,156	295	82	48	31	31
21	31	72	146	107	351	1,016	1,156	281	81	46	31	31
22	31	74	128	103	395	1,020	904	268	80	45	31	31
23	31	77	116	103	408	1,111	897	262	79	44	31	31
24	31	75	102	102	429	1,150	904	246	78	42	31	31
25	31	75	89	105	470	1,184	888	224	77	36	31	31
26	31	65	84	107	508	1,213	895	216	76	34	31	31
27	31	71	84	113	542	1,242	911	207	75	32	31	31
28	31	74	90	119	589	1,248	909	196	74	32	31	31
29	31	79	98	135	692	1,246	872	185	71	32		31
30	31	93	99	126	768	1,235	851	176	69	32		31
31		112		124	787		776		67	32		31
Total	977	1,968	4,574	3,453	9,538	28,087	33,505	10,979	3,027	1,512	874	961
Mean	32.6	65.5	152	111	308	936	1,081	366	97.6	48.8	31.2	31.0
Max.	43	112	262	138	787	1,248	1,242	716	166	65	32	31
Min.	31	31	84	94	110	738	776	176	67	32	31	31
Runoff - mcm.	84.413	170.035	395.194	298.339	824.085	2,426.717	2,894.832	948.586	261.533	130.637	75.514	83.050

WATER YEAR 1954 : Max. 1,248 Min. 31 Mean 272 Annual Runoff 8,592.912 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.28	15.00	27.41	1,251				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 infront of previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,197 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +19.00 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 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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 except those for period of no records which are poor. Stage - discharge relation used is defined by discharge measurements made during 1965. No state diversions above gage site.

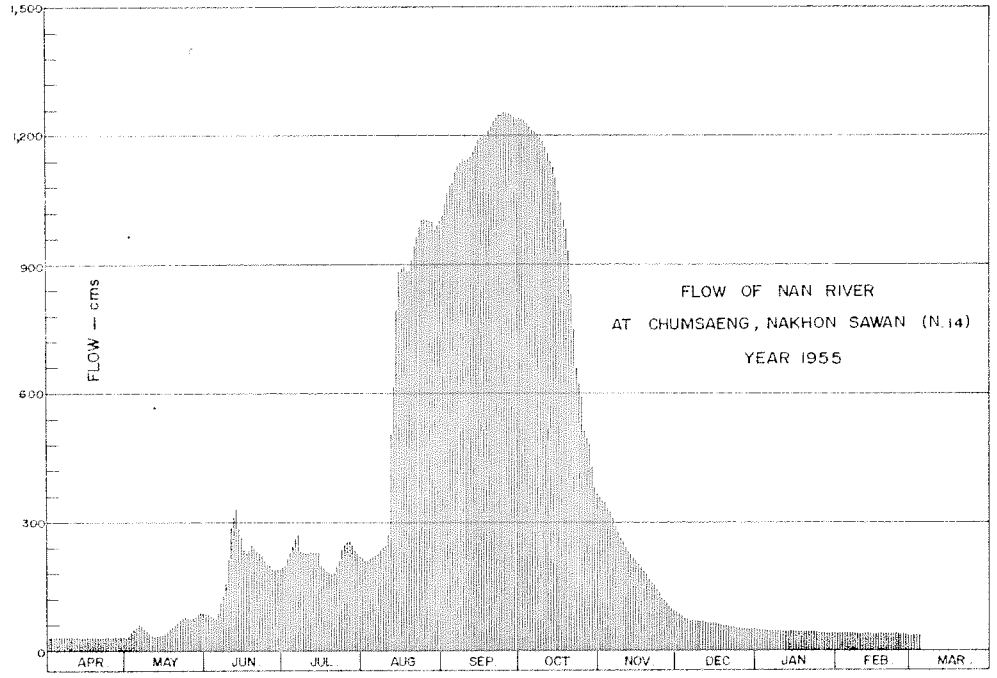
Remarks: No gage - height record for period Mar. 5 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.00	19.01	20.18	21.66	21.88	26.54	27.38	23.04	20.26	19.42	19.21	16.06
2	.00	.09	.17	.71	.82	.63	.36	.00	.20	.41	.21	.05
3	.00	.39	.09	.90	.81	.75	.35	22.95	.10	.40	.20	.04
4	.00	.44	.07	22.93	.87	.82	.33	.86	.03	.39	.20	.02
5	.00	.63	.05	.12	.90	.84	.50	.79	19.97	.38	.20	
6	19.00	19.74	20.26	22.32	21.93	26.93	27.27	22.68	19.95	19.36	19.20	
7	.00	.69	.65	.39	.99	.98	.26	.51	.93	.36	.20	
8	.00	.55	.88	.02	22.06	27.01	.24	.38	.91	.35	.18	
9	.00	.34	21.26	.00	.10	.03	.21	.28	.89	.35	.18	
10	.00	.19	.90	21.98	.13	.82	.19	.19	.87	.35	.17	
11	19.00	19.10	22.51	21.99	22.38	27.04	27.14	22.05	19.85	19.34	19.16	
12	.00	.08	.71	22.02	23.77	.87	.09	.00	.79	.34	.19	
13	.00	.08	.65	.00	24.69	.10	.03	21.94	.77	.34	.20	
14	.00	.11	.46	.00	25.58	.15	26.92	.85	.77	.34	.19	
15	.00	.15	.32	21.98	.98	.19	.87	.79	.76	.33	.18	
16	19.00	19.22	22.04	21.78	26.03	27.21	26.76	21.69	19.75	19.33	19.17	
17	.00	.41	.00	.63	.04	.22	.66	.63	.75	.32	.17	
18	.00	.51	.06	.55	.00	.22	.50	.57	.70	.32	.17	
19	.00	.65	.17	.51	.01	.27	.42	.45	.68	.31	.17	
20	.00	.72	.09	.48	.10	.31	.20	.32	.65	.31	.19	
21	19.00	19.87	22.02	21.51	26.25	27.35	25.76	21.23	19.63	19.30	19.22	
22	.00	.94	21.99	.67	.34	.58	.36	.16	.59	.30	.21	
23	.00	20.04	.93	.29	.44	.40	24.92	.05	.58	.30	.21	
24	.00	.09	.80	22.07	.50	.40	.70	20.93	.55	.28	.19	
25	.00	.04	.75	.17	.51	.42	.55	.78	.52	.27	.18	
26	19.00	20.01	21.68	22.24	26.50	27.41	24.08	20.67	19.50	19.25	19.15	
27	.00	.04	.80	.24	.49	.41	23.98	.58	.48	.24	.15	
28	.00	.11	.57	.16	.48	.40	.88	.50	.46	.23	.10	
29	.04	.20	.60	.05	.40	.38	.55	.37	.45	.22	.07	
30	.03	.27	.61	21.98	.44	.36	.20	.31	.44	.22		
31		.20		.94	.50		.09		.44	.21		
Mean	19.00	19.61	21.52	21.97	24.61	27.14	26.11	21.72	19.75	19.32	19.18	
Max.	19.04	20.27	22.85	22.39	26.51	27.42	27.38	23.04	20.26	19.42	19.22	
Min.	19.00	19.01	20.05	21.48	21.81	26.54	23.09	20.31	19.44	19.21	19.07	

WATER YEAR 1955 : Max. 27.42 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31	51	85	197	219	1,014	1,242	358	90	48	39	33
2	31	35	84	202	213	1,036	1,237	352	86	47	39	33
3	31	43	79	221	212	1,067	1,234	345	80	47	39	33
4	31	49	78	234	210	1,086	1,228	332	76	47	39	32
5	31	56	77	244	221	1,091	1,220	323	73	46	39	
6	31	62	90	266	224	1,116	1,212	310	72	45	39	
7	31	59	114	275	230	1,130	1,209	289	71	45	39	
8	31	53	151	233	238	1,139	1,203	274	70	45	38	
9	31	45	161	231	242	1,144	1,195	262	69	45	38	
10	31	40	221	229	245	1,142	1,189	252	68	45	38	
11	31	35	289	230	274	1,147	1,175	236	67	45	37	
12	31	34	313	233	463	1,156	1,161	231	64	45	39	
13	31	34	331	231	618	1,164	1,144	225	63	45	39	
14	31	35	285	251	794	1,178	1,128	216	63	46	39	
15	31	37	266	229	882	1,189	1,100	210	63	44	38	
16	31	40	235	209	895	1,195	1,070	200	62	44	38	
17	31	47	231	194	895	1,198	1,044	194	61	44	38	
18	31	51	238	186	886	1,198	1,004	188	60	44	38	
19	31	57	250	183	888	1,212	985	177	59	43	38	
20	31	61	241	180	909	1,223	932	166	57	43	39	
21	31	68	253	183	944	1,234	833	158	56	43	40	
22	31	72	230	198	966	1,242	748	153	55	43	39	
23	31	77	224	210	990	1,248	660	144	54	43	39	
24	31	79	211	259	1,004	1,248	620	134	53	42	39	
25	31	77	204	250	1,006	1,254	595	124	52	42	38	
26	31	75	199	257	1,004	1,251	515	116	51	41	37	
27	31	77	191	257	1,002	1,251	497	110	50	41	37	
28	31	81	188	249	999	1,248	481	104	49	40	35	
29	33	86	191	236	980	1,242	426	96	49	40	34	
30	32	90	192	229	990	1,237	380	93	49	40		
31		86		225	1,004		365		49	39		
Total	933	1,772	5,860	6,971	20,653	35,280	29,026	6,372	1,941	1,356	1,108	
Mean	31.1	57.2	195	225	666	1,176	936	212	62.6	43.7	38.2	
Max.	33	90	331	275	1,006	1,254	1,242	358	90	48	40	
Min.	31	31	77	180	212	1,014	365	93	49	39	34	
Runoff - mcm.	80.611	153.101	506.304	602.294	1,784.419	3,048.192	2,508.019	550.541	167.702	117.158	95.731	

WATER YEAR 1955 : Max. 1,254 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	12.00	27.43	1,257				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 infront of previous site of Amphoe Chumsaeng Office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,197 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 19.00 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 - 68
Rated by Float: -
Rated by Current Meter: 1965 - 68

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 except those for period of no records which are poor. Stage - discharge relation used is defined by discharge measurements made during 1965. No state diversion for irrigation above gage site.

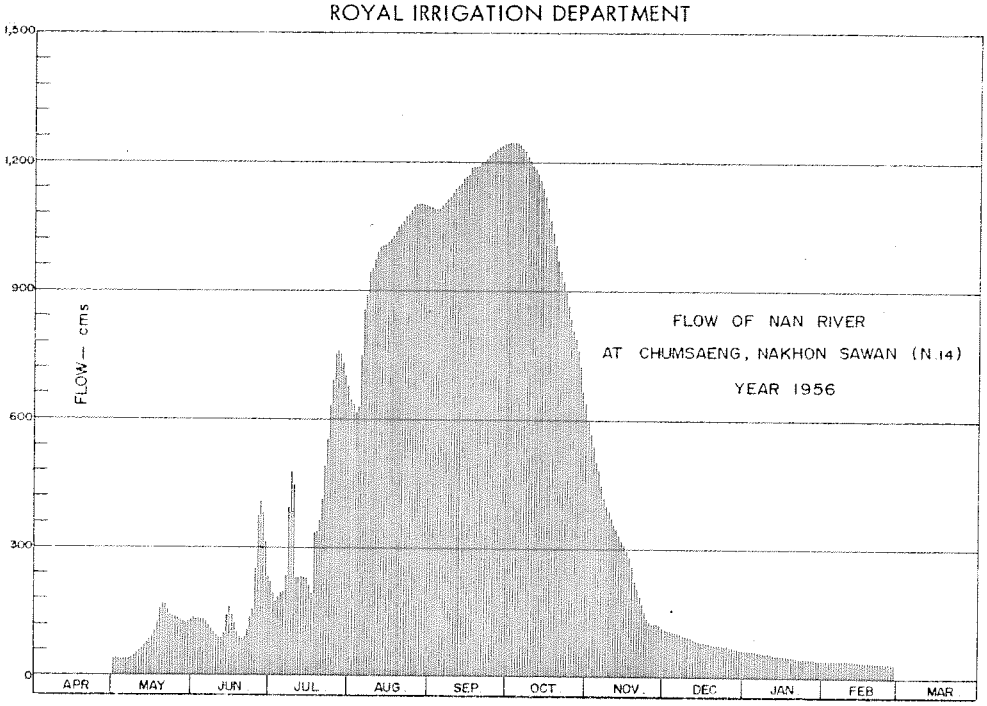
Remarks: No gage - height record for periods Apr. 1 - 30 and Mar. 4 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		19.19	20.98	21.91	24.84	26.85	27.39	24.59	20.64	19.79	19.26	19.03
2		.29	.93	.60	.76	.84	.39	.41	.61	.77	.26	.02
3		.24	.92	.42	.67	.84	.39	.21	.57	.76	.26	.01
4		.23	.92	.54	.76	.85	.38	.04	.53	.74	.27	
5		.23	.93	.66	25.38	.88	.36	23.88	.51	.73	.26	
6		19.24	20.88	21.67	25.86	26.90	27.35	27.67	20.50	19.71	19.25	
7		.28	.72	22.04	26.04	.93	.32	.48	.43	.67	.25	
8		.35	.58	23.29	.24	.95	.29	.35	.40	.64	.24	
9		.48	.47	.86	.30	.98	.25	.25	.38	.62	.24	
10		.59	.36	.68	.37	27.01	.19	.14	.37	.62	.23	
11		19.73	20.27	21.99	26.44	27.03	27.17	23.03	20.32	19.59	19.21	
12		.85	.27	22.02	.49	.05	.13	22.94	.24	.56	.20	
13		.98	.47	.00	.50	.10	.08	.84	.18	.53	.19	
14		20.12	21.08	.00	.52	.11	.01	.73	.13	.52	.18	
15		.25	.30	21.98	.54	.12	26.94	.66	.13	.50	.17	
16		20.37	21.05	21.81	26.57	27.18	26.85	22.57	20.13	19.49	19.16	
17		.56	20.78	.63	.80	.18	.74	.41	.12	.47	.15	
18		.84	.49	22.89	.64	.18	.62	.20	.10	.46	.14	
19		21.25	.28	.90	.68	.18	.51	21.91	.06	.44	.14	
20		.36	.20	23.14	.71	.22	.36	.74	.04	.42	.13	
21		21.32	20.28	23.44	26.75	27.23	26.25	21.57	20.03	19.39	19.12	
22		.15	.58	24.01	.78	.25	.13	.36	.00	.37	.11	
23		.01	.98	.39	.81	.29	.05	.14	19.99	.34	.11	
24		.00	21.23	.81	.85	.31	25.90	20.96	.98	.33	.11	
25		.00	22.22	25.09	.86	.32	.76	.86	.96	.31	.09	
26		20.96	23.17	25.39	26.88	27.34	25.64	20.79	19.92	19.30	19.07	
27		.89	.40	.42	.88	.36	.55	.80	.88	.30	.05	
28		.84	.20	.38	.88	.36	.42	.81	.86	.29	.04	
29		.79	22.74	.28	.87	.37	.24	.76	.84	.28		
30		.88	.00	.14	.87	.39	24.98	.65	.83	.28		
31		.96		24.98	.86		.80		.81	.27		
Mean		20.26	21.22	23.11	26.33	27.12	26.56	22.49	20.18	19.50	19.17	
Max.		21.36	23.74	25.42	26.88	27.39	27.39	24.59	20.64	19.64	19.27	
Min.		19.19	20.20	21.42	24.67	26.84	24.80	20.65	19.81	19.27	19.04	

WATER YEAR 1956 : Max. 27.39 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		39	138	222	645	1,094	1,245	600	114	64	41	32
2		43	134	191	631	1,091	1,245	568	112	63	41	32
3		41	134	175	615	1,091	1,245	534	109	63	41	31
4		40	134	186	631	1,094	1,242	506	105	62	42	
5		40	134	197	752	1,102	1,237	481	105	61	41	
6		41	131	198	855	1,108	1,228	447	104	60	41	
7		42	119	235	895	1,116	1,226	419	100	58	41	
8		45	110	393	942	1,122	1,217	401	98	57	41	
9		50	102	478	956	1,130	1,206	387	97	56	41	
10		55	96	449	973	1,139	1,189	372	96	56	40	
11		61	90	230	990	1,144	1,184	356	93	55	39	
12		67	90	233	1,002	1,150	1,172	344	88	53	39	
13		74	102	231	1,004	1,164	1,158	330	85	52	39	
14		81	146	231	1,009	1,167	1,139	316	82	52	38	
15		89	164	229	1,014	1,170	1,119	307	82	51	38	
16		96	144	212	1,021	1,186	1,094	296	82	51	37	
17		103	124	194	1,028	1,186	1,064	277	81	50	37	
18		128	105	337	1,038	1,186	1,033	253	80	49	37	
19		160	91	338	1,049	1,186	1,006	222	78	49	37	
20		169	86	372	1,057	1,198	970	205	77	48	36	
21		166	91	414	1,067	1,200	944	188	76	47	36	
22		152	110	502	1,075	1,206	916	169	75	46	35	
23		141	138	564	1,083	1,217	897	151	74	45	35	
24		140	158	640	1,088	1,223	864	137	74	44	35	
25		140	255	694	1,097	1,226	833	129	73	43	35	
26		137	376	754	1,102	1,231	807	124	71	43	34	
27		131	408	760	1,102	1,236	787	125	69	43	33	
28		128	389	752	1,102	1,236	760	126	68	43	33	
29		124	317	732	1,100	1,240	724	122	67	42		
30		131	251	704	1,100	1,245	672	114	66	42		
31		137		672	1,097		658		65	42		
Total		2,996	4,836	12,519	30,120	35,064	32,061	9,006	2,646	1,590	1,063	
Mean		96.6	161	404	972	1,169	1,034	300	85.3	51.3	38.0	
Max.		169	458	760	1,102	1,245	1,245	600	114	64	42	
Min.		39	86	175	615	1,091	658	114	65	42	33	
Runoff - mcm.		255.854	417.850	1,081.642	2,602.368	3,031.258	2,770.070	778.118	228.614	137.376	91.843	

WATER YEAR 1956 : Max. 1,245 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 30	12.00	27.39	1,245				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Tha Nat, Chai Nat (C.1)

Location: Lat 15° - 16' - 17" N, Long 100° - 03' - 44" E, on left bank about 300 meters upstream from wat Tha Nat, Amphoe Manorom, Chai Nat.

Drainage Area: 118,816 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +8.00 m. (M.S.L.)

Bench Mark: B.M. C.1

Location: On left bank about 5 meters upstream from gage site.
Elevation: +19.125 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: 1905 - 59

Rating Operation:

Period of Rating: 1905 - 13, 1947 - 55
Rated by Float: 1905 - 13
Rated by Current Meter: 1947 - 55

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions:

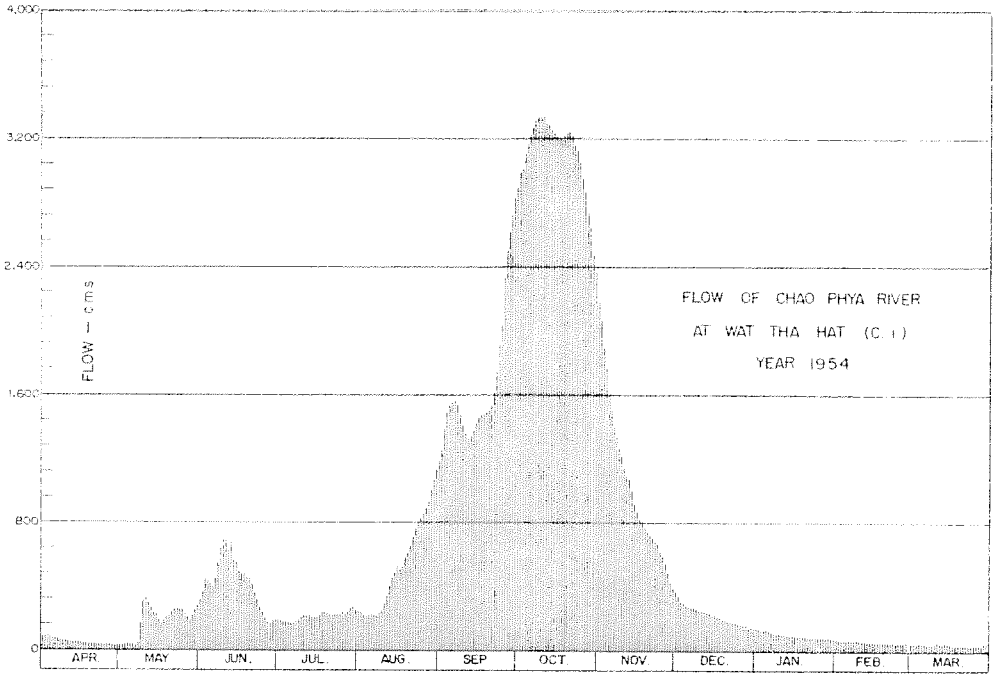
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1954. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.43	8.85	10.85	10.20	10.50	13.70	17.40	16.06	11.01	9.88	9.30	8.98
2	.42	.85	11.08	.17	.49	.85	.56	15.74	10.90	.65	.29	.96
3	.40	.87	.40	.14	.41	14.20	.59	.41	.81	.83	.28	.95
4	.36	.87	.40	.12	.35	.45	.72	.06	.74	.81	.27	.95
5	.30	.85	.27	.11	.37	.55	.82	14.75	.68	.78	.26	.95
6	9.26	8.85	11.22	10.11	10.40	14.59	17.89	14.48	10.64	9.76	9.25	8.94
7	.22	.91	.37	.13	.39	.60	.95	.26	.62	.72	.24	.94
8	.18	9.01	.76	.17	.39	.55	18.00	.06	.59	.69	.23	.93
9	.15	10.09	12.10	.23	.44	.60	.05	13.89	.56	.68	.21	.93
10	.11	.85	.25	.32	.53	.21	.03	.75	.52	.63	.19	.92
11	9.08	10.86	12.25	10.34	10.70	14.12	18.02	13.58	10.49	9.61	9.17	9.04
12	.05	.78	.12	.36	.97	.06	17.98	.43	.48	.58	.16	.02
13	.04	.62	11.96	.34	11.25	.09	.96	.40	.46	.55	.15	.00
14	.02	.45	.86	.31	.45	.18	.92	.16	.43	.53	.14	8.97
15	8.99	.32	.72	.28	.60	.28	.89	12.97	.39	.51	.11	.95
16	8.97	10.21	11.56	10.30	11.68	14.37	17.87	12.81	10.35	9.50	9.09	8.95
17	.95	.11	.50	.37	.64	.40	.86	.70	.30	.49	.08	.90
18	.94	.17	.53	.48	.72	.42	.86	.61	.26	.48	.06	.81
19	.92	.27	.48	.48	.94	.45	.87	.53	.22	.46	.05	.85
20	.91	.35	.41	.43	12.03	.47	.89	.43	.19	.44	.05	.87
21	8.93	10.49	11.26	10.40	12.16	14.57	17.90	12.34	10.16	9.43	9.04	8.89
22	.91	.56	.07	.35	.34	.74	.87	.29	.14	.42	.03	.80
23	.88	.54	10.85	.36	.53	15.00	.81	.21	.11	.40	.03	.71
24	.87	.51	.63	.40	.65	.45	.74	.15	.08	.38	.02	.72
25	.85	.51	.43	.41	.71	.91	.64	.00	.05	.37	.01	.72
26	8.84	10.40	11.30	10.45	12.81	16.31	17.50	11.92	10.01	9.36	9.00	8.73
27	.84	.29	.10	.41	.90	.65	.39	.74	9.99	.35	8.99	.74
28	.83	.22	.14	.49	13.02	.89	.15	.52	.98	.34	.98	.75
29	.85	.35	.17	.59	.19	17.09	16.94	.33	.95	.33		.97
30	.85	.53	.21	.59	.37	.27	.67	.15	.93	.32		.93
31		.69		.54	.57		.37		.91	.31		.91
Mean	9.04	10.04	11.41	10.33	11.63	14.86	17.68	13.19	10.35	9.54	9.13	8.89
Max.	9.43	10.86	12.25	10.59	13.57	17.27	18.03	16.06	11.01	9.88	9.30	9.04
Min.	8.83	8.85	10.43	10.11	10.35	13.70	16.37	11.15	9.91	9.31	8.98	8.71

WATER YEAR 1954 : Max. 18.03 m. Min. 8.71 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	91	42	323	209	256	1,199	2,906	2,216	365	148	78	51
2	90	42	380	195	254	1,257	3,003	2,068	338	144	77	49
3	88	43	458	190	238	1,396	3,022	1,917	319	141	77	49
4	84	43	458	186	227	1,499	3,111	1,761	304	138	75	49
5	78	42	426	185	231	1,541	3,185	1,627	292	134	74	49
6	74	42	414	185	236	1,559	3,234	1,512	284	131	73	48
7	70	46	450	188	235	1,563	3,278	1,420	280	126	72	48
8	67	53	551	195	255	1,541	3,315	1,340	274	122	71	47
9	64	181	618	205	244	1,478	3,339	1,273	268	118	69	47
10	61	327	693	222	262	1,480	3,339	1,218	260	114	68	47
11	59	330	693	225	296	1,364	3,331	1,154	254	112	66	55
12	56	312	654	229	354	1,340	3,300	1,098	252	108	65	54
13	55	280	607	235	421	1,352	3,285	1,087	248	104	64	52
14	54	246	579	220	470	1,388	3,256	1,000	242	102	63	51
15	52	222	540	214	500	1,428	3,234	932	235	100	61	49
16	50	202	499	218	530	1,465	3,219	876	227	98	59	47
17	49	185	483	231	519	1,478	3,212	859	218	97	59	45
18	48	195	491	252	540	1,486	3,212	808	211	96	57	39
19	47	213	478	252	601	1,499	3,219	782	204	94	56	42
20	46	227	460	242	627	1,507	3,234	750	198	92	56	43
21	47	254	423	236	666	1,550	3,241	721	195	91	55	44
22	46	268	376	227	721	1,623	3,219	706	190	90	55	38
23	44	264	327	229	782	1,735	3,175	681	185	88	55	32
24	43	258	282	236	822	1,955	3,125	663	180	86	54	33
25	42	258	242	238	842	2,147	3,056	618	175	85	53	33
26	41	236	218	242	876	2,336	2,965	596	169	84	52	34
27	41	216	183	238	908	2,565	2,880	546	165	85	52	34
28	40	204	190	254	950	2,620	2,765	488	164	82	51	35
29	42	227	195	274	1,010	2,731	2,651	446	157	81		50
30	42	262	202	274	1,076	2,831	2,515	397	156	80		47
31		294		264	1,150		2,365		153	79		46
Total	1,711	6,014	12,925	6,971	17,088	58,760	96,259	31,534	7,158	3,248	1,767	1,386
Mean	57.0	194	431	225	551	1,692	3,105	1,051	231	105	63.1	44.7
Max.	91	330	693	274	1,150	2,831	3,339	2,216	365	148	78	55
Min.	40	42	183	185	227	1,199	2,365	397	153	79	51	32
Runoff - mcm.	147.830	519.610	1,116.720	602.294	1,476.403	4,385.664	8,312.458	2,724.538	618.451	280.627	152.669	119.750

WATER YEAR 1954 : Max. 3,339 Min. 32 Mean 649 Annual Runoff 20,457.014 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	06.00	18.03	3,339				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Tha Hat, Chai Nat (C.1)

Location: Lat 15°- 16' - 17" N. Long 100°- 05' - 44" E, on left bank about 500 meters upstream from Wat Tha Hat, Amphoe Manorom, Chai Nat.

Drainage Area: 118,816 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +8.00 m. (M.S.L.)

Bench Mark: B.M. C.1

Location: On left bank about 5 meters upstream from gage site.
Elevation: +19.125 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: 1905 - 1959

Rating Operation:

Period of Rating: 1905 - 13, 1947 - 55
Rated by Float: 1905 - 13
Rated by Current Meter: 1947 - 55

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elevation +17.86 m. (M.S.L.) but not included for flow computation.

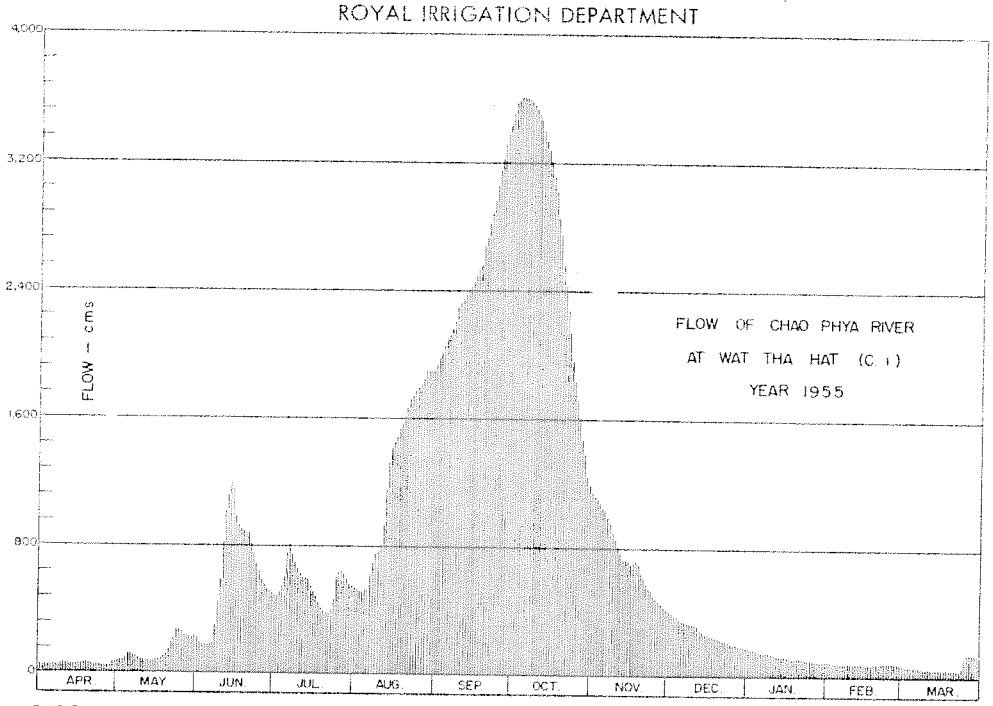
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.89	9.14	10.08	11.29	11.51	15.42	18.17	13.48	10.92	9.81	9.28	9.09
2	.89	.19	9.95	.29	.47	.52	.20	.42	.87	.77	.25	.05
3	.88	.19	.85	.38	.41	.59	.21	.36	.81	.74	.24	.02
4	.87	.26	.80	.53	.41	.67	.21	.29	.75	.72	.21	.00
5	.87	.42	.86	.71	.47	.73	.20	.19	.70	.69	.21	8.99
6	8.86	9.47	9.87	12.32	11.44	15.82	18.18	13.10	10.67	9.67	9.21	8.97
7	.86	.42	.93	.46	.74	.89	.17	.02	.64	.67	.21	.97
8	.90	.36	10.51	.25	12.06	16.00	.14	12.92	.60	.66	.20	.96
9	.95	.30	11.10	.04	.26	.16	.11	.76	.58	.64	.20	.94
10	.98	.23	.70	11.91	.31	.20	.08	.56	.55	.62	.18	.93
11	8.96	9.17	12.47	11.78	12.44	16.26	18.03	12.46	10.54	9.59	9.17	8.91
12	.96	.14	13.20	.73	.89	.31	17.94	.31	.48	.57	.19	.89
13	.95	.14	.43	.71	13.50	.36	.89	.17	.38	.54	.19	.87
14	.95	.12	.33	.65	.97	.40	.77	.14	.32	.52	.17	.85
15	.91	.15	.20	.53	14.16	.46	.66	.12	.29	.50	.17	.84
16	8.93	9.19	13.04	11.38	14.32	15.55	17.55	12.06	10.26	9.49	9.17	8.83
17	.97	.20	12.86	.23	.40	.61	.39	.12	.22	.48	.16	.83
18	9.00	.29	.75	.11	.50	.66	.20	.15	.19	.47	.16	.83
19	.00	.38	.70	10.96	.58	.86	16.96	.03	.16	.45	.17	.83
20	8.97	.47	.72	.87	.68	.97	.70	11.87	.14	.44	.19	.85
21	8.93	9.68	12.67	10.86	14.80	17.08	16.41	11.73	10.12	9.42	9.20	8.85
22	.88	.92	.47	.85	.95	.20	.11	.59	.09	.39	.21	.83
23	.89	10.09	.26	.93	.99	.52	15.82	.51	.08	.37	.24	.83
24	.85	.31	.06	11.28	15.05	.47	.51	.43	.05	.36	.24	.08
25	.86	.33	11.86	.70	.10	.60	.19	.33	.02	.35	.23	.54
26	8.84	10.28	11.69	11.83	15.16	17.71	14.91	11.25	9.96	9.35	9.22	9.61
27	.84	.19	.55	.87	.21	.82	.62	.18	.93	.34	.20	.59
28	.96	.14	.47	.76	.33	.93	.32	.11	.91	.33	.17	.60
29	9.02	.12	.41	.67	.34	16.01	.12	.04	.89	.32	.13	.59
30	.06	.12	.35	.59	.34	.10	13.87	10.99	.87	.30		.59
31		.16		.54	.54		.61		.83	.29		.08
Mean	8.92	9.57	11.70	11.55	13.67	16.49	17.81	12.19	10.32	9.51	9.20	9.10
Max.	9.06	10.33	13.43	12.46	15.34	18.10	18.20	13.48	10.92	9.81	9.28	9.61
Min.	8.84	9.12	9.80	10.85	11.41	15.42	13.61	10.99	9.83	9.29	9.13	8.83

WATER YEAR 1955 : Max. 18.20 m. Min. 8.83 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56	85	229	496	553	1,039	3,572	1,154	409	182	100	77
2	56	89	205	496	542	1,987	3,595	1,130	397	175	96	72
3	55	89	188	519	527	2,020	3,603	1,109	383	170	95	69
4	54	98	180	558	527	2,059	3,605	1,085	369	166	91	67
5	54	120	190	605	542	2,087	3,595	1,051	358	161	91	66
6	55	127	192	774	564	2,131	3,580	1,020	351	158	91	64
7	55	120	292	845	613	2,165	3,572	995	345	158	91	64
8	57	111	547	794	731	2,220	3,549	960	336	157	90	63
9	62	103	650	695	757	2,301	3,526	908	332	153	90	61
10	65	94	602	650	771	2,322	3,503	852	325	150	88	60
11	63	86	878	624	809	2,354	3,464	815	323	145	86	58
12	63	83	1,054	613	950	2,380	3,398	771	311	142	89	56
13	62	83	1,162	604	1,158	2,407	3,342	732	290	138	89	54
14	62	80	1,098	580	1,331	2,428	3,279	725	277	135	86	52
15	58	84	1,054	595	1,404	2,460	3,202	718	271	132	86	51
16	60	89	1,000	519	1,468	2,510	3,112	701	265	130	86	50
17	64	90	940	481	1,500	2,544	3,018	718	257	129	85	50
18	67	102	900	462	1,540	2,572	2,894	720	251	127	85	50
19	67	114	880	448	1,574	2,688	2,746	692	245	124	86	50
20	64	122	885	397	1,616	2,752	2,595	648	241	123	89	52
21	60	160	880	395	1,666	2,819	2,435	610	237	120	90	52
22	55	200	818	592	1,750	2,894	2,275	575	231	116	91	50
23	56	251	757	411	1,918	2,972	2,131	553	229	113	95	50
24	52	275	731	494	1,775	3,071	1,982	532	223	111	95	76
25	53	270	645	502	1,795	3,160	1,855	506	218	110	94	138
26	51	269	594	657	1,821	3,227	1,715	486	207	110	93	149
27	51	251	562	648	1,843	3,314	1,590	469	202	109	90	145
28	65	241	542	616	1,838	3,391	1,468	452	199	107	86	147
29	69	239	527	594	1,902	3,449	1,389	436	195	106	82	145
30	74	237	511	573	1,902	3,518	1,293	425	192	103		145
31		235		560	1,902		1,198		185	102		76
Total	1,779	4,599	19,091	17,544	39,397	78,151	86,055	22,939	8,654	4,162	2,606	2,359
Mean	59.3	148	636	566	1,271	2,605	2,776	751	279	134	89.9	76.1
Max.	74	279	1,140	815	1,902	3,518	3,603	1,154	409	182	100	149
Min.	51	80	180	392	527	1,939	1,198	425	185	102	82	50
Runoff - m.c.m.	155.706	397.354	1,649.462	1,515.802	3,403.901	6,752.246	7,435.152	1,946.870	747.706	359.597	225.158	203.818

WATER YEAR 1955 : Max. 3,603 Min. 50 Mean 784 Annual Runoff 24,791.270 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	06.00	18.21	3,603				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 Bechat Luang Bridge, Amphoe Muang, Nakhon Sawan.

Drainage Area: 110,569 sq.km.

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 + 26.358 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, shifting adjustment and periodic curve are included for flow computation.

Overbank Flow Conditions: No overbank flow.

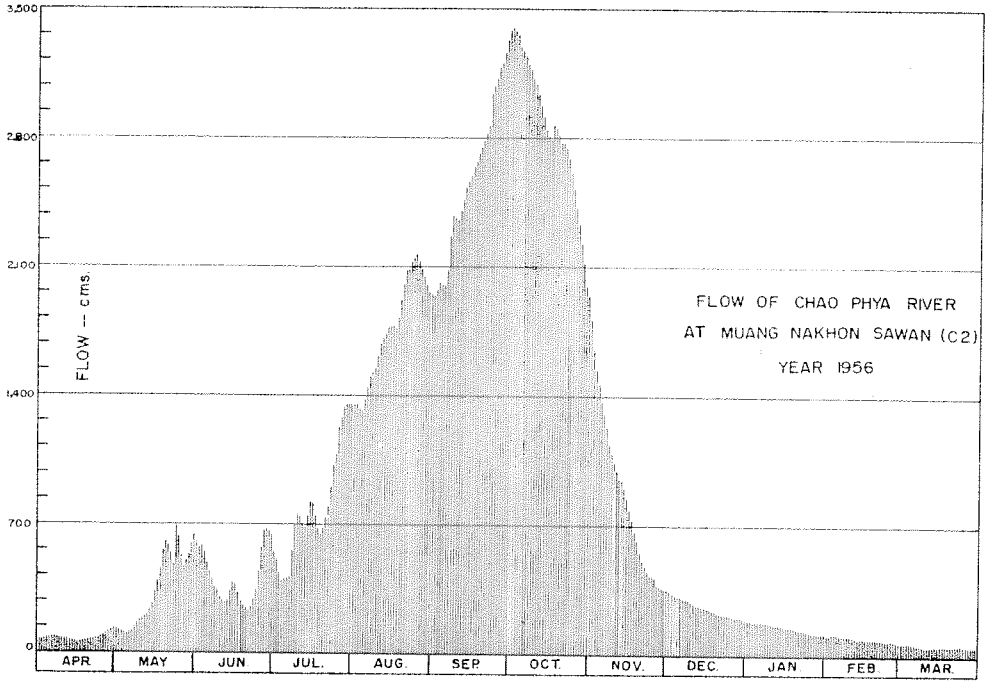
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. Upstream state diversions for irrigation of about 70,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17.44	17.84	19.72	19.36	21.40	22.92	24.82	22.68	19.09	18.39	17.96	17.70
2	.46	.81	.63	.19	.40	.98	.81	.48	.05	.38	.95	.68
3	.48	.78	.53	.08	.39	23.05	.79	.25	.02	.36	.95	.66
4	.50	.75	.49	.03	.37	.04	.74	.05	.00	.35	.94	.65
5	.52	.72	.38	.06	.45	.03	.75	21.75	18.98	.34	.94	.64
6	17.54	17.76	19.21	19.08	21.66	23.18	24.72	21.68	18.94	18.33	17.94	17.62
7	.55	.77	.05	.09	.76	.45	.69	.49	.92	.31	.95	.60
8	.55	.95	18.89	.44	.81	.51	.62	.36	.92	.30	.90	.59
9	.53	18.04	.80	.90	.86	.53	.57	.26	.90	.28	.89	.58
10	.50	.12	.75	20.02	.96	.55	.54	.15	.89	.26	.88	.57
11	17.47	18.17	18.69	19.97	22.14	23.67	24.50	21.02	18.84	18.24	17.86	17.57
12	.45	.21	.63	.91	.21	.76	.46	20.95	.81	.23	.85	.56
13	.42	.29	.59	.90	.27	.86	.40	.88	.80	.22	.84	.56
14	.40	.44	.79	20.08	.32	.91	.38	.76	.78	.21	.83	.55
15	.39	.62	.94	.26	.34	.94	.35	.65	.75	.20	.86	.55
16	17.37	18.81	18.90	20.22	22.33	24.02	24.32	20.46	18.74	18.19	17.82	17.54
17	.39	19.06	.75	.65	.31	.05	.41	.29	.71	.18	.81	.56
18	.41	.22	.63	19.90	.38	.09	.40	.09	.69	.17	.80	.57
19	.44	.55	.51	.77	.63	.13	.35	19.89	.65	.16	.79	.56
20	.44	.69	.43	.85	.74	.21	.30	.74	.63	.15	.78	.55
21	17.48	19.61	18.59	19.94	22.94	24.28	24.31	19.64	18.61	18.13	17.77	17.54
22	.48	.48	.45	20.10	.96	.34	.30	.55	.60	.12	.76	.54
23	.51	.27	.62	.34	23.07	.39	.22	.47	.58	.11	.75	.53
24	.56	.93	.79	.63	.15	.47	.12	.40	.56	.09	.75	.52
25	.59	.72	.97	.70	.19	.53	23.99	.33	.55	.04	.74	.51
26	17.66	19.35	19.52	21.12	23.14	24.58	23.84	19.29	18.53	18.01	17.73	17.52
27	.72	.25	.78	.23	.07	.65	.59	.23	.51	17.98	.72	.53
28	.76	.39	.81	.37	.01	.73	.48	.20	.48	.98	.71	.52
29	.82	.44	.77	.40	22.98	.78	.28	.18	.46	.92		.51
30	.85	.60	.65	.40	.94	.81	.09	.13	.44	.97		.50
31		.79		.40	.93		22.88		.40	.97		.50
Mean	17.52	18.75	19.03	20.09	22.36	23.91	24.26	20.94	18.73	18.18	17.84	17.57
Max.	17.85	19.93	19.81	21.40	23.19	24.81	24.82	22.68	19.09	18.09	18.39	17.70
Min.	17.37	17.72	18.39	19.03	21.37	22.92	22.88	19.13	18.40	17.97	17.71	17.50

WATER YEAR 1956 : Max. 24.82 m. Min. 17.37 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	64	129	600	523	1,347	1,936	3,392	1,745	351	186	111	69
2	66	124	571	469	1,347	1,967	3,380	1,641	340	184	110	67
3	69	118	559	422	1,329	2,003	3,351	1,524	327	180	114	64
4	72	113	526	402	1,320	1,998	3,280	1,462	322	178	113	63
5	75	108	491	410	1,356	1,993	3,266	1,346	317	176	113	62
6	78	115	457	416	1,448	2,072	3,225	1,315	312	174	113	60
7	79	117	402	419	1,499	2,333	3,189	1,208	305	176	111	57
8	79	149	363	546	1,523	2,368	3,176	1,151	303	174	106	56
9	76	167	338	705	1,546	2,356	3,116	1,078	298	170	105	55
10	72	182	300	758	1,593	2,344	3,081	1,024	284	166	103	54
11	68	192	284	747	1,679	2,415	3,035	929	273	162	96	54
12	65	209	277	699	1,713	2,470	2,989	950	266	160	94	52
13	61	217	282	695	1,742	2,552	2,925	942	264	158	93	52
14	58	248	344	762	1,767	2,565	2,856	902	260	156	92	51
15	57	592	385	830	1,777	2,608	2,807	855	253	154	92	51
16	54	344	374	815	1,772	2,659	2,780	781	251	152	90	50
17	57	413	319	718	1,762	2,679	2,865	718	245	150	89	52
18	59	462	287	670	1,797	2,706	2,855	660	240	148	87	54
19	64	568	257	645	1,925	2,734	2,807	590	232	146	86	54
20	64	614	242	695	1,983	2,794	2,762	527	228	144	85	52
21	69	587	258	929	2,083	2,818	2,771	490	224	140	84	51
22	69	546	255	789	2,077	2,856	2,762	463	222	138	82	51
23	73	478	300	881	2,126	2,959	2,692	448	218	136	80	50
24	81	699	357	1,017	2,153	3,068	2,611	427	214	132	80	49
25	85	624	408	1,046	2,164	3,128	2,515	424	212	124	79	48
26	97	504	581	1,224	2,121	3,179	2,410	415	208	119	78	49
27	108	472	665	1,271	2,072	3,200	2,316	395	204	114	72	50
28	115	517	674	1,333	2,024	3,286	2,189	367	204	114	70	49
29	126	533	659	1,347	1,998	3,345	2,072	361	200	113		48
30	131	584	617	1,342	1,962	3,380	1,966	361	196	113		46
31		648		1,347	1,946		1,851		188	113		46
Total	2,291	11,064	12,370	24,625	54,951	78,759	87,272	25,525	7,959	4,650	2,628	1,666.
Mean	76	357	412	796	1,892	2,625	2,815	850	257	150	94	54
Max.	131	699	674	1,347	2,164	3,380	3,392	1,745	351	186	114	69
Min.	54	108	258	402	1,320	1,936	1,851	361	188	113	70	46
Runoff - mcm.	198.042	959.930	1,068.768	2,131.920	4,747.766	6,804.778	7,540.301	2,205.360	687.658	401.760	227.059	143.942

WATER YEAR 1956 : Max. 3,392 Min. 46 Mean 860 Annual Runoff 27,113.184 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	06.00	24.82	3,392				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Wat Khao Chang, Sing Buri (C.5)

Location: Lat 14°- 45' - 52" N, Long 100°- 26' - 59" E, on left bank at Ban Wat Khao Chang, Amphoe Phrom Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.50 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: 1914 - 1948, 1955 - 1956

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.

Overbank Flow Conditions: Overbank flow was observed at elevation +7.66 m. (M.S.L.) but not included for flow computation.

General Description: Records fair except those for period of no gage height record. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions except those built by local residents. No adjustments made for virgin flow.

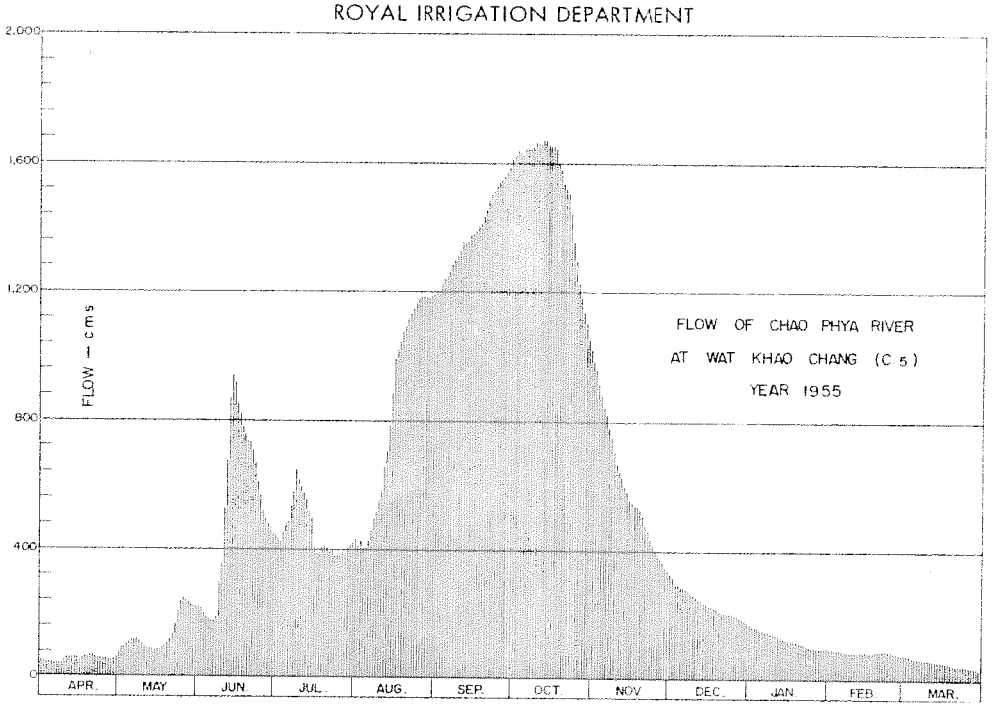
Remarks: Estimated data for period Oct.29 - Nov.10

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.84	3.14	4.10	5.18	5.14	7.70	8.44	7.18	4.65	3.78	3.27	3.11
2	.86	.25	.07	.14	.05	.72	.45	.06	.56	.76	.27	.10
3	.85	.31	3.99	.11	.12	.76	.45	6.94	.46	.73	.26	.07
4	.83	.32	.91	.24	.00	.80	.44	.84	.48	.71	.25	.04
5	.83	.38	.86	.35	.04	.83	.46	.74	.44	.69	.24	.03
6	2.79	3.46	3.85	5.40	5.13	7.87	8.46	6.61	4.41	3.67	3.22	3.01
7	.79	.45	.84	.59	.31	.91	.46	.47	.39	.64	.21	.00
8	.80	.43	.93	.78	.43	.93	.47	.39	.36	.65	.19	2.99
9	.81	.41	4.37	.98	.56	.96	.48	.25	.33	.62	.19	.98
10	.93	.36	.86	.91	.67	.99	.48	.10	.30	.60	.19	.96
11	2.98	3.30	5.51	5.81	5.81	8.05	8.48	6.02	4.26	3.58	3.19	2.95
12	.99	.26	6.24	.73	6.05	.03	.49	5.92	.23	.56	.18	.94
13	3.00	.22	.80	.64	.27	.03	.49	.80	.21	.53	.18	.93
14	.00	.20	7.00	.56	.49	.08	.47	.71	.18	.51	.18	.92
15	2.98	.19	6.34	.43	.84	.08	.47	.65	.16	.49	.18	.91
16	2.97	3.21	6.78	5.05	7.16	8.10	8.47	5.62	4.13	3.46	3.19	2.90
17	.98	.24	.61	4.94	.26	.12	.45	.48	.11	.45	.19	.89
18	3.01	.26	.50	.98	.32	.14	.41	.57	.09	.44	.19	.87
19	.02	.30	.41	5.02	.40	.18	.36	.52	.06	.43	.20	.84
20	.04	.35	.35	.04	.45	.21	.32	.46	.04	.41	.20	.85
21	3.03	3.45	6.34	5.01	7.50	8.25	8.29	5.35	4.05	3.39	3.21	2.82
22	.01	.58	.25	4.97	.54	.28	.27	.24	.00	.37	.21	.80
23	2.98	.78	.09	.98	.57	.30	.17	.15	.00	.35	.21	.79
24	.97	4.01	5.88	.90	.62	.32	.06	.05	.00	.31	.20	.77
25	.95	.18	.70	.93	.66	.35	7.89	4.97	3.98	.29	.18	.75
26	2.95	4.24	5.51	4.92	7.47	8.34	7.81	4.91	3.96	3.29	3.16	2.74
27	.92	.21	.40	.96	.67	.36	.66	.88	.94	.28	.14	.73
28	.92	.16	.56	.97	.66	.38	.56	.81	.91	.28	.12	.73
29	.95	.12	.28	5.04	.66	.39	.46	.74	.89	.28	.12	.73
30	3.01	.11	.21	.07	.67	.42	.38	.68	.87	.27		.72
31		.10		.09	.68		.29		.82	.27		.72
Mean	2.93	3.55	5.43	5.25	6.59	8.09	8.26	5.74	4.17	3.48	3.19	2.89
Max.	3.04	4.24	7.00	5.98	7.68	8.42	8.49	7.18	4.65	3.78	3.27	3.11
Min.	2.79	3.14	3.83	4.90	5.00	7.70	7.29	4.68	3.82	3.27	3.12	2.72

WATER YEAR 1955 : Max. 8.49 m. Min. 2.72 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	49	81	224	446	425	1,300	1,629	1,000	326	170	98	78
2	51	95	218	448	415	1,208	1,638	960	312	167	98	77
3	50	102	209	435	420	1,226	1,658	920	292	162	96	75
4	48	104	201	436	404	1,284	1,629	888	296	159	95	69
5	48	113	198	448	412	1,257	1,646	856	288	156	94	68
6	46	122	178	442	432	1,276	1,646	816	282	153	91	66
7	45	121	169	543	424	1,295	1,646	776	279	149	90	65
8	46	118	175	569	502	1,307	1,654	742	273	147	87	64
9	46	116	225	643	554	1,320	1,663	712	267	146	87	63
10	48	109	279	625	561	1,335	1,663	672	262	143	87	61
11	65	102	321	597	597	1,356	1,653	651	254	140	87	60
12	64	96	279	576	659	1,356	1,671	626	246	137	86	59
13	65	91	276	554	718	1,358	1,671	598	244	132	86	58
14	65	89	260	534	781	1,385	1,654	571	239	129	86	57
15	65	87	243	503	886	1,384	1,654	556	235	126	86	56
16	62	90	868	415	906	1,394	1,654	549	229	122	87	55
17	62	94	817	390	1,029	1,406	1,638	539	225	121	87	54
18	66	98	786	399	1,061	1,619	1,604	536	222	120	87	52
19	67	101	712	408	1,088	1,446	1,581	524	217	118	89	49
20	69	108	760	412	1,100	1,464	1,536	509	213	116	89	48
21	68	121	737	466	1,120	1,490	1,515	485	212	113	90	47
22	66	140	712	397	1,136	1,509	1,502	458	207	111	90	46
23	65	170	669	399	1,148	1,522	1,458	432	207	108	90	45
24	62	208	615	382	1,168	1,536	1,372	410	207	103	89	43
25	60	239	569	382	1,184	1,544	1,285	397	203	100	86	41
26	60	250	521	386	1,188	1,551	1,248	384	200	100	84	40
27	57	244	495	395	1,188	1,566	1,184	527	196	99	81	39
28	57	235	485	397	1,184	1,581	1,144	365	191	99	79	39
29	60	227	467	412	1,184	1,588	*1,104	348	188	99	79	39
30	66	225	451	419	1,188	1,612	*1,072	336	185	98		38
31		224		423	1,192		*1,040		177	98		38
Total	1,752	4,319	15,872	14,319	26,374	42,127	46,682	17,996	7,376	3,941	2,551	1,677
Mean	58.4	139	529	462	851	1,404	1,506	600	238	127	88.0	54.1
Max.	69	250	940	641	1,192	1,612	1,671	1,000	326	170	98	78
Min.	45	81	178	382	404	1,200	1,040	336	177	98	79	38
Runoff - mcm.	151.373	373.163	1,371.648	1,237.162	2,278.714	3,639.773	4,033.325	1,554.854	637.286	340.502	220.406	144.029

WATER YEAR 1955 : Max. 1,671 Min. 38 Mean 505 Annual Runoff 15,982.791 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	18.00	8.49	1,671				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Wat Khao Chang, Sing Buri (C.5)

Location: Lat 14°- 45' - 52" N, Long 100°- 26' - 59" E, on left bank at Ban Wat Khao Chang, Amphoe Phrom Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.50 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: 1914 - 1948, 1955 - 1956

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.

Overbank Flow Conditions: Overbank flow was observed at elevation +7.66 m. (M.S.L.) but not included for flow computation.

General Description: Records fair. Stage discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustments made for virgin flow.

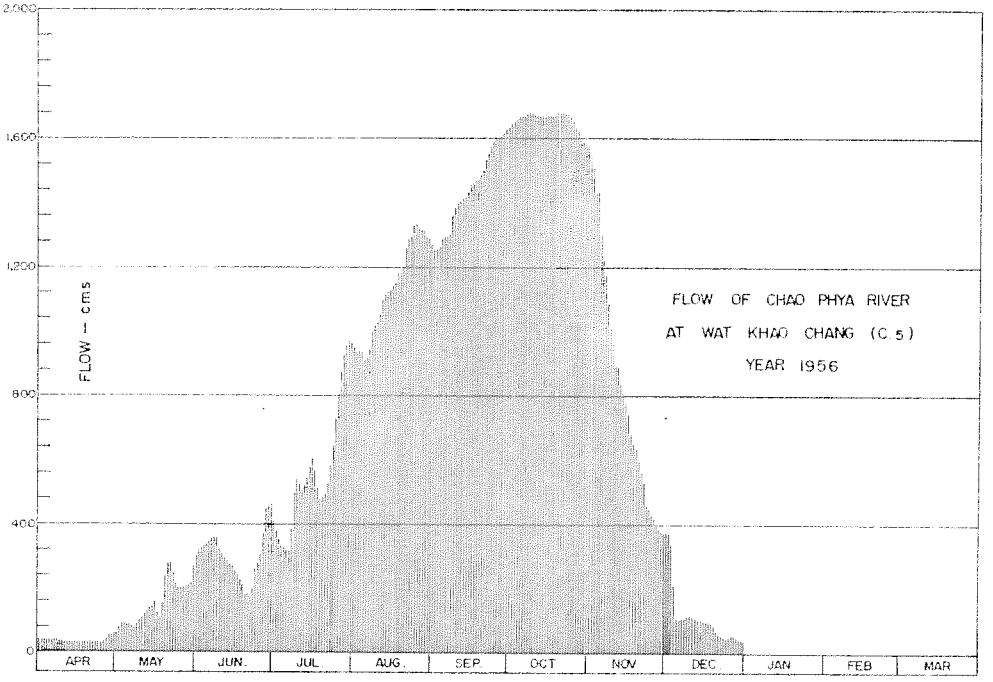
Remarks: Ending of records on Jan. 1, record poor for Dec. 1 - 30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.73	3.01	4.52	5.05	7.04	7.83	8.46	8.34	4.87			
2	.72	.18	.62	4.92	6.98	.83	.47	.29	.85			
3	.72	.20	.65	.77	7.01	.85	.48	.16	.55			
4	.72	.21	.69	.65	6.99	.91	.49	.17	5.48			
5	.72	.20	.73	.69	.91	.91	.49	.01	.30			
6	2.72	3.20	4.77	4.62	6.95	7.91	8.49	7.85	3.36			
7	.71	.18	.79	.61	7.05	.93	.50	.65	.35			
8	.70	.16	.80	.94	.20	8.05	.50	.42	.34			
9	.70	.23	.78	5.43	.25	.09	.50	.22	.38			
10	.70	.31	.61	.61	.28	.10	.49	.10	.43			
11	2.69	3.39	4.54	5.53	7.37	8.12	8.49	6.86	3.39			
12	.69	.48	.19	.46	.45	.13	.49	.86	.34			
13	.69	.54	.45	.54	.50	.14	.49	.72	.32			
14	.68	.61	.39	.64	.51	.17	.49	.56	.30			
15	.68	.64	.36	.77	.53	.20	.49	.49	.29			
16	2.68	3.71	4.28	5.85	7.56	8.21	8.49	6.38	3.28			
17	.67	.48	.20	.67	.58	.22	.49	.16	.27			
18	.67	.36	.14	.48	.65	.23	.50	.02	.24			
19	.67	.69	3.99	.35	.66	.25	.50	5.96	.13			
20	.67	4.19	.79	.37	.71	.28	.50	.80	.00			
21	2.67	4.41	3.81	5.41	7.84	8.32	8.50	5.71	2.95			
22	.66	.41	.89	.58	.90	.35	.50	.56	.93			
23	.66	.26	4.04	.75	.92	.38	.50	.26	.86			
24	.66	.05	.33	6.08	.98	.40	.49	.20	.76			
25	.66	.00	.41	.35	.98	.41	.47	.10	.84			
26	2.69	4.00	4.58	6.60	7.95	8.41	8.45	5.09	2.91			
27	.78	.01	.87	.78	.95	.42	.43	4.98	.88			
28	.88	.03	5.21	.99	.95	.43	.40	.93	.82			
29	.92	.04	.24	7.05	.92	.44	.40	.89	.80			
30	.93	.10	.27	.11	.90	.45	.39	.85	.79			
31		.35		.08	.86		.38		.78			
Mean	2.71	3.66	4.51	5.67	7.53	8.18	8.47	6.45	3.28			
Max.	2.93	4.41	5.27	7.11	7.98	8.45	8.50	8.34	4.87			
Min.	2.66	3.01	3.79	4.61	6.91	7.83	8.38	4.85	2.76			

WATER YEAR 1956 : Max. 8.50 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39	66	304	415	955	1,252	1,646	1,551	575			
2	38	86	324	385	953	1,252	1,654	1,515	571			
3	38	89	330	354	943	1,267	1,663	1,442	518			
4	38	90	338	330	966	1,295	1,671	1,400	125	Ending of record		
5	38	89	346	330	989	1,295	1,671	1,345	102	Jan. 1,1957		
6	38	89	354	324	925	1,295	1,671	1,267	109			
7	37	86	358	322	957	1,305	1,680	1,180	108			
8	37	84	361	330	1,008	1,367	1,680	1,088	107			
9	37	92	356	502	1,026	1,388	1,680	1,015	112			
10	37	103	322	546	1,026	1,394	1,671	974	118			
11	36	113	308	526	1,069	1,436	1,671	900	113			
12	36	125	298	509	1,100	1,413	1,671	893	107			
13	36	134	290	529	1,129	1,419	1,671	850	104			
14	35	144	279	554	1,134	1,438	1,671	802	102			
15	35	149	273	587	1,132	1,458	1,671	781	100			
16	35	159	258	607	1,144	1,464	1,671	749	99			
17	34	125	243	561	1,152	1,470	1,671	688	98			
18	34	109	231	514	1,160	1,477	1,680	651	94			
19	34	156	205	483	1,184	1,490	1,680	636	80			
20	34	241	172	488	1,208	1,509	1,680	595	65			
21	34	282	175	497	1,252	1,536	1,680	571	60			
22	33	282	188	539	1,290	1,559	1,680	534	58			
23	33	254	213	582	1,308	1,581	1,680	482	51			
24	33	215	262	666	1,330	1,596	1,671	449	42			
25	33	207	282	740	1,330	1,604	1,654	426	49			
26	36	207	316	814	1,315	1,604	1,638	423	56			
27	44	208	375	868	1,315	1,612	1,621	399	53			
28	55	212	451	936	1,315	1,621	1,596	388	47			
29	57	213	458	957	1,300	1,629	1,596	379	46			
30	58	224	465	972	1,290	1,638	1,588	371	45			
31		271		967	1,271		1,581		44			
Total	1,140	4,904	9,130	17,800	35,351	43,644	51,409	24,750	3,358			
Mean	38.0	154	304	574	1,140	1,454	1,658	825	108			
Max.	58	282	465	972	1,330	1,638	1,680	1,551	375			
Min.	33	66	172	322	909	1,257	1,581	371	42			
Runoff - mcm.	98.496	423.706	788.832	1,537.920	3,054.326	3,770.842	4,441.738	2,137.968	290.131			

WATER YEAR 1956 : Max. 1,680 Min. Mean Annual Runoff mcm.

Momentary Peck Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 8	06.00	8.59	1,680				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.7)

Location: Lat 14°- 35' - 09" N, Long 100°- 27' - 12" E, on left bank infront of police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m. (M.S.L.)

Bench Mark: P.W. - C.7

Location: On left bank infront 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: 1951 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 year without actual ratings.

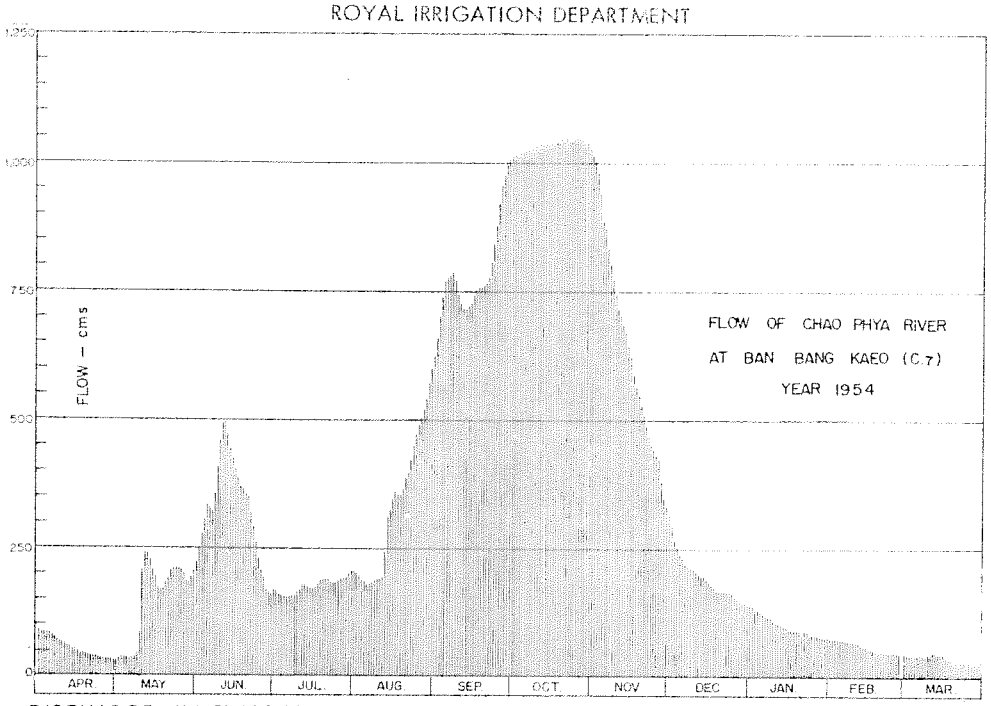
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.91	1.13	3.02	2.65	2.89	5.06	6.16	6.16	3.59	2.41	1.78	1.37
2	.88	.18	.18	.62	.88	.17	.17	.15	.47	.40	.76	.36
3	.86	.23	.37	.57	.84	.28	.18	.09	.32	.36	.76	.34
4	.87	.25	.54	.54	.80	.45	.18	.03	.22	.33	.76	.34
5	.84	.22	.72	.53	.78	.55	.18	5.92	.15	.31	.75	.34
6	1.82	1.19	3.68	2.53	2.72	5.58	6.18	5.87	3.09	2.29	1.75	1.34
7	.76	.22	.62	.53	.72	.59	.19	.80	.05	.24	.74	.35
8	.71	.27	.59	.55	.75	.62	.19	.21	.00	.22	.74	.34
9	.66	.31	4.01	.55	.78	.58	.20	.62	2.97	.19	.73	.34
10	.62	.51	.31	.60	.80	.59	.21	.52	.95	.14	.70	.36
11	1.59	2.88	4.49	2.62	2.81	5.42	6.21	5.42	2.92	2.11	1.67	1.37
12	.55	3.14	.51	.69	.85	.39	.21	.37	.88	.09	.65	.40
13	.54	.15	.41	.72	3.11	.37	.21	.29	.85	.06	.61	.39
14	.50	.09	.28	.69	.58	.40	.21	.22	.85	.05	.57	.38
15	.47	2.94	.19	.67	.66	.42	.21	.13	.81	.02	.55	.36
16	1.42	2.87	4.09	2.65	3.77	5.46	6.22	5.06	2.78	1.99	1.52	1.35
17	.39	.72	3.98	.67	.83	.50	.22	4.92	.74	.95	.51	.24
18	.36	.65	.89	.72	.81	.52	.22	.81	.71	.95	.49	.22
19	.34	.64	.89	.77	.79	.52	.23	.73	.66	.94	.48	.20
20	.32	.71	.84	.82	.86	.53	.23	.66	.64	.94	.46	.19
21	1.30	2.78	3.79	2.80	5.96	5.54	6.23	4.59	2.64	1.84	1.43	1.18
22	.29	.90	.65	.79	4.06	.58	.23	.47	.64	.93	.42	.16
23	.26	.94	.49	.74	.20	.67	.23	.40	.63	.92	.42	.15
24	.24	.95	.31	.73	.32	.78	.23	.32	.63	.88	.41	.12
25	.21	.94	.12	.74	.42	.89	.23	.27	.60	.86	.41	.09
26	1.19	2.94	2.94	2.76	4.49	5.98	6.23	4.24	2.55	1.84	1.41	1.09
27	.19	.90	.86	.79	.55	6.05	.23	.19	.53	.83	.40	.09
28	.19	.80	.67	.82	.63	.09	.22	5.91	.49	.82	.39	.08
29	.17	.75	.60	.82	.72	.13	.22	.80	.47	.81		.08
30	.13	.80	.57	.85	.85	.16	.22	.72	.45	.80		.08
31		.95		.90	.95		.19		.43	.80		.08
Mean	1.49	2.35	3.62	2.69	3.62	5.59	6.21	5.04	2.81	2.04	1.58	1.25
Max.	1.91	3.15	4.51	2.90	4.95	6.16	6.23	6.16	3.59	2.41	1.78	1.40
Min.	1.13	1.13	2.57	2.53	2.72	5.06	6.16	3.72	2.43	1.80	1.39	1.08

WATER YEAR 1954 : Max. 6.23 m. Min. 1.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	88	30	221	167	202	625	1,005	1,005	512	140	76	45
2	85	33	245	166	202	653	1,010	1,000	292	139	75	44
3	89	36	275	159	195	683	1,016	969	267	134	75	43
4	84	36	304	156	189	735	1,016	959	251	131	75	43
5	82	35	336	155	186	763	1,016	885	240	128	74	43
6	80	33	328	155	179	772	1,016	865	231	126	74	43
7	76	35	318	155	178	775	1,021	842	222	120	73	43
8	71	38	330	157	182	784	1,021	813	218	118	73	43
9	67	41	340	157	186	772	1,026	784	212	115	72	43
10	64	55	452	165	189	748	1,052	754	210	110	70	44
11	61	202	489	166	190	724	1,052	724	206	107	68	45
12	58	259	496	175	196	715	1,052	709	202	105	66	47
13	57	240	473	179	256	709	1,052	685	196	102	65	46
14	54	231	446	175	311	718	1,052	666	196	101	60	46
15	52	209	427	172	325	724	1,057	643	190	98	58	44
16	48	199	406	169	345	736	1,057	625	186	95	56	43
17	45	179	384	172	356	748	1,057	591	181	91	55	36
18	44	169	367	179	362	754	1,057	564	176	91	53	35
19	42	168	362	185	346	754	1,043	545	170	91	52	34
20	41	177	358	192	341	757	1,043	529	168	91	51	33
21	40	186	348	189	380	760	1,043	515	166	82	49	35
22	39	203	323	188	400	772	1,043	486	168	98	48	32
23	38	209	295	181	429	800	1,043	471	167	89	48	31
24	36	210	266	180	494	836	1,043	454	167	85	48	29
25	35	209	236	181	475	872	1,043	444	165	83	46	27
26	33	209	209	184	490	914	1,043	437	157	82	48	27
27	33	203	197	188	505	949	1,043	427	155	81	47	27
28	33	189	172	192	522	959	1,037	371	150	80	46	27
29	32	182	163	192	543	940	1,037	350	147	79		27
30	30	189	159	196	574	1,005	1,037	336	145	78		27
31		207		203	598		1,021		143	78		27
Total	1,634	4,581	9,778	5,428	10,279	25,514	31,969	19,416	6,058	3,140	1,702	1,157
Mean	54.5	148	326	175	331	784	1,031	647	195	101	60.8	37.3
Max.	88	240	494	203	598	1,005	1,043	1,005	512	140	76	47
Min.	30	30	159	155	179	625	1,005	336	143	78	46	27
Runoff - mcm.	141.178	395.798	844.819	468.979	887.760	2,031.610	2,762.112	1,677.542	523.411	271.296	147.053	99.965

WATER YEAR 1954 : Max. 1,043 Min. 27 Mean 325 Annual Runoff 10,251.533mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	12.00	6.23	1,095				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.7)

Location: Lat 14°- 35' - 05" N. Long 100°- 27' - 12" E, on left bank infront of police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m. (M.S.L.)

Bench Mark: B.M. - C.7

Location: On left bank infront 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

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

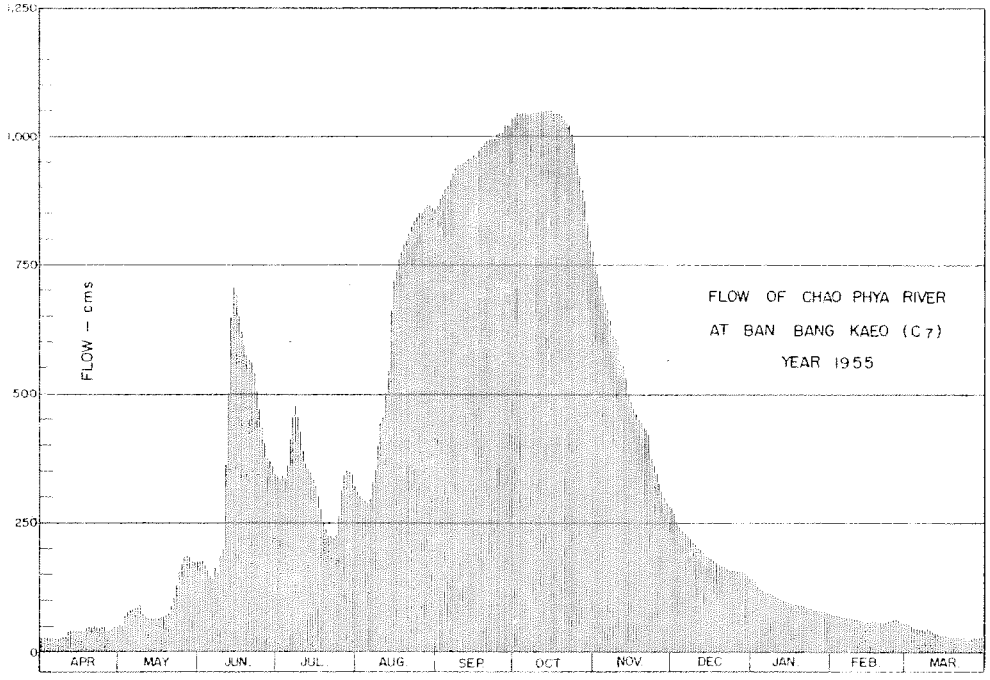
Remarks: No gage - height record Mar.25 - 31; discharge estimated on basis of records for nearby stations.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.07	1.46	2.64	3.67	3.57	5.86	6.22	5.49	3.31	2.39	1.72	1.53
2	.07	.39	.63	.64	.53	.90	.23	.41	.21	.34	.71	.51
3	.06	.73	.57	.66	.50	.92	.23	.33	.16	.26	.70	.45
4	.06	.77	.48	.73	.46	.94	.23	.29	.11	.22	.68	.41
5	.04	.82	.40	.81	.45	.96	.23	.22	.08	.20	.66	.39
6	1.04	1.84	2.37	4.09	3.59	5.98	6.23	5.14	3.04	2.17	1.65	1.37
7	.04	.86	.57	.34	.57	6.01	.23	.01	.01	.15	.64	.36
8	.04	.89	.48	.44	.69	.02	.24	.01	2.96	.14	.63	.36
9	.06	.93	.79	.36	.94	.04	.24	4.95	.94	.11	.62	.34
10	.07	.73	.87	.21	4.12	.04	.24	.87	.91	.09	.61	.32
11	1.24	1.67	3.87	4.00	4.19	6.04	6.24	4.79	2.87	2.06	1.59	1.29
12	.30	1.62	4.54	3.88	.37	.05	.24	.68	.83	.05	.58	.26
13	.31	.62	5.14	.82	.55	.06	.24	.57	.79	.04	.56	.21
14	.31	.62	.36	.79	5.01	.06	.24	.48	.75	.02	.56	.19
15	.30	.62	.33	.72	.38	.06	.24	.41	.74	1.98	.57	.17
16	1.29	1.62	5.19	3.66	5.45	6.08	6.23	4.37	2.71	1.95	1.55	1.16
17	.27	.64	.05	.49	.55	.08	.23	.31	.68	.94	.55	.15
18	.30	.66	4.93	.37	.58	.11	.23	.28	.65	.94	.54	.14
19	.40	.71	.85	.23	.65	.13	.22	.23	.64	.93	.54	.14
20	.39	.74	.82	.11	.66	.15	.21	.21	.62	.93	.54	.13
21	1.41	1.91	4.80	3.05	5.70	6.13	6.19	4.15	2.59	1.88	1.55	1.12
22	.39	2.08	.74	.03	.74	.14	.16	3.93	.56	.88	.57	.11
23	.37	.28	.59	.01	.76	.14	.13	.88	.55	.86	.60	.08
24	.33	.50	.40	.05	.80	.15	.11	.78	.55	.83	.63	.02
25	.41	.66	.24	.28	.83	.16	.04	.69	.55	.82	.64	
26	1.30	2.74	4.08	3.59	5.83	6.16	5.98	3.60	2.54	1.81	1.68	
27	.31	.76	3.92	.77	.85	.19	.93	.53	.54	.79	.60	
28	.34	.74	.87	.83	.87	.19	.86	.45	.54	.77	.56	
29	.38	.68	.81	.80	.86	.19	.76	.42	.51	.75	.54	
30	.43	.65	.72	.69	.84	.21	.66	.39	.48	.75		
31		.64		.63	.84		.59		.42	.74		
Mean	1.24	1.99	3.89	3.67	4.89	6.07	6.13	4.43	2.77	1.99	1.60	
Max.	1.43	2.76	5.36	4.44	5.87	6.21	6.24	5.49	3.31	2.39	1.72	
Min.	1.04	1.39	2.37	3.01	3.45	5.86	5.59	3.39	2.42	1.74	1.54	

WATER YEAR 1955 : Max. 6.24 m. Min. 1.02 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26	51	168	327	309	862	1,037	745	266	138	72	56
2	26	46	167	321	302	875	1,043	721	250	132	71	55
3	26	72	159	325	297	885	1,043	697	242	123	70	50
4	26	76	149	337	290	895	1,043	685	234	118	68	48
5	25	80	139	342	288	904	1,043	666	230	116	67	46
6	25	82	135	406	297	914	1,043	645	224	115	66	45
7	25	83	137	458	309	929	1,043	612	219	111	65	44
8	25	86	149	479	330	944	1,048	612	212	110	64	44
9	26	90	188	463	377	944	1,048	598	209	107	64	43
10	26	72	199	431	412	944	1,048	579	204	105	63	42
11	36	68	363	388	427	944	1,048	560	199	102	61	39
12	40	64	501	369	465	949	1,048	533	195	101	60	38
13	41	64	645	354	503	954	1,048	508	188	100	59	35
14	41	64	706	348	612	954	1,048	488	182	98	59	33
15	40	64	697	336	712	954	1,048	473	181	94	60	32
16	39	64	658	325	733	964	1,043	465	177	91	58	32
17	38	65	622	295	757	964	1,043	452	173	91	58	31
18	40	67	595	275	772	979	1,043	445	169	91	57	30
19	47	71	574	253	788	990	1,037	435	168	90	57	30
20	46	73	567	234	797	990	1,032	431	166	90	57	30
21	48	88	562	225	810	990	1,021	418	162	85	58	29
22	45	104	548	222	823	995	1,005	375	158	85	60	29
23	45	125	513	219	829	995	990	365	157	83	62	27
24	42	151	471	225	842	1,000	979	346	157	81	64	24
25	48	171	437	261	852	1,005	944	330	157	80	65	24
26	40	181	404	312	852	1,005	914	314	156	79	68	23
27	41	184	373	345	855	1,021	890	302	156	77	62	24
28	43	181	363	356	865	1,021	862	288	156	76	59	26
29	46	175	352	350	862	1,021	829	283	152	74	57	27
30	49	169	336	350	855	1,032	797	278	149	74		29
31		168		319	855		775		141	73		34
Total	1,112	3,097	11,875	10,236	19,077	28,813	30,883	14,649	5,787	2,988	1,811	1,099
Mean	37.1	99.9	396	330	615	960	996	488	187	96.4	62.4	35.4
Max.	49	184	706	479	865	1,032	1,048	745	266	138	72	56
Min.	25	46	135	219	288	862	775	278	141	73	57	23
Runoff - mcm.	96.077	267.581	1026.000	884.390	1,648.253	2,489.443	2,668.291	1,265.674	499.997	258.163	156.470	94.954

WATER YEAR 1955 : Max. 1,048 Min. 25 Mean 359 Annual Runoff 11,355.293 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	06.00	6.24	1,162				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C.7)

Location: Lat 14° - 35' - 08" N. Long 100° - 27' - 12" E, on left bank infront of police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +0.94 m. (M.S.L.)

Bench Mark: B.M. - C.7

Location: On left bank infront 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: 1950 to date.

Rating Operation:

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

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

Overbank Flow Conditions: No overbank flow.

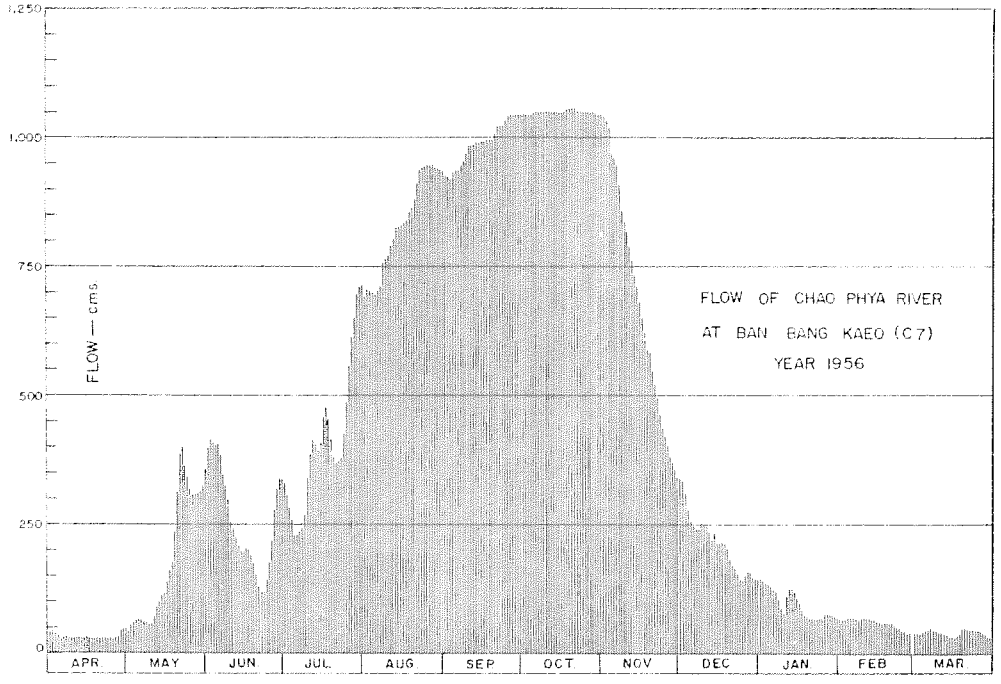
General Description: Records fair. Stage discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.28	1.29	4.06	3.63	5.28	6.01	6.23	6.22	3.75	2.42	1.65	1.24
2	.38	.46	.13	.50	.35	5.99	.23	.21	.70	.39	.65	.24
3	.25	.56	.09	.28	.34	.99	.23	.18	.51	.36	.66	.24
4	.13	.63	.07	.16	.33	6.01	.23	.08	.36	.34	.70	.30
5	.01	.64	.08	.04	.24	.02	.24	.07	.22	.30	.66	.34
6	1.16	1.63	3.87	3.08	5.35	6.02	6.24	6.02	3.18	2.27	1.69	1.34
7	.15	.60	.75	.13	.38	.04	.24	5.95	.15	.21	.66	.43
8	.14	.53	.62	.17	.51	.06	.24	.80	.15	.06	.65	.32
9	.14	.52	.55	.32	.55	.09	.24	.78	.23	1.92	.65	.29
10	.14	.51	.20	3.82	.57	.12	.24	.68	.21	.59	.66	.27
11	1.13	1.69	3.11	4.03	5.63	6.12	6.24	5.62	3.19	2.07	1.66	1.27
12	.13	.97	2.99	.12	.67	.12	.24	.51	.11	.26	.65	.32
13	.13	2.06	.91	.02	.74	.13	.24	.42	2.98	.27	.64	.18
14	.12	.14	.84	.01	.74	.13	.24	.35	3.09	.20	.62	.14
15	.12	.21	.85	.12	.76	.13	.24	.25	2.96	.07	.58	.09
16	1.12	2.38	2.90	4.34	5.77	6.13	6.24	5.14	2.97	2.01	1.55	1.08
17	.11	.57	.83	.42	.79	.14	.24	.01	.97	1.82	.54	.13
18	.11	.69	.73	.22	.82	.14	.25	4.89	.96	.73	.54	.20
19	.11	3.08	.60	.04	.85	.14	.25	.88	.89	.68	.56	.43
20	.11	.65	.58	3.91	.89	.16	.25	.69	.71	.65	.54	.38
21	1.11	3.97	2.24	3.89	5.97	6.19	6.25	4.60	2.64	1.65	1.53	1.32
22	.10	4.05	.20	.92	6.02	.19	.24	.49	.61	.64	.45	.34
23	.10	3.83	.17	.97	.03	.19	.24	.30	.49	.64	.41	.34
24	.10	.69	.36	4.19	.04	.21	.24	.21	.43	.64	.42	.32
25	.10	.59	.71	.48	.04	.22	.24	.14	.38	.65	.34	.31
26	1.13	3.54	3.01	4.77	6.04	6.23	6.24	4.07	2.47	1.78	1.32	1.28
27	.24	.56	.54	.99	.04	.23	.24	3.93	.56	.77	.19	.24
28	.36	.57	.66	5.13	.03	.23	.24	.90	.53	.75	.36	.21
29	.40	.58	.73	.33	.03	.23	.24	.81	.44	.75		.16
30	.41	.66	.72	.37	.03	.23	.23	.74	.43	.71		.08
31		.79		.38	.02		.23		.43	.66		.00
Mean	1.17	2.60	3.16	4.06	5.74	6.12	6.24	5.10	2.92	1.94	1.55	1.25
Max.	1.41	4.05	4.13	5.38	6.04	6.23	6.25	6.22	3.73	2.42	1.70	1.43
Min.	1.01	1.29	1.27	3.04	5.28	5.99	6.23	3.74	2.43	1.59	1.19	1.00

WATER YEAR 1956 : Max. 6.25 m. Min. 1.00 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39	39	480	319	683	929	1,043	1,037	337	141	66	36
2	45	51	414	297	705	919	1,043	1,052	332	138	66	36
3	37	59	406	261	709	919	1,043	1,016	299	134	67	36
4	30	64	402	242	697	929	1,043	984	274	132	70	40
5	23	65	404	224	672	954	1,048	959	251	127	67	45
6	32	64	363	230	705	934	1,048	934	245	124	69	43
7	31	62	337	237	712	944	1,048	899	240	117	67	49
8	30	56	318	243	751	954	1,048	842	240	102	66	41
9	30	56	272	267	763	969	1,048	836	253	89	66	39
10	30	55	248	354	769	984	1,048	804	250	61	67	38
11	30	69	234	398	788	984	1,048	784	246	103	67	38
12	30	93	216	412	800	984	1,048	751	234	123	66	35
13	30	102	204	392	823	990	1,048	724	215	124	65	33
14	29	110	195	390	823	960	1,048	703	231	116	64	30
15	29	117	196	412	829	990	1,048	674	212	103	60	27
16	29	157	206	458	852	990	1,048	645	213	97	58	27
17	29	159	193	475	839	995	1,048	612	213	80	57	30
18	29	175	180	453	849	995	1,054	584	212	72	57	34
19	29	230	163	398	958	995	1,054	581	202	68	59	46
20	29	319	137	371	872	1,005	1,054	536	177	66	57	46
21	29	382	120	367	909	1,021	1,054	515	168	66	56	41
22	28	398	116	375	924	1,021	1,048	490	164	65	50	43
23	28	356	113	382	939	1,021	1,048	459	150	65	47	43
24	28	330	134	427	944	1,032	1,046	451	143	65	48	41
25	28	312	177	488	944	1,037	1,048	416	137	66	42	41
26	30	304	219	555	944	1,043	1,048	402	147	76	41	39
27	36	307	270	608	944	1,043	1,048	375	158	76	33	36
28	44	309	325	643	939	1,043	1,048	369	155	74	44	35
29	46	311	337	697	939	1,043	1,048	362	144	74		32
30	47	325	336	709	939	1,043	1,043	339	146	71		27
31		348		712	934		1,043		146	67		23
Total	964	5,764	7,628	12,772	25,775	29,680	32,482	20,056	6,528	2,882	1,644	1,151
Mean	32.1	185	254	412	831	989	1,048	668	210	93.0	58.7	37.1
Max.	47	398	414	712	944	1,043	1,054	1,037	337	141	70	49
Min.	23	39	113	224	683	919	1,043	339	137	65	33	23
Runoff - mcm.	83.290	498.010	659.059	1,103.501	2,226.960	2,564.352	2,806.445	1,732.838	564.019	249.085	142.042	99.446

WATER YEAR 1956 : Max. 1,054 Min. 23 Mean 404 Annual Runoff 12,728.966mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	09.00	6.25	1,054				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Phrom Sakhon, Sing Buri (C.10)

Location: Lat 14°- 52' - 57" N, Long 100°- 24' - 46" E, on left bank infront of Amphoe Muang, about 5 kilometers upstream from confluence of Khlong Lop Buri - Sing Buri, Amphoe Muang, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +4.00 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: 1941 - 48, 1955 - 56

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.

Overbank Flow Conditions: No overbank flow.

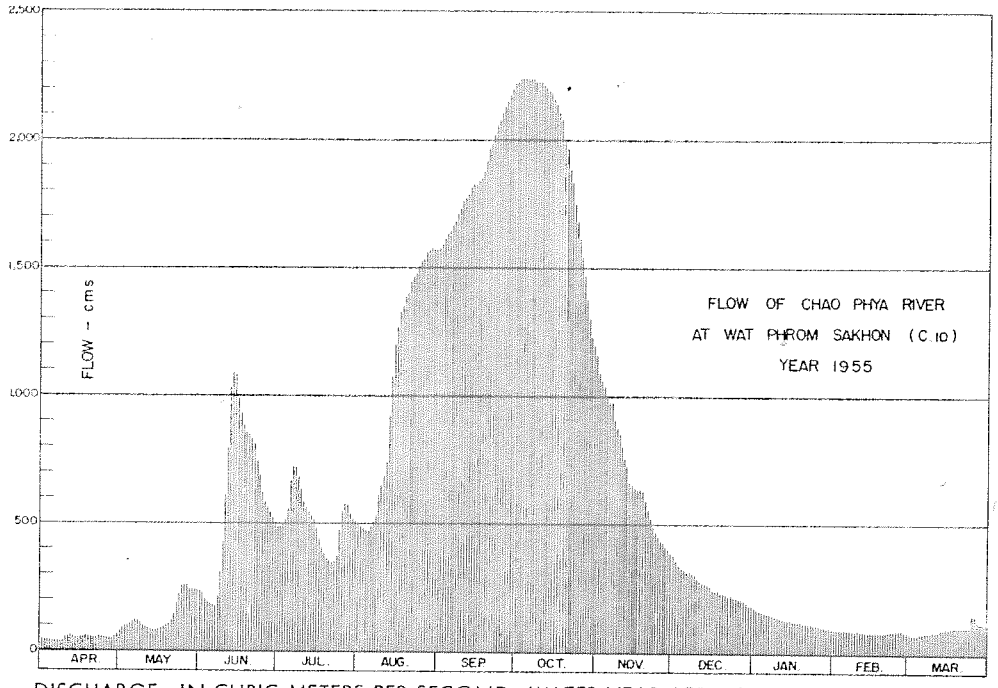
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.75	4.11	5.15	6.31	6.36	9.45	10.39	8.43	5.85	4.80	4.22	4.04
2	.73	.20	.09	.31	.32	.49	.40	.29	.77	.76	.21	.02
3	.70	.25	4.96	.35	.28	.53	.40	.21	.69	.74	.20	.01
4	.68	.26	.91	.42	.25	.58	.40	.15	.61	.72	.20	.02
5	.66	.32	.85	.60	.25	.62	.40	.05	.57	.69	.19	.04
6	3.66	4.41	4.82	6.96	6.31	9.65	10.40	7.97	5.54	4.67	4.18	4.06
7	.60	.43	.82	7.17	.40	.70	.39	.97	.53	.65	.17	.07
8	.66	.41	5.08	.17	.61	.74	.39	.80	.50	.62	.16	.08
9	.67	.34	.58	.03	.89	.79	.39	.68	.45	.60	.15	.09
10	.84	.29	6.10	6.84	7.05	.83	.39	.57	.41	.57	.17	.10
11	3.86	4.21	6.81	6.70	7.09	9.85	10.38	7.43	5.37	4.55	4.13	4.11
12	.88	.16	7.43	.61	.50	.87	.37	.50	.34	.53	.12	.13
13	.88	.13	8.15	.54	.81	.93	.36	.17	.31	.51	.11	.18
14	.87	.12	.27	.47	8.28	.93	.35	6.96	.29	.49	.11	.20
15	.86	.10	.25	.39	.62	.94	.34	.92	.26	.48	.11	.21
16	3.84	4.14	7.99	6.29	8.80	9.96	10.31	6.89	5.21	4.46	4.10	4.22
17	.84	.17	.82	.12	.88	.99	.28	.88	.19	.45	.10	.23
18	.89	.18	.66	5.97	.93	10.01	.26	.88	.17	.43	.10	.24
19	.93	.27	.59	.87	9.02	.08	.18	.84	.14	.41	.10	.25
20	.95	.33	.56	.76	.09	.13	.10	.74	.12	.39	.10	.25
21	3.93	4.44	7.51	5.71	9.15	10.17	10.02	6.58	5.09	4.38	4.10	4.25
22	.89	.66	.44	.70	.20	.20	9.95	.45	.07	.37	.12	.26
23	.86	.88	.23	.75	.24	.23	.80	.30	.05	.35	.13	.27
24	.86	5.10	.04	.83	.30	.25	.67	.24	.03	.34	.14	.34
25	.82	.23	6.81	6.25	.35	.29	.52	.17	.02	.32	.16	.65
26	3.82	5.27	6.66	6.57	9.37	10.31	9.35	6.09	5.00	4.31	4.18	4.68
27	.80	.25	.61	.66	.41	.33	.20	.05	4.97	.30	.16	.47
28	.80	.19	.52	.63	.43	.35	.00	5.99	.97	.29	.11	.40
29	.86	.16	.43	.53	.45	.37	8.83	.96	.90	.28	.08	.38
30	.96	.15	.36	.45	.43	.39	.65	.90	.82	.26		.38
31		.15		.40	.45		.58		.83	.24		.23
Mean	3.81	4.55	6.58	6.40	8.10	9.96	9.98	7.06	5.26	4.48	4.14	4.22
Max.	3.96	5.27	8.27	7.17	9.45	10.39	10.40	8.43	5.85	4.80	4.22	4.68
Min.	3.66	4.10	4.82	5.70	6.25	9.45	8.58	5.90	4.83	4.24	4.08	4.01

WATER YEAR 1955 : Max. 10.40 m. Min. 3.66 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	49	84	241	492	505	1,582	2,228	1,151	381	179	97	76
2	47	94	231	492	495	1,600	2,240	1,097	364	172	95	74
3	45	100	208	502	485	1,616	2,240	1,062	348	169	94	73
4	43	102	199	520	477	1,641	2,240	1,044	332	165	94	74
5	42	110	188	566	477	1,659	2,240	1,007	324	160	93	76
6	42	121	183	672	492	1,672	2,240	980	316	157	92	79
7	42	124	183	729	515	1,695	2,240	980	316	154	91	80
8	42	121	229	729	559	1,717	2,228	926	310	150	90	81
9	43	112	326	687	643	1,744	2,228	886	309	147	88	82
10	57	106	440	651	687	1,768	2,228	853	297	143	91	83
11	58	95	623	593	705	1,780	2,217	809	284	140	86	84
12	66	90	809	569	769	1,792	2,205	769	278	137	85	86
13	60	86	1,036	550	909	1,829	2,194	729	272	134	84	92
14	59	85	1,090	532	1,093	1,829	2,182	666	268	132	84	94
15	58	83	1,082	512	1,226	1,836	2,159	654	262	130	84	95
16	57	87	987	487	1,298	1,849	2,136	643	252	128	83	97
17	57	91	932	445	1,332	1,868	2,107	640	248	126	83	98
18	61	92	881	408	1,353	1,882	2,089	640	245	124	83	99
19	65	103	859	385	1,391	1,935	2,018	631	239	121	83	100
20	67	111	850	362	1,421	1,975	1,950	604	236	119	83	100
21	65	125	834	352	1,447	2,009	1,890	561	231	117	83	100
22	61	156	812	350	1,470	2,035	1,842	527	228	116	85	102
23	58	193	747	360	1,488	2,062	1,750	490	224	113	86	103
24	58	232	690	377	1,515	2,080	1,681	475	220	112	87	112
25	55	256	623	477	1,533	2,116	1,614	457	219	110	90	154
26	55	264	582	558	1,546	2,136	1,537	437	215	108	92	159
27	53	260	569	582	1,564	2,159	1,470	427	210	107	90	129
28	53	248	545	574	1,573	2,182	1,382	413	210	106	84	120
29	58	243	522	548	1,582	2,205	1,311	406	197	104	81	117
30	68	241	505	527	1,573	2,228	1,238	392	190	102		117
31		241		515	1,573		1,210		184	99		98
Total	1,644	4,456	18,006	16,083	33,716	56,483	60,534	21,363	8,206	4,081	2,541	3,054
Mean	54.8	144	600	519	1,088	1,883	1,953	712	265	132	87.6	97.9
Max.	68	264	1,090	729	1,582	2,228	2,240	1,151	381	179	97	159
Min.	42	83	183	350	477	1,582	1,210	392	184	99	81	73
Runoff - mcm.	142.042	384.998	1,555.718	1,389.571	2,913.062	4,880.131	5,230.138	1,845.763	708.998	352.598	219.542	262.138

WATER YEAR 1955 : Max. 2,240 Min. 42 Mean 629 Annual Runoff 19,884.701mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 7	18.00	10.40	2,240				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Phrom Sakhon, Sing Buri (C.10)

Location: Lat 14°- 52' - 57" N, Long 100°- 24' - 46" E, on left bank infront of Amphoe Muang, about 5 kilometers upstream from confluence of Khlong Lop Buri - Sing Buri, Amphoe Muang, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +4.00 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: 1941 - 48, 1955 - 56

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.

Overbank Flow Conditions: No overbank flow.

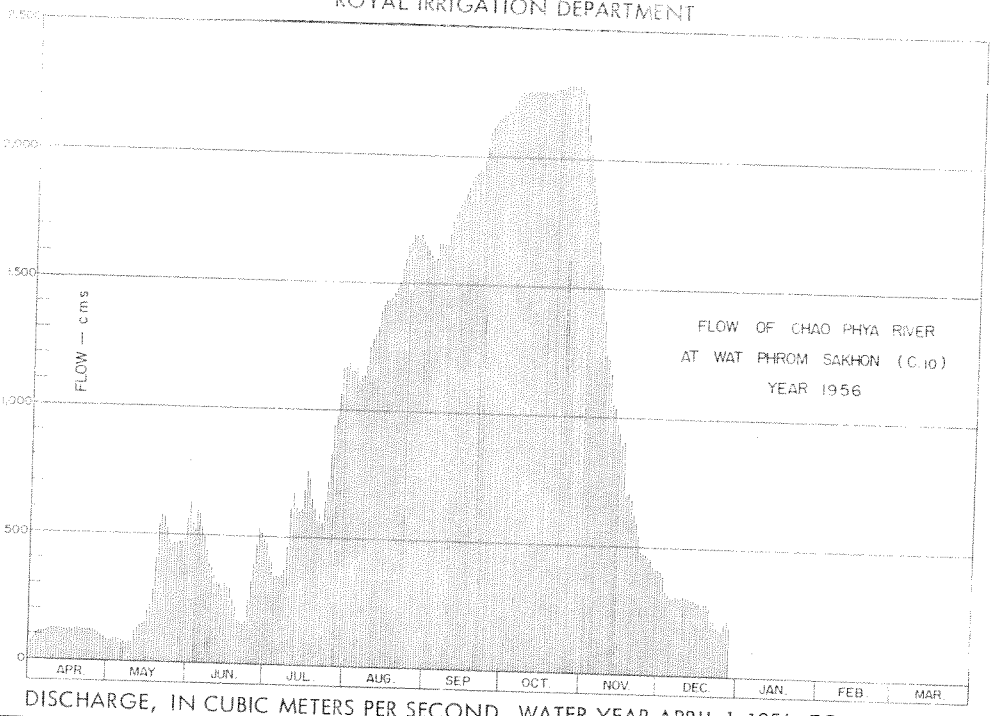
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: Ending of record for Dec. 28, 1956.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.03	4.11	6.84	6.24	8.45	9.47	10.37	10.09	5.96			
2	.22	.11	.90	.04	.45	.48	.39	9.96	.88			
3	.32	.17	.82	5.94	.47	.61	.40	.88	.58			
4	.38	.17	.72	.69	.34	.61	.41	.67	.50			
5	.38	.16	.66	.69	.40	.61	.41	.49	.48			
6	4.39	4.14	6.49	5.71	8.38	9.61	10.41	9.25	5.46			
7	.40	.09	.32	.71	.53	.68	.41	.00	.48			
8	.42	.06	.11	.78	.70	.80	.41	8.66	.47			
9	.44	.07	5.91	6.24	.77	.84	.41	.62	.50			
10	.45	.13	.81	.80	.79	.87	.41	.48	.51			
11	4.45	4.41	5.66	6.96	8.92	9.91	10.41	8.18	5.50			
12	.44	.51	.56	.78	9.02	.94	.41	.12	.47			
13	.43	.60	.51	.74	.10	.97	.41	7.97	.43			
14	.43	.64	.45	.80	.12	10.01	.41	.84	.44			
15	.43	.79	.53	7.04	.12	.04	.41	.70	.41			
16	4.43	4.97	5.49	7.26	9.15	10.06	10.41	7.58	5.36			
17	.43	5.14	.43	.18	.21	.08	.42	.08	.31			
18	.44	.39	.31	6.91	.24	.10	.42	.09	.10			
19	.45	.99	.05	.73	.27	.11	.42	.02	.13			
20	.45	6.51	4.78	.63	.40	.15	.43	6.85	.06			
21	4.45	6.63	4.73	6.70	9.49	10.20	10.43	6.70	5.05			
22	.45	.61	.71	.58	.60	.27	.43	.52	4.98			
23	.45	.44	.72	.88	.64	.29	.43	.26	.86			
24	.44	.25	5.10	7.16	.68	.31	.43	.24	.81			
25	.43	.20	.58	.51	.68	.32	.43	.21	.80			
26	4.40	6.22	5.91	7.85	9.66	10.32	10.43	6.18	4.96			
27	.33	.22	6.23	.97	.69	.33	.42	.15	5.01			
28	.28	.24	.48	8.28	.64	.34	.41	.06	4.88			
29	.24	.25	.42	.46	.60	.35	.38	.01				
30	.12	.35	.33	.48	.57	.35	.28	5.98				
31		.63		.54	.52		.18					
Mean	4.37	5.21	5.82	6.65	9.12	10.00	10.40	7.69	5.30			
Max.	4.45	6.63	6.90	8.54	9.69	10.35	10.43	10.09	5.96			
Min.	4.03	4.11	4.71	5.69	8.34	9.47	10.18	5.98	4.80			

WATER YEAR 1956 : Max. 10.43 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	75	84	651	495	1,158	1,591	2,205	1,942	406			
2	97	86	648	425	1,158	1,596	2,228	1,862	388			
3	110	91	626	401	1,166	1,654	2,240	1,798	326			
4	117	91	598	348	1,116	1,654	2,252	1,681	310			
5	117	90	582	348	1,139	1,654	2,253	1,600	306			
6	119	87	537	352	1,151	1,654	2,253	1,492	302			
7	120	82	495	352	1,190	1,686	2,253	1,382	306			
8	123	79	462	366	1,258	1,750	2,253	1,242	304			
9	125	80	394	475	1,286	1,774	2,253	1,226	310			
10	126	86	572	620	1,294	1,792	2,253	1,170	312			
11	126	121	542	666	1,348	1,816	2,253	1,055	310			
12	125	134	522	615	1,391	1,836	2,253	1,033	304			
13	124	147	312	604	1,425	1,855	2,253	980	296			
14	124	153	500	620	1,434	1,882	2,253	939	298			
15	124	160	316	690	1,434	1,905	2,253	894	292			
16	124	210	308	756	1,447	1,920	2,253	856	282			
17	124	239	246	772	1,474	1,935	2,267	702	272			
18	125	288	272	661	1,488	1,950	2,267	705	232			
19	126	413	224	615	1,501	1,958	2,267	684	237			
20	126	543	176	574	1,560	1,992	2,280	628	226			
21	126	574	167	592	1,600	2,035	2,280	593	220			
22	126	569	164	584	1,650	2,098	2,280	545	211			
23	126	525	165	640	1,668	2,116	2,280	480	190			
24	125	477	252	726	1,686	2,136	2,280	475	181			
25	124	465	326	834	1,686	2,148	2,280	467	179			
26	120	470	394	956	1,677	2,148	2,280	460	208			
27	111	470	472	980	1,690	2,159	2,267	452	217			
28	104	475	535	1,093	1,668	2,171	2,253	430	193			
29	99	477	520	1,162	1,650	2,182	2,217	417				
30	85	497	497	1,170	1,636	2,182	2,107	410				
31		574		1,194	1,614		2,018					
Total	3,523	8,837	11,665	20,674	44,673	57,229	69,585	28,600				
Mean	117	285	389	667	1,441	1,907	2,245	953				
Max.	126	574	648	1,194	1,690	2,182	2,280	1,942				
Min.	75	79	164	348	1,116	1,591	2,018	410				
Runoff – mcm.	504.387	765.517	1,007.856	1,755.994	3,855.427	4,944.586	6,012.144	2,471.040				

* WATER YEAR 1956 : Max. 2,280 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	06.00	10.43	2,280				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Sawang Arom, Sing Buri (C.11)

Location: Lat 14°- 52' - 11" N, Long 100°- 24' - 40" E, on left bank infront of Wat Sawang Arom, about 1 kilometer downstream from mouth of Khlong Lop Buri - Sing Buri, 5 kilometers from Amphoe Muang, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +3.50 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: 1942 - 47, 1949 - 50, 1955 - 56

Rating Operation:

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

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

Overbank Flow Conditions: No overbank flow.

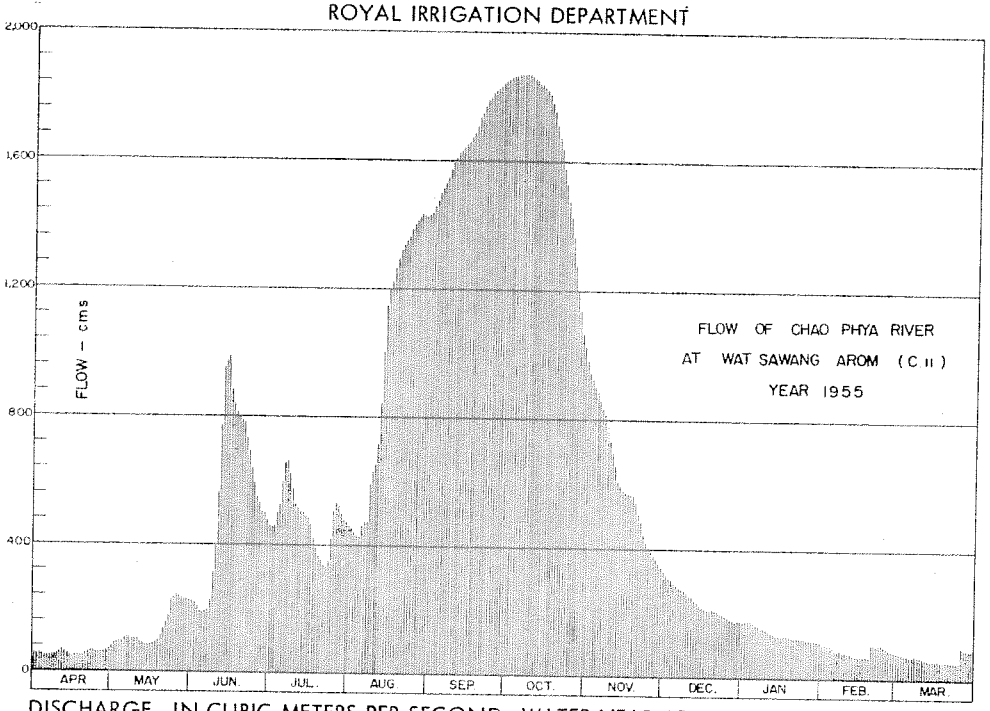
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.61	3.79	4.93	6.20	6.23	9.29	10.21	8.17	5.58	4.61	3.90	3.53
2	.60	.88	.90	.17	.18	.33	.22	.04	.52	.57	.89	.53
3	.58	.91	.81	.18	.13	.37	.22	7.97	.48	.54	.88	.52
4	.56	.92	.69	.32	.07	.42	.22	.90	.42	.50	.67	.52
5	.54	.98	.66	.47	.08	.47	.22	.82	.37	.46	.86	.52
6	3.53	4.07	4.65	6.82	6.22	9.51	10.23	7.72	5.33	4.43	3.72	3.52
7	.53	.12	.65	.04	.24	.55	.23	.62	.30	.42	.72	.52
8	.53	.10	.85	.07	.24	.59	.22	.57	.28	.40	.75	.52
9	.54	.09	5.32	6.92	.71	.65	.22	.44	.28	.39	.73	.52
10	.59	.08	.90	.73	.82	.68	.21	.28	.24	.37	.72	.52
11	3.63	4.03	6.53	6.54	6.93	9.71	10.20	7.15	5.22	4.34	3.69	3.52
12	.63	3.97	7.19	.44	7.14	.73	.20	.00	.19	.32	.67	.51
13	.61	.95	.92	.40	.59	.77	.18	6.85	.16	.30	.64	.51
14	.59	.93	8.04	.39	8.13	.79	.17	.78	.12	.28	.62	.51
15	.57	.92	.08	.34	.47	.80	.15	.74	.08	.27	.61	.51
16	3.55	3.94	7.92	6.30	8.63	9.84	10.14	6.70	5.04	4.26	3.60	3.51
17	.55	.96	.71	.18	.75	.85	.11	.67	4.99	.24	.59	.51
18	.57	.98	.57	.02	.82	.87	.07	.69	.95	.22	.57	.51
19	.55	4.05	.50	5.88	.89	.93	.02	.68	.92	.19	.57	.51
20	.58	.14	.46	.74	.96	.98	9.93	.58	.91	.15	.54	.51
21	3.62	4.24	7.46	5.67	9.04	10.01	9.86	6.45	4.87	4.13	3.54	3.51
22	.66	.45	.34	.60	.06	.05	.75	.33	.84	.11	.54	.50
23	.69	.65	.15	.58	.09	.08	.64	.18	.84	.09	.54	.50
24	.67	.86	6.98	.72	.15	.10	.52	.05	.83	.07	.54	.50
25	.66	5.02	.72	6.08	.18	.11	.41	5.98	.80	.05	.54	.50
26	3.65	5.07	6.55	6.42	9.22	10.13	9.26	5.92	4.77	4.02	3.54	4.00
27	.64	.04	.47	.53	.26	.15	.04	.86	.75	3.99	.54	3.99
28	.65	4.98	.40	.51	.28	.17	8.84	.78	.73	.97	.54	.93
29	.66	.96	.40	.40	.30	.18	.66	.71	.71	.96	.53	.93
30	.68	.96	.32	.34	.28	.21	.47	.65	.68	.95		.92
31		.96		.29	.28		.32		.65	.93		.85
Mean	3.60	4.29	6.43	6.30	7.95	9.82	9.81	6.84	5.97	4.25	3.69	3.59
Max.	3.69	5.07	8.08	7.07	9.30	10.21	10.23	8.77	5.56	4.61	3.90	4.00
Min.	3.53	3.79	4.65	5.58	6.07	9.29	8.32	5.65	4.65	3.93	3.53	3.50

WATER YEAR 1955 : Max. 10.23 m. Min. 3.51 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59	77	223	461	468	1,425	1,853	1,013	335	176	88	52
2	58	86	219	459	457	1,442	1,858	970	324	171	87	52
3	56	89	205	457	446	1,458	1,858	946	316	167	86	51
4	54	90	188	489	433	1,479	1,858	923	305	161	85	51
5	53	97	183	523	435	1,501	1,858	897	296	155	84	51
6	52	107	182	609	466	1,518	1,864	866	288	151	70	51
7	52	112	182	666	470	1,536	1,864	836	283	150	70	51
8	52	110	211	674	470	1,554	1,858	821	280	147	73	51
9	53	109	267	635	581	1,560	1,858	782	280	146	71	51
10	57	108	397	586	609	1,594	1,853	734	275	143	70	51
11	61	102	537	540	638	1,607	1,848	697	269	139	67	51
12	61	96	708	516	695	1,627	1,848	657	264	137	65	50
13	59	93	930	507	827	1,634	1,838	617	260	134	62	50
14	57	91	970	505	1,000	1,643	1,833	599	253	132	60	50
15	55	90	983	493	1,116	1,648	1,822	588	247	130	59	50
16	53	92	930	484	1,174	1,667	1,817	578	240	129	58	50
17	53	95	863	457	1,218	1,672	1,802	571	232	127	57	50
18	55	97	821	422	1,244	1,682	1,782	574	226	124	55	50
19	53	104	800	393	1,270	1,711	1,756	573	222	121	55	50
20	56	114	788	366	1,297	1,734	1,711	549	220	116	53	50
21	60	127	788	352	1,327	1,751	1,677	518	214	114	53	50
22	64	154	752	339	1,335	1,771	1,625	491	210	111	53	49
23	67	182	697	335	1,346	1,787	1,576	457	210	109	53	49
24	65	213	643	362	1,369	1,797	1,523	428	208	107	53	49
25	64	237	583	435	1,381	1,802	1,474	414	204	104	53	49
26	63	245	542	512	1,397	1,812	1,413	401	199	101	53	99
27	62	240	523	537	1,413	1,822	1,327	389	196	98	53	98
28	63	231	507	532	1,421	1,833	1,242	373	193	96	53	91
29	64	228	507	507	1,429	1,838	1,185	360	190	95	52	91
30	66	228	489	493	1,421	1,853	1,116	348	186	93		90
31		228		482	1,421	1,864	1,065		182	91		83
Total	1,747	4,272	16,638	15,123	30,574	~~51,538~~	51,862	18,972	7,605	3,975	1,851	1,811
Mean	58	138	555	488	986	~~1,662~~ 1,673	1,673	632	245	128	64	59
Max.	67	245	983	674	1,429	1,858	1,864	1,013	335	176	88	99
Min.	52	77	182	335	433	1,425	1,065	348	182	91	52	49
Runoff - mcm.	150.941	369.101	1,437.523	1,306.627	2,641.594	~~4,452.883~~	4,480.877	1,639.181	657.072	343.440	159.926	156.470

WATER YEAR 1955 : Max. 1,864 Min. ~~49~~ 43 Mean ~~563~~ 558 Annual Runoff ~~17,795.635~~ 17,643.571 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	06.00	10.23	1,864				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Sawang Arom, Sing Buri (C.11)

Location: Lat 14°- 52' - 11" N, Long 100°- 24' - 40" E, on left bank infront of Wat Sawang Arom, about 1 kilometers downstream from mouth of Khlong Lop Buri - Sing Buri, 5 kilometers from Amphoe Muang, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +3.50 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: 1942 - 47, 1949 - 50, 1955 - 56

Rating Operation:

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

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. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

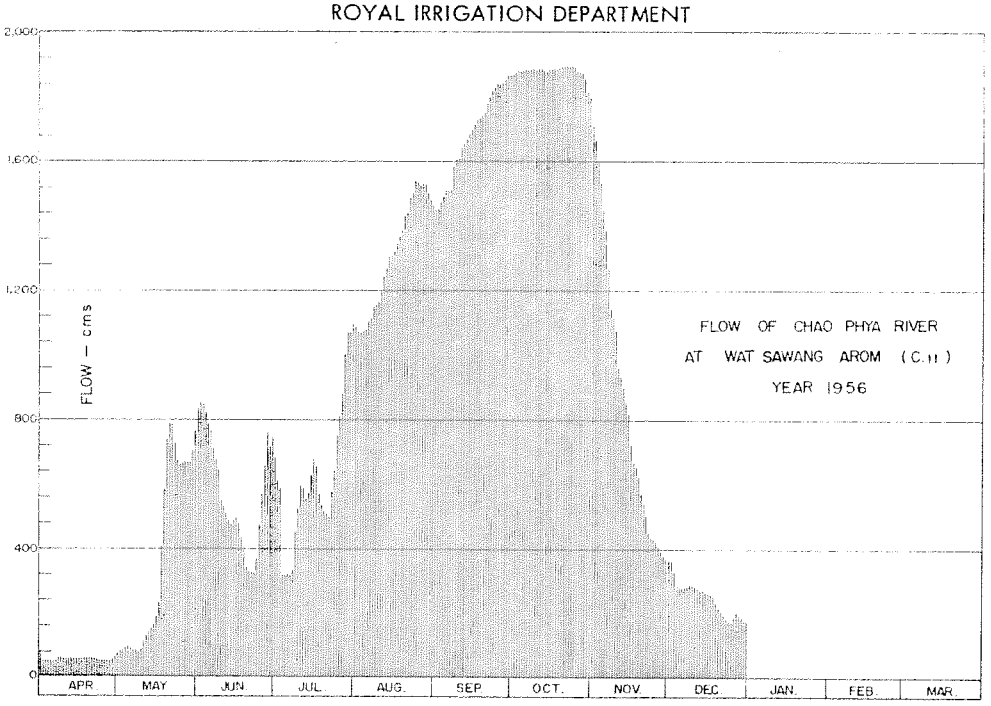
Remarks: Ending of records for Jan. 1, 1957.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.81	3.76	7.63	7.09	8.38	9.55	10.24	9.93	5.73			
2	.56	.88	.67	6.84	.34	.37	.25	.83	.72			
3	.55	.94	.66	.73	.35	.41	.26	.66	.44			
4	.55	.96	.58	5.51	.35	.46	.26	.52	.52			
5	.54	.92	.47	.50	.39	.49	.26	.37	.29			
6	3.55	3.91	7.37	5.51	8.45	9.49	10.27	9.18	5.27			
7	.56	.90	.20	.51	.48	.52	.27	8.88	.31			
8	.61	.87	.09	.63	.57	.67	.27	.53	.30			
9	.61	.85	6.95	6.13	.60	.70	.27	.48	.32			
10	.61	.94	.65	.53	.62	.72	.27	.34	.35			
11	3.60	4.19	6.51	6.78	8.75	9.79	10.27	8.00	5.30			
12	.59	.31	.42	.74	.84	.82	.27	7.91	.27			
13	.60	.39	.32	.61	.92	.85	.26	.82	.21			
14	.60	.47	.26	.69	.97	.89	.26	.64	.24			
15	.60	.58	.34	.90	9.00	.95	.27	.55	.16			
16	3.60	4.73	6.36	7.09	9.05	9.95	10.27	7.23	5.16			
17	.60	5.05	.28	.00	.11	.97	.27	.02	.15			
18	.61	.96	.13	6.74	.16	.98	.27	6.98	.09			
19	.62	6.73	5.93	.54	.22	.99	.28	.87	4.98			
20	.63	7.30	.63	.45	.31	10.02	.28	.67	.85			
21	3.62	7.47	5.56	6.41	9.37	10.07	10.29	6.54	4.82			
22	.62	.46	.52	.33	.45	.12	.29	.36	.74			
23	.59	.26	.52	.70	.47	.15	.29	.14	.65			
24	.57	.08	.83	.97	.56	.17	.29	.06	.57			
25	.57	.03	6.27	7.34	.54	.18	.28	.04	.56			
26	3.56	7.05	6.69	7.66	9.53	10.19	10.26	6.00	4.77			
27	.54	.05	7.03	.85	.54	.20	.25	5.96	.80			
28	.55	.06	.58	8.16	.53	.21	.25	.86	.70			
29	.62	.06	.24	.34	.48	.23	.21	.80	.67			
30	.67	.17	.32	.35	.44	.24	.15	.75	.65			
31		.43		.40	.40		.10		.59			
Mean	3.60	5.48	6.66	6.74	9.05	9.87	10.26	7.53	5.06			
Max.	3.81	7.47	7.67	8.40	9.56	10.24	10.29	9.93	5.73			
Min.	3.54	3.76	5.52	5.50	8.34	9.35	10.10	5.75	4.59			

WATER YEAR 1956 : Max. 10.29 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	79	74	839	679	1,076	1,450	1,869	1,711	354			
2	54	86	851	614	1,072	1,458	1,874	1,662	362			
3	53	92	848	586	1,075	1,474	1,879	1,585	309			
4	53	95	824	522	1,075	1,496	1,879	1,523	287			
5	53	90	791	520	1,089	1,510	1,879	1,458	281			
6	53	89	761	522	1,109	1,510	1,884	1,381	278			
7	54	88	711	522	1,120	1,523	1,884	1,267	285			
8	59	85	679	545	1,152	1,589	1,884	1,138	283			
9	59	83	643	446	1,163	1,603	1,884	1,120	287			
10	59	92	566	537	1,170	1,612	1,884	1,072	288			
11	59	121	532	599	1,218	1,643	1,884	956	283			
12	57	135	512	588	1,242	1,658	1,884	926	278			
13	58	146	489	556	1,282	1,672	1,879	897	268			
14	58	157	482	526	1,301	1,691	1,879	842	275			
15	58	172	493	630	1,312	1,711	1,884	815	260			
16	58	193	498	629	1,331	1,721	1,884	720	260			
17	58	242	499	652	1,354	1,731	1,884	660	258			
18	59	410	446	588	1,373	1,736	1,884	652	248			
19	60	586	405	540	1,397	1,741	1,890	622	231			
20	61	740	345	518	1,434	1,756	1,890	571	211			
21	60	791	331	509	1,458	1,782	1,895	540	207			
22	60	788	324	502	1,492	1,807	1,895	498	195			
23	57	728	324	578	1,501	1,822	1,895	448	182			
24	55	677	383	649	1,540	1,833	1,895	431	171			
25	55	662	427	752	1,552	1,838	1,890	426	169			
26	54	668	526	848	1,527	1,843	1,879	418	199			
27	53	668	665	903	1,522	1,848	1,874	405	204			
28	52	691	764	1,010	1,527	1,855	1,874	389	189			
29	60	691	725	1,072	1,505	1,864	1,853	377	185			
30	69	703	746	1,075	1,488	1,869	1,822	367	179			
31		779		1,092	1,479		1,797		174			
Total	1,765	11,583	12,503	19,416	40,936	50,646	58,211	25,866	7,648			
Mean	58	374	583	626	1,320	1,688	1,878	862	247			
Max.	79	791	851	1,092	1,540	1,869	1,895	1,711	364			
Min.	53	74	324	520	1,072	1,450	1,797	367	169			
Runoff - mcm.	104.731	1,000.972	1,512.259	1,677.870	3,535.229	4,375.555	5,029.430	2,234.822	660.787			

WATER YEAR 1956 : Max. 1,895 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 21	06.00	10.29	1,895				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat 15°- 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: 120,695 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 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: Rather unstable, shifting adjustment is included for flow computation.

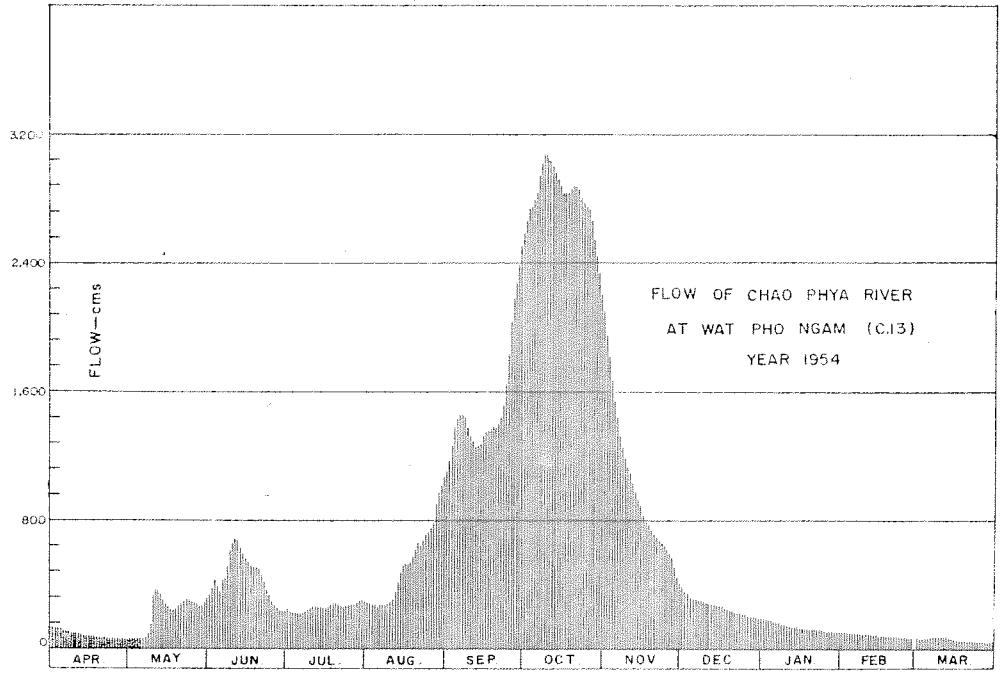
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.97	7.44	9.08	8.61	8.86	11.70	14.81	13.85	9.28	8.31	7.79	7.51
2	.97	.44	.25	.59	.84	.83	.92	.55	.18	.29	.79	.50
3	.95	.45	.49	.56	.79	12.08	15.00	.25	.09	.26	.78	.50
4	.92	.45	.64	.53	.74	.34	.08	12.94	.03	.24	.77	.51
5	.87	.43	.53	.53	.72	.48	.17	.66	8.98	.22	.76	.52
6	7.83	7.43	9.46	8.53	8.75	12.53	15.22	12.41	8.95	8.20	7.75	7.52
7	.79	.47	.56	.54	.75	.54	.27	.19	.93	.17	.74	.52
8	.76	.55	.85	.56	.75	.51	.31	.00	.90	.14	.73	.52
9	.73	8.18	10.17	.61	.78	.38	.33	11.84	.87	.12	.72	.53
10	.70	.98	.37	.68	.84	.23	.33	.69	.84	.09	.71	.53
11	7.67	9.19	10.40	8.71	8.95	12.11	15.32	11.55	8.82	8.07	7.70	7.54
12	.65	.14	.32	.73	9.15	.05	.30	.41	.81	.05	.69	.53
13	.62	.05	.18	.72	.42	.06	.28	.28	.80	.02	.66	.52
14	.61	8.92	.08	.70	.64	.12	.26	.14	.78	.00	.65	.43
15	.58	.78	9.98	.67	.79	.22	.24	10.99	.74	7.99	.63	.40
16	7.56	8.69	9.86	8.67	9.87	12.30	15.22	10.86	8.70	7.98	7.62	7.38
17	.54	.61	.79	.71	.86	.33	.22	.75	.67	.96	.60	.37
18	.53	.59	.79	.80	.91	.34	.22	.66	.64	.95	.59	.37
19	.51	.68	.76	.83	10.05	.36	.23	.57	.61	.94	.58	.36
20	.50	.77	.70	.81	.19	.39	.24	.49	.58	.93	.57	.34
21	7.52	8.86	9.60	8.77	10.32	12.45	15.24	10.41	8.55	7.92	7.55	7.33
22	.50	.92	.43	.73	.48	.56	.22	.35	.53	.90	.54	.32
23	.48	.93	.22	.72	.63	.79	.19	.30	.51	.89	.54	.31
24	.46	.90	.03	.76	.75	13.15	.14	.23	.49	.87	.54	.30
25	.43	.89	8.88	.77	.83	.56	.06	.16	.47	.86	.54	.29
26	7.42	8.83	8.76	8.78	10.90	13.90	14.99	10.07	8.44	7.85	7.53	7.29
27	.42	.74	.67	.78	.94	14.17	.87	9.96	.42	.84	.52	.29
28	.42	.69	.60	.82	11.08	.39	.73	.77	.39	.83	.51	.30
29	.42	.73	.57	.90	.27	.56	.58	.56	.37	.82		.33
30	.43	.85	.61	.92	.39	.71	.39	.40	.35	.81		.36
31		.98		.90	.57		.14		.33	.80		.35
Mean	7.62	8.47	9.52	8.71	9.83	11.89	15.08	11.21	8.71	8.01	7.65	7.41
Max.	7.97	9.19	10.40	8.92	11.57	14.71	15.33	13.85	9.28	8.31	7.79	7.54
Min.	7.42	7.43	8.57	8.53	8.72	11.70	14.14	9.40	8.33	7.80	7.51	7.29

WATER YEAR 1954 : Max. 15.33 m. Min. 7.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	124	56	330	234	282	1,118	2,582	2,040	378	179	99	64
2	124	56	371	230	278	1,166	2,667	1,891	354	175	99	63
3	121	57	429	224	268	1,261	2,735	1,751	333	170	97	63
4	117	57	467	219	259	1,363	2,747	1,614	319	167	96	64
5	110	55	439	219	255	1,420	2,785	1,495	308	163	95	65
6	104	55	422	219	260	1,441	2,840	1,391	301	160	93	65
7	99	60	447	221	260	1,445	2,940	1,304	297	155	92	65
8	95	69	520	224	260	1,432	3,020	1,231	290	150	91	65
9	91	157	611	234	266	1,379	3,060	1,170	284	147	90	67
10	87	308	672	247	278	1,320	3,060	1,114	278	142	88	67
11	83	357	681	253	301	1,273	3,040	1,064	274	139	87	68
12	81	345	656	257	347	1,250	3,000	1,014	272	136	86	67
13	77	323	614	255	412	1,254	2,960	968	270	132	82	65
14	76	294	585	251	467	1,277	2,920	920	266	129	81	55
15	73	266	556	245	504	1,316	2,880	869	259	127	79	52
16	70	249	523	245	526	1,347	2,840	826	251	126	77	50
17	68	234	504	253	523	1,359	2,840	791	245	123	75	49
18	67	230	504	270	537	1,363	2,840	762	240	121	74	49
19	64	247	497	276	576	1,371	2,860	734	234	120	73	48
20	63	264	482	272	617	1,373	2,880	709	228	118	71	46
21	65	282	457	264	656	1,407	2,880	684	222	117	69	45
22	63	294	414	257	706	1,453	2,840	665	219	114	68	44
23	61	297	364	255	753	1,550	2,795	650	215	113	68	43
24	59	290	319	262	791	1,706	2,770	629	211	110	68	42
25	55	288	286	264	817	1,896	2,744	608	208	108	68	41
26	54	276	264	266	839	2,065	2,726	582	202	107	67	41
27	54	259	245	266	852	2,200	2,627	551	199	106	65	41
28	54	249	232	274	899	2,315	2,526	499	193	104	64	42
29	54	257	226	290	964	2,413	2,425	447	190	103		45
30	55	280	234	294	1,006	2,512	2,315	407	186	101		48
31		308		290	1,071		2,185		182	100		47
Total	2,368	6,819	13,351	7,830	16,830	46,045	86,329	29,380	7,908	4,062	2,262	1,676
Mean	78.9	220	445	252	543	1,535	2,785	979	255	131	80.8	54.1
Max.	124	357	681	294	1,071	2,512	3,060	2,040	378	179	99	68
Min.	54	55	226	219	255	1,250	2,185	407	182	100	64	41
Runoff - mcm.	204.595	589.162	1,153.526	676.512	1,454.112	3,978.288	7,458.826	2,538.432	683.251	350.957	195.437	144.806

WATER YEAR 1954 : Max. 3,060 Min. 41 Mean 616 Annual Runoff 19,427.904 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	06.00	15.33	3,060				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat 15° - 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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

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

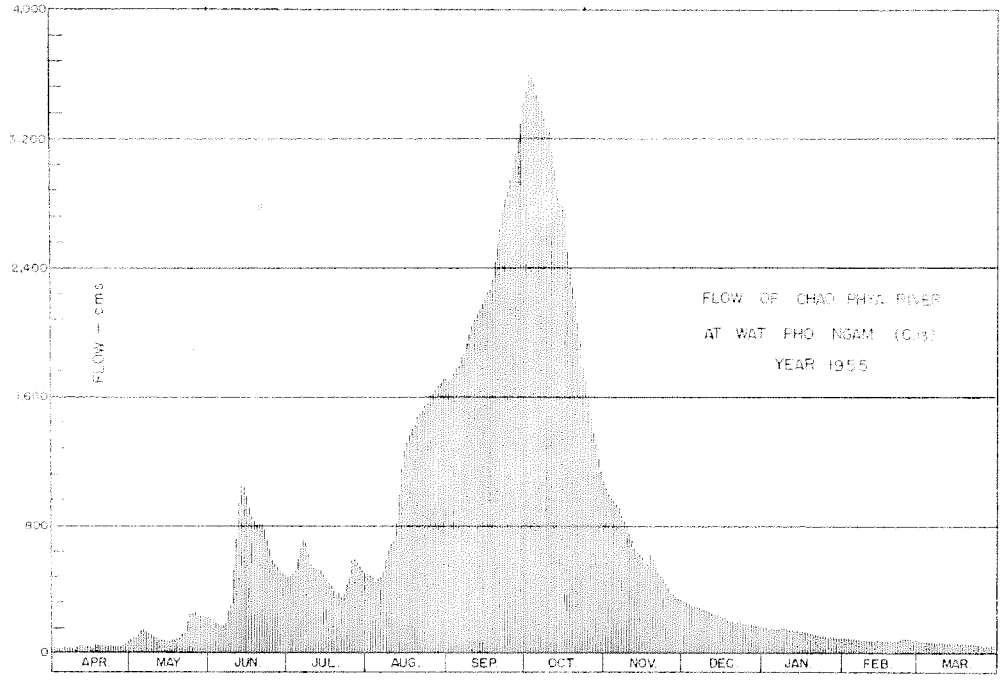
Remarks: Estimated data for period Mar. 24 - 25.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.32	7.74	8.47	9.70	9.73	13.30	15.44	11.55	9.16	8.21	7.75	7.57
2	.31	.81	.41	.71	.63	.35	.47	.44	.11	.19	.74	.55
3	.29	.80	.34	.76	.64	.44	.47	.37	.06	.16	.73	.53
4	.28	.83	.28	.89	.62	.50	.47	.33	8.98	.15	.72	.51
5	.28	.94	.26	10.13	.66	.57	.45	.29	.94	.15	.71	.49
6	7.27	7.95	8.24	10.44	9.72	13.63	15.44	11.22	8.92	8.14	7.70	7.49
7	.27	.95	.31	.58	.85	.70	.43	.07	.89	.13	.69	.49
8	.27	.90	.69	.49	10.11	.77	.42	10.97	.84	.11	.68	.48
9	.33	.83	9.19	.28	.35	.89	.41	.84	.82	.07	.66	.47
10	.43	.77	.79	.10	.45	.96	.38	.72	.78	.04	.67	.45
11	7.45	7.73	10.50	9.95	10.55	14.03	15.35	10.53	8.74	8.02	7.66	7.43
12	.45	.69	11.23	.86	.86	.07	.29	.36	.69	.01	.65	.40
13	.45	.68	.53	.85	11.44	.14	.23	.27	.65	7.99	.65	.37
14	.44	.65	.55	.81	.93	.18	.16	.22	.63	.97	.65	.36
15	.41	.68	.38	.71	12.19	.22	.08	.20	.61	.94	.65	.34
16	7.39	7.71	11.22	9.58	12.36	14.29	14.98	10.17	8.59	7.92	7.64	7.33
17	.37	.71	.07	.46	.47	.34	.86	.17	.57	.92	.63	.32
18	.45	.77	10.93	.37	.56	.38	.72	.22	.55	.91	.63	.31
19	.52	.84	.91	.27	.65	.53	.55	.17	.53	.90	.64	.32
20	.51	.90	.90	.14	.76	.65	.36	9.98	.50	.89	.64	.33
21	7.47	8.05	10.87	9.13	12.82	14.75	14.15	9.80	8.40	7.88	7.65	7.34
22	.45	.27	.74	.09	.90	.84	13.87	.73	.46	.87	.68	.33
23	.45	.44	.54	.15	.97	.92	.65	.63	.43	.85	.70	.31
24	.41	.63	.31	.42	13.04	.98	.38	.56	.40	.83	.72	.26
25	.40	.69	.12	.79	.11	15.07	.13	.50	.39	.81	.72	.21
26	7.39	8.67	9.99	9.99	13.15	15.14	12.84	9.44	8.37	7.79	7.70	7.16
27	.38	.61	.95	10.04	.20	.23	.61	.38	.33	.79	.69	.19
28	.43	.56	.86	9.56	.25	.30	.34	.33	.31	.78	.64	.19
29	.51	.54	.79	.91	.30	.37	.09	.27	.28	.77	.61	.18
30	.46	.53	.74	.81	.35	.42	11.86	.22	.26	.76		.18
31		.54		.73	.34		.71		.24	.76		.77
Mean	7.39	8.04	9.97	9.78	11.71	14.33	14.37	10.30	8.63	7.96	7.67	7.38
Max.	7.52	8.69	11.55	10.58	13.35	15.42	15.47	11.55	9.16	8.21	7.75	7.77
Min.	7.27	7.65	8.24	9.09	9.62	13.30	11.71	9.22	8.24	7.76	7.61	7.16

WATER YEAR 1955 : Max. 15.47 m. Min. 7.16 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	47	96	223	485	505	1,695	3,496	1,033	328	166	99	79
2	46	108	214	488	493	1,715	3,600	994	320	163	98	76
3	45	109	201	500	480	1,756	3,574	961	312	160	96	74
4	44	115	190	533	455	1,783	3,548	942	298	159	94	72
5	44	139	187	597	480	1,814	3,470	927	292	159	92	71
6	43	151	183	683	493	1,841	3,418	902	290	159	91	71
7	41	148	198	725	525	1,870	3,366	857	286	157	88	71
8	39	135	280	698	594	1,925	3,310	827	278	160	85	70
9	43	124	383	633	662	2,000	3,265	791	276	161	84	69
10	51	113	528	563	692	2,040	3,235	755	270	157	83	68
11	53	105	725	552	713	2,083	3,115	698	262	153	82	66
12	53	96	946	530	812	2,111	2,998	651	254	150	82	63
13	53	92	1,042	530	1,001	2,155	2,889	625	246	147	82	60
14	52	85	1,042	525	1,173	2,184	2,790	611	248	144	82	60
15	48	87	979	500	1,265	2,214	2,690	605	236	138	83	59
16	46	88	912	470	1,325	2,266	2,590	560	232	135	82	57
17	44	87	863	440	1,368	2,306	2,493	560	226	135	82	57
18	52	94	818	420	1,400	2,341	2,397	616	221	132	82	56
19	59	102	809	395	1,432	2,455	2,285	602	217	129	83	57
20	57	109	803	369	1,476	2,554	2,178	549	210	127	83	58
21	54	127	806	374	1,496	2,660	2,067	505	192	124	85	59
22	53	168	779	364	1,525	2,750	1,930	488	201	122	89	58
23	54	207	719	376	1,550	2,845	1,828	463	196	117	92	57
24	51	252	651	440	1,580	2,878	1,711	448	189	115	96	52 *
25	51	264	597	505	1,610	2,956	1,610	413	190	112	96	47 *
26	51	260	560	583	1,627	3,012	1,484	381	190	108	95	42
27	51	248	549	597	1,649	3,115	1,404	369	183	108	94	45
28	57	240	525	572	1,670	3,190	1,306	359	180	106	87	45
29	66	236	508	558	1,693	3,295	1,217	348	176	103	83	44
30	82	234	495	528	1,715	3,420	1,136	339	173	103		45
31		236		503	1,711		1,084		171	101		115
Total	1,530	4,655	17,715	16,039	35,170	71,227	77,484	19,179	7,343	4,210	2,550	1,923
Mean	51.0	150	590	517	1,134	2,374	2,499	639	237	136	87.9	62.0
Max.	82	264	1,042	725	1,715	3,420	3,600	1,033	328	166	99	115
Min.	39	85	183	364	455	1,693	1,084	339	171	101	82	42
Runoff - mcm.	132.192	402.192	1,530.576	1,385.770	3,038.688	6,154.013	6,692.026	1,657.066	634.435	363.744	220.320	166.147

WATER YEAR 1955 : Max. 3,600 Min. 39 Mean 708 Annual Runoff 22,377.168 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	12.00	15.47	3,600				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHAO PHYA RIVER BASIN

Chao Phya River at Wat Pho Ngam, Chai Nat (C.13)

Location: Lat 15° – 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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +7.00 m. (M.S.L.)

Bench Mark:

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

Overbank Flow Conditions: No overbank flow.

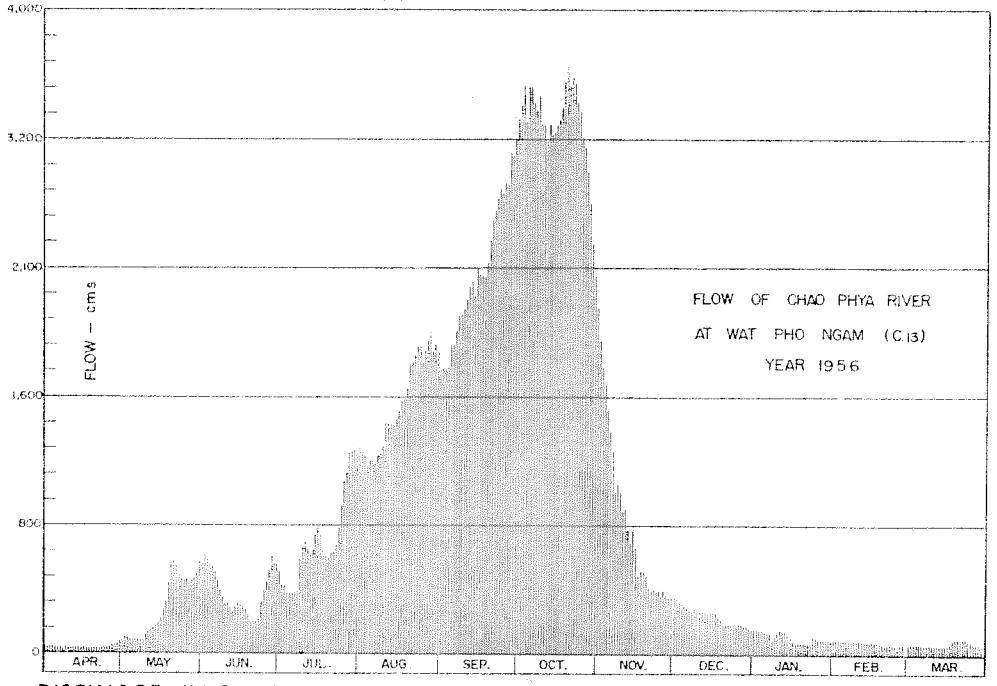
General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.28	7.59	10.18	9.57	11.98	13.31	15.36	14.10	9.23	8.19	7.61	7.34
2	.28	.68	.20	.28	.93	.35	.41	13.80	.20	.18	.64	.36
3	.20	.70	.12	.28	.97	.42	.45	.50	.13	.16	.67	.36
4	.19	.63	.03	.04	.94	.54	.47	.22	.05	.13	.62	.37
5	.19	.62	9.92	.08	.96	.53	.48	.03	8.99	.10	.62	.38
6	7.17	7.57	9.81	9.05	11.86	13.54	15.48	12.69	8.95	8.08	7.63	7.37
7	.15	.54	.63	.09	12.05	.67	.48	.10	.91	.05	.63	.37
8	.14	.53	.36	.17	.21	.85	.46	11.56	.88	7.70	.63	.37
9	.14	.50	.14	.98	.25	.92	.46	.75	.85	.85	.62	.35
10	.13	.77	8.95	10.26	.29	.97	.44	.54	.83	8.10	.62	.35
11	7.12	7.90	8.95	10.32	12.48	14.09	15.41	11.18	8.82	8.10	7.61	7.32
12	.12	.97	.89	.19	.52	.16	.38	.22	.79	.09	.60	.30
13	.12	8.04	.69	.08	.58	.22	.36	.18	.77	.07	.57	.28
14	.12	.13	.86	.23	.61	.31	.34	10.80	.76	7.85	.51	.28
15	.13	.27	.95	.54	.66	.39	.35	.80	.75	.78	.51	.27
16	7.13	8.45	8.87	10.68	12.73	14.42	15.40	10.62	8.73	7.63	7.50	7.31
17	.12	.66	.77	.50	.78	.46	.43	9.93	.68	.38	.49	.51
18	.12	.95	.69	.16	.90	.49	.50	10.03	.60	.54	.48	.60
19	.12	9.41	.41	.04	.99	.54	.56	9.95	.52	.45	.47	.61
20	.12	.97	.20	9.98	13.23	.61	.61	.78	.41	.44	.38	.64
21	7.11	10.02	8.21	10.10	13.36	14.74	15.61	9.61	8.33	7.43	7.18	7.66
22	.11	9.91	.16	.08	.45	.91	.61	.63	.29	.44	.40	.68
23	.11	.69	.19	.32	.49	.99	.58	.48	.26	.50	.42	.67
24	.12	.59	.79	.65	.59	15.01	.54	.44	.25	.76	.31	.63
25	.14	.55	9.05	11.06	.55	.06	.47	.39	.24	.74	.30	.52
26	7.19	9.61	9.41	11.45	13.58	15.11	15.29	9.36	8.40	7.70	7.32	7.37
27	.29	.58	.60	.60	.63	.15	.26	.33	.35	.68	.33	.34
28	.33	.59	.96	.91	.57	.21	.15	.29	.28	.65	.34	.30
29	.35	.65	.77	.94	.46	.24	14.98	.26	.24	.63		.27
30	.47	.78	.90	.95	.40	.31	.75	.24	.22	.62		.22
31		10.07		.92	.38		.40		.20	.61		.19
Mean	7.18	8.67	9.19	10.31	12.79	14.35	15.37	10.89	8.64	7.79	7.50	7.41
Max.	7.47	10.07	10.20	11.95	13.63	15.31	15.61	14.10	9.23	8.19	7.67	7.68
Min.	7.11	7.50	8.16	9.04	11.86	13.31	14.40	9.24	8.20	7.38	7.30	7.19

WATER YEAR 1956 : Max. 15.61 m. Min. 7.11 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	47	92	603	502	1,290	1,760	3,324	2,128	350	153	82	54
2	47	105	608	428	1,258	1,775	3,408	1,940	343	151	86	56
3	41	99	614	428	1,227	1,805	3,520	1,745	312	150	89	56
4	41	92	561	370	1,170	1,920	3,310	1,659	312	145	83	57
5	41	92	532	380	1,204	1,920	3,520	1,515	296	142	83	58
6	39	88	505	370	1,193	1,920	3,520	1,378	284	139	85	57
7	39	86	460	380	1,185	2,011	3,422	1,254	271	136	85	57
8	38	86	396	396	1,239	2,099	3,380	1,011	273	88	85	57
9	38	83	345	597	1,250	2,104	3,467	1,069	280	109	83	55
10	38	120	306	676	1,302	2,146	3,283	1,000	273	145	83	54
11	37	142	306	691	1,438	2,206	3,283	881	263	147	82	52
12	38	154	294	650	1,430	2,273	3,188	902	265	145	81	50
13	38	167	256	617	1,430	2,311	3,283	760	261	144	78	48
14	38	181	290	656	1,430	2,224	3,229	688	254	112	71	48
15	39	203	312	748	1,438	2,397	3,242	733	258	103	71	47
16	39	234	304	799	1,506	2,355	3,283	652	261	85	70	51
17	39	280	288	745	1,578	2,349	3,338	480	248	58	69	71
18	39	328	277	648	1,591	2,342	3,394	512	230	74	68	81
19	39	433	229	611	1,655	2,439	3,555	502	212	65	67	82
20	39	572	195	600	1,800	2,587	3,650	485	188	64	58	86
21	39	583	203	634	1,810	2,709	3,520	414	181	63	58	88
22	39	553	198	628	1,870	2,754	3,570	400	183	64	60	91
23	39	495	207	700	1,905	2,845	3,537	405	178	70	62	89
24	40	470	320	799	1,910	2,887	3,422	391	178	101	51	85
25	43	457	380	937	1,810	2,856	3,352	392	165	98	50	72
26	47	470	467	1,076	1,895	2,995	3,188	377	191	93	52	57
27	57	460	515	1,136	1,956	2,995	3,137	392	189	91	53	54
28	62	460	608	1,254	2,000	3,112	2,995	361	171	87	54	50
29	64	472	556	1,270	1,885	3,100	2,763	350	170	85		47
30	78	502	561	1,274	1,920	3,215	2,612	354	156	85		43
31		575		1,262	1,875		2,330		153	82		40
Total	1,302	9,134	11,696	22,262	48,450	72,411	102,025	25,130	7,349	3,274	1,999	1,893
Mean	43.4	295	390	718	1,563	2,414	3,291	838	237	106	71.4	61.1
Max.	78	583	614	1,274	2,000	3,215	3,650	2,128	350	153	82	91
Min.	37	83	195	370	1,170	1,760	2,330	350	153	82	50	40
Runoff - MCM.	112.493	789.178	1,010.534	1,923.437	4,186.080	6,256.310	8,814.960	2,171.232	634.954	282.874	172.714	163.555

WATER YEAR 1956 : Max. 3,650 Min. 37 Mean 841 Annual Runoff 26,518.320 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 20	12.00	15.61	3,650				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m. (M.S.L.)

Bench Mark:

Location: On right bank infront of 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: Rather unstable, 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 measurements made during 1955. Flow regulated by Chao Phya Diversion Dam at Chai Nat. No adjustment made for virgin flow.

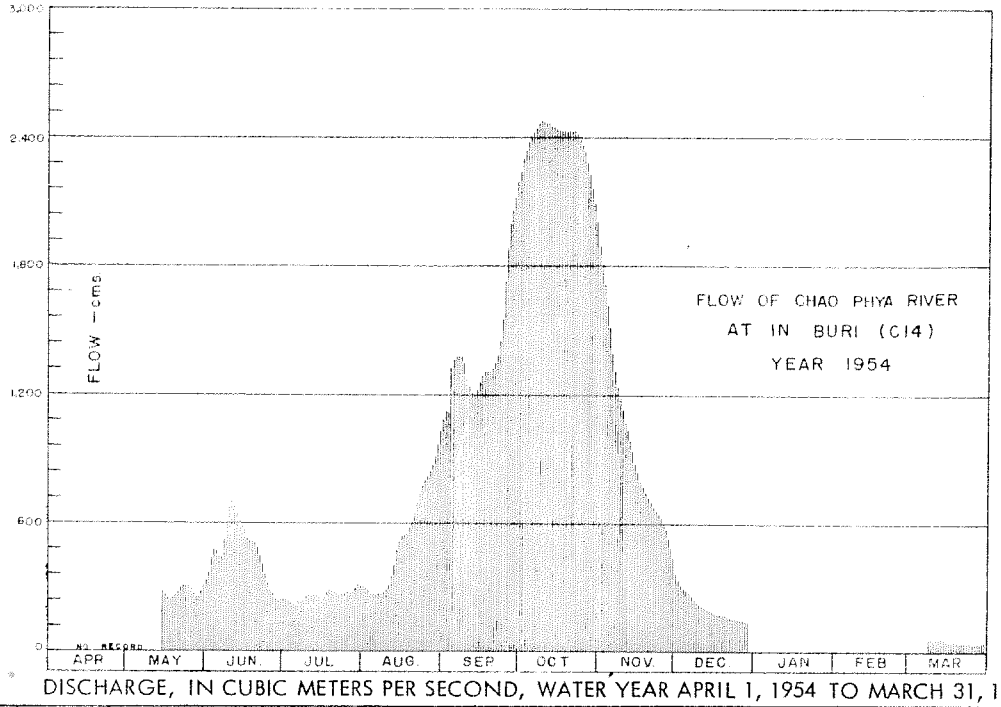
Remarks: No gage - height record for periods Apr. 1 - May 14, Dec. 30 - Mar.7

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			7.11	6.68	6.94	9.65	12.02	11.43	7.14			
2			.27	.66	.94	.77	.08	.25	.04			
3			.51	.63	.89	.77	.11	.06	6.97			
4			.67	.61	.81	10.25	.16	10.84	.90			
5			.62	.58	.79	.37	.18	.59	.85			
6			7.53	6.58	6.82	10.41	12.20	10.37	6.79			
7			.53	.60	.82	.42	.22	.19	.72			
8			.82	.60	.83	.40	.24	.02	.65			5.65
9			8.14	.66	.84	.33	.25	9.87	.59			.64
10			.38	.73	.90	.15	.24	.74	.54			.63
11			8.47	6.77	6.99	10.04	12.24	9.60	6.50			5.65
12			.40	.78	7.15	9.98	.24	.48	.47			.69
13			.26	.79	.40	.97	.22	.36	.43			.63
14			.13	.76	.65	10.02	.22	.19	.40			.58
15		6.87	.08	.74	.80	.11	.21	.04	.38			.55
16		6.77	7.95	6.73	7.91	10.19	12.20	8.90	6.34			5.54
17		.68	.83	.76	.91	.24	.20	.77	.32			.53
18		.65	.82	.84	.93	.24	.20	.68	.30			.54
19		.72	.82	.89	.94	.25	.20	.59	.28			.53
20		.81	.78	.87	8.17	.27	.20	.50	.26			.52
21		6.88	7.68	6.84	8.28	10.32	12.20	8.43	6.24			5.49
22		.96	.53	.82	.45	.43	.20	.36	.22			.47
23		.99	.33	.79	.60	.60	.19	.31	.20			.47
24		.96	.15	.82	.73	.87	.15	.25	.19			.46
25		.95	6.99	.82	.81	11.20	.13	.18	.17			.45
26		6.93	6.87	6.84	8.86	11.47	12.09	8.09	6.16			5.44
27		.82	.78	.85	.94	.67	.04	.00	.14			.43
28		.76	.70	.87	9.04	.80	11.97	7.84	.12			.42
29		.76	.64	.94	.17	.88	.87	.65	.10			.49
30		.88	.67	.99	.33	.96	.78	.48				.52
31		.98		.98	.52		.62					.52
Mean			7.58	6.77	7.90	10.50	12.17	9.20				
Max.			8.47	6.99	9.52	11.96	12.25	11.43				
Min.			6.64	6.58	6.79	9.65	11.62	7.48				

WATER YEAR 1954 : Max. 12.25 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			340	246	301	1,083	2,254	1,867	347			
2			378	242	301	1,125	2,311	1,768	324			
3			438	236	290	1,125	2,340	1,671	308			
4			478	232	272	1,310	2,387	1,566	292			
5			485	226	268	1,358	2,406	1,451	281			
6			443	226	274	1,374	2,425	1,358	268			
7			443	230	274	1,378	2,445	1,286	254			
8			517	230	271	1,370	2,465	1,218	240			71
9			605	242	279	1,342	2,475	1,161	228			69
10			674	256	292	1,270	2,465	1,114	218			68
11			701	264	313	1,226	2,465	1,065	210			71
12			680	266	350	1,202	2,465	1,023	204			76
13			639	268	413	1,199	2,445	981	196			68
14			602	262	473	1,218	2,445	922	190			62
#5		285	588	258	512	1,254	2,435	873	186			58
16		264	553	256	542	1,286	2,425	830	179			57
17		246	520	262	542	1,306	2,425	791	176			56
18		240	517	279	547	1,306	2,425	764	172			57
19		254	517	290	577	1,310	2,425	737	169			56
20		272	507	285	614	1,318	2,425	710	165			54
21		285	480	279	644	1,338	2,425	689	162			51
22		306	443	274	695	1,383	2,425	668	158			48
23		313	393	268	740	1,455	2,416	653	155			48
24		306	350	274	779	1,580	2,378	636	153			47
25		304	313	274	803	1,740	2,359	616	150			46
26		299	285	279	818	1,889	2,321	591	148			45
27		274	266	281	842	2,007	2,273	566	145			44
28		262	250	285	873	2,090	2,213	523	141			42
29		262	238	301	915	2,146	2,139	473	138			51
30		288	244	313	971	2,205	2,077	430				54
31		310		310	1,037		1,977					54
Total			13,867	8,194	16,822	43,193	73,356	29,001				
Mean			462	264	543	1,440	2,366	966				
Max.			701	313	1,037	2,205	2,475	1,867				
Min.			238	226	268	1,083	1,977	430				
Runoff - MCM.			1,198.109	707.962	1,453.421	3,731.875	6,337.958	2,501.686				

WATER YEAR 1954 : Max. 2,475 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 9	06.00	12.25	2,475				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m. (M.S.L.)

Bench Mark: B.M. - C.14

Location: On right bank infront of 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: Rather unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: Overbank flow was observed at elev. +12.265 m. (M.S.L.) but not included for flow computation.

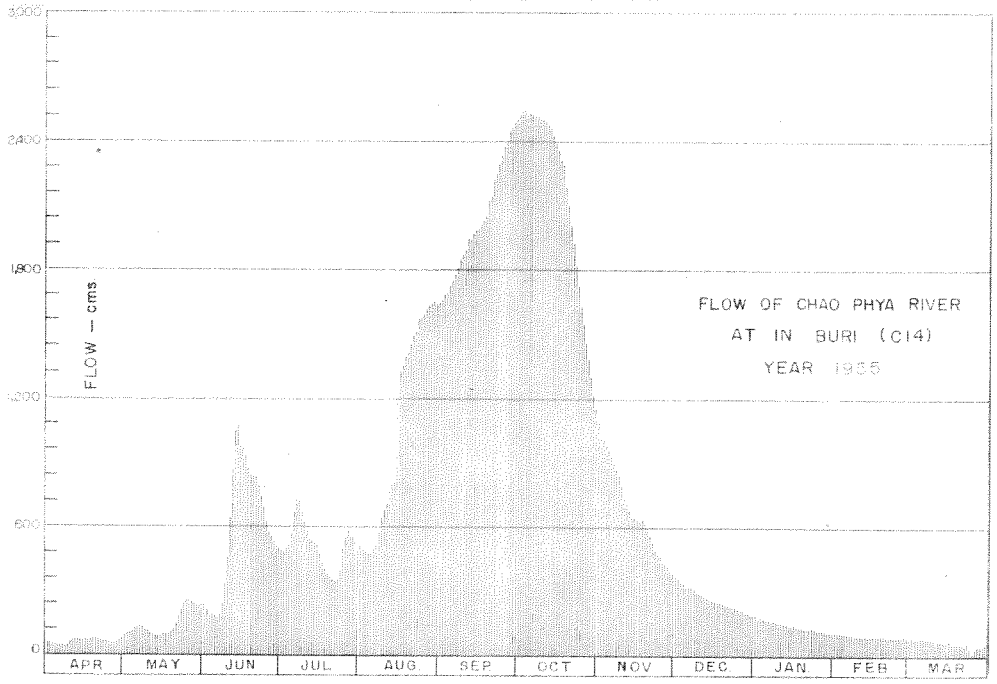
General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1955. Flow regulated by Chao Phya Diversion at Chai Nat. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.50	5.81	6.63	7.70	7.76	11.03	12.30	9.61	7.24	6.37	5.88	5.74
2	.49	.90	.52	.70	.71	.08	.31	.49	.18	.34	.87	.73
3	.47	.90	.43	.74	.68	.11	.31	.43	.11	.31	.86	.72
4	.44	.93	.49	.84	.65	.17	.30	.36	.07	.29	.85	.71
5	.42	6.01	.35	8.04	.68	.22	.30	.28	.02	.27	.84	.70
6	5.41	6.05	6.33	8.36	7.73	11.26	12.29	9.19	7.00	6.25	5.83	5.69
7	.40	.06	.37	.55	.84	.32	.29	.11	6.99	.23	.82	.68
8	.40	.02	.54	.50	8.07	.38	.29	8.99	.95	.22	.81	.67
9	.42	5.97	7.12	.34	.30	.44	.27	.86	.92	.21	.80	.66
10	.55	.92	.64	.15	.44	.48	.27	.72	.88	.19	.80	.65
11	5.61	5.84	8.36	7.99	8.50	11.56	12.26	8.61	6.85	6.18	5.78	5.64
12	.62	.81	9.06	.90	.75	.55	.24	.48	.82	.17	.77	.63
13	.62	.80	.54	.87	.79	.61	.22	.34	.81	.15	.76	.62
14	.61	.78	.61	.83	.82	.63	.18	.26	.78	.13	.76	.61
15	.60	.78	.29	.78	10.09	.64	.16	.25	.74	.10	.75	.60
16	5.60	5.83	9.31	7.66	10.30	11.69	12.12	8.21	6.71	6.08	5.75	5.59
17	.60	.83	.18	.50	.36	.72	.06	.19	.70	.06	.75	.58
18	.63	.85	.01	.37	.45	.74	11.99	.24	.68	.05	.75	.55
19	.68	.93	8.92	.27	.51	.84	.91	.19	.66	.04	.75	.53
20	.67	.98	.91	.20	.60	.86	.79	.06	.63	.03	.75	.52
21	5.62	6.11	8.91	7.16	10.68	11.98	11.66	7.93	6.61	6.02	5.74	5.51
22	.60	.29	.76	.13	.73	12.01	.51	.83	.59	.00	.74	.51
23	.58	.48	.58	.16	.83	.06	.35	.72	.57	5.99	.74	.51
24	.57	.66	.38	.37	.85	.10	.16	.62	.54	.97	.74	.18
25	.53	.75	.14	.73	.90	.14	10.97	.56	.53	.96	.74	.03
26	5.53	6.75	8.02	7.92	10.94	12.17	10.76	7.50	6.51	5.95	5.74	5.25
27	.53	.70	7.95	8.05	.98	.22	.56	.45	.49	.93	.74	.37
28	.55	.64	.88	7.99	.99	.24	.34	.40	.45	.92	.74	.38
29	.59	.63	.79	.92	11.01	.27	.13	.34	.42	.91	.74	.38
30	.71	.61	.73	.85	.00	.29	9.93	.28	.41	.90		.39
31		.63		.79	10.99		.77		.39	.89		.73
Mean	5.52	6.14	7.89	7.79	9.03	11.69	11.68	8.35	6.75	6.10	5.78	5.55
Max.	5.71	6.75	9.61	8.55	11.01	12.29	12.31	9.61	7.24	6.37	5.88	5.74
Min.	5.40	5.78	6.33	7.13	7.65	11.03	9.77	7.28	6.39	5.89	5.74	5.03

WATER YEAR 1955 : Max. 12.31 m. Min. 5.03 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	52	94	236	485	501	1,656	2,525	1,069	371	185	104	83
2	51	107	214	485	488	1,680	2,535	1,027	356	179	103	82
3	48	107	196	496	480	1,695	2,535	1,006	340	174	101	80
4	45	112	188	523	473	1,725	2,525	981	331	170	100	79
5	42	124	181	577	480	1,751	2,525	955	320	167	98	77
6	41	130	177	668	493	1,773	2,515	922	315	164	97	76
7	40	132	185	725	523	1,806	2,515	895	313	160	95	74
8	40	125	238	710	586	1,839	2,515	857	304	150	94	73
9	42	118	343	662	650	1,872	2,495	818	297	157	92	72
10	58	110	470	608	692	1,894	2,495	776	288	153	92	71
11	65	98	668	563	710	1,941	2,485	743	281	152	89	69
12	67	94	879	539	785	1,935	2,465	704	274	150	88	68
13	67	92	1,044	530	797	1,971	2,445	662	272	147	86	67
14	65	89	1,069	520	806	1,983	2,406	639	266	143	86	65
15	64	89	957	507	1,246	1,989	2,387	636	258	138	85	64
16	64	97	964	475	1,330	2,015	2,349	625	252	135	85	63
17	64	97	918	435	1,354	2,058	2,292	619	250	132	85	62
18	68	100	863	403	1,383	2,051	2,228	633	246	130	85	58
19	74	112	836	378	1,416	2,118	2,168	619	242	128	85	56
20	73	119	833	361	1,455	2,132	2,084	583	236	127	85	54
21	67	140	833	352	1,491	2,220	2,001	547	232	125	83	53
22	64	170	788	345	1,514	2,245	1,911	520	228	122	83	53
23	62	206	734	352	1,561	2,292	1,812	490	224	121	83	53
24	60	242	674	403	1,571	2,330	1,720	465	218	118	83	21
25	56	260	605	493	1,594	2,368	1,628	450	216	116	83	10
26	56	260	571	544	1,613	2,397	1,528	435	212	115	83	26
27	56	250	553	580	1,632	2,445	1,438	423	208	112	83	37
28	58	238	534	563	1,637	2,465	1,346	410	200	110	83	38
29	63	236	509	544	1,646	2,495	1,262	395	194	109	83	38
30	79	232	493	526	1,642	2,515	1,183	380	192	107		39
31		236		509	1,637		1,125		188	106		82
Total	1,751	4,616	17,753	15,861	34,186	61,636	65,443	20,282	8,124	4,348	2,582	1,843
Mean	58.4	149	592	512	1,103	2,055	2,111	676	262	140	89.0	59.4
Max.	79	260	1,069	725	1,646	2,515	2,535	1,069	371	208	104	83
Min.	40	89	177	345	473	1,656	1,125	380	188	106	83	10
Runoff — mcm.	151.286	398.822	1,533.859	1,370.390	2,953.670	5,325.350	5,654.275	1,752.365	701.914	375.667	223.085	159.235

WATER YEAR 1955 : Max. 2,535 Min. 10 Mean 651 Annual Runoff 20,599.920 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	06.00	12.31	2,535				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 district office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.00 m. (M.S.L.)

Bench Mark: B.M. – C.14

Location: On right bank infront of 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: Rather unstable, no shifting adjustment for flow computation.

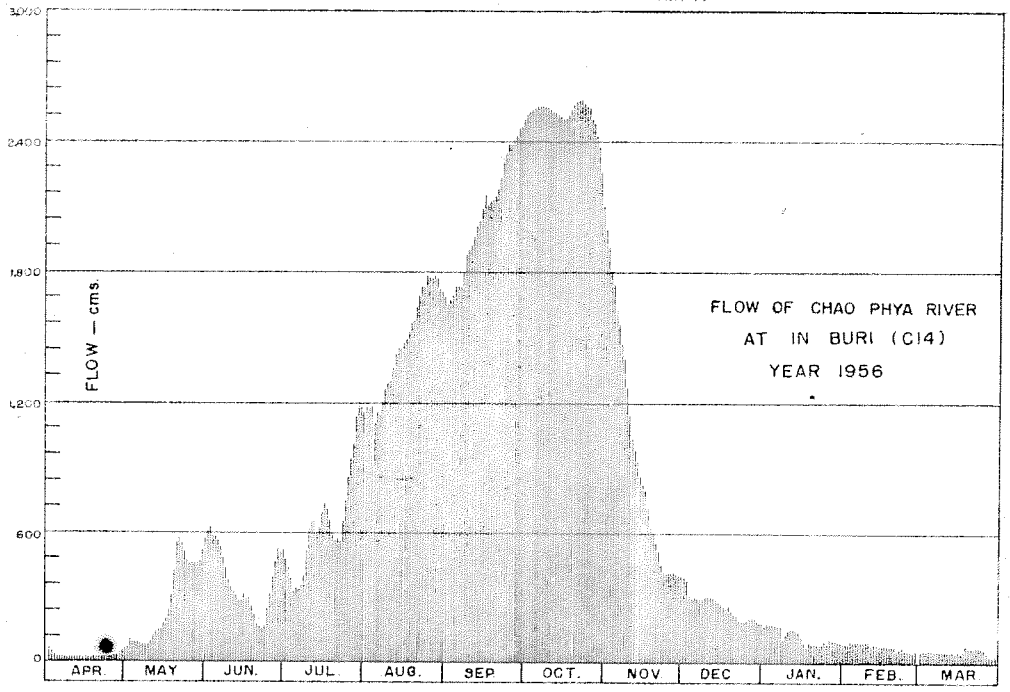
Overbank Flow Conditions: Overbank flow was observed at elevation +12.265 m. (M.S.L.) but not included for flow computation.

General Description: Records poor. Stage – discharge relation used is defined by discharge measurements made 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, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.66	5.74	8.20	7.61	9.93	11.02	12.29	11.64	7.33	6.31	5.82	5.56
2	.47	.98	.23	.55	.90	.06	.30	.48	.25	.37	.82	.57
3	.39	.83	.07	.31	.95	.12	.32	.25	6.89	.34	.87	.57
4	.36	.85	.08	.04	.70	.19	.32	.06	.93	.35	.83	.58
5	.36	.84	.00	.16	.87	.19	.33	10.92	.95	.29	.86	.57
6	5.34	5.80	7.87	7.12	9.81	11.18	12.33	10.82	6.93	6.33	5.86	5.53
7	.33	.78	.69	.22	.99	.30	.33	.60	.91	.28	.83	.53
8	.33	.77	.48	.30	10.15	.44	.33	.44	.93	5.83	.83	.54
9	.33	.76	.26	.86	.19	.49	.32	.12	.94	6.13	.85	.54
10	.33	.89	.19	8.25	.22	.53	.31	9.70	.94	.21	.85	.53
11	5.33	6.06	7.09	8.32	10.38	11.59	12.30	9.41	6.94	6.22	5.80	5.52
12	.33	.18	.00	.37	.52	.67	.30	.35	.94	.21	.80	.51
13	.33	.23	6.88	.11	.55	.71	.29	.15	.89	.20	.75	.50
14	.33	.26	.89	.20	.59	.79	.28	8.93	.83	.07	.73	.45
15	.33	.39	7.03	.47	.64	.89	.27	.87	.82	5.94	.73	.49
16	5.33	6.53	6.92	8.68	10.69	11.81	12.28	8.76	6.75	5.80	5.73	5.44
17	.33	.71	9.45	.52	.74	.84	.29	.26	.74	.66	.72	.59
18	.33	.93	.26	.23	.84	.86	.31	.20	.78	.84	.71	.73
19	.33	7.52	.52	.08	.85	.89	.34	.10	.66	.79	.71	.61
20	.33	.96	.28	.01	.98	.94	.35	7.87	.56	.76	.71	.62
21	5.33	8.06	6.30	8.05	11.08	12.00	12.36	7.79	6.56	5.76	5.50	5.65
22	.33	7.97	.24	7.96	.18	.07	.36	.56	.42	.77	.63	.66
23	.33	.78	.26	8.20	.19	.12	.34	.43	.40	.81	.68	.65
24	.33	.63	.71	.63	.28	.15	.33	.42	.40	.86	.57	.65
25	.34	.60	7.05	.98	.26	.16	.32	.42	.46	.76	.55	.50
26	5.38	7.61	7.39	9.25	11.25	12.18	12.27	7.42	6.52	5.92	5.55	5.37
27	.44	.61	.67	.41	.28	.20	.25	.42	.52	.89	.55	.30
28	.50	.62	.87	.81	.25	.23	.20	.39	.51	.90	.55	.30
29	.58	.66	.80	.98	.17	.24	.14	.37	.39	.86		.36
30	.65	.79	.86	.91	.13	.27	11.99	.35	.39	.83		.38
31		8.02		.86	.08		.74		.37	.82		.38
Mean	5.37	6.78	7.63	8.31	10.64	11.74	11.27	8.98	6.74	6.00	5.73	5.52
Max.	5.65	8.06	9.76	9.98	11.28	12.27	12.36	11.64	7.33	6.37	5.87	5.73
Min.	5.33	5.74	6.24	7.04	9.70	11.02	11.74	7.35	6.37	5.66	5.55	5.30

WATER YEAR 1956 : Max. 12.36 m. Min. 5.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	72	83	622	463	1,183	1,652	2,515	1,989	393	174	95	59
2	48	119	630	447	1,172	1,671	2,525	1,894	375	165	95	60
3	39	97	586	388	1,183	1,700	2,545	1,768	299	179	103	60
4	36	100	588	324	1,100	1,735	2,545	1,671	299	181	97	62
5	36	98	566	352	1,161	1,735	2,555	1,600	304	170	101	60
6	34	92	531	343	1,139	1,730	2,555	1,556	299	177	101	56
7	33	89	483	366	1,206	1,795	2,555	1,455	294	169	97	56
8	33	88	430	385	1,270	1,872	2,555	1,387	299	97	97	57
9	33	86	375	528	1,286	1,900	2,545	1,258	301	143	100	57
10	33	106	359	636	1,298	1,923	2,535	1,100	301	157	97	56
11	33	132	336	656	1,362	1,959	2,525	999	301	158	92	54
12	33	152	315	671	1,421	2,007	2,525	978	301	157	92	53
13	33	160	288	597	1,451	2,052	2,515	909	290	155	85	52
14	33	165	290	622	1,451	2,084	2,505	839	277	133	82	46
15	33	188	322	701	1,473	2,153	2,495	821	274	115	82	51
16	33	216	297	764	1,496	2,097	2,505	788	260	92	82	45
17	33	252	304	716	1,519	2,118	2,515	639	258	72	80	63
18	33	299	262	630	1,566	2,132	2,535	622	266	98	79	82
19	33	440	214	588	1,571	2,153	2,565	594	242	91	79	65
20	33	555	169	569	1,632	2,190	2,575	531	222	86	79	67
21	33	583	172	580	1,680	2,235	2,585	509	218	86	52	71
22	33	558	162	555	1,730	2,302	2,585	450	194	88	68	72
23	33	507	165	650	1,735	2,349	2,565	418	190	94	74	71
24	33	468	252	749	1,784	2,378	2,555	415	190	101	60	71
25	34	460	327	854	1,773	2,387	2,545	415	202	86	58	52
26	38	463	408	943	1,768	2,406	2,495	415	214	110	58	37
27	45	463	478	999	1,784	2,425	2,475	415	214	106	58	30
28	52	465	531	1,139	1,768	2,455	2,425	408	212	107	58	30
29	62	475	512	1,202	1,725	2,465	2,368	403	188	101		36
30	71	509	528	1,176	1,705	2,495	2,228	398	188	97		38
31		572		1,157	1,680		2,051		185	95		38
Total	1,161	9,040	11,502	20,750	46,072	65,535	77,567	27,644	8,059	3,858	2,301	1,707
Mean	38.7	292	383	669	1,486	2,085	2,502	921	259	124	82.2	55.1
Max.	72	583	630	1,202	1,784	2,495	2,585	1,989	395	185	103	82
Min.	33	83	162	324	1,100	1,652	2,051	398	185	86	58	30
Runoff - MCM.	100.310	781.056	993.773	1,792.800	3,980.621	5,662.224	6,701.789	2,388.442	694.570	333.331	198.806	147.485

WATER YEAR 1956 : Max. 2,585 Min. 30 Mean 754 Annual Runoff 23,775.206 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 22	06.00	12.36	2,585				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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 infront of Wat Chula Mani, 100 meters downstream from confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: -0.25 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: Rather unstable, no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: No overbank flow.

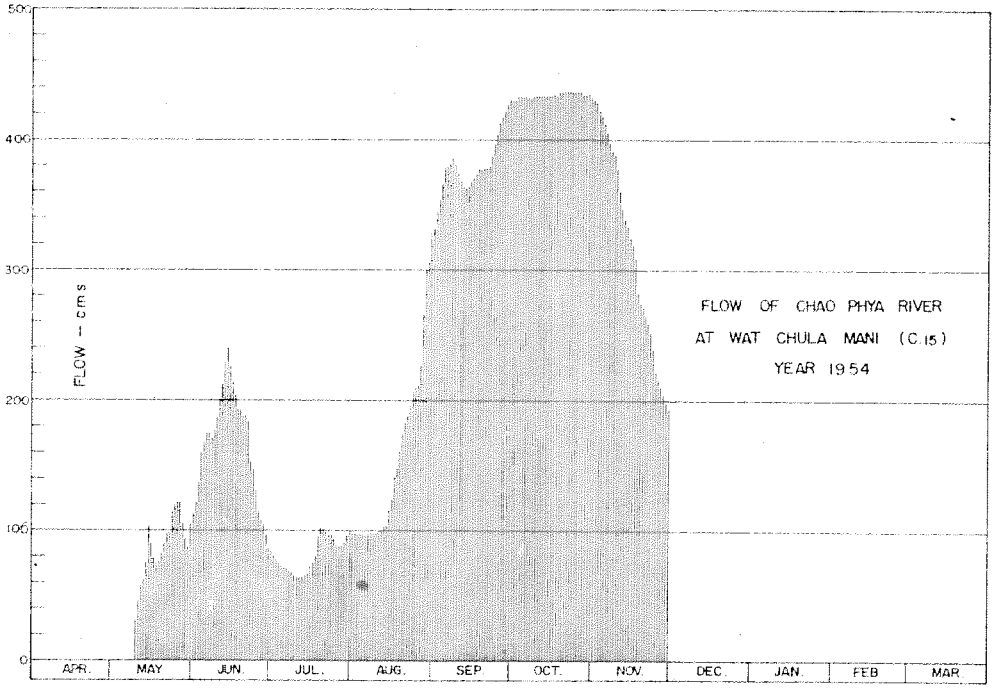
General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.55	1.19	1.37	3.50	4.15	4.15				
2			.62	.14	.36	.57	.15	.14				
3			.80	.10	.35	.64	.16	.10				
4			2.01	.07	.36	.74	.16	.07				
5			.11	.05	.36	.81	.16	.04				
6			2.16	1.05	1.35	3.82	4.16	3.99				
7			.16	.03	.36	.83	.16	.94				
8			.12	.00	.37	.85	.16	.89				
9			.18	0.98	.38	.82	.17	.88				
10		0.47	.29	.95	.38	.77	.17	.78				
11		0.70	2.41	0.95	1.39	3.73	4.17	3.67				
12		.86	.53	.94	.40	.70	.17	.58				
13		.98	.66	.95	.43	.69	.17	.53				
14		1.10	.75	.98	.45	.71	.17	.48				
15		.42	.63	1.00	.59	.73	.17	.42				
16		1.19	2.53	1.05	1.67	3.75	4.18	3.36				
17		.12	.43	.10	.83	.77	.18	.30				
18		.09	.33	.16	.91	.79	.18	.07				
19		.13	.32	.35	2.06	.79	.19	.03				
20		.18	.29	.42	.16	.80	.19	.00				
21		1.28	2.29	1.40	2.26	3.80	4.19	2.96				
22		.36	.25	.39	.30	.82	.19	.90				
23		.38	1.94	.35	.37	.88	.19	.85				
24		.56	.89	.35	.46	.94	.19	.73				
25		.61	.73	.29	.50	.99	.19	.59				
26		1.63	1.54	1.25	2.51	4.05	4.19	2.54				
27		.63	.48	.25	.71	.08	.19	.49				
28		.44	.44	.25	.97	.10	.18	.43				
29		.31	.33	.29	3.24	.13	.18	.38				
30		.22	.23	.35	.39	.15	.18	.33				
31		.46		.39	.46		.16					
Mean			2.07	1.16	1.96	3.82	4.17	3.32				
Max.			2.75	1.42	3.46	4.15	4.19	4.15				
Min.			1.23	0.94	1.35	3.50	4.15	2.33				

WATER YEAR 1954 : Max. 4.19 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			114	84	99	336	430	430				
2			121	83	98	346	430	428				
3			138	77	97	356	432	422				
4			159	75	98	370	432	417				
5			169	75	98	378	432	412				
6			175	73	97	381	432	405				
7			175	71	98	382	432	398				
8			171	69	99	385	432	391				
9			177	67	99	381	433	389				
10		32	188	65	99	374	433	375				
11		47	201	65	100	368	433	360				
12		58	214	64	101	364	433	347				
13		64	220	65	104	363	433	340				
14		77	240	67	105	365	433	333				
15		103	226	69	118	368	433	325				
16		84	214	73	126	371	434	317				
17		79	203	77	141	374	434	309				
18		76	193	82	149	377	434	279				
19		79	192	92	164	377	436	274				
20		83	188	103	175	378	436	270				
21		91	188	101	185	378	436	265				
22		98	184	100	189	381	436	258				
23		99	152	97	197	389	436	252				
24		115	142	97	207	398	436	238				
25		120	131	92	211	405	436	221				
26		122	114	89	212	414	436	215				
27		122	108	89	235	418	436	210				
28		105	105	89	266	422	434	203				
29		94	95	92	301	427	434	198				
30		87	87	97	308	430	434	193				
31		106		100	330		432					
Total			4,998	2,539	4,906	11,456	13,443	9,484				
Mean			167	81.9	158	382	434	316				
Max.			240	103	330	430	436	430				
Min.			87	64	97	336	430	193				
Runoff - mcm.			431.827	219.370	423.878	989.798	1,161.475	819.418				

WATER YEAR 1954 : Max. 436 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 27	18.00	4.19	436				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 infront of Wat Chula Mani, 100 meters downstream from confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: - 0.25 m. (M.S.L.)

Bench Mark:

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.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for period of no gage - height record which are poor. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

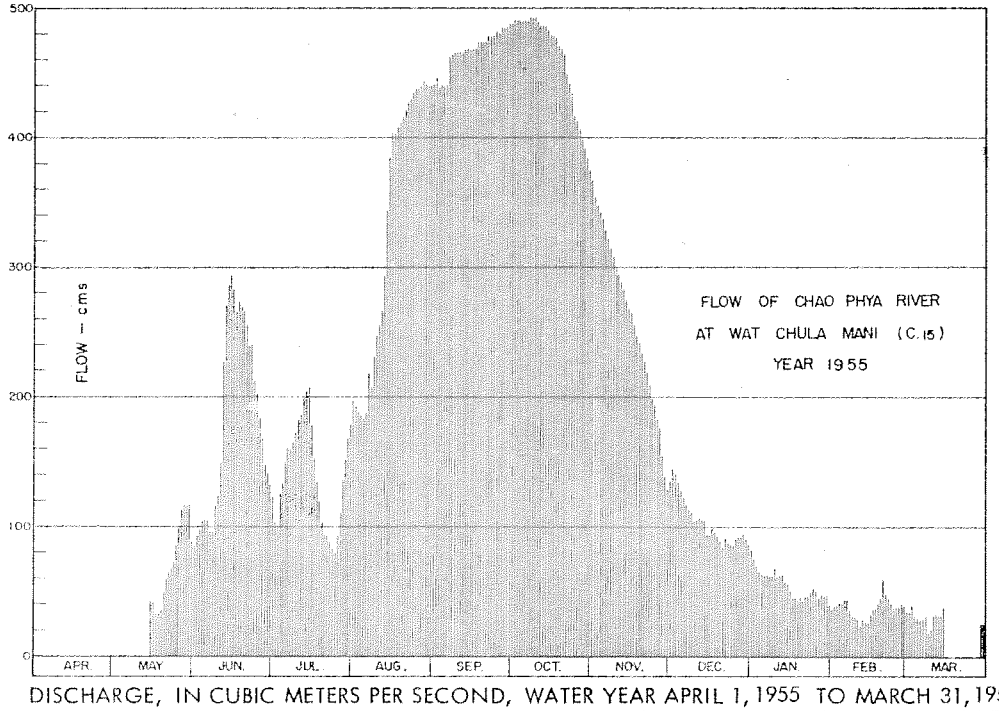
Remarks: No gage - height record for period Apr. 1 to May 14 and Mar. 22 - 28.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.21	1.53	3.37	4.22	4.56	3.73	* 1.30	1.17	0.57	0.52
2			.31	.42	.33	.25	.51	.65	.87	.08	.58	.52
3			.32	.41	.50	.20	.51	.58	.82	.02	.60	.60
4			.44	.69	.26	.21	.51	.54	.77	0.96	.63	.48
5			.46	.77	.25	.21	.51	.49	.72	.93	.61	.43
6			1.44	1.02	2.30	4.33	4.51	3.44	1.65	0.93	0.67	0.41
7			.35	3.03	.57	.35	.51	.30	.59	.96	.67	.43
8			.35	.02	.47	.36	.52	.34	.53	.91	.52	.48
9			.58	.02	.68	.37	.52	.20	.52	.93	.46	.24
10			.68	.15	.82	.37	.52	.24	.45	.99	.45	.28
11			1.92	2.25	3.89	4.57	4.50	3.19	1.46	0.91	0.43	0.33
12			2.66	.29	.99	.37	.49	.14	.47	.93	.35	.42
13			3.01	.48	4.19	.38	.49	.09	.46	.93	.41	.49
14			.13	.45	.56	.38	.48	.04	.44	.85	.40	.48
15		0.64	.18	.47	.85	.38	.47	2.99	.31	.83	.39	.44
16		0.65	3.09	2.20	3.98	4.39	4.46	2.94	1.32	0.74	0.46	0.47
17		.49	2.97	1.95	.98	.39	.44	.88	.38	.69	.55	.48
18		.47	3.02	.77	4.01	.42	.45	.81	.34	.68	.55	.47
19		.55	2.99	.61	.04	.43	.59	.72	.30	.64	.60	.47
20		.75	.96	.42	.06	.43	.58	.65	.25	.59	.69	.46
21		0.90	2.87	1.53	4.10	4.43	4.36	2.64	1.20	0.65	0.88	0.56
22		.95	.75	.30	.14	.44	.26	.59	.27	.70	.71	
23		1.00	.75	.24	.15	.04	.23	.49	.24	.72	.69	
24		.05	.51	.18	.18	.45	.17	.39	.22	.76	.61	
25		.22	.43	.14	.20	.46	.06	.34	.22	.80	.56	
26		1.39	2.25	1.30	4.20	4.46	4.04	2.24	1.29	0.76	0.58	
27		.55	.11	.48	.21	.48	.00	.17	.30	.68	.58	
28		.58	1.90	.31	.23	.48	3.94	1.97	.30	.71	.62	
29		.58	.85	.14	.22	.46	.89	.81	.32	.70		0.37
30		.58	.72	2.10	.21	.50	.86	.71	.27	.75		.37
31		.25		.18	.21		.79		.22	.62		.41
Mean			2.21	1.80	3.45	4.36	4.35	2.88	1.42	0.82	0.56	
Max.			3.18	3.47	4.23	4.50	4.52	3.73	1.87	1.17	0.88	
Min.			1.21	1.14	2.25	4.20	3.86	1.71	1.20	0.62	0.33	

WATER YEAR 1955 : Max. 4.52 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			86	113	197	441	488	368	138	83	38	35
2			94	193	193	446	490	354	145	75	39	35
3			99	102	189	438	490	347	140	71	40	40
4			105	127	185	440	490	342	135	66	42	32
5			106	135	184	440	490	335	130	63	41	30
6			105	150	189	443	490	328	124	63	45	29
7			97	161	219	462	490	321	118	64	45	30
8			97	160	208	464	492	314	113	62	35	33
9			117	166	232	466	492	308	112	63	32	19
10			126	174	248	466	492	301	105	68	31	21
11			150	184	257	466	488	295	106	62	30	24
12			229	188	269	468	486	288	107	63	24	29
13			271	200	295	468	486	282	106	63	29	33
14			287	205	344	468	485	275	105	57	28	33
15		43	293	208	385	468	482	269	94	56	27	30
16		43	282	179	403	469	479	263	95	50	32	32
17		53	268	153	403	469	478	256	99	46	37	33
18		52	275	135	408	474	476	247	96	46	37	32
19		57	269	120	412	474	469	242	93	43	40	32
20		56	265	103	416	474	468	233	89	46	46	32
21		61	254	95	422	474	464	227	85	43	60	38
22		65	240	93	428	478	448	219	91	47	48	
23		69	240	88	430	478	440	210	88	48	46	
24		73	212	83	435	479	433	199	87	51	41	
25		82	205	80	438	481	416	194	87	54	38	
26		100	184	93	438	481	412	183	92	51	39	
27		114	169	108	440	485	406	176	93	46	39	
28		117	148	129	443	485	398	155	93	43	41	
29		117	141	152	441	485	391	139	95	47		26
30		117	150	168	440	488	386	129	91	50		26
31		89		177	440		377		87	41		29
Total			5,538	4,332	10,431	14,016	14,272	7,739	3,239	1,736	1,070	
Mean			185	140	336	467	460	260	104	56	38.2	
Max.			293	208	443	488	492	368	145	83	60	
Min.			86	80	184	438	377	129	85	41	24	
Runoff - MCM.			478.483	374.285	901.258	1,210.982	1,233.101	673.834	279.850	149.990	92.448	

WATER YEAR 1955 : Max. 492 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	18.00	4.52	492				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 infront of Wat Chula Mani, 100 meters downstream from confluence with Khlong Bang Ban, Amphoe Bang Ban, Ayuthaya.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: -0.25 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 year without actual ratings.

Overbank Flow Conditions: No overbank flow.

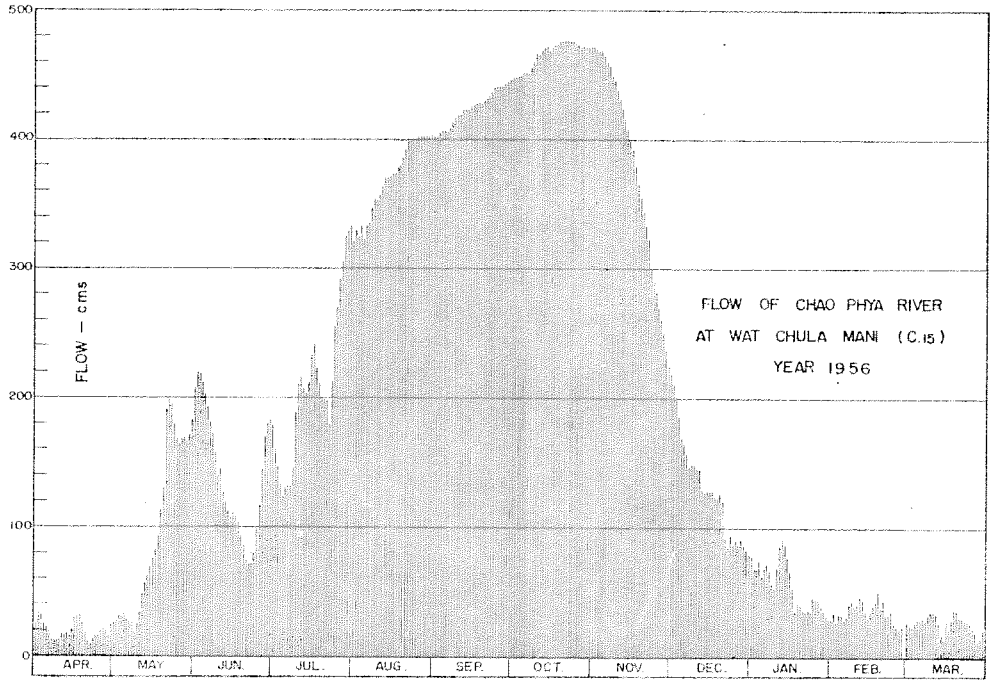
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.39	0.37	2.47	2.18	3.39	3.97	4.26	4.40	2.56	1.12	0.44	0.39
2	.50	.40	.57	.05	.45	.98	.26	.39	.48	0.99	.51	.34
3	.47	.47	.57	1.89	.42	.99	.27	.38	.40	.89	.39	.35
4	.35	.45	.50	.75	.48	4.00	.27	.38	.26	1.07	.48	.39
5	.31	.54	.42	.65	.41	.00	.28	.36	.10	0.91	.48	.42
6	0.25	0.44	2.33	1.73	3.48	4.00	4.29	4.35	2.05	1.00	0.41	0.41
7	.11	.39	.21	.74	.50	.02	.30	.31	1.96	.03	.49	.44
8	.06	.40	.13	.74	.58	.05	.31	.27	.89	0.97	.62	.41
9	.12	.29	.01	.88	.62	.07	.34	.24	.91	.84	.65	.48
10	.13	.40	1.83	2.26	.62	.08	.37	.20	.90	.74	.60	.52
11	0.18	0.52	1.87	2.50	3.66	4.08	4.37	4.15	1.88	0.97	0.62	0.51
12	.20	.77	.68	.55	.70	.10	.39	.11	.87	1.21	.70	.50
13	.21	.89	.60	.47	.74	.11	.40	.05	.70	.27	.66	.38
14	.20	.96	.55	.44	.74	.11	.40	.01	.70	.23	.51	.21
15	.29	1.01	.49	.51	.75	.12	.39	3.95	.70	.10	.44	.15
16	0.43	1.11	1.52	2.68	3.77	4.13	4.40	3.90	1.69	0.98	0.54	0.40
17	.45	.20	.48	.76	.77	.13	.41	.80	.70	.89	.60	.29
18	.46	.31	.43	.61	.80	.14	.42	.70	.64	.53	.64	.43
19	.36	.56	.29	.50	.82	.14	.43	.65	.64	.63	.76	.54
20	.21	2.03	.21	.40	.86	.15	.43	.56	.67	.60	.57	.53
21	0.09	2.32	1.08	2.37	3.90	4.16	4.45	3.48	1.40	0.53	0.66	0.43
22	.03	.41	.04	.37	.94	.17	.43	.40	.28	.51	.47	.44
23	.12	.35	.04	.22	.95	.19	.43	.25	.20	.53	.48	.40
24	.16	.20	.14	.54	.96	.21	.43	.16	.30	.53	.54	.42
25	.22	.11	.38	.89	.96	.22	.42	.09	.23	.68	.39	.39
26	0.29	2.07	1.58	3.01	3.97	4.22	4.41	3.00	1.26	0.66	0.30	0.31
27	.29	.10	.83	.18	.97	.22	.40	2.92	.22	.66	.27	.26
28	.30	.11	2.10	.27	.97	.23	.40	.83	.28	.66	.34	.11
29	.16	.10	.22	.42	.97	.24	.40	.73	.21	.54		.14
30	.35	.13	.24	.46	.97	.25	.40	.63	.18	.44		.29
31		.25		.48	.98		.40		.13	.44		.26
Mean	0.26	1.28	1.79	2.47	3.74	4.12	4.37	3.75	1.69	0.81	0.52	0.37
Max.	0.50	2.41	2.57	3.48	3.98	4.25	4.43	4.40	2.56	1.27	0.76	0.54
Min.	0.03	0.29	1.04	1.65	3.39	3.97	4.26	2.63	1.13	0.44	0.27	0.11

WATER YEAR 1956 : Max. 4.43 m. Min. 0.03 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	27	26	208	177	321	402	448	471	218	79	30	27
2	34	28	219	163	329	403	448	469	209	68	35	24
3	32	32	219	147	325	405	449	468	200	68	27	24
4	25	31	211	133	333	406	449	468	185	75	33	27
5	23	36	202	124	323	406	451	464	168	62	33	29
6	20	30	193	131	333	406	452	459	163	69	29	29
7	13	27	180	132	336	409	452	456	154	71	33	30
8	11	28	172	132	347	414	456	449	147	67	41	29
9	14	21	159	146	353	417	461	444	149	57	43	33
10	14	28	141	185	353	419	466	438	148	50	40	35
11	17	35	145	211	358	419	466	430	146	67	41	35
12	17	52	127	216	364	422	469	424	145	86	47	34
13	18	60	119	208	370	423	471	414	128	91	44	27
14	17	66	113	204	370	423	471	408	128	87	35	18
15	21	70	109	212	371	425	469	399	128	77	30	15
16	30	78	112	232	374	427	471	392	127	67	36	28
17	31	85	108	241	374	427	473	378	128	54	40	21
18	32	94	104	223	378	428	474	364	123	36	43	30
19	26	115	92	211	381	428	476	357	123	42	51	36
20	18	161	86	200	386	430	476	344	126	40	38	36
21	12	192	75	197	392	432	476	333	101	36	44	30
22	9.85	201	72	197	398	433	476	322	91	35	32	30
23	14	195	72	181	399	436	476	302	85	36	33	28
24	16	179	80	215	400	440	476	291	93	36	36	29
25	18	169	99	257	400	441	474	282	87	46	27	27
26	21	165	117	271	402	441	473	270	90	44	22	23
27	21	168	141	293	402	441	471	260	87	44	21	20
28	22	169	168	305	402	443	471	250	91	40	24	13
29	16	168	181	325	402	444	471	238	86	36		15
30	25	172	183	330	402	446	471	226	83	30		21
31		184		333	403		471		79	30		20
Total	614.85	3,065	4,207	6,532	11,481	12,736	14,456	11,270	4,016	1,726	988	823
Mean	20.5	98.9	140	211	370	424	466	376	129	57.5	35.3	26.5
Max.	34	201	219	333	403	446	476	471	258	91	51	36
Min.	9.85	21	72	124	321	402	448	226	79	30	21	13
Runoff - mcm.	53.123	264.816	363.485	564.369	991.958	1,100.390	1,248.998	973.728	346.982	149.126	85.363	71.107

WATER YEAR 1956 : Max. 476 Min. 9.85 Mean 197 Annual Runoff 6,213.443 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 24	06.00	4.43	476				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
LOP BURI RIVER BASIN

Lop Buri River at Wat Pho Ngam, Lop Buri (L.2)

Location: Lat 14°- 47' - 49" N, Long 100°- 36' - 39" E, on left bank infront of Wat Pho Ngam, one kilometer west of railway station, Amphoe Muang, Lop Buri.

Drainage Area: Flood plain.

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 - 62

Rating Operation:

Period of Rating: 1950 - 1951
Rated by Float: -
Rated by Current Meter: 1950 - 1951

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

Overbank Flow Conditions: No overbank flow.

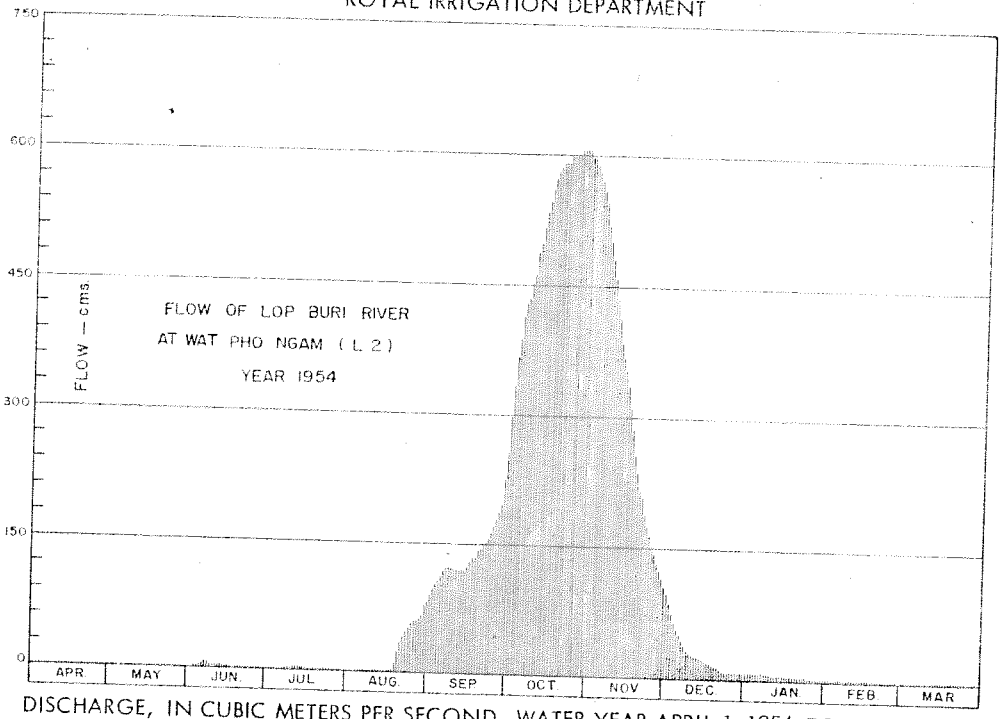
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1950
No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.34	2.27	2.35	2.50	2.50	5.25	7.31	8.10	5.76	3.30	2.62	2.37
2	.34	.28	.36	.50	.48	.78	.44	.08	.58	.28	.62	.37
3	.34	.28	.59	.49	.48	.86	.54	.06	.39	.26	.61	.37
4	.34	.28	.72	.49	.49	.91	.63	.04	.18	.24	.60	.36
5	.33	.29	.85	.48	.49	.97	.71	.01	.00	.22	.58	.36
6	2.33	2.28	3.10	2.50	2.49	6.06	7.73	7.95	4.83	3.20	2.57	2.35
7	.33	.28	.38	.54	.48	.10	.75	.91	.68	.18	.57	.35
8	.33	.27	.19	.62	.47	.11	.80	.86	.49	.16	.55	.34
9	.33	.26	2.98	.70	.46	.10	.83	.80	.34	.14	.53	.34
10	.33	.28	.95	.75	.44	.09	.88	.74	.25	.12	.51	.33
11	2.33	2.31	2.92	2.78	2.44	6.08	7.91	7.68	4.18	3.10	2.50	2.32
12	.33	.31	.88	.81	.47	.07	.95	.59	.13	.08	.49	.32
13	.33	.40	.85	.83	.48	.06	.98	.53	.08	.06	.47	.31
14	.33	.43	.83	.84	.49	.07	8.01	.49	.05	.04	.46	.30
15	.32	.37	.80	.79	.49	.13	.04	.42	3.98	.01	.45	.29
16	2.32	2.36	2.77	2.72	2.51	6.20	8.06	7.32	3.92	2.98	2.43	2.28
17	.32	.35	.74	.70	.54	.24	.08	.24	.85	.96	.42	.27
18	.31	.34	.71	.69	.56	.29	.09	.11	.79	.94	.42	.26
19	.31	.33	.69	.68	3.62	.32	.10	6.98	.71	.92	.42	.25
20	.31	.33	.68	.68	4.24	.35	.10	.87	.63	.90	.41	.25
21	2.31	2.32	2.62	2.69	4.54	6.39	8.10	6.84	3.55	2.88	2.41	2.25
22	.30	.32	.57	.65	.65	.42	.11	.71	.46	.86	.40	.23
23	.30	.33	.56	.64	.79	.46	.11	.60	.40	.83	.40	.22
24	.29	.34	.56	.64	.90	.54	.11	.52	.37	.81	.40	.22
25	.29	.36	.55	.65	5.03	.60	.11	.45	.37	.79	.39	.21
26	2.28	2.39	2.54	2.62	5.07	6.66	8.12	6.34	3.36	2.76	2.39	2.20
27	.28	.39	.53	.60	.10	.71	.12	.22	.35	.74	.38	.20
28	.28	.37	.52	.58	.15	.76	.12	.10	.34	.72	.38	.19
29	.27	.37	.51	.55	.19	.94	.12	.01	.33	.69		.18
30	.27	.36	.51	.53	.46	7.14	.11	5.90	.33	.66		.18
31		.35		.52	.54		.11		.32	.63		.18
Mean	2.32	2.33	2.71	2.64	3.48	6.27	7.94	7.21	4.06	2.98	2.48	2.28
Max.	2.34	2.43	3.38	2.84	5.54	7.14	8.12	8.10	5.76	3.30	2.62	2.37
Min.	2.27	2.26	2.35	2.48	2.44	5.64	7.31	5.90	3.32	2.63	2.38	2.18

WATER YEAR 1954 : Max. 8.12 m. Min. 2.18 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.88	0.74	0.90	1.90	1.50	88	301	590	96	8.00	2.10	0.94
2	0.88	0.76	0.92	1.50	1.40	98	337	560	85	7.80	2.10	0.94
3	0.88	0.76	1.95	1.45	1.40	105	367	570	75	7.60	2.05	0.94
4	0.88	0.76	2.40	1.45	1.45	102	395	560	64	7.40	2.00	0.92
5	0.86	0.78	3.50	1.40	1.45	111	422	545	55	7.20	1.90	0.92
6	0.86	0.76	6.00	1.50	1.45	118	429	518	50	7.00	1.85	0.90
7	0.86	0.76	8.80	1.70	1.40	121	456	500	42	6.80	1.85	0.90
8	0.86	0.74	6.30	2.10	1.35	122	454	479	36	6.60	1.75	0.88
9	0.86	0.72	4.80	2.50	1.30	121	466	464	31	6.40	1.65	0.88
10	0.86	0.76	4.50	2.75	1.20	120	487	432	29	6.20	1.55	0.86
11	0.86	0.82	4.20	2.90	1.20	119	500	411	27	6.00	1.50	0.84
12	0.86	0.82	3.80	3.10	1.35	119	518	382	25	5.80	1.45	0.84
13	0.86	1.00	3.50	3.30	1.40	118	531	364	24	5.60	1.35	0.82
14	0.86	1.15	3.20	3.40	1.45	119	545	352	23	5.40	1.30	0.80
15	0.84	0.94	3.00	2.95	1.45	124	560	331	22	5.10	1.15	0.78
16	0.84	0.92	2.85	2.60	1.55	130	570	305	20	4.80	1.15	0.76
17	0.84	0.90	2.70	2.50	1.70	134	580	284	18	4.60	1.10	0.74
18	0.82	0.88	2.55	2.45	1.80	134	585	254	17	4.60	1.10	0.72
19	0.82	0.86	2.45	2.40	18	141	590	229	15	4.20	1.10	0.70
20	0.82	0.86	2.40	2.40	28	144	590	211	14	4.00	1.05	0.70
21	0.82	0.84	2.10	2.35	37	148	590	206	12	3.80	1.05	0.66
22	0.80	0.84	1.85	2.25	41	151	598	187	10	3.60	1.00	0.66
23	0.80	0.86	1.80	2.20	47	156	598	172	9.00	3.30	1.00	0.64
24	0.78	0.88	1.80	2.20	51	165	598	162	8.70	3.10	1.00	0.64
25	0.78	0.92	1.75	2.15	57	172	598	152	8.70	2.95	0.98	0.62
26	0.76	0.98	1.70	2.10	59	180	605	143	8.60	2.80	0.98	0.60
27	0.76	0.98	1.65	2.00	60	187	605	132	8.50	2.70	0.96	0.60
28	0.76	0.94	1.60	1.90	63	194	605	121	8.40	2.60	0.96	0.58
29	0.74	0.94	1.55	1.75	65	222	605	114	8.40	2.45		0.56
30	0.74	0.92	1.55	1.65	78	261	598	106	8.30	2.30		0.56
31		0.90		1.60	82		598		8.20	2.15		0.56
Total	24.84	26.69	88.97	68.00	736.80	4,227	16,261	9,844	866.80	152.65	38.98	23.46
Mean	0.83	0.86	2.96	2.19	22.80	141	524	328	27.96	4.92	1.39	0.76
Max.	0.88	1.15	8.80	3.40	82	261	605	590	96	8.00	2.10	0.94
Min.	0.74	0.74	1.55	1.40	1.20	88	301	106	8.20	2.15	0.96	0.56
Runoff — mcm.	2.146	2.306	7.687	5.875	61.087	365.213	1,404.950	850.522	74.891	13.189	3.368	2.027

WATER YEAR 1954 : Max. 605 Min. 0.56 Mean 88.6 Annual Runoff 2,793.242 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	18.00	8.12	605				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
LOP BURI RIVER BASIN

Lop Buri River at Wat Pho Ngam, Lop Buri (L.2)

Location: Lat 14°- 47' - 43" N, Long 100°- 36' - 35" E, on left bank infront of Wat Pho Ngam, one kilometer west of railway station, Amphoe Muang, Lop Buri.

Drainage Area: Flood plain.

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 - 62

Rating Operation:

Period of Rating: 1950 - 51
Rated by Float: -
Rated by Current Meter: 1950 - 51

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

Overbank Flow Conditions: No overbank flow.

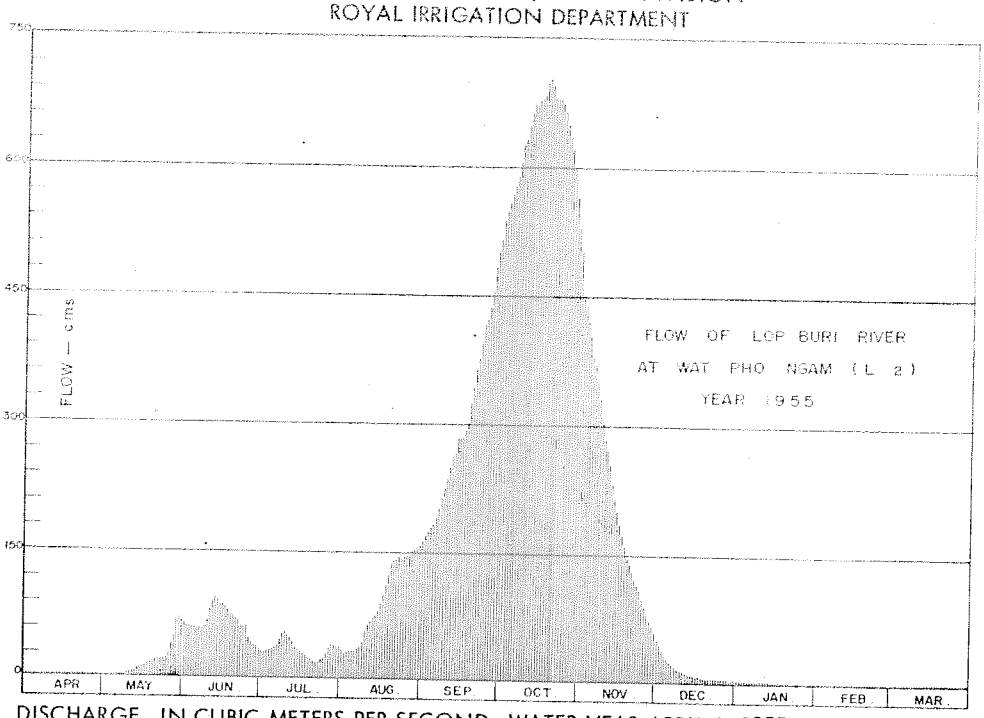
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1950. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.16	2.77	5.19	4.44	4.50	6.56	8.00	7.83	4.92	3.10	2.54	2.39
2	.16	.79	.15	.40	.47	.60	.02	.76	.73	.08	.53	.38
3	.16	.82	.14	.45	.46	.63	.04	.70	.54	.06	.52	.38
4	.15	.85	.12	.50	.44	.65	.06	.64	.41	.04	.51	.38
5	.15	.87	.11	.54	.46	.69	.08	.58	.28	.02	.50	.37
6	2.13	2.89	5.09	4.60	4.48	6.74	8.10	7.55	4.13	3.02	2.51	2.37
7	.13	.91	.08	.68	.52	.82	.12	.46	.02	.00	.51	.37
8	.12	.97	.08	.81	.59	.91	.15	.41	3.93	2.98	.49	.36
9	.11	3.05	.19	.97	.95	.97	.16	.32	.84	.96	.49	.36
10	.10	.14	.48	5.02	5.16	7.03	.18	.24	.77	.94	.48	.36
11	2.10	3.21	5.65	4.95	5.25	7.10	8.20	7.17	3.71	2.92	2.48	2.35
12	.09	.32	.72	.83	.30	.15	.21	.07	.66	.90	.47	.35
13	.10	.42	.76	.71	.37	.17	.21	6.99	.61	.88	.47	.35
14	.11	.53	.72	.54	.46	.24	.22	.87	.55	.86	.46	.34
15	.13	.59	.61	.49	.56	.24	.22	.78	.50	.84	.46	.34
16	2.14	3.67	5.63	4.42	5.71	7.25	8.23	6.68	3.47	2.82	2.46	2.34
17	.16	.74	.56	.34	.87	.28	.24	.60	.43	.80	.45	.33
18	.18	.82	.50	.27	6.02	.33	.25	.49	.40	.78	.45	.33
19	.21	.89	.44	.18	.15	.41	.24	.39	.37	.76	.44	.32
20	.26	.95	.38	.07	.30	.47	.22	.29	.34	.74	.44	.32
21	2.30	3.99	5.34	4.01	6.33	7.54	8.22	6.18	3.32	2.72	2.44	2.31
22	.34	4.01	.27	3.99	.34	.59	.22	.09	.30	.70	.43	.31
23	.37	.03	.12	4.02	.35	.65	.21	.00	.28	.64	.43	.30
24	.42	.04	.16	.11	.35	.69	.20	5.92	.26	.66	.42	.30
25	.45	.20	4.96	.10	.37	.72	.18	.79	.24	.64	.41	.30
26	2.50	4.46	4.83	4.42	6.39	7.76	8.16	5.65	3.22	2.62	2.41	2.29
27	.57	.73	.70	.59	.41	.82	.14	.49	.20	.60	.40	.29
28	.62	5.02	.64	.66	.43	.87	.11	.34	.18	.58	.40	.29
29	.68	.31	.57	.66	.45	.92	.05	.22	2.96	.57	.39	.28
30	.73	.36	.50	.66	.46	.96	7.98	.10	3.14	.56		.28
31		.26		.58	.50		.91		.12	.55		.28
Mean	2.26	3.44	5.22	4.46	5.59	7.26	8.15	6.65	3.64	2.82	2.45	2.33
Max.	2.73	5.36	5.76	5.02	6.50	7.96	8.25	7.83	4.92	3.10	2.54	2.39
Min.	2.09	2.77	4.50	3.99	4.44	6.56	7.91	5.10	2.96	2.55	2.39	2.28

WATER YEAR 1955 : Max. 8.25 m. Min. 2.09 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.52	2.85	65	34	36	167	540	446	52	6.00	1.70	0.98
2	0.52	2.95	63	33	31	172	550	440	44	5.80	1.65	0.96
3	0.52	3.20	62	35	35	176	560	418	37	5.60	1.60	0.96
4	0.50	3.20	61	36	34	179	570	398	33	5.40	1.55	0.96
5	0.50	3.50	61	37	35	184	580	379	29	5.20	1.50	0.94
6	0.46	3.90	60	39	35	191	590	370	25	5.20	1.55	0.94
7	0.46	4.10	59	42	37	203	605	343	23	5.00	1.55	0.94
8	0.44	4.70	59	47	39	217	628	328	20	4.80	1.45	0.92
9	0.42	5.50	65	54	53	228	635	303	18	4.60	1.45	0.92
10	0.40	6.40	79	56	63	239	650	284	16	4.40	1.40	0.92
11	0.40	7.10	89	53	68	252	665	267	15	4.20	1.40	0.90
12	0.38	8.20	93	48	71	263	673	246	14	4.00	1.35	0.90
13	0.40	9.40	96	43	74	267	673	231	13	3.80	1.35	0.90
14	0.42	12	93	37	78	284	680	211	12	3.60	1.30	0.88
15	0.46	13	87	36	84	284	680	197	11	3.40	1.30	0.88
16	0.48	14	88	34	93	286	688	182	10	3.20	1.30	0.88
17	0.52	16	84	31	104	293	695	172	10	3.00	1.25	0.86
18	0.56	17	80	29	115	306	703	159	9.00	2.90	1.25	0.86
19	0.62	19	77	27	126	328	695	148	8.70	2.80	1.20	0.84
20	0.72	21	74	24	139	346	680	138	8.40	2.70	1.20	0.84
21	0.80	22	72	22	142	367	680	128	8.20	2.60	1.20	0.82
22	0.88	22	69	22	143	382	680	120	8.00	2.50	1.15	0.82
23	0.94	23	61	22	144	402	673	113	7.80	2.40	1.15	0.80
24	1.10	23	63	25	144	415	665	107	7.60	2.30	1.10	0.80
25	1.25	27	63	25	146	425	650	98	7.40	2.20	1.05	0.80
26	1.50	35	48	34	148	440	635	89	7.20	2.10	1.05	0.78
27	1.85	44	43	39	150	462	620	80	7.00	2.00	1.00	0.78
28	2.10	56	41	41	152	483	598	72	6.80	1.90	1.00	0.78
29	2.40	71	38	41	155	504	565	66	4.60	1.85	0.98	0.78
30	2.65	73	36	41	156	522	531	60	6.40	1.80		0.78.
31		68		38	160		500		6.20	1.75		0.78
Total	25.17	641.00	2,029	1,125	2,990	9,262	19,537	6,593	485.30	109.00	37.98	26.90
Mean	0.84	20.7	67.6	36.3	96.4	309	630	220	15.65	3.56	1.31	0.87
Max.	2.65	73	96	56	160	522	703	446	52	6.00	1.70	0.98
Min.	0.38	2.85	36	22	31	167	500	60	4.60	1.75	0.98	0.78
Runoff - mcm.	2.175	55.382	175.306	97.200	258.336	800.669	1,687.997	569.636	41.930	9.417	3.281	2.324

WATER YEAR 1955 : Max. 703 Min. 0.38 Mean 117 Annual Runoff 3,703.221 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	18.00	8.25	703				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
LOP BURI RIVER BASIN

Lop Buri River at Wat Pho Ngam, Lop Buri (L.2)

Location: Lat 14° – 47' – 43" N, Long 100° – 36' – 35" E, on left bank infront of Wat Pho Ngam, one kilometer west of railway station, Amphoe Muang, Lop Buri.

Drainage Area: Flood plain.

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 – 62

Rating Operation:

Period of Rating: 1950 – 51
Rated by Float: –
Rated by Current Meter: 1950 – 51

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 good. Stage – discharge relation used is defined by discharge measurements made during 1950. No upstream state diversions for irrigation.

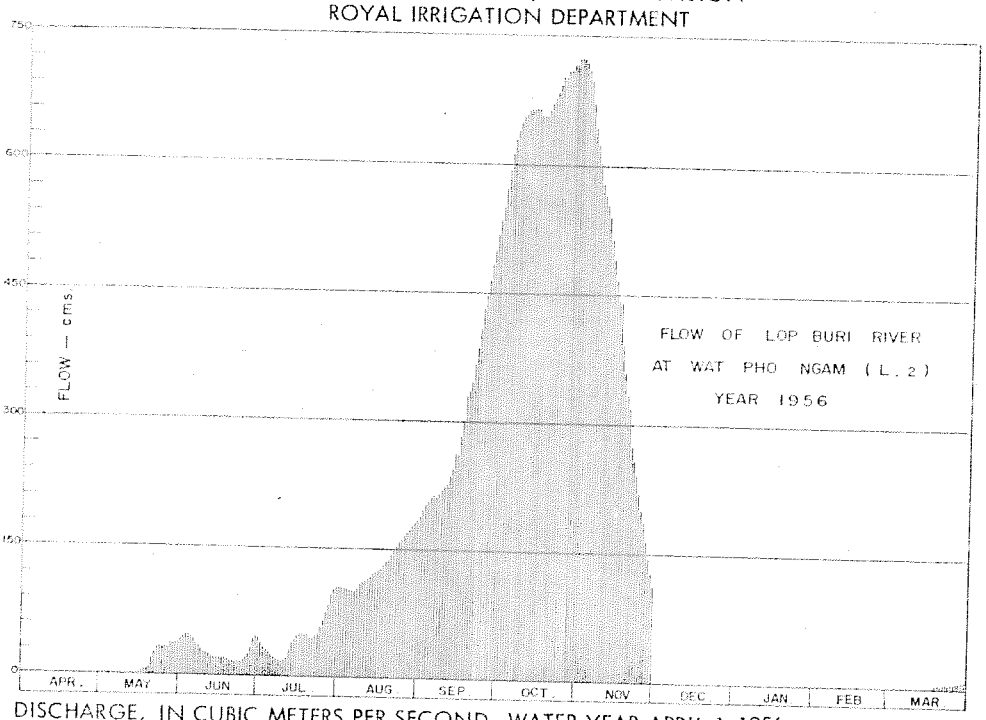
Remarks: No gage – height record for Dec. 1 to Jan. 20.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.27	2.33	4.72	4.81	5.91	6.73	8.03	8.27			2.43	2.33
2	.27	.34	.79	.59	.89	.78	.07	.26			.42	.33
3	.27	.35	.84	.48	.88	.82	.10	.24			.40	.33
4	.27	.35	.84	.34	.87	.85	.13	.20			.39	.33
5	.26	.36	.80	.27	.85	.88	.15	.17			.38	.33
6	2.26	2.36	4.71	4.13	5.84	6.90	8.17	8.14			2.37	2.33
7	.26	.36	.58	.01	.85	.88	.18	.11			.37	.32
8	.26	.36	.46	3.94	.87	.91	.19	.08			.36	.32
9	.25	.35	.32	.90	.95	.93	.19	.05			.36	.32
10	.25	.35	.24	.85	.99	.95	.20	.03			.36	.32
11	2.25	2.34	4.21	3.92	6.01	6.96	8.20	7.99			2.36	2.32
12	.25	.35	.13	4.01	.04	7.02	.20	.94			.36	.32
13	.25	.39	.04	.31	.07	.06	.20	.88			.36	.34
14	.24	.44	3.98	.62	.10	.15	.20	.83			.36	.35
15	.24	.71	.97	.76	.13	.14	.19	.77			.36	.39
16	2.24	2.84	3.99	4.84	6.15	7.23	8.19	7.68			2.36	2.44
17	.24	3.05	.99	.91	.18	.31	.19	.59			.35	.43
18	.23	.23	.97	.92	.22	.42	.20	.51			.35	.71
19	.23	.37	.93	.91	.25	.45	.21	.43			.35	.84
20	.23	.50	.84	.88	.30	.49	.22	.36			.35	.91
21	2.23	3.92	3.84	4.79	6.35	7.54	8.23	7.16		2.55	2.35	3.01
22	.23	4.26	.78	.77	.40	.60	.24	.12		.55	.34	.08
23	.22	.43	.73	.84	.44	.66	.25	.03		.54	.34	.03
24	.22	.44	.78	.89	.50	.73	.25	6.92		.45	.34	2.98
25	.22	.43	.87	5.07	.52	.78	.26	.80		.44	.34	.96
26	2.21	4.42	3.98	5.23	6.55	7.85	8.26	6.68		2.44	2.34	3.00
27	.23	.39	4.19	.44	.58	.87	.27	.53		.44	.34	.10
28	.25	.56	.47	.62	.61	.91	.27	.54		.46	.34	.15
29	.29	.55	.74	.78	.65	.95	.28	.16		.47		.29
30	.32	.57	.83	.85	.68	.99	.28	5.97		.46		.40
31		.64		.90	.70		.28			.45		.44
Mean	2.25	3.24	4.25	4.74	6.20	7.29	8.20	7.50			2.36	2.67
Max.	2.32	4.64	4.84	5.90	6.70	7.99	8.28	8.27			2.43	3.44
Min.	2.21	2.33	3.73	3.85	5.83	6.73	8.03	5.97			2.34	2.32

WATER YEAR 1956 : Max. 8.28 m. Min. 2.21 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.74	0.86	44	42	107	190	555	718			1.15	0.86
2	0.74	0.88	47	39	105	197	575	710			1.10	0.86
3	0.74	0.90	49	35	105	205	590	695			1.00	0.86
4	0.74	0.90	49	31	104	208	613	665			0.98	0.86
5	0.72	0.92	47	29	103	212	628	645			0.96	0.86
6	0.72	0.92	43	25	102	215	645	620			0.94	0.86
7	0.72	0.92	38	22	101	217	650	598			0.94	0.84
8	0.72	0.92	35	21	104	217	658	580			0.92	0.84
9	0.70	0.90	31	20	110	220	658	565			0.92	0.84
10	0.70	0.90	28	18	112	224	665	555			0.92	0.84
11	0.70	0.88	27	20	114	226	665	536			0.92	0.84
12	0.70	0.90	25	22	116	237	665	513			0.92	0.84
13	0.70	0.98	23	30	119	244	665	487			0.92	0.88
14	0.68	1.20	22	40	121	263	665	466			0.92	0.90
15	0.68	2.55	21	45	124	281	658	443			0.92	0.98
16	0.68	5.40	22	49	126	281	658	441			0.92	1.20
17	0.68	9.50	22	51	128	301	658	382			0.90	1.15
18	0.66	7.30	21	52	132	331	665	358			0.90	2.55
19	0.66	8.70	20	51	135	334	673	334			0.90	3.40
20	0.66	11	18	50	139	352	680	314			0.90	4.10
21	0.66	20	18	47	144	367	688	270		1.75	0.90	5.10
22	0.66	29	17	46	149	385	695	256		1.75	0.88	5.80
23	0.64	34	16	49	153	405	705	252		1.55	0.88	5.30
24	0.64	34	17	51	160	429	705	219		1.15	0.88	4.80
25	0.64	34	19	59	162	447	710	200		1.20	0.88	4.60
26	0.62	34	22	67	166	466	710	187		1.20	0.88	5.00
27	0.66	33	27	77	170	483	718	164		1.20	0.88	6.10
28	0.70	38	35	87	175	500	718	143		1.30	0.88	6.50
29	0.78	38	45	96	179	518	725	126		1.35		7.90
30	0.84	38	48	103	182	536	725	111		1.30		9.00
31		41		106	185		725			1.25		9.80
Total	20.88	424.43	896	1,487	4,130	9,464	20,707	12,533			26.01	95.26
Mean	0.70	13.69	29.87	47.97	133	313	668	418			0.95	3.07
Max.	0.84	41	49	106	185	536	725	718			1.15	9.80
Min.	0.62	0.86	16	18	101	190	555	111			0.88	0.84
Runoff — mcm.	1.804	36.690	77.414	128.477	356.832	817.690	1,789.085	1,082.851			2.247	8.230

WATER YEAR 1956 : Max. 725 Min. 0.62 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 31	18.00	8.28	725				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
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: 14,522 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 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: 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 year without actual ratings.

Overbank Flow Conditions: No overbank flow.

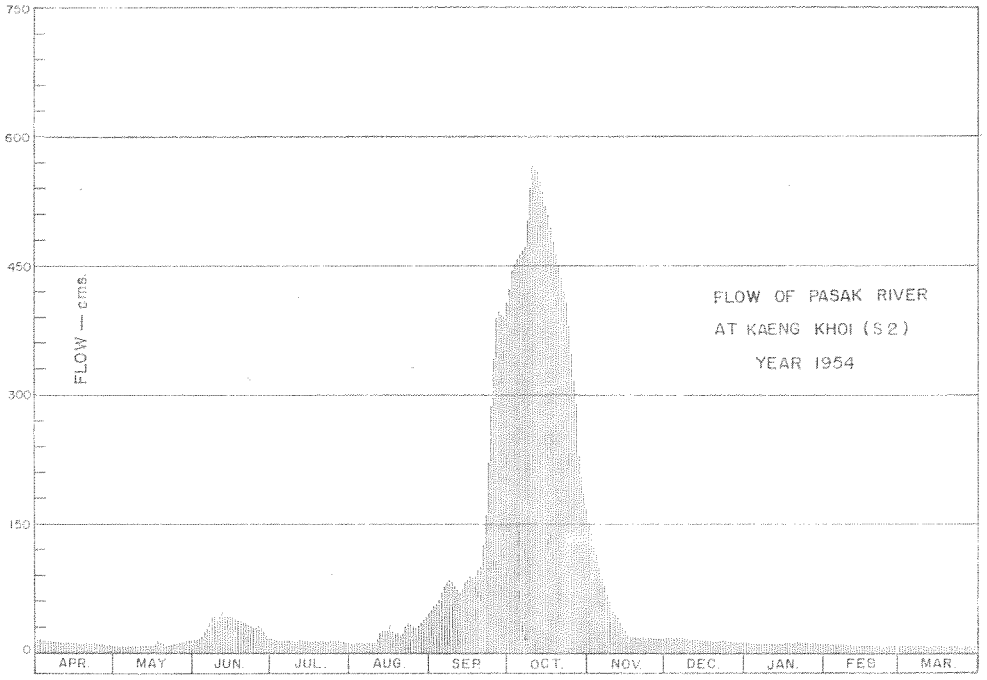
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1948 and 1959. Natural flow of stream affected by diversions for irrigation which undefined.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.40	7.10	7.37	7.43	7.21	8.12	12.35	9.43	7.44	7.25	7.16	7.08
2	.39	.10	.39	.40	.21	.19	.60	.28	.43	.24	.16	.07
3	.36	.09	.45	.36	.23	.22	.67	.12	.43	.24	.16	.07
4	.34	.09	.53	.35	.22	.28	.74	8.96	.43	.24	.15	.08
5	.32	.09	.66	.32	.21	.40	.79	.74	.42	.23	.15	.08
6	7.31	7.08	7.73	7.36	7.21	8.51	12.84	8.62	7.42	7.23	7.15	7.08
7	.30	.08	.87	.33	.22	.58	.90	.52	.41	.22	.15	.07
8	.29	.08	.97	.34	.23	.61	13.23	.37	.41	.22	.14	.07
9	.29	.08	.99	.33	.23	.57	.59	.20	.40	.22	.14	.07
10	.27	.08	.91	.32	.28	.51	.84	.06	.40	.23	.14	.06
11	7.27	7.09	7.99	7.32	7.45	8.46	13.80	8.00	7.39	7.23	7.13	7.06
12	.26	.11	8.07	.37	.66	.41	.75	7.96	.38	.22	.13	.06
13	.25	.10	7.97	.36	.69	.46	.66	.86	.38	.21	.12	.05
14	.24	.10	.99	.34	.68	.57	.53	.75	.36	.21	.12	.05
15	.23	.09	.99	.33	.69	.62	.35	.62	.34	.21	.12	.05
16	7.23	7.09	7.97	7.32	7.81	8.67	13.26	7.53	7.34	7.22	7.11	7.05
17	.22	.22	.94	.33	.65	.64	.07	.49	.33	.23	.11	.04
18	.22	.31	.91	.31	.59	.68	12.92	.43	.33	.23	.10	.04
19	.22	.27	.89	.31	.59	.77	.75	.48	.32	.24	.10	.05
20	.21	.15	.88	.30	.55	.82	.66	.47	.32	.24	.10	.05
21	7.23	7.11	7.85	7.29	7.59	9.11	12.47	7.47	7.31	7.25	7.09	7.04
22	.22	.13	.80	.29	.80	.57	.31	.47	.31	.25	.09	.04
23	.22	.18	.80	.29	.85	10.30	.17	.46	.30	.25	.09	.04
24	.20	.19	.78	.34	.81	.96	11.84	.46	.29	.25	.08	.04
25	.20	.21	.78	.36	.78	11.55	.52	.46	.29	.24	.08	.04
26	7.18	7.24	7.80	7.34	7.77	12.02	11.24	7.46	7.28	7.24	7.07	7.03
27	.15	.25	.77	.33	.81	.09	10.88	.45	.27	.24	.07	.03
28	.13	.26	.67	.31	.88	.04	.28	.45	.27	.23	.07	.03
29	.12	.30	.54	.28	.93	.02	.03	.44	.26	.22		.06
30	.11	.31	.46	.25	.95	.20	9.82	.44	.25	.20		.25
31		.33		.22	8.05		.53		.25	.17		.27
Mean	7.25	7.16	7.79	7.33	7.57	10.40	12.40	7.95	7.35	7.23	7.12	7.07
Max.	7.40	7.33	8.07	7.43	8.05	12.20	13.84	9.43	7.44	7.25	7.16	7.27
Min.	7.11	7.08	7.37	7.22	7.21	8.12	9.53	7.44	7.25	7.17	7.07	7.03

WATER YEAR 1954 : Max. 13.84 m. Min. 7.03 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	8.00	15	16	11	50	421	150	17	12	9.50	7.60
2	15	8.00	15	15	11	55	444	137	16	11	9.50	7.40
3	14	7.80	17	14	11	57	451	124	16	11	9.50	7.40
4	14	7.80	19	14	11	62	458	111	16	11	9.25	7.60
5	13	7.80	24	13	11	70	462	94	16	11	9.25	7.60
6	13	7.60	27	14	11	78	467	85	16	11	9.25	7.60
7	13	7.60	35	14	11	83	473	78	16	11	9.25	7.40
8	13	7.60	41	14	11	85	505	68	16	11	9.00	7.40
9	13	7.60	42	14	11	82	541	56	15	11	9.00	7.40
10	12	7.60	38	13	12	76	560	47	15	11	9.00	7.20
11	12	7.80	42	13	17	74	562	43	15	11	8.75	7.20
12	12	8.25	47	15	24	71	557	41	15	11	8.75	7.20
13	12	8.00	41	14	26	74	548	35	15	11	8.50	7.00
14	11	8.00	42	14	25	82	535	28	14	11	8.50	7.00
15	11	7.80	42	14	26	85	517	23	14	11	8.50	7.00
16	11	7.80	41	13	32	89	508	19	14	11	8.25	7.00
17	11	11	39	14	24	87	489	18	14	11	8.25	6.80
18	11	13	38	13	22	90	475	18	14	11	8.00	6.80
19	11	12	36	13	22	97	459	18	13	11	8.00	7.00
20	11	9.25	36	13	20	100	450	18	13	11	8.00	7.00
21	11	8.25	34	13	22	123	432	18	13	12	7.80	6.80
22	11	8.75	31	13	31	162	417	18	13	12	7.80	6.80
23	11	10	31	13	34	227	404	17	13	12	7.80	6.80
24	10	10	30	14	32	289	372	17	13	12	7.60	6.80
25	10	11	30	14	30	345	342	17	13	11	7.60	6.80
26	10	11	31	14	29	389	315	17	12	11	7.40	6.60
27	9.25	12	29	14	32	396	281	17	12	11	7.40	6.60
28	8.75	12	25	13	35	391	225	17	12	11	7.40	6.60
29	8.50	13	20	12	39	389	205	17	12	11		7.20
30	8.25	13	17	12	40	406	184	17	12	10		12
31		14		11	46		158		12	9.75		12
Total	345.75	293.30	955	420	720	4,666	13,221	1,383	437	343.75	236.80	279.60
Mean	11.5	9.46	31.8	13.5	23.2	155	426	46.1	14.1	11.1	8.46	7.41
Max.	15	14	47	16	46	406	566	150	17	12	9.50	12
Min.	8.25	7.60	15	11	11	50	158	17	12	9.75	7.40	6.60
Runoff - mcm.	29.873	25.341	82.512	36.288	62.208	403.142	1,142.294	119.491	37.757	29.700	20.459	19.837

WATER YEAR 1954 : Max. 566 Min. 6.60 Mean 63.7 Annual Runoff 2,008.904 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	15.00	13.86	568				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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: 14,522 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 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: 1914 to date.

Rating Operation:

Period of Rating: 1945, 1947 – 48, 1956 – 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 year without actual ratings.

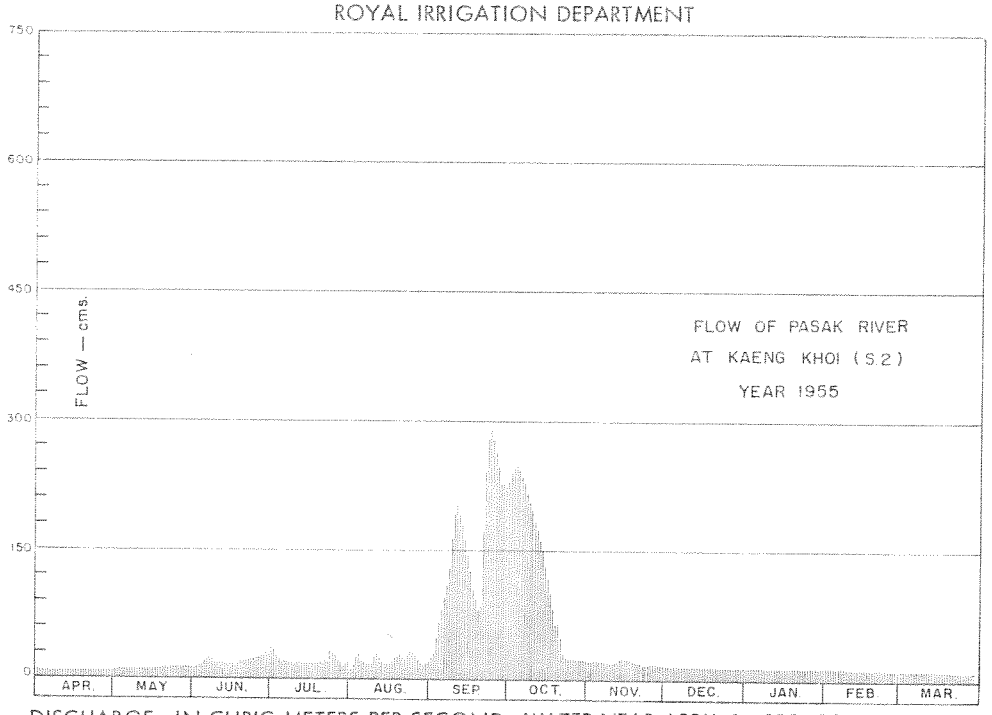
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1958 and 1959. Natural flow of stream affected by diversions for irrigation which undefined.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.19	7.14	7.32	7.92	7.20	7.64	10.30	7.58	7.40	7.34	7.30	7.23
2	.13	.20	.35	.84	.46	.79	.43	.58	.40	.33	.30	.23
3	.07	.24	.38	.66	.66	8.05	.50	.57	.40	.33	.29	.23
4	.04	.27	.44	.62	.74	.33	.54	.57	.40	.33	.29	.23
5	.04	.18	.56	.56	.56	.51	.49	.55	.40	.33	.29	.22
6	7.03	7.18	7.74	7.54	7.53	8.72	10.38	7.54	7.39	7.32	7.29	7.22
7	.03	.17	.65	.51	.46	.80	.29	.53	.39	.32	.29	.22
8	.03	.18	.59	.50	.42	9.12	.18	.52	.39	.32	.29	.21
9	.04	.19	.50	.50	.49	.51	.05	.50	.39	.32	.28	.21
10	.05	.19	.48	.50	.67	.91	9.92	.47	.39	.32	.28	.20
11	7.05	7.19	7.47	7.49	7.76	10.02	9.80	7.51	7.38	7.32	7.27	7.19
12	.05	.20	.48	.48	.64	9.91	.68	.53	.38	.32	.27	.19
13	.04	.20	.50	.45	.51	.75	.52	.59	.38	.31	.27	.18
14	.04	.20	.52	.44	.46	.55	.39	.62	.38	.31	.27	.18
15	.04	.20	.46	.45	.46	.52	.22	.63	.38	.31	.27	.17
16	7.05	7.21	7.45	7.47	7.46	9.09	8.99	7.63	7.37	7.31	7.26	7.17
17	.05	.23	.47	.48	.57	8.87	.74	.60	.37	.30	.26	.16
18	.06	.26	.51	.48	.67	.72	.51	.55	.37	.31	.26	.16
19	.06	.24	.53	.50	.70	.54	.29	.51	.37	.31	.26	.16
20	.06	.25	.55	.52	.74	.63	.34	.48	.36	.31	.26	.15
21	7.06	7.29	7.56	7.53	7.69	9.61	7.95	7.47	7.36	7.30	7.25	7.14
22	.07	.26	.57	.56	.61	10.53	.75	.43	.36	.30	.25	.14
23	.07	.29	.59	.54	.73	.87	.64	.43	.36	.30	.25	.13
24	.07	.31	.62	.81	.81	11.00	.63	.42	.36	.30	.25	.13
25	.08	.32	.64	.77	.77	10.82	.62	.42	.35	.30	.24	.12
26	7.08	7.31	7.66	7.73	7.73	10.63	7.62	7.42	7.35	7.30	7.24	7.12
27	.10	.31	.69	.60	.61	.47	.61	.41	.35	.30	.24	.11
28	.10	.32	.72	.50	.50	.26	.60	.41	.35	.30	.24	.11
29	.11	.30	.82	.43	.45	.29	.59	.41	.34	.30	.24	.10
30	.12	.31	.92	.47	.47	.27	.59	.41	.34	.30		.10
31		.32		.54	.53		.58		.34	.30		.09
Mean	7.07	7.24	7.56	7.56	7.58	9.45	8.96	7.51	7.37	7.31	7.27	7.17
Max.	7.19	7.32	7.92	7.92	7.81	11.00	10.54	7.63	7.40	7.34	7.30	7.23
Min.	7.03	7.14	7.32	7.43	7.20	7.64	7.58	7.41	7.34	7.30	7.24	7.09

WATER YEAR 1955 : Max. 11.00 m. Min. 7.03 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	9.00	13	38	10	24	227	21	15	14	13	11
2	8.75	10	14	33	17	30	239	21	15	14	13	11
3	7.40	11	15	24	24	46	245	21	15	14	13	11
4	6.80	11	17	25	28	65	249	21	15	14	13	11
5	6.80	10	21	21	21	78	240	20	15	14	13	11
6	6.60	10	28	20	19	93	234	20	15	13	13	11
7	6.60	9.75	24	19	17	106	226	19	15	13	13	11
8	6.60	10	22	18	16	124	216	19	15	13	13	11
9	6.80	10	16	18	18	157	204	18	15	13	12	11
10	7.00	10	18	18	25	192	193	18	15	13	12	10
11	7.00	10	18	18	29	202	182	19	15	13	12	10
12	7.00	10	18	18	24	192	171	19	15	13	12	10
13	6.80	10	18	17	19	176	158	22	15	13	12	10
14	6.80	10	19	17	17	160	147	23	15	13	12	10
15	6.80	10	17	17	17	141	132	23	15	13	12	9.75
16	7.00	11	17	18	17	122	114	23	15	13	12	9.75
17	7.00	11	18	18	21	104	94	22	15	13	12	9.50
18	7.20	12	19	18	25	93	78	20	15	13	12	9.50
19	7.20	11	19	18	26	80	62	19	15	13	12	9.50
20	7.20	12	20	19	28	86	65	18	14	13	12	9.25
21	7.20	13	21	19	26	165	40	18	14	13	12	9.00
22	7.40	12	24	21	22	248	28	16	14	13	12	9.00
23	7.40	13	22	20	27	280	24	16	14	13	12	8.75
24	7.40	13	23	32	32	292	25	16	14	13	12	8.75
25	7.60	13	24	29	29	275	23	16	14	13	11	8.50
26	7.60	13	24	27	27	257	25	16	14	13	11	8.50
27	8.00	13	26	22	27	242	22	16	14	13	11	8.25
28	8.00	13	27	19	18	223	22	16	14	13	11	8.25
29	8.25	13	32	16	16	226	22	16	14	13	11	8.00
30	8.50	13	38	18	18	224	22	16	14	13		8.00
31		13		20	19		21		14	13		7.80
Total	220.70	349.75	661	652	674	4,703	3,747	568	453	408	351*	299.05
Mean	7.36	11.3	21.0	21.0	21.7	157	121	18.9	14.6	13.2	12.1	9.65
Max.	10	13	38	38	32	292	249	23	15	14	13	11
Min.	6.60	9.00	13	16	10	24	21	16	14	13	11	7.80
Runoff - mcm.	19.068	30.218	54.518	56.333	58.234	406.339	323.741	49.075	39.139	35.251	30.326	25.838

WATER YEAR 1955 : Max. 292 Min. 6.60 Mean 35.7 Annual Runoff 1,128.082 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 24	09.00	11.05	297				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Saraburi (S.2)

Location: Lat 14° – 35' – 52" N, Long 101° – 00' – 23" E, on right bank 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.

Drainage Area: 14,522 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +5.84 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: 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 year without actual ratings.

Overbank Flow Conditions: No overbank flow.

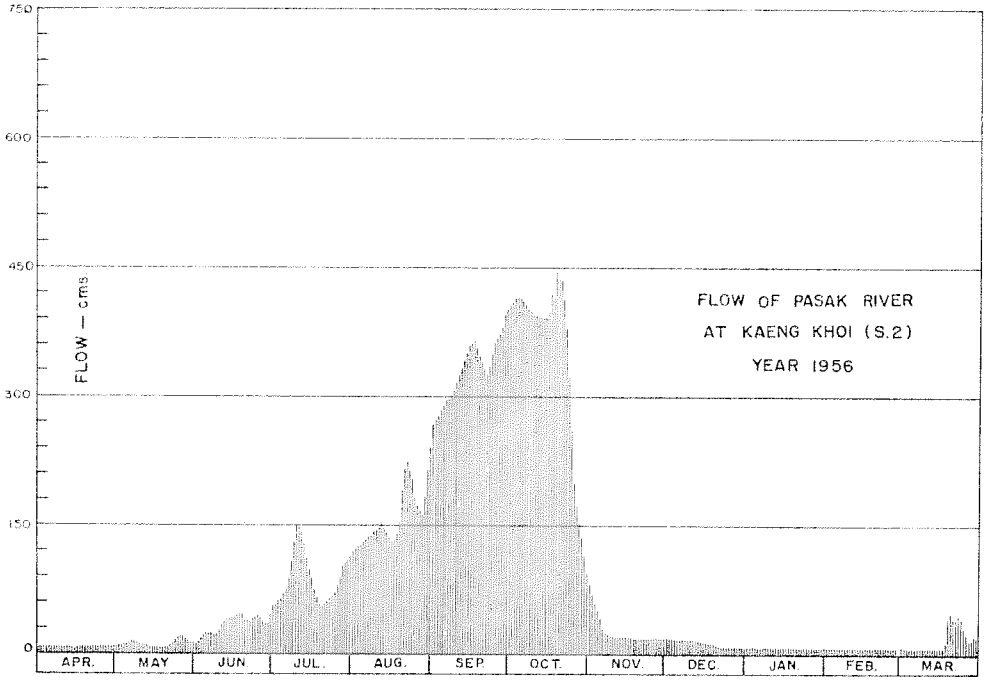
General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1948 and 1959. Natural flow of stream affected by diversions for irrigation which undefined.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.08	7.13	7.28	8.20	9.07	10.73	12.18	8.54	7.47	7.09	7.05	7.02
2	.08	.20	.39	.23	.10	.79	.23	.35	.47	.09	.05	.02
3	.07	.22	.55	.29	.13	.82	.27	.24	.47	.09	.04	.02
4	.07	.22	.61	.31	.16	.90	.28	.12	.46	.08	.04	.02
5	.06	.26	.64	.41	.20	.93	.27	7.96	.45	.08	.04	.02
6	7.06	7.27	7.65	8.46	9.23	11.03	12.23	7.75	7.45	7.08	7.04	7.02
7	.05	.38	.64	.65	.26	.04	.17	.68	.44	.08	.04	.02
8	.05	.30	.61	.89	.27	.09	.13	.63	.44	.07	.04	.02
9	.04	.30	.62	9.17	.32	.13	.10	.59	.44	.07	.04	.01
10	.04	.28	.72	.43	.36	.23	.07	.55	.42	.07	.04	.01
11	7.03	7.22	7.85	9.43	9.38	11.32	12.05	7.53	7.42	7.07	7.04	7.01
12	.03	.20	.93	.31	.46	.43	.04	.52	.40	.07	.04	.01
13	.02	.17	.97	.14	.37	.53	.03	.52	.37	.07	.03	.01
14	.02	.13	.98	8.96	.32	.60	.03	.51	.36	.06	.03	.01
15	6.96	.09	.98	.80	.28	.69	.02	.51	.34	.06	.03	.01
16	7.04	7.07	8.00	8.63	9.20	11.71	12.12	7.51	7.32	7.06	7.03	7.01
17	.05	.05	.03	.47	.23	.74	.33	.50	.30	.06	.03	.01
18	.05	.05	.05	.34	.31	.66	.46	.50	.27	.06	.03	.31
19	.06	.04	.06	.23	.43	.55	.58	.50	.24	.06	.03	8.00
20	.07	.06	7.91	.16	.78	.48	.49	.50	.19	.05	.03	.07
21	7.07	7.10	* 7.94	* 8.23	10.16	11.39	12.49	7.50	7.15	7.05	7.03	7.94
22	.08	.17	* .92	* .27	.27	.34	.16	.49	.12	.05	.03	.94
23	.08	.32	* .95	* .32	.14	.40	11.85	.49	.11	.05	.03	8.02
24	.09	.43	* .99	* .37	.01	.56	.12	.49	.11	.05	.03	7.96
25	.09	.54	8.05	* .40	9.75	.72	10.44	.49	.11	.05	.03	.74
26	7.10	7.58	7.97	8.48	9.68	11.78	9.87	7.48	7.10	7.05	7.02	7.53
27	.10	.53	.92	.61	.61	.82	.57	.48	.10	.05	.02	.37
28	.11	.48	.87	.82	.56	.92	.44	.48	.10	.05	.03	.42
29	.12	.40	.86	.89	.83	12.07	.21	.47	.10	.05		.53
30	.12	.32	8.08	.95	10.19	.11	8.99	.47	.09	.05		.47
31		.31		9.00	.43		.71		.09	.05		.33
Mean	7.09	7.25	7.83	8.64	9.53	11.41	11.54	7.64	7.29	7.06	7.03	7.32
Max.	7.12	7.58	8.08	9.43	10.43	12.11	12.58	8.54	7.47	7.09	7.05	8.07
Min.	6.96	7.04	7.28	8.18	9.07	10.73	8.71	7.47	7.09	7.05	7.02	7.01

WATER YEAR 1956 : Max. 12.58 m. Min. 6.96 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.60	8.75	12	56	120	267	405	80	18	7.80	7.00	6.40
2	7.60	10	15	58	122	272	409	66	18	7.80	7.00	6.40
3	7.40	11	19	62	125	275	413	59	18	7.80	6.80	6.40
4	7.40	11	22	64	127	283	414	50	17	7.60	6.80	6.40
5	7.20	12	24	71	130	286	413	41	17	7.60	6.80	6.40
6	7.20	12	24	74	133	295	409	28	17	7.60	6.80	6.40
7	7.00	15	24	88	136	296	404	25	17	7.60	6.80	6.40
8	7.00	15	22	106	135	301	400	23	17	7.40	6.80	6.40
9	6.80	15	23	128	141	305	397	22	17	7.40	6.80	6.20
10	6.80	12	27	150	144	314	394	20	16	7.40	6.80	6.20
11	6.60	11	34	150	146	323	392	19	16	7.40	6.80	6.20
12	6.60	10	39	140	153	333	391	19	15	7.40	6.80	6.20
13	6.40	9.75	41	126	145	343	390	19	15	7.40	6.60	6.20
14	6.40	8.75	42	111	141	349	390	19	14	7.20	6.60	6.20
15	5.40	7.80	42	99	157	358	389	19	14	7.20	6.60	6.20
16	6.80	7.40	43	86	130	360	399	19	13	7.20	6.60	6.20
17	7.00	7.00	45	75	133	363	419	18	13	7.20	6.60	6.20
18	7.00	7.00	46	66	140	355	413	18	12	7.20	6.60	13
19	7.20	6.80	47	58	150	345	443	18	11	7.20	6.60	43
20	7.40	7.20	38	55	180	338	434	18	10	7.00	6.60	47
21	7.40	8.00	* 39	* 58	214	329	434	18	8.75	7.00	6.60	39
22	7.60	9.75	* 38	* 61	224	325	405	18	8.50	7.00	6.60	39
23	7.60	13	* 40	* 64	215	330	371	18	8.25	7.00	6.60	44
24	7.80	16	* 42	* 68	201	346	304	18	8.25	7.00	6.60	41
25	7.80	20	45	* 70	177	361	240	18	8.25	7.00	6.60	28
26	8.00	21	41	76	171	367	188	18	8.00	7.00	6.40	19
27	8.00	19	38	85	165	370	162	18	8.00	7.00	6.40	15
28	8.25	18	35	100	161	380	151	18	8.00	7.00	6.60	16
29	8.50	15	35	106	185	394	131	18	8.00	7.00		19
30	8.50	13	48	110	217	398	114	18	7.80	7.00		18
31		13		114	259		92		7.80	7.00		14
Total	218.25	366.20	1,030	2,735	4,956	9,961	10,726	780	394.60	225.40	187.20	502.00
Mean	7.27	11.8	34.3	88.2	159	332	346	26.0	12.7	7.27	6.68	16.2
Max.	8.50	21	48	150	259	398	443	80	18	7.80	7.00	47
Min.	5.40	6.80	12	55	120	267	92	18	7.80	7.00	6.40	6.20
Runoff - mcm.	18.857	31.640	89.002	236.304	428.470	860.630	926.726	67.392	34.093	19.474	16.174	43.373

WATER YEAR 1956 : Max. 443 Min. 5.40 Mean 87.8 Annual Runoff 2,770.126 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.19	09.00	12.58	443				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PASAK RIVER BASIN

Pasak River at Ban Huai Rai, Phetchabun (S.6)

Location: Lat 16°- 49' - 54" N, Long 101°- 16' - 04" E, at Ban Huai Rai 50 meters upstream side of Lom Sak proposed weir site 16 kilometers upstream from district office of Amphoe Lom Sak, Phetchabun.

Drainage Area: 1,006 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +140.50 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: 1956 - 60

Rating Operation:

Period of Rating: 1956 - 59
Rated by Float: -
Rated by Current Meter: 1956 - 59

Stability of Channel Regimes: Stable. no shifting adjustment mean hourly discharge are used for flow computation.

Overbank Flow Conditions: No overbank flow .

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

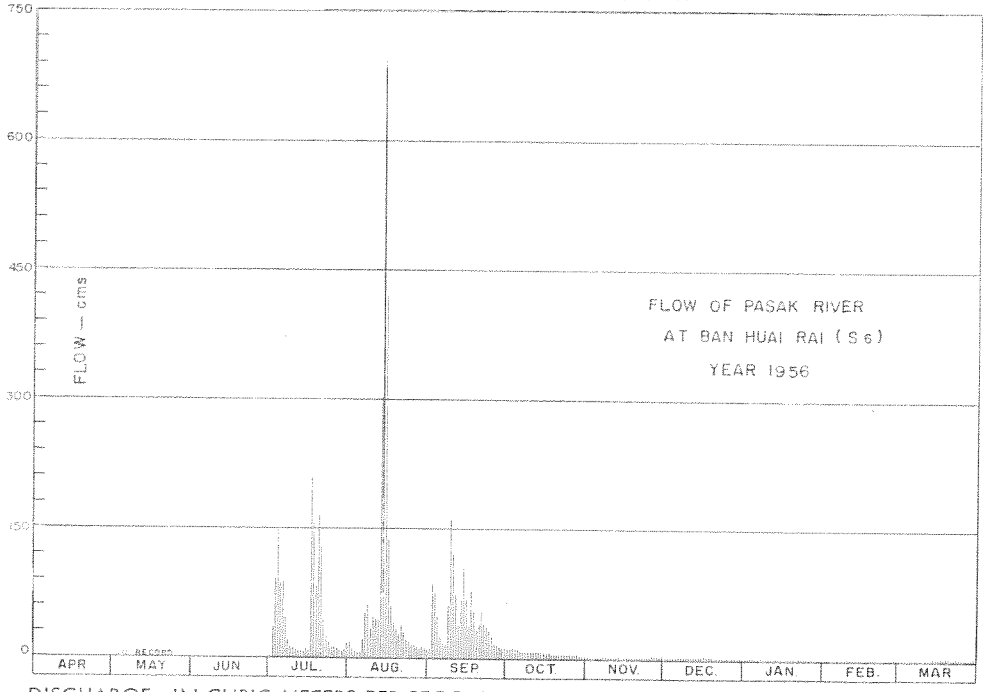
Remarks: Gage - height record began on July 1. * mean hourly discharge.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				147.10	147.80	147.50	147.50	147.05	146.94	146.89	146.83	146.77
2				.96	.40	149.20	.49	.04	.94	.89	.83	.77
3				149.00	.37	.01	.54	.04	.94	.89	.83	.77
4				150.12	.33	148.21	.52	.04	.94	.89	.83	.77
5				148.72	.34	147.90	.46	.04	.94	.87	.83	.77
6				149.23	147.65	147.72	147.36	147.04	146.93	146.87	146.83	146.77
7				148.21	148.60	.69	.34	.01	.93	.86	.83	.77
8				147.75	.81	148.16	.34	.00	.93	.85	.82	.77
9				.58	.06	150.00	.34	.00	.93	.85	.81	.77
10				.48	.50	149.32	.33	.00	.92	.85	.81	.77
11				147.42	148.44	148.49	147.33	147.00	146.92	146.85	146.81	146.84
12				.37	.00	.23	.32	.00	.92	.84	.81	.85
13				.31	151.10	.65	.30	.00	.91	.84	.81	.85
14				.27	154.40	149.50	.28	.00	.91	.84	.81	.83
15				.50	151.03	148.36	.26	.00	.90	.84	.81	.85
16				147.38	149.17	148.30	147.27	147.00	146.90	146.84	146.80	146.85
17				.55	148.57	149.06	.26	146.99	.90	.84	.80	.85
18				150.35	.32	148.34	.25	.99	.90	.83	.79	.88
19				148.99	.07	.14	.23	.98	.90	.83	.79	.97
20				150.26	.03	.30	.21	.97	.90	.83	.79	.92
21				148.92	148.27	148.61	147.20	146.95	146.90	146.83	146.79	146.85
22				.08	.06	.15	.20	.95	.90	.83	.79	.81
23				147.97	147.87	.28	.20	.95	.90	.83	.79	.81
24				.73	.79	.16	.18	.95	.89	.83	.79	.81
25				.60	.68	147.89	.15	.95	.89	.83	.78	.78
26				147.61	147.64	147.71	147.13	146.95	146.89	146.83	146.78	146.78
27				.51	.65	.64	.12	.94	.89	.83	.77	.77
28				.46	.52	.60	.12	.94	.89	.83	.77	.76
29				.37	.59	.57	.12	.94	.89	.83		.77
30				.43	.53	.52	.10	.94	.89	.83		.77
31				.81	.50		.09		.89			.77
Mean				148.06	148.36	148.31	147.27	146.99	146.91	146.84	146.80	146.81
Max.				150.35	154.40	150.00	147.54	147.05	146.94	146.89	146.83	146.97
Min.				147.10	147.33	147.50	147.09	146.94	146.89	146.83	146.77	146.77

WATER YEAR 1956 : Max. 154.40 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				5.80	19	11	11	2.50	1.40	0.95	0.65	0.30
2				24	9.00	86	11	2.40	1.40	0.95	0.65	0.30
3				74	8.40	75	13	2.40	1.40	0.95	0.65	0.30
4				151	7.60	54	11	2.40	1.40	0.95	0.65	0.30
5				59	7.80	22	10	2.40	1.40	0.85	0.65	0.30
6				88	20	17	8.20	2.40	1.30	0.85	0.65	0.30
7				34	53	16	7.80	2.10	1.30	0.85	0.65	0.30
8				17	63	32	7.80	2.00	1.30	0.75	0.60	0.30
9				13	28	* 161	7.80	2.00	1.30	0.75	0.55	0.30
10				11	48	93	7.60	2.00	1.20	0.75	0.55	0.30
11				9.40	45	47	7.60	2.00	1.20	0.75	0.55	0.70
12				8.40	26	35	7.40	2.00	1.20	0.70	0.55	0.75
13				7.20	* 216	55	7.00	2.00	1.10	0.70	0.55	0.65
14				6.40	* 696	105	6.60	2.00	1.10	0.70	0.55	0.65
15				11	* 213	41	6.20	2.00	1.00	0.70	0.55	0.65
16				8.60	84	38	6.40	2.00	1.00	0.70	0.50	0.65
17				12	51	78	6.20	1.90	1.00	0.70	0.50	0.75
18				* 210	39	40	6.00	1.90	1.00	0.65	0.45	0.90
19				* 62	29	32	5.60	1.80	1.00	0.65	0.45	1.70
20				* 165	27	38	5.20	1.70	1.00	0.65	0.45	1.20
21				* 73	32	53	5.00	1.50	1.00	0.65	0.45	0.75
22				29	28	32	5.00	1.50	1.00	0.65	0.45	0.55
23				25	20	37	5.00	1.50	1.00	0.65	0.45	0.55
24				17	19	32	4.60	1.50	0.95	0.65	0.45	0.55
25				13	15	22	4.00	1.50	0.95	0.65	0.40	0.35
26				13	14	16	3.80	1.50	0.95	0.65	0.35	0.35
27				11	14	14	3.40	1.40	0.95	0.65	0.30	0.30
28				10	11	13	3.40	1.40	0.95	0.65	0.30	0.25
29				8.40	13	12	3.40	1.40	0.95	0.65		0.30
30				9.60	12	11	3.00	1.40	0.95	0.65		0.30
31				19	11		2.90		0.95	0.65		0.30
Total				1,203	1,887	1,300	201.70	56.50	34.60	22.60	14.50	16.45
Mean				39	61	43	6.51	1.88	1.12	0.73	0.52	0.53
Max.				210	696	161	12	2.50	1.40	0.95	0.65	1.70
Min.				3.00	7.60	11	2.90	1.40	0.95	0.65	0.30	0.30
Runoff - mcm.				103.939	163.037	112.200	17.427	4.882	2.989	1.953	1.253	1.421

WATER YEAR 1956 : Max. 696 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 14	07.00	155.34	825				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MAE KHONG RIVER BASIN

Nam Un at Phanna Nikhom, Sakhon 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.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +156.27 m. (M.S.L.)

Bench Mark: B.M. of Survey Department.

Location: Near the district office of Amphoe Phanna Nikhom.
Elevation: +164.085 m. (M.S.L.)

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

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

Period of Available Gage Records: 1955 to date.

Rating Operation:

Period of Rating: 1956, 1962 - 63
Rated by Float: -
Rated by Current Meter: 1956, 1962 - 63

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

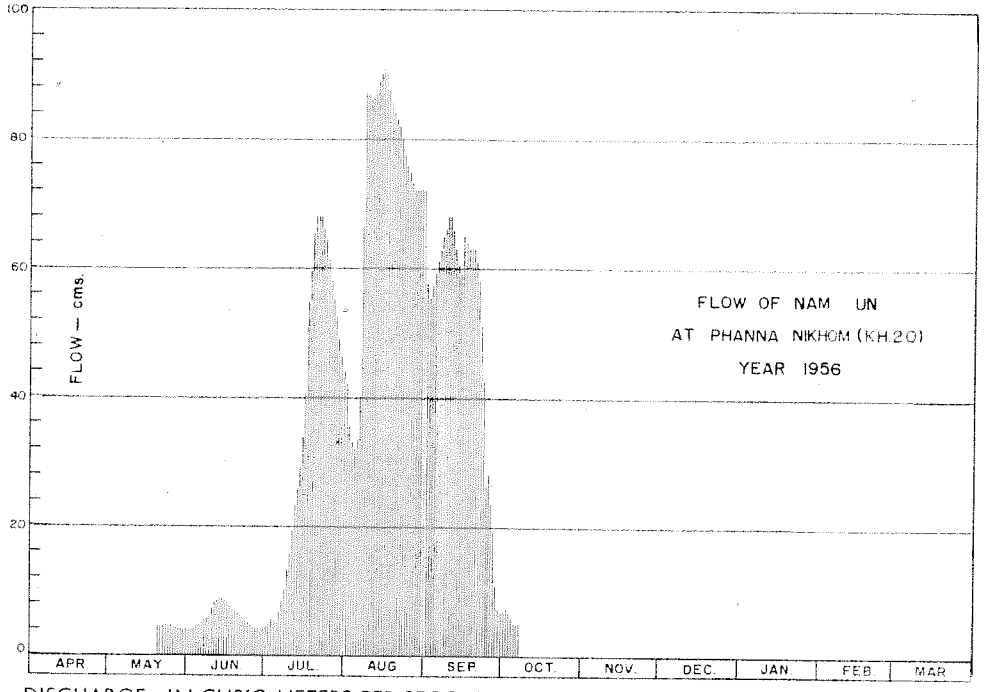
General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1956. For drought period natural flow of stream affected by diversions for irrigation. No adjustment made for virgin flow.

Remarks: No gage - height record Apr. 1 to May 19, Oct. 8 to Mar.31. Prior to May 19, record poor.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			157.42	157.47	159.14	159.65	157.67					
2			.43	.51	158.91	.57	.65					
3			.43	.57	.87	.58	.59					
4			.47	.56	.85	.60	.55					
5			.48	.55	.87	.65	.46					
6			157.52	157.67	159.08	159.67	157.43					
7			.57	.79	.95	.69	.42					
8			.59	.89	160.17	.69						
9			.62	158.07	.17	.68						
10			.71	.22	.15	.67						
11			157.77	158.40	160.15	159.66						
12			.80	.52	.16	.65						
13			.82	.65	.19	.65						
14			.81	.77	.21	.66						
15			.79	.93	.23	.67						
16			157.76	159.16	160.21	159.67						
17			.71	.49	.17	.67						
18			.69	.60	.12	.67						
19			.67	.71	.10	.66						
20		157.45	.65	.77	.09	.60						
21		157.46	157.62	159.77	160.07	159.50						
22		.48	.58	.77	.03	.37						
23		.48	.55	.72	159.98	.16						
24		.48	.51	.68	.96	158.82						
25		.46	.47	.63	.92	.61						
26		157.44	157.44	159.55	159.89	158.47						
27		.43	.44	.45	.87	.42						
28		.42	.44	.35	.87	157.89						
29		.41	.44	.30	.86	.77						
30		.41	.43	.26	.86	.72						
31		.41		.20	.86							
Mean			157.59	158.80	159.84	159.29						
Max.			157.82	159.77	160.23	159.69						
Min.			157.42	157.47	158.85	157.72						

WATER YEAR 1956 : Max. 160.23 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			4.10	4.60	42	56	5.90					
2			4.20	5.00	34	55	7.40					
3			4.20	5.60	33	57	6.80					
4			4.60	5.50	32	59	5.20					
5			4.70	5.40	33	61	5.10					
6			5.10	6.80	40	63	4.90					
7			5.60	8.40	76	65	4.80					
8			5.80	9.90	87	66						
9			6.20	13	87	68						
10			7.40	16	85	68						
11			8.20	20	86	65						
12			8.60	23	87	62						
13			8.90	26	89	60						
14			8.80	30	90	59						
15			8.40	35	91	65						
16			8.10	42	90	64						
17			7.40	55	87	63						
18			7.10	60	85	65						
19			6.80	65	84	63						
20		4.60	6.60	68	83	61						
21		4.50	6.20	68	82	58						
22		4.70	5.70	68	80	48						
23		4.70	5.40	66	77	40						
24		4.50	5.00	64	76	26						
25		4.30	4.80	61	75	28						
26		4.20	4.30	58	73	21						
27		4.10	4.30	54	72	19						
28		4.00	4.30	50	72	8.30						
29		4.00	4.30	48	72	7.10						
30		4.00	4.20	46	72	6.70						
31		4.00		44	72							
Total			179.10	1,131.20	2,245	1,505						
Mean			5.97	36.5	72.4	50.2						
Max.			8.90	68	91	68						
Min.			4.10	4.60	32	6.70						
Runoff – mcm.			15.474	97.736	193.968	130.041						

WATER YEAR 1956 : Max. 91 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 15	06.00	160.23	91				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHI RIVER BASIN

Chi River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 15°- 47' - 06" N, Long 104°- 08' - 36" E, on left bank, 1.5 kilometers south of office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: 47,391 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m. (M.S.L.)

Bench Mark: B.M. of Survey Department No.97

Location: 15 meters east of 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 mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951 - 52
Rated by Float: -
Rated by Current Meter: 1951 - 52

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

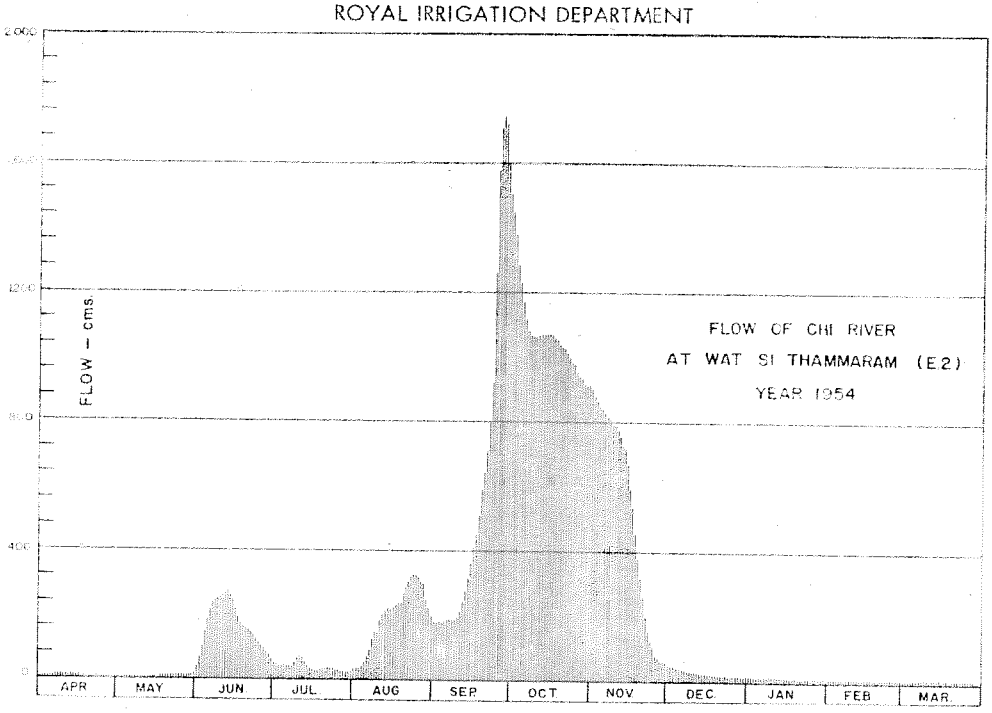
Overbank Flow Conditions: Overbank flow was observed at elevation +125.37 m. (M.S.L.) but not included for flow computation.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.42	118.38	119.35	119.55	119.22	121.21	126.59	125.84	119.56	118.80	118.57	118.53
2	.43	.38	.84	.45	.50	.18	.54	.80	.52	.80	.57	.53
3	.43	.38	120.20	.42	.32	.22	.45	.75	.48	.79	.57	.53
4	.44	.38	.80	.42	.34	.17	.38	.71	.43	.78	.57	.52
5	.44	.38	121.19	.46	.56	.22	.32	.68	.37	.78	.57	.52
6	118.44	118.38	121.57	119.42	119.84	121.27	126.26	125.65	119.31	118.77	118.56	118.52
7	.45	.38	.77	.37	120.20	.38	.21	.62	.26	.77	.56	.52
8	.45	.38	.87	.37	.57	.25	.16	.58	.23	.76	.56	.52
9	.45	.38	.92	.35	.81	.24	.18	.53	.21	.76	.56	.52
10	.45	.38	.94	.75	121.04	.30	.18	.51	.20	.76	.55	.52
11	118.45	118.38	122.03	119.86	121.25	121.52	126.10	125.47	119.17	118.76	118.55	118.51
12	.45	.38	.13	.80	.44	.78	.19	.37	.15	.75	.55	.51
13	.45	.38	.14	.62	.55	122.08	.19	.29	.12	.75	.55	.51
14	.45	.39	.04	.41	.53	.47	.19	.23	.08	.75	.55	.51
15	.45	.40	121.80	.23	.58	.84	.19	124.97	.03	.75	.55	.51
16	118.45	118.41	121.54	119.13	121.62	123.24	126.19	124.63	119.00	118.73	118.55	118.50
17	.45	.44	.27	.07	.70	.66	.18	.35	118.98	.72	.54	.50
18	.45	.48	.00	.08	.79	124.00	.17	125.56	.97	.70	.54	.50
19	.44	.49	120.98	.16	.98	.44	.15	122.97	.96	.69	.54	.49
20	.43	.50	.96	.21	122.07	.78	.13	.37	.96	.67	.54	.49
21	118.43	118.52	120.90	119.26	122.25	125.13	126.11	121.67	118.95	118.66	118.53	118.49
22	.42	.54	.81	.27	.42	.51	.09	.27	.95	.64	.53	.49
23	.41	.56	.90	.27	.55	.80	.06	120.99	.94	.63	.53	.49
24	.40	.58	.58	.23	.62	126.27	.05	.57	.92	.62	.53	.48
25	.40	.60	.45	.17	.61	.69	.01	.24	.91	.61	.53	.48
26	118.40	118.58	120.30	119.12	122.56	126.80	125.98	119.96	118.89	118.60	118.53	118.47
27	.39	.55	.20	.08	.41	.83	.95	.92	.87	.60	.53	.46
28	.39	.56	.04	.06	.29	.81	.93	.81	.86	.59	.53	.45
29	.39	.59	118.87	.05	121.93	.72	.90	.74	.84	.58		.44
30	.38	.67	.71	.05	.65	.65	.84	.69	.82	.58		.43
31		.83		.09	.41		.89		.81	.58		.42
Mean	118.43	118.47	121.00	119.32	121.31	123.54	126.15	125.49	119.09	118.70	118.55	118.47
Max.	118.45	118.83	122.14	119.86	122.62	126.83	126.59	125.84	119.56	118.80	118.57	118.53
Min.	118.38	118.38	118.71	119.05	119.22	121.17	125.89	119.69	118.81	118.58	118.53	118.42

WATER YEAR 1954 : Max. 126.83 m. Min. 7.40 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.40	6.60	41	52	34	182	1,438	892	55	18	11	10
2	7.60	6.60	71	46	38	179	1,378	876	50	18	11	10
3	7.60	6.60	96	44	39	183	1,289	859	48	18	11	10
4	7.86	6.60	145	44	40	178	1,213	845	45	18	11	9.94
5	7.86	6.60	180	47	53	183	1,162	836	41	18	11	9.94
6	7.86	6.60	216	44	71	187	1,117	827	39	17	11	9.94
7	8.12	6.60	236	41	96	188	1,081	818	36	17	11	9.94
8	8.12	6.60	246	41	126	186	1,062	806	35	17	11	9.94
9	8.12	6.60	251	52	146	185	1,062	792	34	17	11	9.94
10	8.12	6.60	253	65	167	190	1,062	787	33	17	11	9.94
11	8.12	6.60	262	72	186	211	1,068	776	32	17	11	9.68
12	8.12	6.60	272	68	205	238	1,068	748	31	17	11	9.68
13	8.12	6.60	273	56	214	267	1,068	728	30	17	11	9.68
14	8.12	6.80	263	43	222	310	1,068	715	28	17	11	9.68
15	8.12	7.00	239	35	217	352	1,068	660	26	17	11	9.68
16	8.12	7.20	213	30	221	400	1,068	600	25	16	11	9.42
17	8.12	7.86	187	28	229	455	1,062	525	24	16	10	9.42
18	8.12	8.90	163	28	238	502	1,056	442	24	15	10	9.42
19	7.86	9.16	161	32	237	568	1,044	367	24	15	10	9.16
20	7.80	9.42	159	34	260	626	1,032	299	24	14	10	9.16
21	7.60	9.94	154	36	286	693	1,020	246	23	14	10	9.16
22	7.40	10	146	37	304	787	1,009	187	23	13	10	9.16
23	7.20	11	136	37	319	876	992	153	23	13	10	9.16
24	7.00	12	126	35	326	1,123	976	126	22	13	10	8.90
25	7.00	12	114	32	325	1,558	965	99	22	12	10	8.90
26	7.00	12	104	30	320	1,700	951	79	21	12	10	8.64
27	6.80	11	96	28	305	1,739	938	76	20	12	10	8.38
28	6.80	11	85	28	290	1,713	929	69	20	12	10	8.12
29	6.80	12	75	27	252	1,596	916	64	19	12		7.86
30	6.60	14	62	27	222	1,510	912	61	19	12		7.60
31		19		29	200		912		18	12		7.40
Total	229.28	276.08	5,023	1,248	6,190	19,065	32,977	15,558	912	473	296	282.84
Mean	7.64	8.90	167	40.2	200	635	1,064	512	29.4	15.2	10.6	9.28
Max.	8.12	19	273	72	326	1,739	1,438	892	55	18	11	10
Min.	6.60	6.60	41	27	34	178	912	61	18	12	10	7.40
Runoff - mcm.	19.810	23.853	433.987	107.827	534.816	1,647.216	2,849.213	1,326.931	78.797	40.867	25.574	24.869

WATER YEAR 1954 : Max. 1,739 Min. 6.60 Mean 225 Annual Runoff 7,113.761 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	15.00	126.84	1,752				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHI RIVER BASIN

Chi River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 15°- 47' - 06" N, Long 104°- 08' - 36" E, on left bank 1.5 kilometers south of office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: 47,391 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m. (M.S.L.)

Bench Mark: B.M. of Survey Department No.97

Location: 15 meters east of 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 mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951 - 52
Rated by Float: -
Rated by Current Meter: 1951 - 52

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

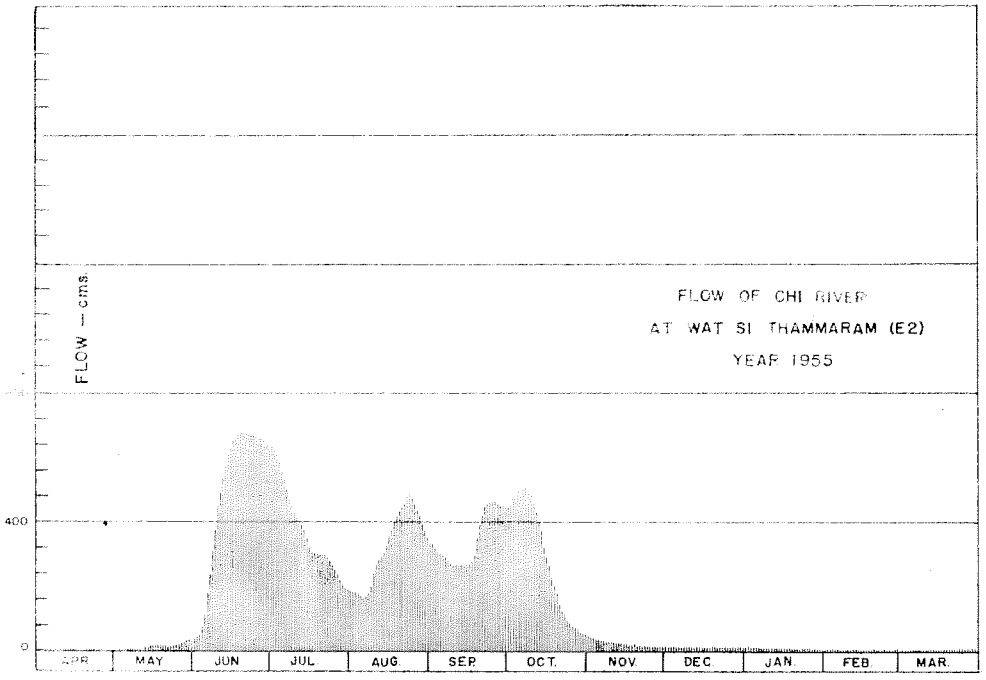
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.42	118.40	119.27	124.85	121.24	122.74	123.59	119.45	118.68	118.58	118.43	118.39
2	.42	.40	.45	.81	.22	.65	.65	.42	.67	.57	.43	.39
3	.42	.40	.55	.73	.22	.56	.79	.38	.67	.57	.43	.39
4	.42	.40	.80	.56	.20	.49	.92	.34	.66	.56	.42	.39
5	.43	.40	120.41	.37	.11	.44	124.00	.29	.66	.56	.42	.39
6	118.44	118.40	121.10	124.18	121.00	122.37	124.04	119.25	118.65	118.56	118.42	118.39
7	.44	.40	.55	123.94	.06	.25	.06	.19	.65	.55	.42	.39
8	.43	.40	122.00	.78	.17	.15	.06	.16	.64	.55	.41	.39
9	.43	.40	.95	.64	.33	.11	123.98	.14	.64	.54	.41	.39
10	.43	.40	123.58	.43	.75	.09	.88	.10	.64	.53	.41	.39
11	118.43	118.41	123.87	123.32	122.03	122.09	123.72	119.06	118.63	118.53	118.41	118.39
12	.43	.41	124.21	.24	.20	.09	.48	.34	.62	.52	.40	.39
13	.43	.49	.44	.15	.33	.09	.24	.03	.62	.52	.40	.39
14	.42	.61	.64	.00	.44	.07	122.96	.00	.62	.51	.40	.39
15	.42	.75	.79	122.71	.60	.07	.66	118.98	.62	.51	.40	.38
16	118.42	118.83	124.01	122.56	122.88	122.08	122.30	118.92	118.61	118.50	118.40	118.38
17	.42	.84	.98	.45	123.05	.13	.01	.88	.61	.50	.40	.38
18	.41	.87	125.05	.46	.24	.34	121.65	.87	.61	.49	.40	.38
19	.41	.90	.07	.41	.37	.80	.48	.85	.61	.49	.40	.38
20	.41	.84	.07	.39	.51	123.12	.26	.81	.61	.48	.40	.38
21	118.41	118.79	125.07	122.38	123.62	123.38	120.75	118.80	118.61	118.48	118.40	118.38
22	.41	.73	.06	.36	.71	.59	.54	.79	.60	.47	.39	.38
23	.41	.73	.05	.29	.84	.67	.38	.77	.60	.47	.39	.38
24	.40	.75	.02	.17	.86	.70	.20	.75	.60	.46	.39	.38
25	.40	.81	.01	.02	.80	.70	.04	.74	.60	.45	.39	.38
26	118.40	118.92	124.97	121.92	123.70	123.69	119.95	118.73	118.60	118.45	118.39	118.38
27	.40	119.04	.95	.79	.57	.64	.91	.72	.60	.44	.39	.38
28	.40	.14	.93	.64	.38	.62	.85	.71	.60	.44	.39	.38
29	.40	.18	.89	.49	.18	.61	.70	.70	.60	.44	.39	.38
30	.40	.21	.87	.34	.00	.59	.62	.69	.59	.43		.38
31		.22		.29	122.85		.54		.58	.43		.38
Mean	118.42	118.69	123.55	122.92	122.53	122.76	122.26	118.98	118.62	118.50	118.40	118.38
Max.	118.44	119.22	125.07	124.85	123.86	123.70	124.06	119.45	118.68	118.58	118.43	118.39
Min.	118.40	118.40	119.27	121.29	121.00	122.07	119.54	118.69	118.58	118.43	118.39	118.38

WATER YEAR 1955 : Max. 125.07 m. Min. 118.38 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.40	7.00	37	629	185	340	446	46	14	12	7.60	6.80
2	7.40	7.00	41	621	183	330	454	44	14	11	7.60	6.80
3	7.40	7.00	54	617	182	320	473	42	14	11	7.60	6.80
4	7.40	7.00	66	588	181	312	491	40	14	11	7.40	6.80
5	7.40	7.00	117	558	175	300	502	38	14	11	7.40	6.80
6	7.40	7.00	172	529	163	299	508	36	14	11	7.40	6.80
7	7.40	7.00	216	496	158	286	511	33	14	11	7.40	6.80
8	7.60	7.00	259	471	178	275	511	32	13	11	7.20	6.80
9	7.40	7.00	365	457	195	270	499	31	13	10	7.20	6.80
10	7.40	7.00	449	425	234	268	485	29	13	10	7.20	6.80
11	7.60	7.20	484	411	262	268	463	28	13	10	7.20	6.80
12	7.60	7.20	534	400	280	268	451	27	13	9.94	7.00	6.80
13	7.60	9.16	568	389	294	269	400	26	13	9.94	7.00	6.80
14	7.40	12	602	371	306	268	366	25	13	9.68	7.00	6.80
15	7.40	17	627	336	324	266	331	24	13	9.68	7.00	6.60
16	7.40	19	649	320	357	267	291	22	12	9.42	7.00	6.60
17	7.40	19	662	308	372	272	260	21	12	9.42	7.00	6.60
18	7.20	20	676	304	400	295	224	20	12	9.16	7.00	6.60
19	7.20	21	680	305	417	347	207	20	12	9.16	7.00	6.60
20	7.20	19	680	341	435	385	186	18	12	8.90	7.00	6.60
21	7.20	18	680	300	450	418	141	18	12	8.90	7.00	6.60
22	7.20	16	678	298	461	446	123	18	12	8.64	6.80	6.60
23	7.20	16	672	280	480	456	110	17	12	8.64	6.80	6.60
24	7.00	17	670	277	482	460	95	17	12	8.38	6.80	6.60
25	7.00	18	668	261	474	460	85	16	12	8.12	6.80	6.60
26	7.00	22	660	251	460	459	78	16	12	8.12	6.80	6.60
27	7.00	27	657	238	445	452	76	16	12	7.86	6.80	6.60
28	7.00	31	655	223	418	450	72	15	12	7.86	6.80	6.60
29	7.00	33	645	208	395	448	62	15	12	7.86	6.80	6.60
30	7.00	34	642	194	371	446	56	15	12	7.60		6.60
31		34		189	355		51		12	7.60		6.60
Total	220.32	486.56	14,556	11,580	10,078	10,405	8,989	765	394	293.88	205.60	207.40
Mean	7.34	15.7	485	373	325	347	290	25.5	12.7	9.48	7.09	6.69
Max.	7.86	34	680	638	482	460	511	46	14	12	7.60	6.80
Min.	7.00	7.00	37	189	163	266	51	15	12	7.60	6.80	6.60
Runoff — mcm.	19.036	42.039	1,257.638	1,000.512	870.739	898.819	776.650	66.096	34.042	25.391	17.764	17.919

WATER YEAR 1955 : Max. 680 Min. 6.60 Mean 159 Annual Runoff 5,026.645 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
June 19	06.00	125.07	680				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHI RIVER BASIN

Chi River at Wat Si Thammaram, Ubon Ratchathani (E.2)

Location: Lat 15° - 47' - 06" N, Long 104° - 08' - 36" E, on left bank 1.5 kilometers south of office of Amphoe Yasothon, and 500 meters downstream from Wat Si Thammaram, Ubon Ratchathani.

Drainage Area: 47,391 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +117.00 m. (M.S.L.)

Bench Mark: B.M. of Survey Department No.97

Location: 15 meters east of 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 mean of 5 readings.

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951 - 52
Rated by Float: -
Rated by Current Meter: 1951 - 52

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: Overbank flow was observed for Sep.9 to Oct.31 but not included for flow computation.

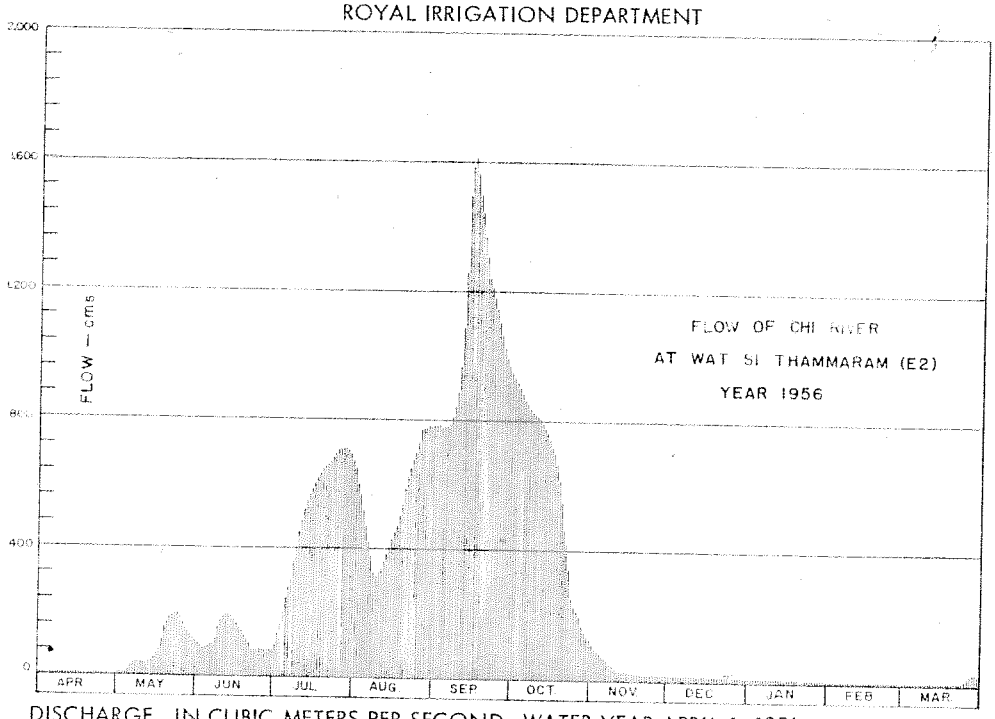
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.37	118.45	120.28	120.38	124.89	125.50	125.94	120.38	118.83	118.58	118.44	118.27
2	.37	.49	.19	.80	.66	.50	.91	.25	.83	.58	.44	.27
3	.37	.53	.08	121.14	.38	.48	.86	.15	.82	.57	.43	.27
4	.37	.65	.16	.50	.03	.48	.82	.02	.81	.57	.43	.27
5	.37	.88	.24	.85	123.70	.48	.76	119.89	.80	.56	.42	.27
6	118.37	119.26	120.29	122.13	123.36	125.54	125.72	119.77	118.80	118.56	118.42	118.27
7	.37	.39	.30	.42	122.92	.60	.68	.69	.79	.55	.42	.27
8	.37	.46	.56	.93	.60	.73	.66	.53	.79	.55	.42	.27
9	.37	.42	121.01	123.29	.54	.88	.63	.45	.78	.54	.42	.27
10	.37	.41	.18	.64	.65	126.03	.60	.33	.77	.54	.42	.27
11	118.37	119.39	121.32	123.92	122.76	126.23	125.57	119.25	118.76	118.54	118.42	118.27
12	.37	.38	.37	124.13	.97	.47	.52	.19	.75	.53	.42	.27
13	.38	.45	.34	.30	123.18	.63	.47	.13	.75	.53	.41	.27
14	.38	.49	.28	.45	.34	.71	.42	.09	.74	.52	.41	.27
15	.38	.67	.20	.57	.51	.73	.35	.05	.74	.52	.41	.27
16	118.38	119.83	121.07	124.67	123.66	126.68	125.26	119.01	118.73	118.51	118.41	118.27
17	.39	120.15	120.91	.75	.85	.65	.14	118.97	.72	.51	.41	.27
18	.39	.48	.74	.84	124.03	.59	124.93	.95	.72	.50	.41	.27
19	.39	.87	.57	.90	.38	.52	.63	.93	.71	.50	.41	.27
20	.40	121.11	.42	.96	.59	.46	.29	.89	.70	.49	.41	.27
21	118.40	121.24	120.31	124.99	124.80	126.41	123.81	118.89	118.69	118.49	118.41	118.27
22	.40	.31	.08	125.02	.98	.37	.39	.88	.69	.49	.41	.27
23	.41	.36	.00	.09	125.09	.33	122.62	.88	.67	.48	.41	.27
24	.41	.40	.01	.15	.18	.29	121.74	.87	.64	.47	.41	.28
25	.41	.24	.03	.18	.34	.23	.59	.87	.63	.47	.41	.48
26	118.41	120.99	120.03	125.21	125.45	126.17	121.52	118.87	118.62	118.47	118.41	118.81
27	.42	.81	.03	.22	.47	.12	.34	.86	.61	.46	.41	119.10
28	.42	.68	.02	.22	.47	.07	.07	.85	.60	.46	.41	.23
29	.43	.57	.00	.20	.49	.01	120.83	.85	.60	.45		.22
30	.43	.47	.09	.14	.49	125.98	.68	.84	.59	.45		.15
31		.38		.03	.49		.53		.59	.44		.04
Mean	118.39	120.01	120.50	123.94	124.20	126.13	124.14	119.25	118.72	118.51	118.42	118.44
Max.	118.43	121.40	121.37	125.22	125.49	126.73	125.94	120.38	118.83	118.58	118.44	119.23
Min.	118.37	118.45	120.00	120.38	122.54	125.48	120.53	118.84	118.59	118.44	118.41	118.27

WATER YEAR 1956 : Max. 126.73 m. Min. 118.27 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.40	8.12	102	110	645	784	934	110	19	12	7.86	4.40
2	6.40	9.16	95	145	605	784	920	100	19	12	7.86	4.40
3	6.40	10	88	176	559	778	900	95	19	11	7.60	4.40
4	6.40	14	93	209	567	778	884	83	18	11	7.60	4.40
5	6.40	21	99	244	460	778	862	74	18	11	7.40	4.40
6	6.40	36	103	272	416	795	849	66	18	11	7.40	4.40
7	6.40	42	104	304	361	812	836	61	18	11	7.40	4.40
8	6.40	47	125	363	324	852	830	51	18	11	7.40	4.40
9	6.40	44	164	407	317	908	821	46	18	10	7.40	4.40
10	6.40	45	179	452	330	976	812	40	17	10	7.40	4.40
11	6.40	42	192	491	342	1,095	804	36	17	10	7.40	4.40
12	6.40	42	196	522	367	1,300	790	33	17	10	7.40	4.40
13	6.60	46	194	547	393	1,486	776	30	17	10	7.20	4.40
14	6.60	48	188	570	413	1,583	762	29	16	9.94	7.20	4.40
15	6.60	59	181	590	435	1,609	743	27	16	9.94	7.20	4.40
16	6.60	70	169	607	455	1,546	721	26	16	9.68	7.20	4.40
17	6.60	93	155	621	481	1,510	695	24	16	9.68	7.20	4.40
18	6.80	118	140	636	507	1,438	663	23	16	9.42	7.20	4.40
19	6.80	151	126	647	559	1,354	600	23	15	9.42	7.20	4.40
20	7.00	175	114	658	593	1,290	546	21	15	9.16	7.20	4.40
21	7.00	185	105	664	629	1,240	475	21	15	9.16	7.20	4.40
22	7.00	191	88	670	662	1,205	420	21	15	9.16	7.20	4.40
23	7.20	195	82	684	684	1,170	326	21	14	8.90	7.20	4.40
24	7.20	199	83	697	704	1,138	235	20	13	8.64	7.20	4.60
25	7.20	185	84	704	740	1,095	218	20	13	8.64	7.20	8.90
26	7.20	162	84	710	770	1,056	211	20	13	8.64	7.20	18
27	7.40	146	84	712	776	1,026	194	20	13	8.38	7.20	29
28	7.40	134	83	712	776	998	169	20	12	8.38	7.20	35
29	7.60	126	82	708	781	965	148	20	12	8.12		34
30	7.60	118	88	695	781	951	134	19	12	8.12		31
31		110		672	781		122		12	7.86		27
Total	203.40	2,867.28	3,670	16,199	17,153	33,380	18,388	1,199	486	301.24	205.52	289.70
Mean	6.78	92.5	122	522	553	1,110	593	39.9	15.7	9.72	7.35	9.31
Max.	7.60	199	196	712	781	1,609	934	110	19	12	7.86	35
Min.	6.40	8.12	82	110	317	778	122	19	12	7.86	7.20	4.40
Runoff - mcm.	17.574	247.773	317.088	1,399.594	1,482.019	2,877.120	1,588.723	103.507	41.990	26.805	17.740	24.994

WATER YEAR 1956 : Max. 1,609 Min. 4.40 Mean 258 Annual Runoff 8,144.059 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 14	18.00	126.73	1,609				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHI RIVER BASIN

Chi River at Tha Khon Yang, Maha Sarakham (E.8A)

Location: Lat 16° – 13' – 51" N. Long 103° – 19' – 39" E. on right bank at bridge on highway Maha Sarakham – Kalasin, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,802 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.49 m. (M.S.L.)

Bench Mark: B.M. – H.S. No.6

Location: On left abutment of bridge.
Elevation: +147.910 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 – 57, 1965 to date.
Rated by Float: –
Rated by Current Meter: 1955 – 57, 1965 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

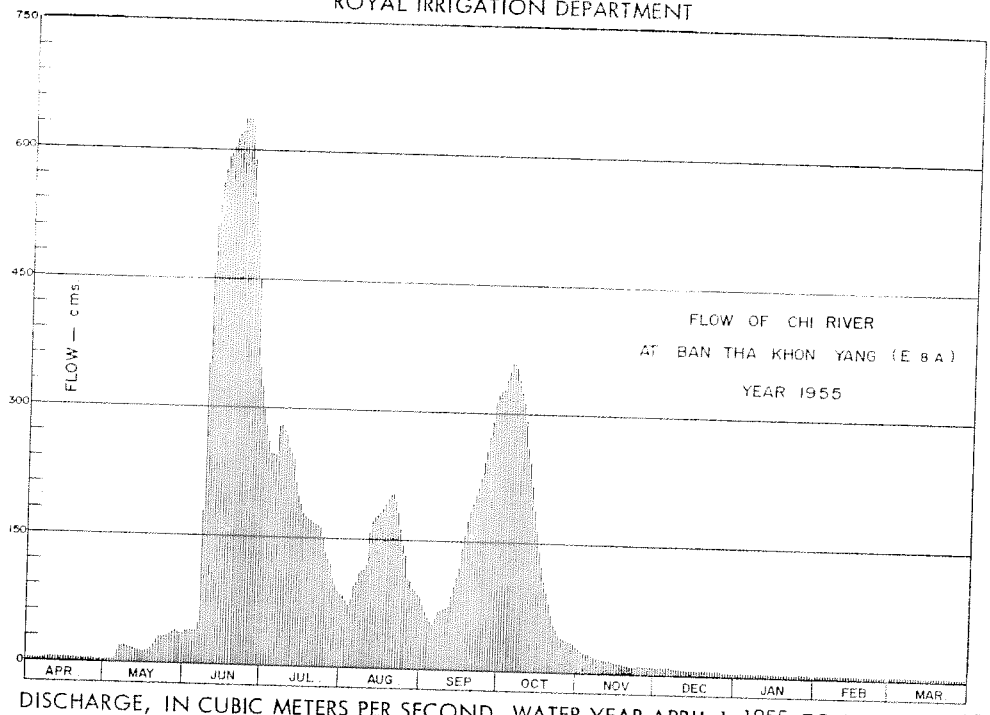
General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.66	133.71	134.39	138.40	135.50	135.38	139.04	134.39	133.92	133.75	133.70	133.77
2	.65	.71	.51	.24	.41	.22	.18	.35	.92	.75	.70	.77
3	.65	.70	.35	.04	.32	.10	.27	.30	.92	.75	.70	.76
4	.65	.70	.20	.02	.46	134.99	.38	.26	.92	.74	.70	.75
5	.66	.88	.55	.02	.72	.94	.58	.23	.92	.73	.70	.74
6	133.65	134.11	134.90	138.46	135.81	135.08	139.50	134.22	133.91	133.73	133.70	133.73
7	.66	.22	137.74	.46	136.00	.22	.15	.19	.89	.73	.72	.73
8	.70	.22	136.53	.38	.02	.28	138.99	.16	.87	.73	.72	.73
9	.72	.21	140.35	.31	.06	.29	.81	.15	.87	.73	.73	.74
10	.74	.17	.76	.11	.18	.31	.59	.12	.86	.73	.72	.74
11	133.74	134.15	141.03	138.05	136.74	135.38	138.20	134.11	133.85	133.73	133.72	133.74
12	.73	.13	.12	137.89	.92	.55	137.93	.10	.85	.73	.72	.73
13	.73	.09	.28	.56	137.05	.75	.46	.09	.85	.73	.72	.72
14	.73	.06	.36	.33	.08	.95	.14	.07	.85	.72	.71	.71
15	.75	.05	.42	.18	.12	136.18	136.78	.05	.85	.72	.71	.70
16	133.74	134.04	141.46	137.07	137.19	136.50	136.39	134.03	133.85	133.72	133.71	133.69
17	.72	.06	.52	.02	.26	.75	.15	.02	.84	.72	.71	.69
18	.70	.08	.57	136.98	.35	137.05	135.85	133.99	.83	.72	.71	.69
19	.69	.14	.59	.86	.42	.19	.61	.97	.83	.72	.71	.69
20	.68	.35	.67	.89	.42	.31	.35	.95	.83	.71	.71	.73
21	133.69	134.39	141.68	136.88	137.28	137.45	135.14	133.94	133.83	133.71	133.72	133.71
22	.69	.49	.68	.84	.03	.61	.00	.93	.82	.71	.73	.69
23	.68	.49	.61	.81	136.80	.77	134.85	.93	.81	.71	.73	.68
24	.71	.48	.54	.54	.48	138.02	.72	.94	.81	.71	.72	.67
25	.71	.61	140.97	.35	.41	.23	.69	.96	.80	.71	.72	.68
26	133.70	134.59	140.43	136.23	135.88	138.43	134.64	133.97	133.79	133.71	133.72	133.68
27	.69	.62	139.95	.14	.85	.67	.62	.96	.78	.71	.71	.68
28	.68	.66	.24	135.86	.68	.85	.60	.94	.77	.71	.71	.68
29	.68	.62	.01	.70	.66	.97	.58	.93	.77	.71	.70	.67
30	.70	.58	138.65	.60	.59	139.01	.54	.92	.76	.71		.66
31		.59		.52	.51		.46		.76	.71		.66
Mean	133.69	134.22	139.45	137.22	136.36	136.61	136.77	134.07	133.84	133.73	133.71	133.71
Max.	133.75	134.66	141.68	138.46	137.42	139.01	139.38	134.39	133.92	133.75	133.73	133.77
Min.	133.65	133.70	134.26	135.52	135.32	134.94	134.46	133.92	133.76	133.71	133.70	133.66

WATER YEAR 1955 : Max. 141.68 m. Min. 133.65 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.20	4.40	26	276	84	77	329	28	9.90	5.20	4.20	5.60
2	3.20	4.40	25	263	79	68	341	26	9.90	5.20	4.20	5.60
3	3.20	4.20	26	248	74	62	349	24	9.90	5.20	4.20	5.40
4	3.20	4.20	23	247	81	56	360	23	9.90	5.00	4.20	5.20
5	3.40	8.70	26	247	97	53	360	22	9.90	4.80	4.20	5.00
6	3.20	17	51	281	102	60	352	21	9.60	4.80	4.20	4.80
7	3.40	21	226	281	113	68	338	20	9.00	4.80	4.60	4.80
8	4.20	21	375	274	114	71	324	19	8.40	4.80	4.60	4.80
9	4.60	21	462	269	116	72	310	18	8.40	4.80	4.80	5.00
10	5.00	19	512	253	123	75	291	17	8.10	4.80	4.60	5.00
11	5.00	18	546	249	158	77	266	17	7.80	4.80	4.60	5.00
12	4.80	18	564	238	173	87	241	16	7.80	4.80	4.60	4.80
13	4.80	16	580	214	178	99	207	16	7.80	4.80	4.60	4.60
14	4.60	15	591	198	180	110	184	15	7.80	4.60	4.40	4.40
15	5.20	14	599	187	183	123	161	14	7.80	4.60	4.40	4.20
16	5.00	14	605	180	188	144	136	14	7.80	4.60	4.40	4.00
17	4.60	15	613	176	193	159	122	13	7.50	4.60	4.40	4.00
18	4.20	16	620	173	199	177	104	12	7.20	4.60	4.40	4.00
19	4.00	18	623	172	204	188	90	11	7.20	4.60	4.40	4.00
20	3.80	26	635	168	204	196	76	11	7.20	4.40	4.40	4.80
21	4.00	28	636	167	194	206	64	10	7.20	4.40	4.60	4.40
22	4.00	32	636	165	177	217	56	10	6.90	4.40	4.80	4.00
23	3.80	32	626	163	163	229	49	10	6.60	4.40	4.80	3.80
24	4.40	32	588	146	142	247	42	10	6.60	4.40	4.60	3.60
25	4.40	32	538	134	137	262	41	11	6.30	4.40	4.60	3.80
26	4.20	36	473	126	105	278	39	11	6.00	4.40	4.60	3.80
27	4.00	38	418	121	104	298	38	11	5.80	4.40	4.40	3.80
28	3.80	40	346	104	94	313	37	10	5.60	4.40	4.40	3.80
29	3.80	38	327	96	92	323	36	10	5.60	4.40	4.20	3.60
30	4.20	36	296	90	89	327	34	9.90	5.40	4.40		3.40
31		36		85	84		31		5.40	4.40		3.40
Total	123.40	675.90	12,612	5,991	4,225	4,720	5,402	459.90	236.30	144.20	129.40	136.40
Mean	4.11	21.8	420	193	136	157	174	15.3	7.61	4.64	4.45	4.39
Max.	5.20	40	636	281	204	327	360	28	9.90	5.20	4.80	5.60
Min.	3.20	4.20	23	85	74	53	31	9.90	5.40	4.40	4.20	3.40
Runoff ~ mcm.	10.662	58.398	1,089.677	517.622	365.040	407.808	466.733	39.735	20.416	12.459	11.180	11.785

WATER YEAR 1955 : Max. 636 Min. 3.20 Mean 95.5 Annual Runoff 3,011.515 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 21	18.00	141.69	637				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHI RIVER BASIN

Chi River at Tha Khon Yang, Maha Sarakham (E.8A)

Location: Lat 16°- 11' - 51" N, Long 103°- 16' - 29" E, on right bank at bridge on highway Maha Sarakham - Kalasin, Thambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,602 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +133.49 m. (M.S.L.)

Bench Mark: B.M. - R.S. No.6

Location: On left abutment of bridge.
Elevation: +147.910 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 - 57, 1965 to date.
Rated by Float: -
Rated by Current Meter: 1955 - 57, 1965 to date.

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

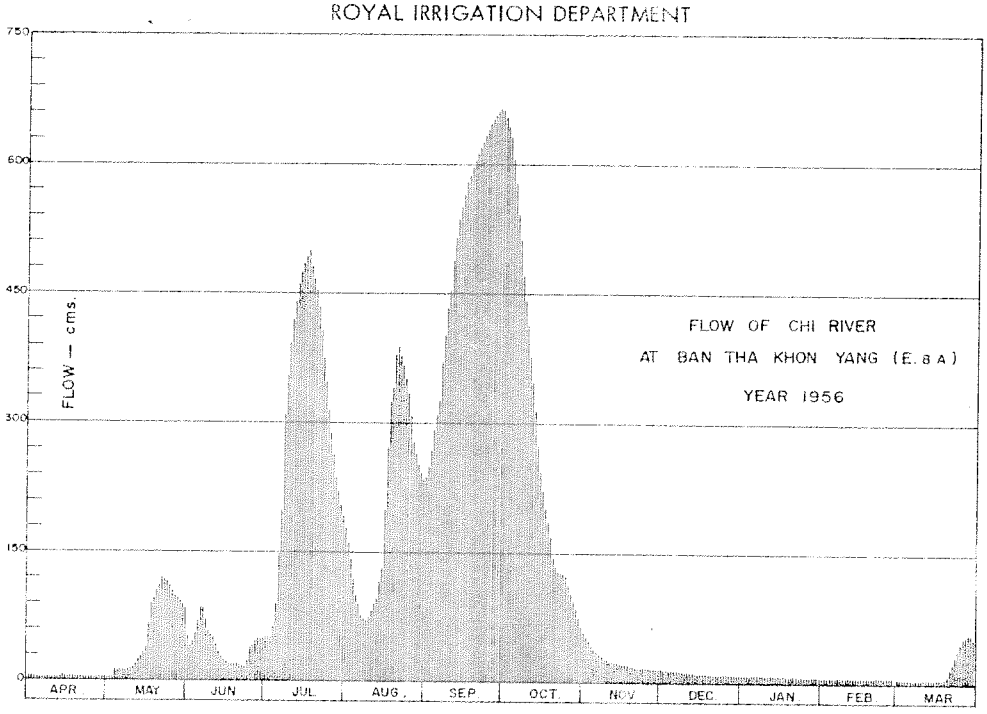
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relation used is defined by discharge measurements made during 1955 - 57. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133.67	133.67	134.86	134.82	136.98	137.92	141.99	134.93	134.04	133.87	133.80	133.73
2	.69	.67	.61	.81	.71	138.13	.91	.83	.03	.87	.79	.73
3	.67	.71	.76	.85	.39	.57	.80	.72	.02	.86	.78	.73
4	.66	.95	.90	135.08	.09	.65	.63	.62	.01	.85	.79	.73
5	.65	.96	135.24	.65	135.69	.87	.57	.54	.01	.85	.77	.73
6	133.64	133.97	135.51	136.56	135.55	139.10	141.09	134.49	134.00	133.85	133.78	133.73
7	.64	.98	.48	137.81	.35	.59	140.83	.43	133.99	.85	.78	.72
8	.64	.98	.22	138.85	.27	.92	.51	.39	.99	.85	.76	.72
9	.65	134.00	134.97	139.49	.23	140.17	.24	.33	.99	.86	.76	.72
10	.65	.05	.85	.83	.32	.42	139.96	.29	.97	.84	.77	.72
11	133.66	134.08	134.78	140.11	135.45	140.72	139.57	134.26	133.96	133.84	133.75	133.72
12	.67	.20	.59	.29	.60	.95	.21	.24	.95	.84	.75	.72
13	.71	.30	.45	.48	.70	141.13	138.83	.22	.93	.84	.75	.72
14	.74	.35	.37	.62	136.02	.27	.39	.21	.91	.84	.76	.72
15	.73	.48	.25	.68	.32	.55	137.96	.19	.90	.85	.74	.72
16	133.72	134.64	134.21	140.73	137.44	141.45	137.63	134.17	133.90	133.83	133.74	133.72
17	.72	135.14	.15	.80	138.37	.51	.32	.16	.89	.84	.74	.72
18	.71	.59	.14	.63	.99	.59	.09	.15	.89	.83	.74	.73
19	.71	.70	.15	.51	139.36	.66	136.80	.14	.89	.81	.74	.76
20	.69	.85	.16	.37	.64	.72	.47	.13	.88	.82	.74	.82
21	133.69	135.98	134.12	140.16	139.73	141.77	136.29	134.11	133.88	133.80	133.74	134.13
22	.68	136.09	.09	139.89	.61	.81	.22	.10	.88	.81	.74	.28
23	.68	.65	.09	.60	.49	.87	.16	.09	.87	.79	.74	.43
24	.66	.00	.24	.25	.34	.92	.16	.08	.87	.79	.75	.63
25	.66	136.92	.63	138.90	.11	.96	.12	.07	.87	.79	.75	.73
26	133.66	135.88	134.65	138.53	138.80	142.00	135.99	134.07	133.87	133.79	133.75	134.86
27	.66	.73	.70	.25	.44	.03	.79	.06	.87	.79	.75	.91
28	.67	.70	.78	137.90	.31	.05	.64	.05	.86	.79	.75	.94
29	.68	.62	.76	.62	.13	.07	.48	.05	.86	.79		.91
30	.67	.55	.79	.42	137.99	.05	.25	.04	.86	.79		.81
31		.42		.23	.88		.07		.86	.79		.72
Mean	133.68	134.87	134.62	138.62	137.36	140.80	138.22	134.27	133.92	133.83	133.76	134.06
Max.	133.74	136.09	135.51	140.80	139.73	142.07	141.99	134.93	134.04	133.87	133.80	134.94
Min.	133.64	133.67	134.09	134.81	135.23	137.92	135.07	134.07	133.86	133.79	133.74	133.72

WATER YEAR 1956 : Max. 142.07 m. Min. 133.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.10	4.10	54	92	176	238	652	57	16	10	8.00	5.90
2	4.70	4.10	41	51	159	255	640	52	15	10	7.70	5.90
3	4.10	5.30	48	52	138	272	625	47	13	10	7.40	5.90
4	3.80	12	56	69	120	294	602	42	14	9.50	7.70	5.90
5	3.50	13	23	95	97	312	568	38	14	9.50	7.10	5.90
6	3.20	13	87	149	80	332	535	35	14	9.50	7.40	5.90
7	3.20	13	65	198	78	376	504	33	14	9.50	7.40	5.60
8	3.20	13	72	309	74	408	467	31	14	9.50	6.80	5.60
9	3.50	14	59	366	72	435	440	28	14	10	6.80	5.60
10	3.50	16	53	399	77	458	412	27	13	9.20	7.10	5.60
11	3.80	17	50	427	84	480	374	25	13	9.20	6.50	5.60
12	4.10	22	40	445	92	516	341	24	12	9.20	6.50	5.60
13	5.30	27	34	464	97	539	309	23	12	9.20	6.50	5.60
14	6.20	29	30	479	116	556	273	23	11	9.20	6.80	5.60
15	4.80	35	25	486	134	568	241	22	11	9.50	6.20	5.60
16	5.60	45	23	492	206	578	218	21	11	8.90	6.20	5.60
17	5.60	68	22	500	272	586	198	21	11	9.20	6.20	5.60
18	5.30	91	20	480	325	592	185	20	11	8.90	6.20	5.90
19	5.30	97	20	467	354	606	164	20	11	8.30	6.20	6.80
20	4.70	106	21	453	380	614	143	19	10	8.60	6.20	8.60
21	4.70	114	19	432	389	621	132	18	10	8.00	6.20	19
22	4.40	120	18	405	377	626	128	18	10	8.30	6.20	26
23	4.40	118	18	376	366	635	126	18	10	7.70	6.20	33
24	3.80	115	24	345	353	642	125	17	10	7.70	6.50	42
25	3.80	110	42	315	333	647	122	17	10	7.70	6.50	47
26	3.80	105	42	284	306	653	114	17	10	7.70	6.50	54
27	3.80	99	46	261	277	657	102	16	10	7.70	6.50	56
28	4.10	97	50	236	267	660	94	16	10	7.70	6.50	58
29	4.40	93	50	218	255	663	85	16	10	7.70		56
30	4.20	89	50	205	243	660	73	16	10	7.70		51
31		82		192	235		64		10	7.70		47
Total	150.50	1,782.50	1,270	9,698	6,537	15,488	9,054	777	366	272.50	188.00	607.30
Mean	4.35	57.5	42.3	313	211	516	292	25.9	11.8	8.79	6.71	19.6
Max.	6.20	120	87	500	389	663	652	57	16	10	8.00	58
Min.	3.20	4.10	18	51	72	238	64	16	10	7.70	6.20	5.60
Runoff - mcm.	11.275	154.008	109.728	837.907	564.797	1,338.163	782.266	67.133	31.622	23.544	16.243	52.471

WATER YEAR 1956 : Max. 663 Min. 3.20 Mean 126 Annual Runoff 3,989.157 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 29	12.00	142.87	663				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHI RIVER BASIN

Lam Choen at Ban Nong Rua, Khon Kaen (E.15)

Location: Lat 16° – 29' – 12" N, Long 102° – 25' – 27" E, on left bank at Ban Nong Rua, Amphoe Nong Rua, Khon Kaen.

Drainage Area: 4,942 sq.km.

Type of Gage: Staff gage.

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

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 2, 5 – time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 and 5 readings.

Period of Available Gage Records: 1954, 1956 – 57

Rating Operation:

Period of Rating: 1954, 1956 – 57
Rated by Float: –
Rated by Current Meter: 1954, 1956 – 57

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. Stage – discharge relation used is defined by discharge measurements made during 1954, 1956 – 57. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

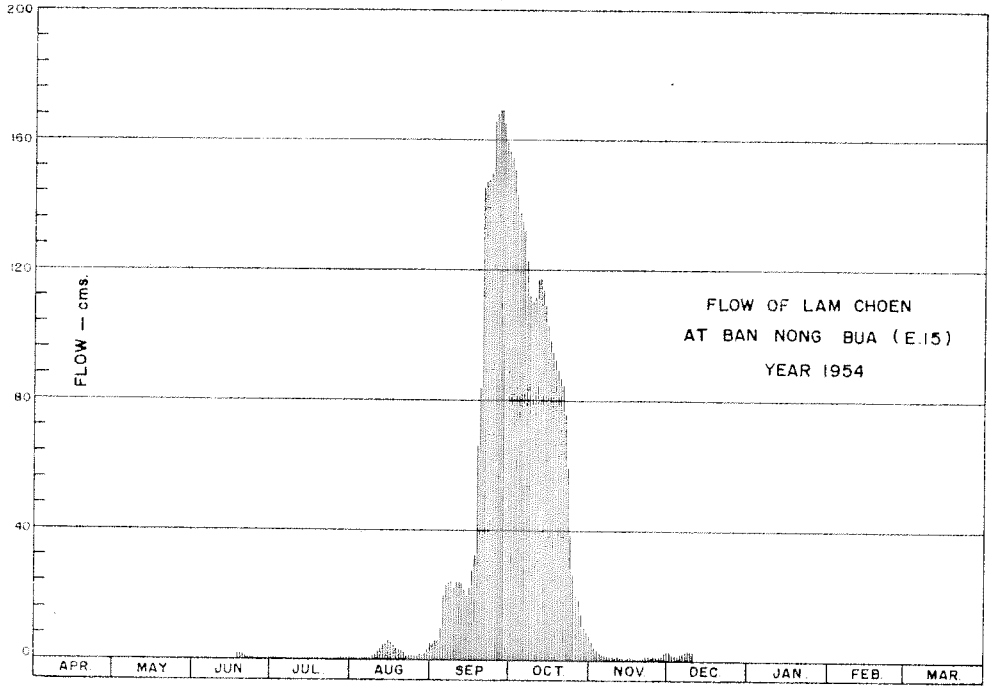
Remarks: Gage – height record began on Jun.18, 1954 and no record for period Dec.11 – Mar.31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.45	0.51	1.78	9.77	1.83	1.12			
2				.45	.48	.83	.67	.45	0.90			
3				.39	.39	.83	.33	.20	.87			
4				.32	.32	2.35	.25	.03	.87			
5				.32	.45	3.45	.17	0.96	1.05			
6				0.31	0.43	3.73	9.09	0.91	1.05			
7				.29	.35	.81	8.63	.86	.15			
8				.28	.45	.75	.42	.73	.18			
9				.28	.78	.65	.39	.72	.18			
10				.25	.89	.78	.45	.71	.17			
11				0.25	1.15	3.78	8.63	0.67				
12				.35	.41	.73	.65	.65				
13				.35	.58	.55	.50	.63				
14				.35	.66	.45	.25	.58				
15				.25	.90	.58	.12	.68				
16				0.25	1.80	4.15	7.86	0.65				
17				.25	.60	.30	.75	.58				
18			0.95	.21	.44	6.40	.68	.58				
19			.92	.21	.32	7.38	.49	.47				
20			.85	.21	.29	9.49	.44	.40				
21			0.67	0.30	1.18	9.56	7.37	0.54				
22			.55	.29	0.60	.58	6.79	.81				
23			.45	.21	.85	.68	5.54	.85				
24			.35	.21	.75	10.08	4.44	.84				
25			.35	.24	.81	.15	3.74	.82				
26			0.35	0.41	0.75	10.18	3.28	0.80				
27			.35	.48	1.00	.18	.20	.82				
28			.35	.56	0.87	9.98	2.59	.85				
29			.35	.48	1.05	.89	.23	1.18				
30			.52	.45	.24	.83	.16	.15				
31				.48	.79		.08					
Mean				0.33	1.00	5.96	6.90	0.83				
Max.				0.56	1.90	10.18	9.77	1.83				
Min.				0.21	0.32	1.78	2.08	0.40				

WATER YEAR 1954 : Max. 10.18 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.40	0.52	5.40	154	5.68	2.38			
2				0.40	0.46	5.68	151	3.75	1.50			
3				0.28	0.28	5.68	139	2.70	1.38			
4				0.14	0.14	10	137	2.02	1.38			
5				0.14	0.40	28	134	1.74	2.10			
6				0.12	0.36	25	131	1.54	2.10			
7				0.39	0.20	24	117	1.34	2.50			
8				0.08	0.40	24	111	0.96	2.60			
9				0.38	1.06	22	110	0.94	2.62			
10				0.35	1.46	24	112	0.92	2.58			
11				0.05	2.50	24	117	0.84				
12				0.20	3.55	23	117	0.80				
13				0.20	4.40	21	113	0.76				
14				0.20	4.80	20	106	0.66				
15				0.05	6.10	22	102	0.86				
16				0.05	5.50	28	97	0.80				
17				0.05	4.50	30	94	0.66				
18			1.21	0.01	3.70	65	92	0.66				
19			1.58	0.01	3.18	85	87	0.44				
20			1.76	0.01	3.06	145	86	0.30				
21			1.8	0.10	2.62	147	84	0.56				
22			1.60	0.09	0.70	148	72	1.14				
23			0.40	0.01	1.30	151	49	1.30				
24			0.20	0.01	1.00	165	32	1.26				
25			0.20	0.04	1.14	168	23	1.18				
26			0.20	0.42	1.00	169	18	1.10				
27			0.20	0.46	1.90	169	18	1.18				
28			0.20	0.52	1.38	162	12	1.30				
29			0.20	0.46	2.10	158	9.07	2.42				
30			0.54	0.46	2.86	156	8.44	2.50				
31				0.36	5.45		7.72					
Total				5.58	68.02	2,219.76	2,640.23	40.33				
Mean				0.18	2.19	73.9	85.2	1.41				
Max.				0.62	6.10	169	154	5.68				
Min.				0.01	0.14	5.40	7.72	0.30				
Runoff — mcm.				0.482	5.877	191.787	228.116	3.657				

WATER YEAR 1954 : Max 169 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	15.00	10.20	170				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHI RIVER BASIN

Lam Choen at Ban Nong Rua, Khon Kaen (E.15)

Location: Lat 16°- 29' - 12" N, Long 102°- 25'- 22" E, on left bank at Ban Nong Rua, Amphoe Nong Rua, Khon Kaen.

Drainage Area: 4,942 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 0.00 m. (A.S.)

Bench Mark:
Location:
Elevation:

Gage Reading Frequency: 2 and 5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 and 5 readings.

Period of Available Gage Records: 1954, 1956 - 57

Rating Operation:
Period of Rating: 1954, 1956 - 57
Rated by Float: -
Rated by Current Meter: 1954, 1956 - 57

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

Overbank Flow Conditions: No overbank flow.

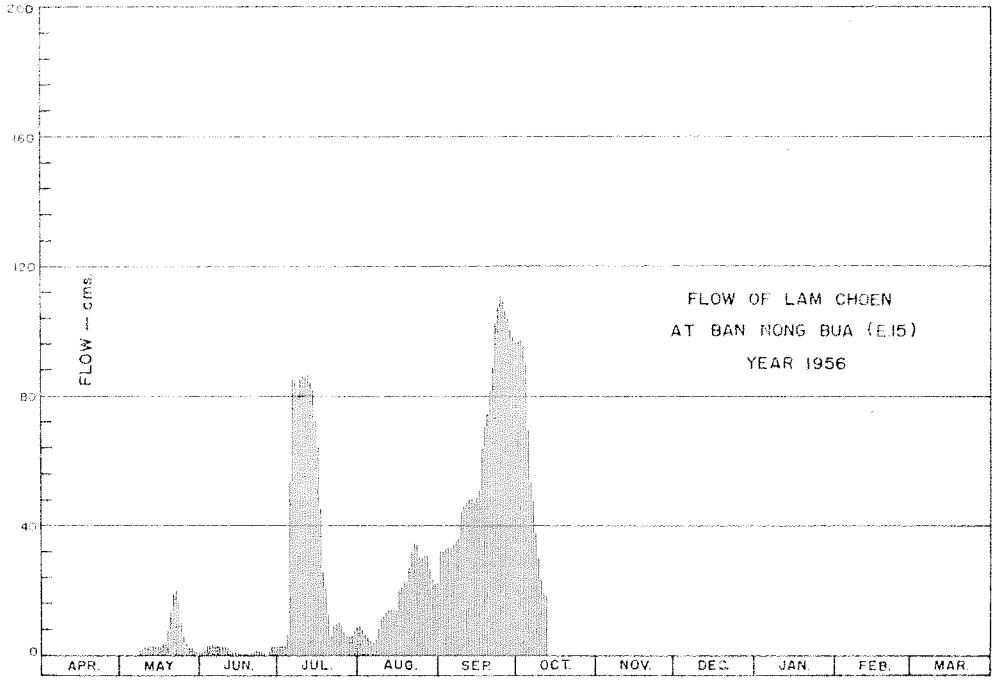
General Description: Records fair. Stage discharge relation used is defined by discharge measurements made during 1954, 1956 - 57. No upstream state diversions for irrigation except those built by the local residents. No adjustments made for virgin flow.

Remarks: No gage-height records for periods Apr.1 - 7 and Oct.13 - Mar.31. Records for year 1955 which are omitted is poor.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.18	0.84	1.19	2.22	4.46	5.84					
2		.18	.89	.20	.04	.43	.86					
3		.18	1.87	.30	1.90	.47	.80					
4		.18	.45	.66	.78	.43	.47					
5		.17	.30	5.66	.61	.49	6.17					
6		0.17	1.30	7.39	1.43	4.56	5.67					
7		.17	.30	.35	.80	.62	.39					
8	0.19	.68	.18	.20	2.26	.71	4.56					
9	.15	.96	.17	.38	.40	5.25	.16					
10	.19	1.10	.17	.45	.55	.38	5.62					
11	0.11	1.18	1.03	7.45	2.70	5.45	3.27					
12	.11	.20	0.74	.45	.78	.48	.23					
13	.18	.26	.65	.35	.78	.48						
14	.18	.19	.64	.24	.85	.46						
15	.18	.14	.81	6.62	3.23	.54						
16	0.18	1.14	0.45	6.36	5.40	5.69						
17	.18	.40	.49	4.65	.55	6.33						
18	.18	.48	.45	3.85	.66	.72						
19	.18	2.15	.58	.36	.74	.92						
20	.18	.85	.64	2.35	4.15	7.28						
21	0.18	3.31	0.68	1.81	4.46	7.55						
22	.18	.49	.78	2.20	.61	8.14						
23	.18	2.72	.83	.39	.60	.71						
24	.18	.16	.85	.38	.23	.43						
25	.18	1.69	.63	.20	.31	.30						
26	0.16	1.25	0.50	1.88	4.34	8.21						
27	.18	.11	.69	.85	.32	.14						
28	.18	.11	1.15	.82	6.88	7.09						
29	.16	0.87	.15	.91	.71	.95						
30	.18	.68	.15	2.06	.64	.92						
31		.64		.23	.69							
Mean		1.23	0.87	4.09	3.18	6.26						
Max.		3.49	1.45	7.45	4.61	8.43						
Min.		0.17	0.45	1.19	1.43	4.43						

WATER YEAR 1956 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.78	2.66	9.98	52	96					
2			1.46	2.70	7.36	52	97					
3			2.98	2.70	6.10	53	95					
4			3.75	4.30	5.40	55	87					
5			3.10	51	4.55	55	61					
6			3.10	85	3.66	34	51					
7			3.10	84	5.50	35	46					
8	0.00	0.86	2.62	80	9.34	36	34					
9		1.74	2.58	85	11	44	29					
10		2.62	2.58	86	12	46	22					
11		2.62	2.82	86	13	47	18					
12		2.70	2.98	86	14	48	18					
13		2.54	0.80	84	14	48						
14		2.66	0.78	81	14	57						
15		2.46	0.52	67	18	49						
16		2.46	0.40	64	28	51						
17		2.50	0.40	55	21	64						
18		2.50	0.40	22	22	71						
19		8.39	0.66	15	23	75						
20		15	0.78	18	26	82						
21		19	0.86	5.56	52	89						
22		20	1.06	6.80	59	102						
23		13	1.22	10	34	108						
24		9.44	1.30	10	29	111						
25		4.99	0.76	8.80	50	108						
26		2.82	0.50	5.98	81	105						
27		2.54	0.88	5.80	51	105						
28		2.34	2.50	5.62	35	100						
29		1.38	2.50	6.10	27	98						
30		0.86	2.50	9.54	22	96						
31		0.78		9.07	23							
Total		122.72	42.87	1,121.22	926.83	1,961						
Mean		4.12	1.59	36.2	18.6	65.4						
Max.		20	3.75	86	35	111						
Min.		0.00	0.40	2.66	3.65	32						
Runoff — mcm.		11.035	4.136	96.873	48.842	169.430						

WATER YEAR 1956 : Max. 111 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 24	12.00	8.45	112				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHI RIVER BASIN

Chi River at Tha Phra, Khon Kaen (E.16)

Location: Lat 16°- 21' - 13" N, Long 102°- 48' - 35" E, on left bank at Railway Bridge, Ban Tha Phra, Amphoe Muang, Khon Kaen.

Drainage Area: 13,172 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +142.44 m. (M.S.L.)

Bench Mark:

Location:
Elevation:

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 - 63, 1965 - 66

Rating Operation:

Period of Rating: 1954 - 55, 1953, 1965 - 66
Rated by Float: -
Rated by Current Meter: 1954 - 55, 1953, 1965 - 66

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

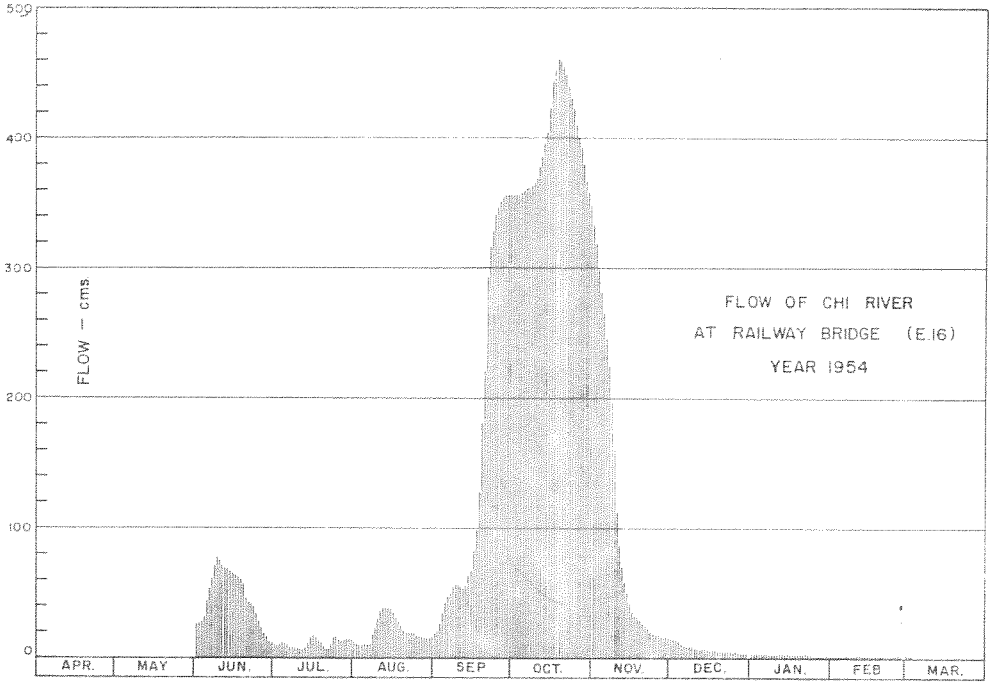
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954 - 57 and including discharge measurements for station at Highway Bridge, about 400 meters above gage site for year 1962 - 66. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

Remarks: Stream gaging began on June 1.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			144.30	143.53	143.66	144.02	150.92	150.60	143.80	143.19	143.04	142.99
2			.40	.54	.61	.15	.92	.38	.77	.18	.01	.97
3			.44	.59	.57	.41	.94	.09	.74	.18	.00	.95
4			.55	.64	.59	.73	.96	149.85	.69	.17	.00	.94
5			145.00	.62	.60	.95	.98	.55	.65	.16	.00	.93
6			145.31	143.55	143.58	145.07	150.99	149.23	143.58	143.15	143.00	142.96
7			.53	.46	.57	.16	151.01	148.78	.54	.15	142.99	.95
8			.81	.46	.84	.29	.02	.18	.51	.14	.99	.94
9			.92	.42	144.28	.36	.07	147.52	.50	.13	.99	.93
10			.85	.41	.58	.34	.12	146.73	.47	.12	.99	.92
11			145.70	143.37	144.74	145.27	151.20	146.12	143.43	143.12	142.98	142.91
12			.68	.36	.78	.25	.29	145.72	.40	.11	.98	.90
13			.64	.40	.79	.36	.37	.39	.39	.11	.98	.89
14			.60	.60	.80	.52	.44	.12	.39	.11	.98	.88
15			.56	.83	.74	.66	.56	144.85	.38	.10	.98	.87
16			145.54	143.94	144.66	146.02	151.71	144.64	143.36	143.10	142.97	142.85
17			.49	.88	.52	.53	.81	.56	.35	.09	.95	.85
18			.44	.75	.37	147.25	.85	.54	.33	.09	.94	.83
19			.43	.62	.21	148.32	.85	.41	.31	.08	.94	.84
20			144.99	.50	.09	149.31	.80	.32	.30	.08	.97	.86
21			144.93	143.43	144.04	150.15	151.75	144.26	143.28	143.07	142.96	142.87
22			.87	.40	.05	.49	.68	.16	.27	.07	.95	.88
23			.81	.67	.07	.65	.62	.09	.26	.06	.98	.87
24			.60	.83	143.99	.78	.53	.02	.26	.05	143.00	.86
25			.40	.83	.92	.85	.45	143.97	.25	.04	.03	.86
26			144.20	143.75	143.90	150.89	151.37	143.93	143.25	143.03	143.05	142.86
27			143.90	.71	.86	.92	.28	.89	.23	.03	.05	.85
28			.86	.76	.84	.92	.16	.85	.22	.03	.04	.84
29			.73	.80	.80	.93	.05	.85	.21	.02		.84
30			.61	.80	.79	.92	150.92	.83	.21	.02		.83
31				.74	.88		.77		.20	.02		.83
Mean			144.97	143.62	144.09	142.35	151.30	146.01	143.40	143.10	142.99	142.89
Max.			145.92	143.94	144.80	150.93	151.85	150.60	143.80	143.19	143.05	142.99
Min.			143.61	143.36	143.57	144.02	150.77	143.83	143.20	143.02	142.94	142.85

WATER YEAR 1954 : Max. 151.85 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			25	8.40	17	38	304	329	14	5.60	1.60	1.45
2			27	8.80	30	31	254	314	13	5.30	1.60	1.29
3			28	9.60	9.40	28	325	286	15	5.30	1.50	1.15
4			31	11	9.80	24	357	276	13	5.20	1.50	1.08
5			44	10	10	46	378	258	11	5.10	1.50	1.01
6			55	9.00	9.80	47	339	252	9.60	5.00	1.50	1.22
7			62	7.40	9.40	50	361	212	8.80	5.00	1.43	1.15
8			73	7.40	15	54	362	180	8.20	2.90	1.43	1.08
9			77	6.80	24	56	366	147	8.00	2.80	1.43	1.01
10			74	6.65	32	56	371	110	7.90	2.70	1.43	0.94
11			68	6.05	37	55	372	85	6.95	2.70	1.36	0.87
12			68	5.90	38	54	389	69	6.50	2.60	1.36	0.80
13			67	6.50	38	56	398	57	6.35	2.60	1.36	0.76
14			65	10	38	62	406	48	6.65	2.60	1.36	0.72
15			64	15	37	67	421	40	6.20	2.50	1.36	0.68
16			63	17	34	81	440	34	5.90	2.50	1.29	0.60
17			61	16	30	102	454	31	5.75	2.40	1.15	0.60
18			59	13	27	124	460	31	5.45	2.40	1.08	0.52
19			58	10	25	167	457	28	5.15	2.30	1.08	0.56
20			47	8.20	20	245	445	25	5.00	2.30	1.29	0.64
21			42	6.95	19	307	446	24	4.70	2.20	1.22	0.68
22			41	6.50	19	321	436	21	4.55	2.20	1.15	0.72
23			39	11	19	342	429	20	4.46	2.10	1.36	0.68
24			37	15	18	342	417	18	4.40	2.00	1.50	0.64
25			27	15	16	348	402	17	4.35	1.90	1.60	0.64
26			22	13	16	341	398	17	4.25	1.80	2.00	0.64
27			18	12	15	354	388	16	3.95	1.80	2.00	0.60
28			15	13	15	354	375	15	3.80	1.80	1.90	0.56
29			13	14	14	354	364	15	3.65	1.70		0.56
30			10	14	14	354	354	15	3.65	1.70		0.52
31				13	16		342		3.50	1.70		
Total			1,573	326.35	643.20	4,855	12,210	2,980	210.45	76.50	40.54	24.35
Mean			45.8	10.5	20.7	162	394	99.3	6.79	2.47	1.45	0.81
Max.			77	17	38	354	460	329	14	5.40	2.00	1.43
Min.			10	5.90	9.40	18	354	15	3.50	1.70	1.08	0.52
Runoff - mcm.			118.627	28.197	55.572	419.299	1,054.944	257.472	18.185	6.610	3.503	2.104

WATER YEAR 1954 : Max. 460 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	06.00	151.86	462				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHI RIVER BASIN

Chi River at Tha Phra, Khon Kaen (E.16)

Location: Lat 16° – 21' – 13" N, Long 102° – 48' – 35" E, on left bank at Railway Bridge, Ban Tha Phra, Amphoe Muang, Khon Kaen.

Drainage Area: 13,172 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +142.35 m. (M.S.L.)

Bench Mark:

Location:
Elevation:

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 – 63, 1965 – 66

Rating Operation:

Period of Rating: 1954 – 55, 1953, 1965 – 66
Rated by Float: –
Rated by Current Meter: 1954 – 55, 1953, 1965 – 66

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

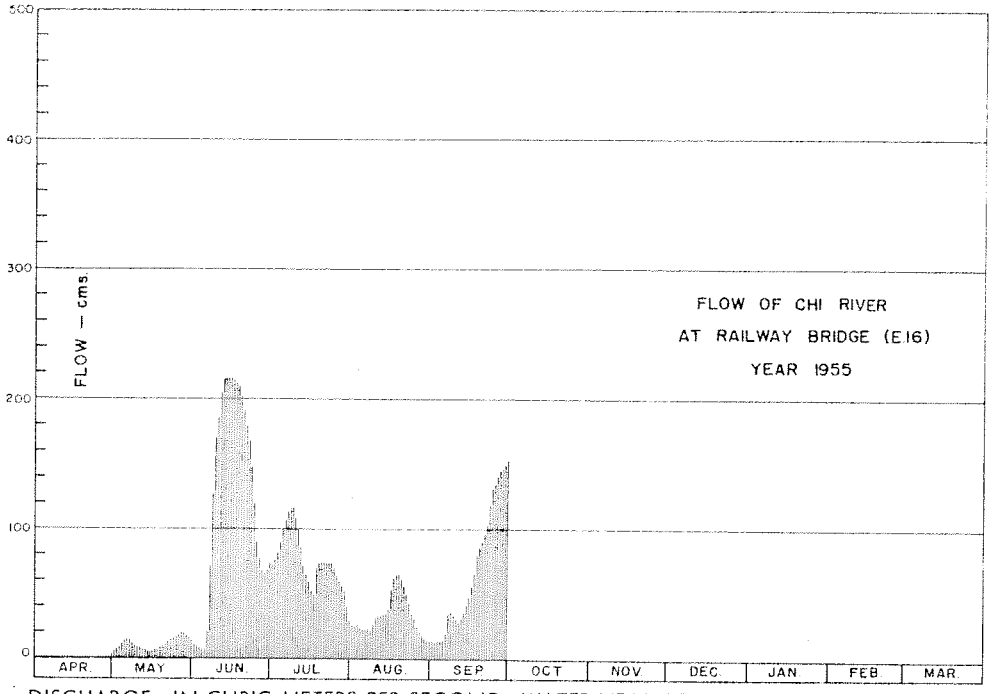
General Description: Records poor. Stage–discharge relation used is defined by discharge measurements made during 1954–57 and including discharge measurements for station at Highway Bridge, about 400 meters above gage site for year 1962–66. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage – height record Oct.1 to Mar.31

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.84	143.36	143.66	145.79	144.33	143.78						
2	.85	.44	.56	.92	.31	.77						
3	.88	.52	.52	146.05	.37	.78						
4	143.00	.65	.44	.24	.25	.79						
5	142.98	.79	.49	.46	.24	.85						
6	142.92	143.86	144.36	146.65	144.23	144.09						
7	.90	.82	145.76	.81	.22	.67						
8	.88	.71	147.13	.85	.19	.75						
9	.88	.62	.98	.85	.37	.67						
10	.88	.58	148.36	.60	.60	.56						
11	142.92	143.53	148.66	146.41	144.65	144.43						
12	.96	.48	.84	.01	.63	.53						
13	.97	.40	.65	145.72	.66	.69						
14	.94	.31	.85	.58	.69	.88						
15	.91	.31	.85	.43	.77	145.16						
16	142.88	143.36	148.84	145.20	145.29	145.40						
17	.87	.38	.79	.18	.51	.62						
18	.87	.42	.77	.74	.61	146.02						
19	.89	.51	.57	.85	.60	.20						
20	.91	.60	.35	.85	.50	.30						
21	142.90	143.67	148.15	145.85	145.32	146.42						
22	.89	.77	147.93	.83	.16	.62						
23	.88	.83	.38	.85	144.89	.94						
24	.87	.88	146.68	.85	.66	147.19						
25	.87	.95	.15	.75	.55	.31						
26	142.88	144.02	145.86	145.55	144.29	147.41						
27	.88	.09	.62	.45	.15	.49						
28	.89	.03	.62	.33	.01	.51						
29	.99	143.96	.68	.22	143.91	.57						
30	143.14	.89	.83	144.82	.84	.64						
31		.78		.38	.79							
Mean	142.91	143.66	146.78	145.84	144.60	145.57						
Max.	143.14	144.09	148.85	146.85	145.61	147.64						
Min.	142.84	143.31	143.44	144.38	143.79	143.77						

WATER YEAR 1955 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.56	5.90	11	72	26	14						
2	0.60	7.10	9.20	77	25	13						
3	0.72	8.40	8.40	82	27	14						
4	1.50	11	7.10	90	24	14						
5	1.36	14	7.85	99	23	15						
6	0.94	15	26	107	23	20						
7	0.80	14	71	114	23	35						
8	0.72	12	128	116	22	37						
9	0.72	10	170	116	27	35						
10	0.72	9.60	189	104	32	31						
11	0.94	8.60	205	97	34	28						
12	1.22	7.70	215	81	43	31						
13	1.29	6.50	216	69	34	35						
14	1.08	5.15	216	64	35	41						
15	0.87	5.15	216	59	38	50						
16	0.72	5.90	215	51	54	58						
17	0.68	6.20	212	50	62	66						
18	0.68	6.80	211	70	65	81						
19	0.76	8.20	200	74	65	88						
20	0.87	10	188	74	61	92						
21	0.80	11	178	74	55	97						
22	0.76	13	167	74	50	105						
23	0.72	15	140	74	41	128						
24	0.68	16	108	74	34	141						
25	0.68	17	86	70	31	156						
26	0.72	18	75	63	25	141						
27	0.72	20	66	60	21	145						
28	0.76	19	66	55	18	146						
29	1.45	17	68	52	16	149						
30	2.90	16	74	39	15	153						
31		14		27	14							
Total	27.92	353.15	3,749.55	2,328	1,053	2,121						
Mean	0.93	11.4	125	75.1	34.0	70.7						
Max.	2.90	20	216	116	65	153						
Min.	0.56	5.15	7.10	27	14	13						
Runoff - mcm.	2.412	30.512	323.961	201.139	90.979	185.254						

WATER YEAR 1955 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHI RIVER BASIN

Chi River at Tha Phra, Khon Kaen (E.16)

Location: Lat 16° – 21' – 13" N, Long 102° – 48' – 35" E, on left bank at Railway Bridge, Ban Tha Phra, Amphoe Muang, Khon Kaen.

Drainage Area: 13,172 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +142.35 m. (M.S.L.)

Bench Mark:

Location:
Elevation:

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 – 63, 1965 – 66

Rating Operation:

Period of Rating: 1954 – 55, 1953, 1965 – 66
Rated by Float: –
Rated by Current Meter: 1954 – 55, 1953, 1965 – 66

Stability of Channel Regimes: Rather unstable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

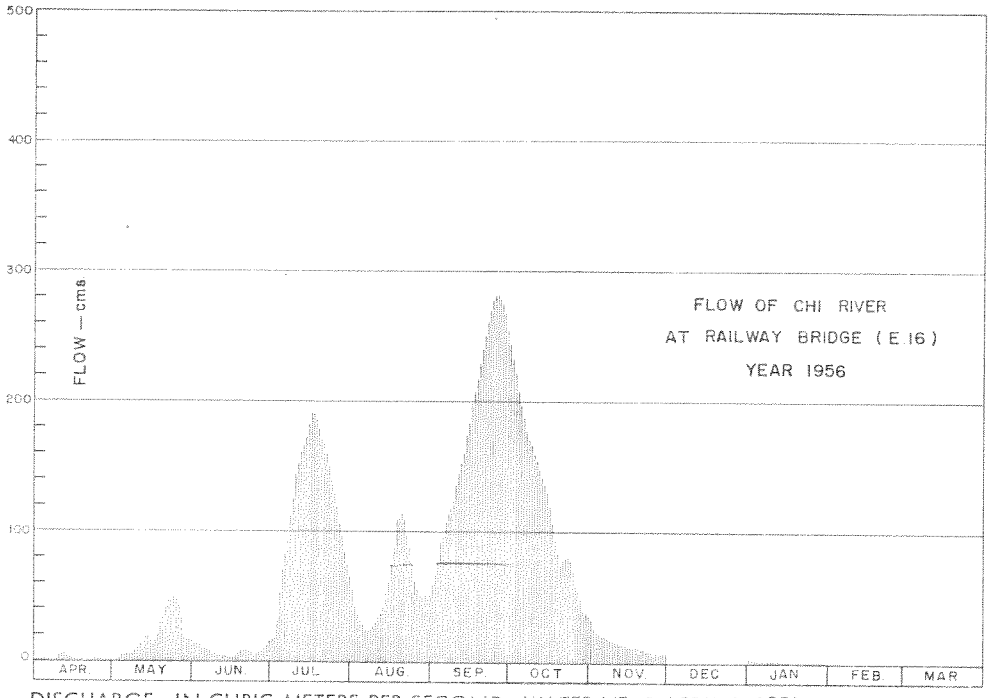
General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1954 – 57 and including discharge measurements for station at Highway Bridge, about 400 meters above gage site for year 1962 – 66. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: No gage – height record Dec. 1 – 30, Feb. 1 to Mar.31

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.77	142.92	143.77	143.98	146.22	145.49	149.33	144.56		143.06		
2	.82	143.03	.81	144.11	144.96	.69	.13	.25		.05		
3	.83	.16	.74	.67	.74	.86	148.95	.18		.05		
4	.83	.25	.70	145.25	.58	146.28	.71	.16		.04		
5	.83	.32	.61	.80	.45	.42	.48	.11		.03		
6	142.82	143.34	143.53	146.11	144.30	146.72	148.28	144.07		143.02		
7	.80	.33	.45	.40	.29	.84	.14	.06		.00		
8	.78	.31	.40	.26	.36	.93	.01	143.97		142.99		
9	.90	.50	.38	147.15	.42	147.13	147.90	.92		.98		
10	143.25	.62	.35	.51	.63	.39	.77	.86		.97		
11	143.30	143.75	143.31	147.69	144.69	147.56	147.67	145.82		142.95		
12	.27	.91	.27	.82	.80	.68	.54	.81		.94		
13	.16	144.02	.25	.92	145.06	.81	.42	.75		.95		
14	.07	.14	.20	148.06	.31	148.09	.28	.71		.93		
15	.00	.01	.11	.25	.55	.31	.14	.67		.92		
16	142.99	145.75	143.19	148.40	145.89	148.57	146.91	145.66		142.91		
17	.98	.90	.28	.39	146.43	.75	.61	.65		.92		
18	.95	144.35	.37	.28	.21	.93	.28	.64		.92		
19	.89	.55	.50	.13	.76	149.12	.06	.62		.90		
20	.88	.70	.58	147.97	.86	.31	145.88	.59		.88		
21	142.87	144.90	143.52	147.92	146.71	149.50	145.94	145.56		142.85		
22	.86	145.12	.47	.73	.44	.66	.99	.54		.85		
23	.82	.17	.42	.52	.20	.80	146.01	.52		.84		
24	.85	.14	.36	.33	145.80	.89	145.94	.48		.84		
25	.88	.08	.41	.11	.50	.92	.78	.45		.84		
26	142.89	145.90	143.46	146.87	145.31	149.92	145.55	145.44		142.84		
27	.90	144.55	.54	.59	.22	.87	.28	.40		.84		
28	.89	143.95	.62	.33	.17	.81	.00	.38		.84		
29	.86	.97	.73	.07	.24	.67	144.78	.34		.84		
30	.85	.91	.88	145.87	.19	.54	.74	.32		.84		
31		.95		.54	.23		.72			.84		
Mean	142.93	144.02	143.47	146.89	145.35	148.21	146.88	145.75		142.92		
Max.	143.30	145.17	143.88	148.40	146.86	149.92	149.33	144.56		143.06		
Min.	142.77	142.92	143.11	143.98	144.29	145.49	144.72	143.32		142.84		

WATER YEAR 1956 : Max. 149.92 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.94	15	18	52	61	243	21		2.10		
2	0.48	1.80	14	20	45	69	231	24		2.00		
3	0.52	5.10	13	35	37	75	221	22		2.00		
4	0.52	4.25	12	53	32	92	208	21		1.90		
5	0.52	5.30	10	72	29	97	195	20		1.80		
6	0.48	5.60	8.60	85	25	110	185	19		1.70		
7	0.40	5.45	7.25	96	25	115	178	18		1.50		
8	0.32	5.15	6.50	112	26	119	171	17		1.43		
9	0.80	8.00	6.20	128	28	128	166	16		1.36		
10	4.25	10	5.75	146	31	140	159	15		1.29		
11	5.00	13	5.15	155	35	149	153	14		1.15		
12	4.55	16	4.55	162	38	155	146	13		1.00		
13	3.10	18	4.25	167	46	161	142	13		1.01		
14	2.20	21	3.50	174	55	175	135	12		1.01		
15	1.50	18	2.50	182	65	185	129	11		0.94		
16	1.43	13	3.40	191	76	200	118	11		0.87		
17	1.56	16	4.70	190	95	210	105	11		0.94		
18	1.15	26	6.05	185	109	220	92	11		0.94		
19	0.76	31	8.00	177	112	231	85	10		0.90		
20	0.72	35	9.60	169	116	242	78	9.80		0.72		
21	0.68	41	8.40	167	109	253	78	9.20		0.60		
22	0.64	48	7.55	157	98	263	80	8.80		0.60		
23	0.48	50	6.80	147	88	273	81	8.40		0.56		
24	0.60	49	5.90	137	72	279	78	7.70		0.56		
25	0.72	47	6.65	127	61	281	72	7.25		0.56		
26	0.76	44	7.40	117	55	281	63	7.10		0.56		
27	0.80	51	8.80	104	52	278	54	6.50		0.56		
28	0.76	17	11	94	50	274	44	5.20		0.56		
29	0.64	17	15	83	52	264	38	5.60		0.56		
30	0.60	15	16	75	51	256	37	5.30		0.56		
31		17		63	52		36			0.56		
Total	37.02	633.59	259.60	3,978	1,811	5,656	3,800	391.85		32.78		
Mean	1.65	20.4	7.99	128	56.4	187	122	13.1		1.06		
Max.	5.00	50	16	191	116	281	243	31		2.10		
Min.	0.28	0.94	2.60	18	25	61	36	5.30		0.56		
Runoff — mcm.	3.198	54.742	20.701	343.699	156.470	488.950	328.320	33.856		2.832		

WATER YEAR 1956 : Max. 281 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	15.00	149.93	282				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
CHI RIVER BASIN

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat 16°- 42' - 41" N, Long 102°- 48' - 30" E, on right bank at bridge on highway Udon - Khon Kaen, south of Ban Nam Phong market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,168 sq.km.

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 left bank of abutment of bridge.
Elevation: +167.463 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 - 66

Rating Operation:

Period of Rating: 1954 - 56, 1964 - 65
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1964 - 65

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

Overbank Flow Conditions: No overbank flow.

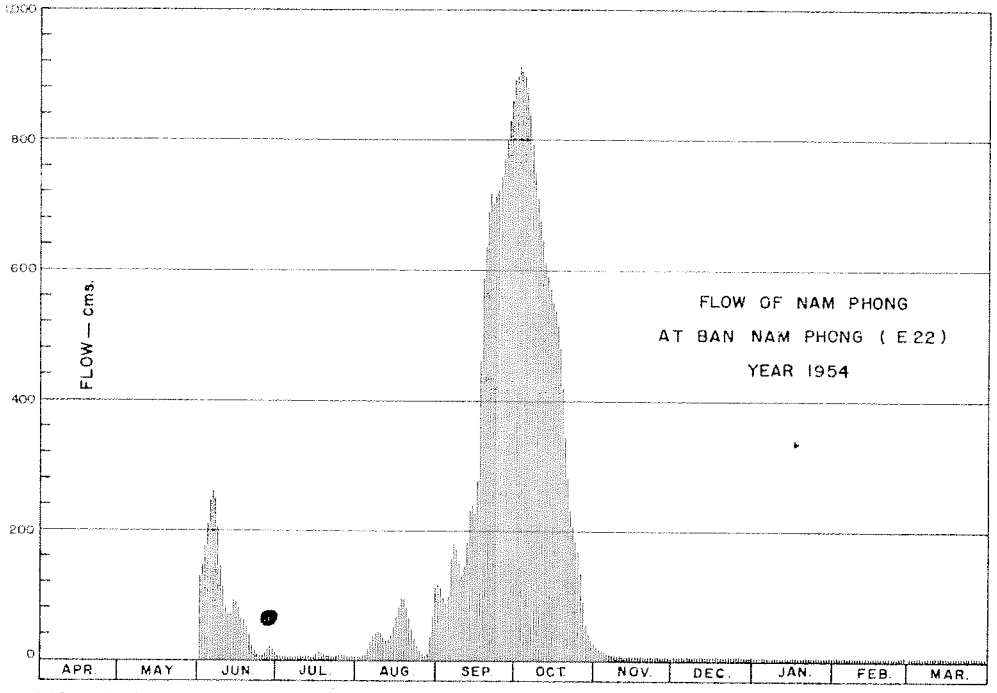
General Description: Records fair. Stage discharge relation used is defined by discharge measurements made during 1954 - 56. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: Gage - height record began on June 1, 1954.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			156.44	152.44	152.32	156.19	162.79	155.35	152.27	152.24	152.15	152.05
2			.78	.40	.36	.04	.86	.17	.27	.24	.15	.05
3			157.28	.34	.47	155.76	.82	.04	.31	.24	.14	.04
4			.89	.30	.50	.43	.80	152.89	.35	.23	.14	.04
5			158.28	.26	153.30	.79	.68	.77	.38	.23	.14	.03
6			158.47	152.22	153.68	157.10	162.49	152.66	152.36	152.23	152.14	152.03
7			.34	.20	154.04	.36	.30	.61	.37	.23	.15	.02
8			157.99	.26	.18	.26	.10	.55	.37	.23	.15	.02
9			156.67	.32	.30	156.82	161.85	.52	.37	.22	.16	.02
10			155.81	.38	.20	.46	.65	.48	.36	.22	.16	.02
11			155.30	152.42	153.91	156.77	161.49	152.45	152.36	152.21	152.15	152.02
12			154.99	.45	.72	157.36	.36	.42	.37	.21	.15	.03
13			155.14	.57	.78	158.07	.24	.41	.37	.20	.14	.03
14			.63	.40	154.06	.21	.08	.43	.38	.20	.14	.03
15			.59	.48	.56	.01	160.95	.41	.36	.19	.14	.03
16			155.34	152.73	155.06	158.28	.85	152.40	152.36	152.18	152.14	152.02
17			154.65	.93	.47	160.42	.68	.40	.35	.18	.13	.02
18			.82	.82	.72	161.15	.44	.39	.32	.18	.13	.02
19			.53	.66	.71	.46	159.75	.37	.30	.19	.12	.02
20			.04	.55	.36	.76	.12	.36	.28	.21	.11	.03
21			153.41	152.51	154.91	161.92	158.56	152.34	152.27	152.22	152.11	152.03
22			152.99	.42	.37	.83	.04	.27	.27	.21	.10	.03
23			.72	.42	153.84	.90	157.62	.26	.26	.21	.09	.03
24			.45	.50	.28	.55	.33	.25	.26	.20	.09	.02
25			.46	.51	152.98	162.08	.08	.25	.26	.18	.08	.01
26			152.67	152.51	152.64	162.19	156.16	152.24	152.25	152.17	152.07	152.01
27			153.14	.47	.52	.34	155.31	.25	.25	.17	.06	.01
28			.29	.39	.77	.46	154.59	.29	.25	.17	.06	.01
29			.05	.35	155.84	.63	.10	.28	.25	.16		.01
30			152.72	.37	155.17	.77	153.69	.27	.25	.16		.00
31				.32	156.10		.56		.25	.15		.00
Mean			155.09	152.44	153.97	159.12	159.59	152.49	152.31	152.19	152.12	152.02
Max.			158.47	152.93	156.10	162.77	162.86	153.35	152.38	152.24	152.16	152.05
Min.			152.45	152.20	152.32	155.43	153.56	152.24	152.25	152.15	152.06	152.00

WATER YEAR 1954 : Max. 162.86 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			150	7.90	6.70	118	896	22	6.20	5.90	5.00	4.25
2			147	7.50	7.10	113	912	16	6.20	5.90	5.00	4.25
3			174	6.90	8.20	99	905	12	6.60	5.90	4.90	4.20
4			216	6.50	8.50	88	898	14	7.00	5.80	4.90	4.20
5			246	6.10	21	109	869	12	7.30	5.80	4.90	4.15
6			262	5.70	50	168	828	11	7.10	5.80	5.00	4.15
7			251	5.50	59	181	790	10	7.20	5.80	5.00	4.10
8			196	6.10	43	174	751	9.25	7.20	5.80	5.10	4.10
9			141	6.70	46	150	709	8.80	7.20	5.70	5.10	4.10
10			101	7.30	45	131	669	8.50	7.10	5.70	5.00	4.10
11			80	7.20	56	147	640	8.30	7.10	5.60	5.00	4.10
12			69	8.00	51	181	607	7.70	7.20	5.60	4.90	4.15
13			74	7.60	53	229	587	7.40	7.20	5.50	4.90	4.15
14			96	7.50	40	240	571	7.80	7.30	5.50	4.90	4.15
15			92	8.50	54	225	551	7.60	7.10	5.40	4.90	4.15
16			87	17	22	246	535	7.50	7.10	5.30	4.90	4.10
17			69	15	87	492	510	7.50	7.00	5.30	4.80	4.10
18			63	13	99	582	475	7.40	6.70	5.30	4.80	4.10
19			52	11	96	654	389	7.20	6.50	5.40	4.70	4.10
20			50	9.30	82	669	322	7.10	6.50	5.60	4.60	4.15
21			26	8.85	66	718	270	6.90	6.20	5.70	4.60	4.15
22			16	9.70	49	701	227	6.20	6.20	5.60	4.50	4.15
23			12	9.70	34	714	201	6.10	6.10	5.60	4.45	4.15
24			8.80	8.50	23	[illegible]	179	6.00	6.10	5.50	4.45	4.10
25			8.10	8.85	16	748	164	6.00	6.10	5.30	4.40	4.05
26			11	8.85	11	769	117	5.90	6.00	5.20	4.35	4.05
27			16	8.20	8.80	798	80	6.00	6.00	5.20	4.30	4.05
28			21	9.40	12	822	55	6.40	6.00	5.20	4.30	4.05
29			17	9.30	34	858	41	6.30	6.00	5.10		4.05
30			12	9.20	75	891	31	6.20	6.00	5.10		4.00
31				6.70	114		27		6.00	5.00		4.00
Total			2,720.10	251.80	1,320.30	12,701	14,573	268.75	198.10	171.10	135.65	127.65
Mean			87.7	8.12	42.6	423	470	8.96	6.42	5.52	4.77	4.12
Max.			262	15	97	891	912	22	7.30	5.90	5.10	4.25
Min.			8.00	5.50	6.70	88	27	5.90	6.00	5.00	4.30	4.00
Runoff - mcm.			235.017	21.755	114.074	1,097.366	1,259.107	23.220	17.202	14.785	11.547	11.029

WATER YEAR 1954 : Max. 912 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	06.00	162.86	912				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
CHI RIVER BASIN

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat 16°- 42' - 41" N, Long 102°- 48' - 30" E, on right bank at bridge on highway Udon - Khon Kaen, south of Ban Nam Phong marget, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,168 sq.km.

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 of abutment of bridge.
Elevation: +167.463 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 - 56

Rating Operation:

Period of Rating: 1954 - 56, 1964 - 65
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1964 - 65

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

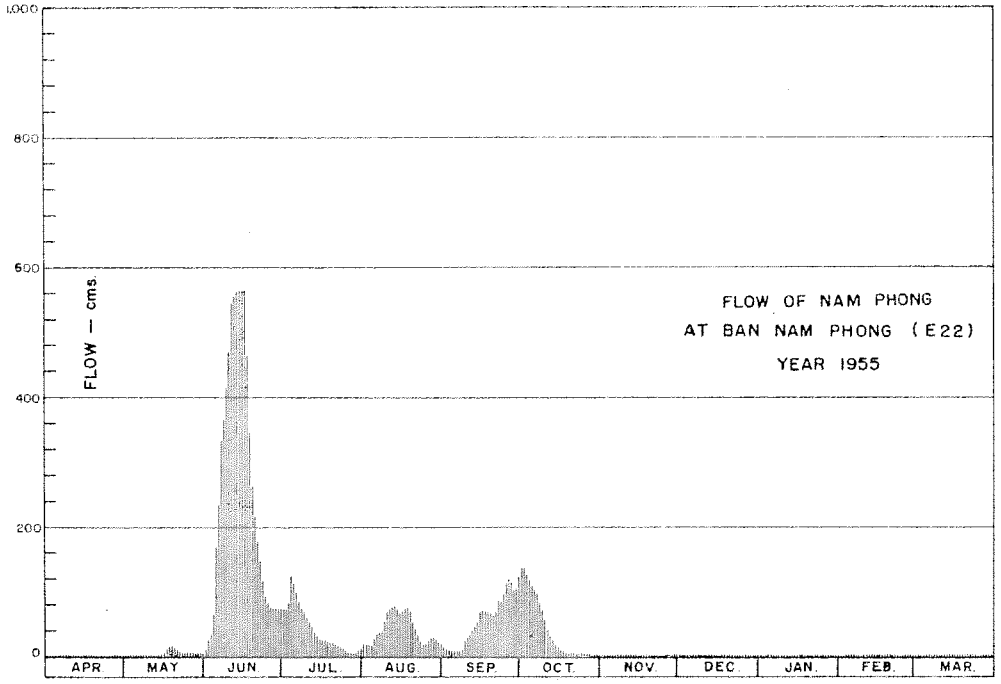
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	151.99	152.11	158.16	155.89	153.68	153.27	152.44	152.23	152.24	152.06	152.00	151.98
2	.99	.09	.94	.85	.58	.12	.42	.10	.24	.06	.00	.97
3	.90	.09	154.48	156.26	.65	.01	.21	.12	.23	.06	.02	.97
4	152.07	.08	155.35	157.20	.47	152.91	.03	.12	.28	.06	.04	.95
5	.05	.08	157.94	156.95	154.09	.87	156.87	.19	.28	.06	.04	.94
6	152.03	152.17	158.81	156.61	154.46	152.88	156.70	152.19	152.28	152.06	152.04	151.92
7	.02	.15	159.81	.26	.57	.87	.56	.19	.27	.06	.04	.92
8	.02	.10	160.21	155.95	.65	.99	.20	.19	.26	.06	.04	.92
9	.02	.11	.67	.78	155.37	153.91	155.74	.18	.23	.06	.03	.92
10	.01	.13	161.22	.48	.77	154.15	.25	.18	.21	.07	.02	.92
11	152.01	152.16	161.77	155.21	155.88	154.39	154.75	152.18	152.19	152.06	152.02	151.92
12	.00	.16	.87	154.88	.95	.77	.33	.17	.19	.06	.04	.92
13	.00	.18	.91	.55	156.07	155.00	.01	.17	.18	.04	.04	.93
14	.01	.18	.92	.25	155.87	.36	153.55	.17	.17	.03	.05	.94
15	.02	.18	.94	155.95	.68	.74	.25	.16	.16	.03	.08	.94
16	152.01	152.26	161.94	154.00	155.84	155.83	153.06	152.16	152.15	152.04	152.12	151.95
17	151.99	153.21	160.88	153.99	.94	.72	152.84	.16	.13	.05	.09	.95
18	.98	.46	159.58	.84	.95	.73	.67	.16	.13	.06	.07	.95
19	.97	.49	.08	.80	.72	.67	.57	.16	.12	.06	.04	152.01
20	.97	.26	158.56	.75	.20	.49	.48	.16	.11	.06	.03	.01
21	151.92	153.04	157.99	153.59	154.80	155.70	152.42	152.16	152.09	152.06	152.02	152.05
22	152.00	152.78	.56	.53	.12	156.26	.43	.16	.08	.06	.02	.02
23	151.99	.78	156.95	.37	153.77	.19	.54	.16	.08	.06	.02	.01
24	.99	.77	.48	.21	.53	.51	.47	.14	.08	.05	.02	151.99
25	.98	.75	.14	152.86	.58	.96	.42	.14	.08	.04	.01	.98
26	152.01	152.72	155.93	152.58	153.93	157.08	152.40	152.16	152.08	152.02	152.01	151.97
27	.08	.68	.91	.35	154.12	156.95	.35	.19	.07	.02	.01	.92
28	.11	.64	.91	.46	.12	.71	.31	.19	.07	.02	.01	152.05
29	.11	.58	.92	.79	153.97	.72	.28	.23	.07	.01	.00	.01
30	.13	.41	.91	153.05	.75	157.17	.24	.23	.07	.01		151.98
31		.38		.23	.52		.22		.06	.01		152.00
Mean	152.01	152.49	158.35	154.43	154.66	155.66	154.06	152.17	152.16	152.05	152.03	151.97
Max.	152.13	153.49	161.94	157.20	156.07	157.17	157.44	152.23	152.28	152.07	152.12	152.03
Min.	151.90	152.08	153.15	152.33	153.47	152.87	152.22	152.10	152.06	152.01	152.00	151.92

WATER YEAR 1955 : Max. 161.94 m. Min. 151.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.95	2.55	12	74	21	14	138	3.24	3.32	2.30	2.00	1.90
2	1.95	2.45	25	73	19	12	137	2.50	3.32	2.30	2.00	1.85
3	1.50	2.45	37	87	20	10	126	2.60	3.34	2.30	2.10	1.85
4	2.35	2.40	57	126	17	9.32	117	2.60	3.40	2.30	2.20	1.75
5	2.20	2.40	169	113	29	8.84	110	2.95	3.64	2.30	2.20	1.70
6	2.15	2.85	235	99	36	8.96	103	2.95	3.64	2.30	2.20	1.60
7	2.10	2.70	331	87	39	8.84	97	2.95	3.50	2.30	2.20	1.60
8	2.10	2.50	372	75	40	10	85	2.95	3.48	2.30	2.20	1.60
9	2.10	2.55	423	70	58	25	69	2.90	3.24	2.30	2.15	1.60
10	2.05	2.65	483	61	70	30	59	2.90	3.08	2.35	2.10	1.60
11	2.05	2.80	544	53	74	35	43	2.90	2.95	2.30	2.10	1.60
12	2.00	2.80	556	46	76	43	33	2.85	2.95	2.30	2.20	1.60
13	2.00	2.90	561	38	80	48	27	2.85	2.90	2.20	2.20	1.65
14	2.05	2.90	562	32	73	58	18	2.85	2.85	2.15	2.25	1.70
15	2.10	2.90	564	26	67	69	14	2.80	2.80	2.15	2.40	1.70
16	2.05	3.48	564	27	72	72	11	2.80	2.75	2.20	2.60	1.75
17	1.95	13	446	26	76	69	8.48	2.80	2.65	2.25	2.45	1.75
18	1.90	16	308	24	76	69	6.88	2.80	2.65	2.30	2.35	1.75
19	1.85	17	259	23	69	67	5.96	2.80	2.60	2.30	2.20	2.05
20	1.85	14	215	22	53	62	5.24	2.80	2.55	2.30	2.15	2.05
21	1.60	11	172	19	44	68	4.76	2.80	2.45	2.30	2.10	2.15
22	2.00	7.82	145	18	30	87	4.84	2.80	2.40	2.30	2.10	2.10
23	1.95	7.91	114	15	22	84	5.72	2.80	2.40	2.30	2.10	2.05
24	1.95	7.73	94	13	18	96	5.16	2.70	2.40	2.25	2.10	1.95
25	1.90	7.55	82	8.72	19	114	4.76	2.70	2.40	2.20	2.05	1.90
26	2.00	7.28	75	6.04	25	120	4.60	2.80	2.40	2.20	2.05	1.85
27	2.40	6.92	75	4.04	29	114	4.20	2.95	2.35	2.20	2.05	1.95
28	2.55	6.56	75	5.08	29	103	3.88	2.95	2.35	2.20	2.05	2.25
29	2.55	6.04	75	7.91	26	104	3.64	3.24	2.35	2.05	2.00	2.05
30	2.65	4.68	75	11	22	124	3.32	3.24	2.35	2.05		1.90
31		4.44		13	18		3.16		2.30	2.05		1.95
Total	61.85	181.21	7,705	1,302.79	1,347	1,742.96	1,257.55	85.77	87.72	69.60	62.85	56.75
Mean	2.06	5.84	257	42.0	43.4	58.1	40.6	2.86	2.83	2.24	2.17	1.83
Max.	2.65	17	564	126	80	124	138	3.24	3.64	2.35	2.60	2.25
Min.	1.50	2.40	12	4.04	17	8.84	3.16	2.50	2.30	2.05	2.00	1.60
Runoff — mcm.	5.544	15.656	665.712	112.561	116.381	150.592	108.652	7.410	7.579	6.013	5.430	4.903

WATER YEAR 1955 : Max. 564 Min. 1.80 Mean 38.1 Annual Runoff 1,206.140 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 15	12.00	161.94	564				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
CHI RIVER BASIN

Nam Phong at Ban Nam Phong, Khon Kaen (E.22)

Location: Lat 16°- 42' - 41" N, Long 102°- 48' - 30" E, on right bank at bridge on highway Udon - Khon Kaen, south of Ban Nam Phong market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 15,168 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +151.22 m. (M.S.L.)

Bench Mark: B.M. - N.S./R.I.D. No.1

Location: On right bank of abutment of bridge.
Elevation: +167.463 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 - 66

Rating Operation:

Period of Rating: 1954 - 56, 1964 - 65
Rated by Float: -
Rated by Current Meter: 1954 - 56, 1964 - 65

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

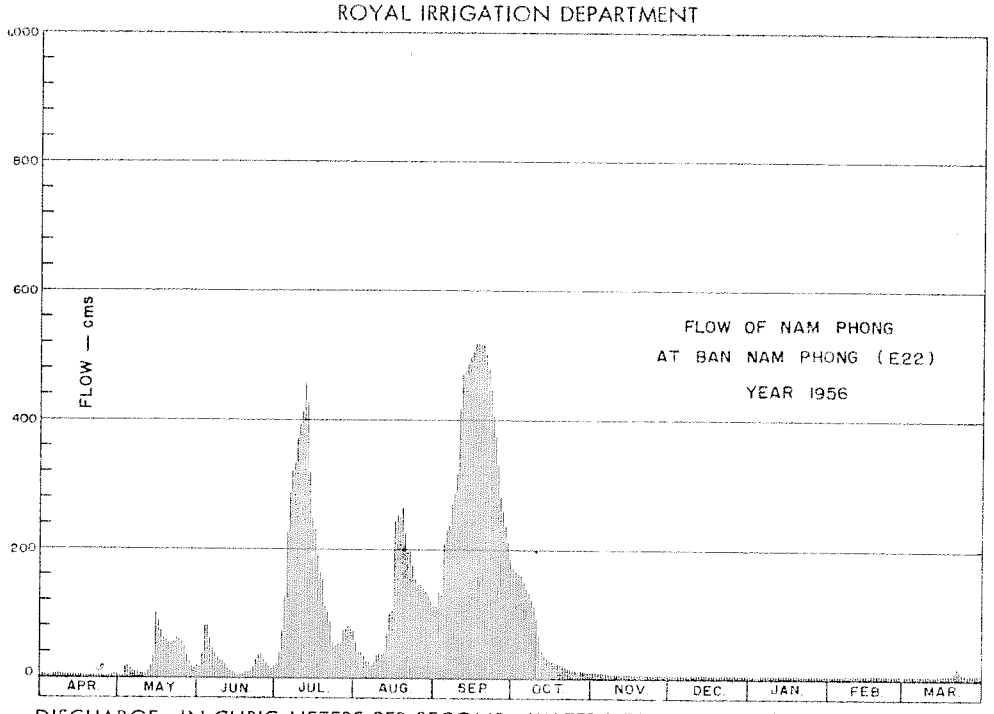
Overbank Flow Conditions: No overbank flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	152.00	152.22	153.02	153.25	154.72	156.34	157.25	152.55	152.19	152.12	152.05	152.04
2	151.98	.19	.88	154.09	.42	.79	.23	.55	.19	.12	.05	.04
3	.98	153.02	155.44	.76	153.97	.70	.16	.55	.18	.12	.05	.04
4	152.05	.12	.47	156.86	.73	157.99	.09	.50	.18	.11	.05	.04
5	.08	152.95	154.85	158.17	.42	158.29	156.92	.45	.18	.11	.05	.04
6	152.11	152.66	154.33	159.02	153.17	158.43	156.70	152.40	152.18	152.11	152.05	152.04
7	.13	.52	153.97	.40	152.97	.69	.56	.35	.17	.10	.05	.03
8	.09	.52	.77	.57	153.43	159.24	.32	.31	.17	.10	.05	.01
9	.07	.55	.64	.96	.78	.64	.08	.27	.17	.10	.05	.01
10	.05	.38	.45	160.10	.82	160.67	155.85	.26	.17	.09	.04	.00
11	152.04	152.43	153.05	160.18	153.74	160.86	154.77	152.26	152.17	152.09	152.04	151.99
12	.03	.63	152.80	.19	.82	161.03	155.92	.26	.17	.09	.05	152.00
13	.02	153.05	.59	159.90	154.49	.10	.73	.26	.16	.08	.05	.00
14	.01	.84	.52	.23	155.25	.13	.57	.25	.16	.08	.05	.00
15	.00	155.32	.44	158.39	156.00	.16	.48	.24	.16	.08	.06	.01
16	152.00	155.70	152.35	158.42	158.64	161.26	153.41	152.22	152.16	152.08	152.08	152.02
17	151.99	.37	.32	157.73	.77	.24	.38	.20	.15	.07	.08	.14
18	.98	.04	.28	.50	.64	.22	.37	.20	.15	.07	.08	.34
19	.97	154.92	.30	156.89	.80	.20	.26	.20	.15	.07	.08	.27
20	.96	.67	.47	.33	.09	.09	.13	.20	.15	.07	.08	.51
21	151.96	154.55	152.66	155.92	157.61	160.82	152.96	152.20	152.15	152.07	152.08	153.03
22	.95	.57	153.05	.49	.63	.63	.90	.20	.15	.07	.08	152.72
23	.96	.66	.53	154.97	.45	.24	.85	.20	.14	.07	.08	.45
24	.96	.78	.81	.73	.26	159.85	.80	.20	.14	.07	.07	.34
25	.97	.65	.82	.77	.20	.46	.76	.20	.14	.07	.07	.32
26	151.99	154.32	156.43	154.93	157.04	159.09	152.73	152.20	152.13	152.07	152.06	152.34
27	152.07	153.75	.19	155.27	156.82	158.70	.74	.20	.13	.06	.05	.34
28	.09	.32	152.87	.62	.87	.35	.72	.20	.13	.06	.05	.33
29	.30	152.94	.78	.49	.76	157.98	.68	.20	.13	.06		.37
30	.30	.84	.90	.50	.51	.55	.63	.20	.13	.06		.39
31		153.18		.21	.35		.57		.13	.05		.36
Mean	152.04	153.63	153.30	157.03	155.26	159.56	154.31	152.28	152.16	152.08	152.06	152.21
Max.	152.30	155.70	155.47	160.19	158.80	161.26	157.25	152.55	152.19	152.12	152.08	153.03
Min.	151.95	152.19	152.28	153.25	152.97	156.34	152.57	152.20	152.13	152.05	152.04	152.00

WATER YEAR 1956 : Max. 161.26 m. Min. 152.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.00	2.80	18	24	51	112	165	9.50	5.90	5.20	4.50	4.40
2	3.90	2.60	38	46	40	134	165	9.50	5.90	5.20	4.50	4.40
3	3.90	17	83	71	40	131	161	9.50	5.80	5.20	4.50	4.40
4	4.50	19	82	117	34	209	157	9.00	5.80	5.10	4.50	4.40
5	4.80	16	61	221	26	229	148	8.50	5.80	5.10	4.50	4.40
6	5.10	11	47	287	26	238	137	8.00	5.80	5.10	4.50	4.40
7	5.30	10	40	321	18	270	130	7.50	5.70	5.00	4.50	4.30
8	4.90	10	32	327	27	287	119	7.10	5.70	5.00	4.50	4.10
9	4.70	8.00	28	376	37	310	109	6.70	5.70	5.00	4.50	4.10
10	4.50	6.00	26	396	36	404	88	6.50	5.70	4.90	4.40	4.00
11	4.40	4.50	20	411	36	471	62	6.60	5.70	4.90	4.40	3.95
12	4.30	12	14	459	40	471	59	6.60	5.70	4.90	4.50	4.00
13	4.20	18	12	422	67	480	54	6.60	5.80	4.80	4.50	4.00
14	4.10	37	10	305	101	500	30	6.50	5.60	4.80	4.50	4.00
15	4.00	105	7.90	231	105	505	28	6.40	5.60	4.80	4.60	4.10
16	4.00	85	6.90	250	244	519	25	6.20	5.60	4.80	4.80	4.20
17	3.95	74	6.80	179	254	518	25	6.00	5.50	4.70	4.80	5.40
18	3.90	61	6.60	162	250	516	25	6.00	5.50	4.70	4.90	7.40
19	3.85	58	8.70	154	265	516	22	6.00	5.50	4.70	4.80	6.70
20	3.80	54	9.20	112	214	501	20	6.00	5.50	4.70	4.80	9.10
21	3.80	55	11	104	195	470	16	6.00	5.50	4.70	4.80	18
22	3.75	56	18	86	198	448	15	6.00	5.50	4.70	4.80	12
23	3.80	63	30	55	176	464	14	6.00	5.40	4.70	4.80	8.50
24	3.80	62	37	51	149	366	13	6.00	5.40	4.70	4.70	7.40
25	3.85	58	38	53	145	327	12	6.00	5.40	4.70	4.70	7.20
26	3.95	48	28	54	142	273	12	6.00	5.30	4.70	4.60	7.40
27	4.70	35	22	75	140	260	12	6.00	5.30	4.60	4.50	7.40
28	4.90	24	17	76	136	253	12	6.00	5.30	4.60	4.50	7.30
29	7.00	17	15	81	127	209	11	6.00	5.30	4.60		7.70
30	7.00	16	19	77	119	182	10	6.00	5.30	4.60		7.90
31		22		75	111		10		5.30	4.50		7.60
Total	132.65	1,064.90	792.10	5,636	3,829	10,439	1,828	205	172.60	149.70	126.80	194.15
Mean	4.43	34.3	26.4	182	124	348	59.0	6.83	5.58	4.84	4.61	6.26
Max.	7.00	85	83	459	378	519	166	9.50	5.90	5.20	4.80	18
Min.	3.75	2.60	6.60	24	18	112	10	6.00	5.30	4.50	4.40	4.00
Runoff - mcm.	11.491	92.016	68.427	486.950	330.826	901.930	157.959	17.695	14.947	12.960	11.146	16.952

WATER YEAR 1956 : Max. 519 Min. 2.60 Mean 68.4 Annual Runoff 2,156.198 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 16	12.00	161.26	519				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
MUN RIVER BASIN

Mun 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.

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 left bank along 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, 1969 to date
Rated by Float: -
Rated by Current Meter: 1960, 1969 to date

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

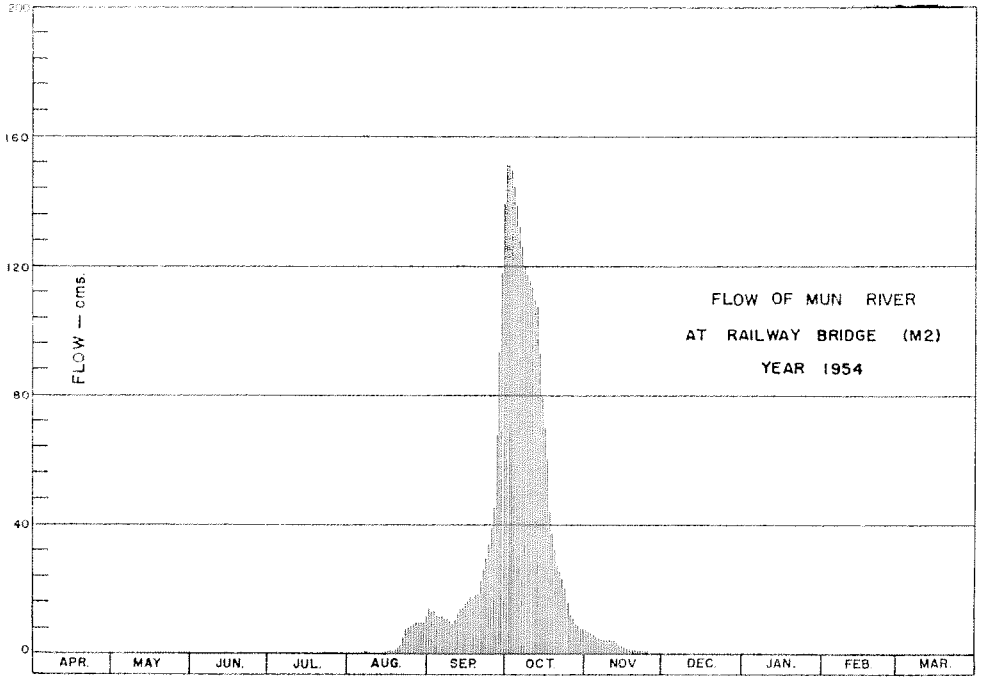
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.44	159.39	159.26	159.25	159.44	161.76	165.55	161.12	159.61	159.51	159.41	159.37
2	.43	.38	.24	.24	.43	.73	.55	.05	.60	.50	.41	.37
3	.42	.36	.22	.25	.41	.68	.53	160.99	.60	.50	.41	.38
4	.42	.36	.21	.27	.47	.64	.49	.92	.60	.50	.41	.38
5	.41	.36	.20	.31	.56	.60	.46	.82	.60	.49	.40	.39
6	159.40	159.35	159.19	159.35	159.63	161.57	165.43	160.77	159.59	159.49	159.40	159.39
7	.39	.35	.18	.39	.69	.53	.38	.69	.59	.49	.40	.40
8	.38	.34	.15	.42	.66	.46	.31	.65	.59	.48	.40	.40
9	.36	.34	.14	.45	.62	.39	.28	.64	.58	.47	.40	.40
10	.34	.34	.13	.45	.60	.34	.26	.63	.58	.47	.39	.40
11	159.34	159.35	159.12	159.42	159.59	161.45	165.23	160.62	159.58	159.46	159.39	159.40
12	.33	.35	.12	.39	.58	.63	.20	.61	.58	.46	.39	.40
13	.33	.35	.12	.32	.61	.76	.16	.54	.58	.46	.39	.41
14	.32	.36	.14	.29	.66	.84	164.87	.45	.57	.45	.39	.41
15	.32	.36	.17	.28	.71	.99	.68	.28	.57	.45	.39	.41
16	159.31	159.37	159.19	159.26	159.74	162.09	164.41	160.19	159.57	159.45	159.38	159.42
17	.30	.37	.22	.24	.77	.16	163.98	159.98	.56	.45	.38	.42
18	.30	.37	.23	.30	.81	.13	.52	.96	.56	.45	.38	.42
19	.29	.38	.25	.38	.88	.18	.35	.92	.56	.44	.38	.42
20	.29	.38	.29	.44	160.10	.33	.03	.88	.55	.44	.38	.41
21	159.29	159.38	159.31	159.50	160.40	162.53	162.83	159.84	159.55	159.44	159.37	159.41
22	.28	.39	.33	.56	.81	.76	.69	.82	.55	.44	.37	.41
23	.28	.39	.35	.61	161.13	.98	.48	.77	.54	.43	.37	.41
24	.30	.39	.32	.67	.25	163.16	.38	.73	.54	.43	.37	.41
25	.31	.38	.28	.67	.31	.33	.00	.70	.53	.43	.36	.40
26	159.33	159.38	159.26	159.62	161.35	163.65	161.65	159.65	159.53	159.43	159.36	159.40
27	.34	.37	.24	.59	.41	160.02	.48	.63	.52	.42	.36	.40
28	.36	.35	.23	.54	.44	.61	.38	.62	.52	.42	.36	.39
29	.38	.33	.23	.52	.43	165.20	.30	.62	.52	.42		.39
30	.40	.30	.26	.49	.40	.47	.24	.61	.51	.42		.38
31		.28		.46	.59		.19		.51	.41		.38
Mean	159.35	159.36	159.22	159.42	160.19	162.43	163.81	160.26	159.56	159.45	159.38	159.40
Max.	159.44	159.39	159.35	159.67	161.59	165.47	165.55	161.12	159.61	159.51	159.41	159.42
Min.	159.28	159.28	159.12	159.24	159.41	161.34	161.19	159.61	159.51	159.41	159.36	159.37

WATER YEAR 1954 : Max. 165.55 m. Min. 159.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.35	0.18	0.17	0.40	14	151	7.72	0.66	0.49	0.37	0.32
2	0.39	0.33	0.17	0.17	0.39	13	151	7.20	0.64	0.47	0.37	0.32
3	0.38	0.30	0.15	0.17	0.37	13	148	6.72	0.64	0.47	0.37	0.33
4	0.38	0.30	0.14	0.19	0.44	12	142	6.16	0.64	0.47	0.37	0.33
5	0.37	0.30	0.13	0.23	0.57	12	138	5.46	0.64	0.46	0.36	0.35
6	0.36	0.29	0.12	0.29	0.70	12	134	5.13	0.62	0.46	0.36	0.35
7	0.35	0.29	0.12	0.35	0.83	11	128	4.68	0.62	0.46	0.36	0.36
8	0.33	0.28	0.10	0.38	0.77	11	120	4.46	0.62	0.45	0.36	0.36
9	0.30	0.28	0.09	0.41	0.68	9.90	117	4.41	0.61	0.44	0.36	0.36
10	0.28	0.28	0.09	0.41	0.64	9.40	115	4.36	0.61	0.44	0.35	0.36
11	0.28	0.29	0.08	0.38	0.62	10	113	4.31	0.61	0.43	0.35	0.36
12	0.26	0.29	0.08	0.35	0.61	12	110	4.25	0.61	0.43	0.35	0.36
13	0.26	0.29	0.08	0.25	0.66	14	107	3.89	0.61	0.43	0.35	0.37
14	0.25	0.30	0.09	0.21	0.77	14	89	3.44	0.59	0.41	0.35	0.37
15	0.25	0.30	0.11	0.20	0.87	16	80	2.69	0.59	0.41	0.35	0.37
16	0.25	0.32	0.12	0.18	0.94	17	69	2.31	0.59	0.41	0.33	0.38
17	0.22	0.32	0.15	0.17	1.00	18	54	1.62	0.57	0.41	0.33	0.38
18	0.22	0.32	0.16	0.22	1.11	17	41	1.56	0.57	0.41	0.33	0.38
19	0.21	0.33	0.17	0.33	1.31	18	37	1.43	0.57	0.40	0.33	0.38
20	0.21	0.33	0.21	0.40	2.00	19	31	1.31	0.55	0.40	0.33	0.37
21	0.21	0.35	0.23	0.47	3.20	23	27	1.20	0.55	0.40	0.32	0.37
22	0.20	0.35	0.26	0.57	5.39	26	25	1.14	0.55	0.40	0.32	0.37
23	0.20	0.35	0.29	0.66	7.78	30	22	1.00	0.54	0.39	0.32	0.37
24	0.22	0.35	0.25	0.79	8.60	33	20	0.92	0.54	0.39	0.32	0.37
25	0.23	0.35	0.20	0.79	9.10	37	16	0.85	0.52	0.39	0.30	0.36
26	0.26	0.33	0.18	0.68	9.50	45	12	0.74	0.52	0.39	0.30	0.36
27	0.28	0.32	0.17	0.62	10	55	11	0.70	0.50	0.38	0.30	0.36
28	0.30	0.29	0.16	0.54	10	77	9.80	0.68	0.50	0.38	0.30	0.35
29	0.33	0.26	0.16	0.50	10	110	9.00	0.68	0.50	0.38		0.35
30	0.36	0.22	0.16	0.46	10	139	8.52	0.66	0.49	0.38		0.33
31		0.20		0.43	12		8.14		0.49	0.37		0.33
Total	8.52	9.42	4.60	11.95	111.25	847.30	2,243.46	91.68	17.86	13.00	9.51	11.08
Mean	0.284	0.305	0.153	0.385	3.59	28.2	72.4	3.06	0.576	0.419	0.339	0.357
Max.	0.40	0.35	0.29	0.79	12	139	151	7.72	0.66	0.49	0.37	0.38
Min.	0.20	0.20	0.08	0.17	0.37	9.40	8.14	0.66	0.49	0.37	0.30	0.32
Runoff - mcm.	0.736	0.814	0.397	1.032	9.612	73.207	193.835	7.921	1.543	1.123	0.822	0.957

WATER YEAR 1954 : Max. 151 Min. 0.08 Mean 9.26 Annual Runoff 292.000 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	15.00	165.56	153				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MUN RIVER BASIN

Mun 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 Iha Chang School and 30 meters south of railway pumping station, Amphoe Chakkarat, Nakhon Ratchasima.

Drainage Area: 4,800 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +158.50 m. (M.S.L.)

Bench Mark: B.M. – M.S./R.I.D. No.1004

Location: 10 meters from left bank along 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, 1969 to date.
Rated by Float: –
Rated by Current Meter: 1960, 1969 to date.

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

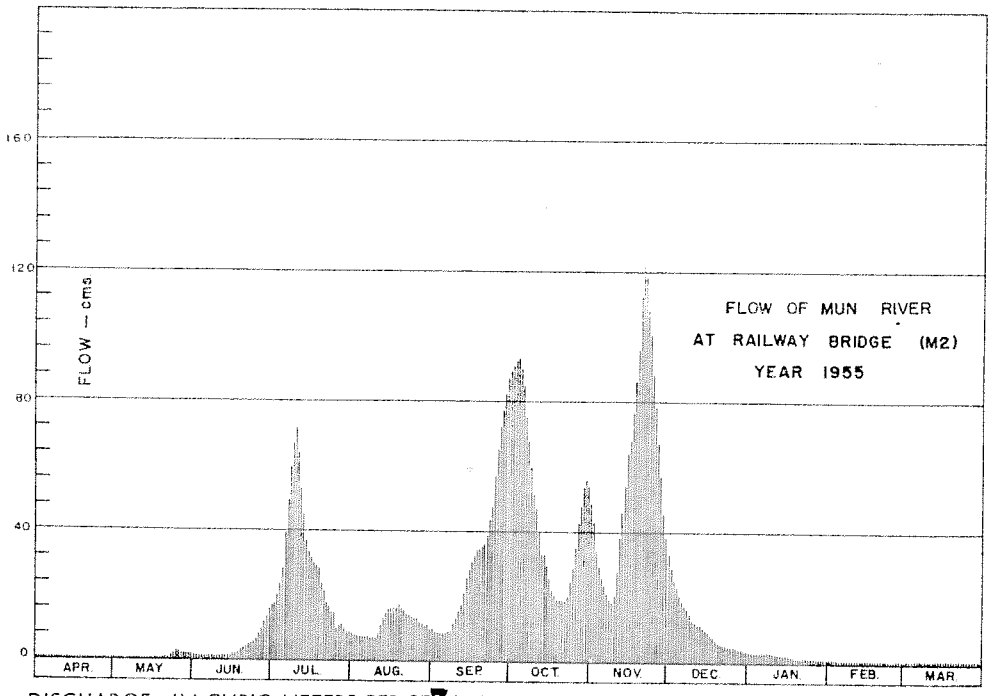
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions for irrigation except those built by local residents. No adjustments made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.37	159.31	159.96	162.08	161.19	161.37	164.86	163.75	163.16	160.38	159.71	159.58
2	.37	.29	.94	.15	.14	.30	.88	.54	162.88	.36	.70	.58
3	.37	.28	.93	.34	.09	.23	.91	.23	.67	.34	.69	.57
4	.36	.28	.93	.65	.08	.19	.93	162.98	.53	.32	.68	.56
5	.36	.27	.92	.95	.07	.18	.86	.73	.35	.31	.67	.56
6	159.36	159.27	159.91	163.27	161.07	161.24	164.76	162.53	162.23	160.29	159.67	159.55
7	.36	.26	.91	.80	.06	.28	.61	.41	.13	.27	.66	.54
8	.35	.26	.90	164.17	.05	.33	.42	.26	.03	.25	.66	.54
9	.35	.26	.90	.34	.04	.46	.17	.17	161.94	.24	.65	.53
10	.35	.26	.89	.44	.03	.67	163.93	.30	.73	.22	.65	.53
11	159.35	159.25	159.89	164.30	161.24	161.89	163.74	162.65	161.65	160.20	159.65	159.53
12	.34	.25	.88	163.97	.50	162.10	.45	163.15	.55	.17	.64	.52
13	.34	.25	.88	.67	.75	.33	.16	.71	.49	.13	.64	.52
14	.34	.25	.89	.35	.90	.70	.11	.88	.41	.10	.63	.51
15	.34	.28	.95	.21	.96	.80	162.95	164.21	.34	.08	.63	.51
16	159.34	159.33	159.99	163.10	161.99	162.98	162.69	164.34	161.28	160.05	159.63	159.50
17	.33	.42	160.07	162.99	.96	163.10	.51	.57	.17	.01	.62	.50
18	.33	.45	.19	.91	162.03	.18	.39	.76	.06	159.98	.62	.49
19	.33	.47	.37	.85	.08	.20	.30	.95	160.98	.95	.62	.49
20	.33	.48	.55	.67	.02	.24	.28	165.13	.87	.91	.61	.49
21	159.33	159.53	160.63	162.45	161.89	163.31	162.28	165.33	160.80	159.88	159.61	159.49
22	.33	.75	.65	.17	.81	.36	.32	.28	.73	.86	.61	.48
23	.32	.91	.76	.00	.76	.61	.39	.15	.70	.84	.61	.47
24	.32	160.21	.83	161.88	.71	.75	.64	164.97	.67	.82	.60	.46
25	.32	.35	.92	.78	.67	.97	.92	.85	.64	.82	.60	.45
26	159.32	160.35	161.16	161.66	161.67	164.29	163.28	164.68	160.61	159.77	159.60	159.44
27	.32	.19	.31	.51	.61	.49	.55	.32	.57	.75	.60	.44
28	.32	.12	.57	.46	.50	.60	.76	163.91	.54	.73	.59	.44
29	.31	.10	.77	.39	.49	.72	.94	.65	.49	.72	.59	.43
30	.31	.04	.90	.30	.46	.82	164.03	.39	.43	.72		.42
31		.00		.22	.42		163.95		.39	.72		.42
Mean	159.34	159.57	160.38	162.71	161.52	162.72	163.57	163.83	161.39	160.04	159.63	159.50
Max.	159.37	160.35	161.90	164.44	162.08	164.82	164.93	165.33	163.16	160.38	159.71	159.58
Min.	159.31	159.25	159.88	161.22	161.03	161.18	162.28	162.17	160.39	159.72	159.59	159.42

WATER YEAR 1955 : Max. 165.33 m. Min. 159.25 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.32	0.23	1.56	17	8.14	9.70	89	47	35	3.11	0.87	0.61
2	0.32	0.21	1.49	17	7.84	9.00	90	42	28	3.03	0.85	0.61
3	0.32	0.21	1.46	20	7.52	8.44	92	35	25	2.94	0.83	0.59
4	0.30	0.20	1.46	24	7.44	8.14	93	30	23	2.86	0.81	0.57
5	0.30	0.19	1.43	29	7.36	8.08	89	26	20	2.81	0.79	0.57
6	0.30	0.19	1.40	35	7.36	8.52	84	23	18	2.73	0.19	0.55
7	0.30	0.18	1.40	49	7.28	8.84	77	21	17	2.64	0.77	0.54
8	0.29	0.18	1.37	60	7.20	9.30	70	19	16	2.56	0.77	0.54
9	0.29	0.18	1.37	67	7.12	11	60	18	15	2.52	0.74	0.52
10	0.29	0.18	1.34	71	7.04	13	55	19	13	2.45	0.74	0.52
11	0.29	0.17	1.34	65	8.52	15	47	25	12	2.35	0.74	0.52
12	0.28	0.17	1.31	54	11	17	39	33	11	2.24	0.72	0.50
13	0.28	0.17	1.31	45	13	19	33	46	11	2.10	0.72	0.50
14	0.28	0.17	1.34	37	15	25	32	51	10	2.00	0.70	0.49
15	0.28	0.20	1.46	34	16	27	29	62	9.40	1.94	0.70	0.49
16	0.28	0.26	1.65	32	16	30	25	67	8.84	1.84	0.70	0.47
17	0.26	0.38	1.90	30	16	32	22	76	8.02	1.71	0.68	0.47
18	0.26	0.41	2.31	29	16	34	20	84	7.28	1.62	0.68	0.46
19	0.26	0.44	3.07	28	17	34	19	94	6.64	1.52	0.68	0.46
20	0.26	0.45	3.94	25	16	35	19	105	5.79	1.40	0.66	0.46
21	0.26	0.52	4.36	21	15	36	19	122	5.32	1.31	0.66	0.46
22	0.26	0.96	4.46	18	14	37	19	117	4.91	1.25	0.66	0.45
23	0.25	1.40	5.07	16	14	43	20	106	4.73	1.19	0.66	0.44
24	0.25	2.39	5.52	15	13	47	24	95	4.57	1.14	0.64	0.43
25	0.25	2.98	6.16	14	13	54	29	88	4.41	1.08	0.64	0.41
26	0.25	2.98	7.96	13	13	65	36	80	4.25	1.00	0.64	0.40
27	0.25	2.31	9.10	11	12	73	42	66	4.04	0.96	0.64	0.40
28	0.25	2.07	12	11	11	77	48	52	3.89	0.92	0.62	0.40
29	0.23	2.00	14	9.90	11	82	53	45	3.63	0.90	0.62	0.39
30	0.23	1.81	15	9.00	11	87	56	38	3.34	0.90		0.38
31		1.68		8.36	10		53		3.16	0.90		0.38
Total	8.24	25.87	117.54	914.26	355.82	963.02	1,481	1,732	344.22	57.90	20.66	14.98
Mean	0.274	0.834	3.92	29.5	11.5	32.1	47.8	57.7	11.1	1.87	0.713	0.483
Max.	0.32	2.98	15	71	17	87	93	122	33	3.11	0.87	0.61
Min.	0.23	0.17	1.31	8.36	7.04	8.08	19	18	3.16	0.90	0.62	0.38
Runoff — mcm.	0.712	2.235	10.155	78.992	30.743	83.205	127.958	149.645	29.741	5.003	1.785	1.294

WATER YEAR 1955 : Max. 122 Min. 0.17 Mean 16.5 Annual Runoff 521.468 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nove. 21	15.00	165.36	126				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MUN RIVER BASIN

Mun 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.

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 left bank along 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, 1969 to date.
Rated by Float: -
Rated by Current Meter: 1960, 1969 to date.

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

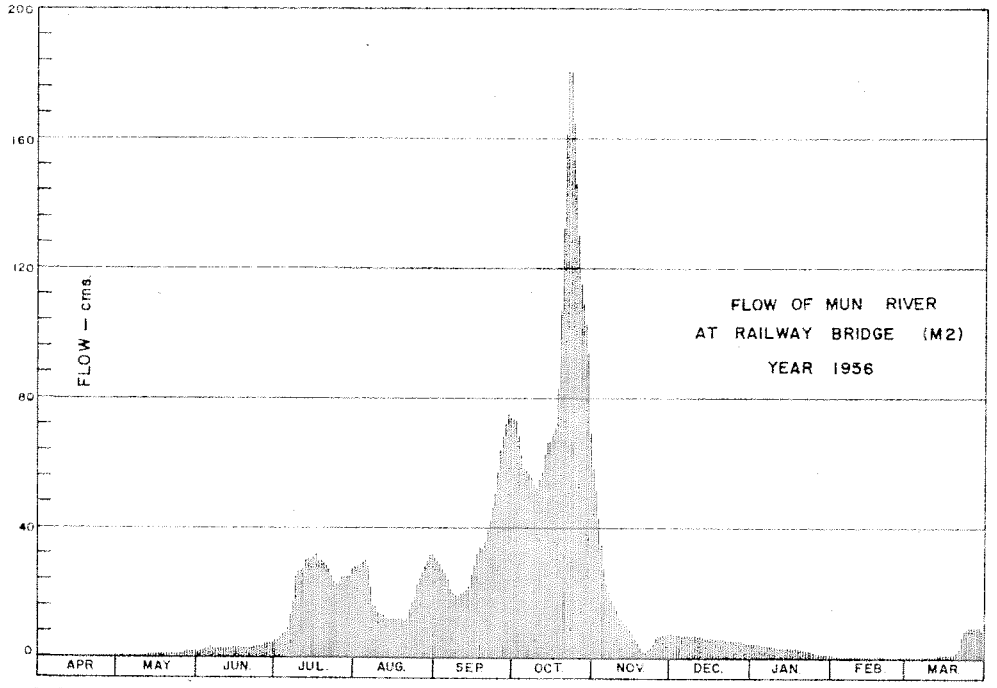
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1960. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.41	159.52	160.13	160.75	162.89	163.07	164.50	164.03	161.06	160.63	159.70	159.38
2	.40	.53	.18	.77	.89	162.97	.49	163.87	.05	.61	.64	.39
3	.39	.54	.24	.92	.92	.88	.24	.42	.04	.61	.59	.40
4	.39	.55	.30	161.07	.95	.79	.21	.01	.03	.60	.55	.41
5	.38	.56	.37	.12	.98	.74	.12	162.68	.02	.52	.50	.42
6	159.38	159.58	160.42	161.29	162.84	162.60	164.10	162.49	161.01	160.47	159.46	159.46
7	.37	.59	.39	.63	.34	.41	.07	.31	.00	.45	.45	.48
8	.37	.61	.35	162.22	161.99	.36	.02	.17	160.99	.43	.44	.52
9	.37	.62	.33	.69	.85	.32	163.94	.02	.99	.41	.43	.55
10	.36	.64	.36	.79	.77	.30	.90	161.86	.97	.40	.43	.59
11	159.36	159.66	160.36	162.80	161.72	162.36	163.95	161.68	160.97	160.38	159.43	159.63
12	.36	.67	.37	.86	.68	.39	164.07	.55	.96	.36	.42	.65
13	.35	.68	.38	.92	.65	.43	.21	.49	.95	.34	.41	.68
14	.35	.68	.39	163.04	.63	.50	.31	.41	.94	.31	.41	.71
15	.35	.69	.40	.00	.60	.65	.36	.27	.93	.29	.41	.79
16	159.36	159.69	160.41	163.03	161.59	162.94	164.41	161.05	160.92	160.27	159.40	159.77
17	.37	.69	.40	.08	.58	163.11	.40	160.81	.91	.25	.40	.78
18	.37	.70	.37	.02	.56	.21	.65	.58	.90	.23	.39	.80
19	.39	.70	.36	162.98	.56	.14	165.05	.31	.88	.21	.39	.83
20	.39	.71	.36	.92	.59	.24	.42	.04	.87	.19	.39	.95
21	159.40	159.74	160.38	162.88	161.62	163.44	165.61	160.08	160.85	160.16	159.39	160.41
22	.40	.78	.40	.78	.85	.54	.69	.27	.83	.11	.39	.90
23	.42	.78	.42	.67	162.06	.69	.69	.47	.81	.08	.39	161.17
24	.43	.83	.50	.58	.21	.85	.57	.71	.79	.05	.38	.28
25	.45	.89	.52	.53	.52	164.08	.57	.90	.77	.02	.38	.31
26	159.46	159.96	160.55	162.60	162.70	164.24	165.38	160.96	160.75	159.98	159.36	161.33
27	.47	.99	.59	.67	.77	.35	.25	161.01	.73	.93	.37	.34
28	.48	160.01	.60	.70	.88	.47	.17	.04	.71	.89	.37	.35
29	.49	.04	.65	.63	163.01	.54	.06	.07	.69	.84		.35
30	.50	.06	.71	.68	.10	.50	164.92	.07	.67	.80		.27
31		.08		.88	.09		.38		.65	.74		.12
Mean	159.40	159.73	160.41	162.40	162.24	163.17	164.67	161.52	160.89	160.24	159.44	160.16
Max.	159.50	160.08	160.71	163.08	163.10	164.54	165.69	164.03	161.06	160.63	159.70	161.35
Min.	159.35	159.52	160.13	160.75	161.55	162.30	163.90	160.04	160.65	159.74	159.37	159.38

WATER YEAR 1956 : Max. 165.69 m. Min. 159.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.37	0.50	3.10	5.02	28	31	72	56	7.28	4.36	0.85	0.33
2	0.36	0.52	3.28	5.13	28	30	75	51	7.10	4.25	0.72	0.35
3	0.35	0.54	3.02	6.16	29	28	67	48	7.12	4.25	0.62	0.36
4	0.35	0.55	2.77	6.28	29	27	62	50	7.04	4.20	0.55	0.37
5	0.35	0.57	3.07	7.22	30	26	59	25	6.96	3.78	0.47	0.38
6	0.33	0.61	3.30	8.92	28	24	58	22	6.88	3.59	0.45	0.43
7	0.32	0.62	3.16	15	20	21	57	19	6.80	3.44	0.41	0.45
8	0.32	0.66	2.98	18	18	20	55	18	6.72	3.34	0.40	0.50
9	0.32	0.68	2.90	25	14	19	53	16	6.72	3.25	0.59	0.55
10	0.30	0.72	3.08	27	14	19	52	15	6.56	3.20	0.59	0.62
11	0.30	0.77	3.08	27	13	20	55	13	6.56	3.11	0.59	0.70
12	0.29	0.79	3.07	28	15	20	62	11	6.48	3.03	0.38	0.74
13	0.29	0.82	3.11	50	12	21	62	13	6.40	2.99	0.57	0.81
14	0.29	0.81	3.16	52	12	22	66	10	6.32	2.81	0.37	0.87
15	0.29	0.83	3.20	50	12	25	97	8.36	6.24	2.75	0.57	1.05
16	0.30	0.83	3.25	51	12	29	69	7.20	6.16	2.64	0.36	1.00
17	0.32	0.83	3.20	52	12	35	69	6.39	6.08	2.56	0.36	1.02
18	0.32	0.85	3.07	53	12	34	79	4.10	6.00	2.64	0.35	1.08
19	0.35	0.85	3.05	50	12	33	100	2.81	5.85	2.59	0.35	1.17
20	0.35	0.87	3.05	29	11	35	145	1.81	5.80	2.31	0.35	1.52
21	0.36	0.94	3.11	28	12	39	162	1.94	5.66	2.21	0.35	1.52
22	0.36	1.02	3.20	27	14	42	180	2.64	5.52	2.03	0.35	6.60
23	0.38	1.02	3.50	25	17	46	180	3.54	5.39	1.94	0.35	8.02
24	0.36	1.17	3.68	23	19	50	160	4.79	5.25	1.84	0.33	8.84
25	0.41	1.24	3.78	23	22	57	129	6.00	5.15	1.94	0.83	9.10
26	0.43	1.52	3.84	24	25	65	128	6.46	5.02	1.62	0.30	9.30
27	0.44	1.65	4.15	25	26	67	114	6.88	4.91	1.46	0.32	9.40
28	0.45	1.71	4.20	25	28	72	108	7.12	4.79	1.34	0.32	9.50
29	0.46	1.81	4.46	25	30	75	101	7.36	4.68	1.20		9.50
30	0.47	1.87	4.79	25	32	73	92	7.36	4.56	1.08		8.76
31		1.94		28	32		68		4.46	0.94		7.72
Total	10.61	30.20	97.87	699.23	613	1,100	2,792	419.18	186.56	82.01	11.53	185.69
Mean	0.355	0.974	3.26	22.5	19.8	36.7	90.1	14.0	6.11	2.68	0.410	5.34
Max.	0.47	1.94	4.79	52	52	75	180	56	7.28	4.36	0.85	9.50
Min.	0.29	0.50	2.10	5.02	11	19	52	1.81	4.46	0.94	0.30	0.33
Runoff — MCM.	0.917	2.609	8.456	60.415	52.913	95.040	241.229	36.217	16.119	7.086	0.996	9.959

WATER YEAR 1956 : Max. 180 Min. 0.29 Mean 16.8 Annual Runoff 531.004 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 22	15.00	165.70	182				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
MUN RIVER BASIN

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

Location: Lat 15° - 13' - 17" N, Long 104° - 51' - 39" E, on left back at abutment of Seri Prachatipathai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.10 m. (M.S.L.)

Bench Mark: B.M. - H.S. M.7

Location: On left bank near bridge.
Elevation: +113.517 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: 1944 to date.

Rating Operation:

Period of Rating: 1956, 1958, 1964 - 69
Rated by Float: -
Rated by Current Meter: 1956, 1958, 1964 - 69

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

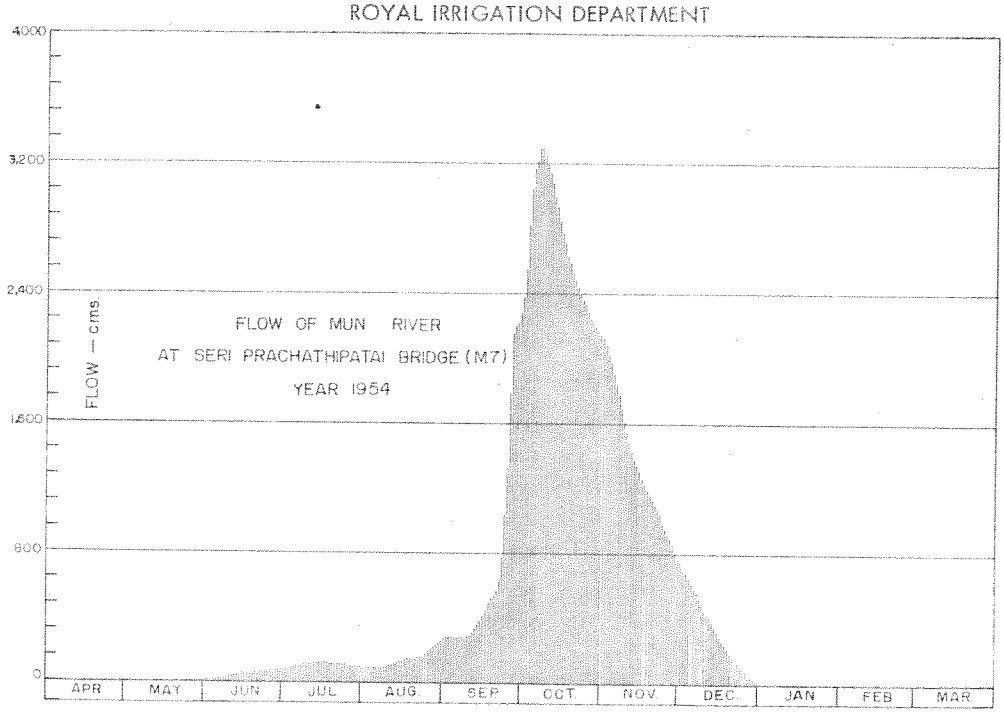
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1958. No upstream state diversions for irrigation except those for series of tank irrigation, 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, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.30	106.30	106.44	106.88	106.96	106.62	112.45	111.93	108.86	106.43	106.30	106.30
2	.30	.30	.46	.89	.95	.66	.76	.84	.78	.40	.30	.30
3	.30	.30	.48	.90	.95	.66	113.06	.73	.70	.38	.30	.30
4	.30	.30	.50	.93	.96	.66	.28	.62	.62	.36	.30	.30
5	.30	.30	.51	.95	.96	.65	.39	.49	.54	.34	.30	.30
6	106.30	106.30	106.52	106.97	106.97	107.65	118.44	111.34	108.46	106.32	106.30	106.30
7	.30	.30	.55	.99	.98	.66	.50	.18	.39	.30	.30	.30
8	.30	.30	.56	107.01	.99	.65	.50	.02	.31	.30	.30	.30
9	.30	.30	.59	.03	107.00	.64	.47	110.86	.23	.30	.30	.30
10	.30	.30	.62	.05	.02	.66	.42	.70	.15	.30	.30	.30
11	106.30	106.31	106.65	107.07	107.04	107.70	113.36	110.54	108.07	106.30	106.30	106.30
12	.30	.32	.68	.09	.05	.75	.30	.41	107.99	.30	.30	.30
13	.30	.33	.70	.09	.08	.82	.21	.32	.91	.30	.30	.30
14	.30	.33	.71	.09	.11	.89	.13	.22	.83	.30	.30	.30
15	.30	.34	.72	.09	.13	.97	.05	.14	.75	.30	.30	.30
16	106.30	106.35	106.74	107.10	107.16	108.06	112.98	110.06	107.67	106.30	106.30	106.30
17	.30	.36	.74	.10	.20	.16	.91	109.97	.59	.30	.30	.30
18	.30	.38	.75	.09	.20	.25	.82	.87	.52	.30	.30	.30
19	.30	.39	.76	.08	.20	.35	.74	.81	.44	.30	.30	.30
20	.30	.39	.77	.08	.19	.58	.66	.73	.36	.30	.30	.30
21	106.30	106.40	106.78	107.07	107.21	108.46	112.58	109.66	107.28	106.30	106.30	106.30
22	.30	.40	.79	.06	.24	.66	.51	.58	.20	.30	.30	.30
23	.30	.41	.80	.05	.27	109.02	.44	.50	.12	.30	.30	.30
24	.30	.41	.81	.04	.30	.61	.38	.42	.04	.30	.30	.30
25	.30	.41	.82	.03	.34	110.31	.32	.34	106.96	.30	.30	.30
26	106.30	106.41	106.83	107.02	107.38	111.20	112.26	109.26	106.88	106.30	106.30	106.30
27	.30	.41	.84	.01	.42	.87	.18	.16	.80	.30	.30	.30
28	.30	.41	.85	.00	.46	112.10	.12	.10	.72	.30	.30	.30
29	.30	.42	.86	106.99	.50	.14	.07	.02	.64	.30		.30
30	.30	.42	.87	.98	.54	.25	.03	108.94	.56	.30		.30
31		.43		.97	.58		111.99		.48	.30		.30
Mean	106.30	106.35	106.69	107.02	107.17	108.75	112.82	110.26	107.67	106.31	106.30	106.30
Max.	106.30	106.43	106.87	107.10	107.58	112.25	113.50	111.93	108.86	106.43	106.30	106.30
Min.	106.30	106.30	106.44	106.88	106.95	106.62	111.99	108.94	106.48	106.30	106.30	106.30

WATER YEAR 1954 : Max. 113.50 m. Min. 106.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.00	4.00	16	84	100	277	2,394	2,114	747	15	3.80	3.80
2	4.00	4.00	18	86	98	290	2,596	2,069	714	11	3.80	3.80
3	4.00	4.00	20	88	98	290	2,834	2,016	680	10	3.80	3.80
4	4.00	4.00	22	94	100	290	3,047	1,965	646	8.30	3.80	3.80
5	4.00	4.00	23	98	100	287	3,165	1,903	614	6.80	3.80	3.80
6	4.00	4.00	25	102	102	287	3,220	1,835	586	5.30	3.80	3.80
7	4.00	4.00	26	106	104	290	3,287	1,753	554	3.80	3.80	3.80
8	4.00	4.00	30	110	106	287	3,287	1,690	522	3.80	3.80	3.80
9	4.00	4.00	34	114	108	284	3,254	1,619	490	3.80	3.80	3.80
10	4.00	4.00	38	118	112	290	3,198	1,547	460	3.80	3.80	3.80
11	4.00	5.00	43	122	116	304	3,133	1,477	432	3.80	3.80	3.80
12	4.00	5.00	47	126	118	321	3,068	1,419	404	3.80	3.80	3.80
13	4.00	6.00	50	126	124	345	2,976	1,371	376	3.80	3.80	3.80
14	4.00	6.00	52	126	130	369	2,899	1,336	348	3.80	3.80	3.80
15	4.00	7.00	54	126	135	397	2,825	1,301	321	3.80	3.80	3.80
16	4.00	8.00	57	128	142	428	2,759	1,265	294	3.80	3.80	3.80
17	4.00	8.00	57	128	152	464	2,704	1,226	267	3.80	3.80	3.80
18	4.00	10	59	126	152	498	2,639	1,182	244	3.80	3.80	3.80
19	4.00	11	61	124	152	530	2,581	1,155	220	3.80	3.80	3.80
20	4.00	11	63	124	150	550	2,527	1,120	196	3.80	3.80	3.80
21	4.00	11	64	122	155	582	2,474	1,089	173	3.80	3.80	3.80
22	4.00	11	66	120	162	665	2,430	1,054	152	3.80	3.80	3.80
23	4.00	12	68	118	170	814	2,388	1,020	133	3.80	3.80	3.80
24	4.00	12	70	116	178	1,067	2,353	986	116	3.80	3.80	3.80
25	4.00	12	72	114	190	1,375	2,320	951	100	3.80	3.80	3.80
26	4.00	12	74	112	202	1,772	2,286	917	84	3.80	3.80	3.80
27	4.00	12	76	110	214	2,134	2,243	882	68	3.80	3.80	3.80
28	4.00	12	78	108	226	2,200	2,210	848	54	3.80	3.80	3.80
29	4.00	13	80	106	238	2,221	2,184	814	41	3.80	3.80	3.80
30	4.00	13	82	104	250	2,281	2,164	781	30	3.80	3.80	3.80
31		15		102	264		2,144		20	3.80		3.80
Total	120	252	1,525	3,488	4,648	22,187	83,589	40,713	10,086	147.60	106.40	117.80
Mean	4.00	8.12	50.8	112	150	739	2,696	1,357	325	4.76	3.80	3.80
Max.	4.00	15	82	128	264	2,281	3,287	2,144	747	15	3.80	3.80
Min.	4.00	4.00	16	84	98	277	2,144	781	20	3.80	3.80	3.80
Runoff - mcm.	10.368	21.773	131.760	301.363	401.587	1,916.957	7,220.090	3,517.603	871.430	12.753	9.193	10.178

WATER YEAR 1954 : Max. 3,287 Min. 3.80 Mean 458 Annual Runoff 14,433.742mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 7	18.00	113.50	3,287				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MUN RIVER BASIN

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

Location: Lat 15°- 13' - 17" N, Long 104°- 51' - 39" E, on left bank at abutment of Seri Prachathipathai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.10 m. (M.S.L.)

Bench Mark: B.M. - M.S. M.7

Location: On left bank near bridge.
Elevation: +113.317 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: 1944 to date.

Rating Operation:

Period of Rating: 1956, 1958, 1964 - 69
Rated by Float: -
Rated by Current Meter: 1956, 1958, 1964 - 69

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

Overbank Flow Conditions: No overbank flow.

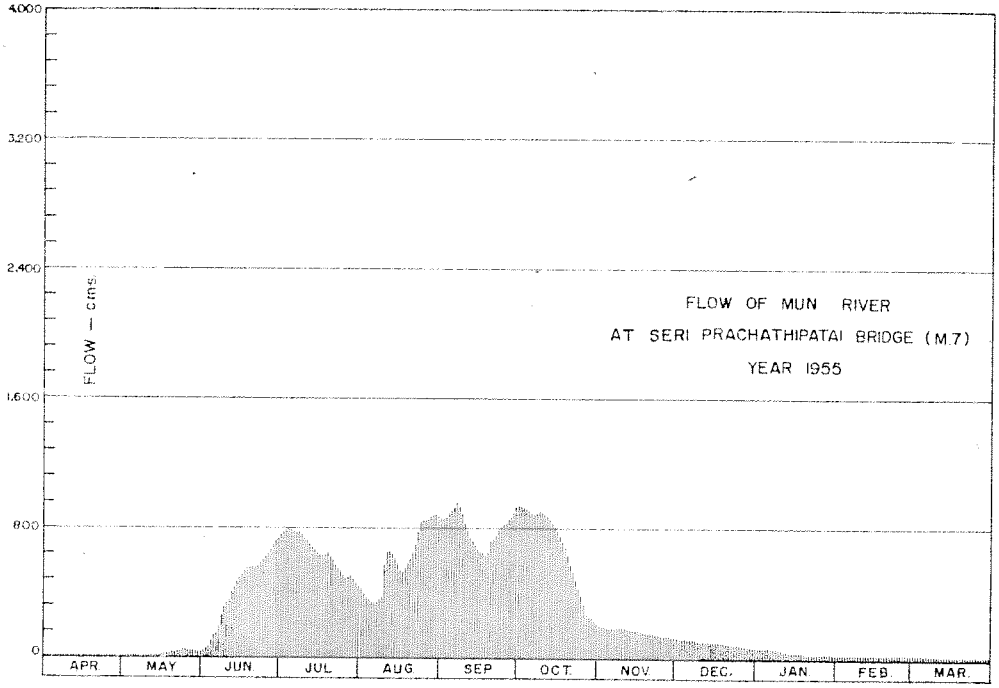
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation except those for series of tank irrigation, total of 140 tanks with capacity of 420 MCM. and irrigated area of 64,200 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.30	106.35	106.65	108.90	108.05	108.13	109.32	107.37	107.08	106.78	106.51	106.47
2	.30	.35	.66	.93	107.97	.11	.30	.35	.07	.78	.50	.46
3	.30	.35	.81	.95	.91	.14	.28	.35	.06	.78	.50	.46
4	.30	.35	107.03	.97	.87	.19	.26	.34	.06	.78	.50	.45
5	.30	.37	.13	.97	.83	.25	.23	.34	.05	.78	.49	.45
6	106.30	106.37	107.22	108.96	107.80	108.30	109.21	107.33	107.04	106.77	106.49	106.44
7	.30	.38	.31	.94	.65	.36	.18	.32	.03	.77	.49	.44
8	.30	.37	.34	.94	.87	.20	.20	.32	.02	.76	.48	.43
9	.30	.37	.73	.90	.94	.17	.23	.31	.01	.75	.48	.43
10	.30	.38	.80	.84	108.44	.06	.21	.31	.01	.72	.47	.43
11	106.30	106.38	107.87	108.80	108.64	108.04	109.18	107.30	106.99	106.67	106.46	106.45
12	.30	.39	108.03	.75	.63	.02	.16	.29	.99	.61	.48	.42
13	.30	.40	.08	.71	.58	.39	.11	.29	.98	.63	.48	.42
14	.30	.42	.18	.67	.54	.73	.06	.28	.97	.64	.48	.42
15	.30	.44	.25	.64	.47	.66	.09	.27	.97	.64	.49	.42
16	106.30	106.45	108.29	108.60	108.34	108.63	108.93	107.26	107.96	106.62	106.49	106.42
17	.30	.46	.35	.57	.33	.61	.85	.24	.95	.61	.50	.42
18	.30	.47	.37	.60	.39	.59	.78	.23	.94	.59	.50	.41
19	.30	.48	.39	.64	.46	.63	.68	.22	.93	.57	.51	.41
20	.30	.50	.40	.55	.54	.80	.55	.21	.92	.56	.51	.41
21	106.30	106.51	108.41	108.49	108.63	108.83	108.42	107.20	106.91	106.55	106.50	106.41
22	.30	.62	.43	.43	.73	.89	.29	.18	.89	.54	.49	.41
23	.30	.66	.47	.38	.66	.95	.17	.17	.88	.54	.49	.41
24	.30	.70	.50	.33	109.08	109.01	.06	.16	.88	.53	.49	.41
25	.30	.70	.55	.27	.10	.04	107.91	.14	.87	.53	.48	.41
26	106.30	106.68	108.62	108.23	109.10	109.07	107.78	107.13	106.86	106.52	106.48	106.41
27	.30	.65	.69	.25	.12	.11	.67	.12	.85	.52	.48	.41
28	.34	.61	.75	.26	.15	.16	.55	.11	.84	.52	.48	.40
29	.34	.60	.80	.22	.18	.23	.52	.10	.82	.51	.47	.40
30	.34	.58	.86	.15	.19	.30	.46	.10	.81	.51		.40
31		.60		.11	.17		.40		.80	.51		.39
Mean	106.30	106.49	108.00	108.61	108.51	108.99	108.64	107.24	106.95	106.63	106.49	106.42
Max.	106.34	106.70	108.86	108.97	109.19	109.36	109.32	107.37	107.08	106.78	106.51	106.47
Min.	106.30	106.35	106.63	108.11	107.80	108.59	107.40	107.10	106.80	106.51	106.46	106.39

WATER YEAR 1955 : Max. 109.36 m. Min. 106.30 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.80	7.55	39	764	424	851	943	190	124	64	23	19
2	3.80	7.55	44	772	526	852	934	196	122	64	22	18
3	3.80	7.55	70	785	575	866	925	195	120	64	22	18
4	3.80	7.55	144	793	562	887	917	190	120	64	22	17
5	3.80	9.05	155	795	548	912	904	190	118	64	21	17
6	3.80	9.05	157	789	538	934	895	187	116	63	21	16
7	3.80	10	181	781	548	960	882	184	114	63	21	16
8	3.80	9.05	251	781	562	954	891	184	112	61	20	14
9	3.80	9.05	314	784	566	878	904	181	110	59	20	14
10	3.80	10	336	796	574	881	895	181	110	54	19	14
11	3.80	10	362	722	655	781	882	178	106	45	19	14
12	3.80	10	417	701	691	729	874	175	106	44	20	13
13	3.80	11	435	684	630	718	852	175	104	42	20	13
14	3.80	13	471	667	614	695	831	173	102	41	20	13
15	3.80	15	498	655	582	663	808	170	102	39	21	13
16	3.80	17	514	636	554	651	776	168	100	38	21	13
17	3.80	18	538	626	530	642	747	162	98	36	22	13
18	3.80	19	546	638	554	654	714	160	96	34	22	12
19	3.80	20	554	655	582	651	672	157	94	31	23	12
20	3.80	34	558	618	614	722	618	135	92	30	23	12
21	3.80	36	562	594	651	735	566	152	90	28	22	12
22	3.80	38	570	570	693	760	514	147	86	27	21	12
23	3.80	44	586	550	789	785	467	145	84	27	21	12
24	3.80	50	598	530	840	810	428	142	84	26	21	12
25	3.80	50	618	506	848	833	375	138	82	26	20	12
26	3.80	47	646	490	848	835	331	135	80	25	20	12
27	3.80	39	606	498	857	852	294	133	78	25	20	12
28	3.80	36	201	502	870	874	243	130	76	25	20	11
29	3.80	35	722	486	882	904	244	128	72	23	19	11
30	3.80	32	747	460	887	904	223	128	70	23		11
31		35		446	878		208		68	23		10
Total	129	695.40	12,962	20,902	18,906	24,081	20,756	4,936	3,036	1,278	606	418
Mean	3.50	22.4	452	645	610	801	669	164	97.9	41.2	20.8	13.4
Max.	6.80	50	747	795	887	960	943	199	124	64	23	19
Min.	3.80	7.55	39	446	538	654	208	128	68	23	19	10
Runoff - mcm.	11.146	59.975	1,119.917	1,728.173	1,633.478	2,576.278	1,793.318	426.470	262.310	110.419	52.358	36.115

WATER YEAR 1955 : Max. 960 Min. 3.80 Mean 294 Annual Runoff 9,309.859mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 7	18.00	109.56	960				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATFR YEAR 1956
MUN RIVER BASIN

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

Location: Lat 15°- 13' - 17" N, Long 104°- 51' - 39" E, on left bank at abutment of Seri Prachatipathai Bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.10 m. (M.S.L.)

Bench Mark: B.M. - H.S. M.7

Location: On left bank near bridge.
Elevation: +113.317 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: 1944 to date

Rating Operation:

Period of Rating: 1956, 1958, 1964 - 69
Rated by Float: -
Rated by Current Meter: 1956, 1958, 1964 - 69

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

Overbank Flow Conditions: No overbank flow.

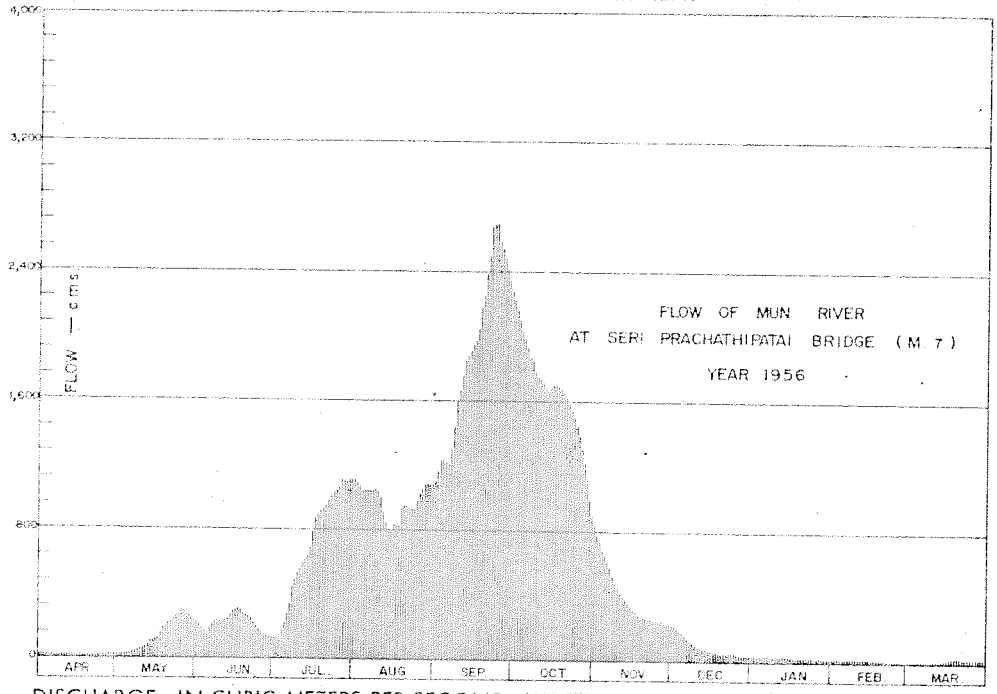
General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1958. No upstream state diversions for irrigation except those for series of tank irrigation total of 140 tanks with capacity of 420 MCM. and irrigation area of 64,200 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.39	106.48	107.43	107.13	109.70	109.70	112.12	109.07	107.44	106.63	106.51	106.42
2	.39	.50	.36	.15	.66	.88	.01	108.92	.41	.63	.50	.42
3	.38	.52	.30	.20	.60	110.01	111.88	.81	.38	.63	.50	.41
4	.33	.54	.24	.34	.53	.00	.75	.71	.33	.63	.49	.41
5	.37	.56	.19	.53	.56	109.95	.64	.61	.29	.62	.49	.40
6	106.37	106.58	107.34	107.63	109.55	110.00	111.53	108.52	107.23	106.62	106.49	106.40
7	.36	.61	.45	.79	.55	.23	.41	.41	.15	.62	.48	.40
8	.35	.64	.47	108.10	.56	.55	.33	.31	.08	.61	.48	.40
9	.34	.68	.47	.25	.59	.83	.23	.21	.03	.61	.48	.39
10	.35	.74	.48	.37	.55	.99	.16	.12	106.97	.61	.47	.39
11	106.36	106.76	107.48	108.43	109.41	111.21	111.11	108.02	106.93	106.59	106.47	106.39
12	.38	.80	.50	.52	.21	.38	.07	107.96	.90	.59	.47	.39
13	.38	.86	.53	.58	.08	.44	.00	.90	.87	.59	.47	.47
14	.38	.98	.59	.64	108.98	.52	110.99	.84	.84	.58	.46	.45
15	.40	107.00	.66	.75	.96	.59	111.02	.79	.82	.57	.46	.50
16	106.39	107.04	107.70	109.00	109.08	111.66	111.04	107.72	106.79	106.56	106.46	106.53
17	.39	.05	.71	.17	.05	.79	.04	.69	.78	.56	.46	.56
18	.39	.20	.68	.22	.05	112.10	.02	.64	.77	.56	.45	.60
19	.38	.35	.62	.28	.30	.25	110.99	.60	.76	.55	.45	.61
20	.38	.37	.60	.30	.34	.48	.94	.59	.75	.55	.45	.59
21	106.37	107.42	107.59	109.36	109.33	112.65	110.88	107.58	106.73	106.55	106.45	106.57
22	.39	.47	.52	.44	.30	.87	.79	.56	.72	.54	.44	.56
23	.40	.52	.43	.49	.29	.90	.69	.56	.72	.54	.44	.55
24	.40	.58	.35	.53	.28	.90	.68	.54	.71	.53	.44	.54
25	.41	.62	.30	.57	.40	.75	.47	.54	.70	.53	.44	.53
26	106.42	107.69	107.23	109.61	109.50	112.67	110.33	107.53	106.69	106.53	106.44	106.52
27	.43	.69	.16	.70	.59	.57	.16	.51	.68	.52	.43	.51
28	.44	.67	.12	.69	.65	.46	109.93	.48	.67	.52	.43	.50
29	.45	.65	.12	.69	.65	.34	.69	.47	.66	.52		.49
30	.46	.61	.10	.68	.65	.24	.41	.46	.65	.51		.48
31		.43		.71	.65		.18		.64	.51		.48
Mean	106.39	107.08	107.42	108.74	109.41	111.53	110.91	107.95	106.91	106.57	106.46	106.48
Max.	106.46	107.69	107.71	109.71	109.70	112.90	112.12	109.07	107.44	106.63	106.51	106.61
Min.	106.34	106.48	107.10	107.13	108.96	109.70	109.18	107.46	106.64	106.56	106.43	106.39

WATER YEAR 1956 : Max. 112.90 m. Min. 106.34 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	20	217	135	1,107	1,107	2,210	835	229	39	23	13
2	10	22	195	140	1,085	1,186	2,154	772	211	39	22	13
3	10	25	178	152	1,063	1,243	2,089	726	202	39	22	12
4	10	27	162	190	1,033	1,259	2,024	684	182	39	21	12
5	9	28	150	248	1,046	1,217	1,973	642	175	38	21	11
6	9	32	190	280	1,041	1,195	1,921	606	160	38	21	11
7	8	36	225	335	1,041	1,340	1,866	562	140	38	20	11
8	7	41	229	442	1,046	1,481	1,850	522	124	36	20	11
9	6	47	229	488	1,059	1,605	1,785	482	114	36	20	10
10	5	57	232	546	1,041	1,677	1,754	449	102	36	19	10
11	8	61	232	570	981	1,776	1,731	414	94	34	19	10
12	10	68	238	606	895	1,853	1,715	393	88	34	19	10
13	10	80	248	630	840	1,880	1,682	372	86	34	19	12
14	10	104	267	655	798	1,916	1,677	352	76	32	18	17
15	11	108	290	701	789	1,946	1,691	335	72	31	18	22
16	10	116	304	806	840	1,982	1,700	311	66	30	18	26
17	10	118	302	878	827	2,044	1,700	301	64	30	18	30
18	10	152	297	969	827	2,200	1,691	284	63	30	17	35
19	10	195	277	925	934	2,280	1,677	270	61	28	17	36
20	10	199	270	934	951	2,412	1,655	267	59	28	17	34
21	9	214	267	960	942	2,520	1,628	264	55	28	17	31
22	10	229	244	994	934	2,675	1,587	257	54	27	15	30
23	11	244	217	1,016	930	2,696	1,543	257	54	27	15	28
24	11	264	195	1,033	925	2,696	1,494	251	52	26	15	27
25	12	277	178	1,050	977	2,588	1,446	251	60	26	15	26
26	13	300	160	1,067	1,020	2,534	1,384	248	48	26	15	25
27	14	300	142	1,107	1,059	2,468	1,309	241	47	25	14	23
28	16	294	153	1,103	1,085	2,401	1,208	232	45	25	14	22
29	17	254	153	1,103	1,085	2,331	1,103	229	44	25		21
30	18	241	158	1,098	1,085	2,275	981	226	42	23		20
31		217		1,111	1,085		887		41	23		20
Total	314	4,370	6,541	22,213	30,580	58,763	51,093	12,055	2,906	970	509	619
Mean	10.4	141	218	716	980	1,959	1,648	401	93.7	31.2	18.1	19.9
Max.	18	300	307	1,111	1,107	2,696	2,210	835	229	39	23	36
Min.	5	20	153	135	789	1,107	887	226	41	23	14	10
Runoff - mcm.	27.1	378.8	565	1,919	2,625	5,077	4,414	1,040	250	84	44	53.5

WATER YEAR 1956 : Max. 2,696 Min. 5 Mean 522 Annual Runoff 16,477 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 23	18.00	112.90	2,696				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
MUN 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 bridge 200 meters north of city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m. (M.S.L.)

Bench Mark: B.M. - No.0389

Location: At 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: 1951, 1954 - 59

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 year without actual ratings.

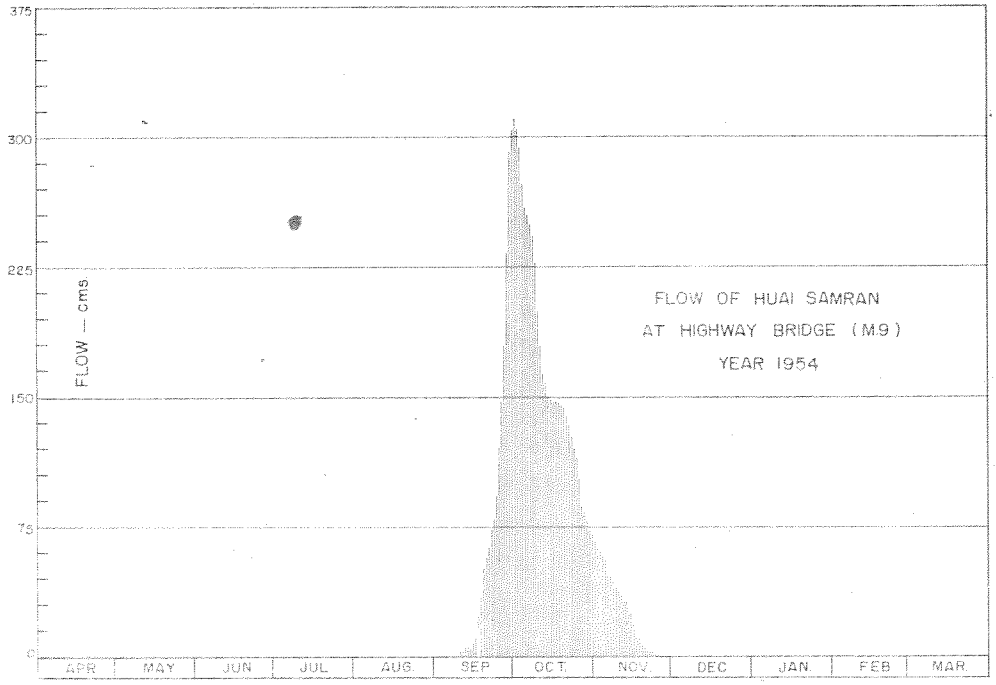
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.40	109.49	109.62	109.47	109.45	109.70	118.45	114.95	109.67	109.41	109.67	109.40
2	.40	.48	.62	.45	.45	.74	.38	.84	.63	.44	.48	.40
3	.41	.49	.61	.60	.46	.94	.24	.79	.60	.45	.48	.40
4	.41	.48	.61	.56	.47	110.16	.13	.74	.57	.45	.50	.58
5	.44	.50	.58	.52	.45	.19	.01	.56	.55	.42	.47	.55
6	109.44	109.50	109.58	109.48	109.45	110.37	118.04	114.90	109.55	109.40	109.46	109.52
7	.41	.49	.53	.48	.46	.42	.00	.20	.52	.40	.43	.49
8	.40	.49	.61	.49	.48	.58	117.87	.11	.50	.40	.40	.45
9	.40	.48	.58	.50	.48	.95	.65	113.97	.56	.85	.42	.44
10	.40	.48	.54	.50	.45	111.45	.43	.89	.50	.74	.43	.41
11	109.40	109.48	109.54	109.49	109.45	111.51	117.19	113.74	109.49	109.54	109.41	109.40
12	.53	.49	.54	.48	.44	.55	116.93	.63	.48	.52	.40	.40
13	.55	.50	.54	.46	.45	.61	.91	.58	.45	.51	.67	.40
14	.54	.50	.54	.45	.48	.71	.72	.42	.45	.54	.63	.40
15	.50	.60	.54	.44	.46	112.01	.77	.17	.44	.50	.61	.39
16	109.49	109.58	109.54	109.45	109.46	112.45	116.76	112.83	109.44	109.48	109.57	109.39
17	.49	.54	.53	.46	.62	113.18	.76	.47	.45	.46	.55	.39
18	.46	.54	.54	.47	.53	.84	.74	.25	.42	.44	.50	.41
19	.46	.52	.53	.48	.50	114.42	.72	.03	.46	.42	.50	.40
20	.85	.50	.54	.53	.50	.66	.70	111.76	.45	.41	.48	.40
21	109.74	109.48	109.56	109.53	109.48	114.79	116.63	111.51	109.44	109.41	109.45	109.45
22	.51	.48	.56	.54	.46	115.20	.51	.24	.43	.40	.44	.41
23	.58	.49	.54	.69	.45	.61	.40	.00	.43	.40	.40	.40
24	.51	.63	.53	.63	.61	.99	.30	110.72	.41	.44	.40	.40
25	.50	.65	.51	.58	.69	116.43	.18	.50	.46	.45	.42	.41
26	109.49	109.59	109.51	109.55	109.66	117.01	115.84	110.22	109.40	109.44	109.43	109.38
27	.49	.64	.50	.49	.70	.36	.51	.00	.40	.42	.41	.40
28	.69	.59	.49	.48	.85	.94	.43	109.90	.42	.41	.40	.39
29	.67	.66	.48	.47	.91	118.27	.30	.86	.42	.40		.46
30	.56	.66	.47	.45	.91	.44	.14	.80	.42	.41		.44
31		.60		.45	.78		.07		.41	.61		.41
Mean	109.50	109.53	109.55	109.50	109.55	113.25	116.86	112.60	109.47	109.47	109.48	109.44
Max.	109.85	109.66	109.63	109.69	109.91	118.44	118.45	114.95	109.67	109.85	109.67	109.58
Min.	109.40	109.48	109.47	109.44	109.77	109.70	115.07	109.80	109.40	109.40	109.40	109.38

WATER YEAR 1954 : Max. 118.45 m. Min. 109.38 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.02	0.04	0.08	0.03	0.03	0.10	315	66	0.09	0.02	0.09	0.02
2	0.02	0.04	0.08	0.03	0.03	0.11	303	63	0.08	0.03	0.04	0.02
3	0.02	0.04	0.07	0.07	0.03	0.17	286	61	0.07	0.03	0.04	0.02
4	0.02	0.04	0.07	0.06	0.03	0.35	275	60	0.06	0.03	0.04	0.06
5	0.05	0.04	0.06	0.05	0.03	0.38	258	55	0.05	0.03	0.03	0.05
6	0.03	0.04	0.06	0.04	0.03	0.64	262	48	0.05	0.02	0.03	0.05
7	0.02	0.04	0.08	0.04	0.03	0.73	257	46	0.05	0.02	0.03	0.04
8	0.02	0.04	0.07	0.04	0.04	1.06	243	44	0.04	0.02	0.02	0.03
9	0.02	0.04	0.06	0.04	0.04	2.17	221	40	0.06	0.14	0.02	0.03
10	0.02	0.04	0.05	0.04	0.03	4.26	200	38	0.04	0.11	0.03	0.02
11	0.02	0.04	0.05	0.03	0.03	4.68	170	35	0.04	0.05	0.02	0.02
12	0.05	0.04	0.05	0.04	0.03	4.89	159	33	0.04	0.05	0.02	0.02
13	0.05	0.04	0.05	0.03	0.03	5.22	158	32	0.03	0.04	0.09	0.02
14	0.05	0.04	0.05	0.03	0.04	5.89	148	29	0.03	0.05	0.08	0.02
15	0.04	0.07	0.05	0.03	0.03	8.41	148	24	0.03	0.04	0.07	0.02
16	0.04	0.06	0.05	0.03	0.03	13	147	19	0.03	0.04	0.06	0.02
17	0.04	0.05	0.05	0.03	0.08	24	147	14	0.03	0.03	0.05	0.02
18	0.03	0.05	0.05	0.03	0.05	32	146	10	0.03	0.03	0.04	0.02
19	0.03	0.05	0.05	0.04	0.04	51	145	8.63	0.03	0.02	0.04	0.02
20	0.14	0.04	0.05	0.05	0.04	58	144	6.23	0.03	0.02	0.04	0.02
21	0.11	0.04	0.06	0.05	0.04	61	139	4.68	0.03	0.02	0.03	0.03
22	0.04	0.04	0.06	0.05	0.03	74	132	3.55	0.03	0.02	0.03	0.02
23	0.06	0.04	0.05	0.10	0.03	89	126	2.35	0.03	0.02	0.02	0.02
24	0.04	0.08	0.05	0.08	0.07	106	121	1.41	0.02	0.03	0.02	0.02
25	0.04	0.08	0.04	0.06	0.10	128	115	0.88	0.03	0.03	0.02	0.02
26	0.04	0.07	0.04	0.05	0.09	165	99	0.42	0.02	0.03	0.03	0.02
27	0.04	0.08	0.04	0.04	0.10	193	86	0.20	0.02	0.02	0.02	0.02
28	0.10	0.07	0.04	0.04	0.14	251	83	0.16	0.02	0.02	0.02	0.02
29	0.09	0.09	0.04	0.03	0.16	290	78	0.15	0.02	0.02		0.03
30	0.06	0.09	0.03	0.03	0.16	311	72	0.13	0.02	0.02		0.03
31		0.07		0.03	0.12		70		0.02	0.07		0.02
Total	1.33	1.65	1.65	1.34	1.79	1,890.06	5,258	745.57	1.17	1.12	1.07	0.79
Mean	0.04	0.05	0.05	0.04	0.06	63.0	170	24.8	0.04	0.04	0.04	0.02
Max.	0.14	0.09	0.08	0.10	0.16	311	315	66	0.09	0.14	0.09	0.05
Min.	0.02	0.04	0.03	0.03	0.03	0.10	70	0.13	0.02	0.02	0.02	0.02
Runoff — mcm.	0.115	0.141	0.141	0.116	0.155	163.301	454.291	64.417	0.101	0.097	0.092	0.068

WATER YEAR 1954 : Max. 313 Min. 0.02 Mean 21.6 Annual Runoff 683.035 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	12.00	118.46	314				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MUN 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 bridge 200 meters north of city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 5,026 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m. (M.S.L.)

Bench Mark: B.M. – No.0339

Location: At 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: 1951, 1954 – 59

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 year without actual ratings.

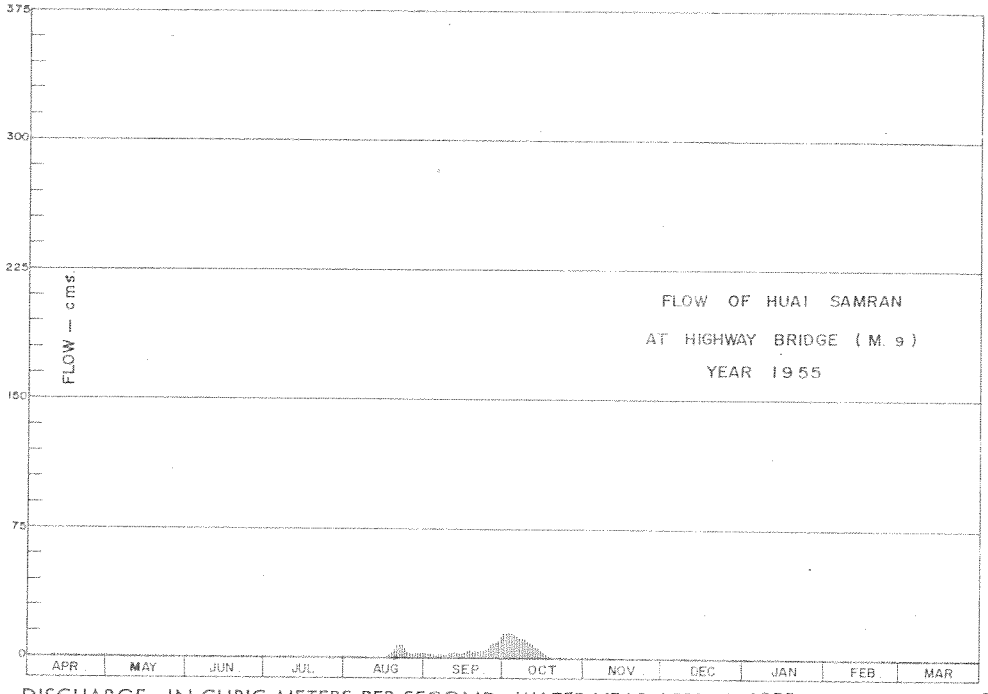
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.40	109.46	109.57	110.18	109.57	111.20	112.60	110.12	109.46	109.43	109.40	109.38
2	.40	.45	.84	.15	.56	.22	.59	.11	.46	.43	.39	.39
3	.41	.44	110.33	.13	.55	.19	.56	.10	.46	.43	.39	.39
4	.41	.43	.51	.12	.55	.16	.54	.05	.47	.43	.40	.39
5	.44	.40	.44	.26	.95	.15	.47	109.98	.47	.42	.40	.38
6	109.44	109.40	110.43	110.32	109.86	111.15	112.42	109.94	109.46	109.42	109.39	109.38
7	.41	.40	.42	.35	.72	.13	.36	.93	.46	.43	.40	.39
8	.40	.54	.40	.56	.67	.13	.35	.82	.45	.43	.40	.45
9	.40	.52	.35	.38	110.06	.12	.29	.81	.45	.43	.41	.45
10	.40	.50	.56	.36	.18	.19	.14	.79	.46	.42	.41	.44
11	109.40	109.49	110.58	110.37	110.17	111.18	112.07	109.75	109.46	109.42	109.42	109.44
12	.53	.46	.51	.36	.16	.19	.04	.71	.45	.42	.41	.42
13	.55	.43	.47	.33	.12	.19	111.90	.69	.45	.42	.40	.42
14	.54	.40	.44	.34	.27	.26	.73	.68	.45	.43	.40	.40
15	.50	.40	.39	.37	.49	.32	.55	.66	.46	.43	.39	.39
16	109.47	109.42	110.27	110.46	110.62	111.45	111.33	109.65	109.46	109.43	109.39	109.39
17	.45	.51	.17	.51	.74	.51	.06	.65	.45	.44	.39	.38
18	.45	.53	.15	.48	111.07	.52	110.76	.66	.46	.43	.40	.38
19	.42	.53	.13	.45	.39	.49	.59	.63	.45	.43	.40	.38
20	.42	.52	.13	.41	.79	.48	.44	.59	.45	.43	.40	.39
21	109.42	109.50	110.12	110.41	111.93	111.48	110.32	109.58	109.45	109.42	109.40	109.40
22	.43	.48	.29	.40	112.00	.49	.24	.57	.45	.43	.39	.39
23	.45	.45	.34	.35	111.94	.53	.21	.56	.44	.43	.39	.38
24	.44	.44	.39	.35	.59	.67	.22	.54	.44	.42	.38	.37
25	.42	.77	.67	.17	.39	.75	.20	.53	.44	.42	.38	.38
26	109.42	109.78	110.70	110.13	111.25	112.01	110.19	109.50	109.44	109.41	109.39	109.37
27	.40	.76	.60	.08	.23	.06	.17	.48	.43	.41	.39	.37
28	.41	.70	.47	109.96	.21	.08	.15	.47	.44	.41	.38	.38
29	.42	.65	.32	.86	.17	.25	.13	.42	.43	.41	.38	.38
30	.48	.63	.26	.68	.19	.44	.13	.47	.43	.41		.39
31		.59		.62	.21		.12		.43	.41		.37
Mean	109.44	109.51	110.34	110.24	110.66	111.47	111.28	109.72	109.45	109.42	109.41	109.39
Max.	109.55	109.78	110.70	110.51	112.00	112.44	112.60	110.12	109.47	109.44	109.42	109.45
Min.	109.40	109.40	109.57	109.62	109.55	111.12	110.12	109.47	109.43	109.41	109.38	109.37

WATER YEAR 1955 : Max. 112.60 m. Min. 109.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.02	0.03	0.06	0.37	0.06	3.15	15	0.50	0.03	0.03	0.02	0.02
2	0.02	0.03	0.14	0.35	0.06	3.24	15	0.29	0.03	0.03	0.02	0.02
3	0.02	0.03	0.57	0.31	0.05	3.10	15	0.28	0.03	0.03	0.02	0.02
4	0.02	0.03	0.90	0.30	0.05	2.97	15	0.24	0.03	0.03	0.02	0.02
5	0.03	0.02	0.77	0.47	0.17	2.92	14	0.18	0.03	0.02	0.02	0.02
6	0.03	0.02	0.75	0.55	0.15	2.92	13	0.17	0.03	0.02	0.02	0.02
7	0.02	0.02	0.73	0.60	0.10	2.85	12	0.17	0.03	0.03	0.02	0.02
8	0.02	0.05	0.69	0.62	0.09	2.83	12	0.14	0.03	0.03	0.02	0.03
9	0.02	0.05	0.60	0.66	0.25	2.76	11	0.15	0.03	0.02	0.02	0.03
10	0.02	0.04	1.01	0.62	0.37	3.10	9.84	0.13	0.03	0.02	0.02	0.02
11	0.02	0.04	1.06	0.64	0.36	3.06	9.07	0.11	0.03	0.02	0.02	0.02
12	0.05	0.03	0.90	0.62	0.35	3.10	8.74	0.10	0.03	0.02	0.02	0.02
13	0.05	0.03	0.82	0.57	0.30	3.10	7.40	0.10	0.03	0.02	0.02	0.02
14	0.05	0.02	0.77	0.59	0.48	3.42	6.03	0.09	0.03	0.03	0.02	0.02
15	0.04	0.02	0.67	0.64	0.86	3.70	4.89	0.09	0.03	0.03	0.02	0.02
16	0.03	0.02	0.48	0.80	1.15	4.36	3.75	0.08	0.03	0.03	0.02	0.02
17	0.03	0.04	0.36	0.90	1.47	4.68	2.56	0.08	0.03	0.03	0.02	0.02
18	0.03	0.05	0.33	0.84	2.59	4.73	1.53	0.09	0.03	0.03	0.02	0.02
19	0.02	0.05	0.31	0.78	4.05	4.57	1.08	0.08	0.03	0.03	0.02	0.02
20	0.02	0.05	0.31	0.71	6.43	4.52	0.77	0.07	0.03	0.03	0.02	0.02
21	0.02	0.04	0.30	0.71	7.67	4.52	0.55	0.06	0.03	0.02	0.02	0.02
22	0.03	0.04	0.51	0.69	8.30	4.57	0.44	0.06	0.03	0.03	0.02	0.02
23	0.03	0.03	0.59	0.60	7.76	4.78	0.40	0.06	0.03	0.03	0.02	0.02
24	0.03	0.03	0.67	0.45	5.10	5.62	0.42	0.05	0.03	0.02	0.02	0.02
25	0.02	0.12	1.27	0.36	4.05	6.16	0.39	0.05	0.03	0.02	0.02	0.02
26	0.02	0.12	1.35	0.31	3.57	8.41	0.38	0.04	0.03	0.02	0.02	0.02
27	0.02	0.12	1.10	0.26	3.28	8.96	0.35	0.04	0.03	0.02	0.02	0.02
28	0.02	0.10	0.82	0.18	3.19	9.18	0.33	0.03	0.03	0.02	0.02	0.02
29	0.02	0.08	0.55	0.15	3.01	10	0.31	0.03	0.03	0.02	0.02	0.02
30	0.04	0.08	0.47	0.09	3.10	13	0.31	0.03	0.03	0.02		0.02
31		0.07		0.08	3.19		0.30		0.03	0.02		0.02
Total	0.81	1.50	19.86	15.80	71.41	144.29	181.85	3.57	0.91	0.78	0.58	0.64
Mean	0.027	0.048	0.66	0.51	2.30	4.81	5.87	0.11	0.029	0.025	0.020	0.021
Max.	0.05	0.12	1.35	0.90	8.30	13	15	0.50	0.03	0.03	0.02	0.03
Min.	0.02	0.02	0.06	0.08	0.05	2.79	0.30	0.03	0.03	0.02	0.02	0.02
Runoff - mcm.	0.070	0.130	1.716	1.365	6.170	12.467	15.712	0.291	0.079	0.067	0.050	0.055

WATER YEAR 1955 : Max. 15 Min. 0.02 Mean 1.20 Annual Runoff 38.171 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 1	06.00	112.60	15				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MUN 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 bridge 200 meters north of city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +109.00 m. (M.S.L.)

Bench Mark: B.M. - No.0339

Location: At bridge on right bank.
Elevation: +123.054 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, 1954 - 59

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 year without actual ratings.

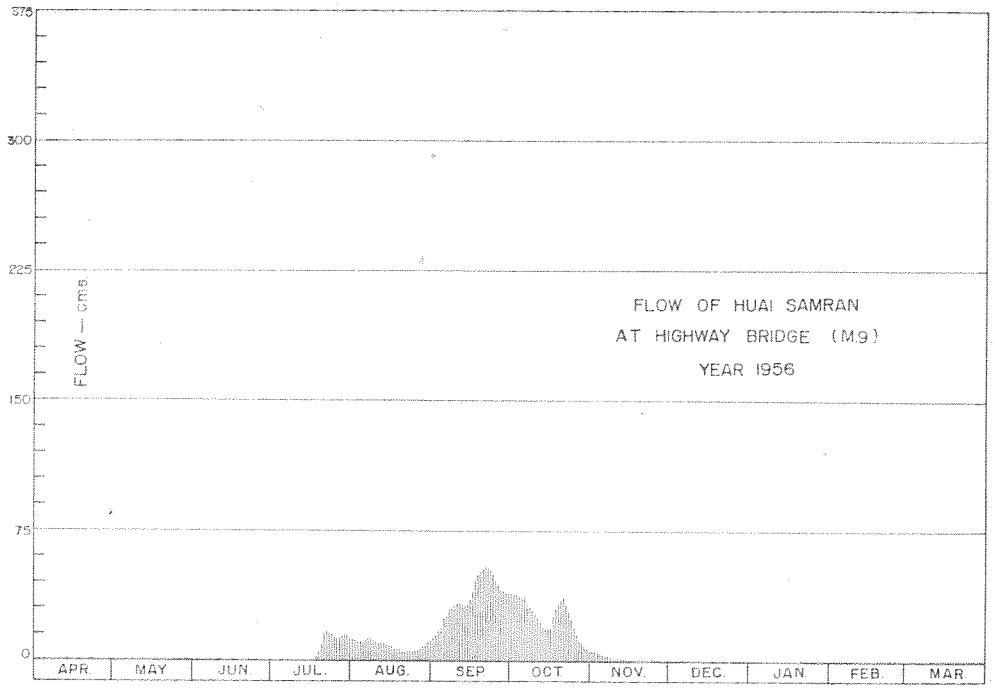
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1951. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.37	109.54	109.65	109.74	112.34	112.47	113.88	111.60	109.52	109.40	109.37	109.35
2	.36	.54	.67	.78	.32	.64	.85	.58	.51	.40	.37	.35
3	.38	.52	.67	.87	.28	.79	.86	.48	.51	.41	.37	.35
4	.38	.50	.68	.94	.25	.94	.84	.38	.51	.40	.36	.35
5	.38	.49	.69	.96	.23	113.16	.80	.24	.50	.40	.37	.34
6	109.38	109.49	109.69	109.95	112.38	113.35	113.82	111.04	109.50	109.41	109.37	109.34
7	.38	.48	.69	.95	.44	.42	.62	110.94	.50	.41	.36	.34
8	.37	.48	.69	.95	.39	.47	.53	.82	.49	.41	.35	.34
9	.37	.46	.68	.95	.30	.56	.42	.72	.48	.40	.40	.33
10	.37	.45	.69	.95	.21	.62	.31	.62	.48	.40	.38	.33
11	109.37	109.44	109.69	109.95	112.20	113.61	113.20	110.50	109.47	109.40	109.37	109.39
12	.41	.43	.69	.94	.18	.56	.01	.36	.47	.40	.37	.38
13	.45	.42	.72	.94	.14	.54	112.88	.29	.47	.40	.37	.37
14	.41	.41	.75	.93	.10	.64	.81	.26	.45	.39	.36	.37
15	.39	.41	.75	.93	.05	.79	.81	.23	.45	.39	.36	.37
16	109.39	109.41	109.75	109.94	111.98	113.96	112.88	110.19	109.45	109.38	109.36	109.36
17	.39	.43	.74	110.22	.81	114.19	113.23	.12	.44	.39	.36	.36
18	.38	.46	.73	.82	.86	.35	.44	.07	.44	.38	.36	.43
19	.38	.48	.73	111.68	.80	.42	.58	.05	.44	.37	.39	.40
20	.38	.49	.73	112.13	.72	.49	.72	109.97	.44	.37	.38	.38
21	109.37	109.49	109.73	112.56	111.67	114.51	113.80	109.93	109.44	109.38	109.37	109.38
22	.40	.54	.73	.74	.66	.50	.60	.90	.44	.39	.37	.37
23	.40	.56	.73	.63	.65	.45	.40	.88	.43	.40	.37	.37
24	.38	.56	.73	.51	.64	.34	.13	.84	.43	.39	.37	.36
25	.37	.54	.75	.45	.61	.20	112.86	.79	.42	.38	.36	.34
26	109.37	109.50	109.76	112.39	111.74	114.08	112.56	109.71	109.42	109.39	109.36	109.55
27	.36	.48	.75	.40	.90	113.96	.28	.66	.41	.39	.36	.53
28	.36	.59	.75	.47	.99	.95	.15	.64	.41	.39	.36	.50
29	.35	.62	.74	.59	112.05	.90	111.92	.58	.41	.38		.45
30	.35	.64	.74	.58	.21	.88	.77	.51	.40	.38		.41
31		.65		.40	.34		.62		.40	.37		.37
Mean	109.38	109.50	109.71	111.04	112.04	113.76	113.15	110.36	109.45	109.39	109.36	109.38
Max.	109.45	109.65	109.76	112.74	112.44	114.51	113.88	111.60	109.52	109.41	109.40	109.55
Min.	109.35	109.41	109.65	109.74	111.61	112.47	111.62	109.51	109.40	109.37	109.35	109.33

WATER YEAR 1956 : Max. 114.51 m. Min. 109.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.01	0.05	0.08	0.11	12	14	38	5.15	0.05	0.02	0.01	0.01
2	0.01	0.05	0.09	0.12	12	16	38	5.04	0.04	0.02	0.01	0.01
3	0.02	0.05	0.09	0.15	11	18	38	4.52	0.04	0.02	0.01	0.01
4	0.02	0.04	0.09	0.17	11	20	37	4.00	0.04	0.02	0.01	0.01
5	0.02	0.04	0.10	0.18	11	24	36	3.33	0.04	0.02	0.01	0.01
6	0.02	0.04	0.10	0.17	12	28	37	2.49	0.04	0.02	0.01	0.01
7	0.02	0.04	0.10	0.17	13	29	33	2.14	0.04	0.02	0.01	0.01
8	0.01	0.04	0.10	0.17	13	30	31	1.72	0.04	0.02	0.01	0.01
9	0.01	0.05	0.09	0.17	12	32	29	1.41	0.04	0.02	0.02	0.01
10	0.01	0.05	0.10	0.17	11	35	27	1.15	0.04	0.02	0.02	0.01
11	0.01	0.05	0.10	0.17	10	33	25	0.88	0.03	0.02	0.01	0.02
12	0.02	0.05	0.10	0.17	10	32	22	0.62	0.03	0.02	0.01	0.02
13	0.03	0.02	0.11	0.17	9.84	31	19	0.51	0.03	0.02	0.01	0.01
14	0.02	0.02	0.11	0.17	9.40	33	18	0.47	0.03	0.02	0.01	0.01
15	0.02	0.02	0.11	0.17	8.85	36	18	0.43	0.03	0.02	0.01	0.01
16	0.02	0.02	0.11	0.17	8.12	40	19	0.38	0.03	0.02	0.01	0.01
17	0.02	0.05	0.11	0.32	8.59	46	25	0.30	0.03	0.02	0.01	0.01
18	0.02	0.03	0.11	1.72	7.04	50	29	0.26	0.03	0.02	0.01	0.03
19	0.02	0.04	0.11	5.69	6.50	51	32	0.24	0.03	0.01	0.02	0.02
20	0.02	0.04	0.11	9.73	5.96	53	35	0.18	0.03	0.01	0.02	0.02
21	0.01	0.04	0.11	15	5.62	54	36	0.17	0.03	0.02	0.01	0.02
22	0.02	0.05	0.11	17	5.55	53	32	0.16	0.03	0.02	0.01	0.01
23	0.02	0.06	0.11	16	5.49	52	28	0.15	0.03	0.02	0.01	0.01
24	0.02	0.06	0.11	14	5.42	49	24	0.14	0.03	0.02	0.01	0.01
25	0.01	0.05	0.11	13	5.22	46	19	0.13	0.02	0.02	0.01	0.01
26	0.01	0.04	0.12	13	6.09	43	15	0.10	0.02	0.02	0.01	0.05
27	0.01	0.04	0.11	13	7.40	40	11	0.09	0.02	0.02	0.01	0.05
28	0.01	0.07	0.11	14	8.21	40	10	0.08	0.02	0.02	0.01	0.04
29	0.01	0.08	0.11	15	8.85	39	7.58	0.06	0.02	0.02		0.03
30	0.01	0.08	0.11	15	11	38	6.30	0.04	0.02	0.02		0.02
31		0.08		13	12		5.28		0.02	0.01		0.01
Total	0.48	1.34	3.03	178.16	281.15	1,103	780.16	36.34	0.97	0.59	0.32	0.52
Mean	0.016	0.043	0.10	5.75	9.07	36.8	25.2	1.21	0.031	0.019	0.011	0.017
Max.	0.03	0.08	0.12	17	12	54	38	5.15	0.05	0.02	0.02	0.05
Min.	0.01	0.02	0.08	0.11	5.22	14	5.28	0.04	0.02	0.01	0.01	0.01
Runoff - mcm.	0.041	0.116	0.261	15.393	24.291	95.299	67.406	3.140	0.084	0.051	0.028	0.045

WATER YEAR 1956 : Max. 54 Min. 0.01 Mean 65.4 Annual Runoff 206.155 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 20	12.00	114.51	54				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MUN RIVER BASIN

Lam Phra Phloeng at Ban Bu Hua Chang, Nakhon Ratchasima (M.35)

Location: Lat 14° – 35' – 20" N, Long 101° – 50' – 30" E, on right bank about 50 meters upstream from Lam Phra Phloeng Damsite, Ban Bu Hua Chang, Amphoe Pak Thong Chai, Nakhon Ratchasima.

Drainage Area: 822 sq.km.

Type of Gage: Water – stage recorder.

Zero Gage at Bottom at: +226.800 m. (M.S.L.)

Bench Mark: B.M. of Survey Division No.3

Location: Near gage site.
Elevation: +264.886 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 – 64

Rating Operation:

Period of Rating: 1955 – 64
Rated by Float: –
Rated by Current Meter: 1955 – 64

Stability of Channel Regimes: Rather unstable, mean hourly discharge is used for flow computation.

Overbank Flow Conditions: No overbank flow.

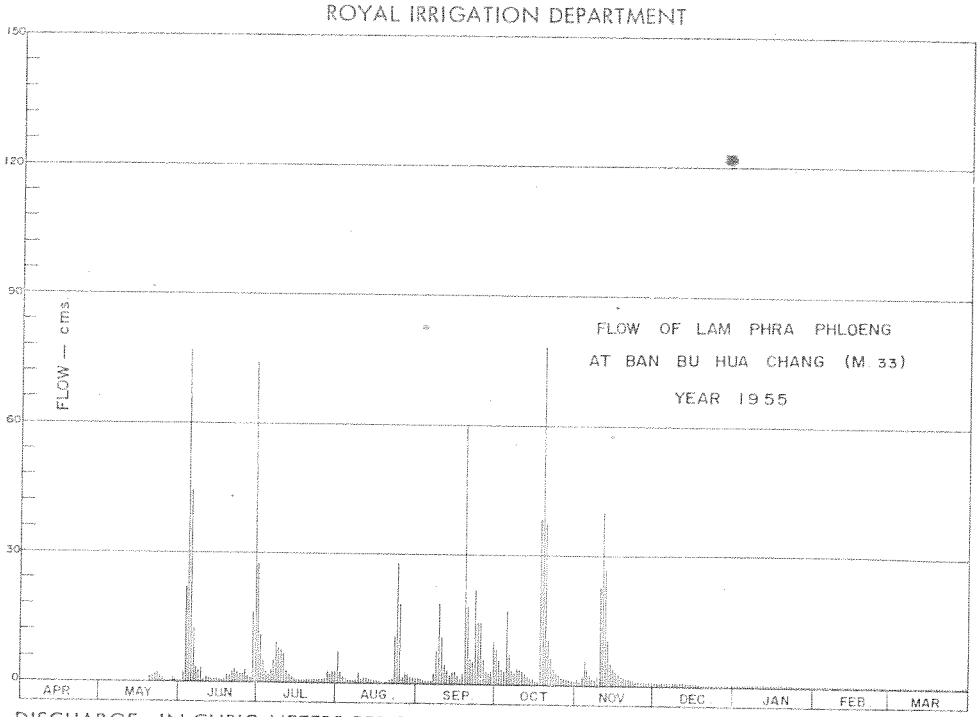
General Description: Records fair. Stage – discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: Stream gaging began on May 20, 1955.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			227.01	231.39	228.97	227.54	229.03	227.36	227.25	227.06	226.99	226.95
2			226.97	229.56	227.76	.42	228.53	.32	.23	.06	.99	.95
3			228.71	228.53	.43	.35	.17	.67	.22	.06	.98	.95
4			233.17	229.98	.34	.29	.08	228.63	.21	.06	.98	.95
5			232.62	.70	.29	.25	230.36	.20	.20	.06	.98	.94
6			229.27	228.01	227.25	227.25	228.83	227.76	227.19	227.05	226.98	226.94
7	Stream gaging		228.14	.61	.21	.78	.04	.58	.20	.04	.98	.95
8	began on	May.20,55	227.97	229.25	.26	228.96	227.80	.50	.19	.04	.98	.95
9			228.15	.00	.85	230.61	228.17	.80	.19	.04	.98	.94
10			227.76	228.91	.38	229.36	.09	231.01	.18	.04	.98	.94
11			227.53	228.76	227.55	228.37	228.04	232.72	227.18	227.04	226.98	226.94
12			.39	227.98	.50	.15	227.87	231.43	.16	.03	.98	.95
13			.31	.70	.35	227.76	.67	229.38	.16	.03	.97	.95
14			.25	.50	.35	.89	.55	226.63	.15	.03	.97	.94
15			.21	.36	.24	.97	.47	.25	.15	.03	.97	.94
16			227.23	227.32	227.19	227.68	227.40	228.03	227.14	227.03	226.97	226.94
17			.20	.27	.15	.51	.35	227.89	.13	.03	.97	.94
18			.22	.23	.13	.68	231.71	.81	.13	.03	.96	.94
19			.65	.21	.13	233.05	233.91	.72	.12	.02	.96	.94
20		227.42	.50	.20	.13	230.60	231.20	.63	.12	.02	.96	.94
21		227.45	227.99	227.22	227.35	228.56	229.35	227.56	227.11	227.02	226.96	226.94
22		.60	228.08	.27	.21	.54	228.55	.50	.10	.02	.96	.94
23		.72	227.86	.39	229.47	230.85	.17	.44	.10	.01	.97	.94
24		.42	.65	.36	231.57	229.97	227.95	.40	.11	.01	.97	.94
25		.22	.74	.30	230.40	.91	.79	.36	.10	.01	.96	.94
26		227.12	228.05	227.27	228.36	228.68	227.68	227.33	227.09	227.01	226.96	226.94
27		.08	227.58	.37	227.91	.16	.59	.31	.10	.00	.96	.94
28		.10	.42	.86	.68	227.92	.52	.30	.08	.00	.96	.94
29		.31	229.45	.74	.54	.95	.47	.28	.08	.00	.95	.95
30		.19	225.61	.87	.47	229.35	.42	.26	.07	226.99		227.04
31		.07		.89	.50		.39		.07	.99		.04
Mean			228.29	227.97	227.77	228.58	228.46	228.13	227.14	227.03	226.97	226.95
Max.			233.17	231.39	231.57	233.05	233.91	232.72	227.25	227.06	226.99	227.04
Min.			226.97	227.20	227.13	227.25	227.35	227.26	227.07	226.99	226.95	226.94

WATER YEAR 1955 : Max. 233.91 m. Min. 226.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.37	26	7.18	1.91	7.98	1.06	0.82	0.46	0.34	0.28
2			0.31	11	2.14	1.20	5.28	0.97	0.78	0.46	0.34	0.28
3			13	5.33	1.22	1.04	3.65	1.88	0.75	0.46	0.32	0.28
4			77	2.84	1.05	0.91	3.25	5.95	0.73	0.46	0.32	0.28
5			47	1.96	0.91	0.82	17	3.78	0.71	0.45	0.32	0.27
6			9.65	2.94	0.82	0.82	6.97	2.14	0.69	0.43	0.32	0.27
7			5.52	5.65	0.75	2.80	3.08	1.62	0.71	0.42	0.32	0.28
8			2.80	9.43	0.84	2.69	2.26	1.40	0.69	0.42	0.32	0.28
9			3.56	7.83	2.42	19	5.65	2.26	0.69	0.42	0.32	0.27
10			2.14	7.38	1.11	10	3.30	22	0.67	0.42	0.32	0.27
11			1.48	6.10	1.54	4.54	3.08	49	0.67	0.42	0.32	0.27
12			1.13	2.84	1.40	3.56	2.48	27	0.65	0.40	0.32	0.28
13			0.95	1.96	1.04	2.14	1.86	10	0.63	0.40	0.31	0.28
14			0.82	1.40	1.04	2.55	1.54	5.75	0.61	0.40	0.31	0.27
15			0.73	1.08	0.80	2.80	1.32	4.00	0.61	0.40	0.31	0.27
16			0.78	0.97	0.69	1.90	1.15	3.03	0.60	0.40	0.31	0.27
17			0.71	0.86	0.61	1.43	1.04	2.55	0.58	0.40	0.31	0.27
18			0.75	0.78	0.58	1.90	56	2.22	0.58	0.40	0.29	0.27
19			1.62	0.73	0.58	60	78	2.02	0.56	0.38	0.29	0.27
20		1.20	1.68	0.71	0.58	19	30	1.76	0.66	0.38	0.29	0.27
21		1.27	2.87	0.75	1.04	5.50	10	1.57	0.54	0.38	0.29	0.27
22		1.68	5.25	0.86	0.73	5.21	5.57	1.40	0.52	0.38	0.29	0.27
23		2.02	2.45	1.13	7.00	22	3.65	1.25	0.52	0.37	0.31	0.27
24		1.20	1.82	1.06	28	14	2.74	1.15	0.54	0.37	0.31	0.27
25		0.75	2.08	0.93	18	14	2.23	1.06	0.52	0.37	0.29	0.27
26		0.56	5.12	0.86	4.49	6.00	1.90	0.99	0.50	0.37	0.29	0.27
27		0.49	4.62	1.08	2.61	5.60	1.65	0.95	0.52	0.55	0.29	0.27
28		0.52	1.20	2.45	1.90	2.64	1.46	0.93	0.49	0.35	0.29	0.27
29		0.95	15	2.08	1.51	2.24	1.32	0.89	0.49	0.55	0.28	0.28
30		0.69	74	2.45	1.32	10	1.20	0.84	0.47	0.54		0.42
31		0.47		2.55	1.40		1.13		0.47	0.54		0.42
Total			277.61	113.97	95.89	231.30	245.56	161.42	18.85	12.31	8.94	8.76
Mean			9.25	3.68	3.09	7.71	7.92	5.38	0.61	0.40	0.31	0.28
Max.			77	26	28	60	78	49	0.82	0.45	0.34	0.42
Min.			0.31	0.71	0.58	0.82	1.04	0.84	0.47	0.54	0.28	0.27
Runoff - mcm.			23.985	9.847	8.285	19.984	21.216	13.947	1.629	1.063	0.772	0.757

WATER YEAR 1955 : Max. 78 Min. 0.27 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 4	15.00	235.56	185				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MUN 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.

Type of Gage: Water stage recorder.

Zero Gage at Bottom at: +226.800 m. (M.S.L.)

Bench Mark: B.M. of survey division No.3
Location: Near 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 - 64

Rating Operation:
Period of Rating: 1955 - 64
Rated by Float: -
Rated by Current Meter: 1955 - 64

Stability of Channel Regimes: Rather unstable, mean hourly discharge is used for flow computation.

Overbank Flow Conditions: No overbank flow.

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

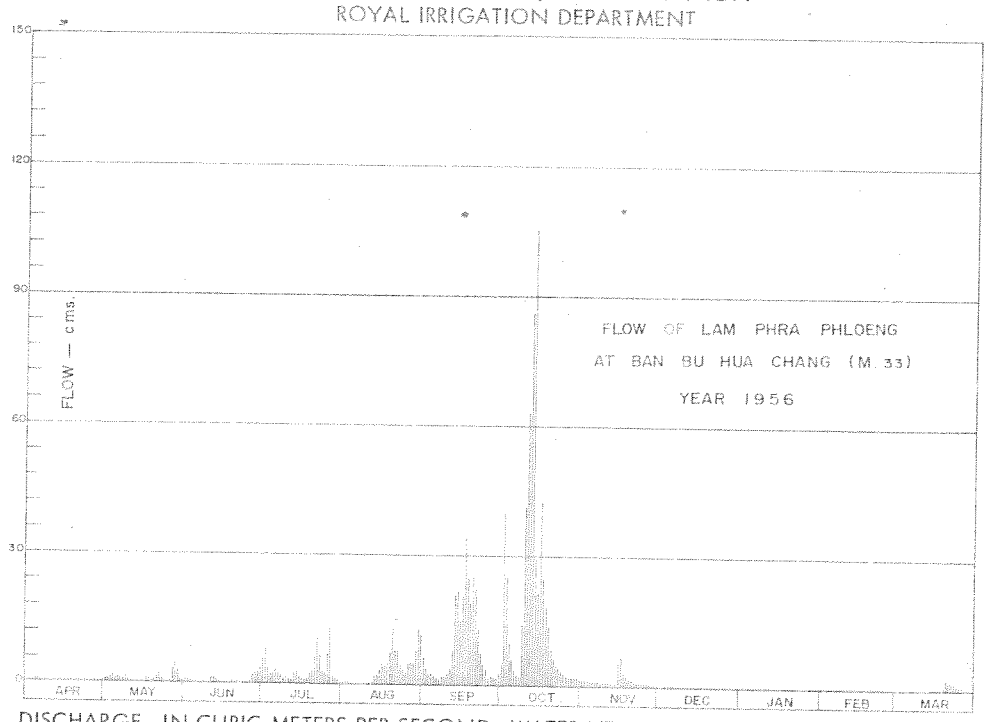
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.00	227.02	227.23	228.80	227.21	228.63	228.32	227.58	227.24	227.06	227.00	226.94
2	.00	.23	.21	229.11	.16	.04	232.14	.53	.23	.06	.13	.94
3	226.99	.74	.18	228.17	.13	227.90	231.72	.51	.21	.06	.09	.94
4	.99	.63	.08	227.86	.10	.98	229.32	.48	.20	.06	.04	.94
5	227.21	.45	.04	.90	.09	.74	228.49	.45	.20	.06	.02	.94
6	227.16	227.60	227.03	228.18	227.10	227.57	228.16	227.46	227.19	117.05	227.00	226.94
7	.04	.30	.01	227.88	.10	.55	227.90	.48	.18	.04	226.99	.94
8	.01	.22	226.99	.68	.08	.81	.76	.45	.17	.04	.99	.94
9	226.99	.63	.99	.48	.12	.81	230.38	.40	.16	.04	.99	.95
10	.98	.18	.98	.63	.10	.94	232.74	.38	.15	.03	.98	.95
11	226.98	227.15	227.55	227.41	227.12	228.27	230.49	227.35	227.15	227.03	226.98	226.95
12	.97	.07	.52	.44	.15	229.15	234.00	.33	.15	.03	.98	.95
13	.96	.04	.23	.92	.77	230.85	234.34	.31	.14	.03	.98	.95
14	.95	.02	.11	.99	.80	.88	231.44	.37	.13	.03	.98	227.02
15	.95	.01	.06	.61	228.17	.03	230.78	228.56	.13	.02	.97	.30
16	226.95	227.07	227.02	227.55	228.48	230.57	232.76	228.81	227.12	227.02	226.99	227.16
17	.94	.49	.00	.33	.33	232.16	231.13	.04	.12	.02	.97	.08
18	.94	.35	.03	.66	227.79	231.30	230.62	227.77	.11	.01	.97	.29
19	.93	.21	.20	228.02	228.90	230.49	229.98	.63	.10	.01	.96	228.50
20	.94	.27	.12	227.96	229.87	231.34	.15	.54	.09	.01	.96	227.94
21	226.98	227.61	227.09	228.61	229.01	230.89	228.70	227.48	227.09	227.01	226.96	227.64
22	227.03	.91	.19	229.63	.03	229.94	228.44	.43	.09	.01	.95	.32
23	.10	.25	.08	228.69	228.42	228.96	.25	.39	.09	.00	.95	.18
24	.09	.11	.03	.01	.22	.34	.07	.35	.08	.00	.95	.12
25	.04	.06	.02	227.85	.07	.20	227.94	.33	.08	226.99	.95	.07
26	226.02	227.03	227.18	228.81	228.55	227.99	227.85	227.32	227.08	226.99	226.95	227.05
27	.02	.89	.87	229.71	.51	.81	.76	.30	.08	.99	.95	.02
28	.02	228.36	.90	227.76	.47	.70	.71	.29	.07	.99	.94	.02
29	.07	227.33	.90	.49	.94	.63	.69	.26	.07	.98		.01
30	.06	.17	228.25	.33	229.82	228.07	.73	.25	.07	.98		.00
31		.18		.23	.57		.64		.06	.98		226.99
Mean	227.01	227.34	227.24	228.02	228.04	228.98	229.62	227.53	227.13	227.02	226.98	227.13
Max.	227.21	228.36	228.25	229.71	229.87	232.16	234.34	228.81	227.24	227.06	227.13	228.50
Min.	226.93	227.01	226.98	227.23	227.08	227.55	227.64	227.25	227.06	226.98	226.94	226.94

WATER YEAR 1956 : Max. 234.34 m. Min. 226.93 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	0.34	0.76	6.50	0.72	5.80	* 4.38	1.54	0.55	0.16	0.07	
2	0.30	0.76	0.72	8.17	0.62	3.06	* 40	1.39	0.55	0.16	0.29	
3	0.29	2.02	0.66	3.58	0.56	2.50	* 30	1.35	0.48	0.16	0.21	
4	0.29	1.69	0.46	2.38	0.50	2.82	* 0.58	1.26	0.45	0.16	0.12	
5	0.72	1.20	0.38	2.50	0.48	2.02	4.95	1.20	0.45	0.16	0.09	
6	0.62	1.60	0.36	3.62	0.50	1.51	3.54	1.22	0.43	0.14	0.07	
7	0.38	0.90	0.32	2.44	0.50	1.45	2.50	1.26	0.40	0.13	0.05	
8	0.32	0.74	0.29	1.84	0.46	2.23	2.08	1.16	0.38	0.13	0.05	
9	0.29	1.69	0.29	1.24	0.54	2.23	* 15	1.10	0.36	0.13	0.05	
10	0.28	0.66	0.28	1.69	0.50	2.66	* 44	1.06	0.34	0.11	0.04	
11	0.28	0.60	1.45	1.12	0.54	3.98	* 18	1.00	0.34	0.11	0.04	
12	0.27	0.44	1.36	1.18	0.60	* 8.69	* 82	0.96	0.34	0.11	0.04	
13	0.26	0.38	0.76	2.58	2.11	*21	*105	0.92	0.31	0.11	0.04	
14	0.25	0.34	0.52	2.86	2.20	*22	* 29	1.04	0.29	0.11	0.04	0.09
15	0.25	0.32	0.42	1.63	3.58	*14	* 21	* 5.64	0.29	0.09	0.02	0.71
16	0.25	0.44	0.34	1.45	4.90	*19	* 42	* 6.89	0.27	0.00	0.02	0.36
17	0.24	1.28	0.30	0.96	4.22	*34	* 24	3.06	0.27	0.09	0.02	0.19
18	0.24	1.00	0.36	1.78	2.17	*25	* 19	2.11	0.25	0.08	0.02	0.62
19	0.25	0.72	0.70	2.98	8.67	*18	* 14	1.69	0.23	0.08	0.01	4.40
20	0.24	0.84	0.54	2.74	* 13	*25	* 8.45	1.42	0.21	0.08	0.01	2.50
21	0.28	1.63	0.48	* 5.75	* 7.77	*22	6.00	1.18	0.21	0.08	0.01	1.62
22	0.36	2.54	0.68	*12	* 8.28	*14	4.70	1.04	0.21	0.08		0.86
23	0.50	0.80	0.46	* 6.00	4.60	* 7.43	3.90	0.94	0.21	0.07		0.53
24	0.48	0.52	0.36	3.94	3.78	4.26	3.18	0.83	0.19	0.07		0.27
25	0.38	0.42	0.34	2.35	2.98	3.70	2.66	0.78	0.19	0.05		0.17
26	0.34	* 0.36	0.66	6.55	5.25	2.86	2.35	0.76	0.19	0.05		0.14
27	0.34	* 5.40	2.41	13	5.05	2.23	2.08	0.71	0.19	0.05		0.09
28	0.34	5.04	2.50	2.08	4.85	1.93	1.93	0.68	0.17	0.05		0.09
29	0.44	0.96	2.50	1.28	* 7.39	1.63	1.87	0.60	0.17	0.04		0.08
30	0.42	0.64	3.90	0.96	* 13	3.18	1.99	0.58	0.17	0.04		0.07
31		0.66		0.76	* 11		1.72		0.16	0.04		0.05
Total	10.18	34.93	25.56	106.93	121.32	280.17	548.78	45.35	9.23	3.01	1.31	12.84
Mean	0.34	1.13	0.85	3.45	3.91	9.34	17.7	1.31	0.30	0.10	0.05	0.04
Max.	0.72	5.04	3.90	13	13	* 34	105	6.89	0.55	0.16	0.29	4.40
Min.	0.23	0.32	0.28	0.76	0.46	1.45	1.72	0.58	0.16	0.04	0.00	0.00
Runoff - mcm.	0.879	3.018	2.208	9.239	10.481	24.207	47.414	3.918	0.797	0.260	0.113	1.109

WATER YEAR 1956 : Max. 105 Min. 0.00 Mean 3.29 Annual Runoff 103.646 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 from country road, left of Suwanson road, Amphoe Muang, Nakhon Nayok.

Drainage Area: 520 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.974 m. (M.S.L.)

Bench Mark: B.M. – R.I.D.

Location: On left bank near gage line.
Elevation: +9.791 m. (M.S.L.)

Gage Reading Frequency: 12 – time daily readings at 06.00, 09.00, 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: 1953, 1955 – 58, 1967 – 69
Rated by Float: –
Rated by Current Meter: 1953, 1955 – 58, 1967 – 69

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

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1955. For drought periods stage – discharge relation affected by back water from Nakhon Nayok Barrage. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

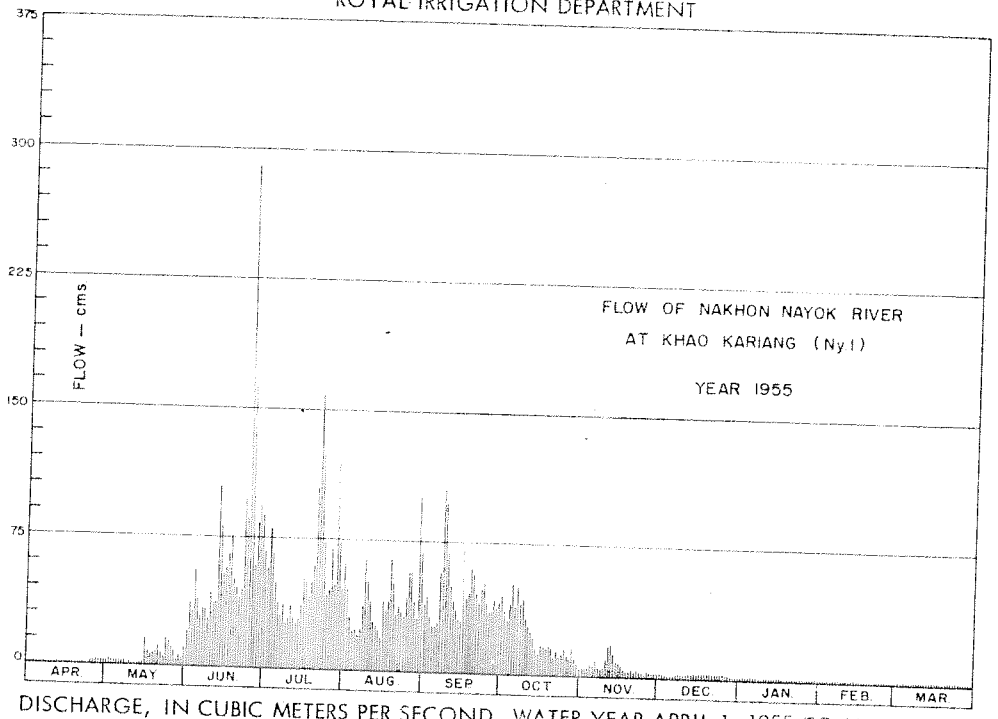
Remarks: Prior to Apr.15 stage record poor, Apr.1 – 15 discharge estimated.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		3.69	4.60	5.81	5.69	5.23	5.28	4.48	4.56	4.29	4.56	3.42
2		.79	5.29	.53	.10	.27	.05	.49	.46	.25	.49	.41
3		.71	4.68	6.38	4.89	4.95	4.89	.56	.46	.22	.48	.41
4		.64	5.56	5.62	.75	.78	5.27	.48	.47	.17	.49	.42
5		.65	4.84	.34	.69	.78	.46	.59	.38	.09	.47	.41
6		3.67	4.74	4.98	4.59	4.80	5.17	4.51	4.46	4.02	3.48	3.40
7		.64	5.06	.81	.71	5.31	.46	.42	.45	.00	.47	.40
8		.58	.05	5.38	.95	6.43	.29	.48	.46	.00	.47	.41
9		.53	4.71	.09	5.57	.56	.25	.54	.44	3.99	.47	.41
10		.54	5.04	.02	.33	5.59	.05	.70	.42	.95	.47	.42
11		3.51	4.93	5.08	5.09	5.25	5.93	4.75	4.45	3.89	3.46	3.42
12		.48	.93	4.90	4.85	.12	4.78	.75	.46	.89	.46	.44
13		.53	5.66	.78	.75	.08	.71	.61	.48	.80	.45	.45
14		.54	5.42	.88	.60	4.99	.64	.46	.49	.76	.45	.45
15		.65	.40	5.10	.70	.98	.59	.59	.49	.71	.45	.44
16	3.40	4.32	5.42	5.52	5.04	5.77	4.58	4.50	4.56	3.70	3.44	3.43
17	.32	3.96	.73	.41	.05	.26	.64	.41	.53	.68	.43	.40
18	.35	.79	.80	.12	.12	.35	.73	.52	.47	.67	.43	.40
19	.35	.85	.22	.31	.82	.96	.61	.52	.47	.66	.43	.39
20	.36	.95	.27	.35	.33	.91	.58	.41	.53	.64	.42	.39
21	3.33	4.13	5.06	6.74	5.11	5.21	4.62	4.47	4.52	3.62	3.43	3.40
22	.36	3.88	.25	7.67	.05	.19	.58	.43	.52	.60	.42	.41
23	.39	.86	6.45	6.21	4.94	.40	.48	.52	.52	.56	.42	.39
24	.45	4.15	.10	5.58	.83	.49	.55	.50	.52	.58	.44	.39
25	.52	.42	8.48	5.11	.93	.41	.56	.37	.51	.57	.43	.38
26	3.67	4.00	6.12	5.25	5.84	5.85	4.57	4.52	4.50	3.56	3.44	3.37
27	.73	3.91	5.44	.86	.54	4.97	.58	.50	.47	.54	.42	.37
28	.72	.84	6.10	.35	.19	5.29	.43	.50	.42	.53	.42	.37
29	.70	4.07	.61	6.59	4.98	.07	.37	.50	.39	.50	.41	.37
30	.77	.02	.52	5.76	6.56	.28	.41	.50	.36	.49		.37
31		.00		.37	5.54		.52		.34			.37
Mean		3.80	5.56	5.52	5.12	5.30	4.82	4.52	4.46	3.80	3.45	3.40
Max.		4.32	8.48	7.67	6.56	6.43	5.93	4.75	4.53	4.29	3.50	3.45
Min.		3.48	4.60	4.78	4.59	4.78	4.37	4.37	4.34	3.49	3.41	3.37

WATER YEAR 1955 : Max. 8.48 m. Min. 3.37 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	* 0.50	2.10	37	63	61	59	46	4.60	2.50	1.35	0.95	0.33
2	* 0.50	3.40	44	55	56	64	36	4.50	2.50	1.45	0.85	0.28
3	* 0.50	2.10	52	81	50	51	29	4.30	1.70	1.25	0.51	0.27
4	* 0.50	1.90	56	62	22	26	45	6.50	1.00	1.16	0.51	0.32
5	* 0.50	1.90	52	46	24	26	52	5.00	1.10	1.46	0.52	0.32
6	* 0.50	2.30	29	36	20	29	37	9.00	1.40	1.46	0.93	0.27
7	* 0.50	2.30	41	30	22	45	58	4.00	1.70	1.42	0.85	0.29
8	* 0.50	1.80	41	37	31	105	40	3.70	2.20	1.46	0.85	0.25
9	* 0.50	1.20	26	26	64	95	43	5.00	1.70	1.35	0.85	0.25
10	* 0.50	1.51	45	29	47	58	32	6.50	1.50	1.21	0.51	0.54
11	* 0.50	1.30	37	36	38	45	27	16	1.80	1.20	0.46	0.42
12	* 0.50	0.90	38	29	28	41	23	16	1.80	1.13	0.46	0.62
13	* 0.50	1.20	104	26	26	34	20	8.00	2.20	1.10	0.46	0.60
14	* 0.50	1.10	75	28	25	30	17	6.40	2.20	0.94	0.46	0.49
15	* 0.50	2.30	54	37	18	30	14	7.40	2.50	1.03	0.51	0.44
16	0.60	16	57	53	40	71	17	5.20	2.46	1.00	0.32	0.34
17	0.41	8.00	66	51	35	45	15	4.40	2.50	0.96	0.32	0.36
18	0.53	6.00	76	40	58	46	15	2.70	2.20	1.15	0.29	0.26
19	0.53	7.00	46	49	64	75	17	3.00	2.40	0.98	0.29	0.27
20	0.53	8.00	46	60	50	56	15	4.66	2.70	0.84	0.29	0.21
21	0.30	11	40	113	35	42	9.50	2.70	2.50	0.82	0.46	0.34
22	0.39	6.40	44	168	27	40	14	4.00	2.40	0.87	0.29	0.29
23	0.50	4.07	92	91	34	40	16	2.40	2.70	0.85	0.29	0.24
24	0.65	16	81	57	31	32	12	2.00	2.50	0.85	0.51	0.23
25	1.51	14	289	42	41	27	15	1.20	2.50	0.81	0.51	0.19
26	2.20	10	77	46	57	35	10	5.20	2.00	0.79	0.46	0.18
27	2.68	7.92	52	69	56	28	8.50	3.00	2.40	0.73	0.32	0.17
28	2.84	4.40	84	45	50	42	15	2.20	1.30	0.75	0.29	0.19
29	2.82	6.00	96	119	30	37	8.00	2.30	1.20	0.78	0.23	0.20
30	2.88	5.90	86	65	100	69	7.00	2.60	0.80	0.67		0.17
31		11		47	57		5.50		0.90	0.62		0.18
Total	26.95	167.95	1,911	1,926	1,257	1,380	486.50	158.40	60.20	32.23	14.33	9.41
Mean	0.90	5.42	63.7	55.7	59.9	46.0	22.1	5.28	1.94	1.04	0.49	0.30
Max.	2.88	16	289	158	100	105	52	16	2.70	1.46	0.93	0.62
Min.	0.30	0.90	22	26	18	26	5.50	1.20	0.80	0.62	0.23	0.17
Runoff — mcm.	2.328	14.511	165.110	149.126	108.877	119.232	59.314	13.686	5.201	2.785	1.238	0.813

WATER YEAR 1955 : Max. 289 Min. 0.17 Mean 20.2 Annual Runoff 640.221 mcm.

• Momentary Peck Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 22	12.00	8.48	289				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
NAKHON NAYOK RIVER BASIN

Nakhon Nayok River at Khao Kariang (Ny.1)

Location: Lat 14°- 14' - 22" N, Long 101°- 16' - 49" E, on left bank 12 kilometers upstream from Muang Nakhon Nayok and 10 kilometers from country road, left of Suwanson road, Amphoe Muang, Nakhon Nayok.

Drainage Area: 520 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +2.974 m. (M.S.L.)

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

Location: On left bank near gage line.

Elevation: +9.791 m. (M.S.L.)

Gage Reading Frequency: 12 - 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: 1952 to date.

Rating Operation:

Period of Rating: 1953, 1955 - 58, 1967 - 69

Rated by Float: -

Rated by Current Meter: 1953, 1955 - 58, 1967 - 69

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

Overbank Flow Conditions: No overbank flow.

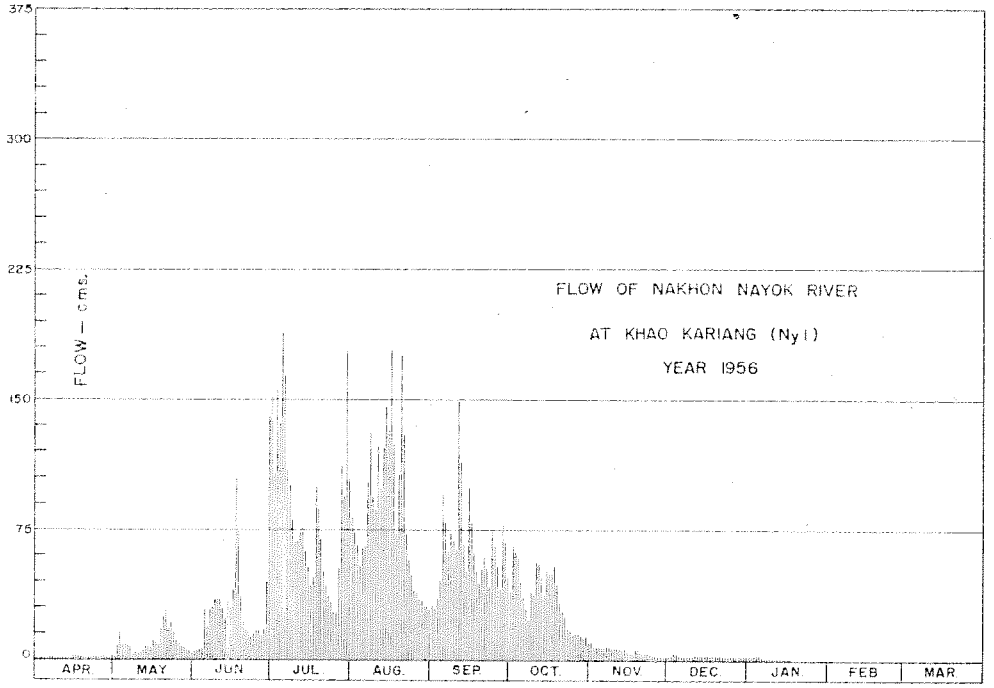
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. For drought periods stage - discharge relation affected by back water from Nakhon Nayok Barrage. No upstream state diversion for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.37	3.55	3.72	7.05	6.23	4.60	5.09	4.54	4.29	4.36	3.66	3.37
2	.37	.94	.71	6.15	5.83	.80	.59	.46	.35	.36	.64	.37
3	.40	4.19	.79	7.21	.80	.95	.55	.57	.43	.35	.63	.37
4	.43	3.89	.76	6.59	.58	.86	.53	.40	.40	.30	.62	.37
5	.41	.95	4.62	7.86	.52	6.31	4.99	.31	.28	.24	.58	.37
6	3.42	3.88	4.23	7.77	5.65	5.72	4.88	4.30	4.31	4.22	3.44	3.37
7	.49	.79	.65	6.12	.46	.50	.74	.32	.34	.21	.41	.37
8	.45	.73	.67	.52	6.38	.96	.73	.42	.38	.22	.41	.39
9	.46	.65	5.31	5.89	5.92	.80	5.12	.50	.39	.20	.40	.39
10	.48	.62	4.77	.86	6.09	.43	.09	.39	.44	.17	.40	.40
11	3.48	3.67	4.78	5.85	6.88	7.62	5.51	4.29	4.46	4.14	3.39	3.40
12	.50	.73	.67	6.03	.24	6.22	.49	.49	.46	.14	.38	.40
13	.52	.90	.61	.01	.85	5.58	.23	.59	.47	.12	.38	.41
14	.55	.86	.90	5.54	7.51	.20	4.97	.42	.46	.11	.37	.40
15	.61	.84	.75	.32	7.01	6.52	5.45	.32	.36	.08	.37	.41
16	3.58	4.02	4.95	5.80	8.09	5.85	5.36	4.44	4.33	4.07	3.36	3.38
17	.53	3.98	6.56	.03	6.26	.62	.32	.40	.33	.06	.36	.37
18	.50	.88	5.13	6.41	5.59	.32	.38	.34	.33	.03	.37	.38
19	.47	4.16	4.75	5.89	6.72	.08	.01	.43	.34	.01	.38	.41
20	.44	.42	.51	.51	7.60	.39	4.81	.45	.34	.00	.38	.41
21	3.43	4.51	4.36	5.09	6.37	5.60	4.65	4.47	4.34	3.97	3.36	3.41
22	.50	.16	.29	4.95	5.80	.46	.62	.28	.35	.95	.37	.40
23	.55	.26	.22	.96	.41	4.99	.55	.40	.33	.91	.36	.39
24	.53	.13	.21	.81	.16	6.05	.68	.45	.32	.90	.36	.38
25	.49	3.97	.29	.67	4.90	5.67	.54	.36	.32	.88	.37	.37
26	3.48	3.88	4.23	4.71	4.84	5.22	4.58	4.31	4.32	3.86	3.38	3.36
27	.52	.82	.10	.57	.78	.16	.58	.34	.33	.82	.37	.35
28	.49	.81	.11	6.99	.92	6.05	.55	.37	.33	.80	.36	.35
29	.48	.78	.39	.23	.64	5.52	.49	.31	.34	.78		.35
30	.56	.73	7.13	7.91	.71	.26	.55	.37	.37	.73		.39
31		.70		6.12	.78		.40		.36	.68		.42
Mean	3.48	3.92	4.62	5.95	5.93	5.58	4.96	4.40	4.36	4.05	3.42	3.38
Max.	3.61	4.51	7.13	7.86	8.09	7.62	5.59	4.59	4.47	4.36	3.66	3.42
Min.	3.37	3.62	3.71	4.37	4.64	4.60	4.40	4.31	4.28	3.73	3.36	3.35

WATER YEAR 1956 : Max. 8.09 m. Min. 3.35 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	1.70	5.00	151	82	31	38	11	2.30	1.90		
2	0.20	7.30	4.80	90	72	29	66	7.35	2.60	1.90		
3	0.40	15	6.10	156	71	36	62	8.00	3.40	2.10		
4	0.40	3.70	5.00	126	52	38	59	6.90	3.10	2.20		
5	0.50	9.00	29	186	64	95	41	7.35	1.90	1.60		
6	0.60	7.70	17	162	65	69	35	7.20	2.20	1.40		
7	1.00	5.40	29	88	100	59	29	7.50	2.50	1.30		
8	0.60	4.40	31	100	130	73	21	7.35	2.90	1.40		
9	0.60	3.80	35	73	77	68	39	7.05	2.20	1.20		
10	0.70	3.30	35	67	82	54	38	6.90	2.70	0.90		
11	0.70	3.70	35	71	123	149	56	3.60	2.90	0.60		
12	1.10	4.80	28	75	91	84	55	3.90	2.90	0.60		
13	1.20	8.00	22	76	121	58	45	5.08	3.00	0.60		
14	1.60	7.30	34	57	145	43	35	6.75	2.90	0.50		
15	2.60	7.00	30	54	123	99	51	5.00	2.40	0.20		
16	2.40	11	35	42	178	69	40	4.20	2.10	0.10		
17	1.50	10	104	45	93	60	50	4.40	1.90	0.00		
18	1.20	8.50	49	101	62	48	54	5.00	1.90			
19	0.90	18	32	81	110	44	36	6.60	2.00			
20	0.70	24	22	63	175	55	32	3.00	2.00			
21	0.70	29	18	47	94	60	28	3.20	2.00			
22	1.30	17	16	42	68	52	25	3.30	2.10			
23	1.60	21	13	36	54	36	17	3.20	1.90			
24	1.20	16	15	32	46	76	17	2.70	1.80			
25	1.30	10	17	26	38	66	14	1.80	1.80			
26	1.00	9.00	16	26	39	47	15	1.30	1.80			
27	1.50	7.30	14	54	35	39	15	1.60	1.90			
28	1.20	7.00	15	112	34	78	14	1.90	1.60			
29	0.80	5.60	35	85	30	59	12	1.30	1.70			
30	1.70	5.20	138	177	31	47	14	1.90	2.00			
31		4.40		81	29		10		1.90			
Total	31.00	299.10	904.90	2,582	2,514	1,821	1,072	146.33	70.00	18.50	0.00	0.00
Mean	1.00	9.65	30.2	83.3	81.1	60.1	34.6	4.88	2.26	0.60	0.00	0.00
Max.	2.60	29	138	186	178	149	66	11	3.40	2.20	0.00	0.00
Min.	0.20	1.70	4.80	26	29	29	10	1.30	1.60	0.00	0.00	0.00
Runoff - MCM.	2.678	25.842	78.183	223.085	217.210	157.334	92.621	12.643	6.048	1.598	0.000	0.000

WATER YEAR 1956 : Max. 186 Min. 0.00 Mean 25.9 Annual Runoff 817.243 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 5	14.00	8.85	271				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.3)

Location: Lat 13°- 59' - 09" N, Long 101°- 42' - 32" E, on left bank infront of office of Amphoe Kabin Buri and 500 meters downstream from confluence of Lum Phra Prong and Lam Hanuman, Prachin Buri.

Drainage Area: 7,402 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 0.00 m. (M.S.L.)

Bench Mark: K.B. - R.S./R.I.D.

Location: On left bank at 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: 1953, 1954, 1955 and 1964 to date.
Rated by Float: -
Rated by Current Meter: 1941, 1945, 1955 and 1964 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1964 - 67. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

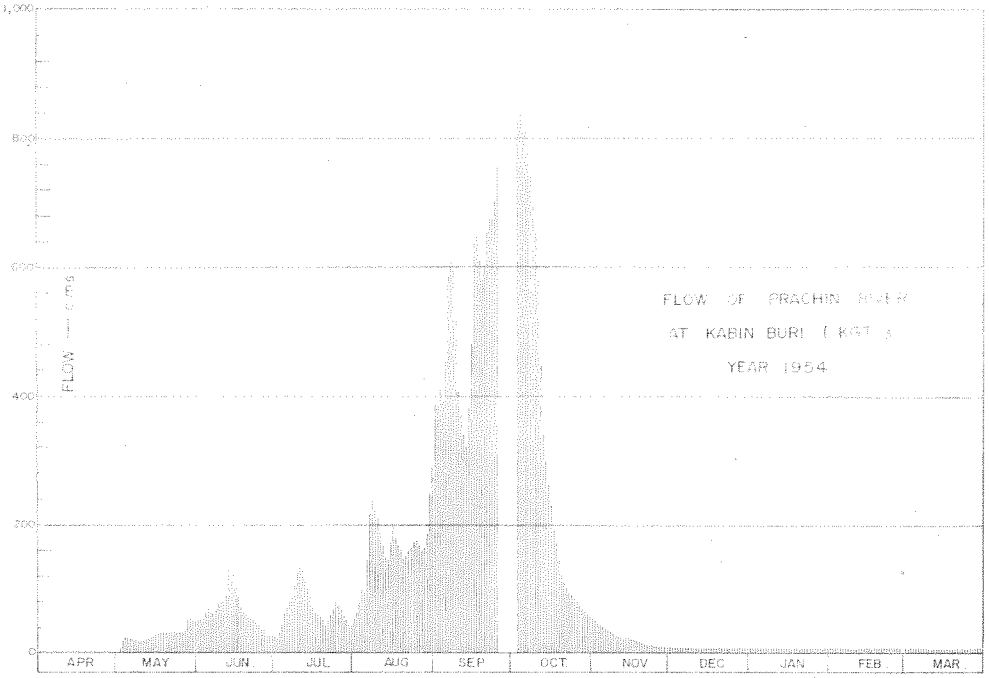
Remarks: No gage - height record for Sep.26 to Oct.5

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.36	2.25	1.51	2.24	7.26		2.27	0.94	0.86	0.83	0.81
2	.39	.87	.51	.47	.63	.22		.19	.94	.65	.83	.80
3	.38	1.65	.37	.21	4.08	.52	10.45	.10	.93	.85	.85	.80
4	.36	.49	.55	2.21	5.51	.26	.55	.03	.95	.85	.83	.80
5	.35	.47	.74	.49	.21	.87	.58	1.98	.92	.85	.85	.80
6	0.34	1.44	2.56	3.75	4.57	8.88	10.58	1.92	6.92	0.85	0.83	0.80
7	.32	.40	.47	.68	5.28	9.25	.14	.86	.91	.85	.85	.86
8	.31	.55	.68	3.10	.58	8.94	9.94	.77	.91	.85	.85	.80
9	.31	.38	.84	.48	.74	.55	.60	.68	.91	.85	.82	.80
10	.30	.30	.95	.83	.74	7.47	.34	.60	.91	.85	.82	.79
11	0.29	1.32	2.80	4.08	4.84	7.06	8.84	1.52	6.90	0.85	0.82	0.79
12	.28	.36	3.89	4.74	.51	6.79	7.80	.43	.90	.84	.82	.78
13	.28	.42	4.07	.52	.70	.50	6.74	.37	.90	.84	.82	.79
14	.27	.47	.02	.37	.14	9.12	.29	.51	.90	.84	.82	.79
15	.27	.34	5.82	5.10	.01	8.39	5.60	.45	.90	.84	.82	.79
16	0.26	1.60	5.37	2.67	5.05	9.24	5.34	1.54	6.88	0.84	0.82	0.77
17	.25	.67	.06	.54	4.66	.53	4.85	.52	.88	.84	.82	.77
18	.25	.60	2.70	.43	.48	.04	.53	.27	.87	.84	.81	.77
19	.21	.70	.47	.55	.56	8.81	.05	.28	.87	.84	.81	.77
20	.20	.71	.46	.23	.14	9.01	3.65	.19	.87	.84	.81	.77
21	0.19	1.71	2.32	2.11	4.21	9.35	3.46	1.15	6.87	0.84	0.81	0.76
22	.18	.79	.31	.25	.35	.50	.28	.11	.87	.84	.81	.76
23	.17	.78	.23	.42	.48	.49	.14	.07	.86	.84	.80	.75
24	.16	.77	.14	.87	.54	.64	.06	.05	.86	.84	.81	.75
25	.16	.75	.83	.91	.64	10.04	2.98	.00	.86	.84	.81	.76
26	0.15	1.74	1.95	2.70	4.16		2.88	1.00	6.86	0.84	0.81	0.77
27	.15	.88	.85	.64	.82		.78	0.97	.86	.84	.81	.78
28	.15	2.25	.66	.40	.93		.68	.96	.86	.84	.81	.80
29	.19	.28	.60	.35	.83		.56	.95	.86	.84		.80
30	.25	.24	.58	.42	5.35		.46	.96	.86	.86		.83
31		.21		.82	4.59		.36		.86	.83		.85
Mean	0.26	1.59	2.58	2.64	4.46			1.44	0.89	0.84	0.82	0.79
Max.	0.40	2.28	4.07	4.08	6.63			2.27	0.94	0.86	0.85	0.85
Min.	0.15	0.36	1.56	1.47	0.24			0.95	0.86	0.83	0.81	0.75

WATER YEAR 1954 : Max. m. Min. 0.15 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.00	2.60	55	26	53	388		54	11	9.20	8.60	8.20
2	2.80	9.40	65	35	68	384		51	11	9.00	8.60	8.00
3	2.80	21	58	37	91	414	824	47	11	9.00	8.60	8.00
4	2.60	26	65	50	102	390	840	44	11	9.00	8.60	8.00
5	2.50	25	74	65	97	454	845	42	10	9.00	8.60	8.00
6	2.40	24	65	74	170	587	813	40	10	9.00	8.60	8.00
7	2.20	25	62	81	220	629	774	37	10	9.00	8.60	8.00
8	2.10	23	71	92	241	596	742	34	10	9.00	8.60	8.00
9	2.10	21	79	111	224	513	691	31	10	9.00	8.40	8.00
10	2.00	20	85	129	210	409	652	29	10	9.00	8.40	7.85
11	1.90	21	82	139	189	370	582	27	10	9.00	8.40	7.85
12	1.80	22	91	124	170	341	446	24	10	8.80	8.40	7.85
13	1.80	24	143	115	151	315	337	22	10	8.80	8.40	7.85
14	1.70	25	140	102	142	374	296	20	10	8.80	8.40	7.85
15	1.70	27	128	87	175	493	257	24	10	8.80	8.40	7.85
16	1.60	29	105	70	202	638	224	23	9.60	8.80	8.40	7.55
17	1.50	31	90	65	180	650	190	21	9.60	8.80	8.40	7.55
18	1.30	32	72	60	168	610	171	19	9.40	8.80	8.20	7.55
19	1.10	32	62	56	159	577	141	18	9.40	8.80	8.20	7.55
20	1.00	32	61	52	147	605	119	17	9.40	8.80	8.20	7.55
21	0.95	32	58	47	152	653	110	15	9.40	8.80	8.20	7.40
22	0.90	35	55	52	160	676	101	14	9.40	8.80	8.20	7.40
23	0.85	34	52	60	168	674	94	13	9.20	8.80	8.20	7.25
24	0.80	34	49	70	174	697	90	13	9.20	8.80	8.20	7.25
25	0.80	33	44	82	177	758	86	12	9.20	8.80	8.20	7.40
26	0.75	33	41	74	167		81	12	9.20	8.80	8.20	7.50
27	0.75	38	37	69	161		76	11	9.20	8.80	8.20	7.70
28	0.75	53	31	59	165		71	11	9.20	8.80	8.20	8.00
29	0.95	54	29	53	189		65	11	9.20	8.80		8.00
30	1.50	53	28	48	267		61	11	9.20	8.60		8.60
31		51		44	327		57		9.20	8.60		9.00
Total	49.00	918.00	2,065	2,210	5,271		11,459	753	305.00	274.80	234.60	242.60
Mean	1.63	29.6	68.8	71.3	170		370	25.1	9.74	8.84	8.35	7.82
Max.	3.00	54	143	139	327		845	54	11	9.20	8.60	9.00
Min.	0.75	2.60	28	25	53		57	11	9.20	8.60	8.20	7.25
Runoff - mcm.	4.233	79.315	178.416	190.944	455.414		990.057	65.059	26.179	23.742	20.269	20.960

WATER YEAR 1954 : Max. 845 Min. 0.75 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	12.00	10.58	845				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.3)

Location: Lat 13° – 59' – 05" N, Long 101° – 42' – 32" E, on left bank infront of office of Amphoe Kabin Buri and 500 meters downstream, from confluence of Lam Phra Prong and Lam Hanuman, Prachin Buri.

Drainage Area: 7,502 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 0.00 m. (M.S.L.)

Bench Mark: B.M. – R.S. 1 R.I.D.

Location: On left bank at 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, 1945 and 1964 to date
Rated by Float: –
Rated by Current Meter: 1941, 1943, 1945 and 1964 to date

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

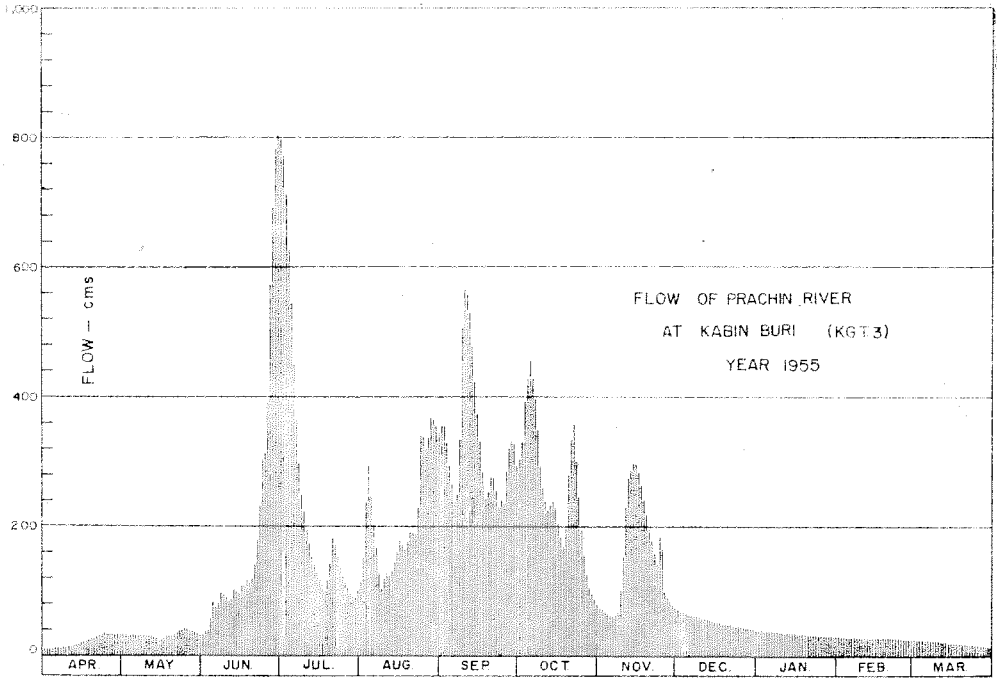
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation used is defined by discharge measurements made during 1964 – 67. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.86	1.70	1.75	10.29	3.54	6.93	5.37	2.75	2.66	1.98	1.61	1.46
2	.86	.70	.84	.32	4.04	.93	.66	.66	.65	.89	.60	.45
3	.88	.66	.93	9.74	5.54	.65	7.29	.60	.58	.68	.59	.45
4	.90	.68	2.37	.16	6.25	.26	.64	.54	.54	.87	.58	.44
5	.94	.68	.89	8.57	5.66	5.90	.87	.48	.51	.86	.57	.42
6	0.96	1.67	2.75	7.82	5.03	5.54	7.63	2.44	2.47	1.85	1.57	1.40
7	.99	.67	.86	.01	4.49	.68	.33	.47	.46	.84	.57	.39
8	1.00	.66	3.20	6.31	3.80	6.70	6.86	.61	.43	.84	.56	.38
9	.02	.66	.19	5.69	.33	8.28	.22	3.29	.39	.83	.56	.37
10	.07	.65	.07	.32	.64	.70	5.83	4.28	.37	.82	.55	.36
11	1.11	1.65	2.95	4.93	3.89	8.66	5.55	5.41	2.33	1.81	1.55	1.35
12	.15	.62	3.02	.56	.76	.46	.39	6.02	.30	.80	.55	.34
13	.18	.56	.30	.27	.89	9.98	.47	.16	.29	.79	.55	.32
14	.21	.49	.24	.02	4.08	.59	.55	.30	.26	.78	.55	.30
15	.25	.42	.19	3.84	.36	.10	.39	.27	.24	.77	.54	.30
16	1.29	1.47	3.44	3.69	4.64	6.66	5.05	6.12	2.21	1.75	1.54	1.28
17	.33	.55	.43	.49	.54	.10	4.72	5.87	.19	.74	.54	.27
18	.39	.64	.58	.27	.41	5.60	.48	.57	.15	.73	.53	.26
19	.47	.68	.49	.61	.62	.75	.96	.26	.13	.72	.53	.24
20	.54	.71	.62	4.06	.86	6.02	6.08	4.94	.10	.71	.53	.23
21	1.59	1.71	4.04	4.74	4.83	6.02	6.70	4.61	2.09	1.70	1.53	1.21
22	.64	.81	.67	.55	.84	5.74	.85	.29	.07	.70	.52	.20
23	.69	.88	5.90	.24	5.35	.42	.24	.01	.05	.68	.52	.19
24	.72	.93	6.36	5.99	6.78	.57	5.62	.72	.03	.68	.51	.18
25	.72	.97	.48	.71	.74	.52	4.92	.46	.02	.67	.51	.16
26	1.71	1.95	7.29	5.53	6.54	6.12	4.29	3.23	2.00	1.67	1.50	1.14
27	.71	.88	8.78	.36	.76	.56	5.76	.05	1.97	.66	.50	.12
28	.71	.84	9.61	.22	7.06	.68	.57	2.94	.96	.65	.48	.11
29	.70	.80	10.18	.12	.33	.64	.17	.82	.94	.64	.47	.10
30	.70	.75	.91	.04	6.92	.24	2.98	.74	.93	.63		.09
31		.71		.32	.80		.84		.91	.62		.08
Mean	1.31	1.70	4.41	5.29	5.16	6.60	5.59	4.10	2.23	1.76	1.54	1.31
Max.	1.72	1.97	10.31	10.29	7.06	8.70	7.87	6.30	2.66	1.90	1.61	1.46
Min.	0.86	1.42	1.75	3.04	5.33	5.42	2.94	2.44	1.91	1.62	1.47	1.08

WATER YEAR 1955 : Max. 10.31 m. Min. 0.86 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.20	32	33	798	114	355	303	74	70	39	29	25
2	9.20	32	37	771	153	355	329	70	68	39	29	24
3	9.60	31	40	712	238	328	391	67	66	38	29	24
4	10	31	58	626	293	294	427	65	65	38	28	24
5	11	31	81	544	246	265	454	62	63	37	28	24
6	11	31	74	448	202	238	426	61	62	37	28	23
7	12	31	80	363	168	248	395	62	61	37	28	23
8	12	31	97	298	127	333	348	67	60	37	28	22
9	12	31	96	248	105	504	291	101	59	36	28	22
10	13	30	90	222	119	562	259	156	58	36	27	22
11	14	30	84	195	132	556	258	229	56	35	27	21
12	15	30	88	173	125	528	227	275	55	35	27	21
13	16	28	102	155	132	468	253	287	55	35	27	21
14	17	26	99	140	144	422	238	297	53	34	27	20
15	18	24	96	129	161	372	227	295	55	34	27	20
16	20	25	109	121	177	329	203	285	51	33	27	19
17	21	27	108	111	171	281	182	263	51	33	27	19
18	23	30	116	100	164	242	168	240	49	33	27	19
19	25	31	111	117	176	253	197	218	48	33	27	18
20	27	32	118	143	191	275	279	196	47	32	27	18
21	29	32	141	185	189	275	333	176	47	32	27	17
22	30	35	179	172	189	262	357	156	46	32	27	17
23	32	38	235	155	224	329	292	140	45	32	27	17
24	33	40	302	138	340	240	243	182	44	31	26	16
25	33	42	313	122	337	256	194	166	44	31	26	16
26	32	40	391	113	319	283	156	98	43	31	26	15
27	32	38	573	105	358	320	125	89	42	31	26	15
28	32	37	692	98	368	331	105	84	41	30	25	14
29	32	35	781	93	365	328	95	78	41	30	25	14
30	32	33	802	89	354	292	86	74	40	30		14
31		32		103	342		79		39	30		14
Total	622	996	6,126	7,783	6,701	9,994	7,880	4,611	1,622	1,051	782	598
Mean	20.7	32.1	204	251	216	333	254	154	52.3	33.9	27.1	19.3
Max.	33	42	802	798	368	562	454	297	70	39	29	25
Min.	9.20	24	33	89	103	229	79	61	39	30	25	14
Runoff - mcm.	53.740	86.054	529.286	672.451	578.966	863.481	680.852	398.390	140.140	90.806	67.996	51.667

WATER YEAR 1955 : Max. 802 Min. 9.20 Mean 133 Annual Runoff 4,213.814 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 30	06.00	10.35	808				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PRACHIN RIVER BASIN

Prachin River at Kabin Buri, Prachin Buri (Kgt.5)

Location: Lat 15°- 59' - 05" N. Long 101°- 42' - 32" E. on left bank infront of office of Amphoe Kabin Buri and 500 meters downstream from confluence of Lam Phra Prong and Lam Hanuman, Prachin Buri.

Drainage Area: 7,502 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 0.00 m. (M.S.L.)

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

Location: On left bank at 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, 1945 and 1964 to date
Rated by Float: -
Rated by Current Meter: 1941, 1943, 1945 and 1964 to date

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

Overbank Flow Conditions: No overbank flow.

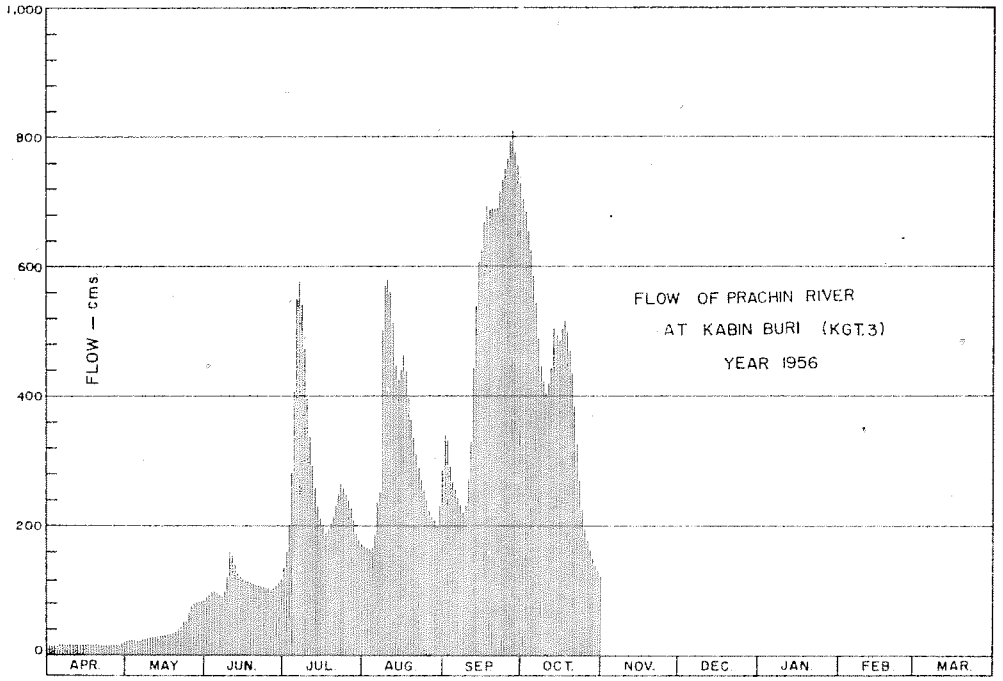
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1964 - 67. No upstream state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.07	1.35	3.04	3.93	4.48	6.78	9.67					
2	.06	.41	.12	4.33	.44	.67	.54					
3	.06	.40	.18	5.02	.40	.22	.34					
4	.06	.38	.25	6.09	.44	5.92	.13					
5	.08	.35	.18	7.44	.76	.76	8.85					
6	1.12	1.32	3.11	8.60	5.52	5.62	8.55					
7	.14	.37	.06	.79	.72	.45	.17					
8	.15	.43	.23	.54	8.22	.29	7.79					
9	.16	.49	.68	.01	.75	.43	.58					
10	.17	.53	4.31	7.34	.81	.98	.42					
11	1.17	1.54	4.25	6.74	8.68	6.62	7.56					
12	.18	.55	3.96	.24	.34	7.75	.77					
13	.18	.56	.76	5.81	7.79	8.53	8.28					
14	.17	.59	.66	.42	.63	9.00	.19					
15	.17	.62	.60	.14	.75	.15	.12					
16	1.17	1.64	3.57	4.95	7.93	9.44	8.27					
17	.16	.68	.53	.82	.73	.60	.33					
18	.16	.71	.49	.91	.34	.56	.24					
19	.15	.73	.47	5.04	.00	.58	7.98					
20	.15	.79	.43	.21	6.71	.58	.70					
21	1.15	1.90	3.40	5.43	6.45	9.58	7.16					
22	.14	2.03	.38	.69	.19	.76	6.58					
23	.13	.18	.36	.88	5.97	.88	5.91					
24	.12	.23	.33	.80	.75	.98	.32					
25	.12	.60	.32	.68	.55	10.08	4.90					
26	1.12	2.75	3.29	5.55	5.35	10.25	4.60					
27	.12	.82	.34	.39	.17	.35	.37					
28	.14	.87	.40	.11	.12	.14	.16					
29	.17	.89	.49	4.82	4.96	.02	3.98					
30	.26	.91	.61	.63	5.40	9.83	.83					
31		.95		.51	6.08		.69					
Mean	1.14	1.89	3.46	5.83	6.40	8.26	7.13					
Max.	1.26	2.95	4.31	8.79	8.81	10.35	9.67					
Min.	1.06	1.32	3.04	3.93	4.40	5.29	3.69					

WATER YEAR 1956 : Max. m. Min. 10.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	21	89	155	168	340	701					
2	13	23	93	159	165	330	682					
3	13	23	96	201	163	291	652					
4	13	22	99	280	165	267	622					
5	14	21	96	406	185	254	583					
6	15	21	92	548	236	243	541					
7	15	22	90	575	251	231	490					
8	15	24	98	540	497	220	445					
9	16	26	121	471	569	230	421					
10	16	27	158	396	577	271	404					
11	16	27	154	337	559	326	419					
12	16	27	137	292	512	440	442					
13	16	28	125	258	445	538	504					
14	16	29	120	229	426	604	493					
15	16	30	117	210	440	625	484					
16	16	30	115	196	462	667	503					
17	16	31	113	188	438	691	511					
18	16	32	111	194	396	685	499					
19	15	33	110	203	362	688	468					
20	15	35	108	215	334	688	434					
21	15	39	107	230	310	688	378					
22	15	44	106	248	288	715	322					
23	15	50	105	263	271	733	266					
24	15	52	105	257	253	749	222					
25	15	67	103	248	238	765	193					
26	15	74	101	236	224	792	175					
27	15	78	104	227	212	808	161					
28	15	80	107	208	208	774	149					
29	16	81	111	188	197	755	138					
30	19	82	117	177	228	725	129					
31		84		170	279		121					
Total	456	1,263	3,198	8,487	10,058	16,133	12,552					
Mean	15.2	40.7	107	274	324	538	405					
Max.	19	84	158	575	577	808	701					
Min.	13	21	89	135	163	220	121					
Runoff — mcm.	39.398	109.123	276.307	733.276	869.011	1,393.891	1,084.492					

WATER YEAR 1956 : Max. 808 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	18.00	10.37	811				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
RAYONG RIVER BASIN

Khlong Yai at Wat Phai Lom, Ban Khai, Rayong (Z.1)

Location: Lat 12°- 46' - 46" N, Long 101°- 17' - 55" E, on left bank 600 meters downstream from Amphoe Ban Khai, Rayong.

Drainage Area: 1,255 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.169 m. (M.S.L.)

Bench Mark: B.M. of Survey Department.

Location: Near district office of Amphoe Phanna Nikhom.
Elevation: +164.083 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: 1956 - 62
Rated by Float: -
Rated by Current Meter: 1956 - 62

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 poor. Stage - discharge relation used is defined by discharge measurements made during 1945. No state diversions above gage site.

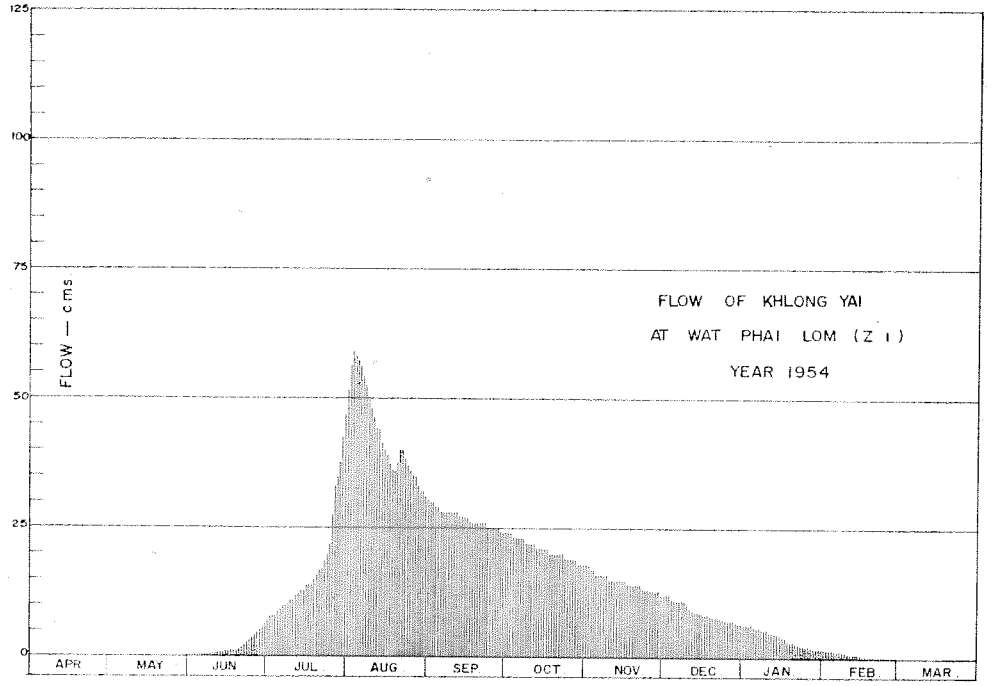
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	100.41	100.51	100.72	101.43	103.58	102.79	102.49	102.16	101.82	101.37	100.93	100.66
2	.40	.52	.73	.48	.69	.78	.48	.15	.80	.36	.92	.65
3	.40	.53	.74	.50	.78	.77	.47	.13	.78	.35	.91	.64
4	.40	.54	.75	.54	.76	.74	.46	.11	.76	.34	.90	.63
5	.39	.54	.76	.57	.73	.72	.45	.09	.75	.33	.89	.62
6	100.39	100.55	100.77	101.60	103.68	102.70	102.44	102.07	101.74	101.32	100.88	100.61
7	.41	.55	.78	.63	.65	.68	.43	.06	.73	.31	.88	.60
8	.42	.56	.79	.66	.57	.68	.42	.05	.72	.29	.87	.59
9	.42	.56	.80	.68	.52	.67	.41	.04	.71	.27	.86	.58
10	.41	.57	.81	.72	.46	.67	.40	.03	.68	.25	.85	.57
11	100.41	100.57	100.82	101.76	103.39	102.66	102.38	102.02	101.61	101.24	100.84	100.56
12	.40	.58	.83	.79	.32	.66	.37	.01	.57	.23	.83	.55
13	.40	.59	.84	.82	.31	.65	.36	.00	.56	.21	.82	.54
14	.39	.59	.85	.85	.26	.65	.35	101.99	.55	.20	.81	.53
15	.39	.59	.86	.89	.19	.64	.34	.98	.54	.18	.80	.52
16	100.38	100.60	100.87	101.91	103.13	102.63	102.33	101.97	101.53	101.15	100.79	100.51
17	.38	.60	.88	.93	.06	.62	.32	.96	.52	.12	.78	.50
18	.38	.61	.89	.96	.03	.61	.31	.95	.51	.07	.77	.49
19	.38	.61	.90	102.01	.01	.61	.30	.94	.50	.05	.76	.48
20	.40	.62	.91	.05	.09	.60	.29	.93	.49	.03	.75	.48
21	100.41	100.63	100.93	102.10	103.18	102.59	102.28	101.92	101.48	101.01	100.74	100.47
22	.42	.63	.98	.14	.16	.58	.27	.91	.47	.00	.73	.47
23	.43	.64	101.03	.22	.09	.57	.26	.90	.46	100.99	.72	.46
24	.44	.64	.08	.30	.06	.56	.25	.89	.45	.98	.71	.46
25	.45	.65	.13	.38	.01	.55	.24	.88	.44	.97	.70	.45
26	100.46	100.66	101.18	102.74	102.99	102.53	102.23	101.87	101.43	100.96	100.69	100.45
27	.47	.67	.23	.91	.97	.53	.22	.86	.42	.95	.68	.44
28	.48	.68	.27	103.01	.91	.52	.21	.85	.41	.94	.67	.44
29	.49	.69	.33	.10	.86	.51	.20	.84	.40	.94		.44
30	.50	.70	.37	.29	.84	.50	.19	.83	.39	.94		.43
31		.71		.42	.81		.18		.38	.93		.43
Mean	100.42	100.60	100.93	102.53	103.26	102.63	102.33	101.98	101.57	101.14	100.79	100.52
Max.	100.50	100.71	101.37	103.42	103.78	102.79	102.49	102.16	101.82	101.37	100.93	100.66
Min.	100.38	100.51	100.72	101.43	102.81	102.50	102.18	101.83	101.38	100.93	100.67	100.43

WATER YEAR 1954 : Max. 103.78 m. Min. 100.38 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.10	7.16	52	30	24	18	12	6.44	1.80	
2			0.15	7.26	56	30	24	18	12	6.32	1.70	
3			0.20	8.00	59	30	24	17	12	6.20	1.60	
4			0.25	8.52	58	29	23	17	11	6.08	1.50	
5			0.30	8.91	57	29	23	16	11	5.96	1.40	
6			0.35	9.30	56	28	23	16	11	5.84	1.30	
7			0.40	9.69	54	28	23	16	11	5.72	1.30	
8			0.45	10	52	28	23	16	11	5.49	1.20	
9			0.50	10	50	28	22	16	11	5.27	1.10	
10			0.60	11	48	28	22	15	10	5.05	1.00	
11			0.70	11	46	28	22	15	9.43	4.94	0.90	
12			0.80	12	44	28	22	15	8.91	4.83	0.80	
13			0.90	12	44	27	21	15	8.78	4.61	0.70	
14			1.00	13	42	27	21	15	8.65	4.50	0.60	
15			1.10	13	40	27	21	15	8.52	4.50	0.50	
16			1.20	14	39	27	21	15	8.39	4.00	0.45	
17			1.30	14	37	26	21	14	8.26	3.70	0.40	
18			1.40	14	36	26	20	14	8.13	3.20	0.35	
19			1.50	15	36	26	20	14	8.00	3.00	0.30	
20			1.60	16	38	26	20	14	7.88	2.80	0.25	
21			1.80	17	40	26	20	14	7.76	2.60	0.20	
22			2.30	17	40	26	20	14	7.64	2.50	0.15	
23			2.80	19	38	26	20	13	7.52	2.40	0.10	
24			3.30	20	37	25	19	13	7.40	2.30	0.05	
25			3.80	22	36	25	19	13	7.28	2.20	0.00	
26			4.30	29	35	25	19	13	7.16	2.10	0.00	
27			4.83	33	35	25	19	13	7.04	2.00	0.00	
28			5.27	35	33	25	19	13	6.92	1.90	0.00	
29			5.96	38	32	24	18	13	6.80	1.90		
30			6.44	45	32	24	18	12	6.68	1.90		
31		0.05		47	31		18		6.56	1.80		
Total		0.05	55.60	545.34	1,333	807	649	442	275.71	121.85	19.65	
Mean		0.00	1.85	17.6	43.0	26.9	20.9	14.7	8.89	3.93	0.702	
Max.		0.05	6.44	47	59	30	24	18	12	6.44	1.80	
Min.		0.00	0.10	7.16	31	24	18	12	6.56	1.80	0.00	
Runoff — mcm.		0.004	4.804	47.117	115.171	69.725	56.074	38.189	23.821	10.528	1.698	

WATER YEAR 1954 : Max. 59 Min. 0.00 Mean 11.6 Annual Runoff 367.131 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 3	18.00	105.78	59				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
RAYONG RIVER BASIN

Khlong Yai at Wat Phai Lom, Ban Khai, Rayong (2.1)

Location: Lat 12°- 46' - 40" N, Long 101°- 17' - 55" E, on left bank 600 meters downstream from Amphoe Ban Khai, Rayong.

Drainage Area: 1,255 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.169 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: 1945 - 58

Rating Operation:

Period of Rating: 1945
Rated by Float: -
Rated by Current Meter: 1945

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

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1945. No state diversions above gage site.

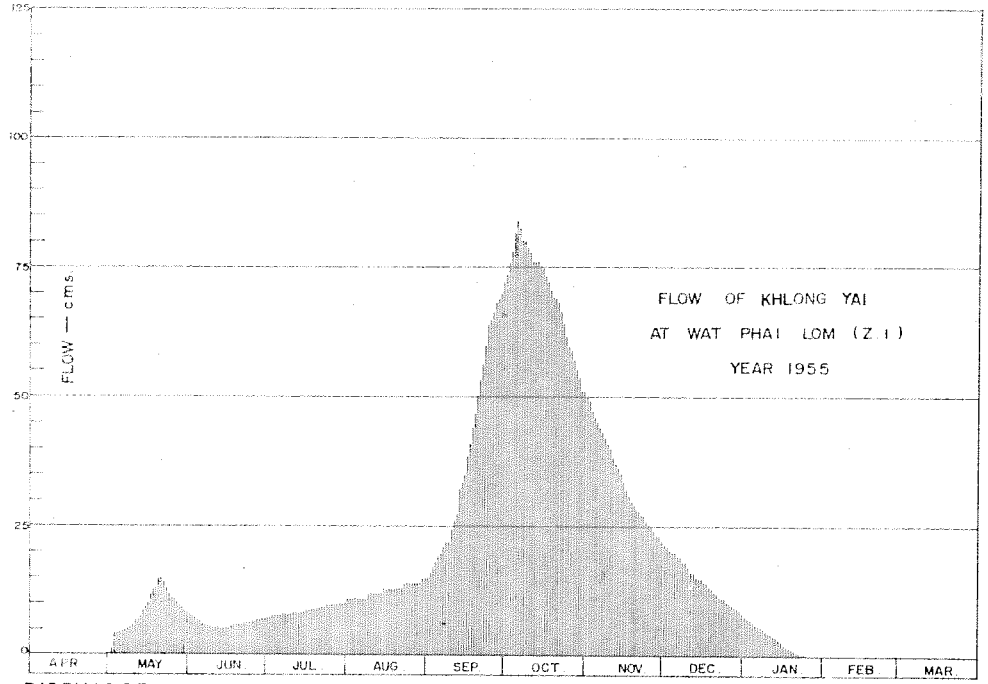
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	100.42	100.75	101.49	101.44	101.70	102.03	104.15	103.51	102.36	101.45	100.53	100.36
2	.41	.94	.46	.45	.71	.08	.18	.47	.33	.42	.50	.36
3	.41	101.17	.44	.46	.72	.13	.23	.42	.31	.39	.47	.35
4	.41	.19	.41	.46	.73	.18	.28	.38	.28	.36	.46	.35
5	.42	.20	.38	.47	.74	.23	.33	.34	.26	.33	.45	.35
6	100.40	101.21	101.35	101.48	101.75	102.28	104.31	103.31	102.22	101.31	100.44	100.34
7	.39	.24	.31	.48	.76	.33	.27	.27	.21	.28	.44	.34
8	.39	.25	.31	.49	.77	.38	.26	.23	.18	.25	.44	.34
9	.38	.28	.30	.49	.78	.40	.25	.20	.15	.22	.43	.33
10	.38	.33	.29	.50	.79	.47	.23	.16	.12	.19	.43	.33
11	100.37	101.38	101.28	101.51	101.80	102.59	104.19	103.11	102.08	101.14	100.42	100.33
12	.36	.41	.27	.52	.81	.69	.18	.06	.06	.12	.42	.32
13	.36	.46	.26	.52	.82	.85	.18	.01	.03	.07	.42	.32
14	.36	.54	.27	.53	.83	.89	.17	102.96	101.99	.04	.41	.32
15	.36	.60	.28	.54	.84	.99	.16	.91	.97	.01	.41	.32
16	100.36	101.69	101.29	101.55	101.85	103.11	104.13	102.86	101.95	100.97	100.41	100.31
17	.35	.79	.30	.56	.86	.21	.11	.82	.91	.92	.40	.31
18	.35	.86	.31	.57	.87	.31	.07	.77	.89	.90	.40	.30
19	.34	.90	.32	.57	.88	.39	.04	.72	.86	.87	.40	.30
20	.34	.98	.33	.58	.89	.49	.03	.69	.82	.84	.39	.30
21	100.33	101.97	101.34	101.59	101.90	103.60	104.00	102.67	101.79	100.82	100.39	100.29
22	.33	.91	.35	.60	.90	.70	103.96	.65	.77	.79	.39	.29
23	.32	.86	.36	.61	.91	.79	.92	.63	.73	.76	.38	.29
24	.32	.81	.37	.62	.91	.88	.84	.59	.71	.72	.38	.30
25	.31	.75	.38	.63	.92	.94	.80	.55	.69	.71	.38	.30
26	100.31	101.71	101.39	101.64	101.93	103.97	103.77	102.52	101.65	100.67	100.37	100.31
27	.30	.68	.40	.65	.94	104.00	.72	.47	.63	.64	.37	.31
28	.30	.64	.41	.66	.95	.05	.67	.45	.60	.62	.37	.32
29	.29	.60	.42	.67	.96	.05	.63	.42	.57	.60	.36	.32
30	.27	.56	.43	.68	.97	.10	.56	.39	.54	.58		.33
31		.53		.69	.99		.56		.50	.55		.34
Mean	100.35	101.52	101.34	101.55	101.84	103.07	104.04	102.92	101.94	100.98	100.42	100.32
Max.	100.42	101.98	101.49	101.69	101.99	104.10	104.33	103.51	102.36	101.45	100.53	100.36
Min.	100.27	100.75	101.26	101.44	101.70	102.03	103.56	102.39	101.50	100.55	100.36	100.29

WATER YEAR 1955 : Max. 104.33 m. Min. 100.28 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.25	7.88	7.28	11	15	74	50	21	7.40		
2		1.90	7.52	7.40	11	16	76	49	21	7.04		
3		4.20	7.28	7.52	11	17	78	47	20	6.68		
4		4.40	6.92	7.52	11	18	81	46	20	6.32		
5		4.50	6.56	7.64	11	19	84	45	20	5.96		
6		4.61	6.20	7.76	11	20	83	44	19	5.72		
7		4.94	5.72	7.76	11	21	80	43	19	5.38		
8		5.05	5.72	7.88	11	22	80	42	18	5.05		
9		5.38	5.60	7.88	12	22	79	41	18	4.72		
10		5.96	5.49	8.00	12	24	78	40	17	4.40		
11		6.56	5.38	8.13	12	26	76	38	16	3.90		
12		6.92	5.27	8.26	12	28	76	37	16	3.70		
13		7.52	5.16	8.26	12	32	76	36	15	3.20		
14		8.52	5.27	8.39	12	33	75	35	15	2.90		
15		9.30	5.38	8.52	13	35	75	33	15	2.60		
16		10	5.49	8.64	13	38	73	32	14	2.20		
17		12	5.60	8.78	13	41	72	31	14	1.70		
18		13	5.72	8.91	13	44	70	30	13	1.50		
19		13	5.84	8.91	13	46	69	29	13	1.20		
20		15	5.96	9.04	13	49	69	28	12	0.90		
21		15	6.08	9.17	13	53	68	28	12	0.70		
22		14	6.20	9.30	13	56	66	27	11	0.45		
23		13	6.32	9.43	14	60	64	27	11	0.30		
24		12	6.44	9.56	14	63	61	26	11	0.10		
25		11	6.56	9.69	14	65	60	25	10	0.05		
26		11	6.68	9.82	14	66	59	25	9.95			
27		10	6.80	9.95	14	68	57	24	9.69			
28		9.82	6.92	10	14	69	55	23	9.30			
29		9.30	7.04	10	14	70	54	23	8.91			
30		8.78	7.16	10	15	72	51	22	8.52			
31		8.39		10	15		51		8.00			
Total		265.30	186.16	269.40	392	1,208	2,170	1,026	445.37	84.07		
Mean		8.56	6.20	8.69	12.6	40.3	70.0	34.2	14.4	2.71		
Max.		15	7.88	10	15	72	84	50	21	7.40		
Min.		0.25	5.16	7.28	11	15	51	22	8.00	0.00		
Runoff - MCM.		22.922	16.084	25.276	33.869	104.371	187.488	88.646	38.480	7.264		

WATER YEAR 1955 : Max. 84 Min. 0.00 Mean 16.5 Annual Runoff 522.400 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	18.00	104.33	84				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
RAYONG RIVER BASIN

Khlong Yai at Wat Phai Lom, Ban Khai, Rayong (Z.1)

Location: Lat 12°- 46' - 46" N, Long 101°- 17' - 55" E, on left bank 600 meters downstream from Amphoe Ban Khai, Rayong.

Drainage Area: 1,255 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +105.169 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: 1945 - 58

Rating Operation:

Period of Rating: 1945
Rated by Float: -
Rated by Current Meter: 1945

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

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1945. No state diversions above gage site.

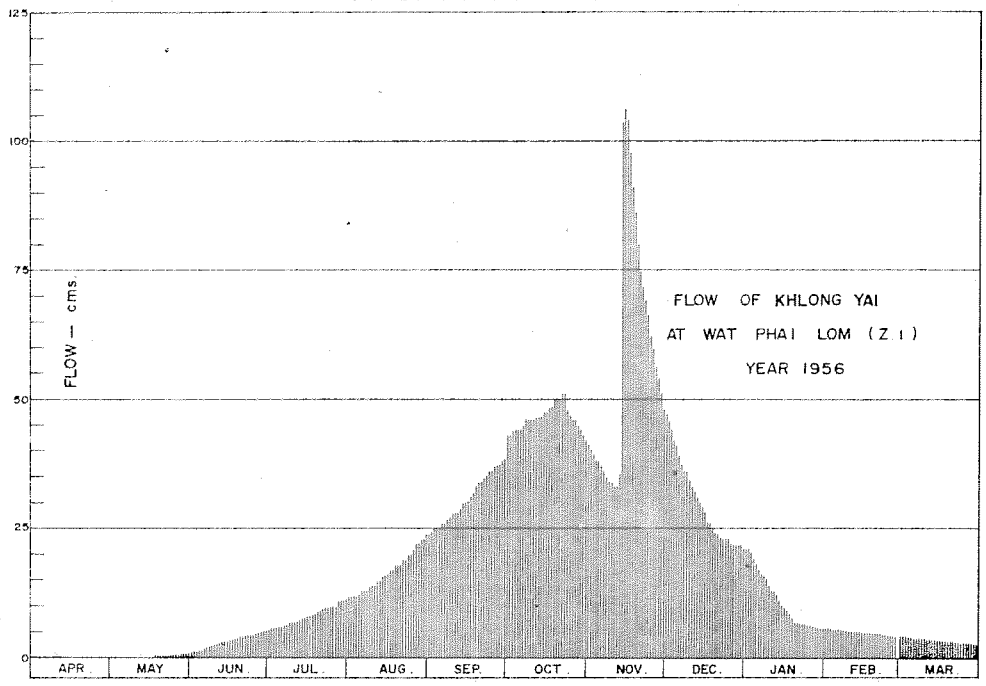
Remarks: Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	100.34	100.55	100.85	101.29	101.78	102.48	103.27	103.22	103.41	102.34	101.32	101.17
2	.34	.56	.86	.30	.79	.51	.28	.19	.34	.32	.31	.17
3	.35	.56	.87	.31	.81	.52	.30	.15	.31	.28	.30	.16
4	.36	.57	.89	.32	.82	.53	.31	.09	.25	.24	.29	.15
5	.36	.58	.90	.33	.83	.55	.32	.08	.20	.19	.28	.15
6	100.37	100.59	100.92	101.35	101.85	102.57	103.33	103.05	103.15	102.14	101.28	101.14
7	.37	.60	.95	.36	.87	.59	.35	.02	.07	.09	.28	.13
8	.38	.61	.96	.37	.90	.62	.37	102.98	.03	.04	.27	.13
9	.39	.62	.98	.39	.92	.65	.38	.92	.00	101.99	.27	.12
10	.40	.64	101.00	.40	.93	.67	.39	.92	102.95	.94	.26	.11
11	100.40	100.65	101.01	101.41	101.96	102.68	103.40	102.91	102.88	101.89	101.26	101.10
12	.40	.66	.03	.43	102.00	.70	.41	.90	.84	.84	.26	.10
13	.41	.67	.05	.45	.03	.72	.42	103.02	.80	.79	.25	.10
14	.41	.68	.06	.47	.05	.75	.43	104.55	.75	.74	.25	.09
15	.42	.68	.07	.48	.07	.77	.44	.58	.71	.69	.24	.09
16	100.43	100.69	101.08	101.50	102.08	102.79	103.45	104.56	102.66	101.64	101.24	101.08
17	.44	.70	.09	.51	.10	.85	.47	.50	.61	.58	.23	.07
18	.45	.71	.11	.53	.13	.86	.49	.43	.57	.55	.23	.07
19	.46	.72	.12	.55	.15	.89	.50	.35	.53	.46	.22	.06
20	.46	.73	.14	.57	.17	.92	.51	.26	.49	.41	.22	.06
21	100.47	100.74	101.16	101.59	102.20	102.95	103.52	104.17	102.47	101.40	101.21	101.05
22	.48	.75	.17	.60	.22	.97	.58	.10	.45	.39	.21	.05
23	.48	.76	.19	.62	.24	.98	.58	.04	.44	.38	.20	.04
24	.49	.77	.19	.63	.28	103.00	.44	105.95	.43	.37	.20	.04
25	.50	.78	.20	.65	.31	.02	.42	.87	.42	.36	.19	.03
26	100.51	100.79	101.21	101.67	102.33	103.04	103.39	103.80	102.41	101.35	101.19	101.03
27	.52	.80	.22	.69	.37	.05	.37	.70	.40	.35	.18	.02
28	.53	.81	.23	.70	.40	.07	.35	.64	.39	.34	.18	.02
29	.54	.82	.27	.73	.43	.08	.32	.55	.38	.33		.01
30	.55	.83	.28	.75	.45	.11	.29	.46	.37	.33		.01
31		.84		.77	.47		.25		.36	.32		.00
Mean	100.43	100.69	101.07	101.51	102.09	102.79	103.40	103.63	102.74	101.71	101.24	101.08
Max.	100.55	100.84	101.28	101.77	102.47	103.11	103.58	104.58	103.41	102.34	101.32	101.17
Min.	100.34	100.55	100.85	101.29	101.78	102.48	103.25	102.90	102.36	101.32	101.18	101.00

WATER YEAR 1956 : Max. 104.58 m. Min. 100.34 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1956 TO MARCH 31,1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.00	5.49	12	24	43	41	47	21	5.84	4.20
2			1.10	5.60	12	24	43	40	45	21	5.72	4.20
3			1.20	5.72	12	25	44	39	44	20	5.60	4.10
4			1.40	5.84	12	25	44	38	42	19	5.49	4.00
5			1.50	5.96	12	25	44	38	41	18	5.38	4.00
6			1.70	6.20	13	26	44	37	39	17	5.38	3.90
7			2.00	6.32	13	26	45	36	37	16	5.38	3.80
8			2.10	6.44	13	27	46	35	36	16	5.27	3.80
9			2.30	6.68	14	27	46	34	36	15	5.27	3.70
10			2.50	6.80	14	28	46	34	34	14	5.16	3.60
11			2.60	6.92	14	28	46	33	33	13	5.16	3.50
12			2.80	7.16	15	28	47	33	32	13	5.16	3.50
13			3.00	7.40	15	29	47	36	31	12	5.05	3.50
14			3.10	7.64	16	30	47	103	30	11	5.05	3.40
15			3.20	7.76	16	30	48	106	29	10	4.94	3.40
16			3.30	8.00	16	30	48	104	28	9.82	4.94	3.30
17			3.40	8.13	17	31	49	97	26	9.04	4.83	3.20
18		0.05	3.60	8.39	17	32	49	91	26	8.39	4.83	3.20
19		0.10	3.70	8.65	18	33	50	86	25	7.52	4.72	3.10
20		0.15	3.90	8.91	18	34	50	80	24	6.92	4.72	3.10
21		0.20	4.10	9.17	18	34	50	75	24	6.80	4.61	3.00
22		0.25	4.20	9.30	19	35	52	72	23	6.68	4.61	3.00
23		0.30	4.40	9.56	19	35	52	69	23	6.56	4.50	2.90
24		0.35	4.40	9.69	20	36	48	66	23	6.44	4.50	2.90
25		0.40	4.50	9.95	20	36	47	62	23	6.32	4.40	2.80
26		0.45	4.61	10	21	37	46	60	22	6.20	4.40	2.80
27		0.50	4.72	10	22	37	46	56	22	6.20	4.30	2.70
28		0.60	4.83	11	22	37	45	54	22	6.08	4.30	2.70
29		0.70	5.27	11	23	38	44	51	22	5.96		2.60
30		0.80	5.38	11	23	38	43	48	22	5.96		2.60
31		0.90		11	24		42		21	5.84		2.50
Total		5.75	95.81	251.68	520	925	1,441	1,754	932	346.73	139.51	103.00
Mean		0.18	3.19	8.12	16.8	30.8	46.5	58.5	30.1	11.2	4.98	3.32
Max.		0.90	5.38	11	24	38	52	106	47	21	5.84	4.20
Min.		0.00	1.00	5.49	12	24	42	33	21	5.84	4.30	2.50
Runoff - MCM.		0.497	8.278	21.745	44.928	79.920	124.502	151.546	80.525	29.957	12.054	8.899

WATER YEAR 1956 : Max. 106 Min. 0.00 Mean 17.8 Annual Runoff 562.851 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 15	18.00	104.58	106				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
MAE KLONG RIVER BASIN

Mae Klong River at Tha Muang, Kanchanaburi (K.4)

Location: Lat 13°- 57' - 38" N, Long 99°- 38' - 11" E, on left bank at Wat Si Loha Ratchabamrung, Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 26,441 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +12.00 m. (M.S.L.)

Bench Mark:

Location: At foot of tamarind tree infront of Amphoe Tha Muang Office.
Elevation: +23.781 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 - 56, 1962 to date.

Rating Operation:

Period of Rating: 1943 - 47, 1962 to date.
Rated by Float: 1943 - 47
Rated by Current Meter: 1962 to date

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

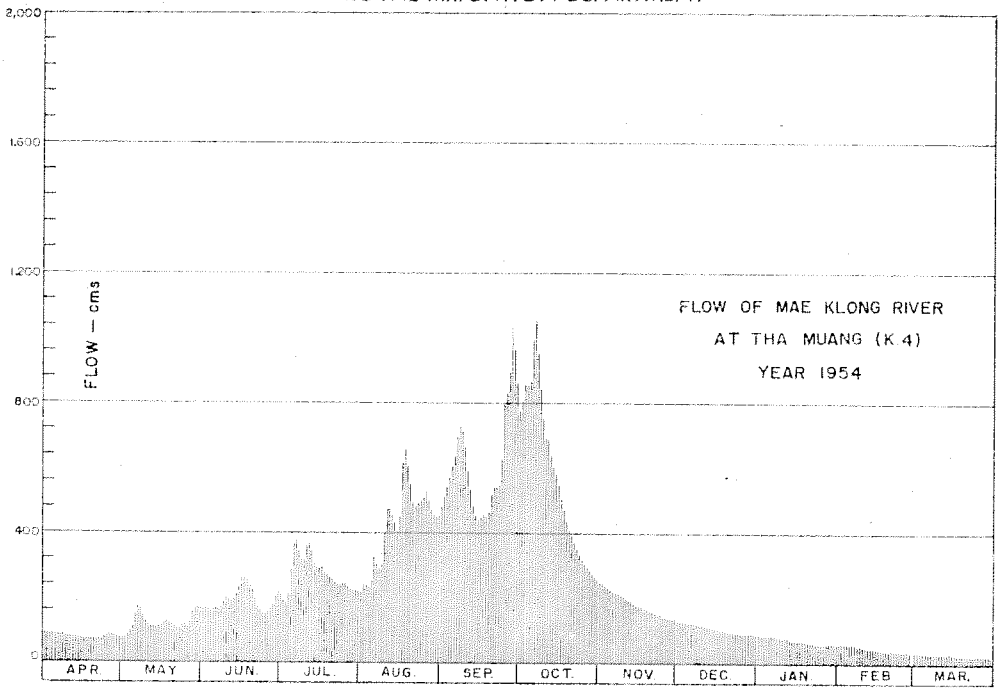
Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1943 - 47. Upstream state diversions for irrigation of about 2,960 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13.22	13.10	13.82	14.06	14.16	15.52	16.70	14.32	13.57	13.24	12.98	12.67
2	.22	.16	.83	13.97	.30	.68	.81	.29	.56	.23	.97	.66
3	.20	.21	.81	.94	.26	.65	.99	.25	.54	.22	.97	.66
4	.20	.33	.77	14.15	.25	.90	.97	.22	.53	.22	.97	.66
5	.20	.47	.81	.49	.38	16.04	17.04	.17	.53	.21	.96	.65
6	13.19	13.74	13.85	14.97	14.78	16.23	17.47	14.16	13.52	13.20	12.96	12.64
7	.19	.86	.83	15.06	.65	.39	.66	.15	.52	.18	.95	.64
8	.18	.82	.86	14.85	.57	.51	.25	.12	.51	.17	.94	.63
9	.14	.63	.95	.71	.65	.44	16.85	.08	.50	.16	.92	.62
10	.13	.54	14.04	.72	15.19	.19	.53	.06	.48	.15	.88	.61
11	13.11	13.47	14.01	14.94	15.48	15.89	16.35	14.00	13.47	13.13	12.84	12.60
12	.11	.42	13.97	.99	.47	.66	.36	13.96	.44	.11	.82	.59
13	.10	.40	14.02	.86	.34	.50	.11	.96	.43	.09	.81	.58
14	.09	.39	.11	.67	.27	.36	.02	.92	.40	.08	.80	.58
15	.07	.41	.27	.58	.16	.30	15.93	.89	.39	.07	.78	.58
16	13.07	13.48	14.40	14.59	15.36	15.34	15.76	13.87	13.38	13.06	12.77	12.57
17	.06	.52	.41	.51	16.05	.38	.57	.86	.37	.06	.76	.56
18	.06	.56	.35	.50	.24	.36	.40	.84	.36	.05	.75	.56
19	.07	.51	.29	.44	15.97	.43	.28	.81	.34	.04	.74	.55
20	.09	.46	.16	.40	.72	.68	.16	.78	.32	.03	.73	.54
21	13.06	13.42	14.01	14.36	15.55	15.77	15.07	13.76	13.31	13.02	12.73	12.53
22	.07	.38	13.88	.30	.49	.76	14.96	.73	.31	.02	.72	.53
23	.09	.42	.79	.29	.56	.80	.87	.71	.30	.02	.71	.52
24	.12	.45	.73	.27	.59	16.14	.77	.70	.30	.01	.70	.51
25	.17	.48	.73	.31	.65	.77	.71	.66	.29	.00	.70	.50
26	13.20	13.43	13.76	14.31	15.70	16.92	14.64	13.64	13.28	13.00	12.70	12.49
27	.18	.55	.84	.24	.60	17.14	.58	.63	.27	.00	.69	.49
28	.17	.81	.90	.20	.45	.64	.52	.62	.27	12.99	.68	.48
29	.14	.85	14.09	.19	.38	.34	.47	.60	.27	.98		.48
30	.10	.87	.16	.18	.34	16.99	.41	.59	.26	.98		.48
31		.86		.17	.37		.37		.25	.98		.48
Mean	13.13	13.51	13.98	14.46	15.22	16.06	14.17	13.91	13.39	13.08	12.81	12.56
Max.	13.22	13.87	14.41	15.06	16.24	17.64	17.66	14.32	13.57	13.24	12.98	12.67
Min.	13.06	13.10	13.73	13.94	14.16	15.30	14.37	13.59	13.25	12.98	12.68	12.48

WATER YEAR 1954 : Max. 17.66 m. Min. 12.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	85	72	164	202	218	484	775	245	128	87	59	32
2	85	79	165	187	242	520	805	240	126	86	58	31
3	83	84	162	182	235	561	654	235	124	85	58	31
4	83	98	156	216	233	525	849	228	122	85	58	31
5	83	114	162	274	256	607	862	220	122	84	57	30
6	82	152	168	365	327	652	995	218	121	83	57	29
7	82	170	163	384	303	693	1,051	216	121	81	56	29
8	81	164	170	341	289	725	927	211	119	80	55	29
9	76	136	184	314	303	706	815	205	118	79	53	28
10	75	124	198	316	412	643	750	202	116	77	49	27
11	73	114	194	359	476	521	683	192	114	75	46	26
12	73	108	187	369	473	516	686	186	111	73	44	26
13	72	106	195	343	445	480	623	186	110	71	43	25
14	71	105	210	306	429	449	602	179	106	70	42	25
15	69	107	237	290	405	436	580	174	105	69	40	25
16	69	116	259	292	445	445	539	171	104	68	40	24
17	68	121	261	296	609	454	495	170	102	68	39	24
18	68	126	250	276	655	449	468	167	101	66	38	24
19	69	119	240	266	590	465	432	162	99	65	37	23
20	71	113	218	259	530	520	405	158	96	64	36	22
21	68	108	194	252	491	542	386	155	95	63	36	22
22	69	104	173	242	478	539	363	150	95	63	36	22
23	71	108	159	240	493	549	345	147	94	63	35	21
24	74	112	150	237	500	651	325	146	94	62	34	20
25	80	116	150	244	513	794	314	140	93	61	34	19
26	83	110	155	244	525	835	301	138	92	61	34	19
27	81	125	167	232	502	896	290	136	91	61	33	19
28	80	162	176	225	469	1,044	280	135	91	60	32	18
29	76	168	206	223	454	954	271	132	91	59		18
30	72	171	218	222	445	854	261	131	90	59		18
31		170		220	451		254		88	59		18
Total	2,272	3,782	5,691	8,418	13,200	18,587	17,560	5,373	3,279	2,187	1,239	755
Mean	75.7	122	190	271	426	620	566	179	106	70.5	44.2	24.3
Max.	85	171	261	384	655	1,044	1,051	245	128	87	59	32
Min.	68	72	150	182	218	436	254	131	88	59	32	18
Runoff — mcm.	196.300	326.764	491.703	727.315	1,140.480	1,605.916	1,517.184	464.227	283.305	188.956	107.049	65.232

WATER YEAR 1954 : Max. 1,051 Min. 18 Mean 226 Annual Runoff 7,114.435 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 7	06.00	17.69	1,060				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MAE KLONG RIVER BASIN

Mae Klong River at Tha Muang, Kanchanaburi (K.4)

Location: Lat 13°- 57' - 38" N, Long 99°- 38' - 11" E, on left bank at Wat Si Loha Ratchabamrung, Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 26,441 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +12.00 m. (M.S.L.)

Bench Mark:

Location: At foot of tamarind tree infront of Amphoe Tha Muang Office.
Elevation: +23.781 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 - 56, 1962 to date.

Rating Operation:

Period of Rating: 1943 - 47, 1962 to date.
Rated by Float: 1943 - 47
Rated by Current Meter: 1962 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage discharge relation used is defined by discharge measurements made during 1943 - 47. Upstream state diversions for irrigation of about 2,960 hectares. No adjustment made for virgin flow.

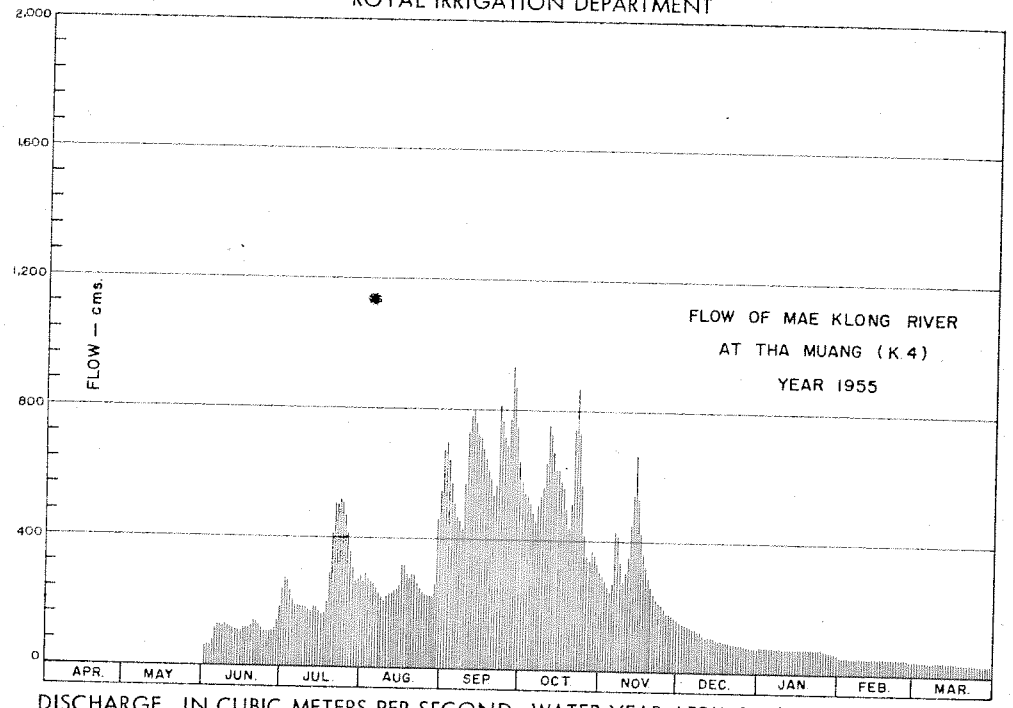
Remarks: No gage - height record for Apr. 1 to May 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			13.01	14.32	14.45	16.33	15.87	14.60	13.75	13.19	12.93	12.83
2			.01	.50	.57	.41	.76	.48	.72	.18	.93	.81
3			.01	.42	.48	.16	.74	.56	.69	.17	.93	.80
4			.20	.25	.43	15.88	.64	.30	.65	.16	.93	.80
5			.50	.06	.40	.62	.51	.63	.63	.16	.91	.79
6			13.57	13.99	14.32	15.44	15.41	15.26	13.62	13.16	12.91	12.78
7			.56	.99	.23	.38	.63	.17	.59	.15	.91	.78
8			.52	.96	.17	.25	.77	14.70	.55	.15	.91	.81
9			.57	.96	.10	.85	.88	.46	.54	.15	.91	.83
10			.52	.94	.19	16.51	16.27	.43	.43	.15	.91	.81
11			13.50	13.89	14.21	16.73	16.62	14.96	13.42	13.15	12.91	12.81
12			.46	.87	.23	.79	.44	15.45	.42	.15	.91	.79
13			.45	.98	.28	.52	.25	.77	.41	.15	.91	.78
14			.43	.96	.31	.48	.01	16.28	.41	.15	.90	.79
15			.44	.86	.40	.46	.08	15.57	.35	.15	.90	.79
16			13.51	13.80	14.72	16.30	15.86	15.18	13.34	13.15	12.90	12.79
17			.49	.88	.74	.18	.85	14.84	.33	.15	.90	.79
18			.50	14.15	.58	.05	.48	.69	.32	.15	.89	.75
19			.57	.57	.48	15.91	.30	.52	.31	.15	.89	.75
20			.67	15.27	.58	.75	.59	.37	.29	.15	.89	.75
21			13.64	15.62	14.56	15.91	16.63	14.26	13.25	13.15	12.89	12.75
22			.56	.60	.42	16.83	17.08	.18	.24	.15	.87	.76
23			.47	.67	.31	16.61	16.25	.12	.23	.15	.90	.76
24			.41	.62	.24	.41	15.53	.10	.22	.15	.89	.75
25			.40	.42	.21	.39	.06	.05	.21	.15	.88	.73
26			13.39	15.17	14.18	16.73	14.86	13.90	13.20	13.15	12.89	12.72
27			.42	14.91	.17	17.26	.83	.92	.15	.10	.87	.72
28			.52	.66	.21	16.87	.98	.89	.14	.08	.86	.70
29			.69	.44	.50	.39	.87	.82	.13	.06	.85	.70
30			.99	.47	15.40	.07	.78	.81	.12	.04		.70
31				.53	.93		.64		.11	.00		.71
Mean			13.46	14.47	14.45	16.24	15.69	14.59	13.37	13.13	12.89	12.76
Max.			13.99	15.67	15.93	17.26	17.08	16.28	13.75	13.19	12.93	12.83
Min.			13.01	13.80	14.10	15.25	14.64	13.81	13.11	13.00	12.85	12.70

WATER YEAR 1955 : Max. 17.26 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			62	245	267	678	566	294	154	82	54	45
2			62	276	289	699	539	273	149	81	54	43
3			62	262	273	635	535	252	145	80	54	42
4			83	234	264	568	511	242	139	79	54	42
5			118	202	259	507	482	299	136	79	52	41
6			128	190	245	467	460	427	135	79	52	40
7			126	190	230	454	509	407	131	77	52	40
8			121	186	220	425	542	312	125	77	52	43
9			128	186	208	561	568	269	124	77	52	45
10			121	182	223	725	662	264	110	77	52	43
11			118	175	227	783	753	363	108	77	52	43
12			113	175	230	799	706	465	108	77	52	41
13			112	189	239	727	657	542	107	77	52	40
14			110	186	244	717	599	665	107	77	51	41
15			111	170	259	712	616	495	100	77	51	41
16			119	161	316	670	563	396	99	77	51	41
17			117	173	320	640	561	339	98	77	51	41
18			118	217	290	609	476	310	96	77	50	38
19			128	289	273	575	436	280	95	77	50	38
20			142	429	298	537	500	254	93	77	50	38
21			138	507	287	575	756	235	89	77	50	38
22			126	502	262	810	871	222	87	77	48	39
23			114	518	244	751	657	211	86	77	51	39
24			107	507	232	699	487	208	85	77	50	38
25			106	462	227	693	384	197	84	77	49	38
26			106	407	222	783	343	176	83	77	50	36
27			108	353	220	930	337	179	78	72	48	36
28			121	305	227	821	367	174	76	70	47	34
29			145	266	276	693	345	164	75	68	46	34
30			190	271	458	614	327	162	74	65		34
31				281	573		301		73	61		35
Total			3,459	8,696	8,394	19,857	16,416	9,076	3,239	2,356	1,477	1,225
Mean			115	280	271	662	529	303	104	76.0	50.9	39.5
Max.			190	518	573	930	871	665	154	82	54	45
Min.			62	161	208	425	301	162	73	61	46	35
Runoff - mcm.			298.857	751.334	725.241	1,715.644	1,418.342	784.166	279.849	203.558	127.612	105.840

WATER YEAR 1955 : Max. 930 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	18.00	17.26	930				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MAE KLONG RIVER BASIN

Mae Klong River at Tha Muang, Kanchanaburi (K.4)

Location: Lat 13°- 57' - 38" N, Long 99°- 38' - 11" E, on left bank at Wat Si Loha Ratchabamrung, Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 26,441 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: +12.00 m. (M.S.L.)

Bench Mark:

Location: At foot of tamarind tree infront of Amphoe Tha Muang Office.
Elevation: +23.781 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 - 56, 1962 to date.

Rating Operation:

Period of Rating: 1943 - 47, 1962 to date.
Rated by Float: 1943 - 47.
Rated by Current Meter: 1962 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1943-47. Upstream state diversions for irrigation of about 2,960 hectares. No adjustment made for virgin flow.

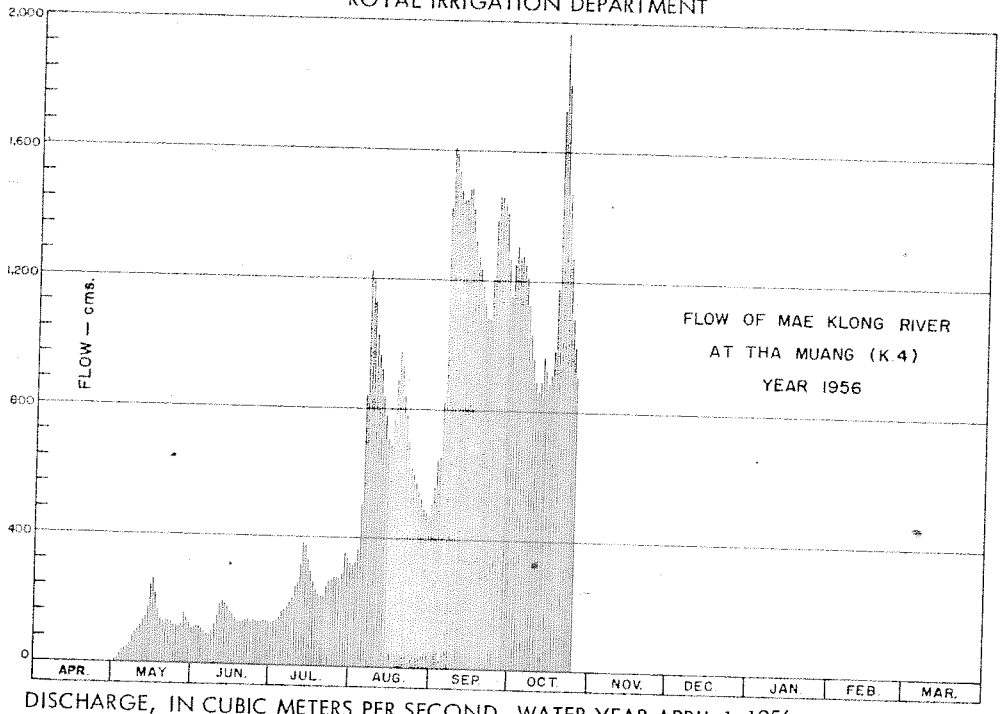
Remarks: No gage - height record Apr. 1 - 30, ending of gage - height record for Oct.25

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		12.25	13.46	13.59	14.70	15.88	18.45					
2		.34	.49	.63	.80	16.21	.35					
3		.50	.47	.71	.98	.22	.37					
4		.69	.40	.77	15.62	17.05	.36					
5		.79	.35	.85	16.89	18.79	.11					
6		12.86	13.30	13.89	18.19	19.32	17.72					
7		.95	.30	.93	.08	.27	.60					
8		13.18	.39	14.01	17.86	.07	.30					
9		.30	.52	.13	.53	18.92	.07					
10		.38	.77	.31	.37	.86	.01					
11		13.49	13.96	14.42	17.19	18.88	17.14					
12		.58	14.01	.64	16.91	.96	.37					
13		.67	13.98	15.05	.62	.98	.20					
14		.88	.91	.00	.40	.69	.09					
15		14.36	.79	14.77	.37	.41	.24					
16		14.42	13.74	14.58	16.65	18.33	17.61					
17		.06	.64	.42	17.18	.21	18.22					
18		13.75	.59	.28	17.41	18.04	19.75					
19		.62	.59	.18	.24	17.85	20.26					
20		.60	.60	.15	16.84	.74	19.62					
21		13.60	13.66	14.16	16.65	17.78	18.85					
22		.60	.68	.33	.21	18.24	.17					
23		.58	.61	.43	.12	.76	17.74					
24		.50	.64	.47	.02	.90	.40					
25		.48	.64	.49	15.86	.90	.10					
26		13.45	13.61	14.50	15.78	18.84						
27		.53	.61	.48	.66	.55						
28		.77	.64	.59	.52	18.20						
29		.67	.63	.91	.49	17.97						
30		.54	.61	.86	.47	18.29						
31		.44		.76	.67							
Mean		13.41	13.61	14.33	16.42	18.27						
Max.		14.42	14.01	15.05	18.19	19.32						
Min.		12.25	13.30	13.59	14.70	15.88						

WATER YEAR 1956 : Max. 19.32 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		6.00	113	131	312	568	1,304					
2		11	117	136	331	647	1,271					
3		20	114	148	367	650	1,278					
4		33	106	157	507	871	1,242					
5		41	100	168	826	1,419	1,194					
6		47	94	174	1,220	1,605	1,069					
7		56	94	181	1,185	1,587	1,032					
8		81	105	194	1,115	1,515	942					
9		94	121	213	1,011	1,463	877					
10		104	157	244	963	1,442	860					
11		117	186	262	910	1,449	896					
12		129	194	301	832	1,476	963					
13		142	189	381	753	1,483	913					
14		173	178	371	696	1,385	882					
15		252	160	325	688	1,291	925					
16		262	152	290	761	1,265	1,035					
17		202	138	262	907	1,226	1,229					
18		154	131	239	975	1,172	1,763					
19		135	131	222	925	1,111	1,964					
20		132	132	216	813	1,076	1,715					
21		132	140	218	761	1,089	1,439					
22		132	143	247	647	1,236	1,213					
23		129	133	264	626	1,408	1,076					
24		118	138	271	602	1,456	972					
25		116	138	274	563	1,456	885					
26		112	133	276	544	1,436						
27		122	133	273	516	1,337						
28		157	138	292	484	1,223						
29		142	136	353	478	1,149						
30		124	133	343	473	1,252						
31		111		323	518							
Total		3,586	4,077	7,749	22,309	37,743						
Mean		116	136	250	719	1,258						
Max.		262	194	381	1,220	1,605						
Min.		6.00	94	131	312	568						
Runoff — MCM.		309.830	352.252	669.513	1,927.497	3,260.995						

WATER YEAR 1956 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 6	06.00	19.32	1,605				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
MAE KLONG RIVER BASIN

Khwae 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, Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,~~0~~10 sq.km. 10001

Type of Gage: Staff gage.

Zero Gage at Bottom at: +53.487 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: At rain gage infront of camp of station K.6

Elevation: +72.819 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: Unstable, shifting adjustment is included for flow computation.

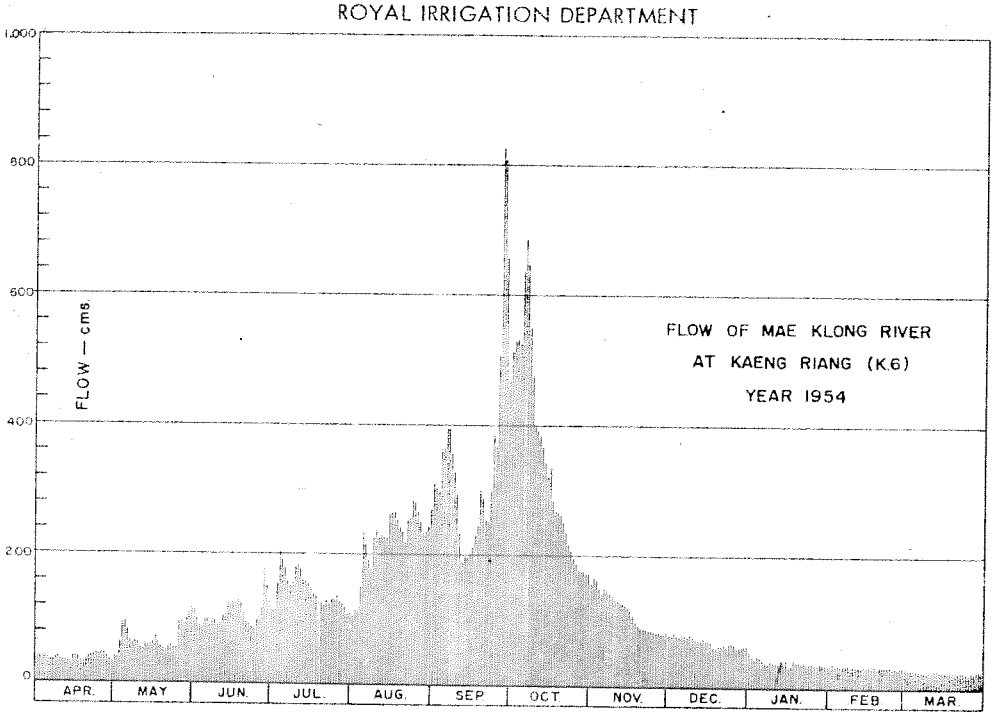
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.31	56.25	57.06	57.02	56.87	58.70	60.42	57.23	56.61	56.37	56.18	56.08
2	.31	.37	56.92	.06	.91	.87	.49	.20	.59	.36	.18	.07
3	.31	.52	.79	.37	.96	.84	.62	.15	.58	.35	.17	.06
4	.30	.83	.83	.69	57.25	.94	.58	.13	.58	.35	.16	.05
5	.28	.83	.96	.58	.91	59.14	61.47	.13	.58	.34	.16	.04
6	56.27	56.76	56.85	57.47	57.73	59.31	61.53	57.13	56.61	56.33	56.16	56.04
7	.27	.65	.78	.30	.55	.21	60.83	.10	.59	.32	.16	.03
8	.26	.52	.90	.20	.53	58.97	.25	.03	.57	.32	.15	.03
9	.25	.53	.86	.35	.89	.62	59.87	56.99	.55	.31	.14	.02
10	.24	.53	.79	.58	58.00	.34	.60	.96	.53	.30	.13	.01
11	56.23	56.47	56.86	57.65	58.01	58.12	59.55	56.93	56.52	56.30	56.13	56.01
12	.22	.46	57.01	.54	.14	57.99	.39	.92	.50	.29	.13	.02
13	.21	.50	.00	.36	.01	.92	.21	.89	.49	.28	.13	.01
14	.21	.47	.08	.34	57.94	.87	.01	.89	.49	.27	.13	.01
15	.20	.53	.17	.32	58.11	.95	58.84	.87	.48	.27	.13	.02
16	56.20	56.58	57.20	57.27	58.29	58.03	58.63	56.84	56.46	56.26	56.14	56.01
17	.20	.62	.06	.16	.28	.09	.45	.82	.45	.26	.14	.00
18	.19	.54	.13	.13	.11	.22	.31	.80	.44	.25	.14	.05
19	.19	.49	.07	.11	57.95	.56	.18	.78	.44	.25	.13	.05
20	.19	.49	56.92	.04	.92	.43	.05	.76	.43	.24	.14	.04
21	56.20	56.46	56.79	57.02	57.99	58.31	57.93	56.73	56.43	56.24	56.14	56.02
22	.21	.45	.75	.08	58.32	.38	.82	.71	.42	.24	.13	.02
23	.33	.49	.71	.04	.35	.71	.72	.71	.42	.23	.12	.01
24	.34	.50	.79	.17	.41	59.47	.64	.70	.41	.23	.10	.01
25	.33	.52	.83	.17	.32	.37	.57	.67	.40	.23	.09	.00
26	56.30	56.84	56.94	57.06	58.25	60.22	57.51	56.66	56.40	56.21	56.09	56.01
27	.28	.85	57.08	.00	.16	62.01	.45	.65	.40	.21	.08	.01
28	.24	.82	.59	56.99	57.90	61.33	.40	.65	.39	.20	.08	.04
29	.22	.89	.35	.94	.94	60.75	.35	.63	.38	.20		.15
30	.23	.99	.10	.86	53.07	59.99	.31	.63	.37	.20		.13
31		57.02		.85	.46		.27		.37	.19		.12
Mean	56.25	56.61	56.97	57.22	57.92	58.94	58.91	56.88	56.48	56.27	56.13	56.03
Max.	56.34	57.02	57.59	57.69	58.46	62.01	61.53	57.23	56.61	56.37	56.18	56.15
Min.	56.19	56.25	56.71	56.85	56.87	57.87	57.27	56.63	56.37	56.19	56.08	56.00

WATER YEAR 1954 : Max. 62.01 m. Min. 56.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41	40	115	112	105	310	514	153	76	44	33	28
2	41	41	96	116	114	300	529	165	77	45	34	27
3	41	71	86	161	114	297	531	160	82	42	32	27
4	43	95	89	204	146	361	522	144	78	48	33	27
5	38	95	100	184	233	364	634	142	75	42	31	25
6	35	80	99	175	204	394	682	150	78	40	33	25
7	35	61	85	153	182	392	623	146	78	36	33	24
8	37	61	100	152	178	345	513	141	75	36	33	24
9	41	66	97	158	224	319	454	137	80	40	30	23
10	35	62	88	180	238	282	397	127	75	38	32	24
11	34	55	96	186	243	214	390	130	73	38	30	24
12	33	54	108	175	252	188	376	127	69	35	32	27
13	32	62	109	155	243	198	355	125	69	40	29	27
14	32	58	119	158	248	197	332	121	73	38	32	23
15	41	62	124	153	262	204	312	120	69	42	30	24
16	41	64	126	147	269	216	334	112	69	38	32	23
17	41	72	126	137	264	236	255	105	66	36	34	23
18	33	57	128	137	251	246	268	97	60	42	31	25
19	35	56	122	133	238	299	265	92	57	36	28	24
20	36	54	104	121	234	282	260	89	65	38	32	25
21	42	51	94	122	219	246	244	88	62	37	31	22
22	42	57	92	130	254	255	231	86	64	37	31	25
23	45	59	85	123	257	293	213	83	60	34	31	22
24	46	56	84	132	283	383	204	85	65	37	31	21
25	45	58	98	132	272	366	193	81	65	34	28	21
26	49	96	104	136	262	539	183	81	63	34	30	22
27	45	95	122	126	244	824	176	80	57	34	28	22
28	37	94	178	123	228	683	176	80	59	36	29	25
29	35	101	138	117	237	588	176	79	60	34		25
30	34	112	130	106	246	467	171	82	61	34		24
31		118		109	273		172		61	32		23
Total	1,165	2,163	3,242	4,453	7,017	10,288	10,695	3,408	2,119	1,177	873	751
Mean	38.8	69.3	108	144	226	343	345	114	68.3	39	31.2	24.2
Max.	49	118	178	204	283	824	682	165	82	48	34	28
Min.	32	40	84	106	105	188	171	79	57	32	28	21
Runoff – mcm.	100.656	186.883	280.109	384.739	606.269	888.883	924.048	294.451	183.081	101.893	75.427	64.886

WATER YEAR 1954 : Max. 824 Min. 21 Mean 130 Annual Runoff 4,088.275 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 27	09.00	62.24	869				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
MAE KLONG RIVER BASIN

Khwae 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, Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,210 sq.km. 10009

Type of Gage: Staff gage.

Zero Gage at Bottom at: +55.487 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. No.2

Location: At rain gage infront of camp of station K.6
Elevation: +72.819 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 included for flow computation.

Overbank Flow Conditions: No overbank flow.

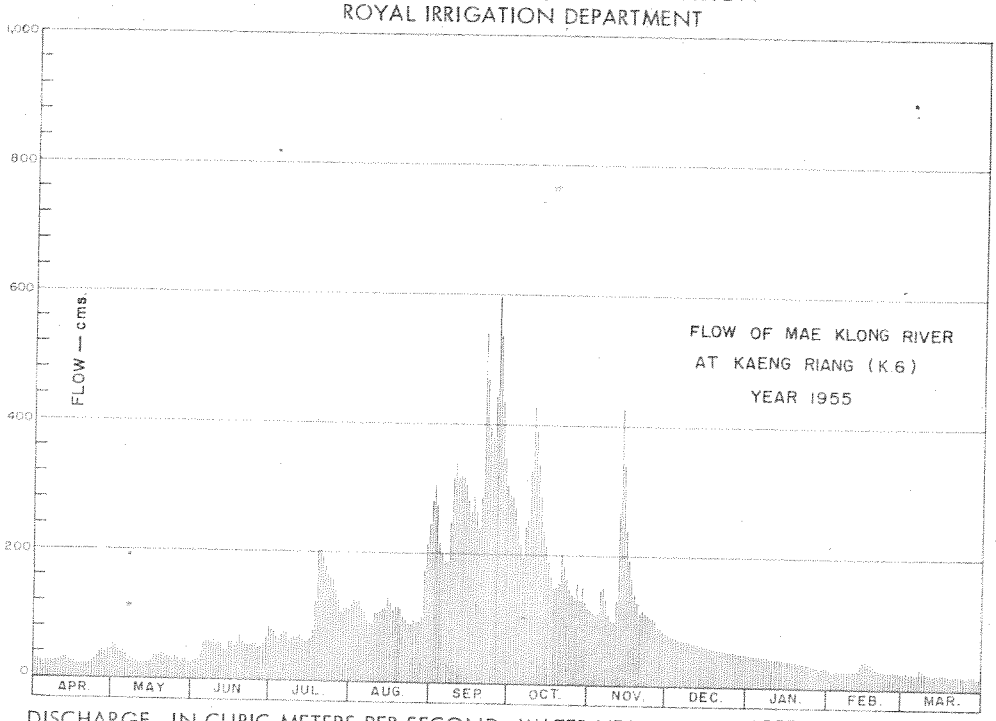
General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1955. No upstream state diversion for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1955 TO MARCH 31,1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.07	56.39	56.13	56.77	57.18	58.80	58.89	57.17	56.71	56.35	56.13	56.03
2	.05	.27	.18	.67	.25	.95	.89	.07	.69	.34	.12	.05
3	.03	.21	.27	.59	.21	.57	.70	.02	.67	.33	.11	.04
4	.01	.16	.33	.56	.23	.09	.34	.07	.64	.33	.11	.03
5	.00	.15	.45	.60	.06	57.95	.28	.50	.62	.32	.10	.02
6	56.00	56.13	56.44	56.63	57.06	57.87	58.14	57.57	56.62	56.31	56.12	56.02
7	.01	.12	.43	.59	56.89	.87	.54	.27	.61	.31	.14	.13
8	.01	.13	.46	.60	.86	58.57	.70	.09	.60	.30	.13	.12
9	.02	.09	.46	.57	.87	59.29	59.24	.03	.58	.29	.12	.03
10	.04	.08	.48	.52	57.05	.25	.92	.03	.56	.29	.10	.01
11	56.09	56.07	56.47	56.54	57.05	59.01	59.42	57.46	56.54	56.28	56.12	56.01
12	.18	.06	.43	.58	.06	.10	.04	58.63	.53	.27	.17	.00
13	.11	.04	.40	.54	.11	.05	58.67	60.08	.53	.27	.19	55.99
14	.01	.04	.45	.51	.11	58.91	.35	58.76	.52	.28	.21	56.00
15	.01	.05	.49	.50	.31	.62	.08	.08	.51	.26	.25	.02
16	56.00	56.18	56.43	56.59	57.20	58.61	57.88	57.73	56.49	56.25	56.23	56.03
17	55.97	.21	.43	.74	.07	.82	.72	.51	.48	.24	.18	.00
18	.96	.21	.59	57.27	.14	.57	.59	.56	.47	.24	.16	55.97
19	.96	.27	.62	.95	.15	.38	.64	.26	.46	.23	.15	.96
20	.97	.26	.51	.96	.07	.94	.79	.17	.45	.23	.14	.97
21	55.97	56.26	56.54	57.73	56.94	60.83	58.04	57.10	56.44	56.22	56.10	55.97
22	.99	.25	.47	.70	.92	59.83	57.85	.05	.43	.21	.12	.95
23	56.04	.22	.45	.76	.85	.70	.59	.05	.42	.20	.11	.94
24	.08	.22	.48	.68	.85	.59	.45	.00	.42	.20	.10	.93
25	.19	.27	.47	.42	.91	60.03	.35	56.92	.41	.19	.12	.94
26	56.26	56.27	56.44	57.25	56.89	61.27	57.36	56.87	56.40	56.18	56.11	55.93
27	.29	.22	.44	.07	.91	60.45	.52	.83	.39	.17	.08	.92
28	.25	.18	.50	56.95	.99	59.67	.50	.80	.38	.17	.07	.91
29	.30	.13	.57	57.05	57.64	.16	.54	.77	.37	.16	.05	.90
30	.33	.08	.71	56.98	58.11	58.94	.34	.74	.36	.15		.90
31		.10		.96	.42		.21		.36	.14		.89
Mean	56.07	56.17	56.45	56.96	57.14	59.07	57.83	57.40	56.51	56.25	56.15	55.99
Max.	56.33	56.39	56.71	57.96	58.42	61.27	59.92	60.08	56.71	56.35	56.25	56.13
Min.	55.96	56.04	56.13	56.50	56.85	57.87	57.21	56.74	56.36	56.14	56.05	55.89

WATER YEAR 1955 : Max. 61.27 m. Min. 55.89 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	29	52	28	79	119	285	288	115	77	49	26	23
2	28	50	29	76	125	302	287	109	75	48	23	25
3	26	42	30	66	122	278	265	107	73	47	26	23
4	25	40	40	65	124	208	234	114	71	47	26	23
5	25	45	57	72	108	194	212	147	69	46	25	22
6	25	36	58	76	108	186	196	149	69	45	26	23
7	25	28	57	73	93	186	244	121	69	45	26	31
8	25	32	59	62	90	238	252	104	68	44	25	25
9	26	29	62	65	91	318	332	97	66	43	24	24
10	27	25	55	66	102	337	456	97	65	43	26	22
11	30	24	60	65	107	308	360	135	63	42	29	22
12	32	27	53	71	108	319	312	255	62	41	27	20
13	31	25	45	62	113	313	269	426	62	41	56	21
14	25	25	47	60	113	297	231	267	61	40	40	23
15	25	25	61	63	131	265	201	201	60	40	41	23
16	25	28	56	65	121	264	179	174	59	59	39	23
17	23	36	55	79	109	287	161	153	58	58	36	22
18	22	56	59	121	115	260	146	151	57	38	32	20
19	22	59	69	200	116	239	149	124	57	58	29	19
20	23	58	57	203	109	300	160	110	56	38	28	20
21	23	36	54	186	97	558	199	115	55	36	26	20
22	24	34	53	176	96	408	169	109	54	56	26	20
23	27	33	54	161	89	392	159	106	53	35	26	20
24	29	32	57	159	89	378	144	102	53	53	25	19
25	37	34	57	154	95	434	136	102	53	31	26	20
26	42	32	51	134	95	597	134	98	52	53	26	20
27	44	29	52	120	95	489	154	88	51	33	25	20
28	41	30	57	107	102	388	147	86	50	28	25	17
29	45	31	65	115	163	326	151	81	50	33	22	20
30	47	26	82	113	210	300	135	80	49	32		18
31		27		112	243		117		49	30		19
Total	878	1,024	1,620	3,226	3,601	9,594	6,548	4,103	1,866	1,212	817	667
Mean	29.3	33.0	54.0	104	116	320	211	137	60.2	39.1	28.2	21.5
Max.	47	52	82	203	243	597	425	426	77	49	41	31
Min.	22	24	28	60	89	186	117	80	49	28	22	17
Runoff - mcm.	75.859	88.474	139.962	278.726	311.126	828.902	565.747	354.499	161.262	104.717	70.589	57.629

WATER YEAR 1955 : Max. 597 Min. 17 Mean 96.0 Annual Runoff 3,037.478 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.26	12.00	61.48	629				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
MAE KLONG RIVER BASIN

Khwae 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, Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,010 sq.km. 10001

Type of Gage: Staff gage.

Zero Gage at Bottom at: +53.487 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No.2

Location: At rain gage infront of camp of station K.6
Elevation: +72.819 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: Unstable, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

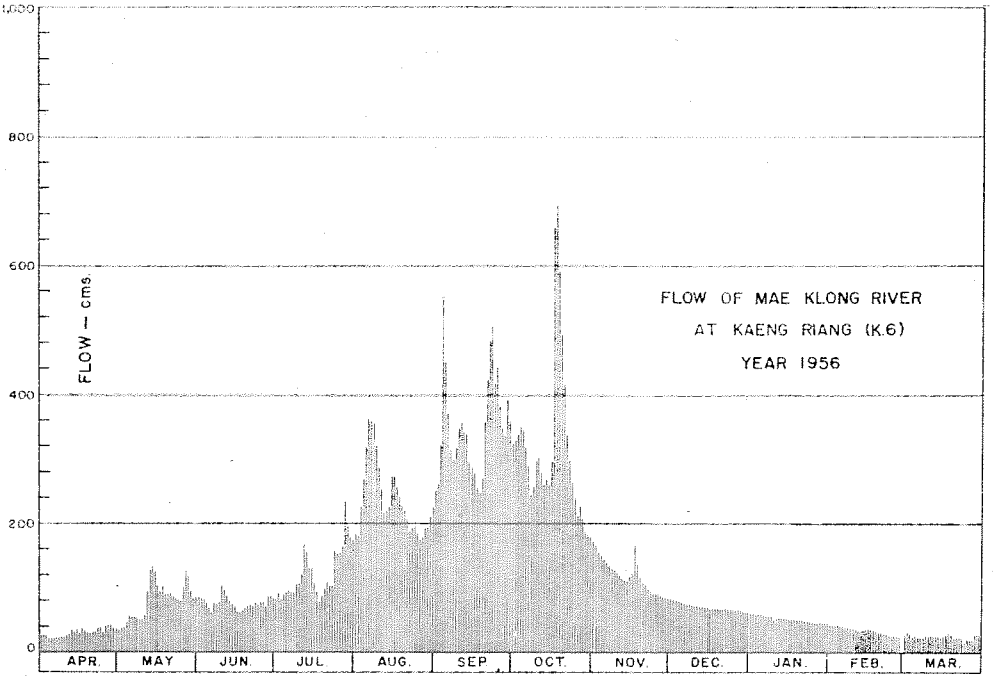
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.03	56.18	56.85	56.75	57.82	59.11	60.01	57.84	56.79	56.45	56.16	56.03
2	55.94	.21	.79	.77	.99	.31	.05	.76	.78	.44	.15	.03
3	.93	.25	.68	.72	58.63	60.03	.17	.63	.76	.43	.14	.02
4	.92	.29	.63	.73	59.23	61.75	.24	.60	.74	.43	.13	.02
5	.91	.39	.57	.82	.86	.08	.17	.50	.72	.42	.12	.02
6	55.94	56.44	56.55	56.85	60.28	60.34	59.74	57.44	56.70	56.41	56.11	56.01
7	.97	.40	.64	.82	.28	59.81	.47	.39	.69	.40	.10	.00
8	.95	.32	.63	.93	.28	.72	.01	.36	.67	.39	.09	55.99
9	.95	.31	.65	57.04	59.85	.94	58.88	.32	.66	.38	.08	.98
10	56.01	.29	.79	.07	.47	60.30	59.25	.28	.65	.37	.07	56.03
11	56.04	56.32	56.75	57.27	59.27	60.41	59.66	57.24	56.64	56.36	56.06	56.01
12	.09	.74	.74	.68	58.86	.24	.29	.18	.63	.35	.05	.01
13	.12	57.04	.70	.39	.66	59.84	.13	.14	.63	.34	.08	.01
14	.09	.30	.62	.13	59.00	.70	.12	.15	.61	.33	.11	.00
15	.17	.23	.56	.00	.40	.71	.02	.26	.60	.33	.13	55.98
16	56.05	56.93	56.53	56.90	59.57	59.55	59.47	57.31	56.59	56.31	56.16	56.02
17	.12	.86	.52	.83	.47	.26	62.26	.65	.59	.31	.15	.04
18	.08	57.01	.58	.83	.13	.21	63.29	.48	.58	.29	.14	.06
19	.09	56.80	.60	.93	58.79	.42	62.35	.28	.57	.29	.11	.02
20	.13	.80	.60	57.05	.65	.98	61.67	.18	.57	.28	.10	.00
21	56.22	56.81	56.61	57.10	58.34	60.00	60.18	57.12	56.56	56.27	56.08	55.99
22	.26	.81	.63	.16	.24	61.29	59.62	.03	.55	.26	.07	.98
23	.19	.67	.63	.36	.24	.61	.22	56.97	.54	.25	.07	.96
24	.23	.64	.59	.49	.35	.20	58.95	.91	.53	.24	.05	.95
25	.28	.67	.63	.49	.14	.08	.67	.92	.52	.23	.05	.94
26	56.35	56.89	56.64	56.39	58.12	60.61	58.44	56.89	56.51	56.21	56.04	55.93
27	.34	57.37	.71	.81	.00	.02	.26	.86	.50	.21	.04	.93
28	.32	.23	.72	58.17	.09	59.88	.08	.84	.50	.19	.03	56.06
29	.25	56.91	.79	57.92	.21	60.50	.93	.83	.49	.19		.00
30	.21	.82	.68	.70	.39	.47	57.97	.81	.47	.18		.02
31		.84		.83	.60		.90		.46	.17		.03
Mean	56.12	56.70	56.65	57.26	58.88	60.21	59.60	57.24	56.65	56.31	56.10	56.00
Max.	56.35	57.37	56.85	58.17	60.28	61.75	63.29	57.84	56.79	56.45	56.16	56.06
Min.	55.91	56.18	56.52	56.39	57.82	59.11	57.90	56.81	56.46	56.17	56.03	55.93

WATER YEAR 1956 : Max. 63.29 m. Min. 55.91 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	34	86	83	183	252	322	171	82	60	43	27
2	26	37	83	92	180	263	328	164	81	60	43	31
3	27	38	81	81	223	305	341	154	80	59	42	27
4	20	41	76	89	270	550	350	151	79	59	42	26
5	20	54	67	94	322	423	343	143	77	58	41	26
6	21	55	62	96	360	360	304	137	76	57	40	24
7	22	54	75	91	355	306	282	132	75	57	39	23
8	22	54	74	93	358	298	243	129	74	56	38	24
9	21	50	77	101	310	314	258	126	73	56	37	25
10	22	52	104	107	276	346	299	123	73	50	36	24
11	25	58	96	122	255	356	301	119	72	54	35	24
12	26	91	86	168	213	339	274	114	71	54	33	24
13	34	127	79	155	220	358	259	111	71	53	34	26
14	31	133	74	129	226	286	268	111	70	52	36	24
15	36	125	70	131	273	286	259	118	70	52	36	24
16	28	101	62	96	270	279	300	121	69	51	37	26
17	36	94	61	94	257	247	615	145	69	51	36	28
18	31	103	64	78	237	247	692	130	68	51	35	30
19	29	90	69	87	224	270	549	115	68	50	33	26
20	28	90	73	102	219	350	473	107	68	50	31	23
21	31	91	74	110	198	429	355	104	67	49	30	23
22	32	91	71	101	188	485	307	98	67	49	29	23
23	38	82	77	104	193	504	295	94	66	48	28	23
24	39	81	73	159	195	413	252	90	65	48	26	15
25	31	79	77	152	180	441	238	91	65	47	25	19
26	41	93	80	153	175	362	212	89	64	47	26	19
27	41	127	69	186	180	333	227	87	64	46	25	19
28	41	117	86	231	194	338	194	86	64	46	24	28
29	38	94	88	185	194	391	186	85	63	45		28
30	36	85	81	178	209	351	183	83	62	45		27
31		85		174	222		177		61	44		24
Total	898	2,504	2,295	3,820	7,363	10,460	9,686	3,528	2,174	1,604	960	760
Mean	29.9	80.8	76.5	123	238	349	312	118	70.1	51.7	34.2	24.5
Max.	41	133	104	231	360	550	692	171	82	60	43	31
Min.	20	34	61	81	175	247	177	83	61	44	24	15
Runoff — mcm.	77.587	216.346	198.288	330.048	636.163	903.744	836.870	304.819	187.834	138.586	82.944	65.664

WATER YEAR 1956 : Max. 692 Min. 15 Mean 125 Annual Runoff 3,978.893 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	06.00	63.99	855				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
PHET RIVER BASIN

Phet River at Ban Song Phi Nong, Phetchaburi (B.3)

Location: Lat 12°- 52' - 04" N, Long 99°- 40' - 40" E, on left bank at Ban Song Phi Nong, 10 kilometers downstream from Kaeng Kra Chan Damsite, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,244 sq.km.

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 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: 1950 - 52, 1954 to date.

Rating Operation:

Period of Rating: 1954 - 59
Rated by Float: -
Rated by Current Meter: 1954 - 59

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage - discharge relation used is defined by discharge measurements made during 1954. No upstream state diversions for irrigation.

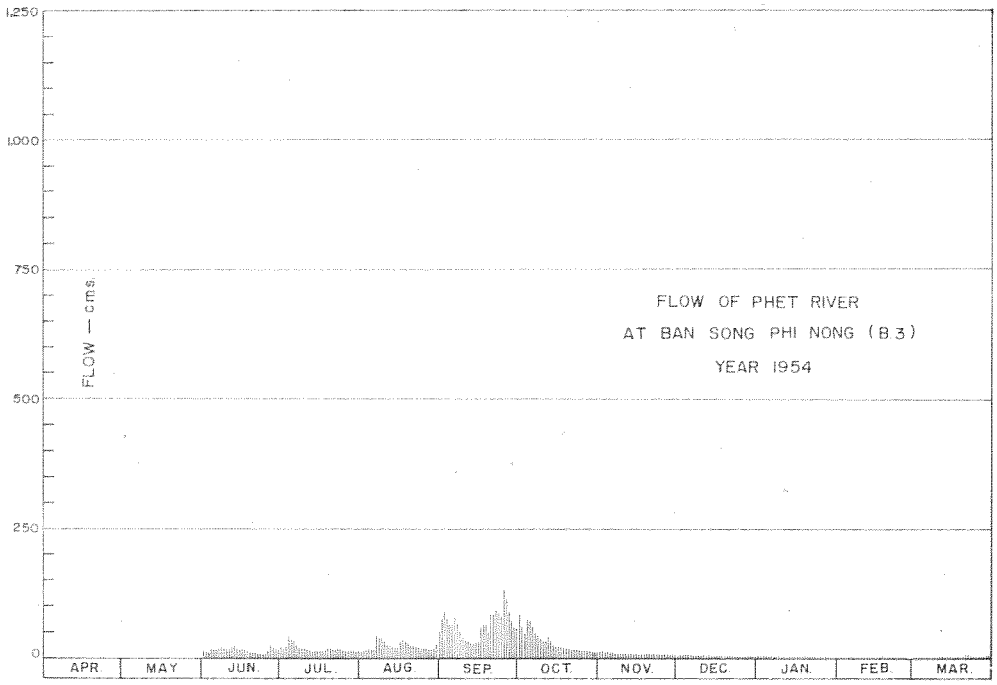
Remarks: Stream gaging began on Jun.1,1954.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			42.02	42.16	42.05	42.93	42.91	42.05	41.83	41.75	41.69	41.65
2			41.99	.11	.04	43.06	.69	.01	.83	.75	.69	.65
3			.94	.27	.10	42.94	.63	.00	.83	.74	.68	.64
4			42.09	.51	.12	.84	.94	41.99	.85	.74	.68	.64
5			.07	.39	.08	.83	.85	.98	.86	.74	.68	.63
6			42.10	42.34	42.11	42.93	42.70	41.97	41.84	41.74	41.68	41.63
7			.13	.25	.53	.77	.60	.96	.83	.74	.68	.63
8			.21	.18	.48	.61	.52	.95	.83	.73	.67	.63
9			.14	.13	.42	.50	.45	.95	.82	.73	.67	.63
10			.06	.13	.31	.42	.39	.94	.82	.72	.67	.63
11			42.12	42.09	42.24	42.39	42.39	41.93	41.81	41.72	41.67	41.63
12			.22	.05	.22	.33	.51	.93	.81	.71	.67	.66
13			.21	.04	.17	.33	.38	.93	.80	.71	.68	.69
14			.12	.05	.16	.35	.31	.92	.80	.71	.68	.66
15			.09	.06	.16	.47	.26	.91	.79	.71	.68	.65
16			42.13	42.01	42.35	42.72	42.23	41.91	41.79	41.71	41.68	41.65
17			.08	.03	.42	.78	.21	.90	.78	.71	.67	.66
18			.02	.11	.35	.76	.20	.90	.78	.71	.68	.63
19			41.97	.12	.29	.65	.20	.89	.77	.71	.68	.70
20			.94	.17	.25	.96	.16	.88	.77	.70	.67	.71
21			41.92	42.09	42.23	42.95	42.14	41.88	41.77	41.70	41.67	41.82
22			.89	.11	.21	43.01	.12	.87	.77	.70	.66	.77
23			.87	.16	.18	.00	.10	.87	.77	.70*	.66	.72
24			.88	.10	.15	42.96	.09	.86	.77	.70	.65	.70
25			.89	.08	.14	43.46	.08	.86	.77	.69	.65	.69
26			42.11	42.05	42.14	43.18	42.07	41.85	41.76	41.69	41.65	41.77
27			.24	.02	.12	42.95	.05	.85	.76	.69	.65	.75
28			.17	.02	.11	.82	.05	.84	.76	.69	.65	.73
29			.13	.02	.16	.71	.04	.84	.76	.69		.70
30			.11	.00	.29	.80	.03	.84	.75	.69		.85
31				.00	.54		.05		.75	.69		.80
Mean			42.06	42.12	42.23	42.78	42.33	41.91	41.79	41.71	41.67	41.69
Max.			42.24	42.51	42.54	43.46	42.91	41.05	41.86	41.75	41.69	41.85
Min.			41.87	42.00	42.04	42.33	42.03	41.84	41.75	41.69	41.65	41.63

WATER YEAR 1954 : Max. 43.46 m. Min. m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			13	20	13	76	79	14	4.90	3.60	2.20	1.90
2			11	17	13	89	56	12	5.20	4.10	2.20	1.90
3			10	25	16	77	46	11	5.20	3.60	2.20	1.90
4			16	42	16	64	75	11	6.20	3.40	2.20	1.70
5			15	33	15	66	71	11	6.20	3.60	2.20	1.90
6			16	31	16	80	57	10	5.80	3.60	2.20	1.70
7			18	24	43	62	42	9.70	5.50	3.40	2.20	1.70
8			22	19	39	47	43	9.70	5.20	3.60	2.20	1.70
9			17	18	38	40	36	8.90	5.50	3.40	2.20	1.70
10			15	18	29	34	33	9.30	4.90	2.90	2.20	1.70
11			17	15	24	31	33	8.90	5.20	2.90	2.20	1.70
12			23	14	24	29	40	8.50	4.60	2.60	2.20	2.20
13			23	13	20	29	33	8.50	5.20	2.40	2.20	2.90
14			16	14	19	30	25	10	4.60	2.40	2.20	2.40
15			15	14	19	30	24	10	4.60	2.60	2.20	2.00
16			17	13	31	59	24	7.80	4.90	2.90	2.20	2.20
17			15	13	35	63	22	7.40	4.10	2.60	2.20	2.00
18			12	16	31	64	20	7.80	4.60	2.60	2.20	2.00
19			10	19	27	50	20	7.80	4.30	2.60	2.20	3.10
20			8.90	19	25	85	18	7.10	3.80	2.90	2.20	3.10
21			8.10	16	22	86	16	7.40	4.30	2.90	2.20	5.80
22			7.10	16	22	93	16	6.80	4.30	2.60	2.20	4.60
23			7.80	19	20	89	16	6.20	4.30	2.60	2.00	3.80
24			6.20	17	19	78	15	6.50	4.30	2.60	2.00	3.10
25			7.40	15	18	133	15	5.80	4.10	2.60	2.00	2.90
26			16	13	18	115	13	6.20	3.80	2.40	2.00	4.60
27			23	12	17	83	13	6.20	4.10	2.40	2.00	4.10
28			19	13	16	66	13	5.80	3.80	2.40	2.00	3.60
29			17	13	19	58	13	5.80	4.10	2.40		3.10
30			15	12	27	64	13	5.20	3.60	2.40		6.50
31				12	45		13		3.60	2.20		6.20
Total			436.50	555	734	1,970	953	252.50	144.80	89.20	60.40	89.70
Mean			14.5	17.9	23.7	65.7	30.7	8.41	4.67	2.88	2.16	2.89
Max.			23	42	45	133	79	14	6.20	4.10	2.20	6.50
Min.			6.20	12	13	29	13	5.20	3.60	2.20	2.00	1.70
Runoff - mcm.			37.714	47.952	63.418	170.208	82.359	21.799	12.511	7.707	5.218	7.750

WATER YEAR 1954 : Max. 133 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 25	10.50	43.52	154				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
PHET RIVER BASIN

Phet River at Ban Song Phi Nong, Phetchaburi (B.5)

Location: Lat 12°- 52' - 04" N, Long 99°- 40' - 40" E, on left bank at Ban Song Phi Nong, 10 kilometers downstream from Kang Kra Chan Damsite, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,244 sq.km.

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 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: Unstable, shifting adjustment and mean hourly discharge are included for flow computation.

Overbank Flow Conditions: No overbank flow.

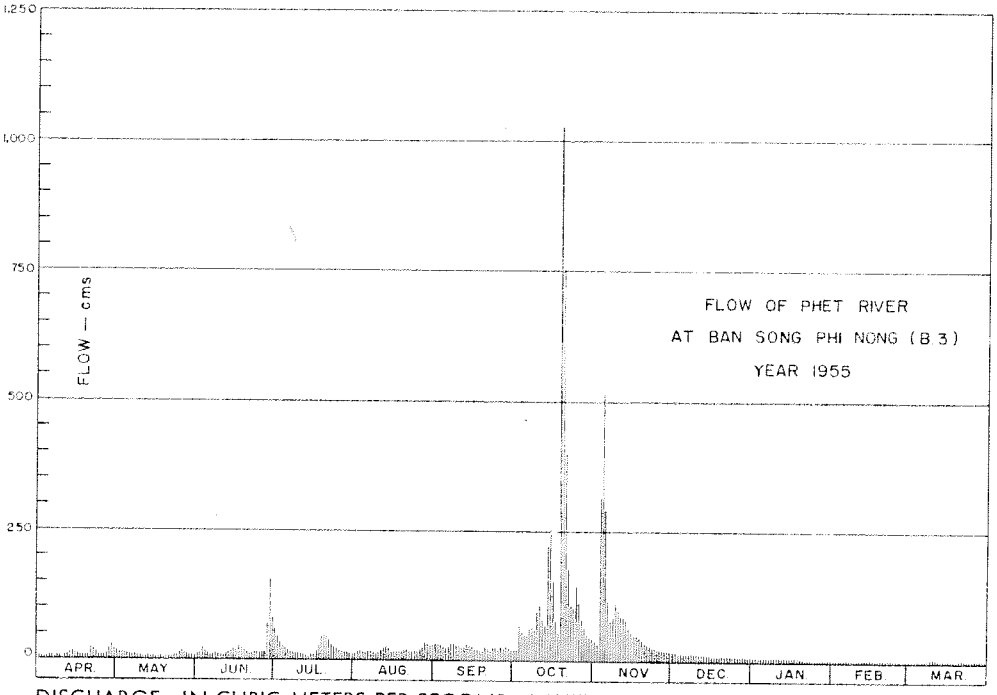
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41.76	42.09	41.99	42.77	42.06	42.36	42.16	42.53	42.22	42.01	41.90	41.85
2	.70	41.98	42.01	.52	.09	.35	.18	.48	.21	.01	.90	.85
3	.68	42.03	.25	.36	.12	.32	.84	43.20	.19	.00	.90	.86
4	.72	.00	.10	.25	.10	.28	.67	45.18	.18	.01	.89	.88
5	.65	41.97	41.97	.22	.07	.24	.52	43.72	.17	.01	.89	.87
6	41.84	41.92	41.94	42.16	42.09	42.33	42.57	43.15	42.17	42.00	41.89	41.86
7	.77	.87	.97	.11	.12	.40	.75	42.88	.16	.00	.89	.85
8	.81	.95	42.01	.07	.06	.37	.79	.91	.15	41.99	.89	.89
9	.80	.90	41.97	.06	.05	.32	.73	43.21	.14	.98	.91	42.00
10	.80	.84	.93	.03	.06	.32	42.05	.07	.14	.98	.91	41.99
11	41.84	41.79	41.92	42.00	42.16	42.28	43.19	43.00	42.13	41.97	41.89	41.98
12	.89	.77	42.02	41.97	.26	.28	42.88	.01	.12	.96	.88	42.07
13	.99	.89	.05	.95	.27	.34	.83	42.95	.12	.96	.88	41.97
14	42.05	.81	.10	.94	.24	.30	43.96	.79	.11	.96	.89	.93
15	41.96	.81	.18	.99	.08	.29	.98	.68	.10	.96	.88	.92
16	41.94	41.79	42.12	42.00	42.16	42.18	43.27	42.63	42.09	41.95	41.88	41.91
17	.84	.79	.26	.10	.11	.16	42.86	.63	.09	.95	.87	.90
18	.86	.78	.23	.34	.11	.12	.64	.55	.08	.94	.86	.92
19	.81	.76	.12	.52	.12	.15	46.38	.54	.07	.94	.86	.91
20	.87	.77	.03	.58	.19	.24	45.59	.48	.07	.94	.86	.95
21	42.14	41.79	41.98	42.57	42.16	42.21	44.08	42.45	42.07	41.94	41.87	41.92
22	.16	.86	.96	.44	.10	.15	43.42	.41	.07	.93	.89	.88
23	41.95	.87	42.04	.33	.07	.27	.11	.37	.07	.93	.89	.86
24	.87	.85	.07	.25	.09	.24	.18	.34	.06	.93	.91	.85
25	.92	42.01	.03	.19	.08	.21	.40	.32	.06	.92	.89	.84
26	41.87	42.05	42.06	42.14	42.19	42.27	43.07	42.30	42.05	41.92	41.87	41.84
27	.93	41.99	.05	.10	.26	.23	42.90	.26	.04	.92	.88	.83
28	42.17	.91	.63	.09	.40	.26	.78	.27	.03	.92	.87	.83
29	.27	.89	43.47	.10	.33	.22	.69	.25	.03	.91	.87	.82
30	.12	.91	42.66	.04	.32	.18	.61	.24	.02	.91		.82
31		.91		.02	.37		.60		.02	.90		.84
Mean	41.90	41.89	42.17	42.20	42.16	42.26	43.15	42.76	42.10	41.96	41.88	41.89
Max.	42.27	42.09	43.47	42.77	42.40	42.40	46.38	45.18	42.22	42.01	41.91	42.00
Min.	41.68	41.76	41.93	41.94	42.05	42.12	42.16	42.24	42.02	41.90	41.86	41.82

WATER YEAR 1955 : Max. 46.38 m. Min. 41.52 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.35	18	13	61	15	32	20	36	18	6.80	3.55	1.25
2	3.12	13	14	45	16	51	21	33	16	6.80	3.55	1.25
3	2.70	15	24	31	18	29	69	159	14	6.40	3.30	1.60
4	3.60	15	17	25	16	27	96	511	15	6.80	3.85	3.05
5	6.70	12	12	24	15	24	43	172	14	6.80	3.85	2.37
6	7.00	10	9.80	19	16	29	50	105	14	6.40	3.85	1.60
7	4.90	8.40	11	17	18	34	62	73	13	6.40	3.30	1.40
8	6.10	11	14	15	15	32	65	76	13	6.00	3.55	2.60
9	5.80	9.10	11	15	14	29	61	110	13	5.70	3.55	6.80
10	5.50	7.00	9.50	14	15	29	95	95	13	5.70	3.55	6.40
11	8.40	5.80	9.80	12	20	25	109	85	12	5.70	2.80	5.70
12	9.50	5.20	14	11	25	26	70	85	11	5.40	2.60	10
13	14	9.50	16	9.80	26	31	70	76	11	5.40	2.37	5.40
14	16	6.40	18	9.50	23	28	*219	60	11	5.70	2.80	3.85
15	11	6.40	21	12	15	27	*254	55	10	5.40	2.60	3.30
16	11	5.50	19	12	19	21	123	48	9.60	5.00	2.60	3.05
17	6.70	5.50	28	16	17	20	72	48	9.60	4.70	2.37	3.05
18	7.70	5.20	24	32	17	18	52	41	8.70	4.70	2.15	3.30
19	6.40	4.65	19	43	18	19	*1,026	38	9.10	4.40	2.15	2.60
20	7.70	5.20	14	47	22	26	*621	32	9.10	4.40	2.15	4.70
21	25	6.10	13	46	21	25	245	31	9.10	4.40	2.37	3.30
22	21	7.30	12	37	17	19	136	29	9.10	4.10	3.05	2.60
23	11	8.00	15	30	16	26	97	26	9.10	4.10	3.05	1.95
24	7.70	7.50	16	24	17	25	102	24	8.70	4.10	3.55	1.25
25	9.10	15	14	21	16	21	141	23	8.70	4.10	2.15	1.25
26	7.70	16	15	19	21	27	97	21	8.30	4.40	1.75	1.25
27	11	13	15	17	25	23	73	19	7.20	4.10	1.95	1.00
28	22	10	54	17	35	26	58	20	7.20	4.10	1.60	1.00
29	27	8.70	155	16	31	24	50	17	6.80	3.85	1.75	1.00
30	20	9.80	54	14	30	21	43	18	6.40	3.85		1.00
31		9.10		14	32		42		6.00	3.55		1.00
Total	307.67	285.15	681.10	723.30	621	772	4,240	2,162	333.94	153.25	81.71	89.87
Mean	10.2	9.23	22.7	23.3	20.0	25.7	137	72.1	10.8	4.94	2.82	2.90
Max.	27	18	155	61	35	34	1,026	511	18	6.80	3.85	10
Min.	2.70	4.65	9.50	9.50	14	18	20	17	6.00	3.55	1.60	1.00
Runoff — mcm.	26.582	24.723	58.847	62.495	53.654	66.701	366.366	186.797	28.852	13.241	7.060	7.765

WATER YEAR 1955 : Max 1,026 Min. 1.00 Mean 28.5 Annual Runoff 903.052 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	15.00	49.42	1,250				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
PHET RIVER BASIN

Phet River at Ban Song Phi Nong, Phetchaburi (B.3)

Location: Lat 12°- 52' - 04" N, Long 99°- 40' - 40" E, on left bank at Ban Song Phi Nong, 10 kilometers downstream from Kaeng Krachan Damsite, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,244 sq.km.

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 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: Unstable, shifting adjustment is included for flow computation.

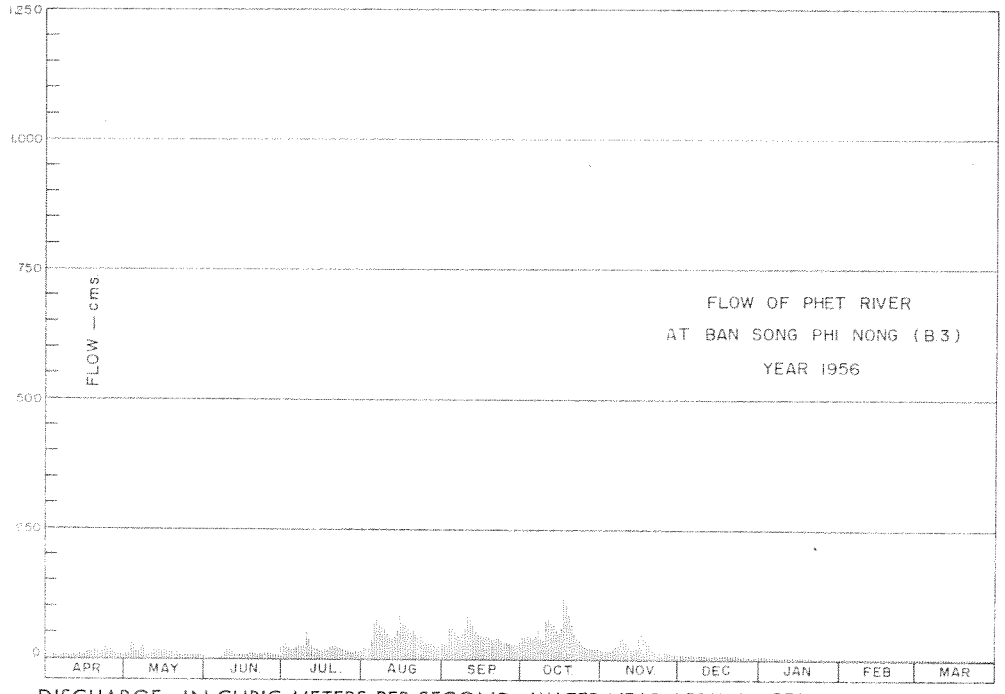
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41.94	42.11	41.98	42.40	42.35	42.53	42.70	42.31	42.15	42.01	41.93	41.89
2	42.03	.15	.98	.48	.43	.57	.63	.28	.14	.01	.93	.89
3	.14	.47	.98	.38	.41	.93	.69	.26	.14	.01	.93	.89
4	.03	.50	.98	.34	.57	.91	.65	.25	.13	.00	.93	.88
5	41.97	.28	.97	.34	43.01	.82	.55	.33	.13	.00	.92	.89
6	42.03	42.16	41.98	42.39	43.06	42.72	42.59	42.41	42.12	42.00	41.92	41.89
7	.06	.09	42.04	.45	42.90	.70	.84	.49	.11	41.99	.91	.88
8	.04	.06	.24	.38	.87	.71	.63	.80	.10	.99	.91	.87
9	.01	.04	.29	.40	.80	.85	.59	.63	.10	.99	.91	.87
10	41.99	.09	.36	.74	.75	43.12	43.03	.48	.10	.98	.91	.86
11	42.07	42.18	42.22	42.60	42.66	43.04	43.05	42.39	42.09	41.98	41.91	41.99
12	.00	.25	.14	.48	.62	42.88	42.92	.34	.08	.98	.91	.94
13	.11	.37	.10	.41	.65	.77	.93	.30	.08	.97	.91	.93
14	.09	.31	.11	.37	.86	.70	.77	.31	.08	.97	.92	.96
15	.10	.24	.07	.32	43.14	.67	.77	.59	.07	.97	.92	.92
16	42.20	42.26	42.12	42.28	43.05	42.66	42.90	42.77	42.07	41.97	41.91	41.94
17	.18	.29	.13	.36	42.95	.67	43.32	.75	.06	.97	.91	.87
18	.23	.21	.17	.33	.85	.64	.23	.58	.06	.96	.92	.93
19	.24	.15	.14	.39	.76	.58	.08	.46	.05	.96	.98	.92
20	.23	.13	.16	.46	.80	.57	42.88	.37	.05	.96	42.02	.91
21	42.17	42.14	42.11	42.46	42.77	42.65	42.73	42.32	42.05	41.95	41.98	41.89
22	.26	.12	.14	.39	.72	.61	.61	.29	.05	.95	.94	.88
23	.38	.11	.14	.35	.66	.54	.53	.26	.04	.95	.91	.87
24	.32	.14	.16	.34	.59	.52	.47	.24	.04	.94	.91	.87
25	.38	.12	.20	.33	.54	.53	.43	.22	.03	.94	.90	.86
26	42.21	42.09	42.18	42.26	42.52	42.48	42.39	42.21	42.03	41.94	41.90	41.86
27	.12	.08	.13	.25	.50	.45	.37	.19	.02	.94	.89	.86
28	.13	.05	.09	.22	.48	.49	.36	.17	.02	.94	.89	.86
29	.12	.03	.10	.26	.48	.45	.36	.17	.01	.93		.87
30	.07	.02	.36	.28	.55	.56	.34	.16	.01	.93		.90
31		.00		.26	.62		.33		.01	.93		.89
Mean	42.13	42.01	42.12	42.38	42.71	42.68	42.70	42.38	42.07	41.97	41.95	41.89
Max.	42.38	42.50	42.36	42.60	43.14	43.12	43.32	42.80	42.15	42.01	42.02	41.96
Min.	41.94	42.00	41.97	42.22	42.35	42.45	42.33	42.16	42.01	41.93	41.89	41.86

WATER YEAR 1956 : Max. 43.32 m. Min. 41.86 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.90	8.00	3.55	25	22	34	46	18	9.80	5.66	2.72	1.35
2	5.27	9.80	4.88	30	25	37	41	17	9.80	5.66	2.72	1.35
3	11	31	5.27	23	24	66	46	16	9.80	5.27	2.72	1.35
4	4.88	32	5.49	20	37	66	42	16	9.35	4.88	3.00	1.21
5	2.17	16	3.27	20	75	56	34	20	9.35	5.27	2.72	1.35
6	4.88	11	1.90	24	80	48	37	26	8.90	4.88	2.72	1.21
7	5.66	7.22	5.66	26	65	46	58	29	8.00	4.88	2.45	1.08
8	6.44	7.22	15	24	63	48	39	56	8.00	4.88	2.45	0.94
9	5.27	6.83	18	26	56	60	37	41	8.45	4.49	2.17	0.94
10	4.88	8.00	22	54	52	83	76	29	8.00	4.10	2.45	0.81
11	7.61	12	14	36	44	77	79	23	7.61	4.10	2.45	3.82
12	3.82	15	9.35	29	40	65	67	20	7.22	3.82	2.45	1.90
13	9.35	23	8.45	24	43	55	69	18	7.22	3.82	2.45	1.21
14	8.45	19	8.90	22	60	48	52	19	7.22	3.82	2.72	2.17
15	8.90	14	7.22	19	89	45	52	41	7.22	4.10	2.72	1.35
16	14	16	9.35	17	78	44	64	54	7.22	4.10	2.17	1.90
17	14	18	9.80	22	68	45	119	52	6.05	4.10	2.17	0.67
18	17	14	12	19	60	43	103	38	6.05	3.55	1.90	1.90
19	17	11	10	24	52	37	85	28	6.44	3.55	4.10	1.90
20	16	9.80	11	28	53	37	63	22	6.44	3.00	6.05	2.17
21	12	11	8.90	27	53	44	49	19	5.27	3.55	4.88	1.35
22	17	8.00	10	22	49	41	40	16	5.66	3.55	3.55	1.35
23	24	7.22	10	21	43	35	34	15	6.05	2.72	2.45	1.35
24	22	9.35	11	20	38	33	29	15	4.88	3.55	1.90	1.35
25	28	8.45	13	19	34	34	26	14	4.88	3.55	2.17	1.21
26	14	7.61	12	16	33	31	24	12	5.27	3.27	2.17	1.21
27	9.80	7.22	10	15	31	28	22	12	4.88	2.72	1.35	0.81
28	10	6.83	8.00	14	29	32	22	11	4.88	3.00	1.35	1.35
29	9.80	6.05	8.90	17	29	28	22	11	4.88	3.00		2.72
30	6.83	5.27	23	18	34	35	21	10	4.10	3.00		2.45
31		5.82		17	40		18		5.66	3.00		2.17
Total	321.91	369.69	299.89	718	1,500	1,379	1,516	718	214.55	123.34	75.12	47.90
Mean	10.7	11.9	9.99	23.2	48.4	46.0	48.9	23.9	6.92	3.88	2.68	1.54
Max.	28	32	23	54	89	83	119	56	9.80	5.66	6.05	3.82
Min.	1.90	3.82	1.90	14	22	28	18	10	4.10	2.72	1.35	0.31
Runoff — mcm.	27.813	31.941	25.910	62.035	129.600	119.146	130.982	62.035	18.537	10.377	6.490	4.138

WATER YEAR 1956 : Max. 119 Min. 0.67 Mean 19.9 Annual Runoff 629.285 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 17	15.00	43.53	146				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1954
KHLONG U-TA-PHAO RIVER BASIN

Khlong Wat at Ton Nga Chang, Songkhla (X.14)

Location: Lat 6°- 55' - 00" N, Long 100°- 20' - 00" E, on left bank at Ton Nga Chang Fall, 5 kilometers from Phet Kasem Highway at Ban Tha Rae, 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 gage site.
Elevation: +114.958 m. (A.D.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1954 to date.
Rated by Float: -
Rated by Current Meter: 1954 to date

Stability of Channel Regimes: Fairly stable, hourly mean discharge are used for flow computation.

Overbank Flow Conditions: No overbank flow.

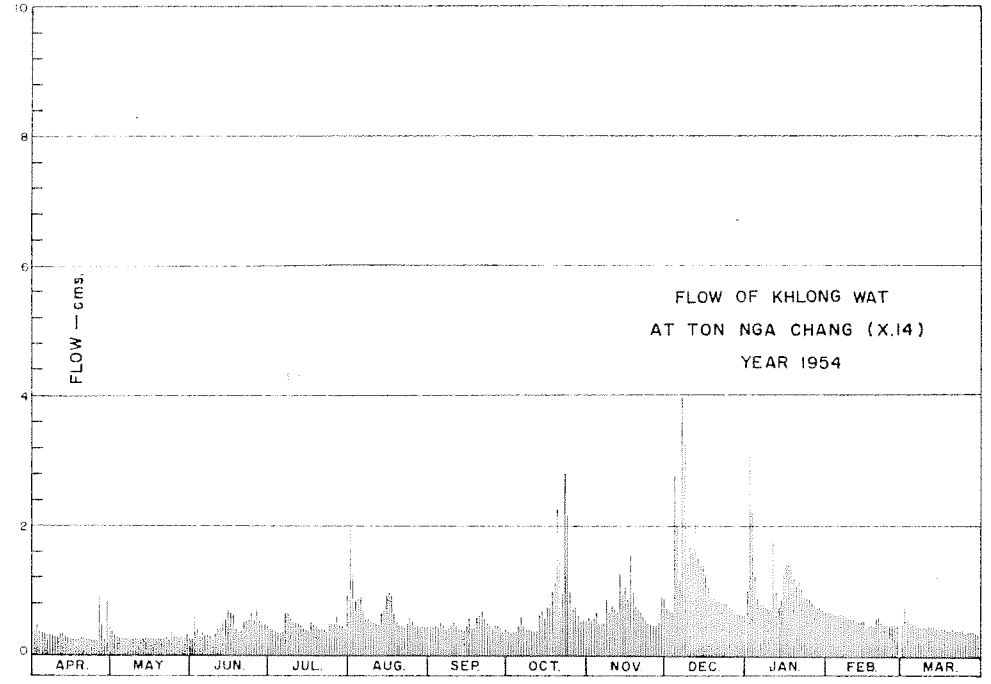
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.80	109.80	109.74	109.81	110.12	109.83	109.80	109.86	109.90	109.90	109.89	109.83
2	.83	.77	.88	.81	109.99	.82	.79	.85	.89	110.24	.89	.90
3	.78	.76	.77	.80	.92	.83	.80	.86	.89	.07	.88	.85
4	.78	.75	.76	.79	.94	.82	.79	.87	110.22	109.97	.88	.84
5	.78	.75	.79	.79	.95	.85	.84	.84	.04	.93	.88	.83
6	109.77	109.75	109.75	109.80	109.89	109.83	109.87	109.84	109.96	109.92	109.88	109.83
7	.77	.75	.75	.89	.86	.81	.82	.84	110.22	.92	.88	.82
8	.77	.74	.75	.89	.86	.82	.81	.92	.22	.91	.87	.82
9	.76	.74	.74	.86	.85	.83	.81	.89	.02	.90	.86	.82
10	.76	.75	.78	.85	.85	.85	.80	.90	.06	.90	.86	.82
11	109.78	109.74	109.82	109.84	109.84	109.83	109.80	109.90	110.06	110.02	109.86	109.82
12	.78	.75	.82	.84	.83	.81	.80	.87	.10	109.93	.85	.82
13	.76	.75	.85	.83	.85	.81	.87	.97	.03	.91	.85	.82
14	.75	.75	.86	.81	.93	.80	.88	.95	.04	.93	.85	.81
15	.74	.75	.90	.80	.91	.85	.86	.96	.04	110.01	.85	.81
16	109.74	109.75	109.89	109.80	109.96	109.87	109.88	109.92	110.01	110.03	109.85	109.81
17	.74	.75	.88	.85	.95	.81	.91	110.05	109.97	.04	.93	.81
18	.74	.75	.80	.83	.86	.82	.95	109.93	.94	.03	.83	.80
19	.75	.75	.80	.82	.85	.87	.92	.91	.94	109.99	.83	.80
20	.75	.75	.80	.81	.83	.86	110.04	.90	.95	.96	.86	.81
21	109.74	109.75	109.85	109.81	109.83	109.89	110.04	109.89	109.93	110.00	109.87	109.80
22	.74	.76	.85	.81	.82	.86	109.90	.87	.93	109.97	.84	.80
23	.73	.74	.86	.80	.84	.84	110.11	.85	.92	.94	.83	.80
24	.73	.80	.89	.84	.87	.85	.09	.84	.92	.94	.83	.80
25	.73	.76	.85	.84	.85	.81	109.90	.83	.91	.94	.83	.78
26	109.95	109.76	109.90	109.84	109.82	109.86	109.90	109.85	109.90	109.92	109.83	109.79
27	.76	.75	.84	.88	.85	.83	.91	.85	.89	.92	.83	.79
28	.74	.76	.84	.83	.82	.82	.86	.89	.88	.91	.83	.79
29	.93	.75	.84	.83	.83	.80	.85	.94	.88	.91		.78
30	.80	.78	.83	.81	.82	.81	.86	.94	.88	.90		.77
31		.75		.96	.82		.85		.88	.89		.78
Mean	109.77	109.75	109.82	109.83	109.88	109.83	109.88	109.89	109.98	109.96	109.85	109.81
Max.	109.95	109.80	109.90	109.96	110.12	109.89	110.11	110.05	110.22	110.24	109.89	109.90
Min.	109.73	109.74	109.74	109.79	109.82	109.80	109.79	109.83	109.88	109.89	109.83	108.77

WATER YEAR 1954 : Max. 110.24 m. Min. 108.77 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1954 TO MARCH 31, 1955

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.37	0.37	0.24	0.40	1.95	0.46	0.37	* 0.58	0.70	* 0.74	0.66	0.46
2	0.46	0.30	0.63	0.40	1.11	0.43	0.35	0.52	0.66	* 3.06	0.66	0.74
3	0.33	0.28	0.30	0.37	0.79	0.46	0.37	* 0.57	0.66	* 1.61	0.63	0.52
4	0.33	0.26	0.28	0.35	0.88	0.43	0.35	* 0.66	* 2.73	1.02	0.63	0.49
5	0.33	0.26	0.35	0.35	0.92	0.52	0.49	0.49	* 1.39	0.83	0.63	0.46
6	0.30	0.26	0.26	0.37	0.66	0.46	* 0.60	0.49	0.97	0.79	0.63	0.46
7	0.30	0.26	0.26	0.66	0.56	0.40	0.43	0.49	* 3.97	0.79	0.63	0.43
8	0.30	0.24	0.26	0.66	0.56	0.43	0.40	* 0.86	2.78	0.74	0.59	0.43
9	0.28	0.24	0.24	0.56	0.52	0.46	0.40	0.66	1.28	0.70	0.56	0.43
10	0.28	0.26	0.33	0.52	0.52	0.52	0.37	* 0.77	* 1.66	0.70	0.56	0.43
11	0.33	0.24	0.43	0.49	0.49	0.46	0.37	0.70	* 1.57	* 1.73	0.56	0.43
12	0.33	0.26	0.43	0.49	0.46	0.40	0.37	0.59	* 2.03	0.83	0.52	0.43
13	0.28	0.26	0.52	0.46	* 0.66	0.40	* 0.62	1.26	* 1.36	0.74	0.52	0.43
14	0.26	0.26	0.56	0.40	* 0.68	0.38	* 0.69	0.92	* 1.42	0.83	0.52	0.40
15	0.24	0.26	0.70	0.37	* 0.93	0.46	0.56	* 1.06	1.40	* 1.22	0.52	0.40
16	0.24	0.26	0.66	0.37	0.97	0.59	* 0.73	* 0.84	1.22	* 1.42	0.46	0.40
17	0.24	0.26	0.63	0.52	0.92	0.40	* 0.79	* 1.55	1.02	1.40	0.46	0.40
18	0.24	0.26	0.37	0.46	0.56	0.43	* 0.99	* 0.82	0.88	1.34	0.46	0.37
19	0.26	0.26	0.37	0.43	0.52	0.59	* 0.81	0.74	0.88	1.11	0.46	0.37
20	0.26	0.26	0.37	0.40	0.46	* 0.62	* 2.26	0.70	0.83	1.06	0.56	0.40
21	0.24	0.26	0.52	0.40	0.46	* 0.67	* 1.57	0.66	0.83	1.16	0.59	0.37
22	0.24	0.28	0.52	0.40	0.43	* 0.55	0.70	0.59	0.83	1.02	0.49	0.37
23	0.22	0.24	0.56	0.37	0.49	0.49	* 2.80	0.52	0.79	0.88	0.46	0.37
24	0.22	0.38	0.66	0.49	0.59	0.46	* 1.25	0.49	0.79	0.88	0.46	0.37
25	0.22	0.28	0.52	0.49	0.52	0.40	* 0.90	0.46	0.74	0.88	0.46	0.33
26	0.92	0.28	0.70	0.49	0.44	0.46	0.70	0.46	0.70	0.79	0.46	0.35
27	0.28	0.26	0.49	0.63	0.46	0.46	0.74	0.46	0.66	0.79	0.46	0.35
28	0.24	0.28	0.49	0.46	0.43	0.43	0.56	* 0.70	0.63	0.74	0.46	0.35
29	0.83	0.26	0.49	0.46	0.46	0.37	0.52	* 0.89	0.63	0.74		0.33
30	0.37	0.33	0.46	0.40	0.43	0.40	0.56	0.88	0.63	0.70		0.30
31		0.26		0.97	0.43		0.52		0.63	0.66		0.33
Total	9.74	8.42	13.60	14.59	20.26	13.99	23.14	21.38	37.27	31.90	15.06	12.70
Mean	0.32	0.27	0.45	0.47	0.65	0.47	0.75	0.71	1.20	1.03	0.54	0.41
Max.	0.92	0.38	0.70	0.97	1.95	0.67	2.80	1.55	3.97	3.06	0.66	0.74
Min.	0.22	0.24	0.24	0.35	0.43	0.37	0.35	0.40	0.63	0.66	0.46	0.30
Runoff - mcm.	0.842	0.727	1.175	1.261	1.750	1.209	1.999	1.847	3.220	2.756	1.301	1.097

WATER YEAR 1954 : Max. 3.97 Min. 0.22 Mean 0.61 Annual Runoff 19.185 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 7	13.00	111.14	21				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1955
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 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 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: Rather unstable, hourly mean discharge are used for flow computation.

Overbank Flow Conditions: No overbank flow.

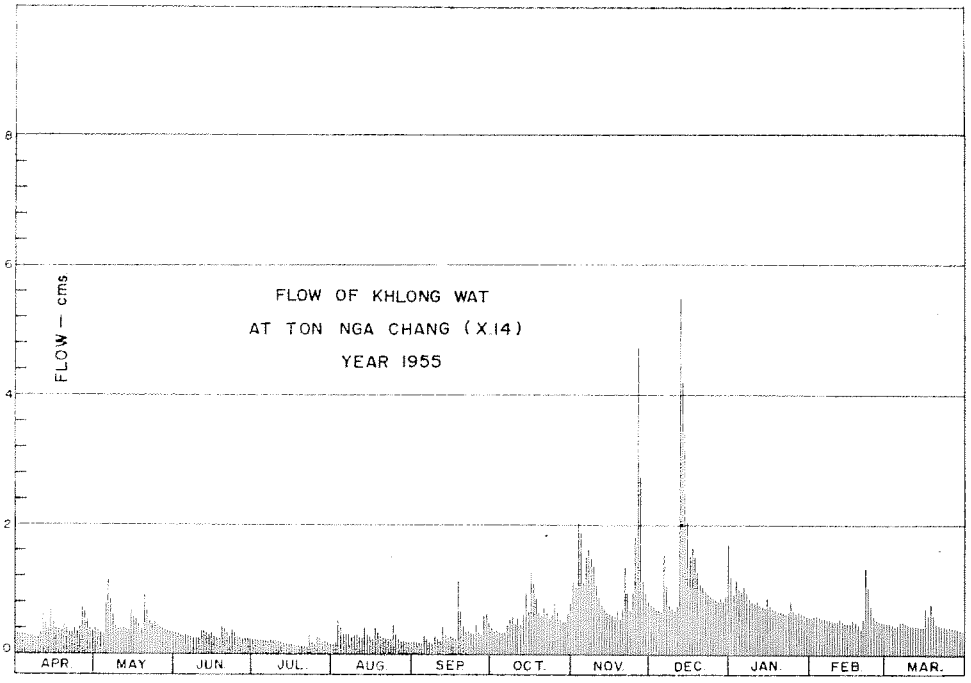
General Description: Records good. Stage - discharge relation used is defined by discharge measurements made during 1955. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.77	109.81	109.78	109.73	109.69	109.71	109.85	109.98	109.91	109.98	109.87	109.84
2	.77	.79	.77	.73	.72	.71	.79	.96	.90	.95	.87	.84
3	.77	.79	.77	.73	.81	.71	.79	110.04	.90	.99	.87	.83
4	.76	.81	.76	.73	.80	.70	.78	.09	.90	.96	.86	.83
5	.76	.86	.76	.72	.77	.75	.77	109.97	.89	.96	.86	.83
6	109.76	109.97	109.76	109.72	109.79	109.73	109.78	110.30	110.04	109.98	109.86	109.84
7	.75	.92	.75	.72	.77	.72	.82	.09	109.93	.95	.85	.84
8	.75	.85	.75	.73	.75	.70	.85	.05	.91	.93	.85	.83
9	.75	.81	.75	.72	.76	.75	.86	.03	.90	.93	.85	.83
10	.77	.80	.74	.72	.77	.74	.83	109.97	.89	.92	.84	.82
11	109.84	109.80	109.81	109.71	109.75	109.72	109.85	109.94	109.91	109.93	109.84	109.82
12	.83	.81	.79	.71	.75	.80	.82	.91	110.40	.91	.86	.82
13	.80	.86	.78	.69	.79	.76	.86	.89	.34	.91	.85	.82
14	.87	.80	.77	.69	.72	.74	.94	.88	.22	.90	.84	.81
15	.82	.87	.79	.69	.75	.75	.88	.87	.10	.94	.84	.81
16	109.80	109.85	109.75	109.68	109.74	109.74	109.96	109.87	110.06	109.91	109.84	109.88
17	.80	.85	.74	.68	.79	.72	.97	.87	.07	.90	.85	.87
18	.79	.82	.75	.68	.77	.87	.92	.89	.05	.89	.84	.90
19	.82	.80	.80	.68	.75	.84	.88	.86	.01	.89	.83	.86
20	.80	.91	.81	.67	.74	.82	.86	.86	109.99	.89	.82	.83
21	109.78	109.87	109.78	109.67	109.74	109.78	109.89	110.00	109.97	109.89	109.83	109.82
22	.78	.84	.75	.67	.74	.79	.88	109.92	.96	.88	.98	.82
23	.80	.83	.81	.75	.73	.77	.85	.89	.95	.88	.90	.82
24	.79	.84	.78	.70	.80	.75	.87	.93	.94	.92	.89	.81
25	.89	.83	.75	.69	.75	.82	.91	.99	.94	.89	.86	.82
26	109.89	109.81	109.75	109.73	109.74	109.78	109.88	110.33	109.93	109.89	109.85	109.80
27	.88	.80	.74	.75	.73	.76	.85	.04	.95	.88	.84	.80
28	.84	.80	.74	.71	.72	.84	.84	109.98	.94	.88	.84	.80
29	.80	.79	.74	.72	.71	.87	.85	.95	.93	.87	.84	.80
30	.79	.79	.74	.71	.71	.72	.84	.93	.95	.87		.80
31		.78		.69	.71		.91		110.05	.87		.80
Mean	109.80	109.83	109.76	109.71	109.75	109.76	109.86	109.97	109.99	109.91	109.85	109.82
Max.	109.89	109.97	109.81	109.75	109.81	109.87	109.97	110.33	110.40	109.99	109.98	109.90
Min.	109.75	109.78	109.74	109.67	109.69	109.71	109.77	109.86	109.84	109.87	109.82	109.80

WATER YEAR 1955 : Max. 110.40 m. Min. 109.67 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1955 TO MARCH 31, 1956

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.31	0.41	0.33	0.23	0.15	0.19	0.40	1.11	0.76	1.06	0.57	0.48
2	0.30	0.37	0.32	0.23	0.21	0.19	0.36	1.02	0.72	0.90	0.58	0.48
3	0.31	0.35	0.30	0.22	0.53	0.19	0.36	2.03	0.70	1.15	0.58	0.46
4	0.30	0.32	0.29	0.22	0.39	0.17	0.33	1.85	0.69	0.96	0.56	0.42
5	0.28	0.81	0.30	0.21	0.30	0.28	0.32	1.02	0.67	0.97	0.55	0.45
6	0.28	1.15	0.28	0.21	0.32	0.23	0.34	1.49	1.53	1.05	0.55	0.49
7	0.28	0.81	0.27	0.20	0.31	0.20	0.47	1.62	0.84	0.92	0.52	0.50
8	0.26	0.55	0.26	0.23	0.26	0.17	0.54	1.48	0.75	0.85	0.52	0.47
9	0.26	0.42	0.25	0.21	0.29	0.28	0.58	1.37	0.69	0.81	0.51	0.45
10	0.31	0.38	0.25	0.21	0.31	0.23	0.47	1.00	0.66	0.78	0.50	0.43
11	0.63	0.40	0.36	0.19	0.26	0.21	0.55	0.88	0.73	0.82	0.50	0.43
12	0.48	0.41	0.36	0.18	0.25	0.42	0.45	0.75	5.48	0.75	0.55	0.43
13	0.39	0.39	0.34	0.16	0.41	0.29	0.62	0.69	4.10	0.74	0.51	0.42
14	0.70	0.38	0.30	0.16	0.30	0.26	0.94	0.65	2.81	0.72	0.48	0.41
15	0.46	0.69	0.34	0.15	0.26	0.28	0.63	0.61	1.79	0.87	0.48	0.41
16	0.40	0.56	0.27	0.15	0.24	0.26	1.26	0.59	1.50	0.73	0.47	0.70
17	0.37	0.55	0.25	0.14	0.40	0.21	1.04	0.58	1.62	0.70	0.53	0.59
18	0.37	0.44	0.25	0.14	0.33	1.12	0.80	0.67	1.46	0.68	0.49	0.78
19	0.46	0.39	0.42	0.13	0.27	0.50	0.64	0.55	1.20	0.66	0.46	0.55
20	0.39	0.92	0.40	0.12	0.24	0.44	0.59	0.56	1.08	0.66	0.40	0.46
21	0.34	0.61	0.33	0.12	0.24	0.34	0.72	1.33	1.03	0.65	0.45	0.43
22	0.33	0.51	0.27	0.12	0.25	0.36	0.65	0.79	0.96	0.63	1.33	0.42
23	0.40	0.47	0.37	0.30	0.23	0.32	0.55	0.67	0.91	0.63	0.92	0.42
24	0.36	0.50	0.34	0.17	0.45	0.32	0.61	0.94	0.89	0.82	0.67	0.40
25	0.45	0.47	0.26	0.15	0.27	0.45	0.79	1.23	0.88	0.67	0.58	0.41
26	0.72	0.42	0.26	0.27	0.24	0.34	0.65	4.72	0.84	0.63	0.54	0.39
27	0.65	0.39	0.25	0.27	0.20	0.29	0.54	1.39	0.82	0.65	0.51	0.38
28	0.51	0.37	0.25	0.18	0.21	0.59	0.50	1.06	0.87	0.64	0.50	0.38
29	0.39	0.36	0.25	0.21	0.19	0.62	0.52	0.91	0.83	0.61	0.48	0.36
30	0.36	0.35	0.24	0.19	0.19	0.45	0.59	0.82	0.91	0.59		0.36
31		0.34		0.16	0.19		0.79		1.69	0.58		0.36
Total	12.05	15.49	8.96	5.83	8.69	10.20	18.60	34.38	40.39	23.88	16.29	14.12
Mean	0.40	0.50	0.30	0.19	0.28	0.34	0.60	1.15	1.30	0.77	0.56	0.45
Max.	0.72	1.15	0.42	0.30	0.53	1.12	1.26	4.72	5.48	1.15	1.33	0.78
Min.	0.26	0.32	0.24	0.12	0.15	0.17	0.32	0.55	0.66	0.58	0.40	0.36
Runoff - mcm.	1.041	1.339	0.774	0.504	0.751	0.881	1.607	2.970	3.490	2.063	1.407	1.220

WATER YEAR 1955 : Max. 5.48 Min. 0.12 Mean 0.57 Annual Runoff 18.047 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 12	21.00	111.07	16				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
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 kilometers from Phet Kasem Highway at Ban Tha Rae, about 15 kilometers from Amphoe Hat Yai, Songkhla.

Drainage Area: 71 sq.km.

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 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: Unstable, hourly mean discharge and periodic rating curve are used for flow computation.

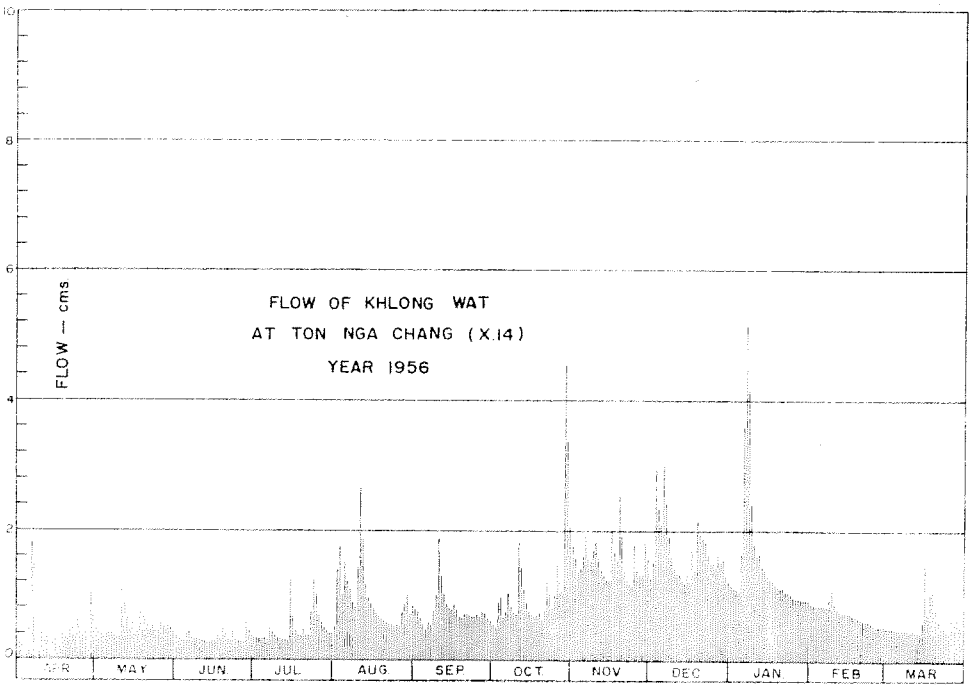
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage – discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.79	109.88	109.85	109.74	109.81	109.92	109.86	109.96	108.89	109.88	109.82	109.75
2	.81	.85	.84	.73	110.00	.91	.85	.93	.91	.87	.82	.74
3	.80	.84	.83	.73	.04	.87	.94	.91	110.05	.87	.82	.75
4	.83	.87	.83	.73	109.91	.84	.99	.92	.00	.86	.81	.74
5	.86	.85	.86	.73	.99	.84	.90	.93	109.99	.85	.82	.74
6	109.96	109.86	109.85	109.72	109.95	109.86	109.91	109.96	110.07	110.08	109.82	109.74
7	.87	.85	.85	.73	.94	.85	.98	.92	.01	.18	.82	.74
8	.85	.84	.82	.77	.89	.90	.94	.93	109.95	.09	.84	.74
9	.86	.83	.82	.76	.86	.97	.91	.95	.94	109.99	.87	.74
10	.87	.82	.81	.74	.96	110.14	.89	.95	.91	.95	.82	.73
11	109.83	109.99	109.81	109.73	110.15	110.03	110.04	109.92	109.90	109.94	109.81	109.74
12	.82	.94	.81	.72	.02	109.97	109.94	.91	.90	.95	.80	.73
13	.82	.90	.80	.72	109.95	.95	.92	.90	.89	.92	.80	.73
14	.82	.87	.81	.87	.91	.93	.88	.92	.88	.91	.80	.72
15	.82	.89	.81	.85	.89	.92	.86	.92	.90	.90	.80	.71
16	109.83	109.87	109.81	109.78	109.87	109.94	109.84	109.98	109.88	109.89	109.79	109.84
17	.84	.89	.84	.76	.86	.90	.84	.93	.94	.89	.79	.77
18	.85	.92	.82	.75	.84	.88	.84	.92	.90	.88	.79	.84
19	.83	.92	.85	.75	.83	.88	.85	110.00	110.00	.87	.78	.84
20	.84	.90	.84	.77	.85	.88	.82	109.95	109.98	.87	.78	.80
21	109.87	109.88	109.82	109.75	109.82	109.90	109.86	109.90	109.97	109.86	109.77	109.76
22	.87	.87	.82	.74	.81	.89	.95	.89	.97	.86	.77	.75
23	.90	.88	.87	.82	.81	.88	.91	.88	.94	.86	.77	.75
24	.90	.86	.81	.91	.80	.89	.87	.87	.91	.85	.76	.74
25	.86	.86	.81	.90	.81	.91	.92	.95	.93	.85	.76	.74
26	109.84	109.91	109.81	109.82	109.80	109.89	110.01	109.94	109.91	109.84	109.75	109.80
27	.85	.88	.81	.81	.86	.91	109.94	.90	.95	.84	.75	.76
28	.85	.89	.85	.79	.88	.90	.91	.90	.93	.84	.75	.79
29	.94	.88	.73	.78	.92	.88	110.10	.97	.90	.84		.77
30	.90	.87	.75	.76	.85	.87	.02	.93	.89	.84		.77
31		.89		.76	.86		109.98		.88	.83		.86
Mean	109.85	109.88	109.82	109.77	109.89	109.91	109.91	109.96	109.94	109.90	109.79	109.74
Max.	109.96	109.99	109.86	109.91	110.15	110.14	110.10	110.00	110.07	110.18	109.87	109.86
Min.	109.79	109.82	109.75	109.72	109.80	109.84	109.82	109.87	109.88	109.83	109.75	109.71

WATER YEAR 1956 : Max. 110.18 m. Min. 109.71 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.24	0.52	0.38	0.34	0.58	0.77	0.52	1.72	1.27	1.15	0.86	0.51
2	0.27	0.42	0.36	0.33	1.47	0.73	0.50	1.52	1.39	1.12	0.84	0.49
3	0.29	0.38	0.34	0.33	1.74	0.61	0.89	1.37	2.95	1.09	0.84	0.51
4	0.41	0.48	0.33	0.34	0.98	0.53	0.96	1.43	2.23	1.06	0.81	0.49
5	0.54	0.40	0.49	0.33	1.51	0.49	0.67	1.55	2.00	1.03	0.84	0.48
6	1.80	0.47	0.40	0.31	1.14	0.57	0.75	1.95	2.99	3.68	0.84	0.48
7	0.50	0.40	0.34	0.51	1.11	0.53	1.05	1.46	2.21	5.12	0.82	0.48
8	0.43	0.36	0.32	0.44	0.87	0.71	0.81	1.53	1.80	3.39	0.96	0.48
9	0.44	0.35	0.32	0.38	0.73	1.01	0.71	1.72	1.56	2.05	1.08	0.47
10	0.51	0.33	0.31	0.35	1.32	1.88	0.64	1.81	1.41	1.79	0.85	0.45
11	0.39	1.12	0.29	0.33	2.66	1.22	1.82	1.45	1.34	1.59	0.80	0.48
12	0.33	0.81	0.28	0.32	1.56	0.99	1.35	1.34	1.32	1.63	0.75	0.45
13	0.32	0.61	0.26	0.31	1.17	0.87	1.03	1.29	1.22	1.45	0.74	0.45
14	0.31	0.49	0.28	1.24	0.96	0.80	0.83	1.43	1.18	1.40	0.74	0.43
15	0.30	0.57	0.28	0.89	0.85	0.77	0.74	1.44	1.32	1.31	0.73	0.64
16	0.35	0.85	0.30	0.46	0.79	0.86	0.69	2.00	1.19	1.24	0.72	1.47
17	0.39	0.42	0.39	0.46	0.72	0.71	0.67	1.60	1.70	1.21	0.70	0.65
18	0.42	0.80	0.31	0.38	0.68	0.65	0.65	1.42	1.33	1.16	0.68	1.07
19	0.36	0.73	0.51	0.38	0.63	0.64	0.70	2.54	2.14	1.12	0.65	1.07
20	0.37	0.62	0.37	0.46	0.61	0.69	0.61	1.60	1.94	1.12	0.63	0.75
21	0.54	0.51	0.31	0.38	0.57	0.69	0.82	1.33	1.88	1.12	0.61	0.61
22	0.48	0.48	0.32	0.36	0.56	0.68	1.23	1.22	1.81	1.06	0.61	0.52
23	0.62	0.52	0.49	0.72	0.54	0.65	1.00	1.18	1.60	1.06	0.61	0.52
24	0.63	0.45	0.30	1.23	0.52	0.67	0.79	1.15	1.48	1.02	0.56	0.48
25	0.43	0.45	0.30	0.92	0.55	0.70	1.12	1.78	1.50	0.98	0.54	0.46
26	0.37	0.68	0.29	0.59	0.53	0.65	1.54	1.33	1.40	0.95	0.53	0.74
27	0.43	0.52	0.30	0.58	0.75	0.74	1.10	1.50	1.64	0.95	0.53	0.57
28	0.39	0.59	0.59	0.48	0.91	0.70	0.93	1.33	1.51	0.94	0.53	0.68
29	1.02	0.53	0.46	0.45	1.01	0.63	* 4.54	1.82	1.33	0.93		0.72
30	0.62	0.49	0.39	0.41	0.89	0.60	* 2.35	1.54	1.26	0.95		0.59
31		0.42		0.43	0.83		* 1.94		1.20	0.92		1.42
Total	14.50	16.77	10.61	15.44	29.54	22.74	33.92	46.15	51.10	45.59	20.40	19.61
Mean	0.48	0.54	0.35	0.50	0.95	0.76	1.09	*1.54	1.65	1.47	0.73	0.63
Max.	1.80	1.12	0.59	1.24	2.66	1.88	4.54	2.54	2.99	5.12	1.08	1.47
Min.	0.24	0.33	0.26	0.31	0.52	0.49	0.50	1.15	1.18	0.92	0.53	0.43
Runoff - mcm.	1.255	1.449	0.915	1.334	2.552	1.965	2.931	3.987	4.415	3.939	1.762	1.694

WATER YEAR 1956 : Max. 5.12 Min. 0.24 Mean 0.89 Annual Runoff 28.198 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	17.00	110.65	20				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
KHLONG SAOTHONG RIVER BASIN

Khlong Khao Kaeo, Kra Rom Fall, Nakhon Si Thammarat (X.15)

Location: Lat 8° - 21' - 29" N, Long 99° - 43' - 19" E, on left bank at Kra Rom Fall, 20 kilometers upstream from Amphoe Lan Saka, Nakhon Si Thammarat.

Draina ge Area: 5 sq.km.

Type of Gage: Water stage recorder.

Zero Gage at Bottom at: +95.448 m. (A.D.)

Bench Mark:
Location:
Elevation:

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1956 - 59

Rating Operation:
Period of Rating: 1956 - 57
Rated by Float: -
Rated by Current Meter: 1956 - 57

Stability of Channel Regimes: Unstable, hourly mean discharge is computed for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records poor. Stage - discharge relation used is defined by discharge measurements made during 1956. No upstream state diversions for irrigation.

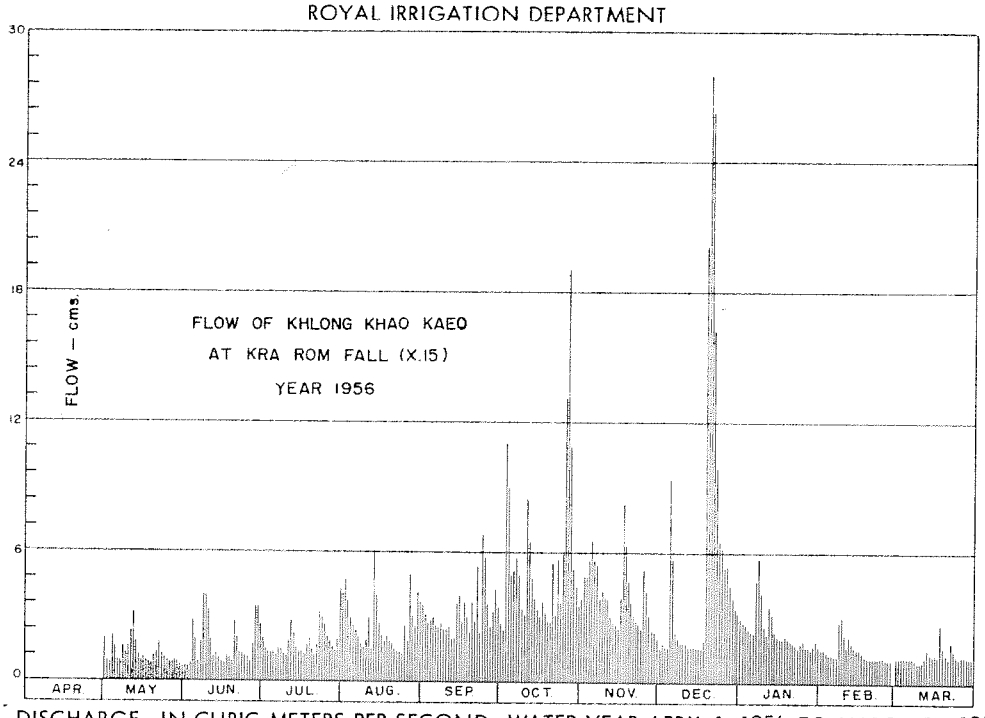
Remarks: No gage - height record for Apr. 1 - 30.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		96.28	96.15	96.26	96.38	96.38	96.31	96.39	96.29	96.37	96.25	96.18
2		.17	.15	.23	.43	.34	.31	.43	.30	.36	.25	.18
3		.17	.15	.22	.38	.32	.69	.43	.29	.35	.24	.18
4		.28	.33	.22	.33	.34	.56	.46	.28	.34	.23	.18
5		.22	.20	.22	.31	.35	.45	.49	.68	.33	.23	.18
6		96.18	96.17	96.21	96.30	96.32	96.47	96.45	96.41	96.33	96.22	96.17
7		.18	.26	.24	.27	.36	.47	.41	.35	.48	.22	.17
8		.24	.39	.22	.25	.32	.33	.38	.33	.57	.34	.16
9		.21	.39	.21	.25	.29	.33	.40	.31	.41	.35	.15
10		.23	.35	.20	.26	.31	.37	.38	.31	.35	.26	.15
11		96.30	96.21	96.28	96.35	96.31	96.67	96.38	96.30	96.33	96.25	96.16
12		.35	.19	.33	.25	.28	.52	.34	.29	.43	.29	.19
13		.23	.21	.28	.49	.28	.43	.36	.28	.40	.26	.23
14		.20	.19	.22	.35	.39	.39	.34	.28	.33	.24	.20
15		.18	.18	.22	.31	.39	.38	.33	.27	.32	.23	.20
16		96.19	96.17	96.22	96.29	96.34	96.35	96.43	96.27	96.31	96.23	96.21
17		.18	.20	.21	.26	.39	.39	.65	.27	.31	.22	.19
18		.17	.19	.25	.28	.32	.36	.51	.32	.32	.21	.35
19		.17	.18	.27	.26	.30	.34	.44	97.06	.31	.20	.20
20		.20	.33	.22	.25	.38	.34	.40	.25	.30	.19	.21
21		96.22	96.24	96.20	96.24	96.34	96.47	96.37	97.18	96.29	96.19	96.18
22		.25	.21	.24	.23	.46	.36	.35	96.84	.28	.19	.29
23		.20	.21	.35	.22	.29	.46	.34	.62	.27	.19	.22
24		.19	.20	.33	.22	96.47	.39	.33	.56	.29	.19	.18
25		.18	.19	.31	.28	96.45	.52	.47	.55	.30	.19	.17
26		96.17	96.18	96.27	96.26	96.31	96.78	96.42	96.50	96.27	96.18	96.22
27		.17	.25	.26	.37	.31	.95	.35	.47	.27	.18	.19
28		.18	.37	.23	.31	.33	.61	.32	.45	.26	.18	.17
29		.17	.37	.23	.31	.40	.51	.32	.43	.28		.17
30		.16	.30	.25	.39	.36	.51	.30	.41	.30		.17
31		.15		* .36	.38		.45		.39	.27		.17
Mean		96.20	96.24	96.25	96.30	96.35	96.47	96.40	96.47	96.33	96.23	96.19
Max.		96.35	96.39	96.36	96.49	97.47	96.93	96.65	97.25	96.57	96.35	96.35
Min.		96.15	96.15	96.20	96.22	96.28	96.31	96.30	96.27	96.26	96.18	96.14

WATER YEAR 1956 : Max. 97.25 m. Min. - m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		2.00	0.70	1.90	* 4.07	3.50	2.40	4.00	1.60	2.80	1.50	1.10
2		0.85	0.70	1.50	* 4.73	3.00	2.40	4.90	1.80	2.70	1.50	1.10
3		0.85	0.70	1.40	3.50	2.70	11	4.90	1.60	2.60	1.40	1.10
4		2.10	2.80	1.40	2.80	2.80	7.62	5.60	1.60	2.40	1.30	1.10
5		1.40	1.20	1.40	2.55	3.00	4.88	6.52	* 9.36	2.30	1.30	1.10
6		0.95	0.85	1.30	2.30	2.55	5.20	5.40	3.00	2.30	1.20	1.10
7		0.95	1.90	1.60	2.00	2.46	5.73	4.40	2.20	* 4.86	1.20	1.10
8		1.60	3.85	1.40	1.75	2.70	4.36	3.80	2.00	5.70	2.80	1.00
9		1.30	3.85	1.30	1.60	2.30	3.30	4.20	1.80	3.20	3.00	0.90
10		1.50	3.20	1.20	1.90	2.40	3.10	3.80	1.80	2.40	1.70	0.90
11		2.40	1.30	2.10	3.00	2.55	8.41	3.80	1.80	2.20	1.60	1.00
12		3.20	1.10	2.80	1.60	2.00	6.20	3.00	1.60	3.50	2.10	1.20
13		1.50	1.30	2.10	* 6.07	2.00	4.40	2.70	1.60	3.10	1.70	1.50
14		1.20	1.10	1.40	* 3.29	3.65	3.70	2.60	1.60	2.20	1.60	1.30
15		0.95	0.95	1.40	2.55	3.85	3.30	2.50	1.60	2.10	1.50	1.20
16		1.10	0.85	1.40	2.10	2.80	3.00	* 4.02	1.60	2.00	1.50	1.30
17		0.95	1.20	1.30	1.90	3.65	3.70	* 8.22	1.60	2.00	1.30	1.20
18		0.85	1.10	1.75	2.10	2.70	3.10	* 5.38	2.00	2.10	1.20	2.70
19		0.85	0.95	2.00	1.90	2.30	2.80	4.20	* 21	2.60	1.10	1.30
20		1.20	2.80	1.40	1.75	3.65	2.80	3.50	* 28	1.90	1.10	1.30
21		1.40	1.60	1.20	1.50	2.80	* 5.50	2.90	* 26	1.80	1.10	1.10
22		1.75	1.30	1.60	1.40	5.30	3.10	2.70	* 14	1.70	1.10	1.90
23		1.20	1.30	3.20	1.40	2.30	* 5.68	2.60	* 7.82	1.60	1.10	1.40
24		1.10	1.20	2.80	1.30	6.80	3.70	2.50	* 6.50	1.80	1.10	1.10
25		0.95	1.10	2.55	* 2.59	5.45	* 5.22	* 5.17	* 6.11	1.90	1.10	1.10
26		0.85	0.95	2.00	1.90	2.55	* 13	* 3.80	* 5.20	1.60	1.00	1.30
27		0.85	1.75	1.90	* 4.94	2.55	* 19	2.60	5.40	1.60	1.00	1.20
28		0.95	3.50	1.50	2.55	3.14	7.18	2.30	4.20	1.50	1.00	1.10
29		0.85	3.50	1.50	2.55	4.29	4.75	2.30	3.80	1.70		1.10
30		0.75	2.40	1.75	* 4.12	3.32	4.45	2.00	3.40	1.90		1.10
31		0.70		4.27	* 3.71		3.50		3.20	1.60		1.10
Total		39.05	51.00	56.32	81.42	95.07	166.48	116.31	174.79	73.06	40.10	38.00
Mean		1.26	1.70	1.82	2.62	3.17	5.37	3.88	5.64	2.36	1.43	1.22
Max.		3.20	3.85	4.27	6.07	6.81	19.22	8.22	28	5.70	3.00	2.70
Min.		0.70	0.70	1.20	1.30	2.00	2.40	2.00	1.60	1.50	1.00	0.90
Runoff - mcm.		3.374	4.406	4.866	7.035	8.214	14.384	10.049	15.102	6.312	3.465	3.283

WATER YEAR 1956 : Max. 28 Min. 0.70 Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 20	04.00	97.87	53				

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT

WATER YEAR 1956
KHLONG DUSON RIVER BASIN

Khlong Duson at Tambon Don Don, Satun (X.16).

Location: Lat 6^0 – 48' – 02" N, Long 100^0 – 06' – 10" E, on left bank at Tambon Don Don, Amphoe Muang, Satun.

Drainage Area: 185 sq.km.

Type of Gage: Water – stage recorder (Float Gage)

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

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 24 – time daily readings by Float Gage.

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

Period of Available Gage Records: 1956 – 59

Rating Operation:

Period of Rating: 1956 – 59
Rated by Float: –
Rated by Current Meter: 1956 – 59

Stability of Channel Regimes: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

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

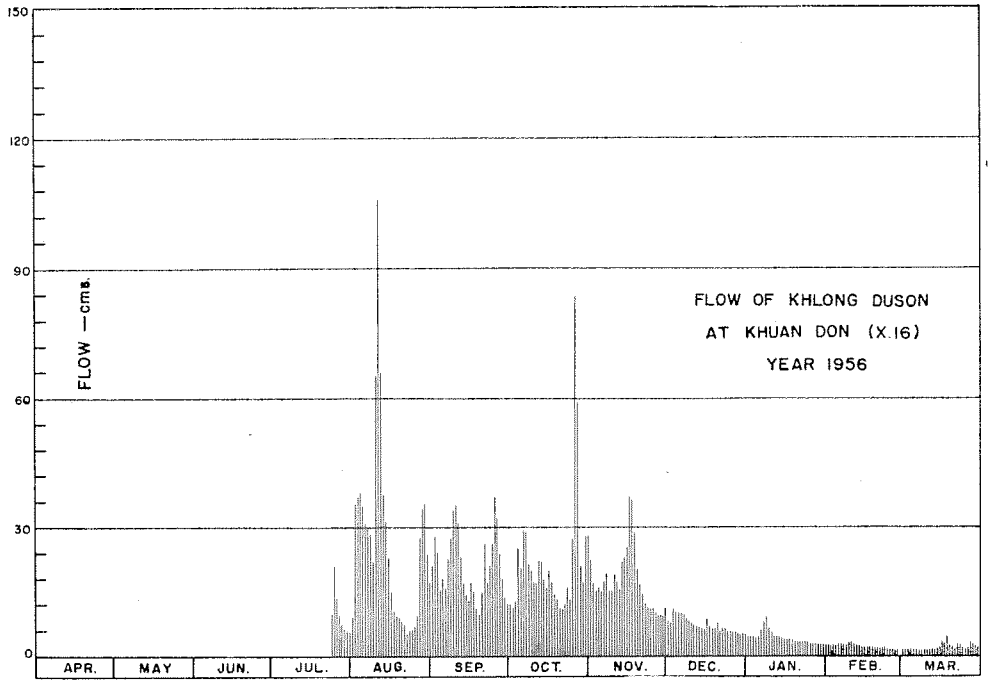
Remarks: Records began on July 24, 1956.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					1.27	1.66	1.36	1.76	1.18	1.01	0.91	0.82
2					2.19	.93	.30	.58	.17	.00	.91	.82
3					.23	.72	.40	.50	.34	.00	.90	.81
4					.29	.49	.81	.56	.29	.00	.90	.81
5					.14	.50	.69	.46	.30	0.99	.92	.81
6					2.06	1.45	2.00	1.55	1.29	1.11	0.91	0.80
7					.05	.78	.02	.68	.25	.21	.90	.80
8					.01	.95	1.70	.52	.22	.21	.89	.80
9					1.77	2.12	.70	.50	.19	.08	.92	.80
10					2.02	.33	.60	.63	.16	.04	.94	.80
11					3.96	2.07	1.59	1.58	1.15	1.02	0.89	0.79
12					2.41	1.72	.76	.49	.13	.03	.88	.79
13					.27	.55	.76	.25	.12	.01	.87	.79
14					.02	.47	.53	.76	.11	1.00	.87	.80
15					1.73	.45	.52	.92	.10	0.99	.86	.82
16					1.51	1.55	1.72	2.29	1.11	0.98	0.86	0.92
17					.38	.47	.56	.25	.10	.97	.85	.90
18					.33	.37	.45	1.81	.11	.97	.85	.98
19					.31	.31	.45	.63	.13	.96	.84	.82
20					.27	.44	.35	.54	.14	.95	.84	.82
21					1.24	1.90	1.32	1.45	1.06	0.95	0.84	0.82
22					.20	.59	.40	.38	.10	.94	.84	.89
23					.17	.75	.62	.34	.09	.94	.83	.85
24				1.10	.17	.93	.42	.31	.07	.94	.83	.80
25				1.75	.19	2.23	.87	.29	.06	.93	.83	.80
26				1.56	1.22	1.98	3.44	1.29	1.06	0.93	0.83	0.81
27				.28	.83	.70	2.04	.25	.05	.92	.82	.94
28				.19	2.15	.56	1.65	.24	.05	.92	.82	.88
29				.12	.10	.45	.59	.23	.03	.92		.84
30				.10	1.76	.38	2.14	.21	.04	.92		.83
31				.07	.53		1.97		.02	.91		.83
Mean					1.81	1.70	1.71	1.56	1.14	0.99	0.87	0.84
Max.					3.96	2.33	3.44	2.29	1.34	1.21	.94	.98
Min.					1.26	1.31	1.32	1.25	1.02	0.92	.82	.79

WATER YEAR 1956 : Max. 3.96 m. Min. 0.79 m.

HYDROLOGY SECTION, SURVEY DIVISION
ROYAL IRRIGATION DEPARTMENT



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1956 TO MARCH 31, 1957

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					9.00	21	12	20	8.00	4.40	2.70	1.60
2					35	28	11	17	7.60	4.70	2.70	1.50
3					37	23	13	15	11	4.20	2.70	1.60
4					38	15	25	17	10	4.20	2.40	1.50
5					33	18	20	15	10	4.20	3.00	1.50
6					30	15	29	17	10	6.20	2.80	1.50
7					30	23	29	19	9.80	8.00	2.80	1.50
8					28	27	20	15	8.40	9.00	2.70	1.50
9					21	34	20	15	8.20	5.90	3.20	1.50
10					30	40	18	19	7.60	5.70	3.30	1.30
11					104	29	17	17	7.20	4.60	2.80	1.30
12					42	22	22	15	6.80	4.60	2.60	1.30
13					36	16	22	22	6.40	4.40	2.40	1.40
14					29	14	15	23	6.60	4.10	2.30	1.70
15					20	13	16	26	6.40	3.90	2.30	2.00
16					13	17	20	37	8.60	3.70	2.30	3.50
17					10	14	16	36	6.20	3.90	2.20	2.80
18					9.40	10	14	24	6.20	3.70	2.20	4.60
19					9.00	9.80	13	19	6.40	3.50	2.10	2.30
20					8.00	14	11	16	7.80	3.30	2.10	2.30
21					7.20	26	11	14	5.70	3.50	2.00	1.70
22					5.60	17	12	12	6.20	3.50	1.80	3.00
23					6.00	22	16	11	6.40	3.20	2.00	2.40
24				5.90	6.20	26	13	11	5.40	3.20	1.70	1.80
25				21	7.00	37	26	11	5.70	3.00	1.70	1.70
26				16	8.20	29	83	10	5.40	3.00	1.70	1.80
27				9.40	26	20	27	9.20	5.60	3.00	1.60	3.30
28				6.60	35	17	18	9.60	5.00	2.80	1.60	2.60
29				6.20	36	13	17	9.40	5.00	2.80		2.10
30				5.90	19	12	28	11	5.20	2.80		2.10
31				5.40	17		28		4.90	3.00		2.10
Total					744.0	621.80	642	512.20	219.70	130.00	65.70	62.80
Mean					24	20.7	20.7	17.1	7.00	4.19	2.35	2.02
Max.					104	40	83	37	11	9.00	3.30	4.60
Min.					5.00	9.80	11	9.20	4.90	2.80	1.60	1.30
Runoff - mcm.					64.282	53.723	55.469	44.254	18.982	11.232	5.676	5.426

WATER YEAR 1956 : Max. 104 Min. 1.30 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11	07.00	4.47	129				