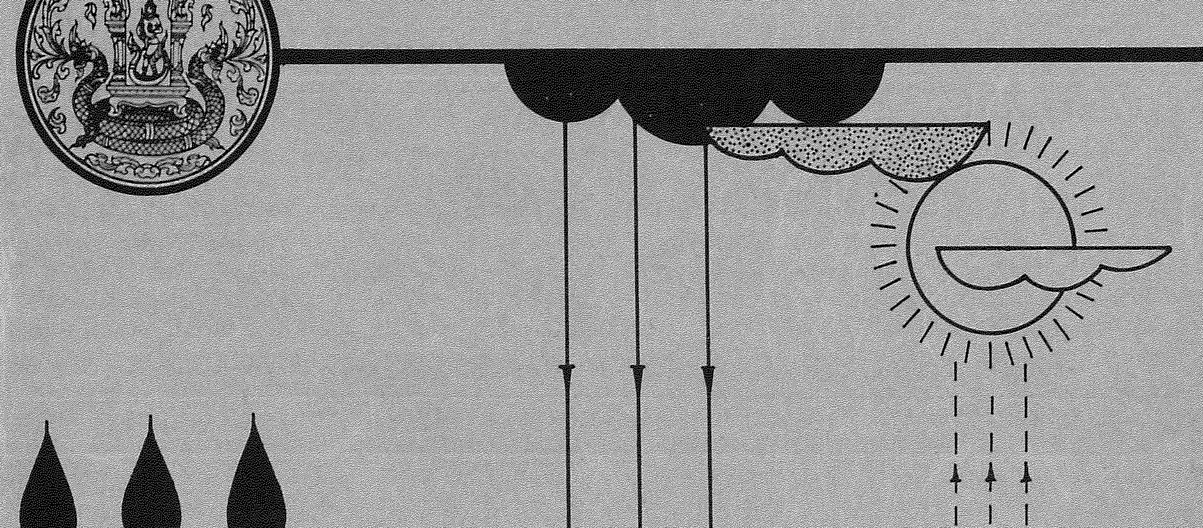
THAILAND
HYDROLOGICAL YEARBOOK

WATER YEAR 1971
VOLUME 14



ROYAL IRRIGATION DEPARTMENT

HYDROLOGY DIVISION

BANGKOK

Hydrology No. 535/79

Thailand

Hydrological Yearbook

Water Year 1971

Volume 14

Royal Irrigation Department

Hydrology Division

Bangkok

FOREWORD

The programme of yearbook publications was initiated in 1966 Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously processed data have been reviewed and arranged in serial order or volumes to be published. The first issue was published in 1968 as Volume 8. It presents records, during the 1965 water year, of stage and discharge of 59 streams at 86 actual streamflow calibrating sites and at 27 previously calibrated ones. Up till now 13 volumes of yearbooks presenting streamflow data as early as 1912 up to 1970 totalling 2,102 station-years of record had been published.

This Volume 14, which is the fourteenth issue of the series, was prepared by the Data Processing Section. It presents records, during the 1971 water year, of stage and discharge of 103 streams at 126 currently calibrating sites and at 56 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division

June 1979

ACKNOWLEDGEMENTS

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

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

We also wish to express our sincere appreciation to the Chief of Public Relation and Printing Services Section, Program Coordination and Budget Division, and his efficient staff whose kind assistance and co-ordinated effort have contributed to the success of this Volume 14 issue.

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ILLUSTRATION OF STREAMFLOW GAGING ACTIVITIES

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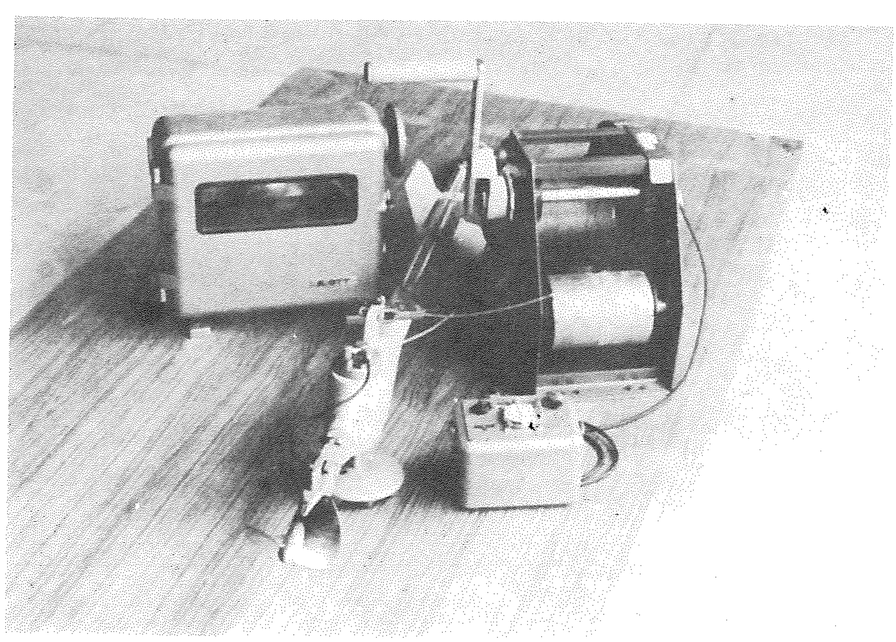

Figure 2. Standard Hydrologic Equipment

Figure 3. Standard bench mark

HYDROLOGICAL YEAR BOOK PUBLICATION

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Introduction

Great attempt has been made all along to expedite the engineering processing of the streamflow data to be ready for publication, and to translate the publication plan into implementation. Efforts from various working units as well as personnel concerned are pulled together to drive this work into reality. Publication of streamflow data has begun since 1966. The first yearbook publication came out as Volume 8 for the 1965 water year. It presents records of stage and discharge of 113 gaging stations in 59 streams.

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXI. Terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

CMS-day is the volume of water represented by a flow of 1 cubic meter per second for 24 hours. It is equivalent to 86,400 cubic meters, 0.0864 million cubic meter, or 3,050,784 cubic feet, or 70.07 acre-feet, and represents a runoff of 86.4 millimeters from 1 square kilometer.

Control designates of feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic meter per second (cms) is the rate of stream discharge expressed in volume per a unit of time. One cubic meter per second is the rate of discharge representing a volume of 1 cubic meter passing a given point during 1 second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharge during a specific period.

Momentary peak discharge is the peak discharge at a particular instant of time, at least once a year.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from rainfall would normally drains by gravity into the stream above the specified point. Figures of drainage area given herein are determined from Royal Thai Survey Department AMS map with scale of 1 to 50,000, unless otherwise noted. They include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water surface elevation above some arbitrary gage datum to which, in most cases, referred the Mean Sea Level (M.S.L.) Ko Lak datum, otherwise the arbitrary assumed datum (A.D.) being used.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. The term "staff gaging station" is applied only those gaging stations where only a gage height record is observed at an installed staff gage. If a water stage recorder is also installed, such a gaging station is referred as recording gaging station. In case of discharge measurements being practiced, it is referred as streamflow calibration or rating station.

Million cubic meter (mcm) is the volume of water expressed in millions of cubic meter.

One million cubic meter is the quantity of water required to cover 1 square kilometer to a depth of 1 meter and is equivalent to 811 acre-feet, or 408.6 cfs-day, or 264.2 million gallons.

Runoff in mcm shows the volume of approximately effective runoff from rainfall, passing a given point for a given period of time.

Annual runoff is the volume of approximately effective runoff from rainfall accumulated during the water year.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Rating tables giving the discharge for any gage height are prepared from stage-discharge relation curves or rating curves.

Water year is the 12-month period, April 1 through March 31, related to annual cycle of river flow during which the river begins to rise, reaching its flood stage and subsiding toward its cyclic minimum.

The water year is designated by the calendar year in which it begins and which includes 9 of 12 months. Thus, the year began April 1, 1969 is called the "1969 water year".

Order of listing of gaging data

In this format, gaging data are listed according to their code running number order. It has been found more convenient in locating the required data when the list is arranged in such manner. The station code name contains the letter standing for river name and number in running order according to the age of the station installed in that river. The station code, for example, for the Chao Phraya River at Wat Tha Hat installed in 1905 is C. 1, which is the first streamflow rating station ever built in this river.

Series of yearbook publications

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

Volume	Water Years	No. of station - years	Date of Issuance
1	1912 - 1937	112	September 1976
2	1938 - 1947	103	September 1976
3	1948 - 1953	146	September 1976
4	1954 - 1956	178	September 1976
5	1957 - 1959	203	May 1974

Volume	Water Years	No. of station - years	Date of Issuance
6	1960 - 1962	213	October 1973
7	1963 - 1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979

The preparation of the manuscripts of the further Volumes is in progress. It is expected that they would be issued in serial order in the very near future.

STANDARD OF STREAMFLOW DATA PROCUREMENT

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Network design

The location of stream gaging stations is primarily based upon the urgent need at various damsites which is accessible. By the time of expansion of the network at later date, the area or basin of "blind spot" is put at first priority backing up by the following conditions:

(a) Accessibility.

(b) Geographical location.

(c) Mean annual rainfall.

(d) Vegetation cover determined from Army Map Service topographic map with 1:50,000 or 1:250,000 scale.

(e) Basin soil type.

(f) Type of surface rock.

Field work

The minimum standard of basic hydrologic data for observations and measurements are equal to those recommended in the United Nations ECAFE Flood Control series No. 6.

Water stage data are obtained by staff gage and by water stage recorder. Normally a vertical section staff gage is installed for manual observation with usual frequency of reading varies from 1 to 5 times of equal interval during the daytime. At some specific station where streamflow measurement camps are situated, the reading of water stage by night is also made, in addition, usually 1 to 3 times of equal interval. The standard bench mark is also established near the gage site. The 1.00-m standard enamelled staff gage sections with 1 cm graduation are used with zero reading, in most cases, referred to Mean Sea Level (M.S.L.) Ko Lak datum, otherwise the assumed datum being used. Few wire-weight gages are also adopted on highway bridges.

In some mountainous headwater area as well as in the estuary, additional installation of water stage recorder is made. A continuous record of water stage is obtained at such station. The German A.Ott type X has so for been adopted as our standard equipment. Some pneumatic recorder is also being used. Weekly visit to the gage for inspection and changing chart paper by the crew or gage observer is under practice.

At the streamflow gaging station, flow measurement by a current meter is periodically performed so that the calibration of stream section related to flow can be made through the development of stage-flow relationship or simply called "rating curve". Two types of the streamflow gaging station are under operation: with and without crew camp. Those without crew camp are under moving team and are capable for flow measurements of several stations. Those with crew camp are subject to less accessibility.

At station operated by a moving crew, at least twice a month during the monsoon period and once a month during the low flow period are expected for flow rating performance. The moving crew frequently fails to reach the stations while at their crest stages because of road damage and time available. At station with crew camp, daily rating performance may be expected, at least once whenever change of stage per day is over 30 centimeters. Fixed boat by cableway across the river is one of typical means of flow measurement by current meter for medium river, 100 m wide. For wider river, the boat is fixed in position by anchors.

The river cross section is requested to be made simultaneously during flow velocity measurement, so that shifting of the section could be determined. This request is lawful because there had been in the older day fashion of using cross section made during dry season for discharge computation.

The German A. Ott current meter has so far been adopted as standard equipment. The multiple-point method has been used as velocity measurement practice. At present the two-point method is carefully practiced.

Office data processing

The standard techniques used overseas are adopted in processing the data. In fact the standard methods of U.S.Geological Survey and U.S. Department of Agriculture (for small streams) are adopted as general basis.

Development of rating curve - Yearly mean rating curve is generally used as a tool in determining the daily flow. Periodically developed rating is frequently used when dictated by the conditions, so that the shifting control could be eliminated or reduced. Zero flow elevation of the rating section is determined by trial and error method with logarithmic plotting of the rating curve. Extension of the logarithmic rating line is frequently used to determine the channel flow at the overbank flow stage. The overbank flow is assessed by either direct velocity measurement or slope-area method whenever applicable.

Determination of daily mean flow - Application of the adjusted daily mean gage height to rating table gives the corresponding daily mean discharge from which the monthly and the yearly mean discharges are computed. Shifting adjustment for observed gage height is made when necessary. Shifting design is made basing on flood stages and times, if any. Other adjustments such as back water, rise and fall of flood, etc., which necessitate the use of other parametric factors, are also made, if any.

At some gaging stations where rises and falls of floods are immediate, hourly basis of gage height application to the rating curve is used to determine daily mean discharge.

At stations where rises and falls of streams are gentle, gage height data are usually obtained by manual reading.

It has been found that application of 1 to 5 times average reading (for daytime) gives an error of daily mean flow not more than 15% for mountainous streams, less than 10% for larger valley streams and not more than 5% for lower deltaic streams. Most of mountainous and valley streams are under recording operation, only deltaic streams that daytime reading are still used.

The daily mean gage heights are obtained by arithmetic mean of the observed data available. Adjusted gage heights due to shifting, which are applicable to rating curve for daily mean flow computation, are practically made.

It is noted that the daily mean flow are mostly subject to upstream diversion. Headwater utilization of water by people diversions and state-owned diversions are expected in many river basins in this country. Consequently, the virgin flow is hardly determined. Daily mean values may be replaced by the monthly mean in the case of flow measured at tailwaters of existing reservoirs.

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

Review of procedure for streamflow data processing.

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

1) Checking of gage height data which are obtained either from staff gage or from water stage recorder, for the following cases:

a) Representability of daytime observation for the daily mean value, if the data are from staff gage reading.

b) Discrepancies of recording charts, if any.

c) Desirability of hourly-basis process for daily mean flow.

d) Datums of gage observation and of the rating curve used.

e) Location of gage from which data are taken and location of gage at which the rating curve is developed.

2) Checking of availability and goodness of field measurement notes.

3) Checking of differential magnitude of gage height during discharge measurement as to which arithmetic average or weighted average is desirable.

4) Checking stability of rating curve used.

5) Review of shifting control sample and design shifting, if any.

6) Adjustment of backwater, flood wave, etc., by rate of change of falls as index, if any.

7) Overall review of daily mean flow data as an end product.

8) Checking consistency of runoff volume among those observed at the upstream and downstream stations, taking into account intervening diversions of flow, if any.

Classification of streamflow data

The station description states the degree of accuracy of the records. "Excellent" indicates that, in general, the error in the daily records is believed to be less than 5 percent; "good", less than 10 percent; "fair", less than 15 percent; "poor", probably more than 15 percent.

Future plan for computerization

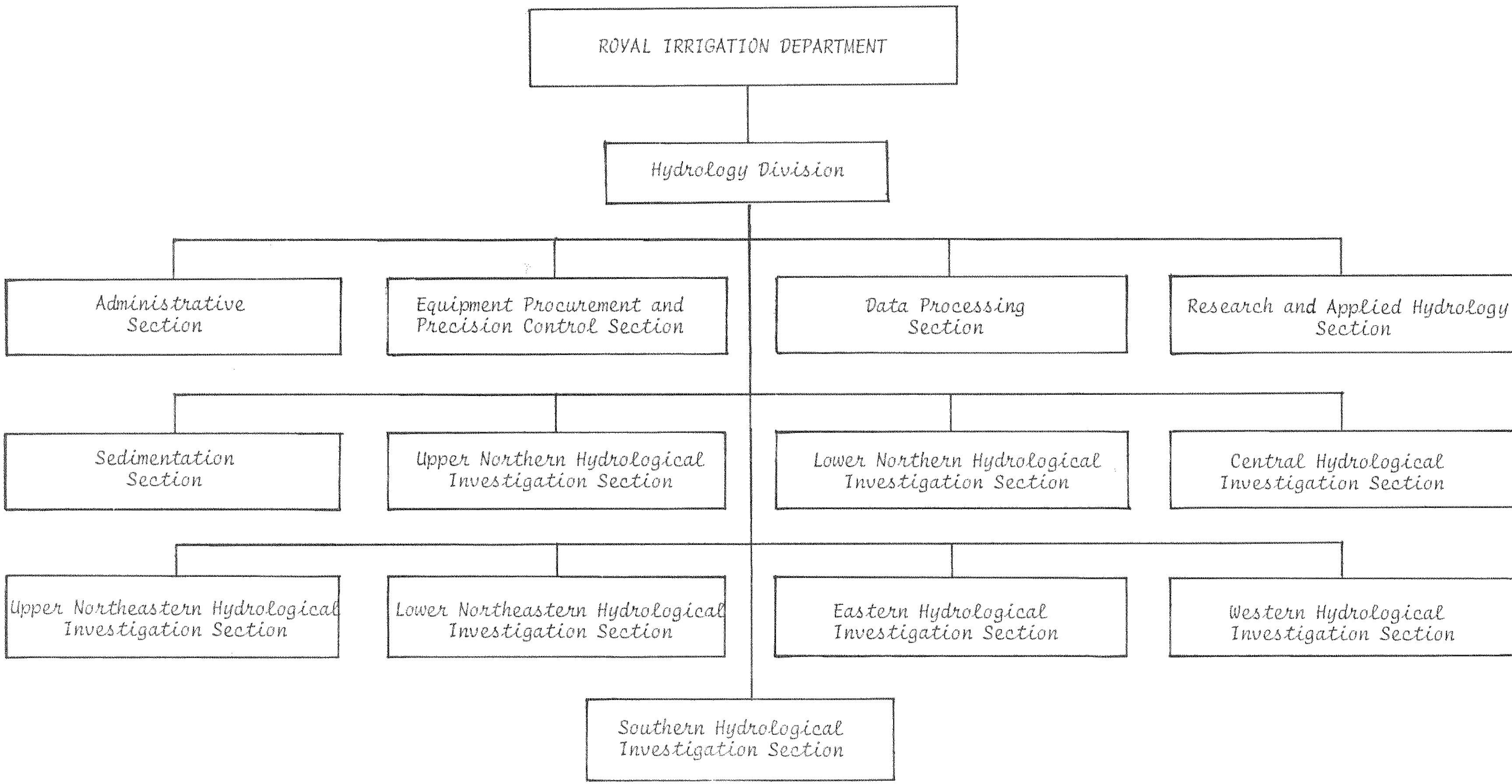
The Royal Irrigation Department (RID) has developed data system which includes computerization of storage, processing and retrieval of rainfall data since 1969. During the streamflow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement with the Asian Institute of Technology (AIT) to study on "Development of Water Resources Information System for Thailand". In the contract AIT will recommend a standardized procedure to various agencies for collecting and recording hydrometeorological and hydrological data and develop a computer based data storage and retrieval system to process, store, analyse and publish the data furnished by various agencies involved in data collection.

The Water Resources Information System for Thailand (WRIST) package has been designed to provide permanent computer media storage of hydrometeorological and hydrological data in such a form that it can be readily added to, altered or deleted and also called for analysis and presentation as required. The Indexed Sequencial Method has been used for mass storage of the data and the processing and storing system have been designed taking into consideration the data processing schemes followed by the agencies, the probable frequency of retrieval expected and also the order or grouping of data elements differently for different agencies so that the system is best suited and efficient in operation for the current requirements and anticipated uses by the agencies in Thailand. The system will process and store data agencywise. The system is also designed to allow for the inclusion of additional data types if the need arise in the future. IBM 370/145 Computer facility at the AIT Bangkok will be used to develop the WRIST package. Operating programs will be written in ANS COBOL language independent of machine hardware to facilitate machine to machine transferability of the package for medium scale computers. The system has the data retrieval facility in the form of monthly and yearly publication agencywise; raw data and analysed data either in the form of computer printouts or in the direct accessible forms like cards of tapes controlled by basin, sub-basin, region, station and data type. Data stored can also be available in the form of punched cards or punched card image on magnetic tapes so that they can be accessed by FORTRAN programs.

Organization

Streamflow data presented herein are from the hydrologic network operating by the Hydrology Division of the Royal Irrigation Department (RID). Field data collection and office data processing as well as yearbook publication are hydrologic activities undertaken by the Division.

The organization structure of the Division is diagrammatically shown below:-


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

PARTICIPATION IN STREAM GAGING WORKS

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Among 22 water related government agencies, several of them operate streamflow gaging works according to their own purposes. In early 1949 the Hydrology Section was established in the Survey Division of the Royal Irrigation Department. The Section is responsible for its activity in hydrology as prerequisite for water resources development. The activity includes:

(1) Procurement of basic hydrologic data including precipitation, streamflow, sediment, evaporation, etc.

(2) Analyses and research to produce the facts governing the behavior of water, their occurrences, circulation and distribution in its varied forms, their properties and their interaction with other allied factors.

(3) Application to water resources development and management, utilizing basic data and the facts disclosed by analyses and research.

Just one year after the beginning of water storage work, in 1953 there were only 49 discharge stations and 114 stage stations as operated by the Hydrology Section. In February 1975 the Section was separated from the Survey Division and was raised the status to be the Hydrology Division of the Royal Irrigation Department. The present network of stream gaging works contains 221 discharge stations of which 147 are currently operated and 74 are previously calibrated with continuous stage observation while 145 were abandoned, and 315 stage stations are currently operated while 232 were abandoned.

After the onset of the Lower Mekong River Basin Development Scheme, the Hydrology Section was also established in the Investigation and Planning Division of the National Energy Administration which is a representative agency of Thai Government in the Lower Mekong Committee. During the period of November 1958 - May 1962, seven hydrologic stations were installed and operated by the Harza Engineering Company contracted by the Agency for International Development of the United States Government. At present the NEA operates about 90 discharge stations and 140 stage stations. A series of yearbooks has also been published.

The third agency which operates the stream gaging works is the Hydrometeorology Division of the Meteorological Department. With the technical and financial support from the World Meteorological Organization, this agency began the stream gaging works in 1967. Up till now, about 11 discharge stations and 32 stage stations are under operation. The stream gaging data are also included in their yearbook.

The last agency which operates the stream gaging works for the planning purpose is the Electricity Generating Authority of Thailand. They began to operate 15 discharge stations and 4 stage stations in 1971.

In addition, there are other agencies operating the stream gaging works for their own purposes such as watershed management and conservation program of the Royal Forestry Department. The Port Authority of Thailand carries on discharge measurement along the estuary of the Chao Phraya River for studying the sedimentation in the vicinity of the service area.

UNITS OF MEASURE AND CONVERSION FACTORS

The following factors may be used to convert the metric and Thai units published herein to the English units.

Multiply metric or Thai units	By	To obtain English units
	Length	
millimeters (mm)	.03973	inches (in)
meters (m)	39.37	inches (in)
	3.2808	feet (ft)
	1.0936	yards (yd)
	.1988	rods
kilometers (km)	.6214	miles (mi)
	Area	
square meters (m^2)	10.76	square feet (ft^2)
	1.196	square yards (yd^2)
	2.47×10^{-4}	acres
rai (1,600 m^2-Thai)	.3952	acres
hectares (ha)	2.4709	acres
square hectometers (hm^2)	2.4709	acres
square kilometers (km^2)	247.1	acres
	.3861	square miles (mi^2)
	Volume	
liters (l)	.2642	gallons (gal)
cubic decimeters (dm^3)	.2642	gallons (gal)
	.03531	cubic feet (ft^3)
cubic meters (m^3)	264.2	gallons (gal)
	2.642×10^{-4}	million gallons (10^6 gal)
	35.31	cubic feet (ft^3)
	4.086×10^{-4}	cfs-day (ft^3/s-day)
	8.11×10^{-4}	acre-feet (acre-ft)
cubic hectometers (hm^3)	264.2	million gallons (10^6 gal)
	408.6	cfs-day (ft^3/s-day)
	811	acre-feet (acre-ft)
million cubic meters (mcm)	811	acre-feet (acre-ft)
cubic kilometers (km^3)	811×10^3	acre-feet (acre-ft)
	Flow	
liters per second (l/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3/s)	.03531	cubic feet per second (ft^3/s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day(mgd)

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

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Stream Gaging Data

Water Year 1971

PING RIVER BASIN

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

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

Drainage Area: 6,355 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: On left bank near automatic gage building.
Elevation: + 305.310 m. (M.S.L.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours from April 1971 - May 12, 1971. Recording from May 13,1971 - March 31, 1972.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 24 hourly readings.

Period of Available Gage Records: 1921 to date.

Rating Operation:

Period of Rating: 1954-1960, 1967 to date.
Rated by Float: 1936-1938
Rated by Current Meter: 1954-1960, 1967 to date.

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

Overbank Flow Conditions: No overbank flow.

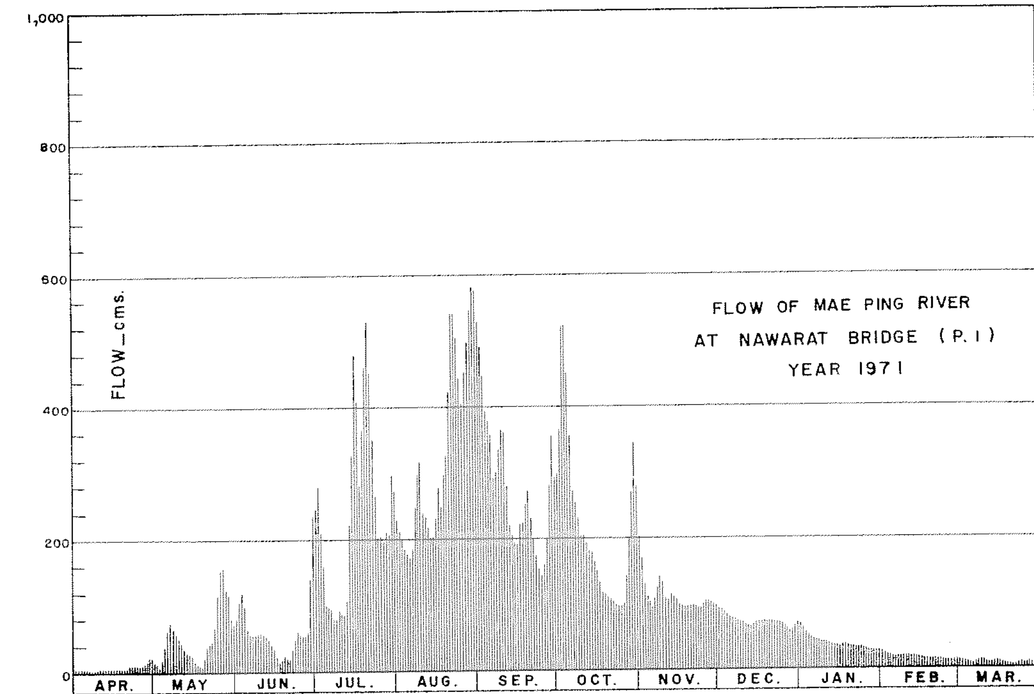
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Upstream State diversions for irrigation of about 11,200 hectares at Mae Faek Weir. No adjustment made for virgin flow.

Remarks: Since November 8, 1971 - March 31, 1972 flow was effected by the local weir at about 1 kilometer downstream.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	300.67	300.86	301.67	302.58	302.56	304.26	302.64	302.36	301.83	301.70	301.34	301.00
2	.66	.77	.85	.80	.39	303.88	303.23	.08	.83	.68	.31	.00
3	.64	.70	.90	.54	.30	.64	304.14	301.98	.82	.61	.28	.00
4	.63	.91	.73	.06	.18	.47	.15	.91	.81	.60	.27	300.99
5	.63	301.32	.57	301.82	.15	.40	303.57	.88	.80	.58	.23	.93
6	300.63	301.65	301.47	301.78	302.06	303.27	303.04	301.86	301.79	301.56	301.21	300.91
7	.63	.60	.43	.78	.16	.04	302.74	.84	.79	.54	.21	.91
8	.63	.54	.44	.69	.50	302.85	.74	.91	.76	.52	.20	.91
9	.64	.48	.45	.62	.90	303.04	.57	.96	.76	.52	.20	.94
10	.66	.42	.48	.71	.99	.28	.37	.94	.74	.51	.19	301.01
11	300.66	301.32	301.47	301.75	302.54	303.26	302.28	301.90	301.73	301.50	301.18	301.00
12	.66	.22	.45	.69	.52	302.85	.30	.87	.72	.49	.18	300.97
13	.67	.10	.38	.72	.45	.56	.19	.90	.71	.49	.19	.93
14	.67	.07	.28	302.44	.33	.34	.14	.89	.71	.46	.17	.91
15	.68	.05	.19	303.43	.26	.23	.14	.88	.74	.45	.16	.95
16	300.68	300.87	300.98	303.41	302.31	302.22	302.03	301.88	301.75	301.43	301.15	301.02
17	.67	.82	.88	.59	.77	.41	301.95	.84	.75	.45	.13	300.93
18	.57	.81	.89	302.78	.56	.43	.92	.84	.75	.48	.13	.88
19	.67	.78	301.04	303.22	.75	.54	.90	.85	.75	.46	.12	.87
20	.72	.93	.00	304.11	303.08	.72	.89	.85	.75	.44	.11	.92
21	300.80	301.18	300.94	304.19	303.65	302.67	301.87	301.85	301.75	301.43	301.10	300.91
22	.81	.25	.98	303.65	304.25	.32	.85	.85	.75	.42	.09	.91
23	.79	.31	301.25	302.92	.25	.14	.83	.85	.75	.43	.09	.89
24	.79	.63	.50	.45	.01	.05	.81	.83	.75	.42	.09	.89
25	.80	.91	.50	.29	303.66	301.97	.79	.85	.72	.40	.08	.96
26	300.83	301.98	301.46	302.31	303.51	301.96	301.80	301.87	301.70	301.40	301.07	300.91
27	.88	.99	.41	.23	.68	302.02	.88	.87	.67	.39	.06	.93
28	.96	.91	.50	.34	.93	.57	302.16	.87	.65	.34	.04	301.00
29	301.05	.88	.84	.29	304.25	303.21	.45	.86	.67	.34	.03	300.92
30	300.96	.68	302.49	.52	.46	.02	303.15	.85	.70	.36	-	.85
31	-	.59	-	.89	.42	-	302.74	-	.74	.36	-	.87
Mean	300.73	301.31	301.41	301.55	303.03	302.79	302.43	301.90	301.75	301.47	301.16	300.94
Max.	301.05	301.99	302.49	304.19	304.46	304.26	304.15	302.36	301.83	301.70	301.34	301.00
Min.	300.63	300.70	300.88	301.62	302.06	301.96	301.79	301.83	301.65	301.34	301.03	300.85

WATER YEAR 1971 : Max. 304.46 m. Min. 300.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.10	13	79	248	245	543	257	215	92	67	29	12
2	3.80	8.50	108	283	219	471	356	172	92	64	28	12
3	3.20	5.00	119	241	205	428	521	151	89	54	25	12
4	2.90	16	87	169	187	398	522	120	85	53	24	12
5	2.90	45	67	102	182	385	416	109	82	51	22	9.20
6	2.90	76	57	95	169	363	324	102	80	49	21	8.40
7	2.90	70	54	95	184	324	273	96	80	46	21	8.40
8	2.90	64	55	82	235	291	273	120	76	44	20	8.40
9	3.20	58	55	73	300	324	246	142	76	44	20	9.60
10	3.80	53	58	84	315	365	216	134	73	43	20	12
11	3.80	45	57	90	241	361	202	116	71	42	19	12
12	3.80	37	55	82	238	291	205	106	70	41	19	11
13	4.10	28	49	86	227	245	188	116	68	41	20	9.20
14	4.10	26	41	226	209	211	181	113	68	38	19	8.40
15	4.40	24	35	390	199	194	181	109	73	37	18	10
16	4.40	13	20	478	206	193	164	109	74	36	18	13
17	4.10	11	14	419	278	221	139	96	74	36	17	9.20
18	4.10	10	14	280	245	224	127	96	74	40	17	7.40
19	4.10	9.00	24	354	275	241	119	99	74	38	17	7.10
20	6.00	17	21	515	331	270	117	99	74	35	14	8.80
21	10	35	17	530	430	262	113	99	74	36	16	8.40
22	10	39	28	430	541	208	108	99	74	35	16	8.40
23	9.50	44	39	303	541	181	104	99	74	36	16	7.70
24	9.50	74	60	227	496	167	100	92	74	35	16	7.70
25	10	123	60	203	432	148	96	99	70	33	15	10
26	11	152	56	206	405	144	98	106	67	33	15	8.40
27	14	156	52	194	435	163	115	105	63	32	14	9.20
28	19	123	60	211	481	246	184	106	60	29	14	12
29	24	115	106	203	541	353	227	102	63	29	13	8.80
30	19	80	233	238	582	320	342	99	67	30	–	6.50
31	–	69	–	298	574	–	273	–	73	30	–	7.10
Total	211.50	1,638.50	1,780	7,435	10,148	8,535	6,787	3,427	2,304	1,257	543	294.30
Mean	7.05	52.8	59.3	240	327	284	219	114	743	40.5	18.7	9.49
Max.	24	156	233	530	582	543	522	215	92	67	29	13
Min.	2.90	5.00	14	73	169	144	96	92	60	29	13	6.50
Runoff - mcm.	18.274	141.566	153.792	642.384	876.787	737.424	586.397	296.093	199.066	108.605	46.915	25.427

WATER YEAR 1971 : Max. 582 Min. 2.90 Mean 121 Annual Runoff 3,832.730 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.30	12.00	304.46	582				

PING RIVER BASIN

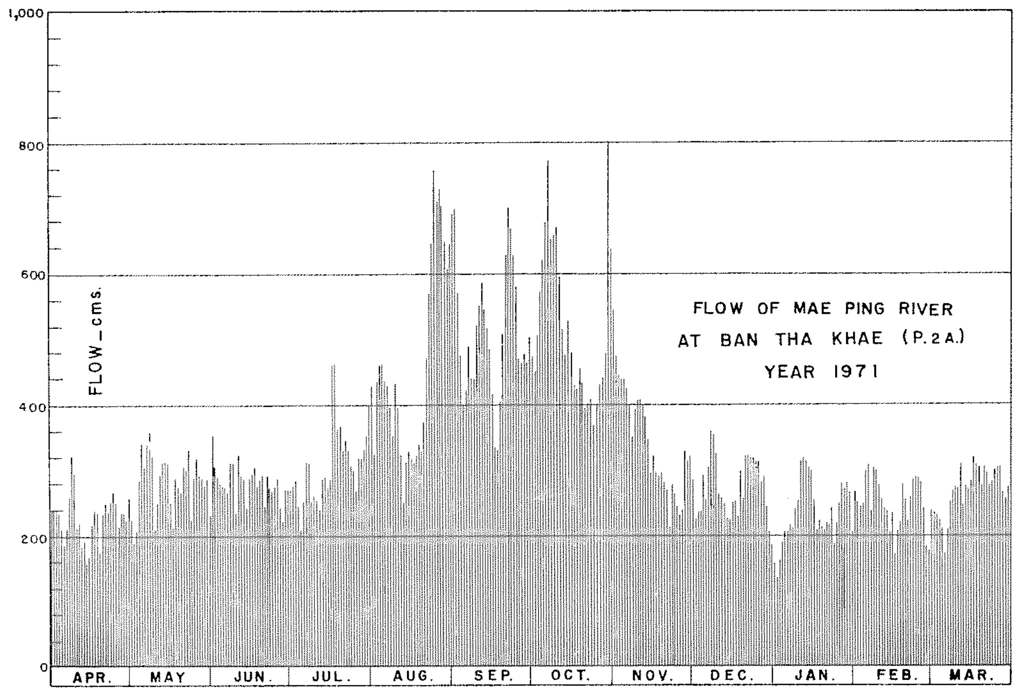
Mae Ping River at Ban Tha Khae, Tak (P. 2A)

Location:	Lat. 16°-51'-14" N., Long. 99°-07'-50" E., on right bank about 200 meters downstream from Kittikhachon I bridge, Ban Tha Khae, Amphoe Muang, Tak.
Drainage Area:	38,862 sq.km.
Type of Gage:	Water-Stage recorder.
Zero Gage at Bottom at:	+ 104.00 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Near automatic gage building.
Elevation:	+ 115.321 m. (M.S.L.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1952 to date.
Rating Operation:	
Period of Rating:	1952-1960, 1963-1967, 1971 to date.
Rated by Float:	-
Rated by Current Meter:	1952-1960, 1963-1967, 1971 to date.
Stability of Channel Regimes:	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 1971. Flow regulated by Bhumiphol Dam reservoir since 1964. Upstream State diversions for irrigation of about 40,300 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	105.38	105.37	105.65	105.46	105.80	106.29	105.88	105.89	105.44	105.15	105.45	105.38
2	.38	.22	.54	.47	.63	.18	.84	.89	.34	.08	.41	.36
3	.37	.46	.50	.49	.81	.05	106.04	.83	.37	.14	.39	.36
4	.31	.62	.48	.41	.86	105.83	.12	.82	.38	.27	.41	.34
5	.23	.62	.47	.30	.86	.74	.19	.82	.51	.29	.53	.30
6	105.32	105.54	105.47	105.47	105.81	105.81	106.31	105.77	105.42	105.29	105.55	105.19
7	.52	.60	.41	.56	.80	.91	.41	.71	.54	.32	.37	.34
8	.58	.66	.56	.55	.72	.82	.21	.65	.66	.31	.54	.42
9	.49	.59	.55	.41	.65	.82	.22	.75	.65	.39	.53	.45
10	.30	.30	.37	.43	.81	.98	.24	.76	.58	.42	.46	.47
11	105.33	105.41	105.58	105.41	105.73	106.03	106.11	105.76	105.44	105.56	105.43	105.46
12	.18	.52	.50	.38	.56	.09	.00	.74	.42	.57	.39	.55
13	.25	.56	.50	.50	.42	105.97	105.89	.69	.39	.56	.38	.40
14	.12	.56	.39	.51	.56	.96	.99	.63	.34	.54	.30	.47
15	.26	.56	.50	.47	.59	.87	.90	.52	.34	.53	.37	.46
16	105.33	105.49	105.51	105.50	105.57	105.77	105.88	105.58	105.41	105.42	105.19	105.52
17	.38	.29	.54	.86	.56	.60	.80	.52	.42	.29	.30	.57
18	.37	.50	.44	.86	.58	.60	.79	.51	.36	.34	.33	.55
19	.21	.47	.49	.67	.62	.77	.85	.52	.53	.31	.48	.54
20	.37	.45	.51	.68	.59	106.15	.80	.49	.42	.30	.42	.47
21	105.41	105.54	105.40	105.60	105.74	106.25	105.73	105.44	105.58	105.33	105.34	105.54
22	.37	.53	.51	.63	.99	.29	.75	.31	.58	.32	.47	.52
23	.42	.60	.44	.60	106.10	.21	.76	.48	.57	.39	.50	.48
24	.45	.35	.46	.54	.26	.16	.68	.44	.57	.24	.51	.49
25	.41	.56	.47	.53	.39	.06	.73	.38	.56	.38	.50	.48
26	105.31	105.57	105.50	105.45	106.31	105.87	105.81	105.36	105.56	105.45	105.48	105.54
27	.37	.51	.40	.57	.34	.87	.83	.38	.49	.48	.32	.29
28	.37	.50	.33	.57	.27	.89	.82	.59	.51	.46	.22	.43
29	.34	.47	.46	.60	.16	.85	.99	.56	.39	.49	.21	.40
30	.43	.50	.46	.65	.13	.94	106.46	.58	.29	.45	-	.46
31	-	.35	-	.76	.27	-	.09	-	.24	.29	-	.49
Mean	105.35	105.49	105.48	105.54	105.85	105.92	105.97	105.61	105.46	105.37	105.40	105.44
Max.	105.58	105.66	105.65	105.86	106.39	106.29	106.46	105.89	105.66	105.57	105.55	105.57
Min.	105.12	105.22	105.33	105.30	105.42	105.60	105.68	105.31	105.24	105.08	105.19	105.19

WATER YEAR 1971 : Max. 106.46 m. Min. 105.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	238	235	353	270	428	698	470	475	262	157	266	238
2	238	181	304	274	344	635	449	475	223	134	250	231
3	235	270	286	282	433	562	556	444	235	154	242	231
4	212	339	278	250	459	444	601	438	238	198	250	223
5	184	339	274	208	459	397	640	438	290	205	299	208
6	216	304	274	266	433	433	710	412	254	205	308	171
7	295	330	250	312	428	485	770	381	304	216	235	223
8	321	358	312	308	386	438	652	353	358	212	304	254
9	282	326	308	250	353	438	658	402	353	242	299	266
10	208	208	235	258	433	523	669	407	321	254	270	274
11	219	250	321	250	392	551	596	407	262	312	258	270
12	167	295	286	238	312	584	534	397	254	318	242	308
13	191	312	286	286	252	518	475	371	242	312	238	246
14	147	312	242	290	312	512	529	344	223	304	208	274
15	194	312	286	274	326	464	480	295	223	299	235	270
16	219	282	290	286	317	412	470	321	250	254	171	295
17	238	205	304	459	312	330	428	295	254	205	208	317
18	235	286	262	459	321	330	423	290	231	223	219	308
19	177	274	282	362	339	412	454	295	299	212	278	304
20	235	266	290	367	326	618	428	282	254	208	254	274
21	250	304	246	330	397	675	392	262	321	219	223	304
22	237	299	290	344	529	698	402	212	321	216	274	295
23	254	330	262	330	590	652	407	278	317	242	286	278
24	266	227	270	304	681	624	367	262	317	188	290	282
25	250	312	274	299	756	568	392	238	312	238	286	278
26	212	317	286	266	710	464	433	231	312	266	278	304
27	235	290	246	317	727	464	444	238	282	278	216	205
28	235	286	219	317	687	475	438	326	290	270	181	258
29	223	274	270	330	624	454	529	312	242	282	177	246
30	258	286	270	353	607	502	799	321	205	266	–	270
31	–	227	–	407	687	–	584	–	188	205	–	282
Total	6,871	8,836	8,356	9,546	14,360	15,360	16,179	10,202	8,437	7,294	7,245	8,187
Mean	229	285	278	308	463	512	522	340	272	235	250	264
Max.	321	358	353	459	756	698	799	475	358	318	308	317
Min.	147	181	219	208	252	330	367	212	188	134	171	171
Runoff - MCM.	593.654	763.430	721.958	824.774	1,240.704	1,327.104	1,397.866	881.453	728.957	630.202	625.968	707.357

WATER YEAR 1971 : Max. 799 Min. 134 Mean 331 Annual Runoff 10,443.427 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.30	10.00	106.64	904				

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 right bank at highway bridge, 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: Near the gage observer's house.
Elevation: + 336.934 m. (M.S.L.)

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

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

Period of Available Gage Records: 1955 to date.

Rating Operation:

Period of Rating: 1955-1960, 1967, 1969 to date.
Rated by Float: –
Rated by Current Meter: 1955-1960, 1967, 1969 to date.

Stability of Channel Regimes: Fairly Stable by some silting, no shifting adjustment for flow computation.

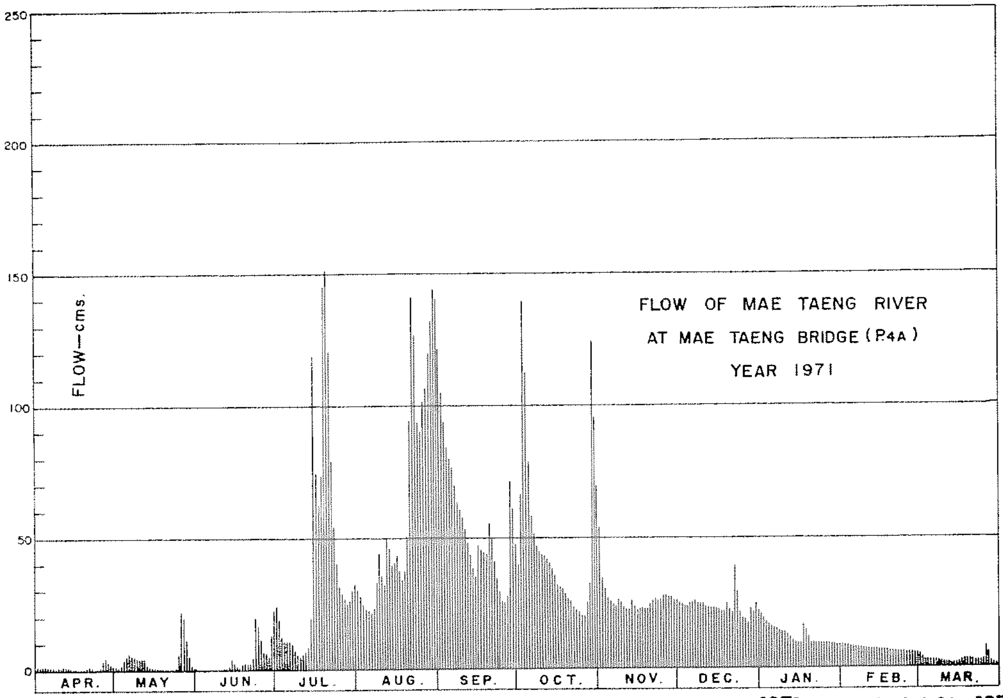
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage discharge relationship used is defined by discharge measurement made during 1971. Upstream State diversions for irrigation of about 23,700 hectares at Mae Taeng Weir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.29	334.24	334.19	335.02	335.11	336.28	335.30	335.37	335.04	334.95	334.66	334.51
2	.28	.22	.18	334.84	.06	.18	.69	.20	.03	.93	.66	.39
3	.27	.22	.17	.74	.01	.08	336.56	.12	.02	.88	.66	.38
4	.26	.44	.16	.72	334.96	335.96	.14	.08	.01	.83	.65	.39
5	.24	.51	.15	.70	.96	.87	335.83	.06	.03	.82	.64	.39
6	334.23	334.58	334.14	334.71	334.95	335.84	335.58	335.03	335.04	334.80	334.64	334.40
7	.22	.54	.13	.69	.96	.70	.49	.01	.05	.79	.63	.39
8	.21	.52	.12	.56	335.21	.66	.41	.06	.03	.78	.62	.38
9	.22	.46	.11	.52	.38	.70	.37	.02	.03	.78	.62	.37
10	.22	.45	.10	.50	.23	.58	.36	334.99	.03	.77	.62	.35
11	334.23	334.48	334.09	334.53	335.18	335.47	335.35	334.99	335.01	334.76	334.61	334.34
12	.23	.45	.17	.60	.50	.41	.32	.98	.00	.74	.61	.32
13	.23	.27	.31	.67	.41	.32	.31	335.06	334.99	.72	.61	.32
14	.22	.22	.45	.89	.29	.26	.27	.01	.98	.70	.60	.31
15	.21	.20	.33	336.36	.33	.22	.22	334.97	.98	.69	.60	.30
16	334.20	334.19	334.27	335.93	335.35	335.42	335.15	335.00	334.98	334.68	334.60	334.35
17	.19	.19	.22	.46	.24	.39	.15	.00	.97	.64	.60	.41
18	.19	.19	.36	.78	.20	.37	.14	.00	.97	.77	.59	.40
19	.19	.18	.33	336.61	.31	.37	.10	.00	335.04	.71	.59	.42
20	.21	.21	.35	.68	.54	.55	.06	.04	334.98	.69	.59	.44
21	334.30	334.19	334.36	336.49	336.20	335.42	335.05	335.06	334.97	334.69	334.58	334.38
22	.23	.18	.50	335.62	.58	.30	.00	.07	335.30	.69	.58	.34
23	.17	.17	.92	.48	.37	.21	334.99	.06	.04	.68	.57	.34
24	.12	.24	.83	.24	.05	.12	.96	.08	334.95	.69	.57	.35
25	.10	.60	.70	.16	.02	.06	.95	.09	.91	.68	.56	.39
26	334.44	334.96	334.58	335.10	336.18	335.03	334.93	335.09	334.90	334.68	334.55	334.63
27	.48	.90	.56	.07	.20	.09	335.22	.07	.88	.68	.54	.52
28	.36	.68	.50	.04	.39	.77	.34	.07	335.00	.68	.53	.37
29	.34	.46	.86	.08	.51	.59	336.41	.06	334.97	.67	.52	.37
30	.29	.27	.98	.15	.61	.41	335.97	.06	335.04	.66	–	.37
31	–	.20	–	.17	.57	–	.61	–	334.96	.66	–	.37
Mean	334.24	334.37	334.37	335.20	335.61	335.52	335.43	335.06	335.00	334.74	334.60	334.39
Max.	334.48	334.96	334.98	336.68	336.61	336.28	336.56	335.37	335.30	334.95	334.66	334.63
Min.	334.10	334.17	334.09	334.50	334.95	335.03	334.93	334.97	334.88	334.66	334.52	334.30

WATER YEAR 1971 : Max. 336.68 m. Min. 334.09 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.70	1.20	0.75	24	29	112	39	44	25	21	9.00	5.04
2	1.60	1.00	0.70	17	25	103	65	34	25	20	9.00	3.15
3	1.50	1.00	0.65	12	24	95	139	29	24	18	9.00	3.00
4	1.40	3.90	0.60	11	22	84	100	27	24	16	8.70	3.15
5	1.20	5.04	0.55	10	22	78	75	26	25	16	8.40	3.15
6	1.10	6.72	0.50	11	21	76	57	25	25	15	8.40	3.30
7	1.00	5.76	0.45	10	22	66	51	24	26	15	8.10	3.15
8	0.90	5.28	0.40	6.24	34	63	46	26	25	14	7.80	3.00
9	1.00	4.20	0.35	5.28	44	66	44	25	25	14	7.80	2.85
10	1.00	4.05	0.30	4.80	35	57	43	23	25	14	7.80	2.55
11	1.10	4.50	0.27	5.52	32	50	43	23	24	13	7.50	2.40
12	1.10	4.05	0.65	7.20	50	46	41	23	23	12	7.50	2.10
13	1.10	1.50	1.95	9.30	46	41	40	26	23	11	7.50	2.10
14	1.00	1.00	4.05	19	39	37	38	24	23	10	7.20	1.95
15	0.90	0.80	2.25	119	41	35	35	22	23	10	7.20	1.80
16	0.80	0.75	1.50	83	43	47	31	23	23	10	7.20	2.55
17	0.75	0.75	1.00	61	36	45	31	23	22	17	7.20	3.45
18	0.75	0.75	2.70	71	34	44	30	23	22	14	6.96	3.30
19	0.75	0.70	2.25	144	40	44	28	23	25	11	6.96	3.60
20	0.90	0.90	2.55	151	55	55	26	25	23	10	6.96	3.90
21	1.80	0.75	2.70	131	105	47	26	26	22	10	6.72	3.00
22	1.10	0.70	4.80	60	141	39	23	27	39	10	6.72	2.40
23	0.65	0.65	20	51	120	34	23	26	25	10	6.48	2.40
24	0.40	1.20	16	36	92	29	22	27	21	10	6.48	2.55
25	0.30	7.20	10	31	90	26	21	28	19	10	6.24	3.15
26	3.90	22	6.72	28	102	25	20	28	19	10	6.00	8.10
27	4.50	19	6.24	27	105	28	35	27	18	10	5.76	5.28
28	2.70	10	4.80	25	122	71	42	27	23	10	5.52	2.85
29	2.40	4.20	17	27	133	58	124	26	22	9.30	5.28	2.85
30	1.70	1.50	23	31	144	46	86	26	25	9.00	–	2.85
31	–	0.80	–	32	140	–	59	–	22	9.00	–	2.85
Total	41.00	121.85	135.68	1,260.34	1,989	1,647	1,483	786	735	388.30	211.38	97.77
Mean	1.37	3.74	4.52	40.6	64.2	54.9	47.8	26.2	23.7	12.5	7.29	3.15
Max.	4.50	22	23	151	144	112	139	44	39	21	9.00	8.10
Min.	0.30	0.65	0.27	4.80	21	25	20	22	18	9.00	5.28	1.80
Runoff – mcm.	3.542	10.528	11.723	108.893	171.850	142.301	128.131	67.910	63.504	33.549	18.263	8.447

WATER YEAR 1971 : Max. 151 Min. 0.27 Mean 24.3 Annual Runoff 768.642 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.20,71	15.00	336.71	155				

PING RIVER BASIN

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

Location: Lat. 18°-34'-32" N., Long. 99°-00'-44" E., on left bank at Tha Sing Phitak Bridge, Amphoe Muang, Lumphun.

Drainage Area: 1,569 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 289.300 m. (M.S.L.)

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

Location: about 40 meters upstream from the bridge.
Elevation: + 295.680 m. (M.S.L.)

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

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

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1954-1960, 1967 to date.
Rated by Float:
Rated by Current Meter: 1954-1960, 1967 to date.

Stability of Channel Regimes: 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 1971. Upstream State diversions for irrigation of about 9,600 hectares at Mae Kuang Weir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.37	289.31	290.58	292.35	291.47	294.88	291.53	290.81	289.98	289.77	289.64	289.57
2	.40	.31	.88	.57	.46	.69	292.36	.68	.97	.76	.71	.57
3	.37	.33	.56	.33	.16	.47	.96	.55	.95	.70	.65	.59
4	.36	.34	.36	291.58	290.97	.23	293.12	.48	.92	.67	.62	.58
5	.36	.32	.16	.16	.77	293.90	.33	.45	.90	.65	.66	.57
6	289.40	289.65	290.00	290.81	290.67	293.56	293.53	290.35	289.90	289.59	289.66	289.58
7	.38	.72	289.85	.62	.88	.04	.26	.34	.87	.57	.65	.58
8	.37	.80	.81	.49	291.32	292.26	.13	.39	.87	.58	.60	.59
9	.40	.90	290.07	.43	.55	.76	292.62	.56	.85	.57	.58	.58
10	.37	.80	.35	.47	.34	293.39	291.95	.92	.85	.56	.62	.56
11	289.38	289.70	290.25	290.45	291.26	293.58	291.58	291.06	289.88	289.56	289.65	289.55
12	.37	.70	.13	.27	.15	.22	.42	290.96	.85	.59	.62	.52
13	.39	.67	289.98	.39	.05	292.43	.19	.88	.86	.52	.62	.54
14	.38	.61	.80	291.58	290.93	291.66	.01	.79	.87	.53	.63	.55
15	.38	.56	.74	293.29	.87	.24	290.86	.70	.90	.52	.63	.53
16	289.36	289.58	289.66	294.03	290.88	290.98	290.72	290.61	289.82	289.57	289.61	289.55
17	.41	.55	.57	.03	291.68	.83	.61	.57	.83	.58	.63	.62
18	.39	.57	.54	293.72	.55	291.06	.48	.51	.80	.61	.62	.58
19	.57	.60	.50	.64	.51	.39	.41	.44	.80	.61	.61	.52
20	.65	.53	.47	.68	292.12	.41	.36	.40	.78	.58	.60	.53
21	289.82	289.52	289.43	293.61	292.58	291.35	290.33	290.32	289.78	289.54	289.61	289.47
22	.71	.56	.42	.52	293.29	.18	.26	.21	.77	.56	.59	.47
23	.62	.87	.47	.43	.99	.00	.24	.20	.76	.57	.57	.46
24	.57	290.06	.62	292.91	294.17	290.87	.19	.17	.73	.55	.59	.42
25	.49	.51	.65	.47	.10	.75	.16	.14	.71	.53	.56	.38
26	289.42	291.13	289.63	292.67	294.02	290.66	290.15	290.12	289.64	289.52	289.54	289.37
27	.39	.44	.64	.28	.12	.70	.26	.05	.55	.53	.55	.36
28	.35	290.90	.66	291.85	.39	291.23	.39	.01	.53	.57	.54	.36
29	.34	.67	.87	.43	.60	.85	.60	289.99	.50	.61	.54	.44
30	.31	.47	291.39	.31	.84	.70	.85	.98	.59	.60	–	.41
31	–	.35	–	.33	.92	–	.84	–	.76	.59	–	.43
Mean	289.44	289.87	289.93	292.09	292.24	292.21	291.31	290.45	289.80	289.59	289.61	289.51
Max.	289.82	291.44	281.39	294.03	294.92	294.88	293.53	291.06	289.98	289.77	289.71	289.62
Min.	289.31	289.31	289.42	290.27	290.67	290.66	290.15	289.98	289.50	289.52	289.54	289.36

WATER YEAR 1971 : Max. 294.92 m. Min. 289.31 m.

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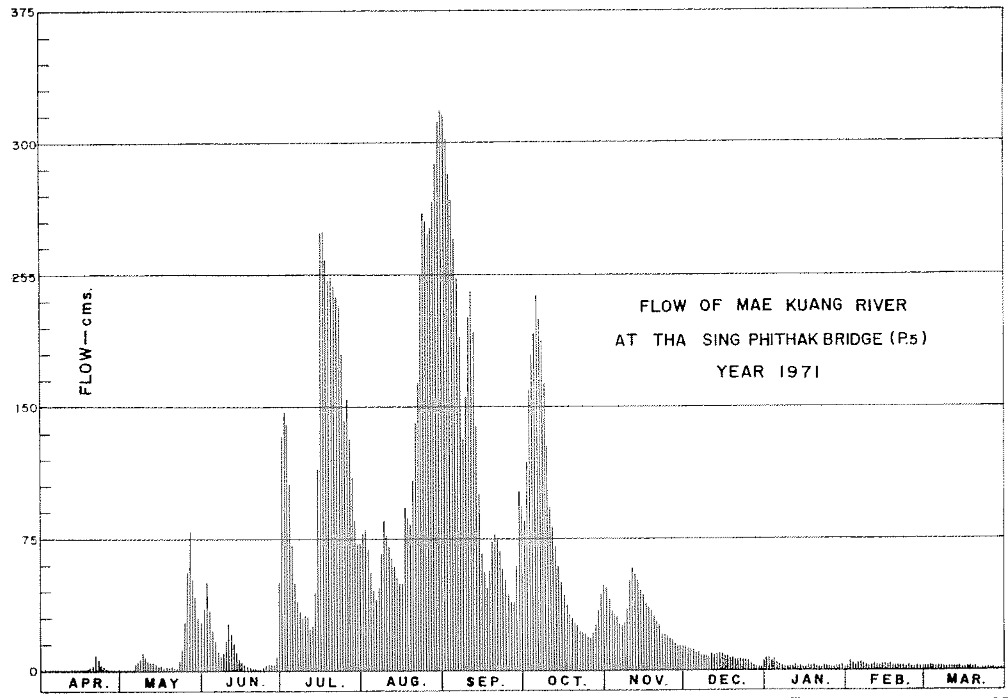


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.04	36	133	80	315	84	46	13	6.62	3.30	1.97
2	0.40	0.04	50	147	80	300	134	40	12	6.36	5.06	1.92
3	0.28	0.12	35	132	64	282	173	34	12	4.80	3.55	2.92
4	0.24	0.16	26	87	54	264	184	31	11	4.05	2.80	2.08
5	0.24	0.08	18	64	44	240	199	30	10	3.55	3.80	1.97
6	0.40	3.55	13	46	40	215	213	26	10	2.19	3.80	2.08
7	0.32	5.32	8.80	37	50	178	194	25	8.36	1.97	3.55	2.08
8	0.28	7.40	7.68	32	72	127	185	27	8.36	2.08	2.30	2.19
9	0.40	10	15	29	85	160	151	35	8.80	1.91	2.08	2.08
10	0.28	7.40	26	31	73	203	108	52	8.80	1.86	2.80	1.89
11	0.32	4.80	22	30	69	216	87	59	9.64	1.86	3.55	1.75
12	0.28	4.80	17	23	63	191	78	54	8.80	2.19	2.80	1.42
13	0.36	4.05	13	27	58	138	65	50	9.08	1.42	2.80	1.64
14	0.32	2.55	7.40	87	52	91	55	45	9.36	1.53	3.05	1.75
15	0.32	1.86	5.84	196	49	68	49	41	10	1.42	3.05	1.53
16	0.24	2.08	3.80	249	50	55	42	37	7.96	1.97	2.55	1.75
17	0.48	1.75	1.97	249	92	47	37	35	8.24	2.08	3.05	2.80
18	0.36	1.97	1.64	226	85	59	31	33	7.40	2.55	2.80	2.08
19	1.97	2.30	1.20	221	83	76	28	29	7.40	2.55	2.55	1.42
20	3.55	1.53	0.96	223	119	77	26	28	6.88	2.08	2.30	1.53
21	7.96	1.42	0.64	218	148	74	25	25	6.88	1.64	2.55	0.96
22	5.06	1.86	0.56	212	196	65	22	20	6.62	1.86	2.19	0.96
23	2.80	9.36	0.96	206	246	56	21	20	6.10	1.97	1.97	0.88
24	1.97	15	2.80	170	260	49	20	19	5.58	1.75	2.19	0.56
25	1.12	33	3.55	141	254	43	18	18	5.06	1.53	1.86	0.32
26	0.56	62	3.05	154	248	39	18	17	3.30	1.42	1.64	0.28
27	0.36	79	3.30	129	256	41	22	15	1.75	1.53	1.75	0.24
28	0.20	51	3.80	102	276	68	27	13	1.53	1.97	1.64	0.24
29	0.16	40	8.36	78	293	102	37	13	1.20	2.55	1.64	0.72
30	0.04	31	76	72	312	94	48	13	2.19	2.30	–	0.48
31	–	26	–	73	318	–	48	–	6.36	2.19	–	0.63
Total	31.55	411.44	413.31	3,824	4,169	3,933	2,429	930	233.55	7,575	78.97	45.12
Mean	1.05	13.3	13.8	123	134	131	78.3	31.0	7.53	2.44	2.72	1.45
Max.	7.96	79	76	249	318	315	213	59	13	6.62	5.06	2.80
Min.	0.04	0.04	0.56	23	40	39	18	13	1.20	1.42	1.64	0.24
Runoff – MCM.	2.726	35.548	35.709	330.394	360.202	339.811	209.866	80.352	20.179	6.545	6.823	3.898

WATER YEAR 1971 : Max. 318 Min. 0.04 Mean 45.3 Annual Runoff 1,432.053 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.30	18.00	294.93	319				

PING RIVER BASIN

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

Location: Lat. 16°-28'-38" N., Long. 99°-31'-06" E., on right bank about 100 meters upstream from Kamphaeng Phet Bridge, Ban Nakhon Chum, Amphoe Muang, Kamphaeng Phet.

Drainage Area: 42,700 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 72.000 m. (M.S.L.)

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

Location: Near the house of gage observer.
Elevation: + 77.642 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: 1960 to date.

Rating Operation:

Period of Rating: 1960-1961, 1967 to date.
Rated by Float:
Rated by Current Meter: 1960-1961, 1967 to date.

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

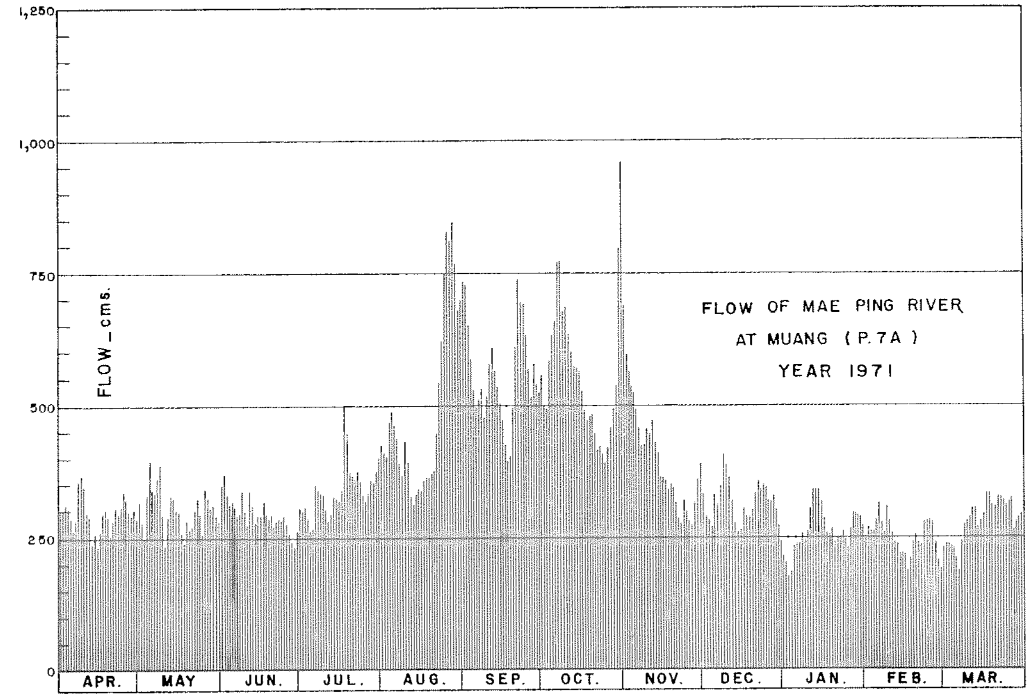
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.26	74.31	74.41	74.39	74.70	75.36	75.00	75.26	74.46	74.14	74.24	74.16
2	.26	.21	.57	.38	.65	.35	74.87	.12	.37	.05	.29	.19
3	.28	.09	.46	.38	.63	.23	.86	.02	.33	73.98	.28	.18
4	.27	.37	.43	.39	.79	.07	75.14	74.94	.32	74.06	.27	.18
5	.22	.50	.39	.25	.83	74.90	.22	.92	.26	.19	.33	.16
6	74.15	74.41	74.42	74.21	74.79	74.87	75.29	74.88	74.45	74.20	74.41	74.13
7	.26	.39	.36	.42	.74	.92	.44	.81	.42	.20	.29	.03
8	.41	.44	.31	.50	.66	.95	.44	.69	.58	.24	.26	.19
9	.43	.49	.48	.46	.55	.82	.25	.70	.64	.22	.40	.28
10	.33	.31	.37	.46	.66	.97	.27	.77	.59	.29	.34	.31
11	74.24	74.19	74.31	74.39	74.72	75.06	75.19	74.74	74.45	74.38	74.26	74.33
12	.22	.30	.47	.33	.56	.11	.12	.80	.40	.48	.21	.38
13	.08	.39	.40	.36	.43	.04	.04	.71	.32	.48	.20	.39
14	.14	.38	.36	.45	.41	74.98	.03	.66	.27	.48	.T4	.28
15	.07	.34	.31	.44	.49	.89	.02	.54	.26	.44	.14	.33
16	74.19	74.34	74.36	74.43	74.48	74.76	74.92	74.54	74.29	74.43	74.13	74.36
17	.25	.24	.37	.49	.52	.70	.89	.53	.36	.25	.03	.44
18	.27	.19	.42	.89	.55	.61	.79	.48	.33	.24	.11	.46
19	.24	.32	.30	.68	.55	.66	.82	.51	.36	.28	.22	.46
20	.13	.28	.36	.59	.56	75.13	.83	.49	.41	.20	.25	.39
21	74.26	74.29	74.35	74.55	74.58	75.32	74.73	74.43	74.46	74.20	74.20	74.40
22	.27	.39	.28	.53	.88	.37	.67	.32	.52	.24	.19	.44
23	.24	.39	.34	.57	75.12	.30	.69	.31	.49	.24	.31	.43
24	.31	.44	.33	.51	.29	.28	.67	.43	.50	.26	.32	.42
25	.35	.26	.35	.50	.49	.19	.61	.35	.49	.16	.33	.40
26	74.30	74.49	74.33	74.43	75.54	75.06	74.71	74.32	74.42	74.28	74.32	74.43
27	.24	.45	.28	.43	.53	74.91	.80	.30	.43	.36	.25	.34
28	.23	.40	.23	.53	.58	75.05	.87	.39	.44	.37	.09	.26
29	.26	.42	.18	.51	.40	74.97	.99	.50	.40	.35	.04	.32
30	.22	.37	.33	.56	.25	.93	75.53	.60	.27	.37	–	.32
31	–	.32	–	.63	.31	–	.79	–	.20	.28	–	.38
Mean	74.25	74.34	74.36	74.47	74.85	75.02	75.01	74.63	74.40	74.27	74.24	74.31
Max.	74.43	74.50	74.57	74.89	75.58	75.37	75.79	75.26	74.64	74.48	74.41	74.46
Min.	74.07	74.09	74.18	74.21	74.41	74.61	74.61	74.30	74.20	73.98	74.03	74.03

WATER YEAR 1971 : Max. 75.79 m. Min. 73.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	299	318	309	301	422	728	552	677	328	217	250	224
2	299	281	370	298	402	722	494	608	294	190	267	233
3	307	237	328	298	394	662	490	561	280	170	263	230
4	303	341	316	301	460	584	618	525	277	193	260	230
5	284	393	301	253	477	507	657	516	256	233	280	224
6	259	339	313	239	460	494	692	498	324	236	309	214
7	299	328	291	313	439	516	769	468	313	236	267	184
8	357	357	273	343	406	529	769	418	374	250	256	233
9	365	387	335	328	362	473	672	422	398	243	305	263
10	326	287	294	328	406	538	682	451	378	267	284	273
11	292	235	273	301	430	580	642	439	324	298	256	280
12	284	282	332	280	366	603	608	464	305	335	239	298
13	234	328	305	291	316	570	570	426	277	335	236	301
14	255	323	291	324	309	543	566	406	260	335	217	263
15	230	302	273	320	339	503	561	359	256	320	217	280
16	273	302	291	316	335	447	516	359	267	316	214	291
17	295	256	294	339	351	422	503	355	301	253	184	320
18	303	235	313	503	362	386	460	335	280	250	208	328
19	292	277	270	414	362	406	473	347	291	263	243	328
20	252	263	291	378	366	613	477	339	309	236	253	301
21	299	267	287	362	374	707	435	316	328	236	236	305
22	303	301	263	355	498	733	410	277	351	250	233	320
23	292	301	284	370	608	697	418	273	339	250	273	316
24	318	320	280	347	692	687	410	316	343	256	277	313
25	333	256	287	343	795	642	386	287	339	224	280	305
26	314	339	280	316	821	580	426	277	313	263	277	316
27	292	324	263	316	815	511	464	270	316	291	253	284
28	288	305	246	355	842	575	494	301	320	294	202	256
29	299	313	230	347	748	538	547	343	305	287	187	277
30	284	294	280	366	672	520	816	382	260	294	–	277
31	–	277	–	394	702	–	954	–	236	263	–	298
Total	8,830	9,368	8,763	10,339	15,331	17,016	17,531	12,015	9,542	8,084	7,226	8,565
Mean	294	302	292	333	494	567	565	400	308	261	249	276
Max.	365	393	370	503	842	733	954	677	398	335	309	328
Min.	230	235	230	239	309	386	386	270	236	170	184	184
Runoff - mcm.	762.912	809.395	757.123	893.290	1,324.598	1,470.182	1,514.678	1,038.096	824.429	698.458	624.326	740.016

WATER YEAR 1971 : Max. 954 Min. 170 Mean 362 Annual Runoff 11,457.504 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.30	24.00	76.03	1,092				

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

Location: Lat. 17^{0}–14'–30" N., Long. 99^{0}–00'–45" E., on right bank about 4 kilometers downstream from Bhumiphol Dam reservoir, at Wang Kra Chao, Amphoe Sam Ngao, Tak.

Drainage Area: 26,396 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 135.192 m. (M.S.L.)

Bench Mark: B.M. – H.S./R.I.D.

Location: about 25 meters north of the gage site.
Elevation: + 143.825 m. (M.S.L.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 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: Unstable, no shifting adjustment for flow computations.

Overbank Flow Conditions: No overbank flow.

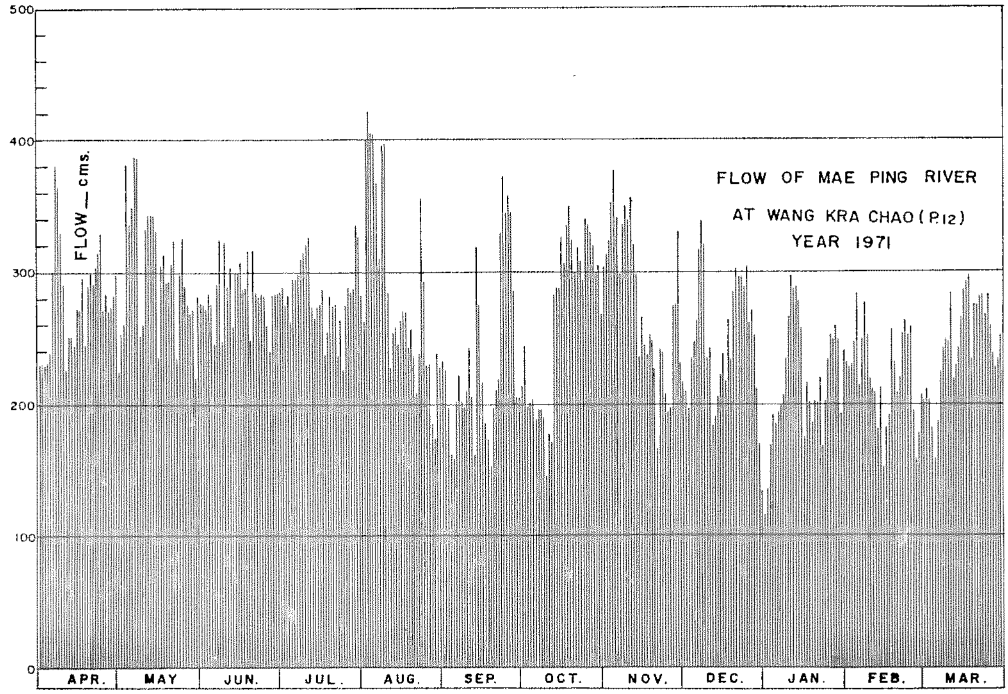
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 28,000 hectares at above gage site. No adjustment made for virgin flow.

Remarks: Zero gage at bottom at + 143.00 m. (M.S.L.) begin Septmeber 1, 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		135.60	135.84	135.88	135.81	135.67	135.58	135.96	135.57	134.98	135.65	135.52
2		.83	.84	.89	136.08	.62	.71	.98	.55	135.13	.63	.56
3		136.20	.82	.83	.29	.52	.50	136.03	.48	.36	.65	.52
4	135.66	.22	.87	.86	.36	.31	.52	.14	.69	.47	.78	.44
5	.72	.06	.84	.78	.30	.29	.53	.20	.73	.43	.87	.26
6	136.15	136.11	135.68	135.91	136.30	135.52	135.45	136.09	135.79	135.48	135.57	135.44
7	.22	.24	.90	.91	.18	.61	.49	135.90	136.00	136.51	.75	.62
8	.16	.24	136.02	.93	135.90	.52	.49	136.06	.07	.54	.84	.70
9	135.95	135.73	135.64	.97	136.27	.49	.46	.11	.00	.67	.75	.73
10	.84	.77	136.01	.99	.28	.57	.20	.07	135.66	.82	.60	.72
11	135.56	136.05	135.88	136.01	135.90	135.70	135.40	136.13	135.70	135.92	135.56	135.87
12	.74	.09	.94	136.03	.60	.42	.36	.01	.42	.88	.55	.59
13	.74	.09	.73	135.84	.75	.75	.86	135.93	.47	.89	.40	.65
14	.71	.09	.93	.79	.77	136.00	.89	.66	.54	.84	.57	.71
15	.83	136.00	.93	.84	.70	.78	.88	.80	.62	.76	.24	.82
16	135.82	135.64	135.96	135.84	135.79	135.57	136.03	135.73	135.68	135.38	135.42	135.88
17	.92	.94	.88	.88	.82	.45	135.95	.67	.56	.58	.45	.90
18	.67	.98	.89	.67	.81	.39	136.10	.74	.79	.51	.76	.92
19	.89	.90	.99	.74	.70	.24	.11	.73	.66	.43	.65	.66
20	.93	.91	.71	.86	.77	.49	135.96	.67	.90	.52	.54	.84
21	135.89	135.96	135.99	135.83	135.64	135.56	135.93	135.33	135.94	135.50	135.60	135.84
22	.95	136.02	.87	.84	.54	.60	136.00	.70	.92	.60	.76	.86
23	.98	135.61	.86	.66	.70	136.07	135.96	.69	.92	.32	.79	.86
24	136.04	.92	.87	.79	136.14	.19	.90	.55	.89	.51	.74	.80
25	135.82	136.03	.86	.60	135.94	.09	136.08	.48	.95	.67	.77	.87
26	135.87	135.89	135.76	135.84	135.64	135.77	136.06	135.50	135.78	135.74	135.56	135.48
27	.82	.84	.61	.89	.65	136.09	.03	.83	.82	.73	.29	.68
28	.83	.81	.86	.87	.46	135.74	.00	.84	.69	.77	.39	.64
29	.87	.82	.87	.88	.33	.53	135.93	136.04	.44	.72	.54	.69
30	.93	.56	.87	136.07	.68	.53	.95	135.66	.34	.46	–	.76
31	–	136.22	–	.03	.63	–	.80	–	.14	.69	–	.90
Mean	135.84	135.95	135.86	135.86	135.86	135.67	135.78	135.84	135.70	135.70	135.63	135.70
Max.	136.22	136.24	136.02	136.07	136.08	136.19	136.11	136.20	136.07	135.92	135.87	135.92
Min.	135.56	135.56	135.61	135.60	135.33	135.24	135.20	135.33	135.14	134.98	135.24	1135.26

WATER YEAR 1971 : Max. 136.08 m. Min. 134.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	230	219	275	286	268	232	215	307	212	115	230	201
2	230	273	275	288	240	223	243	313	208	133	226	210
3	230	375	270	273	410	201	197	326	193	170	230	201
4	232	381	283	281	422	161	201	358	239	191	260	185
5	246	335	275	260	404	157	203	375	248	183	283	153
6	360	349	237	294	404	201	187	343	263	193	212	185
7	381	387	291	294	369	221	195	291	318	199	253	223
8	363	387	324	298	291	201	195	335	338	206	275	241
9	304	248	228	310	395	195	189	349	318	234	253	248
10	275	258	321	315	398	212	143	338	232	270	219	246
11	210	332	286	320	291	241	177	355	241	296	210	283
12	251	343	302	326	219	181	170	321	181	286	208	217
13	251	343	248	275	253	253	281	299	191	288	177	230
14	243	343	299	263	258	318	288	232	206	275	212	243
15	273	318	299	275	241	260	286	265	223	255	149	270
16	270	228	307	275	263	212	326	248	237	173	181	286
17	296	302	286	285	270	187	304	234	210	215	187	291
18	234	313	288	234	268	175	346	251	263	199	255	296
19	288	291	315	251	241	149	349	248	232	183	230	232
20	299	294	243	281	256	195	307	234	291	201	206	275
21	288	307	315	273	228	210	299	164	302	197	219	275
22	304	324	283	275	206	219	318	241	296	219	255	281
23	313	221	281	232	241	338	307	239	296	163	263	281
24	329	296	283	263	356	372	291	208	288	199	251	265
25	270	326	281	219	302	343	340	193	304	234	258	283
26	283	288	255	275	228	358	335	197	260	251	210	193
27	270	275	221	288	230	343	326	273	270	248	157	237
28	273	268	281	283	189	251	318	275	239	258	175	228
29	283	270	283	286	164	204	299	329	185	246	206	239
30	299	210	283	335	237	204	304	232	166	189	-	255
31	-	381	-	326	226	-	265	-	135	239	-	291
Total	8,378	9,485	8,418	8,740	8,759	7,017	8,206	8,373	7,585	6,708	6,430	7,544
Mean	279	306	281	282	282	234	273	279	245	216	222	243
Max.	381	387	324	335	422	372	349	375	338	296	283	296
Min.	210	210	221	219	164	149	143	164	135	115	149	153
Runoff - mcm.	723.859	819.504	727.315	755.136	756.778	606.269	708.825	723.427	655.344	579.571	557.280	651.802

WATER YEAR 1971 : Max. 422 Min. 115 Mean 262 Annual Runoff 8,265.110 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 4	14.00	136.60	494				

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

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

Drainage Area: 1,765 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 441.31 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: 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: 1952-1972
Rated by Float: -
Rated by Current Meter: 1952-1972

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

Overbank Flow Conditions: No overbank flow.

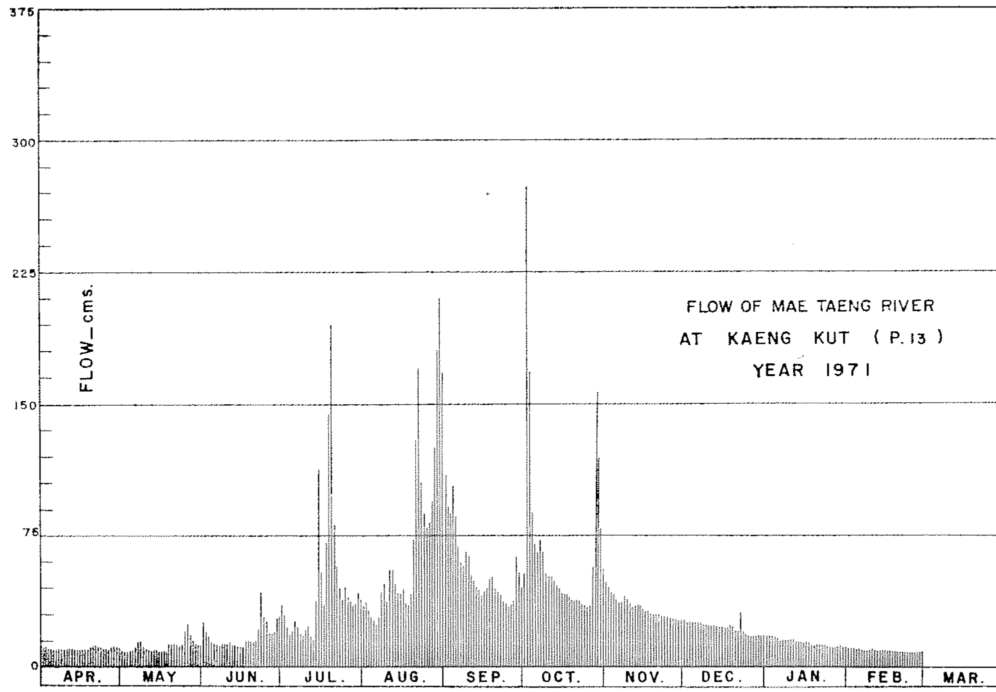
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: No records March 1-31, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	442.07	441.97	442.55	442.74	442.72	443.52	443.01	442.94	442.63	442.43	442.25	
2	.06	.95	.42	.62	.76	.38	444.44	.90	.62	.43	.25	
3	.05	.95	.34	.47	.68	.36	443.81	.86	.62	.43	.24	
4	.04	.95	.22	.36	.60	.48	.36	.85	.61	.42	.24	
5	.04	442.01	.16	.42	.56	.33	.19	.83	.61	.41	.23	
6	442.03	442.14	442.17	442.56	442.53	443.18	443.14	442.80	442.61	442.40	442.22	
7	.03	.25	.14	.50	.62	.09	.22	.80	.60	.40	.22	
8	.03	.30	.17	.40	.86	.07	.16	.84	.60	.39	.21	
9	.03	.17	.20	.37	.92	.14	.04	.82	.59	.39	.21	
10	.03	.05	.16	.41	.76	.12	442.98	.79	.59	.38	.21	
11	442.04	442.00	442.23	442.48	443.02	443.00	442.99	442.77	442.58	442.38	442.20	
12	.03	441.98	.14	.33	.03	442.93	.96	.77	.57	.37	.20	
13	.02	442.00	.13	.29	442.94	.90	.91	.79	.56	.37	.20	
14	.01	441.98	.08	.73	.84	.86	.89	.77	.56	.37	.20	
15	.02	.96	.07	443.54	.83	.83	.85	.74	.56	.37	.20	
16	442.02	441.95	442.08	443.02	442.88	442.87	442.83	442.72	442.55	446.36	442.19	
17	.01	.97	.22	442.73	.75	.89	.81	.71	.56	.35	.19	
18	.00	.96	.27	443.22	.73	.97	.80	.70	.59	.31	.19	
19	.06	442.17	.28	444.05	.83	.98	.79	.69	.53	.31	.18	
20	.10	.11	.25	443.91	443.22	.95	.77	.69	.52	.30	.18	
21	442.12	442.16	442.30	443.33	442.66	442.85	442.79	442.69	442.52	442.30	442.17	
22	.07	.13	.44	.05	.32	.81	.76	.67	.72	.29	.17	
23	.04	.09	.84	442.88	.49	.77	.74	.67	.50	.29	.16	
24	.02	.20	.60	.79	.35	.75	.73	.66	.47	.28	.16	
25	.01	.42	.54	.90	.28	.72	.72	.65	.45	.28	.15	
26	442.01	442.52	442.40	442.82	443.32	442.73	442.73	442.65	442.44	442.27	442.15	
27	.06	.37	.39	.78	.46	.77	443.04	.65	.43	.27	.15	
28	.15	.29	.41	.74	.64	443.11	.04	.64	.43	.26	.14	
29	.08	.18	.60	.76	.89	.04	.83	.64	.44	.30	.14	
30	.05	.14	.62	.86	444.13	442.89	.27	.64	.46	.28	-	
31	-	.13	-	.78	443.81	-	.04	-	.45	.27	-	
Mean	442.04	442.11	442.31	442.80	442.91	443.04	442.89	442.73	442.55	442.34	442.19	
Max.	442.15	442.52	442.84	444.05	444.13	443.52	444.44	442.94	442.63	442.43	442.25	
Min.	442.00	441.95	442.07	442.29	442.53	442.72	442.72	442.64	442.43	442.26	442.14	

WATER YEAR 1971 : Max. 444.44 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	8.90	25	35	34	109	53	48	26	17	10	
2	11	8.50	20	29	37	91	273	45	25	17	10	
3	10	8.50	17	22	32	88	153	42	25	17	10	
4	10	8.50	14	18	28	103	88	44	25	16	10	
5	10	9.70	13	20	26	85	69	39	25	16	9.90	
6	10	12	13	26	24	68	65	36	25	15	9.60	
7	10	14	12	23	29	59	72	36	24	15	9.60	
8	10	15	13	19	43	58	66	40	24	15	9.30	
9	10	13	13	18	47	65	56	38	23	15	9.30	
10	10	10	13	20	37	63	51	35	23	15	9.30	
11	10	9.50	14	23	55	52	52	34	23	15	9.00	
12	10	9.10	12	17	55	48	50	34	23	14	9.00	
13	9.90	9.50	12	15	48	45	46	35	22	14	9.00	
14	9.70	9.10	11	35	42	43	45	34	22	14	9.00	
15	9.90	8.70	11	112	41	41	42	32	22	14	9.00	
16	9.90	8.50	11	54	44	43	41	31	22	14	8.75	
17	9.70	8.90	14	35	36	45	41	31	22	14	8.75	
18	9.50	8.70	15	72	35	50	39	30	23	12	8.75	
19	11	13	15	194	41	51	38	29	21	12	8.50	
20	11	12	14	170	72	45	37	29	20	12	8.50	
21	12	13	15	85	129	42	38	29	20	12	8.25	
22	11	12	21	57	154	41	37	28	31	12	8.25	
23	10	11	42	44	105	37	35	28	19	12	8.00	
24	9.90	13	28	38	87	36	35	28	18	11	8.00	
25	9.70	20	25	45	79	34	34	27	17	11	7.75	
26	9.70	24	19	40	83	35	35	27	17	11	7.75	
27	11	18	19	38	101	37	56	27	17	11	7.75	
28	12	15	20	35	126	62	56	26	17	11	7.75	
29	11	13	28	37	166	56	156	26	17	12	7.75	
30	10	12	29	42	209	45	78	26	18	11	–	
31	–	12	–	38	153	–	56	–	17	11	–	
Total	308.90	368.10	528	1,456	2,198	1,677	1,993	991	673	418	256.50	
Mean	10.3	11.9	17.6	47.0	70.9	50.9	64.3	33.0	21.7	13.5	8.84	
Max.	12	24	42	194	209	109	273	48	26	17	10	
Min.	9.50	8.50	11	15	24	34	34	26	17	11	7.75	
Runoff - mcm.	26.689	31.804	45.619	125.798	189.907	144.893	172.195	85.622	58.147	36.115	22.162	

WATER YEAR 1971 : Max. 273 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	15.00	444.96	403				

PING RIVER BASIN

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

Location: Lat. 18^{0}-13'-49" N., Long. 98^{0}-33'-35" E., on right bank near the bridge on Hot-Mae Sariang highway at kilometer marker 7+500, Amphoe Hot, Chiang Mai.

Drainage Area: 3,853 sq.km.

Type of Gage: Water-stage recorder

Zero Gage at Bottom at: + 275.844 m. (M.S.L.)

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

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

Rating Operation:

Period of Rating: 1954-1960, 1970 to date.
Rated by Float: -
Rated by Current Meter: 1954-1960, 1970 to date.

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

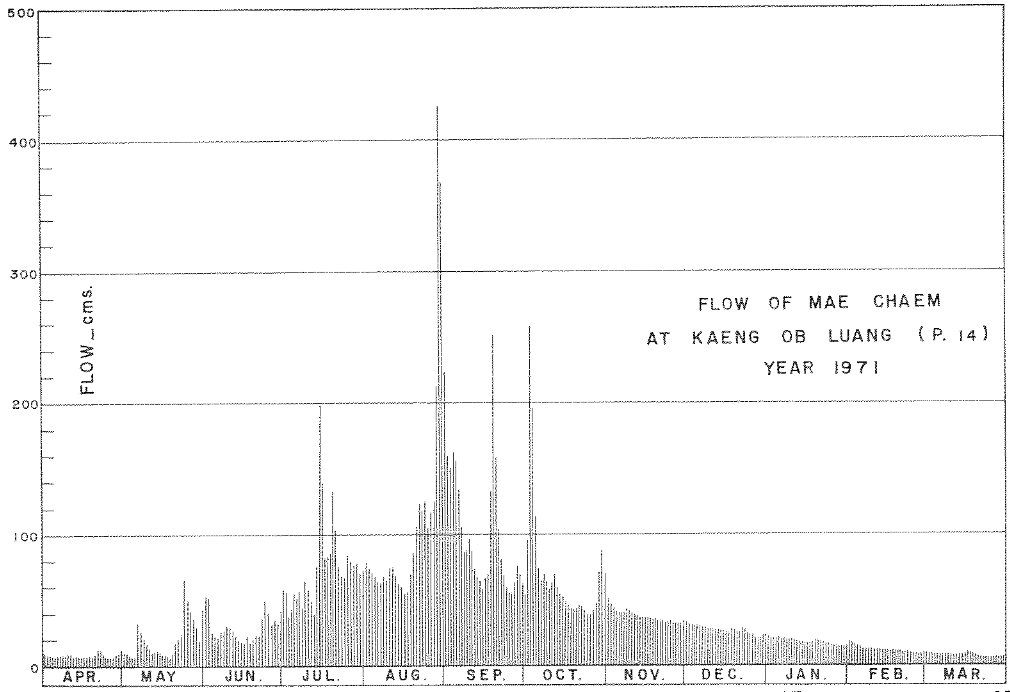
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.89	276.91	277.47	277.54	277.62	278.57	277.50	277.47	277.25	277.12	277.05	276.91
2	.88	.87	.50	.50	.63	.31	.84	.42	.23	.10	.04	.91
3	.88	.85	.31	.33	.59	.27	278.95	.40	.23	.09	.03	.91
4	.88	.84	.16	.39	.55	.36	.20	.37	.22	.09	.01	.91
5	.87	.84	.09	.50	.53	.31	277.83	.35	.21	.09	276.99	.91
6	276.87	277.24	277.10	277.48	277.50	278.05	277.66	277.34	277.21	277.08	276.98	276.91
7	.87	.20	.15	.53	.50	277.89	.60	.34	.21	.08	.97	.91
8	.90	.10	.16	.38	.54	.79	.65	.35	.20	.07	.97	.91
9	.88	.06	.21	.60	.54	.82	.61	.38	.19	.07	.96	.91
10	.90	276.99	.21	.55	.51	.88	.52	.35	.19	.07	.96	.89
11	276.90	276.94	277.19	277.43	277.71	277.73	277.55	277.33	277.18	277.07	276.96	276.89
12	.88	.90	.15	.34	.71	.64	.63	.32	.17	.06	.95	.88
13	.87	.93	.10	.31	.64	.61	.54	.32	.17	.06	.95	.87
14	.87	.93	.04	.71	.59	.57	.49	.32	.16	.06	.95	.87
15	.86	.89	.05	278.59	.57	.54	.46	.31	.16	.05	.95	.87
16	276.85	276.87	277.03	278.25	277.53	277.63	277.43	277.30	277.15	277.05	276.94	276.93
17	.85	.85	.13	277.75	.49	.64	.41	.29	.15	.05	.94	.93
18	.85	.83	.05	.76	.57	.97	.40	.28	.17	.06	.94	.91
19	.86	.82	.07	278.14	.67	278.90	.38	.28	.18	.07	.93	.89
20	.86	.96	.13	.04	.89	.38	.39	.28	.16	.04	.93	.87
21	276.94	277.07	277.08	277.89	277.96	277.89	277.41	277.27	277.14	277.05	276.93	276.86
22	.92	.13	.19	.72	278.09	.69	.41	.26	.14	.05	.92	.86
23	.89	.19	.46	.62	.04	.60	.36	.25	.17	.03	.92	.86
24	.87	.61	.46	.60	.10	.54	.34	.25	.14	.03	.91	.86
25	.87	.46	.33	.66	277.92	277.50	.33	.25	.13	.03	.91	.85
26	276.86	277.45	277.22	277.76	278.06	277.52	277.33	277.24	277.12	277.03	276.91	276.85
27	.86	.29	.30	.74	.04	.57	.39	.24	.10	.02	.91	.84
28	.87	.28	.23	.71	.19	.71	.50	.25	.09	.02	.91	.87
29	.87	.15	.25	.75	.85	.65	.82	.25	.10	.01	.91	.88
30	.94	.05	.41	.67	279.87	.56	.81	.27	.13	.01	-	.88
31	-	.37	-	.62	.10	-	.57	-	.13	.01	-	.88
Mean	276.88	277.06	277.21	277.67	277.87	277.87	277.59	277.31	277.16	277.05	276.95	276.89
Max.	276.94	277.61	277.50	278.59	279.87	278.90	278.95	277.47	277.25	277.12	277.05	276.93
Min.	276.85	276.83	277.03	277.31	277.49	277.50	277.33	277.24	277.09	277.01	276.91	276.84

WATER YEAR 1971 : Max. 279.87 m. Min. 276.83 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.05	10	51	58	67	195	54	51	33	23	18	10
2	8.60	8.15	54	54	68	155	91	47	31	22	18	10
3	8.60	7.25	37	39	63	149	257	45	31	21	17	10
4	8.60	6.80	26	44	59	162	139	42	30	21	16	10
5	8.15	6.80	21	54	57	155	90	41	30	21	14	10
6	8.15	32	22	52	54	118	71	40	30	21	14	10
7	8.15	29	25	57	54	97	64	40	30	21	13	10
8	9.50	22	26	43	58	85	70	41	29	20	13	10
9	8.60	19	30	64	58	88	65	43	28	20	13	10
10	9.50	14	30	59	55	96	56	41	28	20	13	9.05
11	9.50	12	28	48	76	78	59	39	28	20	13	9.05
12	8.60	9.50	25	40	76	69	68	38	27	19	12	8.60
13	8.15	11	22	37	69	65	58	38	27	19	12	8.15
14	8.15	11	18	76	63	61	53	38	26	19	12	8.15
15	7.70	9.05	18	198	61	58	50	37	26	18	12	8.15
16	7.25	8.15	17	146	57	68	48	36	25	18	12	11
17	7.25	7.25	24	80	53	69	46	36	25	18	12	11
18	7.25	6.35	18	82	61	107	45	35	27	19	12	10
19	7.70	5.90	20	131	72	249	43	35	28	20	11	9.05
20	7.70	13	24	117	97	165	44	35	26	18	11	8.15
21	12	20	21	97	106	97	46	34	25	18	11	7.70
22	11	24	28	77	124	74	46	35	25	18	11	7.70
23	9.50	28	50	67	117	64	42	33	27	17	11	7.70
24	8.15	65	50	64	125	58	40	33	25	17	10	7.70
25	8.15	50	39	71	101	54	39	33	24	17	10	7.25
26	7.70	49	30	82	119	56	39	32	23	17	10	7.25
27	7.70	36	36	79	117	61	44	32	22	16	10	6.80
28	8.15	55	31	76	138	76	54	33	21	16	10	8.15
29	8.15	25	33	80	240	70	88	33	22	16	10	8.60
30	12	18	46	72	425	60	87	34	24	16	–	8.60
31	–	42	–	62	283	–	61	–	24	16	–	8.60
Total	258.20	640.20	9.00	2,306	3,163	2,959	2,057	1,130	827	582	361	276.40
Mean	8.61	20.6	30.0	74.4	102	98.6	66.3	37.7	26.7	18.8	12.4	8.92
Max.	12	65	54	198	425	249	257	51	33	23	18	11
Min.	7.25	5.90	17	37	53	54	39	32	21	16	10	6.80
Runoff - mcm.	22.308	55.313	77.760	199.238	273.283	255.658	177.725	97.632	71.453	50.285	31.191	23.881

WATER YEAR 1971 : Max. 425 Min. 5.90 Mean 42.2 Annual Runoff 1,335.727 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.30	03.00	280.19	491				

PING RIVER BASIN

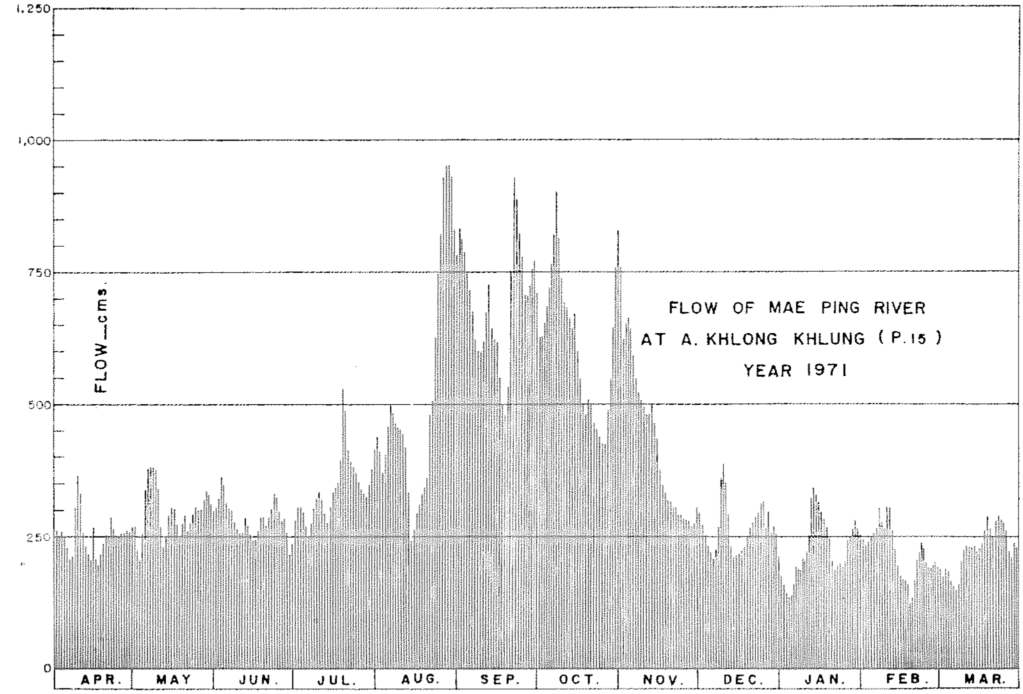
Mae Ping River at Khlong Khlung, Kamphaeng Phet (P. 15)

Location:	Lat. 16°-12'-50" N., Long. 99°-43'-26" E., on right bank infront of Wat Si Phirom, Amphoe Khlong Khlung, Kamphaeng Phet.
Drainage Area:	43,805 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 51.555 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Near the top of vertical staff gage.
Elevation:	+ 56.442 m. (M.S.L.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1954 to date.
Rating Operation:	
Period of Rating:	1967-1973
Rated by Float:	-
Rated by Current Meter:	1967-1973
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 1971. Flow regulated by Bhumiphol Dam reservoir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	54.04	54.05	54.16	54.12	54.49	55.33	54.95	55.14	54.11	53.73	53.98	53.80
2	.00	53.88	.35	.15	.42	.29	.91	54.89	.06	.68	.95	.75
3	.02	.85	.30	.15	.29	.21	.95	.96	.00	.63	.98	.80
4	.00	54.01	.21	.12	.42	.15	55.04	.99	53.94	.60	54.00	.77
5	53.93	.26	.15	.03	.55	.07	.11	.93	.90	.63	.02	.71
6	53.85	54.35	54.14	53.99	54.63	55.01	55.21	54.82	53.85	53.82	54.05	53.68
7	.88	.35	.13	54.09	.59	54.89	.37	.75	.91	.80	.15	.65
8	54.14	.35	.05	.17	.55	.85	.46	.69	54.08	.80	.07	.71
9	.31	.33	.03	.20	.53	.85	.27	.65	.31	.86	.03	.86
10	.22	.24	.01	.22	.52	.90	.12	.62	.37	.97	.15	.93
11	54.03	54.01	54.02	54.18	54.50	55.03	55.05	54.59	54.26	54.10	54.15	53.95
12	53.95	53.92	.09	.10	.42	.01	.02	.60	.09	.19	.03	.93
13	.90	54.03	.03	.06	.20	54.95	54.98	.63	53.89	.25	53.93	.93
14	.85	.14	53.98	.14	53.97	.90	.94	.54	.87	.21	.81	.95
15	54.05	.15	.96	.23	54.05	.91	55.00	.47	.90	.18	.75	.91
16	53.85	54.14	54.00	54.25	54.13	54.79	54.83	54.33	53.90	54.13	53.73	53.93
17	.82	.06	.05	.27	.17	.67	.72	.25	.93	.10	.72	.97
18	.95	53.97	.10	.41	.25	.59	.63	.21	.95	.05	.69	54.06
19	.97	54.07	.10	.70	.25	.66	.59	.18	54.01	[illegible]	.55	.10
20	54.00	.11	.05	.60	.35	.86	.65	.18	.05	53.85	.71	.03
21	54.00	54.02	54.11	54.42	54.61	55.43	54.63	54.15	54.08	53.80	53.86	54.00
22	.10	.07	.15	.38	.66	.51	.55	.15	.10	.82	.91	.10
23	.03	.13	.21	.35	.93	.40	.53	.11	.13	.83	.96	.10
24	.00	.15	.19	.32	55.14	.26	.50	.11	.17	.81	.90	.09
25	.00	.13	.10	.27	.31	.21	.46	.09	.18	.84	.82	.07
26	54.02	54.14	54.07	54.24	55.50	55.07	54.50	54.09	54.17	53.97	53.81	54.02
27	.02	.19	.09	.22	.55	.08	.59	.09	.13	54.00	.83	53.89
28	.03	.24	53.99	.20	.55	.15	.76	.05	.02	.03	.85	.87
29	.03	.21	.88	.26	.53	.21	55.01	.08	.05	.09	.81	.96
30	.05	.15	.98	.35	.35	.19	.18	.15	.00	.05	–	.93
31	–	.13	–	.44	.22	–	.32	–	53.85	.02	–	54.00
Mean	53.87	54.09	54.10	54.24	54.99	55.04	54.89	54.44	54.11	54.02	53.90	53.88
Max.	54.31	54.35	54.35	54.70	55.55	55.51	55.46	55.14	54.37	54.25	54.15	54.10
Min.	53.82	53.85	53.88	53.99	53.97	54.59	54.50	54.05	53.85	53.60	53.55	53.65

WATER YEAR 1971 : Max. 55.55 m. Min. 53.55 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	264	268	309	294	438	834	646	738	290	168	244	188
2	250	212	381	305	408	813	627	618	272	155	234	174
3	257	203	362	305	358	773	646	651	250	142	244	188
4	250	254	328	294	408	743	689	665	231	134	250	180
5	228	347	305	261	463	704	723	636	218	142	257	163
6	203	381	301	247	498	675	773	585	203	192	268	155
7	212	381	297	282	480	618	854	553	221	188	305	147
8	301	381	268	313	463	599	903	525	279	188	275	163
9	366	373	261	324	455	599	803	507	366	206	261	206
10	332	339	254	332	450	622	728	493	389	204	305	228
11	261	254	257	316	442	684	694	480	347	286	305	234
12	234	224	282	286	408	675	680	484	282	320	261	228
13	218	261	261	272	324	646	660	498	215	343	228	228
14	203	301	244	301	240	622	641	459	209	328	191	234
15	268	305	237	335	268	627	670	429	218	316	174	221
16	203	301	250	343	297	571	590	373	218	297	168	228
17	194	272	268	351	313	516	539	343	228	286	166	240
18	234	240	286	404	343	480	498	328	234	268	157	272
19	240	275	286	530	343	512	480	316	254	250	122	286
20	250	290	268	484	381	604	507	316	268	203	163	261
21	250	257	290	409	489	886	498	305	279	188	206	250
22	286	275	305	392	512	930	463	305	286	194	221	286
23	261	297	328	381	636	870	455	290	297	197	237	286
24	250	305	320	370	738	798	442	290	313	191	218	282
25	250	297	286	351	823	773	425	282	316	200	194	275
26	257	301	275	339	925	704	422	282	313	240	191	257
27	257	320	282	332	952	708	480	282	297	250	197	215
28	261	339	247	324	952	743	558	268	257	261	203	209
29	261	328	212	347	941	773	675	279	268	282	191	237
30	268	305	244	381	843	763	758	305	250	268	–	228
31	–	297	–	417	778	–	829	–	203	257	–	250
Total	7,569	9,183	8,494	10,622	16,361	20,865	19,356	12,885	8,271	7,144	6,436	6,999
Mean	252	296	283	343	528	695	624	429	267	230	222	226
Max.	366	381	381	530	952	930	903	738	389	343	305	286
Min.	194	203	212	247	240	480	422	268	203	134	122	147
Runoff – MCM.	653.961	793.411	733.882	917.741	1,414.282	1,802.736	1,672.358	1,113.264	714.614	617.242	556.070	604.714

WATER YEAR 1971 : Max. 952 Min. 122 Mean 367 Annual Runoff 11,594.275 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 26	24.00	55.57	963				

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 about 100 meters infront of district office of Amphoe Khanu Woralaksaburi, Kamphaeng Phet.

Drainage Area: 45,677 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 41.780 m. (M.S.L.)

Bench Mark: B.M. - P. 16

Location: Near the top of the vertical staff gage.
Elevation: + 45.976 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1960, 1967 to date.
Rated by Float:
Rated by Current Meter: 1960, 1967 to date.

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

Overbank Flow Conditions: No overbank flow.

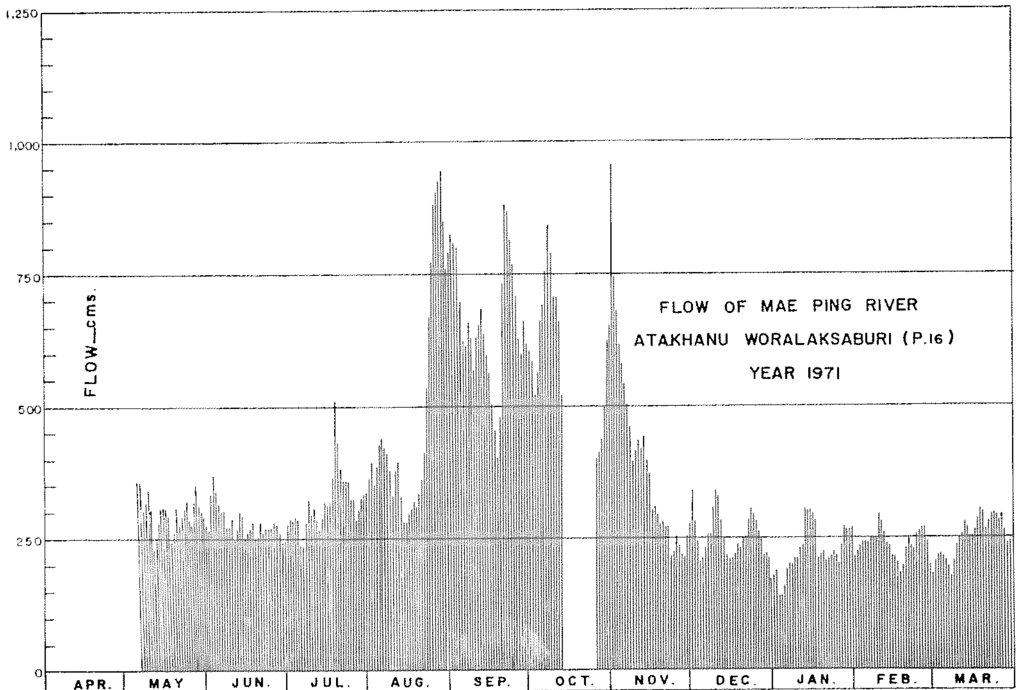
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow is regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site. No adjustment made for virgin flow.

Remarks: No records April - May 1 - 4, October 17 - 26, 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			43.54	43.59	43.83	44.74	44.31	44.96	43.74	43.30	43.39	43.29
2			.75	.61	.87	.71	.27	.60	.54	.31	.44	.38
3			.81	.60	.76	.69	.13	.46	.47	.13	.48	.41
4			.71	.62	.85	.51	.25	.35	.36	.15	.48	.41
5		43.78	.67	.60	.96	.45	.43	.26	.40	.22	.48	.40
6		43.78	43.64	43.47	43.97	44.34	44.50	44.18	43.47	43.34	43.48	43.37
7		.65	.65	.46	.92	.33	.60	.09	.53	.35	.64	.33
8		.66	.57	.61	.89	.42	.76	.02	.53	.35	.50	.26
9		.72	.57	.70	.81	.35	.64	43.87	.69	.39	.51	.41
10		.75	.61	.63	.69	.24	.51	.92	.74	.38	.63	.48
11		43.53	43.50	43.66	43.84	44.40	44.51	43.96	43.71	43.45	43.57	43.51
12		.43	.58	.60	.87	.42	.41	.92	.54	.47	.51	.53
13		.59	.64	.55	.70	.47	.14	.97	.50	.65	.47	.59
14		.66	.62	.62	.59	.33	43.82	.87	.41	.64	.46	.55
15		.67	.51	.69	.60	.29	.84	.81	.38	.65	.40	.51
16		43.66	43.55	43.68	43.64	44.18	43.77	43.65	43.38	43.62	43.39	43.53
17		.63	.57	.67	.66	.08		.67	.42	.59	.36	.58
18		.48	.60	.82	.69	43.97		.64	.48	.39	.29	.63
19		.52	.51	44.13	.66	.88		.58	.44	.42	.36	.65
20		.66	.53	43.89	.75	44.14		.60	.51	.43	.47	.64
21		43.57	43.59	43.85	43.79	44.70		43.57	43.52	43.37	43.50	43.55
22		.62	.53	.79	.91	.82		.57	.61	43.39	.46	.60
23		.66	.56	.78	44.23	.80		.40	.66	.41	.44	.63
24		.70	.56	.78	.47	.67		.43	.64	.43	.54	.64
25		.61	.57	.69	.65	.61		.52	.61	.41	.55	.62
26		43.58	43.59	43.70	44.84	44.50		43.46	43.55	43.36	43.56	43.60
27		.77	.58	.60	.88	.35	43.91	.41	43.51	.48	.56	.63
28		.69	.54	.65	.91	.30	43.98	.40	.41	.56	.48	.50
29		.66	.48	.72	.94	.42	44.11	.52	.42	.55	.34	.48
30		.64	.50	.72	.74	.34	.36	.61	.38	.56	-	.50
31		.60	-	.74	.61	-	.39	-	.25	.56	-	.51
Mean			43.59	43.68	44.05	44.42		43.84	43.51	43.43	43.47	43.51
Max.		43.78	43.81	44.13	44.94	44.82	44.76	44.96	43.74	43.65	43.64	43.65
Min.		43.43	43.48	43.46	43.59	43.88	43.77	43.40	43.25	43.13	43.29	43.26

WATER YEAR 1971 : Max. 44.96 m. Min. 43.13 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			260	278	377	830	601	957	339	184	211	181
2			343	286	395	814	581	754	260	187	227	208
3			368	282	347	803	512	679	236	138	240	217
4			326	290	386	705	571	622	202	143	240	217
5		356	310	282	434	674	664	576	214	162	240	214
6		356	298	236	439	617	700	536	236	196	240	205
7		302	302	233	417	612	754	493	257	199	298	193
8		306	271	286	404	658	842	461	257	199	246	173
9		330	271	322	368	622	776	395	318	211	250	217
10		343	286	294	318	566	705	417	339	208	294	240
11		257	246	306	382	648	705	434	326	230	271	250
12		224	275	282	395	658	653	417	260	236	250	257
13		278	298	264	322	684	517	439	246	302	236	278
14		306	290	290	278	612	373	395	217	298	233	264
15		310	250	318	282	591	382	368	208	302	214	250
16		306	264	314	298	536	351	302	208	290	211	257
17		294	271	310	306	489		310	220	278	202	275
18		240	282	373	318	439		298	240	211	181	294
19		253	250	512	306	399		275	227	220	202	302
20		306	257	404	343	517		282	250	224	236	298
21		271	278	386	360	808		271	253	205	246	264
22		290	257	360	412	876		271	286	211	233	282
23		306	268	356	561	864		214	306	217	227	294
24		322	268	356	684	792		224	298	224	260	298
25		286	271	318	781	759		253	286	217	264	290
26		275	278	322	887	700		233	*264	202	268	282
27		351	275	282	910	622	412	217	250	240	268	294
28		318	260	302	928	596	443	214	217	268	240	246
29		306	240	330	945	653	503	253	220	264	196	240
30		298	246	330	830	617	627	286	208	268	-	246
31		282	-	339	759	-	643	-	170	268	-	250
Total			8,359	9,843	15,172	19,766		11,846	7,838	7,002	6,924	7,776
Mean			279	317	489	659		395	253	226	239	251
Max.		356	368	512	945	876	842	957	339	302	298	302
Min.		224	240	233	278	399	351	214	170	138	181	173
Runoff - mcm.			722.218	850.435	1,310.861	1,707.782		1,023.494	677.203	604.973	598.234	671.846

WATER YEAR 1971 : Max. 957 Min. 138 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 1	7.00	45.14	1,062				

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: + 32.00 m. (M.S.L.)

Bench Mark: B.M. - H.S. - P. 17

Location: At the post of transmission line near gage site.
Elevation: + 37.697 m. (M.S.L.)

Gage Reading Frequency: 7-time daily readings at 01.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 7 readings.

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1960, 1967-1974
Rated by Float: -
Rated by Current Meter: 1960, 1967-1974.

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

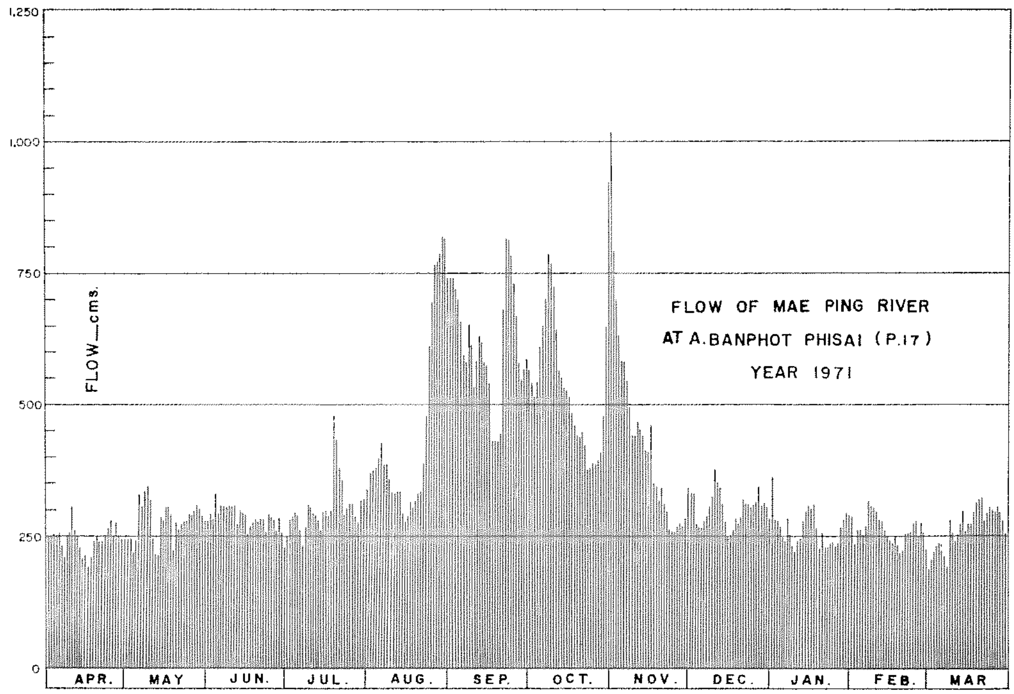
Overbank Flow Conditions: Overbank flow at about elevation + 36.30 m. (M.S.L.). Records are channel flow only.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35.17	35.16	35.28	35.18	35.51	36.50	36.07	37.08	35.44	35.22	35.30	34.95
2	.20	.17	.33	.28	.58	.50	.03	36.59	.45	.28	.12	35.04
3	.19	.16	.60	.30	.58	.46	35.96	.34	.26	.28	.21	.12
4	.19	.06	.45	.33	.60	.41	36.08	.26	.25	.26	.21	.11
5	.20	.28	.32	.31	.66	.33	.25	.14	.23	.17	.18	.13
6	35.15	35.44	35.37	35.20	35.73	36.14	36.32	36.14	35.26	35.13	35.25	35.10
7	.01	.36	.36	.11	.61	.12	.40	.06	.30	.30	.40	.02
8	.19	.46	.36	.21	.61	.31	.61	35.90	.38	.16	.36	34.95
9	.25	.49	.37	.38	.50	.20	.56	.76	.42	.10	.36	35.28
10	.36	.42	.35	.36	.46	.02	.47	.78	.58	.08	.34	.18
11	35.22	35.14	35.37	35.31	35.46	36.20	36.26	35.84	35.51	35.16	35.28	35.14
12	.18	.05	.25	.31	.47	.26	.09	.78	.48	.16	.27	.22
13	.14	.05	.34	.28	.46	.20	.06	.77	.34	.32	.21	.27
14	.01	.30	.33	.20	.32	.12	.00	.68	.28	.34	.18	.35
15	.06	.28	.31	.34	.26	.11	.00	.68	.17	.38	.16	.21
16	34.94	35.36	35.18	35.34	35.32	35.94	35.97	35.54	35.18	35.35	35.13	35.26
17	35.02	.36	.25	.30	.39	.74	.88	.50	.22	.38	.18	.26
18	.06	.30	.27	.36	.36	.74	.82	.48	.29	.21	.13	.38
19	.19	.08	.29	.87	.40	.74	.76	.40	.25	.07	.06	.40
20	.17	.27	.26	.70	.45	.85	.76	.48	.30	.20	.10	.41
21	35.12	35.22	35.29	35.54	35.46	36.44	35.79	35.38	35.41	35.12	35.20	35.42
22	.16	.26	.26	.51	.63	.67	.68	.34	.38	.08	.20	.27
23	.19	.27	.19	.32	.86	.66	.58	.20	.38	.10	.21	.34
24	.23	.28	.31	.37	36.23	.56	.60	.20	.36	.15	.26	.36
25	.28	.32	.30	.37	.40	.49	.62	.20	.37	.14	.27	.34
26	35.18	35.32	35.28	35.37	36.56	36.33	35.61	35.25	35.39	35.10	35.17	35.34
27	.27	.38	.20	.30	.58	.13	.64	.26	.48	.14	.26	.36
28	.17	.37	.29	.26	.60	.04	.73	.24	.36	.27	.20	.32
29	.16	.34	.20	.39	.68	.11	.94	.31	.39	.30	.08	.10
30	.16	.31	.11	.40	.67	.15	36.28	.48	.36	.33	-	.18
31	-	.27	-	.43	.50	-	.87	-	.26	.32	-	.22
Mean	35.16	35.27	35.30	35.35	35.79	36.21	36.02	35.70	35.35	35.21	35.22	35.23
Max.	35.36	35.49	35.60	35.87	36.68	36.67	36.87	37.08	35.58	35.38	35.40	35.42
Min.	34.94	35.05	35.11	35.11	35.26	35.74	35.58	35.20	35.17	35.07	35.06	34.95

WATER YEAR 1971 : Max. 37.08 m. Min. 34.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	248	245	281	251	353	737	555	1,019	331	263	287	188
2	257	248	296	281	376	737	539	778	334	281	234	212
3	254	245	383	287	376	719	512	666	275	281	260	234
4	254	217	334	296	383	696	559	632	272	275	260	231
5	257	281	293	290	404	662	628	583	266	248	251	237
6	242	331	309	257	428	583	657	583	275	237	272	228
7	204	306	306	231	386	575	691	551	287	287	318	206
8	254	337	306	260	386	653	788	490	312	245	306	188
9	272	347	309	312	350	607	765	439	324	228	306	281
10	306	324	302	306	337	535	723	446	376	223	299	251
11	263	240	309	290	337	607	632	468	353	245	281	239
12	251	214	272	290	340	632	563	446	344	245	278	263
13	240	214	299	281	337	607	551	442	299	293	260	278
14	204	287	296	257	293	575	527	411	281	299	251	302
15	217	281	290	299	275	571	527	411	248	312	245	260
16	186	306	251	299	293	505	516	363	251	302	237	275
17	206	306	272	287	315	432	483	350	263	312	251	275
18	217	287	278	306	306	432	460	344	284	260	237	312
19	254	223	284	479	318	432	439	318	272	220	217	318
20	248	278	275	418	334	471	439	344	287	257	228	321
21	234	263	284	363	337	709	449	312	321	234	257	324
22	245	275	275	353	393	816	411	299	312	223	257	278
23	254	278	254	293	475	811	376	257	312	228	260	299
24	266	281	290	309	620	765	383	257	306	242	275	306
25	281	293	287	309	691	732	390	257	309	240	278	299
26	251	293	281	309	765	662	386	272	315	228	248	299
27	278	312	257	287	774	579	397	275	344	240	276	306
28	248	309	284	275	783	543	428	269	306	278	257	293
29	245	299	257	315	821	571	505	290	315	287	223	228
30	245	290	231	318	816	587	641	344	306	296	–	251
31	–	278	–	328	737	–	914	–	275	293	–	263
Total	7,381	8,688	8,645	9,436	14,139	18,543	16,834	12,916	9,355	8,102	7,608	8,245
Mean	246	280	288	304	456	618	543	430	302	261	262	266
Max.	306	347	383	479	821	816	914	1,019	376	312	318	324
Min.	186	214	231	231	275	432	376	257	248	220	217	188
Runoff – MCM.	637.718	750.643	746.928	815.271	1,221.610	1,602.115	1,454.458	1,115.942	808.272	700.013	657.331	712.368

WATER YEAR 1971 : Max. 1,019 Min. 186 Mean 355 Annual Runoff 11,222.669 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.1	1.00	37.22	1,092				

PING RIVER BASIN

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

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

Drainage Area: 14,023 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 271.351 m. (M.S.L.)

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

Location: Infront of the office of station P. 19A
Elevation: + 275.682 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: 1958 to date.

Rating Operation:

Period of Rating: 1958 to date.
Rated by Float: -
Rated by Current Meter: 1958 to date.

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

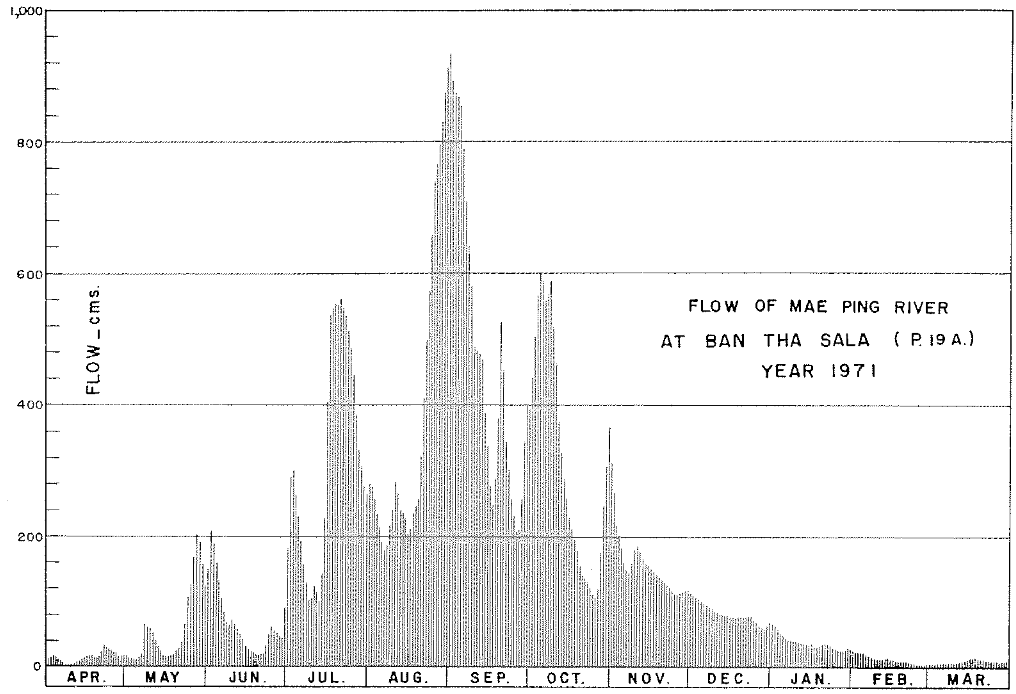
Overbank Flow Conditions: Overbank flow starts at elevation + 276.00 m. (M.S.L.). Records are channel flow only.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Upstream State diversions for irrigation of about 28,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	272.23	272.34	273.43	273.95	274.15	276.53	274.69	274.28	273.19	272.86	272.45	272.11
2	.27	.26	.76	274.18	.13	.45	.96	.04	.17	.81	.44	.12
3	.32	.20	.64	.24	.03	.43	275.37	273.79	.14	.77	.44	.11
4	.27	.19	.48	.05	273.89	.42	.55	.64	.12	.70	.42	.12
5	.20	.18	.24	273.77	.75	.36	.53	.52	.11	.69	.40	.14
6	272.12	272.26	273.71	273.52	273.65	276.11	275.45	273.43	273.07	272.68	272.37	272.16
7	.04	.49	272.95	.39	.55	275.84	.38	.38	.06	.62	.35	.17
8	271.97	.71	.83	.25	.63	.55	.46	.39	.06	.60	.32	.16
9	272.00	.75	.80	.13	.87	.26	.51	.50	.03	.59	.28	.17
10	.01	.74	.86	.10	274.03	.10	.20	.59	273.00	.59	.28	.17
11	272.08	272.68	272.79	273.25	274.15	275.07	274.77	273.62	272.98	272.58	272.27	272.17
12	.12	.59	.78	.20	.07	.06	.53	.56	.96	.57	.27	.20
13	.15	.48	.72	.09	273.99	274.96	.36	.50	.95	.56	.28	.21
14	.21	.40	.62	.41	.92	.65	.16	.49	.94	.54	.25	.21
15	.24	.33	.52	274.95	.85	.27	274.00	.46	.94	.54	.27	.26
16	272.25	272.30	272.44	275.24	273.76	274.07	273.86	273.43	272.94	272.54	272.26	272.26
17	.26	.31	.42	.29	.81	273.97	.75	.39	.93	.51	.23	.27
18	.27	.31	.36	.36	274.00	274.29	.64	.37	.93	.50	.23	.27
19	.24	.33	.33	.36	273.96	.98	.55	.34	.94	.53	.22	.28
20	.24	.38	.33	.32	274.15	275.25	.45	.30	.94	.54	.22	.26
21	272.40	272.43	272.32	275.39	274.39	275.03	273.35	273.27	272.93	272.56	272.21	272.24
22	.48	.57	.35	.34	.96	274.66	.30	.25	.91	.54	.19	.23
23	.48	.79	.60	.31	275.42	.33	.26	.23	.93	.50	.18	.21
24	.45	273.15	.75	.19	.79	.08	.22	.21	.94	.49	.18	.21
25	.41	.28	.80	274.85	276.03	273.88	.16	.19	.86	.48	.14	.21
26	272.38	273.47	272.77	274.55	276.07	273.75	273.12	273.18	272.83	272.47	272.13	272.19
27	.35	.75	.71	.38	.15	.78	.23	.19	.79	.47	.12	.21
28	.31	.73	.61	.22	.28	274.06	.50	.19	.74	.46	.11	.23
29	.30	.58	.70	.11	.46	.62	.84	.20	.77	.45	.11	.23
30	.31	.43	273.21	.02	.55	.73	274.35	.20	.82	.47	-	.23
31	-	.26	-	.09	.62	-	.46	-	.85	.48	-	.21
Mean	272.24	272.70	272.81	274.27	274.22	274.88	274.24	273.44	272.96	272.57	272.26	272.13
Max.	272.48	273.75	273.76	275.39	276.62	276.53	275.55	274.28	273.19	272.86	272.45	272.28
Min.	271.97	272.18	272.32	273.09	273.55	273.75	273.12	273.18	272.74	272.45	272.11	272.11

WATER YEAR 1971 : Max. 276.62 m. Min. 271.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	20	152	241	280	899	391	306	116	71	29	6.55
2	16	15	207	286	276	872	452	258	113	65	28	7.10
3	19	11	187	298	256	865	553	212	109	60	28	6.55
4	16	11	160	260	229	861	600	187	106	52	27	7.10
5	11	10	123	208	205	841	595	167	104	51	25	8.20
6	7.12	15	104	166	186	760	573	152	99	50	23	9.30
7	3.60	32	82	146	172	681	555	144	97	44	21	9.85
8	1.40	54	68	125	185	600	576	146	97	42	19	9.30
9	2.00	58	64	107	226	525	589	163	93	41	16	9.85
10	2.40	57	71	103	256	484	509	178	89	41	16	9.85
11	5.20	50	63	125	280	478	409	183	86	41	16	9.85
12	7.10	41	62	117	264	476	357	173	83	40	16	11
13	8.15	31	55	102	240	452	322	163	82	39	16	12
14	12	25	44	149	235	382	282	162	81	37	14	12
15	14	20	35	450	222	304	250	157	81	37	16	15
16	14	17	28	520	207	264	224	153	81	37	15	15
17	15	18	27	532	215	244	205	146	79	34	13	16
18	16	18	22	550	250	308	187	143	79	33	13	16
19	14	20	20	550	243	457	172	138	81	36	13	16
20	14	23	20	540	280	522	155	132	81	37	13	15
21	25	27	19	558	328	469	140	128	79	39	12	14
22	31	40	21	545	452	384	132	125	77	37	11	13
23	31	69	42	537	566	316	126	122	79	33	10	12
24	29	110	58	507	667	266	120	119	81	32	10	12
25	24	129	64	427	735	228	112	116	71	31	8.20	12
26	23	158	60	361	747	205	106	115	68	31	7.65	11
27	21	205	54	326	772	210	122	116	63	31	7.10	12
28	18	201	43	294	814	262	163	116	57	30	6.55	13
29	17	176	52	272	875	376	221	117	60	29	6.55	13
30	18	152	119	254	906	399	320	117	66	31	–	13
31	–	126	–	268	931	–	342	–	70	31	–	12
Total	447.97	1,939	2,126	9,924	12,500	14,391	9,860	4,654	2,608	1,243	456.05	358.50
Mean	14.9	62.5	70.9	320	403	480	318	155	84.1	40.1	15.7	11.5
Max.	31	205	207	558	931	899	600	306	116	71	29	16
Min.	1.40	10	19	102	172	205	106	115	57	29	6.55	6.55
Runoff - mcm.	38.705	167.530	183.686	857.434	1,080.000	1,243.382	851.904	402.106	225.331	107.395	39.403	30.974

WATER YEAR 1971 : Max. 931 Min. 1.40 Mean 165 Annual Runoff 5,227.850 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.31	18.00	276.64	939				

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 about 100 meters downstream from Chiang Mai - Fang highway bridge, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 515 sq.km.

Type of Gage: Staff gage

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

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

Location: In the vicinity of gage observer's house.
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: Fairly stable, no shifting adjustment for flow computation for year without actual ratings.

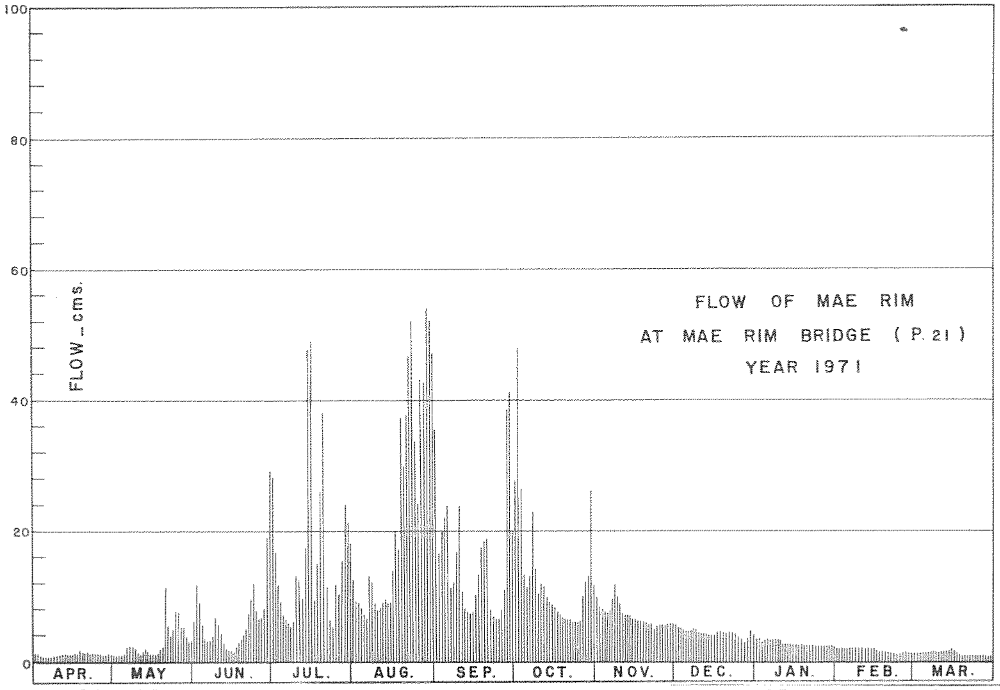
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1955-1959. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.35	320.33	321.17	321.70	321.11	321.57	321.49	321.04	320.79	320.63	320.48	320.39
2	.32	.30	.14	.48	.01	.35	322.20	320.99	.76	.63	.46	.42
3	.32	.31	.08	.16	.02	.36	.10	.95	.75	.60	.47	.41
4	.25	.27	320.77	.05	320.94	.46	321.53	.92	.75	.58	.44	.39
5	.24	.31	.62	320.93	.92	.59	.26	.90	.74	.61	.47	.40
6	320.27	320.50	320.59	320.84	320.85	321.27	321.11	320.90	320.74	320.62	320.49	320.38
7	.28	.52	.55	.83	321.20	.09	.11	.94	.73	.62	.49	.39
8	.30	.51	.64	.78	.15	.17	.58	321.15	.73	.63	.49	.41
9	.34	.49	.87	.79	.01	.52	.23	.06	.73	.60	.50	.42
10	.35	.43	.78	321.20	320.92	.59	.08	320.99	.71	.57	.47	.41
11	320.38	320.36	320.75	321.20	320.96	321.22	321.14	320.93	320.70	320.56	320.48	320.43
12	.35	.35	.59	320.98	.98	.01	.15	.89	.70	.55	.47	.41
13	.31	.43	.53	321.07	321.04	320.94	.05	.89	.71	.55	.48	.44
14	.31	.44	.45	322.16	.01	.91	.00	.89	.70	.54	.48	.41
15	.35	.41	.45	.22	.02	.89	320.97	.86	.68	.53	.47	.46
16	320.37	320.37	320.43	321.76	321.19	321.00	320.95	320.84	320.67	320.54	320.46	320.48
17	.34	.38	.43	.03	.46	.16	.91	.84	.72	.55	.44	.41
18	.43	.38	.54	.52	.36	.38	.88	.83	.76	.53	.45	.38
19	.38	.40	.60	.66	.93	.42	.87	.82	.72	.53	.44	.31
20	.32	.48	.68	.95	.76	.44	.85	.83	.70	.54	.44	.35
21	320.39	321.10	320.77	321.30	322.19	321.10	320.85	320.78	320.70	320.53	320.45	320.33
22	.35	320.74	.90	320.98	.28	320.96	.85	.80	.72	.55	.44	.32
23	.40	.62	321.10	.82	.10	.88	.83	.74	.70	.54	.42	.31
24	.41	.72	.17	.76	321.81	.86	.82	.78	.69	.53	.42	.31
25	.40	.93	.08	321.16	.56	.86	.82	.79	.66	.53	.40	.33
26	320.35	320.91	320.84	321.04	322.07	320.97	320.82	320.77	320.65	320.54	320.41	320.33
27	.32	.75	.86	.13	321.97	321.04	321.05	.79	.59	.54	.40	.32
28	.31	.77	321.00	.49	322.23	.96	.17	.79	.59	.53	.40	.36
29	.34	.67	.37	.59	.33	322.03	.20	.80	.62	.53	.39	.36
30	.37	.58	.74	.45	.24	321.46	.65	.81	.74	.51	-	.37
31	-	.61	-	.26	.06	-	.18	-	.67	.50	-	.37
Mean	320.34	320.53	320.82	321.23	321.47	321.25	321.09	320.88	320.70	320.56	320.45	320.38
Max.	320.43	321.10	321.74	322.22	322.33	322.03	322.20	321.15	320.79	320.63	320.50	320.48
Min.	320.24	320.27	320.43	320.76	320.85	320.86	320.82	320.74	320.59	320.50	320.39	320.31

WATER YEAR 1971 : Max. 322.33 m. Min. 320.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.10	0.98	12	28	11	23	20	10	5.66	3.56	2.12	1.34
2	0.92	0.80	12	20	9.09	16	48 *	8.74	5.24	3.56	1.94	1.58
3	0.92	0.86	10	12	9.28	17	44	8.10	5.10	3.20	2.03	1.49
4	0.60	0.68	5.38	9.85	7.94	20	22	7.62	5.10	3.02	1.76	1.34
5	0.56	0.86	3.44	7.78	7.62	24	14	7.30	4.96	3.32	2.03	1.40
6	0.68	2.30	3.11	6.40	6.55	14	11	7.30	4.96	3.44	2.21	1.28
7	0.72	2.48	2.75	6.25	13	11	11	7.94	4.82	3.44	2.21	1.34
8	0.80	2.39	3.68	5.52	12	12	23	12	4.82	3.56	2.21	1.49
9	1.04	2.21	6.85	5.66	9.09	21	13	10	4.82	3.20	2.30	1.58
10	1.10	1.67	5.52	13	7.62	24	10	8.74	4.54	2.93	2.03	1.49
11	1.28	1.16	5.10	13	8.26	13	12	7.78	4.40	2.84	2.12	1.67
12	1.10	1.10	3.11	8.58	8.58	9.09	12	7.15	4.40	2.75	2.03	1.49
13	0.86	1.67	2.57	10	10	7.94	10	7.15	4.54	2.75	2.12	1.76
14	0.86	1.76	1.85	47	9.09	7.46	8.90	7.15	4.40	2.66	2.12	1.49
15	1.10	1.49	1.85	49	9.28	7.15	8.42	6.70	4.16	2.57	2.03	1.94
16	1.22	1.22	1.67	30	13	8.90	8.10	6.40	4.04	2.66	1.94	2.12
17	1.04	1.28	1.67	9.47	20	12	7.46	6.40	4.68	2.75	1.76	1.49
18	1.67	1.28	2.66	21	17	17	7.00	6.25	5.24	2.57	1.85	1.28
19	1.28	1.40	3.20	26	37	18	6.85	6.10	4.68	2.57	1.76	0.86
20	0.92	2.12	4.16	38	30	19	6.55	6.25	4.40	2.66	1.76	1.10
21	1.34	11	5.38	15	48	11	6.55	5.52	4.40	2.57	1.85	0.98
22	1.10	4.96	7.30	8.58	52	8.26	6.55	5.80	4.68	2.75	1.76	0.92
23	1.40	3.44	11	6.10	44	7.00	6.25	4.96	4.40	2.66	1.58	0.86
24	1.49	4.68	12	5.24	32	6.70	6.10	5.52	4.28	2.57	1.58	0.86
25	1.40	7.78	10	12	23	6.70	6.10	5.66	3.92	2.57	1.40	0.98
26	1.10	7.46	6.40	10	43	8.42	6.10	5.38	3.80	2.66	1.49	0.98
27	0.92	5.10	6.70	11	39	10	10	5.66	3.11	2.66	1.40	0.92
28	0.86	5.38	8.90	20	50	38	12	5.66	3.11	2.57	1.40	1.16
29	1.04	4.04	17	24	54	41	13	5.80	3.44	2.57	1.34	1.16
30	1.22	3.02	29	19	50	20	26	5.95	4.96	2.39	–	1.22
31	–	3.32	–	14	41	–	12	–	4.04	2.30	–	1.22
Total	31.64	89.89	206.25	511.43	732.40	458.62	413.93	210.98	139.10	88.28	54.13	40.79
Mean	1.05	2.90	6.87	16.5	23.6	15.3	13.3	7.03	4.49	2.85	1.87	1.31
Max.	1.67	11	29	49	54	41	48	12	5.66	3.56	2.30	2.12
Min.	0.56	0.68	1.67	5.24	6.55	6.70	6.10	4.96	3.11	2.30	1.34	0.86
Runoff - mcm.	2.734	7.766	17.820	44.187	63.279	39.625	35.763	18.229	12.018	7.627	4.677	3.524

WATER YEAR 1971 : Max. 54 Min. 0.56 Mean 8.13 Annual Runoff 257.251 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 29	6.00	322.38	57				

PING RIVER BASIN

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

Location: Lat. 18°-31'-37" N., Long. 98°-51'-42" E., on left bank downstream site of Mae Khan Bridge, Amphoe San Pa Tong, Chiang Mai.

Drainage Area: 1,777 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 285.622 m. (M.S.L.)

Bench Mark: B.M. - H.S. P. 23

Location: About 10 meters in the line of vertical staff gage.
Elevation: + 289.483 m. (M.S.L.)

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

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1954-1960, 1967, 1970 to date.
Rated by Float: -
Rated by Current Meter: 1954-1960, 1967, 1970 to date.

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

Overbank Flow Conditions: No overbank flow.

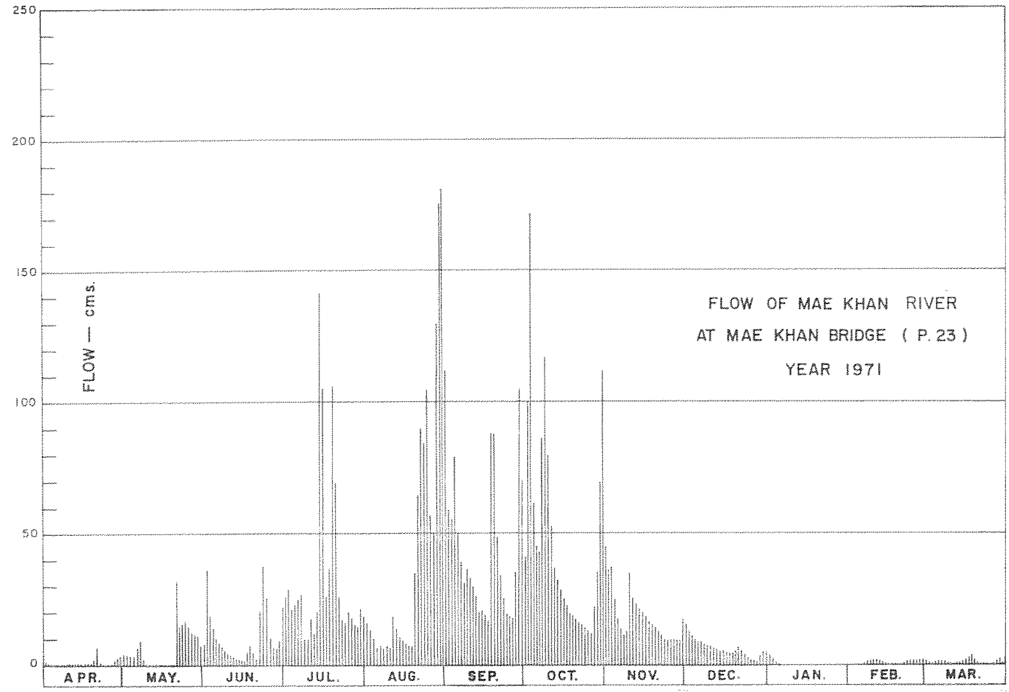
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements, made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remark: Discharge records for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.52	286.62	286.76	287.12	186.92	288.05	287.48	287.38	287.06	286.87	286.67	286.79
2	.50	.61	287.38	.23	.92	287.77	288.11	.40	.02	.85	.65	.78
3	.49	.60	286.98	.08	.80	.72	289.08	.32	.00	.81	.65	.73
4	.47	.60	.90	.02	.75	288.08	287.88	.21	286.99	.77	.64	.75
5	.46	.58	.78	.08	.67	287.83	.59	.11	.98	.72	.66	.78
6	286.46	286.62	286.69	287.10	286.57	287.55	287.50	287.06	286.97	286.70	286.74	286.77
7	.42	.79	.62	.18	.62	.36	288.20	.01	.96	.68	.77	.77
8	.38	.66	.59	286.98	.59	.30	.52	.01	.95	.67	.79	.78
9	.44	.33	.55	.68	.63	.40	.39	.37	.94	.64	.80	.78
10	.45	.28	.52	.71	.61	.34	287.93	.27	.94	.62	.80	.76
11	286.48	286.20	286.46	286.95	286.98	287.29	287.55	287.21	286.92	286.66	286.80	286.74
12	.48	.19	.42	.84	.93	.20	.37	.19	.91	.68	.80	.72
13	.44	.19	.39	.76	.85	.11	.30	.16	.88	.71	.79	.74
14	.43	.19	.37	287.26	.76	.01	.25	.15	.88	.70	.79	.75
15	.45	.17	.36	288.78	.71	.03	.22	.15	.89	.68	.79	.78
16	286.46	286.16	286.36	288.20	286.70	286.96	287.18	287.14	286.89	286.70	286.72	286.79
17	.50	.16	.47	287.37	.64	.91	.10	.09	.86	.61	.72	.83
18	.49	.16	.62	.16	.61	288.74	286.96	.06	.86	.64	.75	.86
19	.48	.18	.54	.60	.61	.74	.94	.05	.88	.70	.74	.81
20	.48	.23	.46	288.39	287.12	287.71	.92	.02	.92	.68	.72	.77
21	286.70	287.29	286.40	287.50	287.71	287.46	286.90	287.00	286.91	286.68	286.69	286.74
22	.50	286.92	.92	.19	288.19	.28	.87	286.97	.90	.64	.75	.72
23	.41	.96	287.41	286.94	.12	.10	.83	.96	.87	.60	.82	.69
24	.32	.98	.16	.89	.37	286.99	.81	.96	.83	.59	.81	.72
25	.23	.98	.00	.88	287.75	.96	.79	.98	.81	.57	.80	.67
26	286.43	286.92	286.66	287.03	287.12	286.91	286.77	286.97	286.89	286.61	286.81	286.68
27	.54	.87	.58	286.97	.61	287.24	287.09	.97	.79	.62	.81	.24
28	.57	.86	.56	.90	288.53	.49	.26	.98	.80	.61	.81	.83
29	.58	.86	.66	.86	289.10	288.38	.56	287.03	.84	.62	.81	.82
30	.62	.77	.94	287.05	.17	287.72	288.46	.11	.88	.62	-	.71
31	-	.71	-	.00	288.52	-	287.64	-	.89	.62	-	.72
Mean	286.47	286.57	286.68	287.18	287.38	287.49	287.45	287.10	286.81	286.67	286.75	286.76
Max.	286.70	287.29	287.41	288.78	289.17	288.74	289.08	287.40	287.06	286.87	286.82	286.86
Min.	286.23	286.16	286.36	286.68	286.57	286.91	286.77	286.96	286.79	286.57	286.64	286.67

WATER YEAR 1971 : Max. 289.17 m. Min. 286.67 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.00	4.60	8.80	25	17	79	42	36	15	5.15	0.00	1.80
2	1.50	4.30	36	29	17	59	83	37	13	4.25	0.00	1.60
3	1.40	4.00	19	23	13	56	172	33	11	2.45	0.00	0.60
4	1.20	4.00	16	21	11	79	67	* 24	11	1.40	0.00	1.00
5	1.10	3.50	12	23	9.25	63	48	* 18	10	0.40	0.00	1.60
6	1.10	4.60	9.75	24	6.75	46	43	* 15	10	0.00	0.80	1.40
7	0.70	9.70	8.00	27	8.00	35	90	12	9.50		1.40	1.40
8	0.40	5.80	7.25	19	7.25	32	117	12	9.00		1.80	1.60
9	0.90	0.15	6.25	9.50	8.25	37	106	35	8.50		2.00	1.60
10	1.00	0.00	5.50	10	7.75	34	* 70	28	8.50		2.00	1.20
11	1.30	0.00	4.20	18	19	32	* 46	24	7.50		2.00	0.80
12	1.30		3.40	14	17	28	* 36	22	7.00	0.00	2.00	0.40
13	0.90		2.85	12	15	24	* 32	21	5.60	0.20	1.80	0.80
14	0.80		2.55	31	12	20	30	20	5.60	0.00	1.80	1.00
15	1.00		2.40	142	10	21	29	20	6.05		1.80	1.60
16	1.00		2.40	90	10	19	27	19	6.05	0.00	0.40	1.80
17	1.50		4.40	36	3.50	17	24	16	4.70		0.40	3.35
18	1.40		8.00	26	7.75	138	19	15	4.70		1.00	4.70
19	1.30		6.00	48	7.75	138	18	14	5.60		0.80	2.45
20	1.30	0.00	4.20	106	.25	55	17	13	7.50		0.40	1.40
21	7.00	32	3.00	43	55	41	16	11	7.00		0.00	0.80
22	1.50	15	17	28	* 90	32	15	10	6.50		1.00	0.40
23	0.60	16	38	18	* 84	24	14	9.50	5.15		2.90	0.00
24	0.10	17	26	16	* 104	20	13	9.50	3.35		2.45	0.80
25	0.00	17	20	16	* 58	19	13	10	2.45		2.00	0.00
26	0.80	15	9.00	21	* 56	17	12	10	2.00		2.45	0.00
27	2.50	13	7.00	19	* 49	30	24	10	1.80		2.45	0.80
28	3.25	12	6.50	16	118	42	31	10	2.00		2.45	3.35
29	3.50	12	9.00	15	174	105	46	13	3.80		2.45	2.90
30	4.60	9.10	18	22	181	56	112	18	5.60		–	0.20
31	–	7.30	–	20	117	–	51	–	6.05	0.00	–	0.40
Total	47.05	206.05	322.45	967.50	1,323.25	1,398	1,463	545.00	211.50	13.85	38.55	41.75
Mean	1.57	6.65	10.7	31.2	42.7	46.6	47.2	18.2	6.82	0.45	1.30	1.35
Max.	7.00	32	38	142	181	138	172	37	15	5.15	2.90	4.70
Min.	0.00	0.00	2.40	9.50	6.75	17	12	9.50	1.80	0.00	0.00	0.00
Runoff – mcm.	4.065	17.803	27.860	83.592	114.329	120.787	126.403	47.088	18.273	1.197	3.331	3.607

WATER YEAR 1971 : Max. 181 Min. 0.00 Mean 18.0 Annual Runoff 568.335 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 29	18.00	289.52	219				

PING RIVER BASIN

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

Location: Lat. 18^{0}–23'–15" N., Long 98^{0}–40'–51" E., On left bank upstream site of Mae Klang Bridge, 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: B.M. – P.24

Location: At the left abutment of Mae Klang Bridge.
Elevation: + 2.149 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: 1954–1974

Rating Operation:

Period of Rating: 1955–1971
Rated by Float: –
Rated by Current Meter: 1955–1971

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

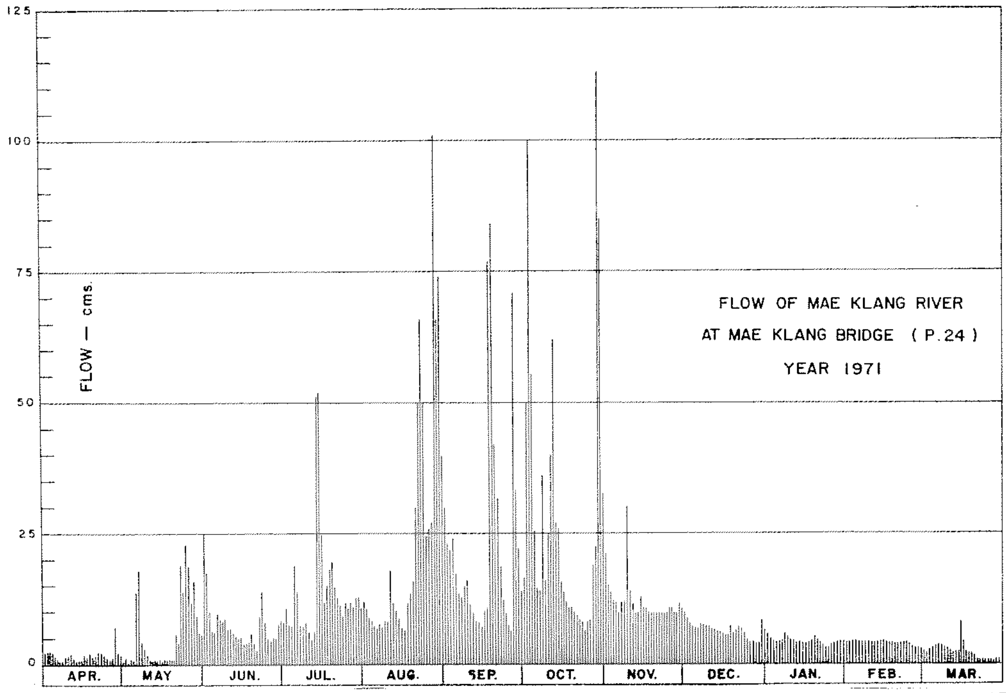
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage–discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.58	0.49	1.31	0.84	0.97	1.37	1.12	1.22	0.90	0.78	0.69	0.61
2	.58	.51	.15	.95	.93	.26	.93	.08	.87	.75	.70	.59
3	.60	.43	0.86	.83	.87	.23	2.47	.02	.82	.72	.71	.61
4	.58	.51	.78	.82	.85	.27	1.74	0.96	.81	.71	.70	.64
5	.54	.48	.77	.83	.82	.16	.23	.94	.80	.70	.70	.65
6	0.50	1.02	0.89	1.16	0.80	1.04	1.07	0.90	0.80	0.70	0.70	0.66
7	.47	.15	.86	0.98	.83	.00	.05	.96	.83	.70	.70	.66
8	.47	0.69	.84	.81	.81	.03	.53	.98	.82	.76	.70	.65
9	.56	.63	.86	.81	.85	.11	.10	1.41	.82	.76	.70	.64
10	.56	.55	.79	.84	.84	1.00	0.93	.94	.81	.73	.68	.64
11	0.57	0.49	0.80	0.76	1.15	0.95	1.52	0.98	0.80	0.71	0.69	0.62
12	.54	.49	.77	.71	0.99	.89	.96	.91	.79	.71	.70	.59
13	.47	.50	.74	.77	.94	.86	.35	.90	.78	.70	.70	.60
14	.49	.46	.72	1.80	.89	.84	.21	1.01	.78	.70	.71	.60
15	.48	.50	.73	.81	.84	.81	.10	0.95	.77	.69	.71	.84
16	0.56	0.49	0.67	1.31	0.78	0.91	1.02	0.92	0.76	0.68	0.69	0.71
17	.54	.50	.70	0.97	.78	.95	0.97	.91	.75	.70	.69	.61
18	.57	.50	.70	1.08	.97	2.17	.95	.91	.81	.70	.69	.58
19	.54	.49	.76	.14	1.02	.27	.93	.90	.78	.74	.68	.58
20	.55	.49	.68	.20	.10	1.65	.89	.89	.77	.73	.68	.57
21	0.59	0.75	0.62	1.06	1.34	1.45	0.88	0.90	0.80	0.71	0.68	0.53
22	.60	.68	.86	.00	.74	.18	.86	.90	.81	.69	.69	.50
23	.58	1.16	1.04	0.96	2.02	.01	.84	.89	.79	.66	.70	.49
24	.55	.05	0.83	.87	1.73	0.93	.78	.91	.77	.63	.69	.49
25	.51	.25	.72	.98	.27	.85	.84	.92	.70	.63	.67	.49
26	0.49	1.16	0.70	0.95	1.33	0.78	0.86	0.92	0.69	0.67	0.64	0.49
27	.50	0.98	.74	.97	.35	2.08	1.16	.91	.70	.68	.64	.49
28	.80	1.09	.72	.92	2.48	1.41	.23	.89	.70	.68	.64	.50
29	.58	0.88	.81	1.01	.02	;24	2.63	.86	.79	.69	.63	.50
30	.56	.77	.85	.00	.13	.05	1.96	.94	.84	.70	–	.50
31	–	.75	–	.93	1.56	–	.47	–	.80	.70	–	.50
Mean	0.55	0.70	0.81	1.00	1.19	1.19	1.24	0.96	0.79	0.70	0.70	0.58
Max.	0.80	1.25	1.31	1.81	2.48	2.27	2.63	1.41	0.90	0.78	0.71	0.84
Min.	0.47	0.43	0.62	0.71	0.78	0.78	0.78	0.91	0.69	0.63	0.63	0.49

WATER YEAR 1971 : Max. 2.63 m. Min. 0.43 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.20	0.90	25	8.20	12	28	17	21	10	6.50	4.30	2.76
2	2.20	1.15	18	11	11	23	60	15	9.10	5.75	4.50	2.35
3	2.50	0.30	8.80	7.90	9.10	22	100	14	7.60	5.00	4.75	2.76
4	2.20	1.15	6.50	7.60	8.50	24	48	12	7.30	4.75	4.50	3.30
5	1.60	0.80	6.25	7.90	7.60	19	22	12	7.00	4.50	4.50	3.50
6	1.00	14	9.70	19	7.00	14	15	10	7.00	4.50	4.50	3.70
7	0.70	18	8.80	12	7.90	13	14	12	7.90	4.50	4.50	3.70
8	0.70	4.30	8.20	7.30	7.30	14	36	12	7.60	6.00	4.50	3.50
9	1.90	3.10	8.80	7.30	8.50	16	16	30	7.60	6.00	4.50	3.30
10	1.90	1.75	6.75	8.20	8.20	13	11	14	7.30	5.25	4.10	3.30
11	2.05	0.90	7.00	6.00	18	11	35	12	7.00	4.75	4.30	2.92
12	1.60	0.90	6.25	4.75	13	9.70	62	10	6.75	4.75	4.50	2.35
13	0.70	1.00	5.50	6.25	11	8.80	27	10	6.50	4.50	4.50	2.50
14	0.90	0.80	5.00	51	10	8.20	21	13	6.50	4.50	4.75	2.50
15	0.80	1.00	5.25	52	8.20	7.30	16	11	6.25	4.30	4.75	8.20
16	1.90	0.90	3.90	25	6.50	10	14	11	6.00	4.10	4.30	4.75
17	1.60	1.00	4.50	12	6.50	11	12	10	5.75	4.50	4.30	2.76
18	2.05	1.00	4.50	15	12	77	11	10	7.30	4.50	4.30	2.20
19	1.60	0.90	6.00	18	14	84	11	10	6.50	5.50	4.10	2.20
20	1.75	0.90	4.10	20	16	42	10	10	6.25	5.25	4.10	2.05
21	2.35	5.75	2.90	15	27	32	9.40	10	7.00	4.75	4.10	1.45
22	2.50	4.10	8.80	13	48	20	8.80	10	7.30	4.30	4.30	1.00
23	2.20	19	14	12	66	13	8.20	10	6.75	3.70	4.50	0.90
24	1.75	14	7.90	9.10	47	11	6.50	10	6.25	3.10	4.30	0.90
25	1.15	23	5.00	12	24	8.50	8.20	11	4.50	3.10	3.90	0.90
26	0.90	19	4.50	11	26	6.50	8.80	11	4.30	3.90	3.30	0.90
27	1.00	12	5.50	12	27	71	19	10	4.50	4.10	3.30	0.90
28	7.00	16	5.00	11	101	30	22	10	4.50	4.10	3.30	1.00
29	2.20	9.40	7.30	13	66	22	113	12	6.75	4.30	3.10	1.00
30	1.90	6.25	8.50	13	74	14	64	11	8.20	4.50	-	1.00
31	-	5.75	-	11	37	-	33	-	7.00	4.50	-	1.00
Total	54.80	89.00	228.20	438.50	745.30	683.00	858.90	364.00	210.25	143.75	122.65	75.55
Mean	1.83	6.10	7.61	14.1	24.0	22.8	27.1	12.1	6.78	4.64	4.23	2.44
Max.	7.00	23	25	52	101	84	113	30	10	6.50	4.75	8.20
Min.	0.70	0.30	2.90	4.75	6.50	6.50	6.50	10	4.30	3.10	3.10	0.90
Runoff - MCM.	4.735	16.330	19.716	37.886	64.394	59.011	74.209	31.450	18.166	12.420	10.597	6.527

WATER YEAR 1971 : Max. 113 Min. 0.30 Mean 11.1 Annual Runoff 355.441 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	18.00	2.96	146				

PING RIVER BASIN

Khlong Suan Mak at Ban Mai, Kamphaeng Phet (P. 26)

Location: Lat. 16°-26'-54" N., Long 99°-25'-57" E., on right bank about 200 meters downstream from Tha Kra Dan Weir and about 15 Kilometers upstream from confluence with Mae Ping River, at Ban Mai, Amphoe Muang, Kamphaeng Phet.

Drainage Area: 968 sq.km.

Type of Gage: Stuff gage

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

Bench Mark: B.M. - P. 26

Location: About 10 meters east of office of station P.26
Elevation: + 6.965 m (A.D.)

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

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

Period of Available Gage Records: 1964-1974

Rating Operation:

Period of Rating: 1964, 1967-1974
Rated by Float: -
Rated by Current Meter: 1964, 1967-1974

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

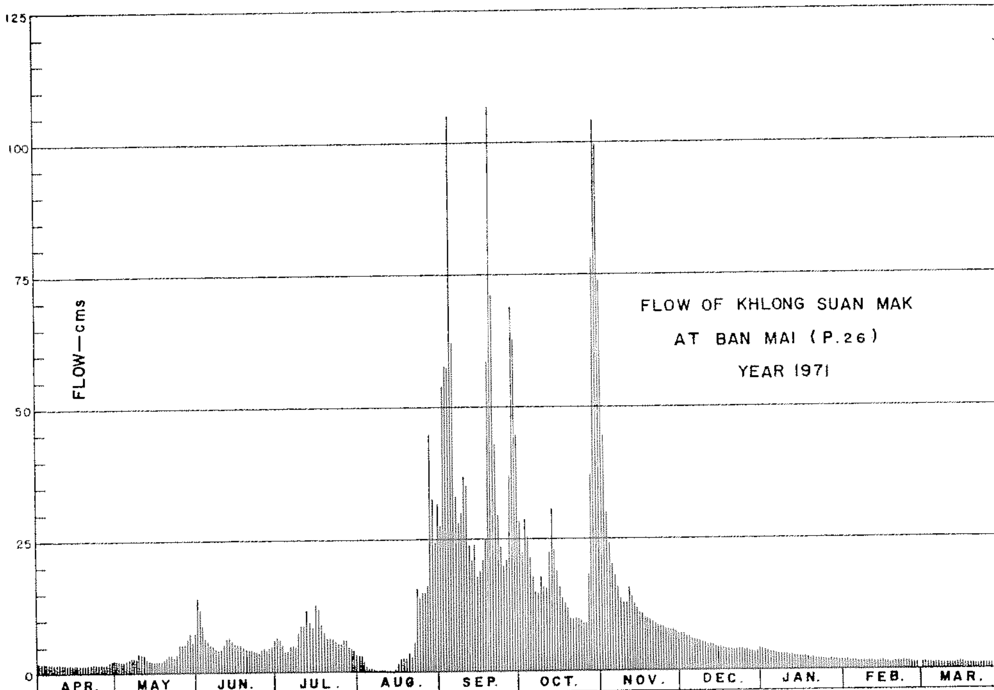
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements, made during 1971. Flow regulated by Tha Kra Dan Weir which built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.91	0.93	1.43	1.11	0.90	1.79	1.81	2.56	1.06	0.87	0.70	0.60
2	.91	.93	.31	.08	.90	2.40	.69	.13	.05	.85	.70	.60
3	.89	.91	.15	.02	.77	.48	.86	1.90	.03	.84	.69	.59
4	.88	.93	.09	0.95	.67	.42	.72	.75	.02	.83	.68	.59
5	.87	.95	.05	.96	.65	3.23	.67	.64	.01	.83	.68	.59
6	0.87	0.98	1.02	1.02	0.64	2.26	1.56	1.56	1.00	0.82	0.66	0.58
7	.86	.98	0.99	.02	.63	1.96	.48	.49	0.99	.81	.66	.58
8	.86	.97	.97	.01	.63	.85	.48	.44	.98	.81	.65	.58
9	.86	1.03	.97	.16	.63	.91	.57	.40	.97	.80	.65	.58
10	.86	.03	.99	.23	.63	2.06	.51	.39	.96	.79	.65	.58
11	0.85	0.99	1.07	1.21	0.61	2.02	1.50	1.48	0.95	0.78	0.65	0.57
12	.85	.95	.10	.34	.61	1.74	.72	.41	.94	.77	.64	.57
13	.85	.93	.10	.28	.60	.65	.93	.35	.93	.77	.64	.57
14	.85	.92	.05	.18	.59	.73	.70	.32	.92	.76	.64	.60
15	.85	.91	.04	.37	.68	.57	.58	.29	.91	.76	.64	.60
16	0.84	0.92	1.03	1.40	0.82	1.59	1.50	1.27	0.91	0.76	0.63	0.58
17	.84	.91	.03	.29	.87	.68	.44	.25	.90	.75	.63	.58
18	.84	.92	.00	.19	.84	.81	.37	.23	.90	.75	.62	.59
19	.85	.94	0.99	.13	.84	2.50	.35	.21	.89	.74	.64	.58
20	.85	.98	.96	.10	.93	3.26	.31	.19	.88	.74	.63	.57
21	0.87	1.01	0.96	1.10	0.85	2.65	1.28	1.17	0.88	0.73	0.63	0.57
22	.88	.01	.95	.09	1.03	2.14	.27	.16	.88	.73	.65	.56
23	.88	0.98	.94	.06	.49	1.88	.27	.14	.89	.72	.65	.56
24	.88	1.04	.93	.03	.41	.74	.24	.13	.88	.72	.63	.55
25	.88	.12	.98	.03	.46	.64	.22	.11	.87	.71	.62	.56
26	0.88	1.12	0.99	1.08	1.46	1.65	1.22	1.10	0.86	0.71	0.62	0.57
27	.88	.12	.97	.05	.53	.81	.65	.11	.85	.71	.61	.55
28	.90	.18	1.00	0.99	2.24	2.68	2.16	.10	.84	.70	.60	.55
29	.94	.21	.02	1.00	1.95	.56	.75	.07	.84	.70	-	.55
30	.91	.12	.08	0.97	.75	.13	3.22	.06	.88	.70	-	.55
31	-	.32	-	.91	.95	-	.15	-	.89	.70	-	.56
Mean	0.87	1.01	1.04	1.11	1.04	2.09	1.68	1.38	0.92	0.76	0.65	0.57
Max.	0.94	1.32	1.43	1.40	2.24	3.26	3.22	2.56	1.06	0.87	0.70	0.60
Min.	0.84	0.91	0.93	0.91	0.59	1.57	1.22	1.06	0.84	0.70	0.60	0.55

WATER YEAR 1971 : Max. 3.26 m. Min. 0.55 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.90	2.29	14	6.80	3.30	26	27	62	7.02	4.11	2.00	1.30
2	1.90	2.29	11	6.22	3.30	54	22	40	6.85	3.85	2.00	1.30
3	1.82	2.03	7.60	5.08	1.70	58	29	30	6.51	3.72	1.93	1.23
4	1.74	2.29	6.41	4.00	0.76	55	25	24	6.34	3.59	1.86	1.23
5	1.66	2.55	5.65	4.14	0.60	105	21	20	6.17	3.59	1.86	1.23
6	1.66	2.94	5.08	5.08	0.52	46	18	18	6.00	3.46	1.72	1.16
7	1.58	2.94	4.56	5.08	0.44	33	15	16	5.85	3.33	1.72	1.16
8	1.58	2.81	4.28	4.89	0.44	28	15	14	5.70	3.33	1.65	1.16
9	1.58	3.74	4.28	7.80	0.44	31	18	13	5.55	3.20	1.65	1.16
10	1.58	3.74	4.56	9.29	0.44	37	16	13	5.40	3.08	1.65	1.16
11	1.50	3.07	6.03	8.83	0.28	35	16	16	5.25	2.96	1.65	1.09
12	1.50	2.55	6.60	12	0.28	24	23	14	5.10	2.84	1.58	1.09
13	1.50	2.29	6.60	10	0.20	21	31	13	4.95	2.84	1.58	1.09
14	1.50	2.16	5.65	8.20	0.18	24	23	12	4.80	2.72	1.58	1.30
15	1.50	2.03	5.46	12	0.84	18	19	11	4.65	2.72	1.58	1.30
16	1.42	2.16	5.27	13	2.26	19	16	11	4.65	2.72	1.51	1.16
17	1.42	2.03	5.27	11	2.91	22	14	10	4.50	2.60	1.51	1.16
18	1.42	2.16	4.70	8.40	2.52	27	13	10	4.50	2.60	1.44	1.23
19	1.50	2.42	4.56	7.20	2.52	59	12	9.70	4.37	2.48	1.58	1.16
20	1.50	2.94	4.14	6.60	3.72	107	10	9.32	4.24	2.48	1.51	1.09
21	1.66	3.38	4.14	6.60	2.65	67	10	8.96	4.24	2.36	1.51	1.09
22	1.74	3.38	4.00	6.41	5.27	41	10	8.78	4.24	2.36	1.65	1.02
23	1.74	2.94	3.86	5.84	16	29	10	8.42	4.37	2.24	1.65	1.02
24	1.74	3.92	3.72	5.27	14	24	9.52	8.24	4.24	2.24	1.51	0.95
25	1.74	5.44	4.42	5.27	15	20	9.06	7.88	4.11	2.12	1.44	1.02
26	1.74	5.44	4.56	6.22	15	21	9.06	7.70	3.98	2.12	1.44	1.09
27	1.74	5.44	4.28	5.65	17	27	21	7.88	3.85	2.12	1.37	0.95
28	1.90	6.76	4.70	4.56	45	69	42	7.70	3.72	2.00	1.30	0.95
29	2.42	7.46	5.08	4.70	32	62	73	7.19	3.72	2.00	–	0.95
30	2.03	5.44	6.22	4.28	24	40	104	7.02	4.24	2.00	–	0.95
31	–	10	–	3.44	32	–	99	–	4.37	2.00	–	1.02
Total	50.21	111.03	166.68	213.85	245.57	1,229.00	779.64	445.79	153.48	85.78	45.43	34.77
Mean	1.67	3.58	5.56	6.90	7.92	41.0	25.1	14.8	4.95	2.77	1.62	1.12
Max.	2.42	10	14	13	45	107	104	62	7.02	4.11	2.00	1.30
Min.	1.42	2.03	3.72	3.44	0.18	18	9.06	7.02	3.72	2.00	1.30	0.95
Runoff - mcm.	4.338	9.593	14.401	18.477	21.217	106.186	67.361	38.516	13.261	7.411	3.925	3.004

WATER YEAR 1971 : Max. 107 Min. 0.95 Mean 9.76 Annual Runoff 307.690 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 20	09.00	3.51	130				

PING RIVER BASIN

Huai Mae Nai at Ban Mae Nai, Chiang Mai (P. 27A)

Location: Lat. 18°-53'-18" N., Long 98°-55'-00" E., On left bank about 3 kilometers upstream from station P.27 Ban Mae Nai, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 18 sq.km.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. - H.S./P.27 A

Location: Near the top of vertical staff gage.
Elevation: + 3.263 m (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1968 to date
Rated by Float: -
Rated by Current Meter: 1968 to date

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

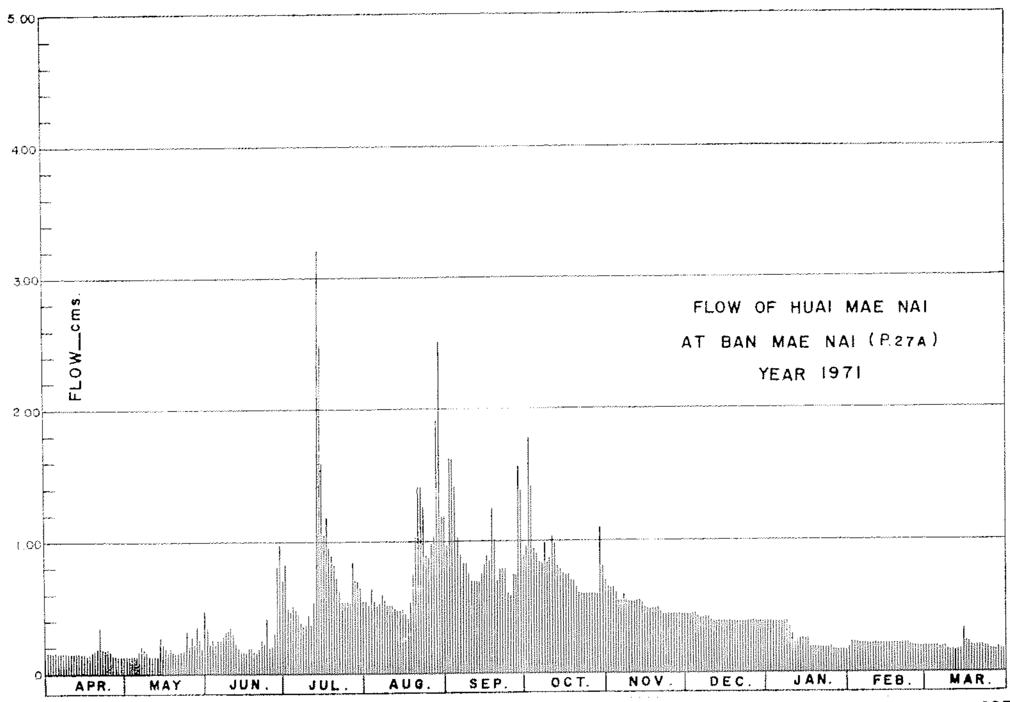
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by a series of small diversion dams which built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	0.24	0.34	0.46	0.40	0.48	0.49	0.42	0.37	0.35	0.29	0.28
2	.25	.24	.30	.38	.39	.58	.60	.42	.37	.35	.30	.28
3	.25	.24	.31	.38	.42	.58	.51	.42	.37	.35	.30	.28
4	.25	.24	.29	.39	.40	.52	.48	.41	.37	.35	.30	.28
5	.25	.24	.31	.38	.39	.49	.47	.40	.36	.35	.29	.28
6	0.25	0.27	0.31	0.37	0.40	0.47	0.46	0.40	0.36	0.35	0.29	0.27
7	.25	.29	.32	.35	.41	.46	.46	.41	.36	.35	.29	.27
8	.25	.28	.33	.34	.40	.46	.49	.40	.36	.35	.29	.27
9	.25	.25	.33	.35	.39	.44	.46	.40	.36	.33	.29	.26
10	.25	.24	.34	.37	.39	.43	.47	.40	.35	.32	.29	.26
11	0.25	0.24	0.32	0.34	0.39	0.43	0.50	0.40	0.35	0.30	0.29	0.26
12	.25	.24	.30	.40	.38	.43	.48	.40	.35	.28	.29	.26
13	.25	.24	.28	.42	.38	.43	.45	.40	.35	.28	.29	.26
14	.25	.32	.26	.75	.38	.45	.45	.39	.35	.28	.29	.27
15	.25	.29	.26	.57	.38	.46	.44	.38	.35	.28	.29	.33
16	0.24	0.28	0.26	0.50	0.37	0.47	0.44	0.38	0.35	0.28	0.29	0.30
17	.25	.26	.28	.52	.36	.46	.44	.38	.35	.27	.29	.29
18	.26	.28	.28	.48	.41	.53	.43	.38	.35	.27	.29	.28
19	.27	.26	.26	.47	.46	.47	.43	.38	.35	.27	.29	.28
20	.28	.26	.26	.45	.52	.43	.42	.38	.35	.27	.29	.28
21	0.34	0.26	0.28	0.43	0.55	0.45	0.41	0.37	0.35	0.27	0.29	0.28
22	.27	.26	.31	.41	.55	.45	.41	.37	.35	.27	.29	.28
23	.27	.27	.29	.40	.52	.45	.41	.37	.35	.27	.29	.27
24	.27	.33	.36	.40	.47	.41	.41	.37	.35	.27	.28	.27
25	.26	.28	.27	.40	.47	.41	.41	.37	.35	.27	.28	.26
26	0.24	0.32	0.29	0.40	0.49	0.44	0.41	0.37	0.35	0.26	0.28	0.26
27	.24	.29	.33	.46	.47	.44	.41	.37	.35	.26	.28	.26
28	.24	.34	.45	.43	.63	.57	.41	.37	.35	.26	.28	.27
29	.24	.30	.49	.43	.68	.54	.50	.38	.35	.26	.28	.26
30	.24	.27	.43	.42	.52	.47	.44	.37	.35	.26	-	.26
31	-	.38	-	.40	.52	-	.43	-	.35	.26	-	.26
Mean	0.25	0.27	0.31	0.43	0.45	0.47	0.45	0.39	0.35	0.29	0.29	0.27
Max.	0.34	0.38	0.49	0.75	0.68	0.58	0.60	0.42	0.37	0.35	0.30	0.33
Min.	0.24	0.24	0.26	0.34	0.36	0.41	0.41	0.37	0.35	0.26	0.26	0.26

WATER YEAR 1971 : Max. 0.75 m. Min. 0.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.15	0.13	0.35	0.83	0.54	0.93	0.98	0.64	0.44	0.38	0.21	0.19
2	0.15	0.13	0.22	0.48	0.51	1.62	1.77	0.64	0.44	0.38	0.22	0.19
3	0.15	0.13	0.25	0.48	0.64	1.62	1.14	0.64	0.44	0.38	0.22	0.19
4	0.15	0.13	0.21	0.51	0.54	1.18	0.93	0.59	0.44	0.38	0.22	0.19
5	0.15	0.13	0.25	0.48	0.51	0.98	0.88	0.54	0.41	0.38	0.21	0.19
6	0.15	0.18	0.25	0.44	0.54	0.88	0.83	0.54	0.41	0.38	0.21	0.18
7	0.15	0.21	0.28	0.38	0.59	0.83	0.83	0.59	0.41	0.38	0.21	0.18
8	0.15	0.19	0.32	0.35	0.54	0.83	0.98	0.54	0.41	0.38	0.21	0.18
9	0.15	0.15	0.32	0.38	0.51	0.74	0.83	0.54	0.41	0.32	0.21	0.16
10	0.15	0.13	0.35	0.44	0.51	0.69	0.88	0.54	0.38	0.28	0.21	0.16
11	0.15	0.13	0.28	0.35	0.51	0.69	1.03	0.54	0.38	0.22	0.21	0.16
12	0.15	0.13	0.22	0.54	0.48	0.69	0.92	0.54	0.38	0.25	0.21	0.16
13	0.15	0.13	0.19	0.64	0.48	0.69	0.78	0.54	0.38	0.25	0.21	0.16
14	0.15	0.28	0.16	3.20	0.48	0.78	0.78	0.51	0.38	0.25	0.21	0.18
15	0.15	0.21	0.16	1.56	0.48	0.83	0.74	0.48	0.38	0.25	0.21	0.32
16	0.13	0.19	0.16	1.03	0.44	0.88	0.74	0.48	0.38	0.25	0.21	0.22
17	0.15	0.16	0.19	1.18	0.41	0.83	0.74	0.48	0.38	0.18	0.21	0.21
18	0.16	0.19	0.19	0.93	0.59	1.25	0.69	0.48	0.38	0.18	0.21	0.19
19	0.18	0.16	0.16	0.88	0.83	0.88	0.69	0.48	0.38	0.18	0.21	0.19
20	0.19	0.16	0.16	0.79	1.18	0.69	0.64	0.48	0.38	0.18	0.21	0.19
21	0.35	0.16	0.19	0.69	1.41	0.78	0.59	0.44	0.38	0.18	0.21	0.19
22	0.18	0.16	0.25	0.59	1.41	0.78	0.59	0.44	0.38	0.18	0.21	0.19
23	0.18	0.18	0.21	0.54	1.18	0.78	0.59	0.44	0.38	0.18	0.21	0.18
24	0.18	0.32	0.41	0.54	0.88	0.59	0.59	0.44	0.38	0.18	0.19	0.18
25	0.16	0.19	0.18	0.54	0.88	0.59	0.59	0.44	0.38	0.18	0.19	0.16
26	0.13	0.28	0.21	0.54	0.98	0.74	0.59	0.44	0.38	0.16	0.19	0.16
27	0.13	0.21	0.32	0.83	0.88	0.74	0.59	0.44	0.38	0.16	0.19	0.16
28	0.13	0.35	0.79	0.69	2.05	1.56	0.59	0.44	0.38	0.16	0.19	0.18
29	0.13	0.22	0.98	0.69	2.51	1.34	1.10	0.43	0.38	0.16	0.19	0.16
30	0.13	0.18	0.69	0.64	1.18	0.88	0.74	0.44	0.38	0.16	–	0.16
31	–	0.48	–	0.54	1.18	–	0.69	–	0.38	0.16	–	0.16
Total	4.76	5.98	8.90	22.70	25.85	27.29	25.06	15.25	12.17	7.69	6.00	5.67
Mean	0.16	0.19	0.31	0.73	0.83	0.80	0.81	0.51	0.39	0.25	0.21	0.18
Max.	0.35	0.48	0.98	3.20	2.51	1.62	1.77	0.64	0.44	0.38	0.22	0.32
Min.	0.13	0.13	0.16	0.35	0.41	0.59	0.59	0.44	0.38	0.16	0.19	0.16
Runoff - mcm.	0.411	0.517	0.77	1.961	2.233	2.357	2.165	1.318	1.051	0.664	0.518	0.490

WATER YEAR 1971 : Max. 3.20 Min. 0.13 Mean 0.459 Annual Runoff 14.456 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 14	05.00	1.19	14				

PING RIVER BASIN

Nam Ngat River at Ban Mai, Chiang Mai (P. 28)

Location: Lat. 19^{0}–10'–12" N., Long 99^{0}–03'–06" E., on left bank about 2 kilometers upstream from Mae Ngat Weir, at Ban Mai, Amphoe Mae Taeng, Chiang Mai.

Drainage Area: 1,261 sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – RID

Location: Near the vertical staff gage.
Elevation: + 6.692 m (A.D.)

Gage Reading Frequency: 6–time daily readings at 06.00, 09.00, 12.00, 15.00, 18.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 6 readings.

Period of Available Gage Records: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: –
Rated by Current Meter: 1966 to date

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

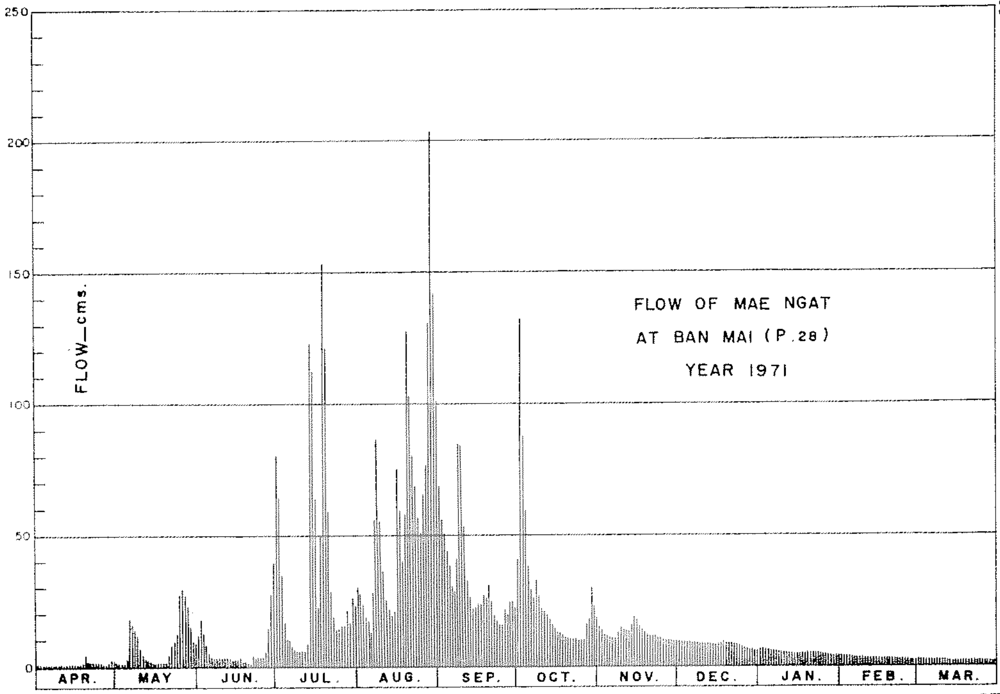
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage–discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Mae Ngat Weir which built by the local residents for irrigation. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.92	0.97	1.47	2.56	1.85	2.31	2.06	1.53	1.39	1.31	1.22	1.13
2	.91	.94	.59	2.21	.79	.22	3.13	.49	.38	.31	.22	.13
3	.90	.92	.42	1.81	.66	.15	2.57	.46	.38	.30	.20	.14
4	.90	.92	.26	1.51	.60	.05	.20	.44	.37	.28	.19	.14
5	.90	1.01	.20	1.39	.58	1.95	1.96	.42	.37	.28	.19	.14
6	0.90	1.61	1.14	1.40	1.45	1.83	1.81	1.41	1.36	1.28	1.18	1.14
7	.90	.56	.13	1.31	2.07	.81	.78	.41	.36	.28	.18	.14
8	.90	.47	.13	1.26	.63	2.61	.90	.48	.35	.27	.18	.14
9	.90	.41	.12	1.24	.39	.61	.75	.52	.35	.26	.18	.13
10	.90	.23	.12	1.24	1.99	.22	.68	.50	.35	.26	.18	.13
11	0.90	1.13	1.13	1.26	1.85	1.95	1.66	1.49	1.35	1.25	1.18	1.12
12	.89	.07	.13	1.25	.74	.80	.65	.50	.35	.25	.18	.12
13	.89	.04	.10	1.37	.67	.77	.60	.56	.33	.25	.18	.10
14	.89	.02	.06	3.04	.62	.68	.56	.63	.33	.24	.18	.10
15	.90	.00	.09	2.81	.64	.71	.50	.60	.33	.24	.17	.11
16	0.90	0.99	1.10	2.08	2.50	1.74	1.48	1.53	1.33	1.24	1.17	1.11
17	.90	1.02	.11	1.69	.24	.74	.47	.49	.34	.24	.16	.11
18	.89	.01	.02	2.44	.01	.81	.45	.47	.38	.24	.16	.10
19	1.19	.00	0.99	3.34	.43	.77	.43	.46	.36	.24	.16	.10
20	.02	.03	.97	2.41	3.08	.86	.42	.44	.35	.24	.16	.10
21	0.98	1.18	0.95	1.99	2.59	1.74	1.43	1.43	1.35	1.24	1.15	1.10
22	.96	.36	1.19	1.73	.55	.65	.42	.43	.35	.24	.15	.10
23	.95	.39	.10	1.59	.31	.59	.41	.42	.34	.24	.15	.10
24	.94	.56	.13	1.49	.25	.54	.40	.41	.33	.23	.14	.10
25	.94	.81	.12	1.53	.17	.52	.40	.40	.31	.22	.14	.10
26	0.91	1.85	1.19	1.55	2,48	1.68	1.41	1.40	1.30	1.22	1.13	1.10
27	.90	.76	.27	1.52	.55	.63	.58	.40	.28	.22	.13	.10
28	.92	.68	.66	1.66	3.40	.76	.62	.40	.28	.21	.13	.10
29	1.03	.44	.87	1.56	.77	.76	.85	.40	.28	.21	.13	.10
30	1.00	.38	2.07	1.77	.15	.68	.69	.40	.28	.23	–	.10
31	–	.34	–	1.71	2.61	–	.62	–	.28	.23	–	.10
Mean	0.933	1.26	1.23	1.80	2.24	1.87	1.71	1.46	1.38	1.25	1.17	1.11
Max.	1.19	1.85	2.07	3.34	3.77	2.61	3.13	1.63	1.39	1.31	1.22	1.14
Min.	0.89	0.92	0.95	1.24	1.45	1.52	1.40	1.40	1.28	1.21	1.13	1.10

WATER YEAR 1971 : Max. 3,77 m. Min. 0,89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.98	1.43	13	80	30	60	43	15	10	7.20	4.56	2.46
2	0.89	1.16	18	53	27	54	132	14	9.76	7.20	4.56	2.46
3	0.80	0.98	11	28	21	49	81	12	9.76	6.80	4.00	2.68
4	0.80	0.98	6.28	14	18	42	52	12	9.44	6.24	3.78	2.68
5	0.80	1.83	4.90	10	17	36	36	11	9.44	6.24	3.78	2.68
6	0.80	18	3.76	10	12	29	28	11	9.12	6.24	3.56	2.68
7	0.80	16	3.57	7.52	43	28	26	11	9.12	6.24	3.56	2.68
8	0.80	13	3.57	6.28	86	84	33	13	8.80	5.96	3.56	2.68
9	0.80	11	3.38	5.82	67	84	25	15	8.80	5.68	3.56	2.46
10	0.80	5.59	3.38	5.82	38	54	22	14	8.80	5.68	3.56	2.46
11	0.80	3.57	3.57	6.28	30	36	21	14	8.80	5.40	3.56	2.24
12	0.72	2.61	3.57	6.05	24	27	20	14	8.80	5.40	3.56	2.24
13	0.72	2.22	3.00	9.44	21	26	18	16	8.16	5.40	3.56	1.80
14	0.72	1.96	2.48	123	19	22	16	19	8.16	5.12	3.56	1.80
15	0.80	1.70	2.87	102	20	23	14	18	8.16	5.12	3.34	2.02
16	0.80	1.61	3.00	44	75	24	13	15	8.16	5.12	3.34	2.02
17	0.80	1.96	3.19	22	55	24	13	14	8.48	5.12	3.12	2.02
18	0.72	1.83	1.96	71	39	28	12	13	9.76	5.12	3.12	1.80
19	4.71	1.70	1.61	153	70	26	11	12	9.12	5.12	3.12	1.80
20	1.96	2.09	1.43	68	127	31	11	12	8.80	5.12	3.12	1.80
21	1.52	4.52	1.25	38	83	24	11	12	8.80	5.12	2.90	1.80
22	1.34	9.12	4.71	24	79	20	11	12	8.80	5.12	2.90	1.80
23	1.25	10	3.00	18	60	18	11	11	8.40	5.12	2.90	1.80
24	1.16	16	3.57	14	56	16	10	11	8.00	4.84	2.68	1.80
25	1.16	28	3.38	15	50	15	10	10	7.20	4.56	2.68	1.80
26	0.89	30	4.71	16	74	22	11	10	6.80	4.56	2.46	1.80
27	0.80	25	6.51	15	79	19	17	10	6.24	4.56	2.46	1.80
28	1.52	22	21	21	159	25	19	10	6.24	4.28	2.46	1.80
29	2.09	12	31	16	203	25	30	10	6.24	4.28	2.46	1.80
30	1.70	9.76	43	26	134	22	22	10	6.24	4.84	-	1.80
31	-	8.48	-	23	84	-	19	-	6.24	4.84	-	1.80
Total	34.45	266.10	219.65	1,051.21	1,900	993	798	381	258.64	167.64	95.78	65.26
Mean	1.15	8.58	7.32	33.9	61.3	33.1	25.7	12.7	8.34	5.41	3.30	2.10
Max.	4.71	30	43	153	203	84	132	19	10	7.20	4.56	2.68
Min.	0.72	0.98	1.25	5.82	12	15	10	10	6.24	4.28	2.46	1.80
Runoff - mcm.	2.976	22.991	18.978	90.825	164.160	85.795	68.947	32.918	22.346	14.484	8.275	5.638

WATER YEAR 1972 : Max. 203 Min. 0.72 Mean 17.0 Annual Runoff 538.335 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.29, 71	10.00	4.25	273				

PING RIVER BASIN

Mae Li River at highway bridge, Lumphun (P. 29)

Location: Lat. 18°-18'-35" N., Long 98°-49'-35" E., on right bank at Kaeo Sonthi Bridge, Amphoe Ban Hong, Lumphun.

Drainage Area: 1970 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M.-P.29

Location: About 25 meters from the top of virtical staff gage.
Elevation: + 2.483 m. (A.D.)

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

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

Period of Available Gage Records: 1969 to date

Rating Operation:

Period of Rating: 1969 to date
Rated by Float: -
Rated by Current Meter: 1969 to date

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

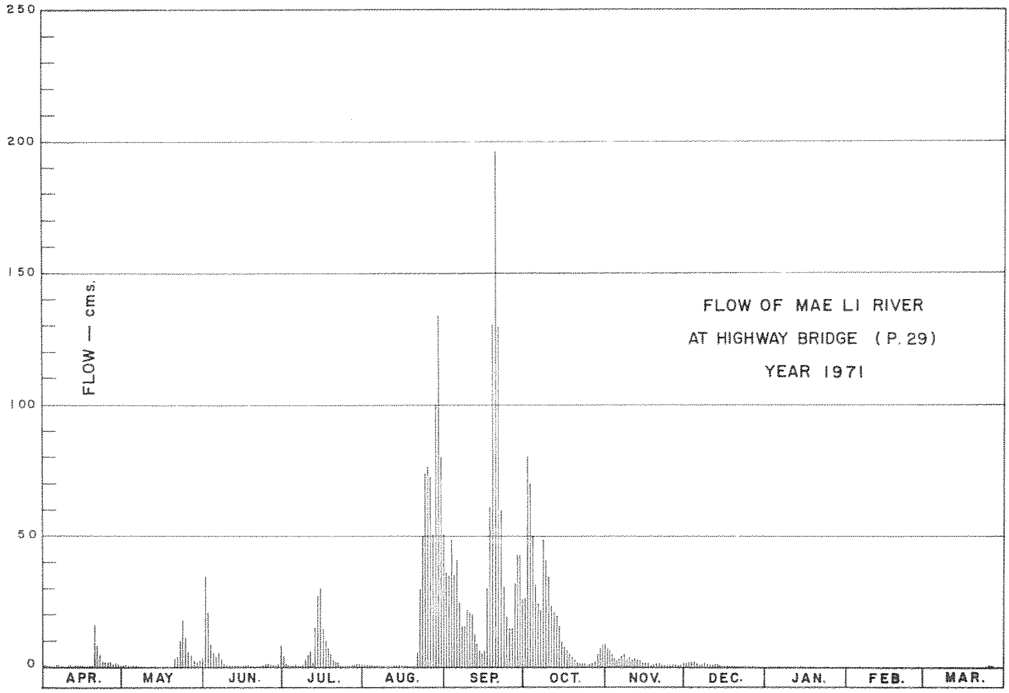
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.44	0.56	1.52	1.02	0.63	1.54	1.42	1.16	0.75	0.46	0.40	0.37
2	.43	.53	.39	.72	.63	.53	.92	.12	.77	.45	.41	.37
3	.44	.49	.14	.65	.63	.68	.82	.07	0.81	.46	.40	.37
4	.43	.46	.06	.61	.62	.53	.72	0.98	.83	.46	.40	.37
5	.43	.49	0.99	.60	.61	.59	.55	.92	.79	.46	.39	.37
6	0.43	0.51	1.01	0.63	0.61	1.41	1.41	0.88	0.74	0.49	0.39	0.37
7	.44	.51	0.95	.59	.62	.29	.37	.95	.73	.51	.38	.37
8	.43	.51	.82	.55	.61	.29	.67	1.07	.78	.52	.39	.37
9	.43	.49	.75	.59	.60	.38	.60	0.98	.77	.53	.39	.37
10	.44	.45	.71	.99	.60	.36	.47	.97	.72	.52	.39	.37
11	0.44	0.42	0.68	1.05	0.60	1.36	1.39	0.97	0.69	0.49	0.39	0.37
12	.43	.42	.65	0.75	.60	.24	.37	.99	.66	.45	.38	.37
13	.44	.41	.62	1.25	.59	.18	.34	.92	.63	.43	.38	.37
14	.45	.44	.61	.42	.58	.10	.29	.88	.62	.43	.38	.38
15	.46	.47	.57	.48	.58	.04	.21	.83	.61	.45	.38	.38
16	0.46	0.47	0.57	1.29	0.58	*1.07	1.41	0.79	0.60	0.44	0.38	0.37
17	.46	.45	.61	.22	.57	* .40	.11	.76	.60	.48	.38	.38
18	.45	.47	.58	.15	.60	* .66	.05	.73	.60	.46	.38	.38
19	.51	.47	.54	.07	.60	*2.27	0.98	.70	.61	.43	.38	.38
20	1.28	.55	.54	0.92	.59	* .44	.90	.64	.61	.42	.37	.37
21	1.11	0.97	0.53	0.84	0.62	*1.99	0.90	0.65	0.59	0.43	0.38	0.37
22	0.97	.98	.55	.76	1.25	.63	.74	.67	.50	.45	.37	.38
23	.85	1.32	.55	.70	.66	.49	.73	.71	.49	.42	.37	.38
24	.78	1.30	.73	.67	.88	.37	.69	.69	.49	.42	.37	.38
25	.72	1.13	.74	.65	.89	.28	.76	.71	.47	.42	.38	.38
26	0.77	1.03	0.69	0.64	1.86	1.27	0.73	0.72	0.47	0.41	0.38	0.38
27	.73	0.96	.58	.63	1.69	.41	.79	.73	.47	.42	.38	.39
28	.69	.82	.55	.62	2.04	.62	.85	.69	.46	.40	.37	.39
29	.62	.79	.64	.62	2.21	.62	1.11	.72	.47	.40	.37	.39
30	.59	.83	1.14	.64	1.90	.43	.15	.74	.46	.40	-	.40
31	-	.93	-	.63	1.66	-	.17	-	.46	.40	-	.39
Mean	0.58	0.66	0.78	0.86	0.99	1.47	1.12	0.84	0.61	0.43	0.38	0.37
Max.	1.28	1.32	1.52	1.48	2.21	2.44	1.92	1.16	0.83	0.49	0.41	0.40
Min.	0.43	0.41	0.53	.55	0.57	1.04	0.73	0.64	0.46	0.40	0.37	0.37

WATER YEAR 1971 : Max. 2.44 m. Min. 0.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.35	0.80	34	5.28	1.13	36	26	8.99	1.89	0.42	0.23	0.16
2	0.32	0.67	23	1.66	1.13	35	80	7.86	2.05	0.38	0.26	0.16
3	0.35	0.51	8.43	1.20	1.13	49	66	6.54	2.39	0.42	0.23	0.16
4	0.32	0.42	6.29	1.02	1.08	35	54	4.49	2.60	0.42	0.23	0.16
5	0.32	0.51	4.64	0.97	1.02	40	36	3.64	2.20	0.42	0.21	0.16
6	0.32	0.58	5.03	1.12	1.02	25	25	3.14	1.82	0.51	0.21	0.16
7	0.35	0.58	4.06	0.93	1.08	16	22	4.06	1.74	0.58	0.18	0.16
8	0.32	0.58	2.49	0.75	1.02	16	48	6.54	2.13	0.63	0.21	0.16
9	0.32	0.51	1.89	0.93	0.97	23	41	4.49	2.05	0.67	0.21	0.16
10	0.35	0.38	1.59	4.64	0.97	21	30	4.35	1.66	0.63	0.21	0.16
11	0.35	0.29	1.40	6.04	0.97	21	23	4.35	1.46	0.51	0.21	0.16
12	0.32	0.29	1.24	1.89	0.97	13	22	4.64	1.29	0.38	0.18	0.16
13	0.35	0.26	1.08	13	0.93	9.56	20	3.64	1.13	0.32	0.18	0.16
14	0.38	0.35	1.02	26	0.88	7.30	16	3.14	1.08	0.32	0.18	0.18
15	0.42	0.45	0.84	30	0.88	5.79	11	2.61	1.02	0.38	0.18	0.18
16	0.42	0.45	0.84	16	0.88	6.62	8.43	2.20	1.02	0.35	0.18	0.16
17	0.42	0.38	1.02	11	0.84	24	7.58	1.97	0.97	0.48	0.18	0.18
18	0.38	0.45	0.88	8.71	0.97	49	6.04	1.74	0.97	0.42	0.18	0.18
19	0.58	0.45	0.72	6.54	0.97	153	4.49	1.51	1.02	0.32	0.18	0.18
20	16	0.75	0.72	3.64	0.93	196	3.35	1.19	1.02	0.29	0.16	0.16
21	7.58	4.35	0.67	2.71	1.08	93	2.28	2.24	0.93	0.32	0.18	0.16
22	4.35	4.49	0.75	1.97	13	44	1.82	1.35	0.54	0.38	0.16	0.18
23	2.81	18	0.75	1.51	47	31	1.74	1.59	0.51	0.29	0.16	0.18
24	2.13	17	1.74	1.35	74	21	1.82	1.46	0.51	0.29	0.16	0.18
25	1.66	8.15	1.84	1.24	76	15	1.89	1.59	0.45	0.29	0.18	0.18
26	2.05	5.54	1.46	1.19	71	15	1.74	1.66	0.45	0.26	0.18	0.18
27	1.74	4.21	0.88	1.13	50	25	2.20	1.74	0.45	0.29	0.18	0.21
28	1.46	2.49	0.75	1.08	100	43	2.81	1.46	0.42	0.23	0.16	0.21
29	1.08	2.20	1.19	1.08	134	43	7.58	1.66	0.45	0.23	0.16	0.21
30	0.93	2.60	8.43	1.19	77	26	8.71	1.82	0.42	0.23	–	0.23
31	–	3.78	–	1.13	49	–	9.27	–	0.42	0.23	–	0.21
Total	48.73	82.47	119.64	156.90	711.85	1,137.27	591.75	97.66	37.06	11.89	5.51	5.43
Mean	1.62	2.66	3.99	4.96	23.0	37.9	19.1	3.25	1.19	0.38	0.19	0.17
Max.	16	18	34	30	134	196	80	8.99	2.60	0.51	0.26	0.23
Min.	0.32	0.26	0.67	0.75	0.84	5.79	1.74	1.19	0.42	0.23	0.16	0.16
Runoff – mcm.	4.210	7.125	10.336	13.556	61.503	98.260	51.127	8.437	3.201	1.027	0.476	0.469

WATER YEAR 1971 : Max. 196 Min. 0.16 Mean 8.21 Annual Runoff 259.732 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 20	06.00	2.55	229				

PING RIVER BASIN

Mae Kuang River at Ban Kiang Kha Mai, Chiang Mai (P. 30)

Location: Lat. 18°-56'-35" N., Long 99°-08'-20" E., on right bank at Ban Kiang Kha Mai, Amphoe Doi Saket, Chiang Mai.

Drainage Area: 466 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 344.544 m. (M.S.L.)

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

Location: Infront of automatic gage building.
Elevation: + 349.874 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: 1967 to date

Rating Operation:

Period of Rating: 1967-1973
Rated by Float: -
Rated by Current Meter: 1967-1973

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

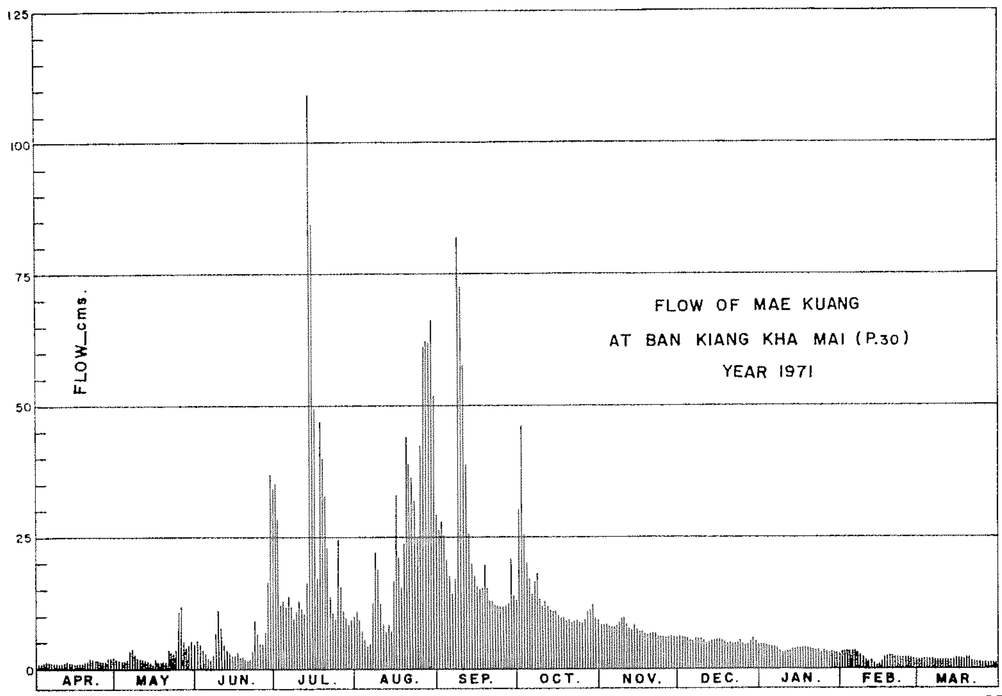
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	345.01	345.03	345.27	346.12	345.61	346.01	346.15	345.54	345.44	345.39	345.31	345.24
2	.01	.02	.24	345.81	.52	.05	.40	.53	.44	.37	.31	.24
3	.01	.02	.16	.54	.46	.01	345.95	.52	.43	.37	.31	.24
4	.01	.01	.11	.56	.42	345.88	.84	.52	.41	.35	.31	.24
5	.00	.01	.08	.52	.36	.81	.78	.51	.40	.35	.31	.24
6	345.00	345.18	345.06	345.61	345.42	345.72	345.71	345.51	345.40	345.34	345.31	345.23
7	.00	.20	.09	.54	.85	.66	.79	.51	.41	.34	.31	.23
8	344.99	.10	.31	.44	.92	346.90	.81	.53	.42	.32	.29	.24
9	345.00	.05	.50	.49	.70	.83	.68	.59	.42	.31	.25	.23
10	.00	.05	.29	.56	.60	.41	.66	.58	.41	.30	.24	.23
11	345.01	345.04	345.27	345.52	345.54	346.20	345.67	345.53	345.38	345.31	345.22	345.23
12	.02	.02	.19	.47	.50	.03	.65	.50	.40	.31	.24	.23
13	.01	344.99	.14	.57	.52	345.88	.62	.50	.40	.32	.20	.23
14	.00	.98	.11	347.14	.45	.79	.61	.52	.42	.32	.16	.24
15	344.99	.97	.08	346.26	.78	.73	.60	.48	.41	.33	.16	.24
16	344.99	345.05	345.12	345.84	346.17	345.74	345.59	345.47	345.42	345.33	345.21	345.24
17	.99	.00	.11	.67	345.73	.74	.58	.47	.41	.34	.26	.23
18	.99	344.99	.09	346.42	.76	.86	.57	.46	.40	.33	.26	.23
19	345.04	.99	.08	.19	346.29	.69	.57	.46	.39	.33	.25	.24
20	.07	345.02	.04	.02	.37	.67	.57	.47	.40	.33	.25	.24
21	345.05	345.17	345.05	345.81	346.24	345.67	345.56	345.47	345.39	345.32	345.25	345.21
22	.06	.14	.19	.68	.23	.65	.57	.46	.39	.32	.25	.20
23	.04	.12	.43	.58	.05	.64	.56	.45	.40	.32	.25	.20
24	.04	.21	.33	.56	345.93	.64	.55	.45	.40	.31	.25	.20
25	.03	.29	.24	346.00	346.50	.65	.54	.45	.38	.32	.25	.20
26	345.02	345.53	345.21	345.71	346.63	345.64	345.56	345.44	345.38	345.31	345.25	345.20
27	.01	.22	.27	.60	.65	.67	.61	.45	.37	.31	.25	.20
28	.05	.20	.51	.58	.63	.89	.60	.46	.38	.31	.25	.20
29	.05	.24	346.16	.52	.70	.71	.66	.45	.42	.30	.25	.20
30	.04	.27	.10	.58	.31	.64	.58	.45	.40	.30	-	.20
31	-	.24	-	.59	.09	-	.57	-	.37	.30	-	.20
Mean	345.02	345.11	345.26	345.76	345.79	345.88	345.68	345.49	345.40	345.33	345.25	345.22
Max.	345.07	345.53	346.16	347.14	346.70	346.90	346.40	345.59	345.44	345.39	345.31	345.24
Min.	344.99	344.97	345.04	345.52	345.36	345.64	345.54	345.44	345.37	345.30	345.16	345.20

WATER YEAR 1971 : Max. 347.14 m. Min. 345.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.32	1.56	5.40	35	11	26	32	8.92	6.24	4.98	3.22	1.92
2	1.32	1.44	4.80	21	8.36	28	46	8.64	6.24	4.54	3.22	1.92
3	1.32	1.44	3.36	12	6.76	26	23	8.36	5.98	4.54	3.22	1.92
4	1.32	1.32	2.56	13	5.72	20	19	8.36	5.46	4.10	3.22	1.92
5	1.20	1.32	2.16	11	4.32	18	17	8.08	5.20	4.10	3.22	1.92
6	1.20	3.68	1.92	14	5.72	14	14	8.08	5.20	3.88	3.22	1.74
7	1.20	4.00	2.28	12	19	12	17	8.08	5.46	3.88	3.22	1.74
8	1.12	2.40	6.22	9.28	22	82	18	8.64	5.72	3.44	2.82	1.92
9	1.20	1.80	11	11	14	76	13	10	5.72	3.22	2.10	1.74
10	1.20	1.80	8.80	13	11	47	12	10	5.46	3.00	1.92	1.74
11	1.32	1.68	5.40	11	8.92	35	13	8.64	4.76	3.22	1.56	1.74
12	1.44	1.44	3.84	10	7.80	27	12	7.80	5.20	3.22	1.92	1.74
13	1.32	1.12	3.04	14 *	8.36	20	11	7.80	5.20	3.44	1.20	1.74
14	1.20	1.04	2.56	106 *	6.50	17	11	8.36	5.72	3.44	0.72	1.92
15	1.12	0.96	2.16	38 *	17	15	11	7.28	5.46	3.66	0.72	1.92
16	1.12	1.80	2.72	19	33	15	10	7.02	5.72	3.66	1.38	1.92
17	1.12	1.20	2.56	12	15	15	10	7.02	5.46	3.88	2.28	1.74
18	1.12	1.12	2.28	47	16	20	9.76	6.76	5.20	3.66	2.28	1.74
19	1.68	1.12	2.16	34	40	13	9.76	6.76	4.98	3.66	2.10	1.92
20	2.04	1.44	1.68	26	44	13	9.76	7.02	5.20	3.66	2.10	1.92
21	1.80	3.52	1.80	18	37	13	9.48	7.02	4.98	3.44	2.10	1.38
22	1.92	3.04	3.84	13	36	12	9.76	6.76	4.98	3.44	2.10	1.20
23	1.68	2.72	9.01	10	28	12	9.48	6.50	5.20	3.44	2.10	1.20
24	1.68	4.20	6.66	9.48	22	12	9.20	6.50	5.20	3.22	2.10	1.20
25	1.56	8.80	4.80	25	52	12	8.92	6.50	4.76	3.44	2.10	1.20
26	1.44	12	4.20	14	61	12	9.48	6.24	4.76	3.22	2.10	1.20
27	1.32	4.40	5.40	11	62	13	11	6.50	4.54	3.22	2.10	1.20
28	1.80	4.00	11	10	61	21	11	6.76	4.76	3.22	2.10	1.20
29	1.80	4.80	37	8.36	66	14	12	6.50	5.72	3.00	2.10	1.20
30	1.68	5.40	34	10	41	13	10	6.50	5.20	3.00	–	1.20
31	–	4.80	–	10	29	–	9.76	–	4.54	3.00	–	1.20
Total	42.56	91.36	194.61	607.12	799.46	673	428.36	227.40	164.22	110.82	64.54	50.16
Mean	1.42	2.95	6.48	19.6	25.8	22.4	13.8	7.58	5.29	3.57	2.22	1.61
Max.	2.04	12	37	106	66	82	46	10	6.24	4.98	3.22	1.92
Min.	1.12	0.96	1.68	8.36	4.32	12	8.92	6.24	4.54	3.00	0.72	1.20
Runoff - mcm.	3.677	7.893	16.814	52.455	69.073	58.147	37.010	19.647	14.188	9.574	5.576	4.333

WATER YEAR 1971 : Max. 106 Min. 0.72 Mean 9.44 Annual Runoff 298.387 mcm.

Momentary Peak Discharge

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

WANG RIVER BASIN

Mae Wang River at Kittikhachon II Bridge, Lampang (W. 1A)

Location: Lat. 18°-17'-24" N., Long 99°-29'-55" E., on left bank about 300 meters upstream from Kittikhachon II Bridge, Amphoe Muang, Lampang.

Drainage Area: 3,481 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 227.790 m. (M.S.L.)

Bench Mark: B.M.-W1 A

Location: Near the top of vertical Staff gage.
Elevation: + 234.247 m (M.S.L.)

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

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

Period of Available Gage Records: 1966 to date

Rating Operation:

Period of Rating: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

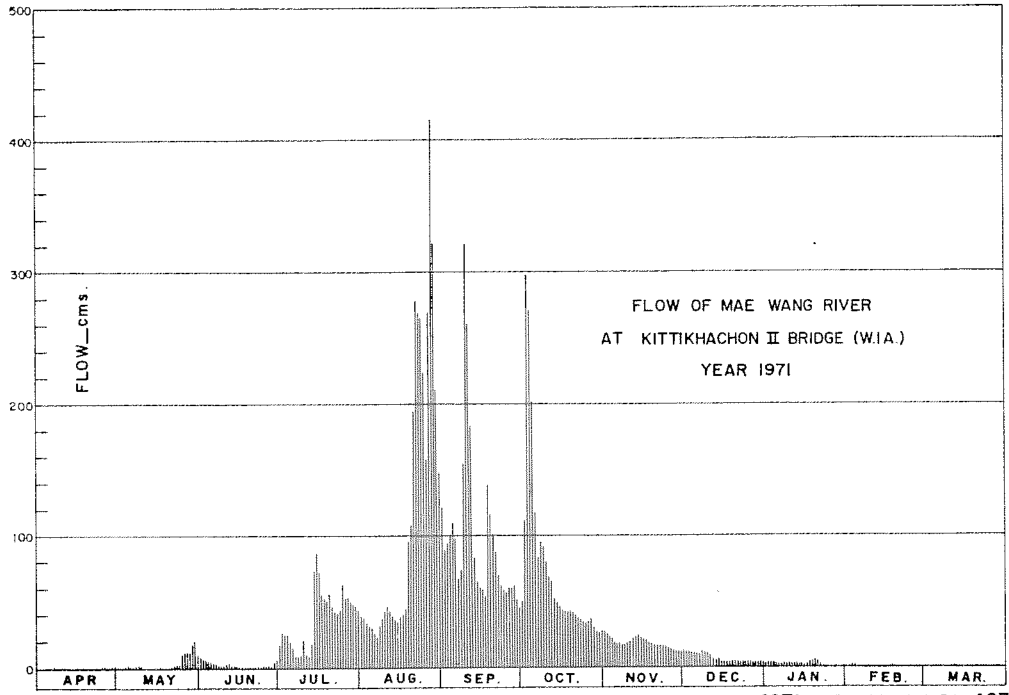
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.97	227.95	228.39	228.83	229.10	229.97	229.33	228.90	228.58	228.25	228.04	227.94
2	.96	.92	.36	.89	.08	.76	.89	.88	.52	.26	.03	.94
3	.94	.90	.32	.85	.02	.81	231.52	.85	.50	.26	.04	.94
4	.94	228.00	.30	.86	.00	.90	.31	.82	.49	.25	.05	.94
5	.93	.10	.25	.65	228.96	.99	230.44	.73	.48	.23	227.99	.94
6	227.93	228.09	228.24	228.59	228.91	229.47	229.80	228.70	228.46	228.23	227.97	227.94
7	.92	.07	.22	.44	.82	.54	.70	.71	.43	.23	.97	.94
8	.92	.08	.10	.44	.96	.63	.85	.68	.52	.23	228.11	.93
9	.92	.16	.09	.40	229.05	230.49	.80	.67	.54	.23	.01	.93
10	.93	.08	.17	.79	.17	231.66	.63	.73	.50	.23	227.99	.94
11	227.91	228.08	228.26	228.50	229.23	230.56	229.53	228.77	228.39	228.23	227.99	227.94
12	.89	227.98	.19	.40	.18	229.91	.48	.81	.34	.23	.98	.94
13	.88	228.00	.18	.37	.12	.60	.31	.84	.31	.23	.98	.98
14	.88	227.98	.11	229.55	.08	.47	.22	.83	.37	.17	.98	.97
15	.88	.97	.07	.75	.04	.42	.21	.80	.24	.17	.97	.96
16	227.88	227.97	228.05	229.53	229.12	229.42	229.17	228.77	228.24	228.17	227.97	227.96
17	.88	.96	.04	.35	.14	.29	.16	.74	.24	.17	.97	.94
18	.87	.96	.03	.32	.24	230.26	.15	.72	.25	.28	.97	.93
19	228.01	.93	.02	.30	.84	.05	.17	.70	.26	.30	.99	.93
20	.00	.99	.04	.36	230.00	229.91	.13	.68	.26	.30	.97	.93
21	227.96	228.09	228.02	229.21	230.39	229.74	229.11	228.67	228.26	228.28	227.97	227.94
22	.94	.12	.00	.16	231.39	.54	.09	.67	.25	.14	.97	.95
23	.92	.14	.03	.15	.31	.44	.05	.64	.24	.09	.97	.95
24	.91	.25	.13	.19	.30	.40	.03	.59	.24	.09	.97	.93
25	.90	.53	.18	.45	230.74	.38	.03	.59	.24	.09	.97	.93
26	227.90	228.57	228.15	229.32	230.41	229.43	229.03	228.58	228.23	228.09	227.97	227.93
27	.89	.57	.12	.33	.95	.41	.06	.57	.22	.07	.95	.93
28	.89	.55	.09	.28	232.15	.44	228.99	.56	.21	.06	.94	.94
29	.92	.75	.30	.27	231.78	.30	.92	.55	.21	.05	.94	.93
30	228.04	.76	.37	.24	230.66	.21	.88	.54	.22	.04	-	.93
31	-	.47	-	.18	.25	-	.91	-	.25	.04	-	.93
Mean	227.76	228.16	228.16	229.03	229.82	229.75	229.44	228.71	228.34	228.18	227.99	227.94
Max.	228.04	228.76	228.59	229.75	232.15	231.66	231.52	228.90	228.58	228.30	228.11	227.98
Min.	227.87	227.90	228.00	228.37	228.82	229.21	228.88	228.54	228.21	228.04	227.94	227.93

WATER YEAR 1971 : Max. 232.15 m. Min. 227.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.75	7.75	24	39	108	54	27	13	4.25	1.40	0.70
2	0.80	0.60	7.00	27	38	89	100	26	12	4.50	1.30	0.70
3	0.70	0.50	6.00	25	34	93	298	25	11	4.50	1.40	0.70
4	0.70	1.00	5.50	25	33	101	266	23	11	4.25	1.50	0.70
5	0.65	2.00	4.25	16	32	110	156	19	10	3.75	0.95	0.70
6	0.65	1.90	4.00	14	28	64	92	18	10	3.75	0.85	0.70
7	0.60	1.70	3.50	9.20	23	70	83	18	8.90	3.75	0.85	0.70
8	0.60	1.80	2.00	9.20	32	77	95	17	12	3.75	2.10	0.65
9	0.60	2.60	1.90	8.00	36	161	92	17	12	3.75	1.10	0.65
10	0.65	1.80	2.70	22	43	321	77	19	11	3.75	0.95	0.70
11	0.55	1.30	4.50	11	47	169	69	21	7.75	3.75	0.95	0.70
12	0.40	0.90	2.90	8.00	44	102	65	23	6.50	3.75	0.90	0.70
13	0.30	1.00	2.80	7.25	40	75	52	24	5.75	3.75	0.90	0.90
14	0.30	0.95	2.10	71	38	64	49	24	7.25	2.70	0.95	0.85
15	0.30	0.85	1.70	88	35	60	46	22	4.00	2.70	0.85	0.80
16	0.30	0.85	1.50	69	40	60	43	21	4.00	2.70	0.85	0.80
17	0.30	0.80	1.40	55	41	51	43	20	4.00	2.70	0.85	0.70
18	0.20	0.80	1.30	53	48	137	42	19	4.25	5.00	0.85	0.65
19	1.10	0.65	1.20	51	96	116	43	18	4.50	5.50	0.95	0.65
20	1.00	0.95	1.40	56	111	102	41	17	4.50	5.50	0.85	0.65
21	0.80	1.90	1.20	46	150	87	40	17	4.50	5.00	0.85	0.70
22	0.70	2.20	1.00	43	278	70	38	17	4.25	2.40	0.85	0.75
23	0.60	2.40	1.30	42	266	62	36	16	4.00	1.90	0.85	0.75
24	0.55	4.25	2.30	44	265	59	35	14	4.00	1.90	0.85	0.65
25	0.50	12	2.80	63	191	57	35	14	4.00	1.90	0.85	0.65
26	0.50	13	2.50	53	153	61	35	13	3.75	1.90	0.85	0.65
27	0.40	13	2.20	54	216	60	37	13	3.50	1.70	0.75	0.65
28	0.40	12	1.90	50	416	62	33	13	3.25	1.60	0.70	0.70
29	0.60	20	5.50	49	343	51	29	12	3.25	1.50	0.70	0.70
30	1.40	21	7.25	48	181	46	26	12	3.50	1.40	–	0.65
31	–	10	–	44	136	–	28	–	4.25	1.40	–	0.65
Total	18.00	135.45	93.35	1,184.65	3,473	2,745	2,178	559	205.65	100.65	28.55	21.80
Mean	0.60	4.37	3.11	38.2	112	91.5	70.2	18.6	6.63	3.25	0.98	0.70
Max.	1.40	21	7.75	88	416	321	298	27	13	5.50	2.10	0.90
Min.	0.20	0.50	1.00	7.25	23	46	26	12	3.25	1.40	0.70	0.65
Runoff - mcm.	1.555	11.703	8.065	102.354	300.067	237.168	188.179	48.298	17.768	8.696	2.468	1.883

WATER YEAR 1971 : Max. 416 Min. 0.20 Mean 29.3 Annual Runoff 928,204 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 28, 71	18.00	232.280	445				

WANG RIVER BASIN

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

Location: Lat. 17^0-38'-29" N., Long 99^0-14'-04" E., on right bank about 30 meters upstream from Siriyong Bridge, Amphoe Thoen, Lampang.

Drainage Area: 8,985 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Near automatic gage building
Elevation: + 6.540 m. (A.D.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

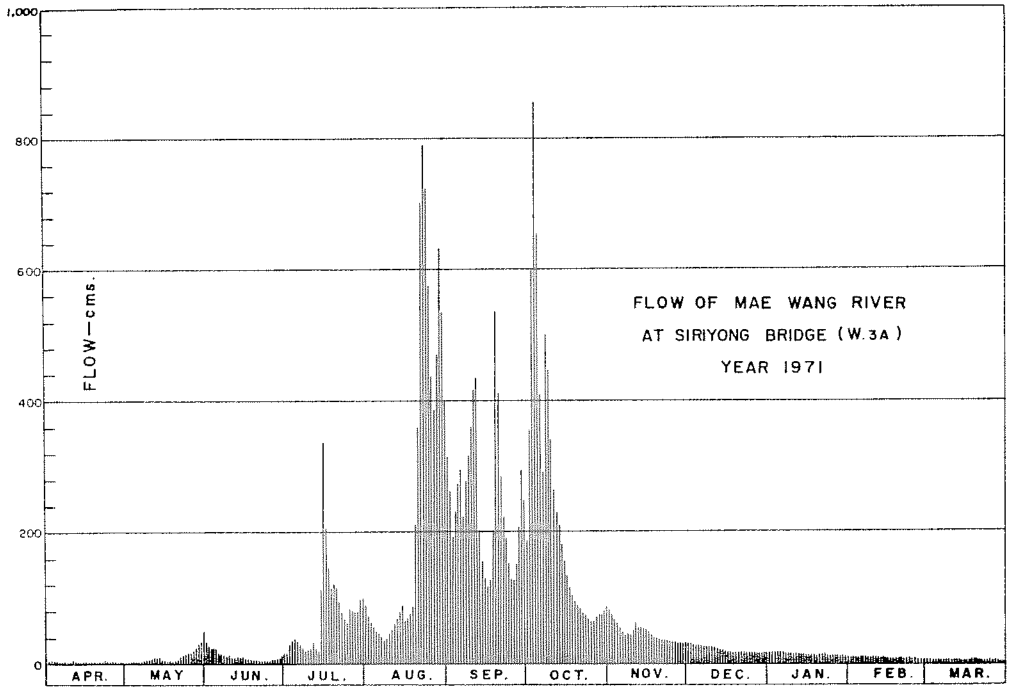
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. The data presented is made by discharge measurements during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.02	0.94	1.37	1.21	1.84	2.93	2.34	1.79	1.36	1.22	1.12	1.04
2	.02	.94	.29	.25	.73	.68	3.60	.73	.36	.23	.12	.04
3	.00	.94	.29	.40	.65	.45	4.27	.68	.35	.22	.11	.03
4	.00	.96	.30	.43	.58	.73	.64	.64	.35	.22	.11	.03
5	0.99	.98	.24	.43	.54	.91	3.84	.59	.34	.22	.11	.04
6	0.99	0.97	1.19	1.40	1.50	2.92	3.16	1.53	1.33	1.22	1.10	1.03
7	.99	.98	.16	.33	.46	.56	2.79	.50	.32	.21	.09	.03
8	.98	1.06	.14	.27	.41	.94	3.77	.52	.31	.20	.09	.03
9	.97	.06	.14	.22	.46	3.06	.39	.50	.31	.19	.10	.03
10	.97	.06	.11	.27	.53	.33	2.91	.64	.31	.19	.10	.03
11	1.01	1.08	1.09	1.31	1.59	3.44	2.67	1.60	1.30	1.18	1.09	1.03
12	.97	.09	.10	.39	.67	2.82	.61	.59	.29	.18	.09	.02
13	.97	.09	.13	.30	.74	.47	.53	.58	.27	.18	.08	.02
14	.98	.07	.10	.24	.81	.25	.35	.58	.25	.17	.07	.01
15	.99	.03	.09	2.09	.85	.10	.22	.55	.24	.17	.06	0.98
16	0.96	1.02	1.06	3.09	1.67	2.03	2.09	1.51	1.23	1.16	1.06	1.02
17	.95	.00	.05	2.39	.73	.12	1.99	.49	.22	.16	.06	.04
18	.95	.01	.04	.13	.80	.75	.94	.46	.22	.16	.07	.04
19	.95	.02	.03	.02	.90	3.76	.88	.44	.22	.16	.09	.04
20	.96	.02	.01	.06	2.96	.35	.84	.42	.22	.17	.08	.02
21	0.97	1.02	1.00	1.97	3.31	2.95	1.81	1.42	1.22	1.17	1.08	1.02
22	.98	.14	.00	.84	4.26	.66	.77	.41	.22	.16	.07	.01
23	1.02	.15	.00	.74	.47	.40	.74	.41	.21	.15	.07	.02
24	.01	.19	.00	.68	.27	.21	.70	.41	.21	.14	.05	.01
25	0.99	.20	.00	.66	3.83	.09	.66	.39	.20	.13	.07	.00
26	0.98	1.20	1.02	1.82	3.29	2.10	1.70	1.38	1.20	1.13	1.04	1.00
27	.96	.27	.05	.79	.22	.34	.74	.38	.20	.13	.04	.00
28	.96	.36	.07	.79	.63	.64	.79	.38	.20	.13	.04	0.99
29	.94	.37	.10	.81	4.04	.92	.76	.37	.19	.13	.04	.97
30	.94	.42	.16	.94	3.62	.56	.84	.37	.20	.12	-	.98
31	-	.54	-	.94	.13	-	.85	-	.20	-	-	.99
Mean	0.98	1.12	1.11	1.75	2.68	2.72	2.62	1.52	1.26	1.16	1.08	1.02
Max.	1.02	1.54	1.37	3.09	4.47	3.76	4.64	1.79	1.36	1.22	1.12	1.04
Min.	0.94	0.94	1.00	1.21	1.41	2.09	1.66	1.37	1.19	1.12	1.04	0.97

WATEP YEAR 1971 : Max. 4.64 m. Min. 0.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.20	2.80	31	17	86	297	171	79	30	18	11	6.40
2	5.20	2.80	23	20	72	240	484	72	30	18	11	6.40
3	4.00	2.80	23	34	62	192	715	66	29	18	11	5.80
4	4.00	3.20	24	37	54	251	854	61	29	18	11	5.80
5	3.80	3.60	19	37	49	292	564	55	28	18	11	6.40
6	3.80	3.40	15	34	44	295	356	48	27	18	10	5.80
7	3.80	3.60	14	27	40	214	264	44	26	17	9.40	5.80
8	3.60	7.60	12	22	35	299	540	46	25	16	9.40	5.80
9	3.40	7.60	12	18	40	330	419	44	25	15	10	5.80
10	3.40	7.60	11	22	48	402	292	61	25	15	10	5.80
11	4.60	8.80	9.40	25	55	434	237	56	24	15	9.40	5.80
12	3.40	9.40	10	33	64	271	224	55	23	15	9.40	5.20
13	3.40	9.40	12	24	73	196	208	54	22	15	8.80	5.20
14	3.60	8.20	10	19	81	155	173	54	20	14	8.20	4.60
15	3.80	5.80	9.40	126	87	128	150	50	19	14	7.60	3.60
16	3.20	5.20	7.60	337	64	115	126	45	18	14	7.60	5.20
17	3.00	4.00	7.00	180	72	132	108	43	18	14	7.60	6.40
18	3.00	4.60	6.40	133	80	255	100	40	18	14	8.20	6.40
19	3.00	5.20	5.80	114	94	536	91	38	18	14	9.40	6.40
20	3.20	5.20	4.60	121	304	408	86	36	18	14	8.80	5.20
21	3.40	5.20	4.00	105	397	302	81	36	18	14	8.80	5.20
22	3.60	12	4.00	86	712	235	76	35	18	14	8.20	4.60
23	5.20	13	4.00	73	789	182	73	35	17	13	8.20	5.20
24	4.60	15	4.00	66	715	148	68	35	17	12	7.00	4.60
25	3.80	16	4.00	63	560	126	63	33	16	12	8.20	4.00
26	3.60	16	5.20	83	391	128	68	32	16	12	6.40	4.00
27	3.20	22	7.00	79	372	171	73	32	16	12	6.40	4.00
28	3.20	30	8.20	79	494	231	79	32	16	12	6.40	3.80
29	2.80	31	10	81	632	295	75	31	15	12	6.40	3.40
30	2.80	36	14	100	490	214	86	31	16	12	–	3.60
31	–	49	–	100	348	–	87	–	16	11	–	3.80
Total	110.60	356	330.60	2,295	7,404	7,474	6,991	1,379	653	450	254.80	160
Mean	3.70	11.5	11.0	74.0	239	249	225	46.0	21.1	14.5	8.79	5.16
Max.	5.20	49	31	337	789	536	854	79	30	18	11	6.40
Min.	2.80	2.80	4.00	17	35	126	63	31	15	11	6.40	3.40
Runoff - mcm.	9.556	30.758	28.564	198.288	639.706	645.754	604.022	119.146	56.419	38.880	22.014	13.824

WATER YEAR 1971 : Max. 854 Min. 2.80 Mean 76.1 Annual Runoff 2,406.931 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 4	17.00	4.81	922				

WANG RIVER BASIN

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

Location: Lat. 17°-12'-58" N., Long. 99°-04'-42" E., on right bank about 120 meters upstream side of the bridge at Ban Wang Khrai, 6 kilometers from Phahon Yothin Highway, Amphoe Sam Ngau, 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 of the camp of station W.4
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: 1952-1971

Rating Operation:

Period of Rating: 1952-1970
Rated by Float: -
Rated by Current Meter: 1952-1970

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

Overbank Flow Conditions: No overbank flow.

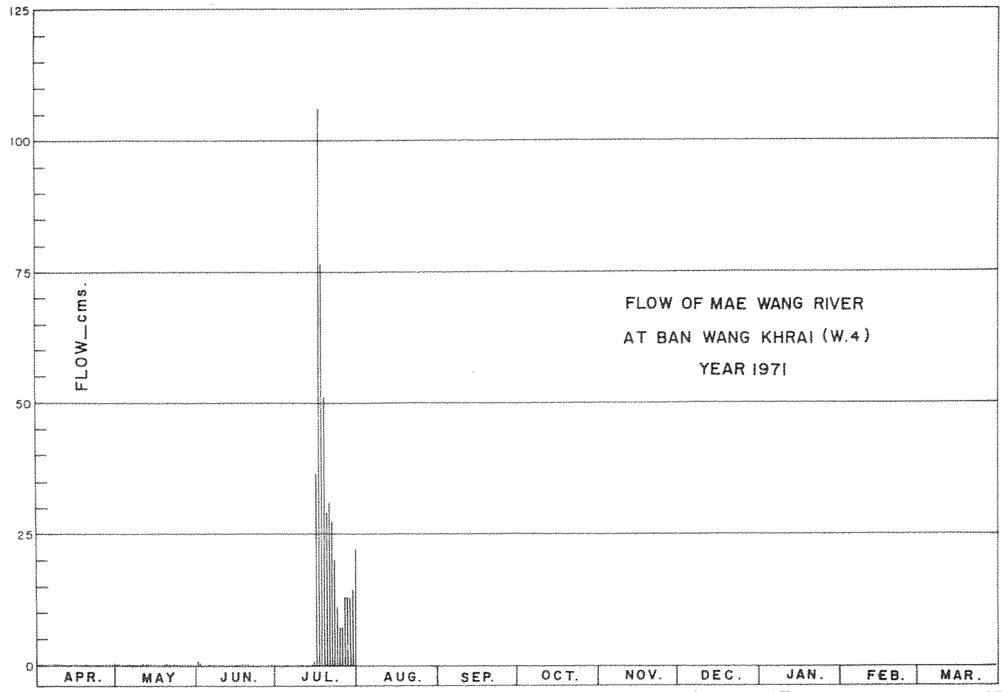
General Description: Records fair. The data presented is made by discharge measurements during 1970. Upstream State diversions for irrigation of about 12,320 hectares.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	130.85	130.75	131.98	131.06								
2	.84	.73	.88	.25								
3	.84	.72	.66	.32								
4	.82	.71	.51	.61								
5	.82	.72	.58	.71								
6	130.80	130.78	131.51	131.80								
7	.90	.80	.41	.86								
8	.80	.80	.33	.75								
9	.80	.78	.26	.56								
10	.80	.89	.24	.46								
11	130.79	130.92	131.19	131.45								
12	.78	.92	.15	.45								
13	.81	.96	.11	.68								
14	.80	.96	.13	.62								
15	.78	.95	.14	.48								
16	130.77	130.91	131.10	133.57								
17	.77	.86	.06	134.48								
18	.75	.83	.04	133.70								
19	.73	.84	.01	.24								
20	.72	.84	130.97	.05								
21	130.75	130.93	130.94	133.09								
22	.75	131.04	.94	132.93								
23	.75	.18	.95	.71								
24	.75	.25	.95	.52								
25	.76	.38	.96	.39								
26	130.80	131.36	130.96	132.40								
27	.78	.34	.94	.60								
28	.76	.41	.94	.60								
29	.75	.64	.97	.59								
30	.75	.67	131.02	.65								
31	-	.84	-	.87								
Mean	130.78	131.02	131.19	133.27								
Max.	130.85	131.84	131.98	134.48								
Min.	130.72	130.71	130.94	131.06								

WATER YEAR 1971 : Max. m Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.640	0.00								
2			0.00									
3						Ending Gage Record on Aug. 1, 1971						
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15				0.00								
16				52								
17				106								
18				59								
19				37								
20				29								
21				31								
22				25								
23				16								
24				11								
25				7.36								
26				7.60								
27				13								
28				13								
29				13								
30	0.00		0.00	15								
31	–	0.00	–	22								
Total	0.00	0.00	0.64	456.96								
Mean	0.00	0.00	0.021	14.7								
Max.	0.00	0.00	0.640	106								
Min.	0.00	0.00	0.00	0.00								
Runoff - mcm.	0.00	0.00	0.055	39.481								

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

Momentary Peak Discharge

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

WANG RIVER BASIN

Mae Wang River at Ko Kha Bridge, Lampang (W. 5A)

Location: Lat. 18^0-11'-21" N., Long 99^0-24'-04" E., on left bank at abutment of Ko Kha Bridge at Ban Ko Kha, Amphoe Ko Kha, Lampang.

Drainage Area: 5,278 sq. km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 215.700 m. (M.S.L.)

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

Location: In the Vicinity of the gage observer's house.
Elevation: + 219.805 m. (M.S.L.)

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

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

Period of Available Gage Records: 1963-1974

Rating Operation:

Period of Rating: 1967-1974
Rated by Float: -
Rated by Current Meter: 1967-1974

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

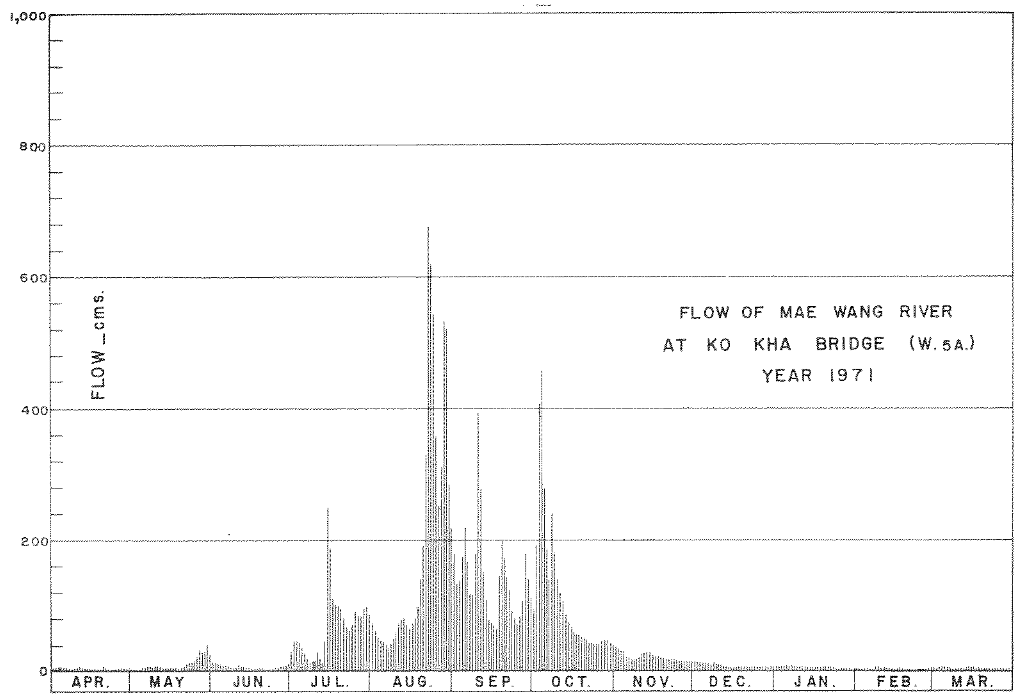
Overbank Flow Conditions: Overbank flow starts at elevation + 219.025 m. (M.S.L.) on left bank. Records are channel flow only.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	216.25	216.18	216.49	216.82	217.11	217.83	217.30	216.82	216.54	216.38	216.29	216.28
2	.26	.14	.47	.91	.02	.55	218.11	.77	.53	.38	.27	.29
3	.26	.11	.43	.89	216.94	.60	.83	.75	.52	.30	.27	.30
4	.25	.14	.40	.88	.91	.76	219.02	.72	.51	.40	.26	.30
5	.24	.25	.37	.77	.88	218.03	218.27	.64	.49	.37	.26	.30
6	216.20	216.29	216.34	216.67	216.84	217.70	217.83	216.61	216.48	216.37	216.18	216.30
7	.21	.32	.32	.56	.79	.46	.61	.59	.47	.38	.23	.28
8	.20	.28	.27	.49	.87	.45	218.05	.59	.50	.37	.30	.26
9	.20	.32	.24	.51	.97	.88	217.87	.58	.47	.35	.33	.26
10	.21	.33	.24	.52	217.04	218.78	.61	.67	.45	.35	.23	.28
11	216.24	216.29	216.40	216.72	217.14	218.20	217.50	216.70	216.40	216.35	216.24	216.27
12	.18	.25	.33	.55	.20	217.67	.46	.73	.39	.33	.26	.26
13	.18	.21	.33	.48	.20	.37	.29	.73	.35	.31	.25	.32
14	.18	.21	.26	217.09	.11	.19	.20	.72	.36	.31	.24	.32
15	.15	.21	.22	218.18	.06	.14	.11	.70	.33	.31	.21	.29
16	216.17	216.22	216.21	217.71	217.16	217.12	217.03	216.63	216.34	216.32	216.23	216.29
17	.16	.20	.17	.41	.22	.06	.00	.64	.34	.33	.28	.26
18	.13	.18	.17	.34	.33	.74	216.98	.62	.35	.34	.21	.24
19	.13	.17	.17	.34	.76	.94	.95	.60	.37	.38	.23	.24
20	.28	.21	.18	.30	.98	.79	.93	.58	.36	.37	.22	.24
21	216.19	216.33	216.18	217.19	218.84	217.65	216.91	216.57	216.36	216.37	216.22	216.23
22	.16	.40	.17	.08	219.68	.45	.88	.57	.35	.32	.20	.24
23	.15	.43	.21	.04	.51	.29	.87	.56	.34	.27	.21	.23
24	.13	.48	.24	.12	.28	.20	.85	.55	.33	.23	.21	.23
25	.13	.53	.31	.27	218.59	.15	.84	.54	.35	.26	.20	.20
26	216.11	216.71	216.30	217.23	218.19	217.25	216.86	216.54	216.34	216.30	216.18	216.18
27	.10	.73	.34	.23	.46	.44	.90	.55	.33	.29	.22	.23
28	.11	.69	.34	.23	219.27	.84	.90	.54	.32	.28	.25	.22
29	.11	.79	.38	.33	.23	.67	.90	.54	.34	.26	.27	.19
30	.13	.84	.47	.32	218.44	.42	.88	.54	.36	.25	-	.19
31	-	.63	-	.23	.06	-	.85	-	.38	.31	-	.16
Mean	216.18	216.36	216.29	217.04	217.74	217.58	217.34	216.62	216.39	216.33	216.24	216.25
Max.	216.26	216.84	216.49	218.18	219.68	218.78	219.02	216.82	216.54	216.40	216.33	216.32
Min.	216.10	216.11	216.17	216.49	216.87	217.06	216.84	216.54	216.32	216.23	216.18	216.16

WATER YEAR 1971 : Max. 219.68 m. Min. 216.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.50	2.60	13	38	69	178	94	38	16	8.40	5.70	5.40
2	4.80	1.80	12	47	58	130	232	34	16	8.40	5.10	5.70
3	4.80	1.20	10	45	50	138	404	32	15	8.70	5.10	6.00
4	4.50	1.80	9.00	44	47	166	456	30	15	9.00	4.80	6.00
5	4.20	4.50	8.10	34	44	216	267	23	13	8.10	4.80	6.00
6	3.00	5.70	7.20	26	40	155	178	21	13	8.10	2.60	6.00
7	3.30	6.60	6.60	18	35	116	140	19	12	8.40	3.90	5.40
8	3.00	5.40	5.10	13	43	115	220	19	14	8.10	6.00	4.80
9	3.00	6.60	4.20	15	53	187	186	19	12	7.50	6.90	4.80
10	3.30	6.90	4.20	15	61	391	140	26	11	7.50	3.90	5.40
11	4.20	5.70	9.00	30	73	252	122	28	9.00	7.50	4.20	5.10
12	2.60	4.50	6.90	17	80	150	116	30	8.70	6.90	4.80	4.80
13	2.60	3.30	6.90	13	80	104	93	30	7.50	6.30	4.50	6.60
14	2.60	3.30	4.80	67	69	79	80	30	7.80	6.30	4.20	6.60
15	2.00	3.30	3.60	248	63	73	69	28	6.90	6.30	3.30	5.70
16	2.40	3.60	3.30	157	75	70	60	22	7.20	6.60	3.90	5.70
17	2.20	3.00	2.40	109	83	63	56	23	7.20	6.90	5.40	4.80
18	1.60	2.60	2.40	100	98	162	54	22	7.50	7.20	3.30	4.20
19	1.60	2.40	2.40	100	166	199	51	20	8.10	8.40	3.90	4.20
20	5.40	3.30	2.60	94	206	171	49	19	7.80	8.10	3.60	4.20
21	2.80	6.90	2.60	79	406	146	47	18	7.80	8.10	3.60	3.90
22	2.20	9.00	2.40	66	673	115	44	18	7.50	6.60	3.00	4.20
23	2.00	10	3.30	61	611	93	43	18	7.20	5.10	3.30	3.90
24	1.60	13	4.20	70	534	80	41	17	6.90	3.90	3.30	3.90
25	1.60	16	6.30	90	342	74	40	16	7.50	4.80	3.00	3.00
26	1.20	29	6.00	84	250	87	42	16	7.20	6.00	2.60	2.60
27	1.00	30	7.20	84	310	114	46	17	6.90	5.70	3.60	3.90
28	1.20	27	7.20	84	530	180	46	16	6.60	5.40	4.50	3.60
29	1.20	35	8.40	98	518	150	46	16	7.20	4.80	5.10	2.80
30	1.60	40	12	97	306	111	44	16	7.80	4.50	–	2.80
31	–	22	–	84	222	–	41	–	8.40	6.30	–	2.20
Total	82.00	316.00	183.30	2,127	6,204	4,265	3,547	681	295.70	213.90	121.90	144.20
Mean	2.73	10.2	6.11	68.6	200	142	114	22.7	9.54	6.90	4.20	4.65
Max.	4.80	40	13	248	673	391	456	38	16	9.00	6.90	6.60
Min.	1.00	1.20	2.40	13	43	63	40	16	6.60	3.90	2.60	2.20
Runoff - mcm.	7.085	27.302	15.837	183.773	536.026	368.496	306.461	58.838	25.548	18.481	10.532	12.459

WATER YEAR 1971 : Max. 673 Min. 1.00 Mean 49.7 Annual Runoff 1,570.838 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.21, 71	24.00	220.00	792				

WANG RIVER BASIN

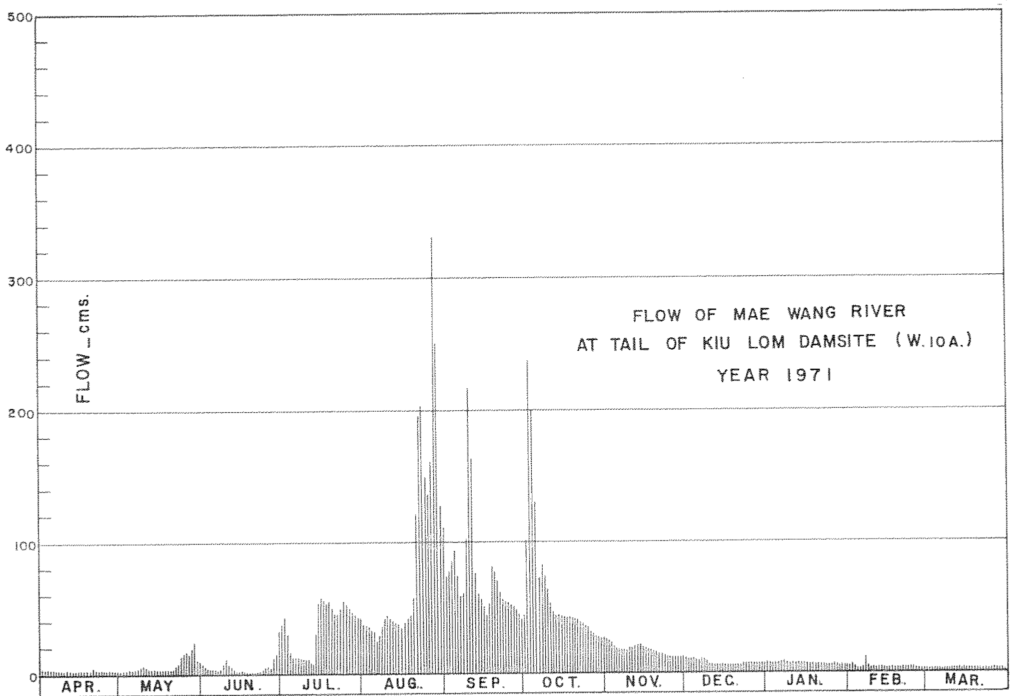
Mae Wang River at Kiu Lom Damsite, Lampang (W. 10A)

Location:	Lat. 18°-31'-16" N., Long 99°-37'-52" E., on left bank about 800 meters downstream from Kiu Lom Damsite, Amphoe Chae Hom, Lampang.
Drainage Area:	2,798 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 258.961 m. (M.S.L.)
Bench Mark:	B.M - H.S.
Location:	On right side of automatic gage building.
Elevation:	+ 265.638 m. (M.S.L.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on Apr.-May, Nov.-Mar. Recording on Jul.-Oct.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 and 24 houry readings.
Period of Available Gage Records:	1966 to date
Rating Operation:	
Period of Rating:	1967 to date
Rated by Float:	-
Rated by Current Meter:	1967 to date
Stability of Channel Regimes:	Unstable, no shifting adjustment but periodic curves are used for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow is under construction of Kiu Lom Dam. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	259.38	259.37	259.49	260.08	260.09	260.67	260.11	259.77	259.46	259.30	259.19	259.09
2	.38	.37	.45	.16	.08	.51	.56	.74	.45	.30	.16	.09
3	.37	.38	.42	259.96	.05	.66	262.37	.69	.44	.30	.18	.09
4	.37	.40	.41	.75	.02	.74	261.58	.66	.43	.31	258.88	.08
5	.37	.39	.39	.61	259.96	.59	260.88	.62	.42	.31	259.09	.08
6	259.36	259.39	259.37	259.59	259.86	260.40	260.52	259.61	259.41	259.32	259.18	259.08
7	.36	.43	.36	.63	260.04	.29	.45	.60	.40	.32	.44	.08
8	.36	.46	.35	.60	.09	.34	.60	.58	.39	.31	.14	.08
9	.36	.47	.48	.58	.18	261.84	.46	.58	.31	.31	.13	.08
10	.37	.45	.59	.58	.18	262.15	.28	.67	.21	.30	.12	.08
11	259.37	259.41	259.47	259.55	260.14	261.02	260.22	259.65	259.22	259.30	259.12	259.08
12	.37	.39	.44	.51	.12	260.55	.07	.66	.25	.29	.12	.08
13	.37	.38	.39	.51	.11	.36	.05	.68	.25	.28	.11	.09
14	.37	.37	.34	.89	.08	.26	.06	.65	.27	.27	.11	.09
15	.36	.37	.32	260.32	.05	.24	.05	.64	.27	.28	.11	.08
16	259.36	259.36	259.31	260.36	260.05	260.14	260.04	259.61	259.27	259.29	259.10	259.08
17	.36	.36	.29	.35	.14	.08	.03	.59	.27	.27	.10	.08
18	.36	.35	.26	.31	.18	.35	.02	.57	.28	.26	.10	.08
19	.37	.35	.25	.33	.28	.59	.01	.55	.28	.26	.10	.08
20	.38	.37	.26	.26	.42	.53	260.00	.52	.28	.25	.10	.07
21	259.41	259.43	259.27	260.20	261.36	260.42	259.99	259.53	259.28	259.24		259.06
22	.39	.49	.27	.20	.95	.27	.97	.52	.28	.24	.11	.06
23	.36	.50	.36	.28	262.01	.24	.96	.50	.29	.24	.11	.05
24	.35	.65	.42	.34	261.79	.23	.93	.48	.29	.23	.10	.05
25	.35	.70	.45	.31	.32	.21	.90	.46	.30	.22	.10	.05
26	259.35	259.73	259.45	260.28	261.25	260.20	259.86	259.47	259.30	259.21	259.09	259.06
27	.37	.67	.42	.23	262.35	.18	.82	.47	.30	.21	.09	.07
28	.39	.74	.59	.17	263.30	.11	.80	.47	.30	.20	.08	.06
29	.38	.87	.69	.16	262.00	.01	.78	.47	.30	.20	.08	.06
30	.37	.61	260.03	.16	261.20	.01	.79	.47	.30	.20	-	.06
31	-	.53	-	.12	.00	-	.79	-	.30	.20	-	.06
Mean	259.37	259.47	259.42	260.01	260.70	260.47	260.22	259.58	259.32	259.26	259.12	259.07
Max.	259.41	259.87	260.03	260.34	263.30	262.15	262.37	259.77	259.46	259.32	259.44	259.09
Min.	259.35	259.35	259.25	259.51	259.86	260.01	259.79	259.46	259.21	259.20	258.88	259.05

WATER YEAR 1972 : Max. 263.30 m. Min. 258.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.60	3.40	7.60	37	37	87	47	26	13	8.00	5.30	3.35
2	3.60	3.40	6.00	42	37	75	78	25	12	8.00	4.70	3.35
3	3.40	3.60	4.80	30	35	86	237	22	12	8.00	5.10	3.35
4	3.40	4.00	4.40	18	33	92	163	21	12	8.30	0.30	3.20
5	3.40	3.80	3.80	12	30	80	103	19	12	8.30	3.35	3.20
6	3.20	3.80	3.40	12	24	67	75	18	11	8.60	5.10	3.20
7	3.20	5.20	3.20	13	34	59	70	18	11	8.60	12	3.20
8	3.20	6.40	3.00	12	37	63	81	17	11	8.30	4.30	3.20
9	3.20	6.80	7.20	11	44	187	71	17	8.30	8.30	4.10	3.20
10	3.40	6.00	12	11	44	215	59	21	5.75	8.00	3.90	3.20
11	3.40	4.40	6.80	10	41	115	54	20	6.00	8.00	3.90	3.20
12	3.40	3.80	5.60	8.40	39	77	44	21	6.75	7.75	3.90	3.20
13	3.40	3.60	3.80	8.40	39	64	43	22	6.75	7.50	3.70	3.35
14	3.40	3.40	2.80	25	37	57	44	20	7.25	7.25	3.70	3.35
15	3.20	3.40	2.40	54	35	56	43	20	7.25	7.50	3.70	3.20
16	3.20	3.20	2.20	57	35	49	42	18	7.25	7.75	3.50	3.20
17	3.20	3.20	1.80	56	41	45	42	18	7.25	7.25	3.50	3.20
18	3.20	3.00	1.20	53	44	63	41	17	7.50	7.00	3.50	3.20
19	3.40	3.00	1.00	54	50	80	41	16	7.50	7.00	3.50	3.20
20	3.60	3.40	1.20	48	62	76	40	15	7.50	6.75	3.50	3.05
21	4.40	5.20	1.40	45	142	68	39	15	7.50	6.50	3.50	2.90
22	3.80	7.60	1.40	45	196	58	38	15	7.50	6.50	3.70	2.90
23	3.20	8.00	3.20	50	202	56	38	14	7.75	6.50	3.70	2.75
24	3.00	14	4.80	55	182	55	36	13	7.75	6.25	3.50	2.75
25	3.00	16	6.00	53	140	54	34	13	8.00	6.00	3.50	2.75
26	3.00	17	6.00	50	133	53	32	13	8.00	5.75	3.35	2.90
27	3.40	15	4.80	46	235	52	29	13	8.00	5.75	3.35	3.05
28	3.80	18	12	43	330	47	28	13	8.00	5.50	3.20	2.90
29	3.60	24	16	42	201	41	27	13	8.00	5.50	3.20	2.90
30	3.40	12	34	42	129	41	27	13	8.00	5.50	–	2.90
31	–	9.20	–	39	113	–	27	–	8.00	5.50	–	2.90
Total	101.60	226.80	173.80	1,081.80	2,781	2,218	1,773	526.00	265.55	221.40	115.55	96.20
Mean	3.39	7.32	5.79	34.9	89.7	73.9	57.2	17.5	8.57	7.14	3.98	3.10
Max.	4.40	24	34	55	330	215	237	26	13	8.60	12	3.35
Min.	3.00	3.00	1.00	8.40	24	41	27	13	5.75	5.50	0.30	2.75
Runoff – mcm.	8.778	19.595	15.016	93.467	240.278	191.635	153.187	45.446	22.943	19.129	9.983	8.312

WATER YEAR 1972 : Max. 330 Min. 0.30 Mean 26.2 Annual Runoff 827.772 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.28, 71	07.00	263.60	360				

WANG RIVER BASIN

Mae Chang River at Ban Sop Po, Lampang (W. 15)

Location: Lat. 18°-08'-10" N., Long 99°-34'-55" E., On right bank about 1.5 kilometers upstream from Ban Sop Po, Amphoe Mae Tha, Lampang.

Drainage Area: 1,119 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 240.120 m. (M.S.L.)

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

- Location: Infrom of the camp of station W.15
- Elevation: + 251.680 m. (M.S.L.)

Gage Reading Frequency: 8 and 5 time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00, 24.00 hours on Apr.-Dec. and 06.00, 09.00, 12.00, 15.00, 18.00 hours on Jan.-Mar. respectively.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 8 readings.

Period of Available Gage Records: 1968-1971

Rating Operation:

- Period of Rating: 1970-1971
- Rated by Float: -
- Rated by Current Meter: 1970-1971

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

Overbank Flow Conditions: No overbank flow.

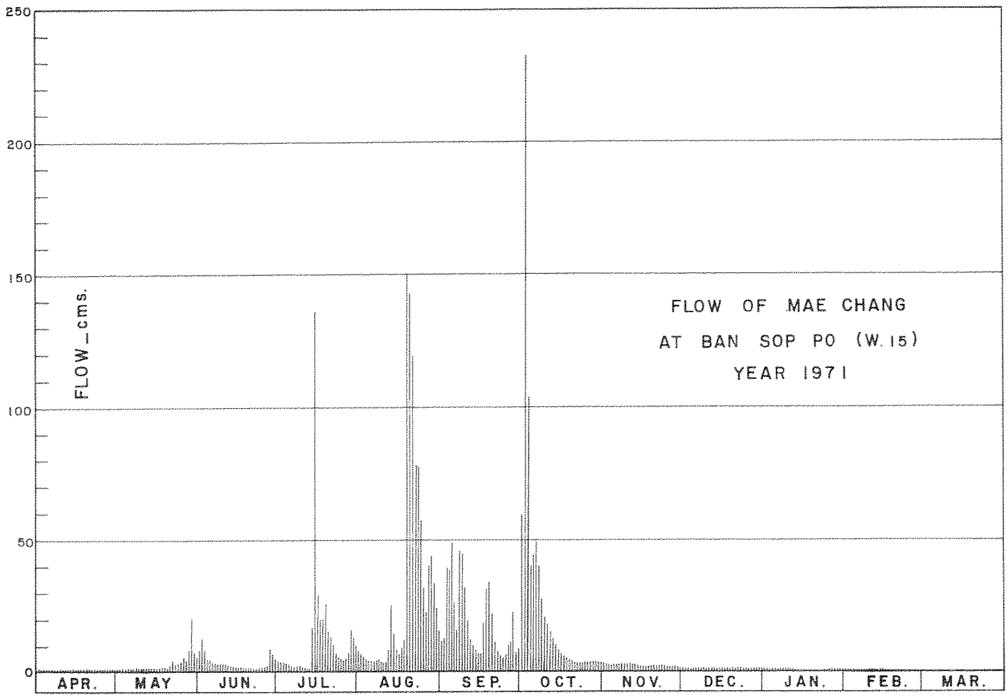
General Description Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	240.71	240.67	241.44	241.11	241.37	241.63	241.69	241.16	240.97	240.85	240.79	240.75
2	.71	.69	.69	.14	.30	.56	244.87	.14	.97	.85	.79	.75
3	.71	.72	.41	.15	.25	242.47	245.02	.13	.96	.85	.78	.75
4	.69	.71	.27	.13	.22	.46	243.49	.10	.95	.84	.78	.75
5	.69	.70	.15	.13	.21	.67	242.61	.08	.94	.84	.78	.75
6	240.72	240.75	241.12	241.07	241.20	242.04	242.26	241.06	240.93	240.83	240.77	240.75
7	.73	.77	.14	.02	.25	241.77	.68	.04	.93	.83	.75	.75
8	.70	.75	.07	240.99	.28	242.61	.63	.04	.92	.83	.76	.75
9	.69	.74	.02	241.04	.20	.59	.11	.04	.91	.83	.77	.75
10	.69	.74	.03	240.99	.17	.16	241.97	.08	.90	.83	.76	.75
11	240.69	240.74	241.01	240.93	241.19	241.88	241.89	241.08	240.90	240.83	240.76	240.75
12	.68	.73	240.96	.91	.51	.68	.83	.05	.89	.83	.77	.75
13	.68	.73	.89	.90	242.14	.59	.73	.03	.88	.82	.76	.75
14	.68	.73	.85	241.98	241.80	.49	.63	.02	.87	.81	.76	.75
15	.68	.73	.84	243.98	.52	.42	.49	.01	.87	.81	.76	.75
16	240.68	240.72	240.82	242.44	241.38	241.37	241.40	241.01	240.86	240.81	240.76	240.75
17	.68	.72	.81	.03	.40	.73	.37	.00	.86	.80	.76	.75
18	.68	.74	.82	241.86	.72	242.22	.33	.02	.86	.81	.76	.75
19	.68	.74	.82	242.13	244.15	.36	.31	.03	.85	.80	.76	.78
20	.68	.74	.81	241.79	.06	.06	.28	.03	.85	.79	.76	.74
21	240.73	240.93	240.80	241.66	243.44	241.76	241.24	241.02	240.85	240.81	240.76	240.74
22	.73	241.21	.79	.53	.17	.57	.20	.02	.85	.80	.76	.73
23	.72	.08	.79	.43	.17	.40	.18	.01	.86	.80	.74	.73
24	.75	.09	.79	.33	242.75	.34	.18	.00	.86	.79	.76	.73
25	.73	.20	.87	.27	.22	.28	.18	240.99	.86	.80	.76	.73
26	240.68	241.23	240.88	241.25	241.98	241.50	241.18	240.99	240.86	240.80	240.76	240.73
27	.67	.13	241.01	.24	242.49	.61	.20	.99	.85	.80	.77	.73
28	.67	.42	.49	.38	.56	242.04	.21	.98	.84	.79	.75	.73
29	.69	.92	.39	.31	.25	241.59	.20	.98	.84	.79	.76	.73
30	.68	.35	.17	.65	241.97	.42	.20	.98	.84	.80	-	.73
31	-	.26	-	.46	.81	-	.18	-	.85	.79	-	.72
Mean	240.70	240.91	241.03	241.47	241.97	241.84	241.86	241.04	240.88	240.81	240.76	240.74
Max.	240.75	241.92	241.69	243.98	244.15	242.67	245.02	241.16	240.97	240.85	240.79	240.75
Min.	240.67	240.67	240.79	240.90	241.17	241.28	241.18	240.98	240.84	240.79	240.75	240.72

WATER YEAR 1971 : Max. 245.02 m. Min. 240.67 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.00	7.30	2.60	6.05	11	* 12	3.10	1.35	0.75	0.45	0.25
2	0.05	0.00	12	2.90	5.00	9.70	* 217	2.90	1.35	0.75	0.45	0.25
3	0.05	0.10	6.70	3.00	4.25	39	* 232	2.80	1.30	0.75	0.40	0.25
4	0.00	0.05	4.55	2.80	3.80	38	* 99	2.50	1.25	0.70	0.40	0.25
5	0.00	0.00	3.00	2.80	3.65	48	* 45	2.30	1.20	0.70	0.40	0.25
6	0.10	0.25	2.70	2.20	3.50	22	* 30	2.10	1.15	0.65	0.35	0.25
7	0.15	0.35	2.90	1.70	4.25	14	49	1.90	1.15	0.65	0.25	0.25
8	0.00	0.25	2.20	1.45	4.70	45	46	1.90	1.10	0.65	0.30	0.25
9		0.20	1.70	1.90	3.50	44	24	1.90	1.05	0.65	0.35	0.25
10		0.20	1.80	1.45	3.20	26	20	2.30	1.00	0.65	0.30	0.25
11		0.20	1.60	1.15	3.40	17	18	2.30	1.00	0.65	0.30	0.25
12		0.15	1.30	1.05	8.70	12	16	2.00	0.95	0.65	0.55	0.25
13		0.15	0.95	1.00	25	10	13	1.80	0.90	0.60	0.30	0.25
14		0.15	0.75	* 20	15	8.30	11	1.70	0.85	0.55	0.30	0.25
15		0.15	0.70	* 135	* 8.90	6.90	8.30	1.60	0.85	0.55	0.30	0.25
16		0.10	0.60	* 37	* 6.20	6.05	6.50	1.60	0.80	0.55	0.30	0.25
17		0.10	0.55	* 22	* 6.50	13	5.75	1.50	0.80	0.50	0.30	0.25
18		0.20	0.60	* 17	* 13	28	5.45	1.70	0.80	0.55	0.30	0.25
19		0.20	0.60	25	*149	34	5.15	1.80	0.75	0.50	0.30	0.40
20	0.00	0.20	0.55	15	*142	23	4.70	1.80	0.75	0.45	0.30	0.20
21	0.15	1.15	0.50	12	* 95	14	4.10	1.70	0.75	0.55	0.30	0.20
22	0.15	3.65	0.45	9.10	* 77	9.90	3.50	1.70	0.75	0.50	0.30	0.15
23	0.10	2.30	0.45	7.10	* 77	6.50	3.30	1.60	0.80	0.50	0.20	0.15
24	0.25	2.40	0.45	5.45	* 53	5.60	3.30	1.50	0.80	0.45	0.30	0.15
25	0.15	3.50	0.85	4.55	28	4.70	3.30	1.45	0.80	0.50	0.30	0.15
26	0.00	3.95	0.90	4.25	20	8.50	3.30	1.45	0.80	0.50	0.30	0.15
27		2.80	1.60	4.10	39	11	3.50	1.45	0.75	0.50	0.35	0.15
28		6.90	8.30	6.20	43	22	3.65	1.40	0.70	0.45	0.25	0.15
29		19	6.35	15	29	10	3.50	1.40	0.70	0.45	0.30	0.15
30	0.00	5.75	3.20	11	20	* 6.90	3.50	1.40	0.70	0.50	–	0.15
31	–	4.40	–	7.70	15	–	3.30	–	0.75	0.45	–	0.10
Total	1.20	58.80	76.10	383.45	915.60	554.05	906.10	56.55	28.65	17.80	9.40	6.75
Mean	0.040	1.90	2.54	12.4	29.5	18.5	29.2	1.88	0.92	0.57	0.32	0.21
Max.	0.25	19	12	135	149	48	232	3.10	1.35	0.75	0.45	0.25
Min.	0.00	0.00	0.45	1.00	3.20	4.70	3.30	1.40	0.70	0.45	0.25	0.10
Runoff – mcm.	0.104	5.080	6.575	33.130	79.108	47.870	78.287	4.886	2.475	1.538	0.812	0.583

WATER YEAR 1971 : Max. 232 Min. 0.00 Mean 8.24 Annual Runoff 260.448 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.3,71	18.00	245.67	306				

WANG RIVER BASIN

Mae Wang River at Ban Hai, Lampang (W. 16)

Location: Lat. 18°-48'-12" N., Long 98°-38'-45" E., On right bank at Ban Hai, Amphoe Chae Hom, Lampang.

Drainage Area: 1,284 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Near the automatic gage building.
Elevation: + 7.676 m. (A.D.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on Apr.-Sept. Recording on Oct.-Mar.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 24 hourly readings.

Period of Avilable Gage Records: 1971 to date

Rating Operation:

Period of Rating: 1971 to date
Rated by Float: -
Rated by Current Meter: 1971 to date

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

Overbank Flow Conditions: No overbank flow.

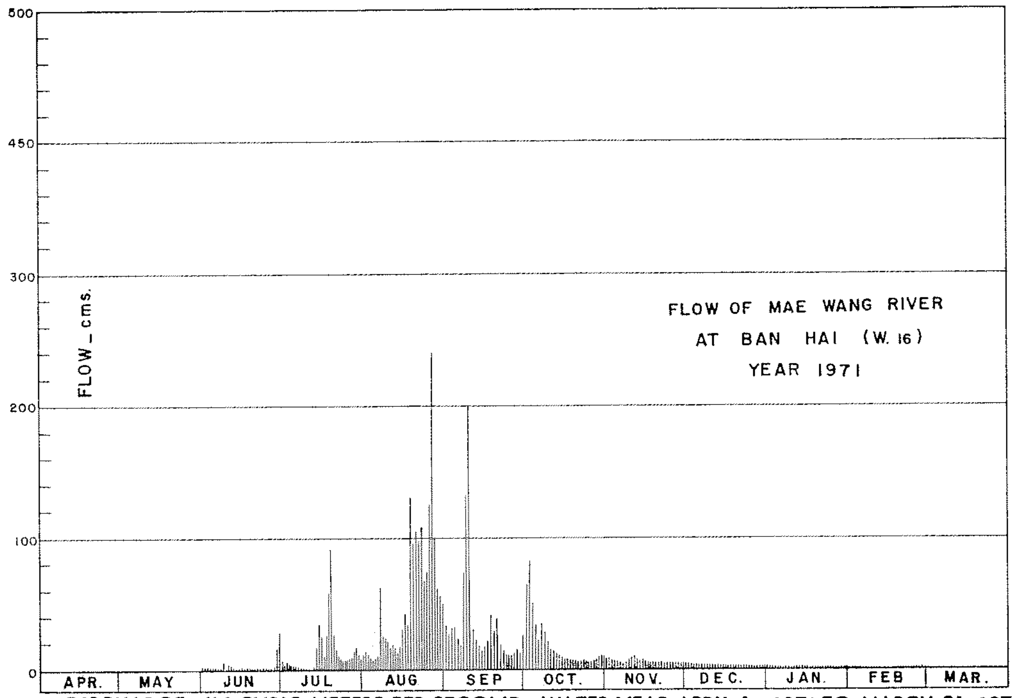
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: Stream gaging station began on June 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.56	0.93	1.31	1.88	1.74	1.08	0.81	0.67	0.49	0.40
2			.51	.76	.33	.80	4.05	.03	.81	.66	.50	.39
3			.48	.80	.19	.86	2.80	.01	.80	.65	.50	.40
4			.46	.73	.05	.93	.25	0.98	.80	.64	.49	.42
5			.44	.67	.06	.75	1.89	.95	.78	.63	.47	.42
6			0.43	0.62	1.09	1.61	1.65	0.94	0.77	0.61	0.46	0.40
7			.42	.59	2.46	.49	.64	.89	.76	.59	.46	.40
8			.43	.56	1.74	2.63	.92	.90	.75	.57	.46	.39
9			.85	.53	.72	4.00	.68	1.07	.74	.56	.46	.39
10			.48	.50	.57	2.40	.49	.14	.74	.55	.46	.41
11			0.69	0.48	1.46	1.99	1.43	1.18	0.74	0.55	0.45	0.42
12			.47	.46	.52	.76	.39	.10	.74	.55	.44	.42
13			.43	.47	.39	.60	.31	.04	.72	.55	.43	.42
14			.39	1.46	.27	.49	.25	.02	.71	.54	.44	.41
15			.44	.92	.64	.39	.19	0.99	.70	.54	.44	.40
16			0.46	1.54	2.11	1.51	1.13	0.95	0.70	0.54	0.43	0.39
17			.40	.19	.08	.67	.10	.93	.69	.55	.44	.38
18			.36	.80	1.89	2.06	.08	.91	.68	.54	.44	.36
19			.35	2.95	3.41	1.77	.05	.90	.68	.54	.45	.37
20			.33	1.95	.04	2.01	.03	.89	.66	.53	.43	.38
21			0.34	1.58	3.12	1.64	1.00	0.88	0.66	0.52	0.42	0.39
22			.37	.25	.04	.49	0.98	.86	.66	.51	.42	.39
23			.40	.08	.16	.37	.97	.85	.66	.50	.44	.39
24			.45	0.99	2.61	.29	.94	.83	.66	.50	.45	.38
25			.41	1.04	.71	.23	.91	.83	.64	.51	.45	.39
26			0.39	1.10	3.26	1.23	0.93	0.82	0.63	0.52	0.44	0.39
27			.38	.10	4.27	.31	1.02	.82	.62	.50	.42	.38
28			.38	.20	3.03	.38	.08	.82	.61	.51	.41	.39
29			1.32	.49	2.45	.33	.16	.82	.62	.51	.40	.39
30			.76	.28	.37	.24	.25	.81	.67	.50	-	.38
31			-	.10	.23	-	.15	-	.68	.50	-	.38
Mean			0.52	1.10	2.15	1.74	1.43	0.94	0.71	0.55	0.45	0.39
Max.			1.76	2.95	4.27	4.00	4.05	1.18	0.81	0.67	0.50	0.42
Min.			0.33	0.46	1.05	1.23	0.91	0.81	0.61	0.50	0.40	0.36

WATER YEAR 1971 : Max. 4.27 m. Min. 0.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			2.10	6.09	13	32	26	8.20	4.62	3.20	1.43	0.80
2			1.60	4.10	13	28	206	7.45	4.62	3.10	1.50	0.74
3			1.36	4.50	10	31	81	7.15	4.50	3.00	1.50	0.80
4			1.22	3.80	7.75	34	49	6.74	4.50	2.90	1.43	0.94
5			1.08	3.20	7.90	27	32	6.35	4.30	2.80	1.29	0.94
6			1.01	2.70	8.35	22	23	6.22	4.20	2.60	1.22	0.80
7			0.94	2.40	61	18	23	5.58	4.10	2.40	1.22	0.80
8			1.01	2.10	26	70	34	5.70	4.00	2.20	1.22	0.74
9			5.10	1.80	26	199	24	8.05	3.90	2.10	1.22	0.74
10			1.36	1.50	20	57	18	9.26	3.90	2.00	1.22	0.87
11			3.40	1.36	17	37	16	10	3.90	2.00	1.15	0.94
12			1.29	1.22	19	27	15	8.50	3.90	2.00	1.08	0.94
13			1.01	1.29	15	21	13	7.60	3.70	2.00	1.01	0.94
14			0.74	17	12	18	11	7.30	3.60	1.90	1.08	0.87
15			1.08	34	23	15	10	6.87	3.50	1.90	1.08	0.80
16			1.22	19	42	19	9.07	6.35	3.50	1.90	1.01	0.74
17			0.80	10	41	24	8.50	6.09	3.40	2.00	1.08	0.68
18			0.56	28	32	40	8.20	5.83	3.30	1.90	1.08	0.56
19			0.50	91	130	27	7.75	5.70	3.30	1.90	1.15	0.62
20			0.38	35	98	38	7.45	5.58	3.10	1.80	1.01	0.68
21			0.44	21	105	23	7.00	5.46	3.10	1.70	0.94	0.74
22			0.62	11	98	18	6.74	5.22	3.10	1.60	0.94	0.74
23			0.80	8.20	108	14	6.61	5.10	3.10	1.50	1.08	0.74
24			1.15	6.87	69	12	6.22	4.86	3.10	1.50	1.15	0.68
25			0.87	7.60	76	11	5.83	4.86	2.90	1.60	1.15	0.74
26			0.74	8.50	125	11	6.09	4.74	2.80	1.70	1.08	0.74
27			0.68	8.50	240	13	7.30	4.74	2.70	1.50	0.94	0.68
28			0.68	10	97	15	8.20	4.74	2.60	1.60	0.87	0.74
29			13	18	60	13	9.64	4.74	2.70	1.60	0.80	0.74
30			27	12	56	11	11	4.62	3.20	1.50	–	0.68
31			–	8.50	48	–	9.45	–	3.30	1.50	–	0.68
Total			73.74	390.23	1,704	925	706.05	189.60	110.44	62.90	32.93	23.84
Mean			2.46	12.6	55.0	30.8	22.8	6.32	3.56	2.03	1.13	0.77
Max.			27	91	240	199	206	10	4.62	3.20	1.50	0.94
Min.			0.38	1.22	7.75	11	5.83	4.62	2.60	1.50	0.80	0.56
Runoff – mcm.			6.371	33.716	147.226	79.920	61.003	16.381	9.542	5.434	2.845	2.060

WATER YEAR 1971 : Max. 240 Min. 0.38 Mean 4,218.73 Annual Runoff 364.498 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.27, 71	12.00	4.48	275				

YOM RIVER BASIN

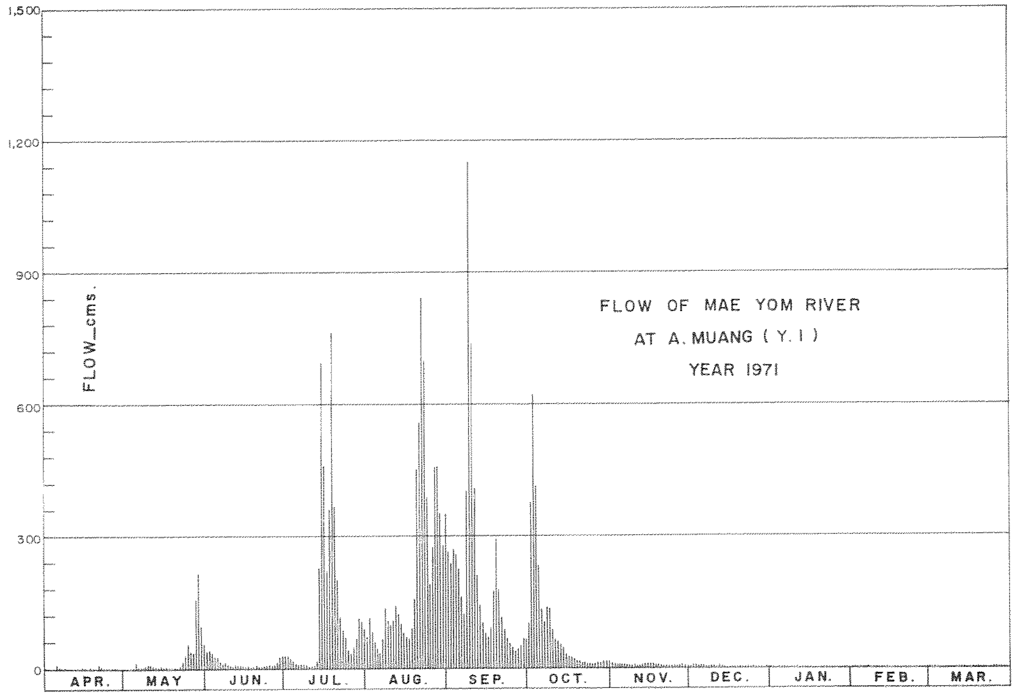
Mae Yom River at Muang Phrae (Y. 1)

Location:	Lat. 18^0-08'-32" N., Long 100^0-08'-07" E., On left bank infront of the 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:	+ 143.892 m. (M.S.L.)
Bench Mark:	B.M.-RID No.1
Location:	On left bank about 23 meters downstream from gage site.
Elevation:	+ 153.810 m. (M.S.L.)
Gage Reading Frequency:	7 and 5-time daily readings at 01.00, 06.00, 09.00, 12.00, 15.00, 18.00, 24.00 hours on Apr.-Oct. and 06.00, 09.00, 12.00, 15.00 and 18.00 hours on Nov.-Mar. respectively.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 and 7 readings.
Period of Available Gage Records:	1930-1971
Rating Operation	
Period of Rating:	1954, 1956-1960
Rated by Float:	-
Rated by Current Meter:	1954, 1956-1960
Stability of Channel Regimes:	Fairly stable, no Shifting adjustment for flow computation for years without actual ratings.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1957-1960. Upstream State diversions for irrigation of about 24,000 hectares at Mae Yom Weir. No adjustment made for virgin flow.
Overbank Flow Conditions:	No overbank flow.
Remarks:	Discharge records for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	144.70	144.65	145.86	145.70	146.28	147.86	146.63	145.37	145.18	144.99	144.89	144.88
2	.74	.65	.83	.67	.73	.70	149.14	.36	.31	.99	.88	.88
3	.77	.66	.72	.56	.46	147.94	.85	.33	.25	.98	.88	.87
4	.88	.92	.65	.37	.16	.85	148.57	.32	.26	.98	.88	.88
5	145.22	145.36	.56	.24	145.95	.61	147.64	.32	.20	.98	.87	.88
6	144.81	144.98	145.34	145.24	145.79	147.19	146.90	145.29	145.19	144.98	144.87	144.88
7	.71	.91	.28	.23	146.38	146.83	.62	.29	.19	145.01	.87	.88
8	.70	145.01	.34	.13	146.96	148.33	146.00	.29	.19	.02	.87	.88
9	.68	.15	.19	.07	.64	151.90	146.97	.31	.19	144.98	.85	.88
10	.70	.16	.02	.02	.56	149.94	.51	.28	.19	.98	.85	.87
11	144.72	145.10	145.09	145.00	146.71	148.03	146.28	145.26	145.18	144.96	144.84	144.86
12	.70	144.99	.14	.04	147.02	147.42	.18	.29	.10	.96	.83	.85
13	.69	.89	.17	.16	146.81	.02	.09	.32	.10	.97	.82	.84
14	.69	.97	.12	147.49	.62	146.68	145.98	.32	.08	.95	.81	.84
15	.72	.91	.07	150.18	.39	.42	.82	.34	.08	.91	.81	.83
16	144.71	144.82	145.09	148.96	146.30	146.32	145.72	145.33	145.08	144.90	144.81	144.83
17	.70	.89	144.99	147.36	.25	.55	.68	.34	.08	.90	.81	.83
18	.70	.82	.99	148.60	.49	147.24	.62	.29	.02	.89	.81	.83
19	.70	.69	.99	150.46	147.22	148.09	.54	.23	.01	.89	.80	.82
20	.77	.91	145.04	147.98	149.36	147.19	.53	.22	144.99	.89	.82	.82
21	144.75	145.04	145.02	147.20	149.63	146.79	145.50	145.15	145.04	144.88	144.84	144.82
22	145.19	.11	144.99	146.72	150.78	.50	.43	.12	.07	.87	.87	.82
23	144.93	.48	145.07	.45	149.96	.23	.37	.22	.05	.84	.84	.82
24	.75	.80	.11	.29	148.53	.11	.37	.22	.03	.84	.84	.82
25	.74	146.13	.16	145.95	147.29	.01	.37	.22	.02	.88	.84	.84
26	144.70	145.86	145.05	145.87	147.99	145.92	145.40	145.19	145.01	144.89	144.87	144.84
27	.69	.86	.23	146.01	149.01	.99	.48	.31	.01	.89	.90	.82
28	.69	147.10	.55	.24	.03	146.09	.46	.28	.01	.91	.89	.82
29	.68	.55	.72	.73	148.37	.27	.55	.26	.02	.90	.89	.83
30	.66	146.37	.70	.63	147.95	.26	.51	.16	.02	.89	-	.83
31	-	.06	-	.45	148.44	-	.50	-	.01	.89	-	.83
Mean	144.76	145.32	145.26	146.45	147.39	147.22	146.26	145.27	145.11	144.93	144.85	144.85
Max.	145.22	147.55	145.86	150.46	150.78	151.90	149.85	145.37	145.31	145.02	144.90	144.88
Min.	144.66	144.65	144.99	145.00	145.79	145.92	145.37	145.12	144.99	144.84	144.80	144.82

WATER YEAR 1971 : Max. 151.90 m. Min. 144.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	38	28	70	258	105	13	7.60	3.80	1.80	1.60
2	0.00	0.00	36	26	115	234	488	12	10	3.80	1.60	1.60
3	0.00	0.00	29	20	88	271	623	11	9.00	3.60	1.60	1.40
4	1.60	2.40	25	13	61	256	377	11	9.20	3.60	1.60	1.60
5	8.40	12	20	8.80	44	221	226	11	8.00	3.60	1.40	1.60
6	0.20	3.60	12	8.80	33	165	132	9.80	7.80	3.60	1.40	1.60
7	0.00	2.20	9.60	8.40	80	125	104	9.80	7.80	4.20	1.40	1.60
8		4.20	12	6.60	138	334	142	9.80	7.80	4.40	1.40	1.60
9		7.00	7.80	5.40	106	1,152	139	10	7.80	3.60	1.00	1.60
10		7.20	4.40	4.40	98	645	93	9.60	7.80	3.60	1.00	1.40
11		6.00	5.80	4.00	113	285	70	9.20	7.60	3.20	0.80	1.20
12		3.80	6.80	4.80	144	195	62	9.80	6.00	3.20	0.60	1.00
13		1.80	7.40	7.20	123	144	55	11	6.00	3.40	0.40	0.80
14		3.40	6.40	205	104	110	46	11	5.60	3.00	0.20	0.80
15		2.20	5.80	697	81	84	35	12	5.60	2.20	0.20	0.60
16		0.40	5.80	447	72	74	29	11	5.60	2.00	0.20	0.60
17		1.80	3.80	186	68	97	27	12	5.60	2.00	0.20	0.60
18		0.40	3.80	382	91	171	23	9.80	4.40	1.80	0.20	0.60
19		0.00	3.80	764	168	294	20	8.60	4.20	1.80	0.00	0.40
20		2.20	4.80	278	522	165	19	8.40	3.80	1.80	0.40	0.40
21	0.00	4.80	4.40	166	576	121	18	7.00	4.80.	1.60	0.80	0.40
22	7.80	6.20	3.80	114	841	92	15	6.40	5.40	1.40	1.40	0.40
23	2.60	17	5.40	87	647	66	13	8.40	5.00	0.80	0.80	0.40
24	0.00	34	6.20	71	369	57	13	8.40	4.60	0.80	0.80	0.40
25		58	7.20	44	177	49	13	8.40	4.40	1.60	0.80	0.80
26		38	5.00	38	278	42	14	7.80	4.20	1.80	1.40	0.80
27		38	8.60	49	456	47	17	10	4.20	1.80	2.00	0.40
28		154	20	67	459	55	16	9.60	4.20	2.20	1.80	0.40
29		213	29	115	341	70	20	9.20	4.40	2.00	1.80	0.60
30	0.00	79	28	105	272	69	18	7.20	4.40	1.80	–	0.60
31	–	53	–	88	353	–	18	–	4.20	1.80	–	0.60
Total	20.60	755.60	365.60	4,048.40	7,088	5,948	2,990	292.20	187.00	79.80	29.00	28.40
Mean	0.69	24.4	12.2	130	229	198	96.4	9.74	6.03	2.57	1.00	0.92
Max.	8.40	213	38	764	841	1,152	623	13	10	4.40	2.00	1.60
Min.	0.00	0.00	3.80	4.00	33	42	13	6.40	3.80	0.80	0.00	0.40
Runoff – mcm.	1.780	65.284	31.588	349.782	612.403	513.907	258.336	25.246	16.157	6.894	2.506	2.454

WATER YEAR 1971 ': Max. 1,152 Min. 0.00 Mean 59.6 Annual Runoff 1,886.337 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.9,71	15.00	152.29	1,277				

YOM RIVER BASIN

Mae Yom River at Sawankhalok Bridge, Sukhothai (Y. 3A)

Location: Lat. 17°-18'-29" N., Long 99°-49'-43" E., On right bank about 100 meters downstream from Sawankhalok Bridge, Amphoe Sawankhalok, Sukhothai.

Drainage Area: 13,583 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 51.00 m (M.S.L.)

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

Location: On left side of automatic gage building.
Elevation: + 60.599 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: 1967 to date

Rating Operation:

Period of Rating: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

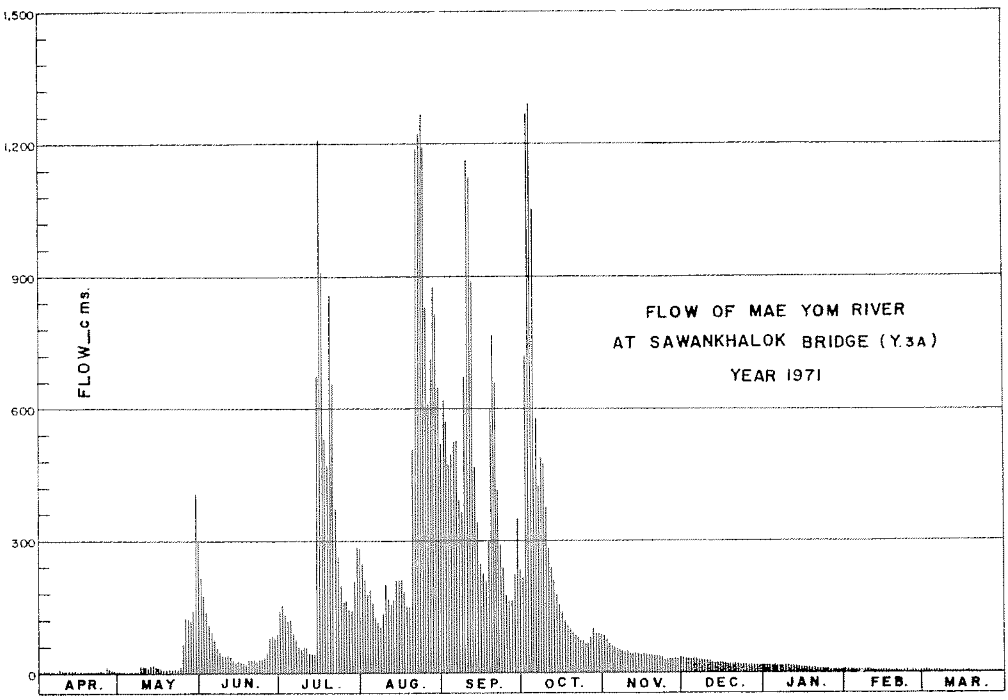
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defind by discharge measurements made during 1971. Upstream State duversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	51.52	51.53	54.23	53.71	54.58	57.08	54.24	53.03	52.32	52.02	51.75	51.59
2	.51	.50	53.92	.79	.32	56.71	57.72	52.96	.29	.03	.75	.70
3	.51	.52	.60	.50	.02	.09	60.45	.80	.28	.04	.75	.69
4	.49	.49	.30	.42	.18	.32	.54	.72	.28	.02	.74	.67
5	.47	.46	.12	.44	53.86	.48	59.13	.68	.31	.00	.73	.66
6	51.47	51.47	52.90	53.13	53.56	56.50	57.03	52.62	52.28	51.99	51.71	51.64
7	.53	.46	.70	52.92	.38	55.59	55.70	.61	.27	.98	.71	.62
8	.79	.52	.54	.69	.30	.39	56.21	.58	.26	.97	.69	.61
9	.60	.93	.40	.58	.65	57.33	55.99	.53	.23	.96	.69	.63
10	.59	.90	.39	.70	54.19	59.97	.43	.57	.22	.93	.68	.61
11	51.59	51.82	52.47	52.67	53.92	59.73	54.91	52.49	52.20	51.92	51.67	51.62
12	.56	.89	.34	.50	.83	57.14	.50	.50	.19	.90	.66	.62
13	.55	.97	.17	.46	54.00	55.65	.26	.48	.17	.89	.65	.65
14	.54	.93	.17	.43	.28	54.98	.03	.46	.14	.88	.65	.63
15	.53	.86	.20	57.35	.26	.61	53.82	.46	.12	.87	.65	.64
16	51.52	51.86	52.15	60.17	54.29	54.42	53.63	52.48	52.12	51.85	51.66	51.65
17	.51	.76	.08	58.63	53.98	.22	.45	.47	.11	.85	.66	.63
18	.50	.71	.05	56.16	.78	.71	.31	.44	.09	.82	.65	.62
19	.48	.72	.24	55.70	.77	57.82	.24	.43	.06	.81	.64	.61
20	.47	.69	.21	58.42	54.87	.91	.16	.42	.04	.82	.65	.59
21	51.47	51.67	52.23	57.17	58.19	56.47	53.05	52.39	52.04	51.80	51.64	51.58
22	.54	.73	.17	55.36	60.10	55.30	52.96	.37	.05	.78	.63	.57
23	.60	.76	.23	54.66	.25	54.74	.91	.34	.04	.78	.64	.57
24	.58	.75	.29	.17	.42	.28	.87	.29	.04	.76	.62	.57
25	.57	52.59	.30	53.87	58.58	53.97	.81	.27	.03	.76	.65	.54
26	51.87	53.49	52.55	53.86	56.55	53.85	52.81	52.30	52.03	51.76	51.68	51.56
27	.76	.50	.99	.70	57.47	54.14	53.10	.30	.03	.74	.67	.56
28	.67	.44	53.02	.62	58.51	.57	.23	.31	.01	.73	.65	.55
29	.60	.58	52.96	54.23	58.09	55.32	.09	.31	.00	.72	.66	.55
30	.56	55.72	53.11	.87	57.16	54.50	.08	.34	.00	.74	-	.56
31	-	.01	-	.86	56.41	-	.08	-	.01	.75	-	.56
Mean	51.56	52.20	52.63	54.47	55.55	55.86	54.64	52.50	52.14	51.87	51.67	51.61
Max.	51.87	55.72	54.23	60.17	60.42	59.97	60.54	53.03	52.32	52.04	51.75	51.70
Min.	51.47	51.46	52.05	52.43	53.30	53.85	52.81	52.27	52.00	51.72	51.62	51.54

WATER YEAR 1971 : Max. 60.54 m. Min. 51.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.40	2.60	205	146	248	620	206	83	34	19	8.50	6.70
2	2.20	2.00	168	154	215	561	732	78	32	19	8.50	7.00
3	2.20	2.40	135	125	179	461	1,271	66	32	20	8.50	6.70
4	1.90	1.90	106	117	199	498	1,291	60	32	19	8.20	6.10
5	1.70	1.60	91	119	162	524	996	58	34	18	7.90	5.80
6	1.70	1.70	73	91	131	527	612	53	32	18	7.30	5.20
7	2.60	1.60	59	75	113	386	403	53	31	17	7.30	4.60
8	9.70	2.40	48	58	106	358	481	51	31	17	6.70	4.30
9	4.00	15	39	51	140	662	446	47	29	16	6.70	4.90
10	3.80	14	38	59	200	1,162	363	50	28	15	6.40	4.30
11	3.80	11	43	57	168	1,116	291	44	27	15	6.10	4.60
12	3.20	14	35	45	158	630	238	45	26	14	5.80	4.60
13	3.00	17	25	43	177	395	208	44	25	14	5.50	5.50
14	2.80	15	25	41	211	300	181	43	24	13	5.50	4.90
15	2.60	12	27	665	208	252	157	43	23	13	5.50	5.20
16	2.40	12	24	1,209	212	228	138	44	23	12	5.80	5.50
17	2.20	8.80	21	898	175	203	120	43	22	12	5.80	4.90
18	2.00	7.30	20	473	153	265	107	41	22	12	5.50	4.60
19	1.80	7.60	29	403	152	750	101	41	20	11	5.20	4.30
20	1.70	6.70	28	858	286	766	94	40	20	10	5.50	3.80
21	1.70	6.16	29	635	816	522	85	38	20	10	5.20	3.60
22	2.80	7.90	25	353	1,194	345	78	37	20	9.70	4.90	3.40
23	4.00	8.80	29	259	1,227	269	74	35	20	9.40	5.20	3.40
24	3.60	8.50	32	197	1,264	211	71	32	20	8.80	4.60	3.40
25	3.40	51	33	163	888	174	67	31	19	8.80	5.50	2.80
26	13	124	48	162	583	164	67	33	19	8.80	6.40	3.20
27	8.80	125	80	145	687	164	89	33	19	8.20	6.10	3.20
28	6.10	119	83	137	875	247	100	34	18	7.90	5.50	3.00
29	4.00	133	78	205	798	348	88	34	18	7.60	5.80	3.00
30	3.20	406	90	286	633	238	87	35	18	8.20	–	3.20
31	–	304	–	285	513	–	87	–	18	8.50	–	3.20
Total	108.30	1,449.90	1,766	8,514	13,071	13,372	9,329	1,369	756	398.90	181.40	138.90
Mean	3.61	46.8	58.9	275	422	446	301	45.6	24.4	12.9	6.25	4.48
Max.	13	406	205	1,209	1,264	1,162	1,291	83	34	20	8.50	7.00
Min.	1.70	1.60	20	41	106	160	67	31	18	7.60	4.60	2.80
Runoff – mcm.	9.357	125.271	152.582	735.610	1,129.334	1,155.341	806.026	118.282	65.318	34.465	15.673	12.001

WATER YEAR 1971 : Max. 1,291 Min. 1.60 Mean 138 Annual Runoff 4,359.260 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 4,71	10.00	60.62	1,308				

YOM RIVER BASIN

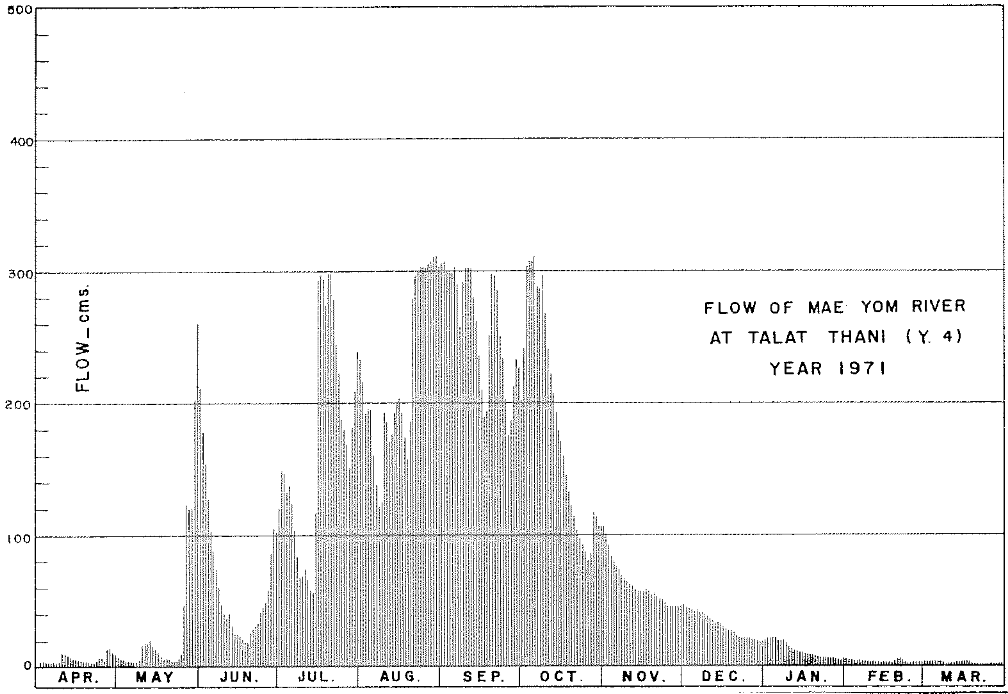
Mae Yom River at Talat Thani, Sukhothai (Y. 4)

Location:	Lat. 17°-00'-18" N., Long 99°-49'-31" E., On left bank infront of the Governer's house, Amphoe Muang, Sukhothai.
Drainage Area:	17,731 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 44.00 m (M.S.L.)
Bench Mark:	B.M.-H.S.
Location:	At about 22 meters from the top of the vertical staff 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 to date
Rating Operation:	
Period of Rating:	1954-1956, 1967-1970
Rated by Float:	-
Rated by Current Meter:	1954-1956, 1967-1970
Stability of Channel Regimes:	Unstable, no shifting adjustment but periodic curves are used for flow computation.
Overbank Flow Conditions:	Overbank flow starts at elevation + 49.00 m (M.S.L.) on left bank for this year is neglegible. Records are channel flow only.
General Description:	Records fair. Stage discharge relationship used is defined by discharge measurements made during 1970. Upstream State diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.30	45.54	48.71	48.02	48.84	49.07	48.70	47.90	46.90	46.13	45.47	45.28
2	.29	.46	.50	.32	.73	.07	.91	.85	.86	.15	.45	.30
3	.26	.40	.31	.31	.63	.05	49.06	.74	.82	.18	.44	.33
4	.24	.38	.05	.17	.65	.05	.07	.60	.79	.20	.44	.32
5	.21	.36	47.82	.21	.57	.05	.07	.54	.77	.17	.42	.32
6	45.20	45.32	47.61	48.05	48.37	49.06	49.08	47.46	46.79	46.15	45.40	45.30
7	.21	.33	.37	47.80	.20	.00	.02	.40	.76	.12	.36	.29
8	.20	.29	.11	.56	.07	48.93	.02	.36	.74	.11	.36	.27
9	.45	.36	46.82	.34	.10	49.03	.04	.31	.69	.08	.35	.22
10	.70	.85	.64	.34	.63	.06	48.94	.26	.65	.01	.33	.21
11	45.67	46.06	46.55	47.47	48.56	49.06	48.90	47.23	46.63	45.91	45.32	45.22
12	.68	.03	.71	.35	.49	.06	.80	.20	.61	.86	.30	.22
13	.50	.11	.47	.19	.53	.00	.71	.16	.56	.81	.29	.25
14	.43	.00	.29	.09	.67	48.93	.62	.13	.53	.78	.28	.29
15	.41	45.83	.28	48.04	.68	.83	.54	.13	.49	.74	.27	.26
16	45.36	45.74	46.26	49.03	48.69	48.72	48.44	47.15	46.45	45.70	45.25	45.27
17	.34	.63	.14	.04	.61	.62	.34	.15	.42	.68	.26	.30
18	.32	.53	.04	.03	.47	.66	.24	.12	.40	.68	.29	.24
19	.29	.45	.10	48.98	.40	49.00	.13	.08	.37	.65	.31	.21
20	.27	.52	.27	49.04	.68	.05	.04	.08	.32	.63	.43	.18
21	45.26	45.43	46.38	49.04	49.01	49.04	47.97	47.05	46.29	45.63	45.50	45.17
22	.27	.40	.45	48.98	.04	48.96	.88	.00	.23	.60	.46	.15
23	.47	.45	.57	.87	.05	.87	.78	46.99	.20	.60	.28	.15
24	.50	.50	.78	.73	.06	.74	.72	.92	.17	.55	.26	.16
25	.44	.77	.86	.58	.06	.62	.66	.84	.15	.54	.23	.14
26	45.39	47.55	46.95	48.52	49.06	48.53	47.56	46.84	46.16	45.50	45.26	45.12
27	.82	48.08	47.41	.48	.07	.60	.66	.88	.14	.51	.31	.11
28	.87	.06	.84	.34	.07	.73	48.01	.87	.11	.49	.31	.15
29	.76	47.94	.88	.58	.08	.84	47.93	.86	.10	.46	.28	.15
30	.62	48.82	.84	.82	.08	.81	.90	.87	.10	.45	-	.20
31	-	.94	-	.86	.06	-	.90	-	.10	.48	-	.14
Mean	45.42	46.10	47.04	48.30	48.72	48.90	48.50	47.20	46.50	45.79	45.34	45.22
Max.	45.87	48.94	48.71	49.04	49.08	49.07	49.08	47.90	46.90	46.20	45.50	45.33
Min.	45.20	45.29	46.04	47.09	48.07	48.53	47.56	46.84	46.10	45.45	45.23	45.11

WATER YEAR 1971 : Max. 49.08 m. Min. 45.11 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.50	7.10	205	117	239	306	203	106	47	20	6.05	3.20
2	3.35	5.90	171	148	209	306	250	102	45	21	5.75	3.50
3	2.90	5.00	147	147	191	298	302	93	44	22	5.60	3.95
4	2.60	4.70	119	131	194	298	306	83	43	22	5.60	3.80
5	2.15	4.40	99	136	181	298	306	79	42	22	5.30	3.80
6	2.00	3.80	84	119	154	302	310	74	43	21	5.00	3.50
7	2.15	3.95	69	97	134	279	287	70	41	20	4.40	3.35
8	2.00	3.35	56	80	121	257	287	68	41	20	4.40	3.05
9	5.75	4.40	44	67	124	291	295	65	39	19	4.25	2.30
10	10	13	37	67	191	302	260	63	37	17	3.95	2.15
11	9.40	18	37	75	180	302	247	61	36	15	3.80	2.30
12	9.60	18	39	68	170	302	222	60	36	13	3.50	2.30
13	6.50	20	31	59	175	279	205	58	34	12	3.35	2.75
14	5.45	17	25	55	198	257	189	57	33	12	3.20	3.35
15	5.15	13	25	119	200	229	177	57	32	11	3.05	2.90
16	4.40	11	24	291	201	207	163	58	30	10	2.75	3.05
17	4.10	8.60	21	295	188	189	150	58	29	9.60	2.90	3.50
18	3.80	6.95	18	291	167	196	139	56	28	9.60	3.35	2.60
19	3.35	5.75	19	273	157	279	127	55	28	9.00	3.65	2.15
20	3.05	6.80	25	295	200	298	119	55	26	8.60	5.45	1.80
21	2.90	5.45	28	295	283	295	112	53	25	8.60	6.50	1.70
22	3.05	5.00	30	273	295	266	104	51	23	8.00	5.90	1.50
23	6.05	5.75	34	239	298	239	96	51	22	8.00	3.20	1.50.
24	6.50	6.50	42	209	302	211	91	48	22	7.25	2.90	1.60
25	5.60	11	45	183	302	189	87	45	21	7.10	2.45	1.40
26	4.85	80	49	174	302	175	80	45	21	6.50	2.90	1.20
27	12	122	71	168	306	186	87	46	21	6.65	3.65	1.10
28	14	120	101	150	306	209	116	46	20	6.35	3.65	1.50
29	11	110	104	183	310	232	113	45	19	5.90	3.20	1.50
30	8.40	227	101	227	310	224	106	46	19	5.75	–	2.00
31	–	260	–	237	302	–	106	–	19	6.20	–	1.40
Total	165.55	1,133.40	1,900	5,268	6,883	7,701	5,642	1,854	966	390.10	119.65	75.70
Mean	5.52	36.6	63.3	170	222	257	182	61.8	31.2	12.6	4.12	2.44
Max.	14	260	205	295	310	306	310	106	47	22	6.50	3.95
Min.	2.00	3.35	18	55	121	175	80	45	19	5.75	2.45	1.10
Runoff - mcm.	14.304	97.926	164.160	455.155	594.691	665.366	487.469	160.186	83.462	33.705	10.338	6.540

WATER YEAR 1971 : Max. 310 Min. 1.10 Mean 87.7 Annual Runoff 2,773.302 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time.	Gage-Height	Discharge
Aug.28, 72	15.00	49.08	310				

YOM RIVER BASIN

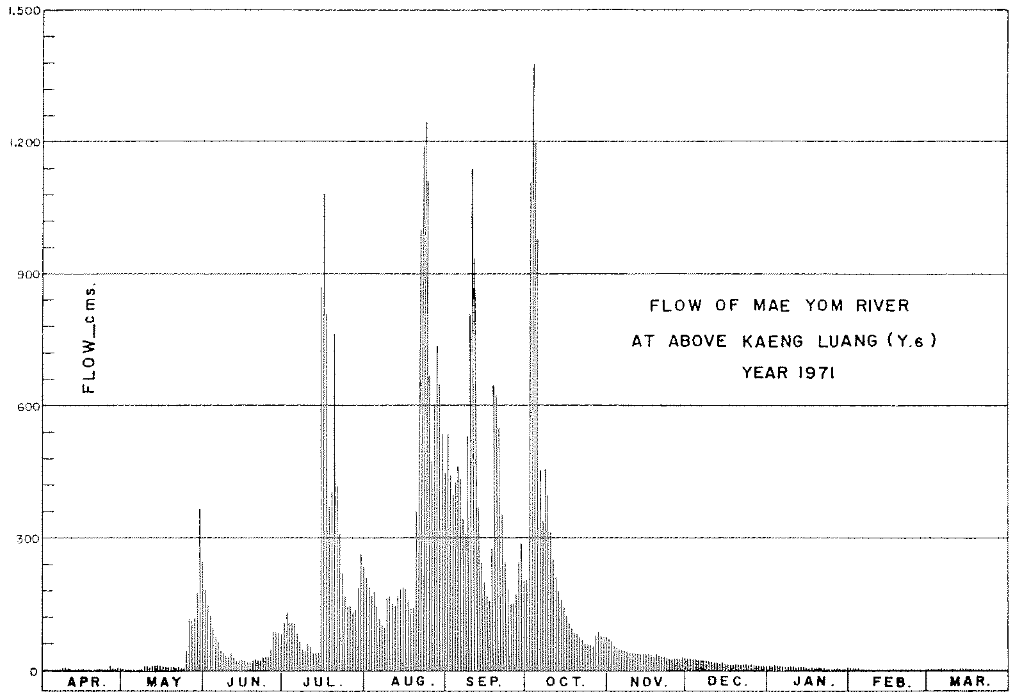
Mae Yom River at above Kaeng Luang, Sukhothai (Y. 6)

Location:	Lat. 17°-26'-03" N., Long 99°-47'-32" E., On left bank about 150 meters above Kaeng Luang, Amphoe Si Satchanalai, Sukhothai.
Drainage Area:	12,658 sq.km.
Type of Gage:	Water-Stage recorder.
Zero Gage at Bottom at:	+ 59.00 m (M.S.L.)
Bench Mark:	B.M.-Y.6
Location:	Near automatic gage building.
Elevation:	+ 68.928 m (M.S.L.)
Gage Reading Frequency:	Recording.
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 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:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. The data presented is made by discharge measurements during 1971. Flow diverted for irrigation of about 24,000 hectares at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.66	59.68	61.87	61.42	62.13	63.66	61.93	61.03	60.44	60.15	59.86	59.83
2	.64	.68	.69	.55	61.97	.28	65.12	60.95	.43	.16	.86	.83
3	.63	.67	.45	.35	.84	.07	66.27	.84	.42	.16	.85	.81
4	.61	.63	.23	.36	.91	.23	.48	.80	.42	.13	.85	.80
5	.61	.61	.08	.32	.65	.36	64.44	.75	.42	.13	.83	.79
6	59.62	59.61	60.93	61.08	61.43	63.19	63.31	60.72	60.41	60.12	59.83	59.78
7	.67	.61	.74	60.92	.33	62.70	62.78	.70	.39	.11	.82	.77
8	.94	.83	.61	.72	.26	.66	63.33	.68	.36	.11	.81	.77
9	.83	60.08	.51	.71	.79	64.14	62.95	.64	.35	.09	.81	.77
10	.77	.01	.53	.87	.84	65.79	.62	.64	.35	.06	.80	.77
11	59.72	59.94	60.60	60.77	61.71	65.11	62.29	60.63	60.33	60.05	59.79	59.77
12	.70	60.12	.42	.62	.69	63.28	.05	.60	.30	.04	.78	.77
13	.68	.12	.31	.63	.86	62.72	61.89	.60	.29	.03	.78	.80
14	.67	.06	.37	.59	.98	.30	.74	.60	.26	59.97	.78	.78
15	.67	59.99	.36	64.78	.99	.04	.59	.62	.25	.94	.78	.79
16	59.66	59.94	60.29	65.61	61.97	61.85	61.46	60.62	60.25	59.96	59.79	59.78
17	.65	.88	.22	64.18	.74	.74	.34	.58	.22	.94	.79	.78
18	.63	.87	.28	62.95	.61	62.57	.23	.55	.21	.93	.78	.77
19	.63	.86	.36	63.14	.68	64.08	.16	.57	.19	.93	.78	.76
20	.67	.82	.39	64.52	62.67	63.97	.11	.54	.18	.92	.78	.74
21	59.79	59.83	60.39	63.24	64.83	63.10	61.03	60.53	60.17	59.91	59.77	59.74
22	.77	.89	.33	62.54	65.55	62.53	60.96	.52	.19	.91	.77	.74
23	.71	.85	.48	.12	.98	.18	.90	.46	.18	.89	.77	.73
24	.68	60.04	.44	61.85	66.11	61.91	.87	.43	.17	.88	.77	.73
25	.92	61.04	.52	.67	64.10	.71	.84	.44	.19	.87	.80	.72
26	59.95	61.44	60.80	61.69	63.37	61.69	60.84	60.46	60.15	59.86	59.81	59.71
27	.84	.41	61.18	.55	64.01	.89	61.18	.46	.14	.85	.80	.71
28	.77	.32	.17	.62	.42	62.36	.17	.45	.12	.84	.79	.71
29	.72	.78	.13	62.08	.03	.54	.09	.47	.12	.84	.81	.71
30	.69	62.93	.13	.43	63.52	.06	.09	.46	.12	.86	-	.72
31	-	.25	-	.28	.25	-	.08	-	.14	.86	-	.72
Mean	59.72	60.25	60.73	62.00	62.75	62.96	62.13	60.61	60.26	59.98	59.23	59.76
Max.	69.95	62.93	61.87	65.61	66.11	65.79	66.48	61.03	60.44	60.16	59.86	59.83
Min.	59.61	59.61	60.22	60.59	61.26	61.69	60.84	60.43	60.12	59.84	59.77	59.71

WATER YEAR 1971 : Max. 66.48 m. Min. 59.61 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.60	2.80	175	115	214	537	183	74	28	15	6.20	5.60
2	2.40	2.80	150	131	189	446	936	67	28	15	6.20	5.60
3	2.30	2.70	120	107	171	398	1,298	57	27	15	6.00	5.20
4	2.10	2.30	94	109	180	435	1,373	54	27	14	6.00	5.00
5	2.10	2.10	79	104	144	465	743	50	27	14	5.60	4.80
6	2.20	2.10	65	79	117	426	453	48	27	14	5.60	4.60
7	2.70	2.10	49	64	105	320	337	46	25	13	5.40	4.40
8	8.20	5.60	40	48	98	312	458	45	24	13	5.20	4.40
9	5.60	12	33	47	164	662	372	42	23	13	5.20	4.40
10	4.40	10	34	60	171	1,142	304	42	23	12	5.00	4.40
11	3.40	8.20	39	52	152	933	242	41	22	11	4.80	4.40
12	3.00	13	27	40	150	446	201	39	21	11	4.60	4.40
13	2.80	13	21	41	173	324	178	39	21	11	4.60	5.00
14	2.70	12	24	38	191	244	157	39	19	9.10	4.60	4.60
15	2.70	9.70	24	837	192	200	137	40	19	8.20	4.60	4.80
16	2.60	8.20	21	1,084	189	172	121	40	19	8.80	4.80	4.60
17	2.50	6.60	18	673	157	157	106	38	18	8.20	4.80	4.60
18	2.30	6.40	20	372	139	294	94	35	17	7.90	4.60	4.40
19	2.30	6.20	24	414	148	646	87	37	17	7.90	4.60	4.20
20	2.70	5.40	25	765	314	617	82	35	16	7.60	4.60	3.80
21	4.80	5.60	25	437	852	405	74	34	16	7.30	4.40	3.80
22	4.40	6.80	22	288	1,065	286	68	33	17	7.30	4.40	3.80
23	3.20	6.00	31	212	1,203	223	62	30	16	6.80	4.40	3.60
24	2.80	11	28	172	1,244	180	60	28	16	6.60	4.40	3.60
25	7.60	75	33	147	651	152	57	28	17	6.40	5.00	3.40
26	8.50	119	54	150	468	150	57	30	15	6.20	5.20	3.20
27	5.80	114	89	131	628	178	89	30	15	6.00	5.00	3.20
28	4.40	104	88	141	737	255	88	29	14	5.80	4.80	3.20
29	3.40	162	84	206	633	288	80	30	14	5.80	5.20	3.20
30	2.90	368	84	267	504	203	80	30	14	6.20	–	3.40
31	–	235	–	240	439	–	79	–	15	6.20	–	3.40
Total	109.40	1,339.60	1,620	7,571	11,782	11,496	8,656	1,210	617	299.30	145.80	131.00
Mean	3.53	43.2	54.0	244	380	383	280	40.3	19.9	7.40	503	4.23
Max.	8.50	368	175	1,084	1,244	1,142	1,373	74	28	15	6.20	5.60
Min.	2.10	2.10	18	38	98	150	57	28	14	5.80	4.40	3.20
Runoff – mcm.	9.452	115.741	139.968	654.134	1,017.965	993.254	747.878	104.544	53.309	19.811	12.597	11.318

WATER YEAR 1971 : Max. 1,373 Min. 2.10 Mean 123 Annual Runoff 3,886,021 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.4,71	0.60	66.87	1,528				

YOM RIVER BASIN

Mae Ngao Creek at Ngao Bridge, Lampang (Y. 13)

Location: Lat. 18^{0}–45'–06" N., Long. 99^{0}–58'–53" E., on left bank at downstream side of Ngao Bridge, Amphoe Ngao, Lampang.

Drainage Area: 382 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 266.658 m. (M.S.L.)

Bench Mark: B.M. – H.S.

Location: On left bank about 100 meters upstream from gage site.
Elevation: + 273.180 m. (M.S.L.)

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

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

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957–1958, 1971 to date.
Rated by Float: –
Rated by Current Meter: 1957–1958, 1971 to date.

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

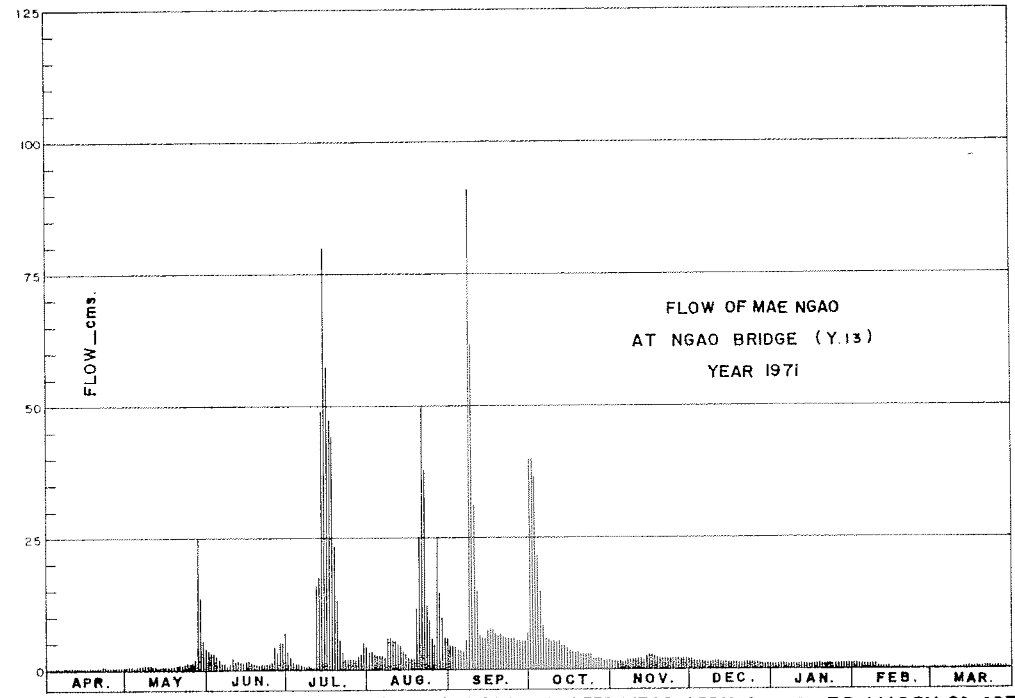
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	266.84	266.91	267.11	267.09	266.96	267.01	267.66	266.88	266.91	266.84	266.83	266.73
2	.84	.91	.09	.05	.96	.01	.66	.88	.88	.84	.83	.73
3	.84	.91	.08	.00	.94	.00	.54	.86	.88	.84	.83	.73
4	.84	.91	.05	.00	.94	266.98	.31	.86	.88	.84	.83	.73
5	.84	.91	.02	266.96	.94	.98	.25	.88	.88	.84	.83	.73
6	266.84	266.93	266.99	266.96	266.94	266.96	267.11	266.88	266.88	266.83	266.82	266.73
7	.85	.94	.96	.94	267.01	.97	.06	.90	.88	.83	.82	.73
8	.85	.94	.91	.92	.06	268.20	.06	.90	.88	.83	.82	.73
9	.85	.94	.98	.91	.06	267.70	.04	.90	.88	.83	.82	.73
10	.84	.94	267.04	.91	.04	.41	.04	.90	.88	.83	.76	.73
11	266.84	266.92	267.01	266.89	267.04	267.20	267.04	266.91	266.86	266.83	266.75	266.73
12	.84	.91	.01	267.32	.01	.07	.04	.91	.86	.83	.75	.76
13	.84	.91	266.98	.34	.01	.06	.01	.92	.86	.83	.75	.76
14	.84	.91	.99	.79	266.96	.06	.01	.94	.85	.83	.74	.76
15	.84	.91	267.01	*268.10	.94	.11	.00	.94	.85	.83	.74	.76
16	266.84	266.91	267.01	*267.85	266.91	267.11	266.91	266.93	266.85	266.83	266.74	266.75
17	.84	.91	266.96	267.73	.91	.11	.96	.93	.85	.83	.74	.75
18	.84	.91	.96	.72	.88	.08	.96	.91	.86	.83	.74	.74
19	.84	.92	.94	* .41	267.19	.08	.96	.91	.85	.84	.74	.74
20	.84	.94	.94	* .19	.45	.08	.94	.91	.85	.84	.74	.74
21	266.85	266.94	266.96	267.01	267.79	267.06	266.94	266.91	266.85	266.84	266.74	266.75
22	.85	.93	.96	266.96	.53	.06	.94	.91	.85	.84	.74	.76
23	.85	.96	.98	.91	.22	.06	.94	.91	.85	.84	.74	.76
24	.85	.96	.98	.91	.15	.06	.94	.91	.85	.84	.73	.76
25	.85	.98	267.00	.91	.06	.06	.91	.91	.85	.84	.73	.76
26	266.85	266.98	267.13	266.91	267.01	267.04	266.91	266.91	266.85	266.84	266.73	266.75
27	.85	267.01	.06	.91	.45	.04	.91	.91	.85	.84	.73	.76
28	.86	.46	.15	.94	.26	.04	.91	.91	.84	.84	.73	.75
29	.86	.24	.15	.96	.14	.04	.88	.91	.84	.84	.73	.75
30	.86	.15	.20	267.03	.06	.04	.88	.91	.84	.83	–	.76
31	–	–	–	.01	.06	–	.88	–	.84	.83	–	.77
Mean	266.84	266.97	267.02	267.15	267.10	267.12	267.05	266.90	266.86	266.83	266.77	266.75
Max.	266.86	267.46	267.20	*268.10	267.79	268.20	267.66	266.94	266.91	266.84	266.83	266.77
Min.	266.84	266.91	266.91	266.89	266.88	266.96	266.88	266.86	266.84	266.83	266.73	266.73

WATER YEAR 1971 : Max. 268.20 m. Min. 266.73 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.31	0.66	3.76	3.19	3.32	4.50	40	1.76	2.22	1.28	1.16	0.24
2	0.31	0.66	3.19	2.45	3.32	4.50	40	1.76	1.76	1.28	1.16	0.24
3	0.31	0.66	3.01	1.52	2.88	4.20	31	1.52	1.76	1.28	1.16	0.24
4	0.31	0.66	2.45	1.52	2.88	3.76	17	1.52	1.76	1.28	1.16	0.24
5	0.31	0.66	1.89	1.14	2.88	3.76	14	1.76	1.76	1.28	1.16	0.24
6	0.31	0.85	1.42	1.14	2.88	3.32	7.60	1.76	1.76	1.16	1.04	0.24
7	0.35	0.95	1.14	0.95	4.50	3.54	6.00	2.00	1.76	1.16	1.04	0.24
8	0.35	0.95	0.66	0.76	6.00	91	6.00	2.00	1.76	1.16	1.04	0.24
9	0.35	0.95	1.33	0.66	6.00	43	5.40	2.00	1.76	1.16	1.04	0.24
10	0.31	0.95	2.26	0.66	5.40	22	5.40	2.00	1.76	1.16	0.48	0.24
11	0.31	0.76	1.71	0.53	5.40	11	5.40	2.22	1.52	1.16	0.40	0.24
12	0.31	0.66	1.71	16	4.50	6.30	5.40	2.22	1.52	1.16	0.40	0.48
13	0.31	0.66	1.33	18	4.50	6.00	4.50	2.44	1.52	1.16	0.40	0.48
14	0.31	0.66	1.42	50	3.32	6.00	4.50	2.88	1.40	1.16	0.32	0.48
15	0.31	0.66	1.71	80	2.88	7.60	4.20	2.88	1.40	1.16	0.32	0.48
16	0.31	0.66	1.71	55	2.22	7.60	3.76	2.66	1.40	1.16	0.32	0.40
17	0.31	0.66	1.14	45	2.22	7.60	3.32	2.66	1.40	1.16	0.32	0.40
18	0.31	0.66	1.14	44	1.76	6.60	3.32	2.22	1.52	1.16	0.32	0.32
19	0.31	0.76	0.95	22	11	6.60	3.32	2.22	1.40	1.28	0.32	0.32
20	0.31	0.95	0.95	11	25	6.60	2.88	2.22	1.40	1.28	0.32	0.32
21	0.35	0.95	1.14	4.50	50	6.00	2.88	2.22	1.40	1.28	0.32	0.40
22	0.35	0.85	1.14	3.32	37	6.00	2.88	2.22	1.40	1.28	0.32	0.48
23	0.35	1.14	1.33	2.22	12	6.00	2.88	2.22	1.40	1.28	0.32	0.48
24	0.35	1.14	1.33	2.22	9.20	6.00	2.89	2.22	1.40	1.28	0.24	0.48
25	0.35	1.33	1.52	2.22	6.00	6.00	2.22	2.22	1.40	1.28	0.24	0.48
26	0.35	1.33	4.53	2.22	4.50	5.40	2.22	2.22	1.40	1.28	0.24	0.48
27	0.35	1.71	2.64	2.22	25	5.40	2.22	2.22	1.40	1.28	0.24	0.49
28	0.39	25	5.29	2.88	14	5.40	2.22	2.22	1.28	1.28	0.24	0.40
29	0.39	10	5.29	3.32	8.80	5.40	1.76	2.22	1.28	1.28	0.24	0.40
30	0.39	5.29	7.20	5.10	6.00	5.40	1.76	2.22	1.28	1.16	–	0.48
31	–	4.14	–	4.50	6.00	–	1.76	–	1.28	1.16	–	0.56
Total	9.94	67.92	66.29	390.24	281.36	312.48	238.68	64.90	47.46	37.88	16.28	11.44
Mean	0.33	2.19	2.21	12.6	9.08	10.4	7.70	2.16	1.53	1.22	0.56	0.37
Max.	0.39	25	7.20	80	50	91	40	2.88	2.22	1.28	1.16	0.56
Min.	0.31	0.66	0.66	0.53	1.76	3.32	1.76	1.52	1.28	1.16	0.24	0.24
Runoff - mcm.	0.859	5.868	5.727	33.717	24.310	26.948	20.622	5.607	4.101	3.273	1.407	0.988

WATER YEAR 1971 : Max. 91 Min. 0.24 Mean 4.23 Annual Runoff 133.477 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8,71	12.00	269.06	229				

YOM RIVER BASIN

Mae Yom River at Don Rabiang, Sukhothai (Y. 14)

Location: Lat. 17°-35'-42" N., Long. 99°-43'-08" E., on left bank about 50 meters from highway No. 101 (Si Satchanalai - Den Chai) at kilometer marker 44, Amphoe Si Satchanalai, Sukhothai.

Drainage Area: 12,131 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 65.10 m. (M.S.L.)

Bench Mark: B.M. - H.S. - No. 1

- Location: Infront of the camp of station Y. 14
- Elevation: + 77.575 m. (M.S.L.)

Gage Reading Frequency: 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1964 to date.

Rating Operation:

- Period of Rating: 1964 to date.
- Rated by Float: -
- Rated by Current Meter: 1964 to date.

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

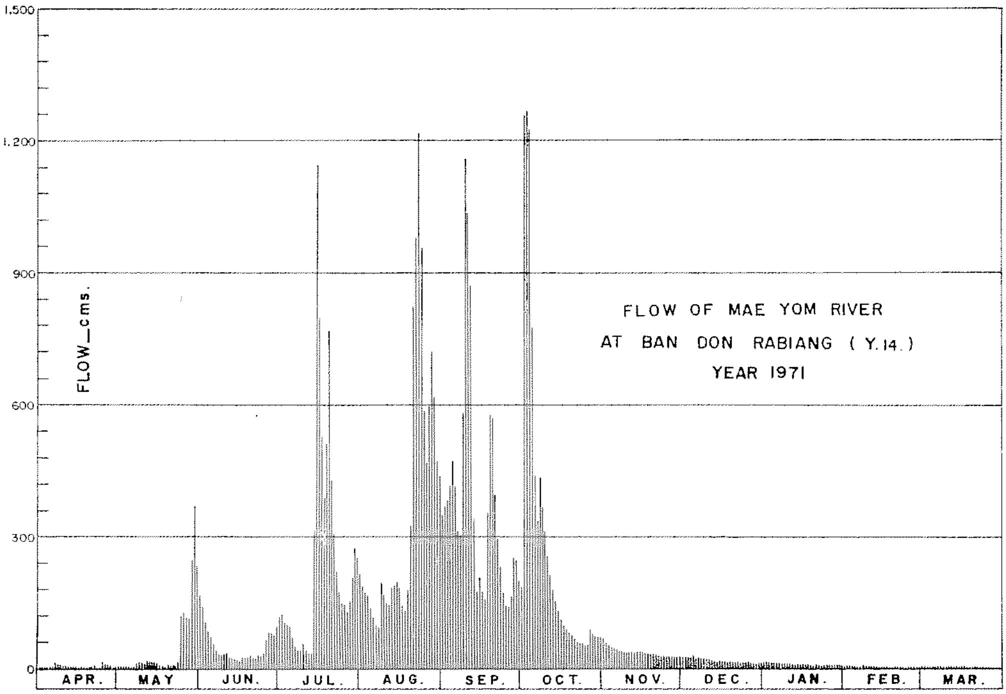
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. The data presented is made by discharge measurements during 1971. Flow diverted for irrigation of about 24,000 hectares at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	65.81	65.83	68.01	67.55	68.36	70.38	68.05	66.97	66.41	66.17	65.96	65.94
2	.80	.84	67.76	.61	.70	69.63	73.33	.86	.39	.19	.96	.93
3	.79	.79	.45	.42	.01	.53	.37	.76	.38	.17	.96	.92
4	.78	.78	.18	.46	67.96	.74	.19	.74	.40	.15	.94	.91
5	.78	.77	67.00	.27	.67	70.02	71.05	.70	.39	.16	.93	.90
6	65.85	65.78	66.80	67.01	67.43	69.60	69.71	66.68	66.34	66.15	65.92	65.89
7	66.15	.77	.62	66.30	.32	.02	.13	.65	.36	.14	.92	.90
8	.05	66.16	.49	.62	.25	.00	.81	.61	.33	.13	.91	.90
9	65.95	.14	.45	.66	68.22	71.12	.26	.59	.33	.11	.91	.90
10	.90	.10	.50	.82	67.94	72.99	68.97	.58	.32	.11	.91	.89
11	65.87	66.09	66.51	66.63	67.81	71.57	68.53	66.57	66.30	66.10	65.90	65.89
12	.85	.19	.33	.53	.81	69.65	.26	.55	.29	.08	.90	.89
13	.83	.18	.34	.54	68.13	.05	.05	.56	.27	.06	.90	.89
14	.83	.11	.32	.57	.18	68.04	67.86	.57	.25	.04	.90	.89
15	.83	.07	.24	71.75	.20	.34	.68	.58	.24	.03	.91	.92
16	65.82	66.03	66.21	72.57	68.09	68.06	67.49	66.57	66.24	66.04	65.90	65.89
17	.81	65.99	.39	70.68	67.78	67.90	.35	.54	.23	.02	.90	.88
18	.80	66.10	.39	69.30	.67	69.16	.23	.52	.21	.02	.89	.88
19	.82	65.97	.39	.94	.91	70.57	.15	.51	.20	.03	.89	.87
20	.84	.94	.38	71.46	69.37	.53	.07	.50	.19	.01	.89	.86
21	65.87	65.99	66.33	69.64	71.98	69.36	66.93	66.48	66.19	66.00	65.88	65.86
22	.88	.99	.33	68.84	72.31	68.78	.87	.45	.20	65.99	.90	.86
23	.84	.97	.44	.36	73.20	.37	.86	.40	.19	.98	.88	.86
24	.87	66.22	.40	68.00	72.94	.05	.87	.42	.19	.98	.80	.86
25	66.15	67.55	.55	67.80	70.64	67.80	.80	.42	.20	.98	.92	.85
26	66.08	67.62	66.51	66.81	69.91	67.70	66.80	66.42	66.18	65.98	65.92	65.85
27	65.94	.51	67.19	.60	70.77	68.03	67.25	.42	.16	.97	.91	.84
28	.89	.40	.14	.89	71.24	.64	.09	.44	.15	.97	.92	.84
29	.85	68.40	.06	68.40	70.72	.61	.06	.42	.15	.97	.93	.85
30	.83	69.43	.27	.78	.02	.21	.05	.41	.16	.97	-	.85
31	-	68.49	-	.64	69.83	-	.04	-	.16	.96	-	.85
Mean	65.88	66.46	66.70	68.09	69.14	69.25	68.36	65.56	66.26	66.05	65.91	65.88
Max.	66.15	69.43	68.01	72.57	73.20	72.99	73.37	66.97	66.41	66.19	65.96	65.94
Min.	65.78	65.77	66.21	66.53	67.25	67.70	66.80	66.40	66.15	65.96	65.80	65.84

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.70	5.10	171	121	216	350	176	70	30	17	8.60	7.90
2	4.50	5.30	142	127	478	406	1,258	61	28	18	8.60	7.55
3	4.30	4.30	111	108	171	389	1,269	53	28	17	8.60	7.20
4	4.10	4.10	86	112	165	425	1,217	51	29	16	7.90	6.85
5	4.10	3.90	72	94	133	475	680	48	28	16	7.55	6.50
6	5.50	4.10	56	73	109	401	420	47	25	16	7.20	6.30
7	16	3.90	42	56	98	310	326	44	27	16	7.20	6.50
8	12	16	34	42	92	307	437	42	25	15	6.85	6.50
9	8.25	16	32	45	197	695	346	40	25	14	6.85	6.50
10	6.50	14	35	58	163	1,161	302	40	24	14	6.85	6.30
11	5.90	14	36	43	147	798	238	39	23	14	6.50	6.30
12	5.50	18	25	37	147	409	203	38	22	13	6.50	6.30
13	5.10	17	25	37	186	314	176	39	21	12	6.50	6.30
14	5.10	14	24	39	192	175	153	39	20	12	6.50	6.30
15	5.10	13	20	842	195	213	134	40	20	11	6.85	7.20
16	4.90	11	18	1,046	181	177	115	39	20	12	6.50	6.30
17	4.70	9.65	27	599	144	158	101	37	19	11	6.50	6.30
18	4.50	10	27	352	133	331	90	36	18	11	6.30	6.10
19	4.90	8.95	27	460	159	577	84	36	18	11	6.30	5.90
20	5.30	7.90	28	771	363	569	78	35	18	10	6.30	5.70
21	8.95	9.65	25	408	896	362	70	34	18	10	6.10	5.70
22	6.10	9.65	25	283	978	274	62	32	18	9.65	6.50	5.70
23	5.30	8.95	31	216	1,220	217	61	29	18	9.30	6.10	5.70
24	5.90	19	29	170	1,147	176	59	30	18	9.30	4.50	5.70
25	16	121	38	146	591	146	56	30	18	9.30	7.20	5.50
26	11	128	65	147	455	145	56	30	17	9.30	7.20	5.50
27	7.90	117	87	126	618	174	92	30	16	8.95	6.85	5.30
28	6.30	106	83	156	722	254	79	31	16	8.95	7.20	5.30
29	5.50	221	77	221	607	248	77	30	16	8.95	7.50	5.50
30	5.10	373	94	274	475	196	76	30	16	8.95	–	5.50
31	–	233	–	254	440	–	75	–	16	8.60	–	5.50
Total	199.00	1,546.45	1,592	7,463	11,818	10,832	8,566	1,180	655	377.25	200.15	191.70
Mean	6.63	49.9	53.1	241	381	361	275	39.3	21.1	12.2	6.90	6.18
Max.	16	373	171	1,046	1,220	1,161	1,269	70	30	18	8.60	7.90
Min.	4.10	3.90	18	37	92	145	56	29	16	8.60	4.50	5.30
Runoff - mcm.	17.194	133.613	137.549	644.803	1,020.64	935.885	740.102	101.952	56.592	32.594	17.293	16.563

WATER YEAR 1971 : Max. 1,269 Min. 3.90 Mean 122 Annual Runoff 3,854.783 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.2,71	18.00	74.35	1,559				

YOM RIVER BASIN

Mae Yom River at Sam Ngam, Phichit (Y. 17)

Location: Lat. 16^{0}-30'-50" N., Long. 100^{0}-12'-40" E., on left bank in front of Amphoe Sam Ngam, Phichit.

Drainage Area: 21,415 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.00 m. (A.D.) which is equal to + 31.490 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. Y. 17

Location: About 6 meters downstream from the gage site.
Elevation: + 37.838 m. (M.S.L.)

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

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

Period of Available Gage Records: 1967 to date.

Rating Operation:

Period of Rating: 1967
Rated by Float: -
Rated by Current Meter: 1967

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

Overbank Flow Conditions: Overbank flow exists almost every year but hardly to be determined. Record are channel flow only.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1967. Upstream State diversions for irrigation of about 24,000 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.51	0.70	2.11	2.10	4.77	5.32	5.91	5.15	1.86	0.99	0.74	0.53
2	.50	.68	.18	.18	.74	.39	.90	.10	.80	.97	.73	.53
3	.50	.67	.26	.25	.63	.46	.89	.06	.77	.96	.73	.53
4	.49	.66	.40	.31	.60	.51	.87	.00	.72	.95	.72	.54
5	.49	.63	.54	.34	.57	.59	.87	4.98	.70	.94	.72	.56
6	0.49	0.61	2.64	2.37	4.55	5.62	5.85	4.96	1.68	0.93	0.71	0.58
7	.49	.59	.74	.39	.53	.66	.83	.96	.65	.93	.70	.59
8	.48	.58	.82	.41	.51	.71	.85	.90	.63	.92	.68	.60
9	.48	.57	.83	.42	.50	.75	.89	.84	.60	.96	.68	.63
10	.48	.55	.82	.41	.49	.81	.90	.84	.58	.96	.68	.67
11	0.49	0.53	2.80	2.38	4.47	5.84	5.91	4.73	1.53	0.95	0.67	0.65
12	.60	.55	.79	.30	.45	.86	.92	.63	.50	.96	.66	.62
13	.62	.58	.78	.26	.39	.87	.93	.40	.44	.98	.65	.60
14	.63	.70	.73	.24	.39	.87	.94	.22	.40	.96	.64	.60
15	.64	.82	.64	.24	.34	.88	.94	.11	.36	.93	.64	.61
16	0.63	0.92	2.56	2.28	4.26	5.89	5.95	3.94	1.42	0.90	0.63	0.62
17	.61	.93	.48	.34	.25	.90	.95	.70	.46	.88	.62	.63
18	.60	.86	.38	.44	.24	.92	.94	.55	.43	.87	.61	.64
19	.59	.81	.27	.57	.24	.93	.91	.18	.38	.87	.60	.65
20	.58	.94	.22	.92	.22	.92	.87	2.95	.34	.86	.59	.65
21	0.56	0.97	2.17	3.14	4.20	5.92	5.83	2.70	1.28	0.85	0.59	0.66
22	.54	.93	.11	.29	.24	.93	.79	.58	.20	.85	.58	.65
23	.52	.89	1.99	.39	.27	.92	.76	.43	.14	.83	.57	.64
24	.51	.84	.96	.47	.31	.91	.74	.34	.13	.81	.56	.64
25	.52	.84	.97	.58	.36	.91	.71	.24	.18	.80	.55	.63
26	0.54	0.86	1.94	3.73	4.44	5.93	5.69	2.20	1.20	0.79	0.55	0.62
27	.57	.97	.90	4.01	.59	.94	.67	.10	.21	.78	.55	.62
28	.60	1.49	.85	.43	.86	.94	.60	.02	.19	.77	.54	.65
29	.65	.67	.94	.52	5.05	.95	.54	1.96	.14	.77	.54	.63
30	.71	.88	2.03	.57	.18	.92	.45	.94	.06	.76	-	.60
31	-	2.04	-	.67	.23	-	.35	-	.00	.75	-	.59
Mean	0.55	0.88	2.36	2.90	4.51	5.80	5.81	3.72	1.42	0.88	0.63	0.58
Max.	0.71	2.04	2.83	2.67	5.23	5.95	5.95	5.15	1.86	0.99	0.74	0.67
Min.	0.48	0.53	1.85	2.10	4.20	5.32	5.35	1.94	1.00	0.75	0.54	0.53

WATER YEAR 1971 : Max. 5.95 m. Min. 0.48 m.

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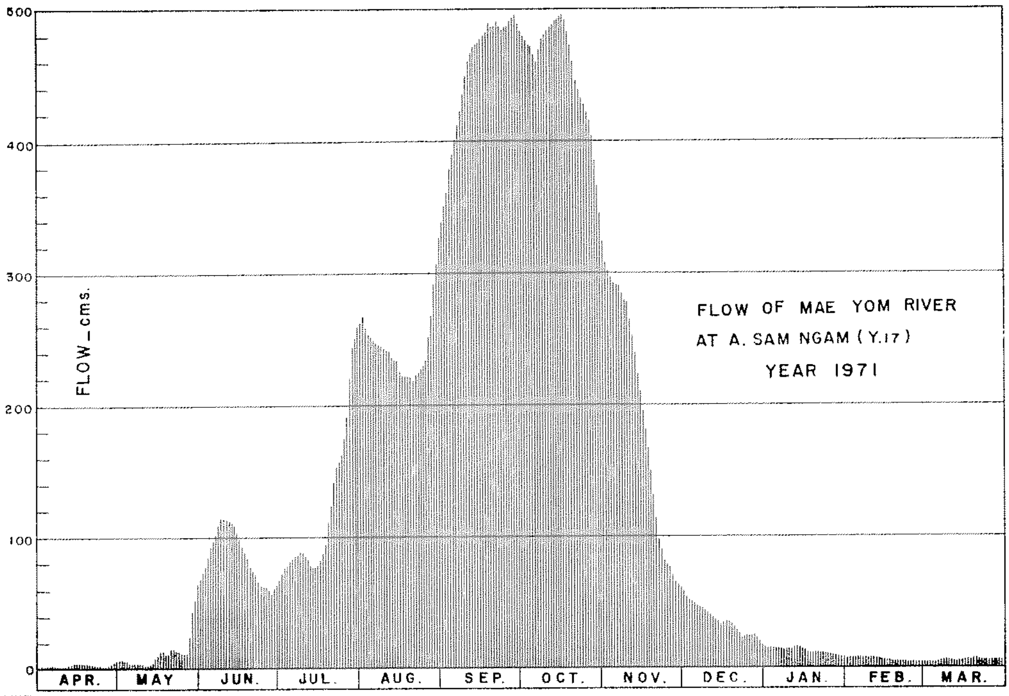

DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.10	7.50	71	71	262	339	483	312	58	17	8.70	3.50
2	2.90	6.98	75	75	267	351	480	306	54	16	8.40	3.50
3	2.90	6.72	79	79	256	365	477	301	53	16	8.40	3.50
4	2.73	6.46	88	82	253	376	471	294	50	15	8.10	3.70
5	2.73	5.68	96	84	251	395	471	292	49	15	8.10	4.10
6	2.73	5.16	103	86	249	402	465	290	48	15	7.80	4.50
7	2.73	4.70	109	87	247	413	459	290	47	15	7.50	4.70
8	2.56	4.50	114	88	245	426	465	283	46	14	6.98	4.90
9	2.56	4.30	115	89	244	436	477	277	44	16	6.98	5.68
10	2.56	3.90	114	88	244	453	480	277	43	16	6.98	6.72
11	2.73	3.50	113	86	242	462	483	266	41	15	6.72	6.20
12	4.90	3.90	112	82	240	468	486	256	39	16	6.46	5.42
13	5.42	3.50	112	79	235	471	486	236	36	17	6.20	4.90
14	5.68	7.50	108	78	235	471	492	220	35	16	5.94	4.90
15	5.94	11	103	78	230	474	492	210	33	15	5.94	5.16
16	5.68	14	97	81	223	477	495	196	35	13	5.68	5.42
17	5.16	15	92	84	222	480	495	178	37	13	5.42	5.68
18	4.90	12	86	90	222	486	492	166	36	13	5.16	5.94
19	4.70	11	80	98	222	489	483	139	34	13	4.90	6.20
20	4.50	15	77	121	220	486	471	123	32	12	4.70	6.20
21	4.10	16	74	136	218	486	459	106	29	12	4.70	6.46
22	3.70	15	71	147	222	489	447	99	25	12	4.50	6.20
23	3.30	13	64	155	224	486	439	89	23	11	4.30	5.94
24	3.10	12	63	160	228	483	434	84	23	11	4.10	5.94
25	3.30	12	63	169	232	483	426	78	25	10	3.90	5.68
26	3.70	12	62	180	239	489	420	76	25	10	3.90	5.42
27	4.30	16	60	202	253	492	415	71	26	10	3.90	5.42
28	4.90	39	57	238	279	492	397	66	25	9.60	3.70	6.20
29	6.20	48	62	246	300	495	383	63	23	9.60	3.70	5.68
30	7.80	59	67	251	316	486	363	62	20	9.30	–	4.90
31	–	67	–	260	324	–	344	–	17	9.00	–	4.70
Total	121.51	462.30	2,587	3,850	7,644	13,601	14,133	5,706	1,111	411.50	171.76	163.36
Mean	4.05	14.9	86.2	124	246	453	456	190	35.8	13.3	5.92	5.27
Max.	7.80	67	115	260	324	495	495	312	58	17	8.70	6.72
Min.	2.56	3.50	57	71	218	339	344	62	17	9.00	3.70	3.50
Runoff - mcm.	10.498	39.943	223.517	332.640	660.442	1,175.126	1,221.091	492.998	95.990	35.554	14.840	14.114

WATER YEAR 1971 : Max. 495 Min. 2.56 Mean 136 Annual Runoff 4,316.754 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.28,71	18.00	5.96	498				

YOM RIVER BASIN

Nam Ngim at Ban Hae, Chiang Rai (Y. 19)

Location: Lat. 19^{0}–18'–10" N., Long. 100^{0}–23'–35" E., on left bank about 200 meters downstream from confluence with Huai Nam Kha and about 300 meters upstream from Ban Hae weir, Amphoe Pong, Chiang Rai.

Drainage Area: 155 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 346.316 m. (M.S.L.)

Bench Mark: B.M. – H.S.

Location: Near automatic gage building.
Elevation: + 350.401 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: 1968 to date.

Rating Operation:

Period of Rating: 1968–1971
Rated by Float: –
Rated by Current Meter: 1968–1971

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 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: No records January – March 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	346.72	346.77	346.84	347.28	347.27	347.40	347.21	346.97	346.90			
2	.74	.76	.84	.18	.23	.33	.43	.97	.90			
3	.74	.75	.84	.13	.21	.29	.27	.97	.90			
4	.76	.83	.82	.13	.18	.29	.21	.96	.90			
5	.78	.80	.82	.12	.21	.28	.18	.96	.90			
6	346.79	346.81	346.82	347.10	347.33	347.23	347.17	346.96	346.90			
7	.78	.81	.82	.09	.35	.21	.15	.95	.89			
8	.76	.76	.83	.05	.51	.36	.14	.96	.89			
9	.77	.74	.83	.03	.47	.33	.13	.95	.89			
10	.75	.72	.83	.02	.50	.30	.12	.96	.88			
11	346.75	346.72	346.83	347.01	347.55	347.27	347.10	346.95	346.88			
12	.75	.71	.83	.13	.50	.23	.08	.95	.87			
13	.75	.71	.82	.12	.46	.21	.08	.95	.88			
14	.75	.78	.82	.17	.47	.19	.06	.93	.89			
15	.77	.79	.82	.36	.42	.18	.06	.93	.89			
16	346.78	346.85	346.83	347.28	347.52	347.16	347.05	346.92	347.89			
17	.77	.83	.96	.24	.46	.14	.04	.92	.87			
18	.76	.80	.97	.31	.45	.13	.04	.92	.90			
19	.77	.78	.89	.46	.50	.16	.03	.93	.88			
20	.78	.77	.87	.44	.89	.21	.01	.93	.85			
21	346.78	346.78	346.94	347.36	347.90	347.24	347.01	346.93	346.87			
22	.78	.81	.97	.29	.78	.21	.01	.93	.87			
23	.77	.85	.96	.24	.64	.17	346.99	.92	.87			
24	.77	.86	.98	.35	.54	.17	.99	.92	.87			
25	.77	.82	347.29	.42	.55	.15	.98	.91	.87			
26	346.78	346.93	347.46	347.37	347.50	347.13	347.02	346.91	346.87			
27	.78	.86	.51	.43	.47	.12	.06	.91	.88			
28	.78	.82	.45	.36	.42	.12	.02	.91	.89			
29	.78	.81	.43	.35	.37	.11	.02	.91	.89			
30	.78	.85	.32	.31	.43	.10	347.00	.91	.89			
31	–	.85	–	.29	.36	–	346.98	–	.89			
Mean	364.77	346.80	346.97	347.24	347.46	347.21	347.08	346.94	346.88			
Max.	346.79	346.93	347.51	347.46	347.90	347.40	347.43	346.97	346.90			
Min.	346.72	346.71	346.82	347.01	347.18	347.10	346.98	346.91	346.85			

WATER YEAR 1971 : Max. 347.90 m. Min. 346.71 m.

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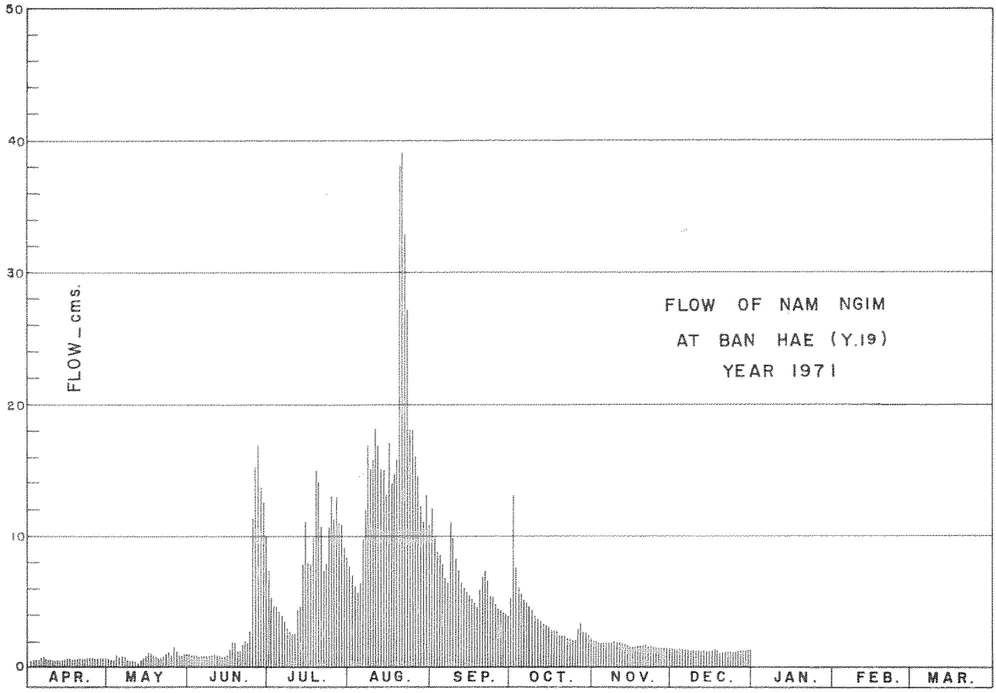


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.38	0.58	0.94	8.42	8.13	12	6.39	2.00	1.30			
2	0.46	0.54	0.94	5.66	6.97	10	13	2.00	1.30			
3	0.46	0.50	0.94	4.56	6.39	8.71	8.13	2.00	1.30			
4	0.54	0.88	0.82	4.56	5.66	8.71	6.39	1.90	1.30			
5	0.62	0.70	0.82	4.34	6.39	8.42	5.66	1.90	1.30			
6	0.66	0.76	0.82	3.90	10	6.97	5.44	1.90	1.30			
7	0.62	0.76	0.82	3.74	11	6.39	5.00	1.80	1.24			
8	0.54	0.54	0.88	3.10	17	11	4.78	1.90	1.24			
9	0.58	0.46	0.88	2.78	15	10	4.56	1.80	1.24			
10	0.50	0.38	0.88	2.62	16	9.00	4.34	1.90	1.18			
11	0.50	0.38	0.88	2.46	18	8.13	3.90	1.80	1.18			
12	0.50	0.34	0.88	4.56	16	6.97	3.58	1.80	1.12			
13	0.50	0.34	0.82	4.34	15	6.39	3.58	1.80	1.18			
14	0.50	0.62	0.82	5.44	15	5.88	3.26	1.60	1.24			
15	0.58	0.66	0.82	11	13	5.66	3.26	1.60	1.24			
16	0.62	1.00	0.88	8.42	17	5.22	3.10	1.50	1.24			
17	0.58	0.88	1.90	7.26	15	4.78	2.98	1.50	1.24			
18	0.54	0.70	2.00	9.34	14	4.56	2.94	1.50	1.30			
19	0.58	0.62	1.24	15	16	5.22	2.78	1.60	1.18			
20	0.62	0.58	1.12	14	38	6.39	2.46	1.60	1.00			
21	0.62	0.62	1.70	11	39	7.26	2.46	1.60	1.12			
22	0.62	0.76	2.00	8.71	31	6.39	2.46	1.60	1.12			
23	0.58	1.00	1.90	7.26	23	5.44	2.20	1.50	1.12			
24	0.58	1.06	2.10	11	18	5.44	2.20	1.50	1.12			
25	0.58	0.82	8.70	13	18	5.00	2.10	1.40	1.12			
26	0.62	1.60	15	11	16	4.56	2.62	1.40	1.12			
27	0.62	1.06	17	13	15	4.34	3.26	1.40	1.18			
28	0.62	0.82	14	11	13	4.34	2.62	1.40	1.24			
29	0.62	0.76	13	11	11	4.12	2.62	1.40	1.24			
30	0.62	1.00	9.68	9.34	13	3.90	2.30	1.40	1.24			
31	–	1.00	–	8.71	11	–	2.10	–	1.24			
Total	16.96	22.72	105.19	240.52	487.54	201.19	122.43	50.00	37.48			
Mean	0.56	0.73	3.51	7.76	15.7	6.71	3.95	1.67	1.21			
Max.	0.66	1.60	17	15	39	12	13	2.00	1.30			
Min.	0.38	0.34	0.82	2.46	5.66	3.90	2.10	1.40	1.00			
Runoff – mcm.	1.465	1.963	9.088	20.781	42.123	17.383	10.578	4.320	3.238			

WATER YEAR 1971 : Max. 39 Min. – Mean – Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.20,71	18.00	348.05	52				

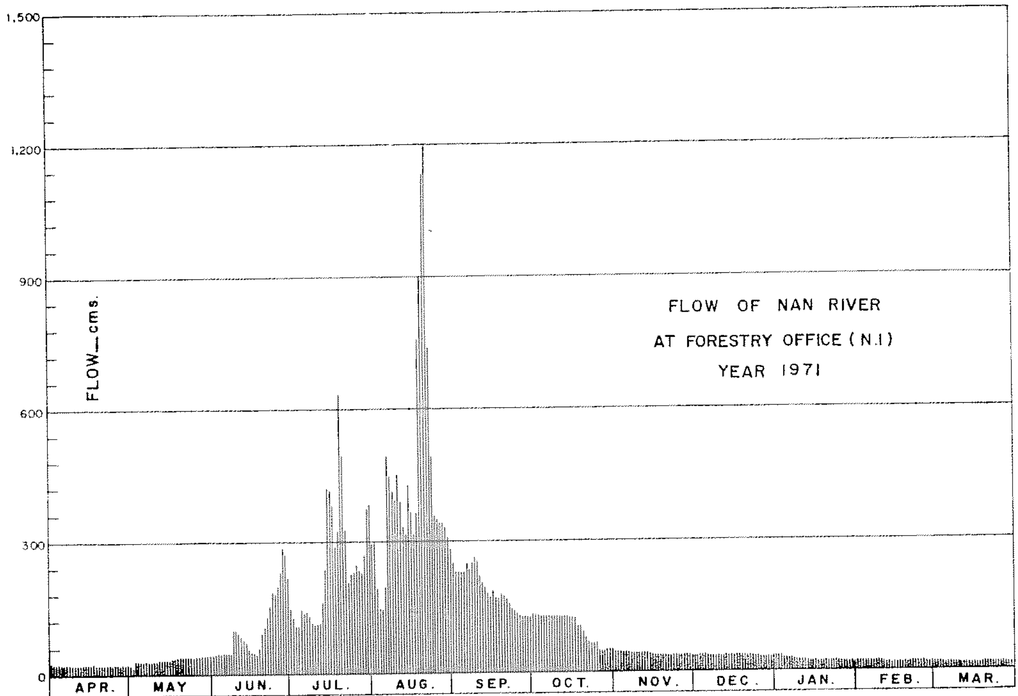
Nan River at Forestry Office, Nan (N 1)

Location:	Lat. 18°-46'-23" N., Long. 100°-46'-51" E., on right bank infront of Forestry Office, Amphoe Muang, Nan.
Drainage Area:	4,609 sq.km.
Type of Gage:	Water stage recorder.
Zero Gage at Bottom at:	+ 192.18 m. (M.S.L.)
Bench Mark:	B.M. - R.I.D.
Location:	Near the gage site.
Elevation:	BM_1 + 199.362 m. (M.S.L.), BM_2 + 198.922 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:	1922-1956, 1962 to date.
Rating Operation:	
Period of Rating:	1954-1956.
Rated by Float:	-
Rated by Current Meter:	1954-1956.
Stability of Channel Regimes:	Rather unstable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage discharge relationship used is defined by discharge measurements made during 1954-1956. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.
Remarks:	Flow on period May 1-2, July 1-6, August 3-31 obtained by stage correlation from station N13 about 43 kilometers downstream.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	192.96	192.81	193.23	194.10	195.14	194.82	194.12	193.28	193.18	193.10	192.90	192.82
2	.94	.80	.24	.03	.16	.77	.11	.27	.18	.10	.90	.82
3	.94	193.03	.24	193.89	194.42	.79	.10	.26	.17	.09	.90	.81
4	.94	.03	.23	.94	.23	.76	.10	.26	.17	.02	.90	.80
5	.94	.03	.23	194.22	.21	.78	.10	.25	.16	.02	.90	.80
6	192.93	193.03	193.26	194.12	194.66	194.89	194.10	193.25	193.16	193.01	192.90	192.80
7	.93	.03	.25	194.17	196.11	.82	.10	.24	.14	.01	.89	.80
8	.91	.03	.23	.07	195.85	.88	.09	.23	.14	.00	.89	.80
9	.90	.03	.83	193.94	.72	.96	.08	.22	.14	.00	.89	.80
10	.89	.03	.81	.95	.66	.89	.08	.22	.13	192.99	.84	.80
11	192.89	193.04	193.73	193.95	195.94	194.72	194.08	193.21	193.13	192.98	192.81	192.80
12	.89	.06	.65	194.00	.59	.62	.08	.21	.13	.97	.81	.80
13	.88	.06	.27	.34	.37	.54	.08	.21	.13	.97	.81	.80
14	.88	.06	.25	.85	.25	.46	.08	.21	.13	.96	.81	.78
15	.88	.07	.29	195.76	.81	.40	.03	.19	.13	.96	.81	.78
16	192.88	193.08	193.28	195.75	195.44	194.50	194.03	193.18	193.13	192.95	192.80	192.78
17	.88	.10	.26	.42	.22	.38	.03	.18	.13	.94	.80	.78
18	.88	.11	.25	.09	.58	.38	193.88	.18	.13	.94	.80	.77
19	.88	.12	.53	.32	197.06	.44	.88	.18	.13	.94	.80	.77
20	.88	.13	.83	196.64	.45	.42	.78	.18	.13	.94	.80	.77
21	192.88	193.15	193.92	195.64	197.92	194.37	193.64	193.18	193.12	192.94	192.84	192.77
22	.88	.15	194.07	.12	198.04	.29	.50	.18	.12	.94	.88	.77
23	.87	.15	.32	194.64	196.75	.22	.50	.18	.12	.94	.88	.76
24	.87	.15	.48	.75	195.84	.18	.50	.18	.10	.94	.85	.76
25	.87	.16	.46	.77	.48	.12	.50	.18	.10	.93	.86	.76
26	192.87	193.18	194.67	194.86	195.45	194.09	193.28	193.18	193.10	192.92	192.24	192.76
27	.87	.18	.86	.80	.40	.08	193.28	.18	.10	.92	.83	.76
28	.86	.18	195.09	.76	.40	.08	.29	.18	.10	.92	.83	.76
29	.86	.19	194.99	.98	.35	.08	.32	.18	.10	.92	.83	.76
30	.86	.20	.57	195.58	.22	.08	.32	.18	.10	.92	-	.76
31	-	.20	-	.60	.09	-	.32	-	.10	.91	-	.76
Mean	192.89	193.08	193.78	194.74	195.67	194.49	193.82	193.21	193.12	192.97	192.84	192.78
Max.	192.96	193.20	195.09	196.64	198.04	194.96	194.12	193.28	193.18	193.10	192.90	192.82
Min.	192.86	192.80	193.23	193.89	194.21	194.08	193.28	193.18	193.10	192.91	192.80	192.76

WATER YEAR 1971 : Max. 198.04 m. Min. 192.76 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	18	45	131	293	238	133	49	41	35	23	19
2	24	17	46	123	297	230	132	49	41	35	23	19
3	24	30	46	106	176	233	131	48	41	34	23	18
4	24	30	45	112	147	229	131	48	41	30	23	17
5	24	30	45	146	144	232	131	47	40	30	23	17
6	24	30	48	133	212	250	131	47	40	29	23	17
7	24	30	47	139	494	238	131	46	38	29	22	17
8	23	30	45	127	435	249	129	45	38	28	22	17
9	23	30	100	112	408	262	128	45	38	28	22	17
10	22	30	98	113	393	250	128	45	37	27	20	17
11	22	31	90	113	452	222	128	44	37	27	18	17
12	22	32	82	119	379	206	128	44	37	26	18	17
13	22	32	49	163	334	193	128	44	37	26	18	17
14	22	32	47	243	313	181	128	44	37	25	18	17
15	22	33	50	416	426	172	123	42	37	25	18	17
16	22	34	49	413	347	187	123	41	37	25	17	17
17	22	35	48	344	308	169	123	41	37	24	17	17
18	22	36	47	284	378	169	106	41	37	24	17	16
19	22	37	70	326	365	178	106	41	37	24	17	16
20	22	37	100	633	905	175	95	41	37	24	17	16
21	22	39	110	390	1,134	167	81	41	37	24	20	16
22	22	39	127	290	1,197	156	67	41	37	24	22	16
23	21	39	160	209	729	146	67	41	37	24	22	16
24	21	39	184	227	432	141	67	41	35	24	21	16
25	21	40	181	230	356	133	67	41	35	24	21	16
26	21	41	214	245	351	129	49	41	35	23	20	16
27	21	41	245	235	341	128	49	41	35	23	19	16
28	21	41	284	229	341	128	50	41	35	23	19	16
29	21	42	267	266	330	128	53	41	35	23	19	16
30	21	43	198	378	308	128	53	41	35	23	-	16
31	-	43	-	382	286	-	53	-	35	23	-	16
Total	669	1,061	3,167	7,377	13.411	5,647	3,149	1,302	1,156	813	582	518
Mean	22.3	34.2	105	238	433	188	101	43.4	37.3	35.3	20.1	16.7
Max.	25	43	284	633	1,197	262	133	49	41	35	23	19
Min.	21	17	45	106	144	128	49	41	35	23	17	16
Runoff - mcm.	57.812	91.670	273.629	273.629	1,158.710	487.901	272.074	112.493	99.878	70.243	50.285	44.755

WATER YEAR 1971 : Max. 1,197 Min. 16 Mean 106 Annual Runoff 3,356.813 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.22	-	198.35	1,381				

NAN RIVER BASIN

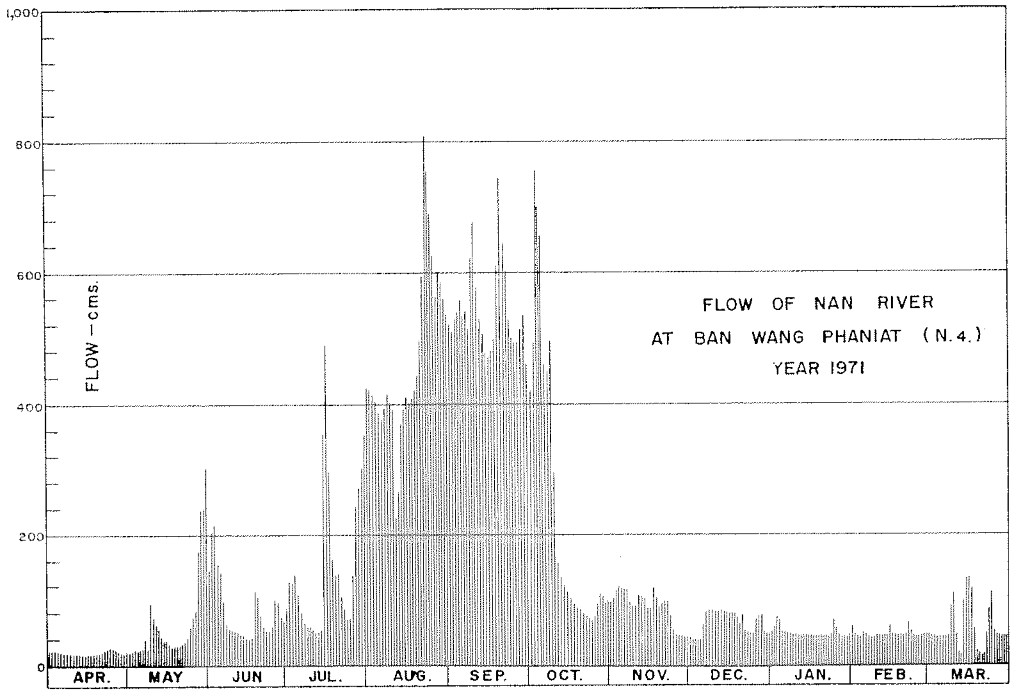
Nan River at Ban Wang Phaniat, Uttaradit (N. 4)

Location:	Lat. 17°-16'-20" N., Long 100°-04'-52" E., On left bank about 2.5 kilometers downstream from Amphoe Phichai Office, Ban Wang Phaniat, Amphoe Phichai, Uttaradit.
Drainage Area:	19,384 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 44.00 m (M.S.L.)
Bench Mark:	B.M.-H.S.
Location:	Near the gage site.
Elevation:	+ 53.327 m (M.S.L.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1946 to date.
Rating Operation:	
Period of Rating:	1965 to date.
Rated by Float:	-
Rated by Current Meter:	1965 to date
Stability of Channel Regimes:	Fairly stable, no shifting adjustment but periodic curves are used for flow computation.
Overbang Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.32	45.28	46.58	46.04	48.24	48.78	48.09	46.03	45.42	45.54	45.65	45.48
2	.31	.29	.98	.32	.17	.71	.49	.10	.40	.62	.48	.47
3	.32	.32	47.05	.31	.19	.84	.82	.23	.41	.81	.45	.45
4	.30	.36	46.69	.41	.06	.88	49.70	.24	.40	.74	.44	.43
5	.29	.32	.52	.15	.02	.97	.57	.22	.37	.53	.48	.45
6	45.27	45.32	36.39	45.92	47.98	48.85	48.84	46.22	45.71	45.51	45.51	45.44
7	.26	.37	45.86	.78	48.07	.89	.44	.21	.88	.50	.46	.44
8	.26	.57	.63	.71	.19	.74	.38	.03	.89	.50	.44	.44
9	.25	.30	.60	.65	.12	49.43	.64	45.97	.89	.49	.44	.90
10	.25	46.16	.60	.64	.06	.55	47.55	.96	.89	.49	.48	46.15
11	45.23	45.96	45.56	45.61	47.03	49.09	46.66	46.10	45.88	45.48	45.48	45.43
12	.23	.82	.55	.54	.12	48.88	.50	.12	.90	.47	.47	.14
13	.21	.67	.51	.55	.95	.73	.37	.10	.89	.47	.47	.05
14	.23	.58	.49	.58	48.04	.63	.29	.08	.87	.47	.49	46.08
15	.25	.53	.45	48.34	.17	.52	.20	45.93	.87	.47	.65	.33
16	45.27	45.54	45.41	48.61	48.12	48.50	46.13	45.93	45.87	45.46	45.47	45.35
17	.25	.44	.40	47.41	.13	.57	.07	46.24	.86	.46	.47	.16
18	.24	.41	.47	46.64	.23	.70	45.98	.11	.86	.46	.47	45.44
19	.23	.41	46.18	.39	.32	49.22	.95	45.97	.86	.46	.48	.15
20	.23	.41	.05	.46	.50	.85	.92	.97	.67	.46	.47	.07
21	45.30	45.45	45.76	46.26	48.82	49.58	45.87	46.05	45.82	45.46	45.48	45.02
22	.35	.47	.63	.01	49.80	.23	.84	.05	.55	.45	.71	.06
23	.36	.53	.56	45.85	50.14	48.88	.81	.01	.54	.45	.56	.82
24	.38	.65	.57	.74	49.63	.71	.78	45.63	.53	.56	.47	46.17
25	.39	.86	.59	.68	.33	.63	.76	.50	.53	.74	.44	45.63
26	45.34	46.01	45.72	46.15	49.08	48.61	45.87	45.47	45.77	45.54	45.45	45.48
27	.30	.12	46.06	47.14	.01	.68	46.10	.47	.82	.46	.47	.47
28	.26	.93	45.87	.34	.19	.77	.15	.46	.83	.45	.48	.46
29	.25	47.20	.77	.48	.09	.86	.12	.44	.55	.45	.51	.46
30	.32	.20	.72	.74	48.94	.30	45.99	.43	.51	.45	-	.45
31	-	.54	-	48.25	.85	-	46.05	-	.51	.50	-	.45
Mean	45.28	45.77	45.87	46.60	48.31	48.89	46.91	45.93	45.70	45.51	45.52	45.39
Max.	45.39	47.54	47.05	48.61	50.14	49.85	49.90	46.24	45.90	45.81	45.71	36.35
Min.	45.21	45.28	45.40	45.54	47.03	48.30	45.76	45.43	45.37	45.45	45.44	45.02

WATER YEAR 1971 : Max. 50.14 m. Min. 45.02 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23	21	144	97	422	519	395	96	41	50	59	45
2	23	21	203	128	410	507	467	104	39	57	45	45
3	23	23	214	127	413	531	527	118	40	74	43	43
4	22	26	159	139	390	538	752	119	39	68	43	41
5	21	23	153	109	383	556	680	117	37	49	45	43
6	20	23	137	85	376	532	531	117	65	48	48	42
7	20	26	79	71	392	540	458	116	81	47	44	42
8	20	40	58	65	413	512	447	96	82	47	42	42
9	19	22	55	59	401	650	494	90	82	46	42	83
10	19	94	55	59	390	675	304	89	82	46	45	109
11	18	73	52	56	223	580	171	104	81	45	45	41
12	18	61	51	50	237	538	150	106	83	45	45	20
13	17	48	48	51	370	510	134	104	82	45	45	15
14	18	41	46	53	386	492	125	102	80	45	46	102
15	19	37	43	440	410	473	115	86	80	45	59	130
16	20	38	40	489	401	469	107	86	80	44	45	132
17	19	31	39	282	402	482	101	119	79	44	45	111
18	18	29	45	168	420	505	91	105	79	44	45	42
19	18	29	113	137	437	606	88	90	74	44	45	21
20	18	29	98	145	469	741	85	90	61	44	45	16
21	22	31	69	122	527	662	80	98	75	44	45	14
22	25	33	58	94	730	608	77	98	51	43	65	16
23	26	37	52	78	805	538	74	94	50	43	52	75
24	27	46	53	68	693	507	71	58	49	52	45	112
25	27	64	54	62	629	492	69	47	49	68	42	58
26	24	78	66	109	578	469	80	45	70	50	43	45
27	22	89	100	240	564	501	104	45	75	44	45	45
28	20	195	80	270	600	518	109	44	76	43	45	44
29	19	240	70	293	580	534	106	42	51	43	48	44
30	23	240	66	335	550	433	92	41	48	43	–	43
31	–	302	–	424	532	–	98	–	48	47	–	43
Total	628	2,090	2,500	4,905	14,533	16,258	7,182	2,666	2,009	1,497	1,351	1,704
Mean	20.9	67.4	83.3	158	469	542	232	88.9	64.8	48.3	46.6	55.0
Max.	27	302	214	489	805	741	752	119	83	74	65	132
Min.	17	21	39	50	223	433	69	41	37	43	42	14
Runoff - MCM.	54.259	180.576	216.000	423.792	1,255.651	1,404.691	620.525	230.342	173.578	129.341	116.726	147.226

WATER YEAR 1971 : Max. 805 Min. 14 Mean 157 Annual Runoff 4,952.707 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.23	06.00	50.25	829				

NAN RIVER BASIN

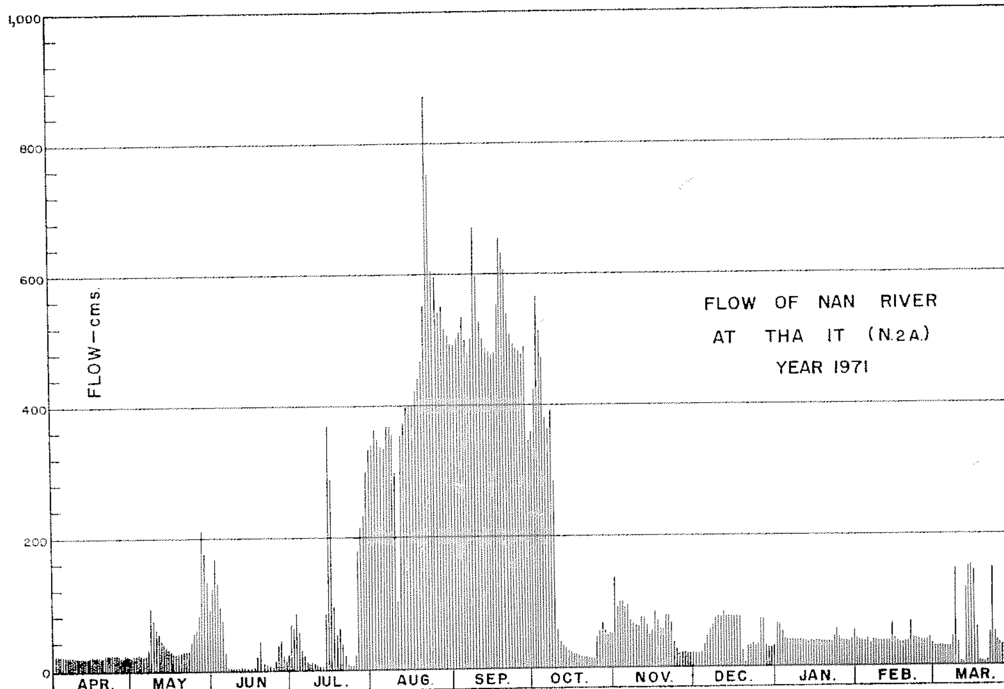
Nan River at Tha It, Uttaradit (N. 2A)

Location:	Lat. 17°-37'-58" N., Long. 100°-06'-07" E., on right bank downstream of Muang Uttaradit Kindergarten, Amphoe Muang, Uttaradit.
Drainage Area:	16,863 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 53.00 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Infront of Uttaradit Kindergarten, north of railway station.
Elevation:	+ 62.154 m. (M.S.L.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1962 to date.
Rating Operation:	
Period of Rating:	1963, 1965 to date.
Rated by Float:	-
Rated by Current Meter:	1963, 1965 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 relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation. No adjustment made for virgin flow.
Remarks:	Gage records for period on September 13 - November 30, 1971 being corrected from N23 station which is about 22 kilometers upstream.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.31	53.28	54.76	54.22	55.94	56.61	56.11	54.75	53.65	54.19	53.92	53.79
2	.30	.35	55.00	.16	56.03	.65	.41	.40	.65	.19	.90	.79
3	.30	.36	54.69	.36	55.97	.69	.93	.48	.65	.12	.90	.78
4	.30	.38	.41	.12	.92	.71	.62	.48	.79	53.92	.90	.78
5	.29	.32	.27	53.80	.89	.80	.25	.40	.97	.92	.93	.78
6	53.29	53.30	53.68	53.63	55.93	56.65	56.09	54.44	54.06	53.92	53.84	53.78
7	.27	.39	.27	.43	56.06	.59	.04	.25	.15	.92	.91	.79
8	.27	54.45	.23	.42	.05	.68	.16	.19	.23	.92	.89	54.17
9	.26	.37	.24	.42	55.99	57.34	55.65	.18	.30	.91	.89	.83
10	.25	.08	.23	.42	.53	.02	54.10	.21	.29	.92	.87	.80
11	53.25	53.97	53.24	53.33	54.49	56.79	53.94	54.29	54.29	53.89	53.89	53.37
12	.25	.77	.25	.31	56.00	.69	.86	.28	.34	.89	.89	.27
13	.24	.68	.23	.24	.07	.62	.80	.22	.29	.89	.90	54.62
14	.26	.64	.19	54.70	.21	.58	.75	.01	.28	.90	54.18	.85
15	.29	.54	.15	56.07	.22	.57	.70	.11	.28	.89	53.91	.86
16	53.30	53.48	53.20	55.04	56.18	56.56	53.67	54.35	54.27	53.90	53.88	54.85
17	.29	.42	.27	54.35	.28	.58	.64	.27	.28	.90	.88	53.79
18	.29	.43	.73	.07	.33	.87	.62	.12	.27	.89	.88	.34
19	.25	.42	.99	.16	.45	57.30	.60	.11	53.91	.89	.89	.28
20	.25	.43	.59	53.93	.62	.19	.57	.31	54.26	.89	.90	.27
21	53.38	53.49	53.42	53.67	57.02	57.08	53.55	54.32	53.82	53.89	54.20	53.34
22	.38	.50	.38	.46	58.06	56.79	.54	.22	.82	.89	53.93	54.07
23	.39	.50	.33	.36	57.45	.67	.53	53.92	.87	.97	.93	.83
24	.40	.85	.34	.32	.11	.62	.54	.77	.82	54.11	.92	53.97
25	.39	.96	.55	.69	.07	.58	54.00	.65	.88	53.89	.90	.81
26	53.35	54.03	53.89	54.98	56.69	56.57	54.09	53.66	54.25	53.89	53.90	53.81
27	.28	.28	.98	55.28	.83	.56	.22	.68	.26	.89	.90	.80
28	.27	55.25	.71	.35	.87	.62	.10	.67	53.82	.90	.96	.80
29	.36	.05	.51	.52	.72	.05	.03	.65	.78	.89	.89	.80
30	.28	54.71	.71	.79	.70	55.96	.07	.65	.78	.97	-	.79
31	-	.40	-	.90	.63	-	.05	-	.80	54.10	-	.79
Mean	53.30	53.80	53.65	54.21	56.30	56.97	54.52	54.13	54.00	53.94	53.92	53.95
Max.	53.40	55.28	55.00	56.07	58.06	57.34	56.93	54.75	54.34	54.19	54.20	54.86
Min.	53.24	53.28	53.15	53.24	54.49	55.96	53.53	53.65	53.65	53.89	53.87	53.79

WATER YEAR 1971 : Max. 58.06 m. Min. 53.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20	19	136	68	343	488	377	135	21	65	40	29
2	20	22	170	62	362	498	444	90	21	65	38	29
3	20	22	127	85	350	508	565	100	21	58	38	29
4	20	23	91	58	339	512	491	100	29	40	38	29
5	20	21	74	30	333	534	409	90	44	40	40	29
6	20	20	23	20	341	498	375	95	52	40	33	29
7	19	24	3.40	11	369	484	364	72	61	40	39	29
8	19	96	2.60	8.80	366	505	390	65	70	40	37	63
9	18	90	2.80	8.80	354	669	285	64	78	39	37	146
10	18	66	2.60	8.80	263	587	56	67	77	40	36	30
11	18	58	2.80	5.20	101	532	41	77	77	39	37	6.80
12	18	44	3.00	4.40	356	508	35	76	83	37	37	3.40
13	18	39	2.60	2.80	371	491	30	68	77	37	38	117
14	18	36	1.90	128	400	482	27	47	77	38	64	149
15	20	31	1.50	371	402	479	24	57	77	37	39	150
16	20	28	2.00	176	394	477	22	84	76	38	36	145
17	20	25	3.40	84	416	482	20	74	77	38	36	29
18	20	25	26	53	427	551	19	58	76	37	36	5.60
19	18	25	45	63	453	658	18	57	39	37	37	3.60
20	18	25	17	40	491	629	16	79	73	37	38	3.40
21	23	28	8.80	22	587	601	15	80	31	37	66	5.60
22	23	29	7.20	10	870	532	14	68	31	37	40	53
23	24	29	5.20	6.40	698	503	14	40	36	44	40	146
24	24	49	5.60	4.80	609	491	14	28	31	57	40	44
25	24	57	15	23	599	482	46	21	36	37	38	31
26	22	62	37	167	532	479	55	22	72	37	38	31
27	19	82	44	213	541	477	68	23	73	37	38	30
28	19	213	25	231	551	491	56	22	32	38	43	30
29	22	178	13	266	515	366	49	21	29	38	37	30
30	19	129	25	312	510	348	53	21	29	44	–	29
31	–	92	–	335	493	–	51	–	30	56	–	29
Total	601	1,687	923.40	2,877	13,736	15,342	4,443	1,901	1,636	1,302	1,154	1,513.40
Mean	20.0	54.4	30.8	92.8	443	511	143	61.3	52.8	42.0	39.8	48.8
Max.	24	213	170	371	870	669	565	135	83	65	66	150
Min.	18	19	1.50	280	101	348	14	21	21	37	36	29
Runoff – mcm.	60.566	145.757	79.747	248.573	1,186.790	1,325.549	383.875	164.246	141.350	112.493	99.706	130.723

WATER YEAR 1971 : Max. 870 Min. 1.50 Mean 129 Annual Runoff4,070.805 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	10.00	58.30	915				

NAN RIVER BASIN

Nan River at Amphoe Muang, Phitsanulok (N. 5A)

Location: Lat. 16°-49'-15" N., Long 100°-15'-49" E., On left bank near Post Office, and about 1 kilometer upstream from gaging station N.5, Amphoe Muang, Phitsanulok.

Drainage Area: 25,286 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 34.570 m (M.S.L.)

Bench Mark: B.M.-H.S.
- Location: Near automatic gage building.
- Elevation: + 45.227 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: 1963 to date.

Rating Operation:
- Period of Rating: 1966 to date.
- Rated by Float: -
- Rated by Current Meter: 1966 to date.

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

Overbank Flow Conditions: No overbank flow.

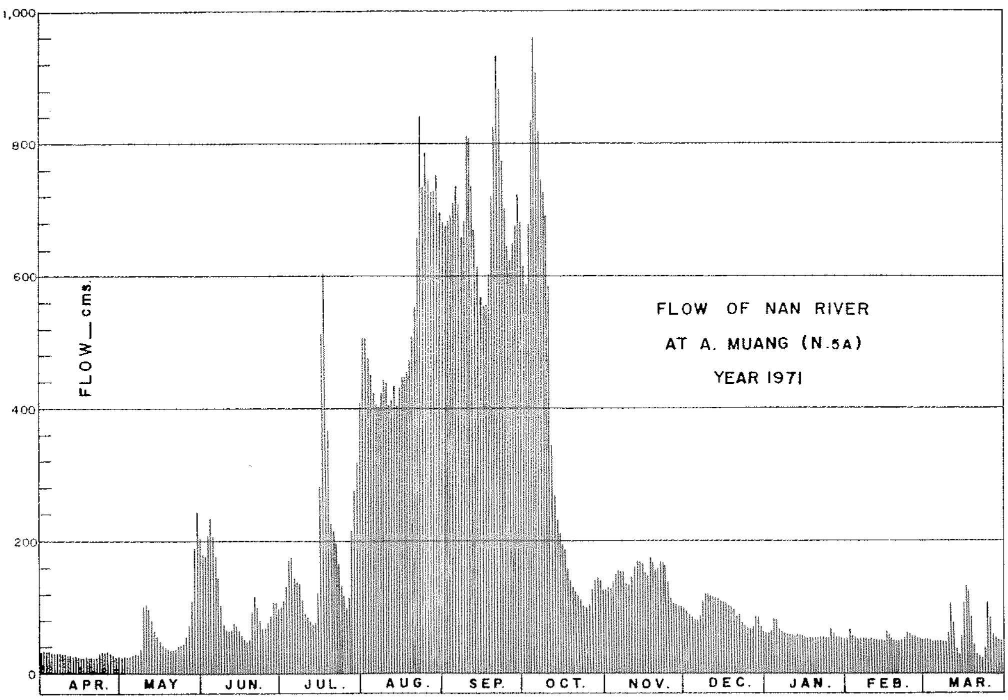
General Description: Records fair. The data presented is made by discharge measurements during 1971. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: Gage height for periods. May 26-29, Oct. 1-31 being corrected fram N.5 station which is 2 kilometers downstream.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.98	34.79	36.85	36.01	39.64	40.84	*40.48	36.29	35.95	35.31	35.17	35.16
2	.98	.82	.82	.17	.65	.81	* .11	.32	.90	.30	.36	.13
3	.96	.80	37.22	.64	.47	.86	* .55	.31	.82	.39	.29	.09
4	.96	.81	.38	.77	.25	.95	*41.65	.47	.78	.60	.17	.09
5	.95	.87	.11	.80	.03	41.09	*42.46	.55	.76	.62	.15	.08
6	34.94	34.90	36.84	36.49	38.89	41.19	*42.26	36.60	35.70	35.42	35.14	35.08
7	.93	.88	.56	.40	.86	40.95	*41.73	.59	.83	.35	.15	.07
8	.92	.93	.03	.34	39.04	.69	* .23	.56	36.12	.30	.14	.07
9	.92	35.17	35.65	.05	.16	.86	* .10	.38	.17	.28	.11	.07
10	.90	36.00	.48	35.84	.11	41.63	*40.78	.34	.15	.26	.13	.36
11	34.84	36.03	35.48	35.78	38.87	41.59	*39.40	36.53	36.12	35.25	35.12	35.96
12	.83	35.82	.53	.69	.92	.08	*38.28	.65	.09	.24	.11	.47
13	.83	.64	.65	.62	39.11	40.65	*37.75	.76	.07	.24	.11	34.88
14	.83	.43	.54	.65	38.83	.33	* .38	.73	.05	.22	.11	.63
15	.82	.30	.45	36.59	39.09	.11	* .18	.71	.00	.21	.12	35.34
16	34.83	35.22	35.35	39.71	39.19	39.98	*37.00	36.57	35.98	35.21	35.32	36.18
17	.82	.13	.26	40.32	.20	40.01	*36.91	.52	.95	.20	.26	.31
18	.82	.07	.20	39.39	.27	.19	* .56	.80	.93	.20	.14	.19
19	.80	.05	.31	38.22	.44	.94	* .46	.73	.91	.19	.11	35.51
20	.76	.00	.95	37.28	.70	41.74	* .30	.60	.86	.19	.11	34.92
21	34.74	35.01	36.15	37.18	40.04	42.31	*36.22	36.65	35.67	35.19	35.11	34.66
22	.95	.05	35.85	36.99	.61	.11	* .18	.72	.73	.18	.13	.56
23	.92	.11	.63	.66	41.80	41.66	* .10	.72	.57	.18	.30	.52
24	.98	.12	.52	.34	.16	.04	* .01	.66	.46	.17	.32	35.05
25	.97	.21	.56	.11	.48	40.58	*35.96	.38	.42	.19	.22	.98
26	34.96	*35.40	35.68	35.94	41.35	40.45	*36.07	36.13	35.40	35.39	35.21	35.61
27	.93	* .65	.84	36.24	.13	.65	* .38	.05	.47	.30	.15	.24
28	.97	* .97	36.06	37.47	.16	.76	* .46	.02	.66	.19	.13	.15
29	.83	*37.03	.08	.85	.29	41.12	* .48	35.99	.67	.17	.12	.12
30	.79	.46	35.92	38.19	.05	.04	* .45	.98	.46	.16	-	.08
31	-	.16	-	.99	40.88	-	* .28	-	.33	.16	-	-
Mean	34.88	35.41	35.96	36.96	39.86	40.94	38.20	36.48	35.80	35.26	35.17	35.25
Max.	34.98	37.46	37.38	40.32	41.80	42.31	42.46	36.80	36.17	35.62	35.36	36.31
Min.	34.74	34.79	35.20	35.62	38.83	39.98	35.96	35.98	35.33	35.16	35.11	34.52

WATER YEAR 1971 : Max. 42.46 m. Min. 34.52 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34	25	181	104	506	682	628	128	99	62	54	53
2	34	26	178	117	507	677	572	131	95	61	65	52
3	33	25	218	160	484	685	638	130	89	67	61	49
4	33	25	235	173	455	698	814	144	86	81	54	49
5	32	28	207	176	427	720	960	151	84	82	53	49
6	32	30	180	146	409	736	924	156	80	69	52	49
7	31	29	152	138	405	698	828	155	89	65	53	48
8	31	31	105	133	428	659	743	152	113	61	52	48
9	31	45	76	107	444	685	722	136	122	60	50	48
10	30	103	65	90	437	811	673	133	120	59	52	65
11	27	105	65	86	406	804	475	150	118	58	51	106
12	26	89	68	79	413	719	330	161	116	58	50	72
13	26	76	76	74	437	653	275	172	114	58	50	38
14	26	61	69	78	401	605	235	169	113	57	50	26
15	26	53	62	155	435	572	214	167	109	56	51	64
16	26	48	56	515	448	553	196	153	107	56	63	122
17	26	43	51	604	449	557	187	149	105	55	59	133
18	26	39	47	474	458	584	152	176	104	55	52	123
19	25	38	54	327	480	697	143	169	102	55	50	75
20	23	35	99	224	514	830	129	156	99	55	50	40
21	23	36	115	214	562	933	122	161	85	55	50	28
22	32	38	91	194	647	897	118	168	90	54	52	23
23	31	42	75	162	841	816	111	168	79	54	61	21
24	34	42	67	133	732	712	104	162	72	54	63	47
25	33	48	70	112	786	643	100	136	69	55	57	107
26	33	59	79	98	763	623	109	114	68	67	56	82
27	31	76	90	124	727	653	136	107	72	61	53	58
28	28	101	108	245	732	670	143	105	85	55	52	53
29	26	199	109	286	753	725	145	102	65	54	51	51
30	25	244	97	324	714	712	142	101	72	53	-	50
31	-	212	-	422	688	-	127	-	63	53	-	49
Total	874	2,051	3,145	6,275	16,888	21,009	11,195	4,362	2,904	1,845	1,567	1,878
Mean	291	66.2	105	202	545	700	361	145	93.7	59.5	54.0	60.6
Max.	34	244	235	604	841	933	960	176	122	82	65	133
Min.	23	25	47	74	401	553	100	101	63	53	50	21
Runoff - mcm.	75.514	177.206	271.728	542.160	1,459.123	1,815.178	967.248	376.877	250.906	159.408	135.388	162.259

WATER YEAR 1971 : Max. 960 Min. 21 Mean 202 Annual Runoff 6,392.995 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	-	42.46	960				

NAN RIVER BASIN

Nan River at Phichit, Phichit (N. 7)

Location: Lat. 16°-26'-31" N., Long. 100°-21'-11" E., on right bank infront of Phichit Phitthaya School, Amphoe Muang, Phichit.

Drainage Area: 29,153 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 26.00 m. (M.S.L.)

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

- Location: On right bank about 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: 1965-1967, 1973 to date.
- Rated by Float: -
- Rated by Current Meter: 1965-1967, 1973 to date.

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

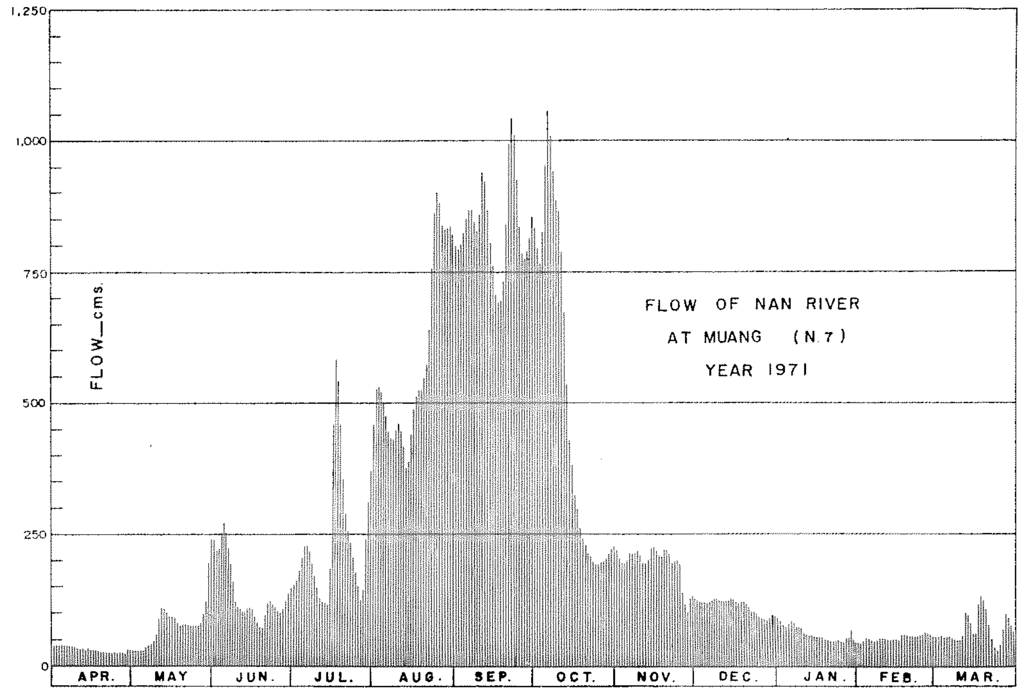
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1965-67. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.77	26.60	29.45	28.48	31.52	33.95	34.18	29.26	28.18	27.69	26.90	27.10
2	.79	.59	.24	.60	.98	.91	33.89	.10	.13	.62	.95	.12
3	.80	.57	.36	.68	.98	.98	.73	.00	.12	.51	27.08	.15
4	.82	.56	.65	29.06	.85	34.15	34.10	.02	.10	.44	.07	.12
5	.82	.63	.79	.26	.68	.32	35.03	.09	.10	.54	.02	.10
6	26.80	26.77	29.50	29.40	31.38	34.40	35.36	29.23	28.12	27.62	26.99	27.09
7	.79	.82	.16	.35	.21	.38	.17	.20	.19	.55	.95	.03
8	.76	.86	28.82	.18	.20	.20	34.87	.22	.20	.44	27.03	.00
9	.73	27.00	.19	28.95	.32	.13	.52	.27	.19	.40	.10	.00
10	.70	.23	.00	.60	.45	.36	.36	.17	.15	.38	.06	.02
11	26.70	27.76	27.93	28.28	31.38	34.79	33.92	28.99	28.12	27.22	27.02	27.22
12	.68	.98	.83	.14	.16	.69	32.92	29.00	.13	.20	.00	.83
13	.66	.95	.89	.08	30.70	.35	31.70	.09	.16	.19	.00	.77
14	.64	.80	.96	.04	.82	33.95	.06	.33	.20	.16	.02	.49
15	.62	.75	.96	.13	31.34	.66	30.75	.33	.19	.14	.03	.18
16	26.60	27.74	27.84	29.58	31.73	33.30	30.25	29.27	28.14	27.13	27.02	27.27
17	.58	.62	.66	32.05	.90	.20	.01	.15	.10	.10	.18	28.08
18	.57	.53	.47	.39	.95	.25	29.69	.14	.12	.08	.18	.23
19	.53	.47	.40	31.73	.97	.53	.49	.29	.12	.03	.15	.13
20	.50	.50	.53	30.64	32.13	34.24	.38	.27	.08	.00	.13	27.83
21	26.49	27.50	28.03	29.98	32.38	35.04	29.22	29.15	27.98	26.99	27.10	27.35
22	.48	.47	.13	.68	.94	.30	.16	.01	.90	.98	.10	26.96
23	.50	.47	.08	.45	33.87	.14	.05	.04	.88	.97	.13	.75
24	.50	.45	27.95	.17	34.53	34.74	28.98	.07	.82	.97	.19	.62
25	.49	.44	.89	28.83	.58	.20	.98	.00	.71	.95	.23	.81
26	26.47	27.47	27.83	28.44	34.46	33.89	29.05	28.34	27.70	26.92	27.25	27.40
27	.46	.60	.83	.15	.20	.78	.06	.04	.67	27.07	.20	.79
28	.48	.86	28.05	.49	.14	.88	.15	27.83	.63	.14	.14	.69
29	.60	28.20	.25	29.77	.17	34.06	.28	28.24	.74	.33	.12	.46
30	.63	29.06	.45	30.23	.20	.30	.31	.25	.81	26.95		.29
31		.49		.81	.09		.34		.77	.93		.20
Mean	26.63	27.47	28.30	29.29	32.39	34.17	31.45	28.98	28.01	27.21	27.08	27.32
Max.	26.82	29.49	29.79	32.39	34.58	35.30	35.36	29.33	28.20	27.69	27.25	28.23
Min.	26.46	26.56	27.40	28.04	30.70	33.20	28.98	27.83	27.63	26.92	26.90	26.62

WATER YEAR 1971 : Max. 35.36 m. Min. 26.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35	28	237	150	470	799	834	218	126	90	42	53
2	36	28	216	160	528	793	790	203	123	86	45	54
3	37	27	228	166	528	804	766	194	122	79	52	56
4	38	26	257	199	511	829	822	196	120	74	51	54
5	38	29	271	218	490	656	986	202	120	81	49	53
6	37	35	242	232	454	869	1,054	215	122	86	47	52
7	36	38	208	227	433	866	1,014	212	127	81	45	49
8	35	40	178	210	432	837	954	214	128	74	49	47
9	33	47	127	189	446	826	890	219	127	71	53	47
10	32	61	113	160	462	863	863	209	124	70	51	49
11	32	95	108	134	454	939	792	193	122	60	49	60
12	31	111	100	123	427	920	653	194	123	59	47	100
13	28	109	105	119	372	861	492	202	125	58	47	96
14	30	98	110	116	386	799	415	225	128	57	49	77
15	29	94	110	123	449	756	378	225	127	55	49	58
16	28	94	101	250	496	705	321	215	123	55	49	63
17	27	86	88	537	518	691	295	207	120	53	58	119
18	27	80	76	582	524	698	261	207	122	52	58	130
19	25	76	71	496	527	737	241	221	122	49	56	123
20	24	78	80	366	548	843	230	219	119	47	55	100
21	24	78	115	291	580	988	214	207	111	47	53	68
22	23	76	123	260	656	1,041	208	195	105	46	53	45
23	24	76	119	237	787	1,008	198	198	104	46	55	34
24	24	75	110	209	891	930	192	200	99	46	58	29
25	24	74	105	179	900	837	192	194	92	44	61	37
26	23	76	100	147	879	790	198	139	91	43	62	71
27	22	84	103	124	837	774	199	116	89	51	59	97
28	23	102	117	151	828	789	207	100	86	55	55	90
29	28	128	132	269	832	816	220	131	94	67	54	75
30	29	199	148	319	837	853	223	132	99	45	–	64
31	–	241	–	385	820	–	226	–	96	44	–	59
Total	882	2,489	4,198	7,328	18,302	25,117	15,328	5,806	3,536	1,871	1,511	2,109
Mean	29.4	80.3	140	236	590	837	494	193	114	60.3	52.1	68.0
Max.	38	241	271	582	900	1,041	1,054	225	128	90	62	130
Min.	22	26	71	116	372	691	192	100	86	43	42	29
Runoff - mcm.	76.205	215.050	362.707	633.139	1,581.293	2,170.109	1,324.339	501.638	305.510	161.654	130.551	182.218

WATER YEAR 1971 : Max. 1,054 Min. 22 Mean 242 Annual Runoff 7,644.413 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	06.00	35.39	1,061				

NAN RIVER BASIN

Nan River at Amphoe Bang Mun Nak, Phichit (N. 8)

Location: Lat. 16°-01'-50" N., Long. 100°-22'-53" E., on left bank about 100 meters upstream from 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: + 19.800 m. (M.S.L.)

Bench Mark: B.M. - H.S. No. 8

Location: Infront of gage observer's house.
Elevation: + 30.523 m. (M.S.L.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 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: 1965-1967, 1973 to date.
Rated by Float: -
Rated by Current Meter: 1965-1967, 1973 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair on period April 1 - November 10, records poor on period November 11 - March 31. Stage-discharge relationship used is defined by discharge measurements made during 1965-1967. No State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

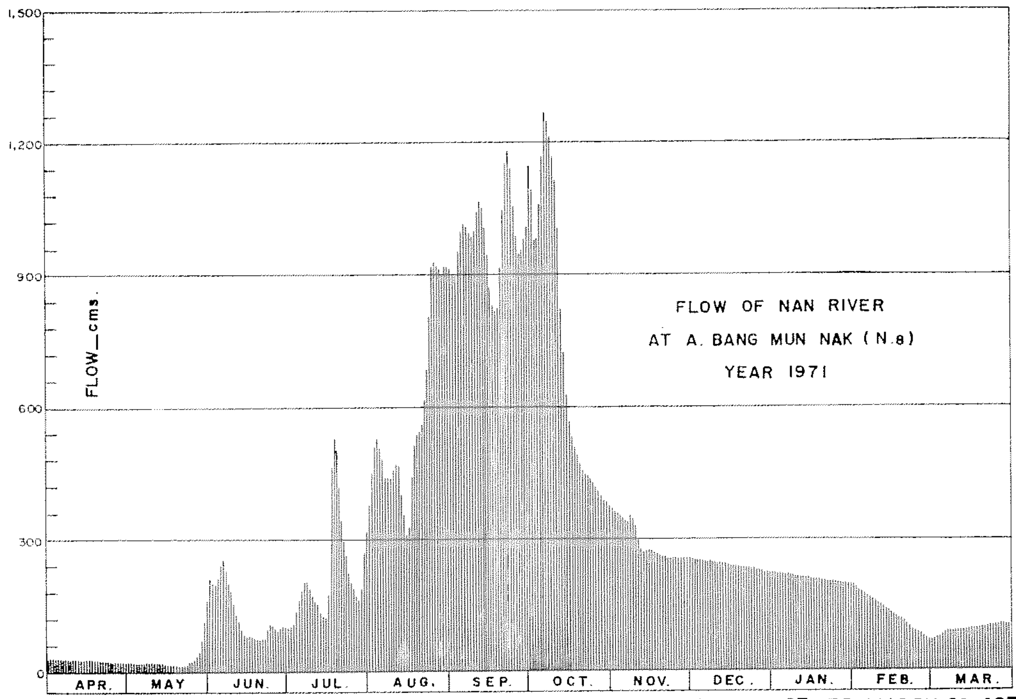
Remarks: Discharge records on period October 7, 1971 - March 31, 1972 obtained by Transition Curve.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.96	20.73	23.42	22.16	24.99	28.22	28.79	24.52	23.51	23.19	22.86	21.32
2	.95	.72	.34	.22	25.53	.17	.68	.46	.50	.18	.81	.34
3	.95	.71	.27	.29	.98	.17	.51	.42	.49	.17	.76	.37
4	.94	.71	.44	.65	26.04	.37	.57	.38	.47	.16	.71	.41
5	.94	.69	.73	.93	25.97	.60	.94	.34	.46	.15	.66	.46
6	20.93	20.71	23.87	23.15	25.77	28.68	29.27	24.29	23.45	23.14	22.61	21.51
7	.93	.74	.67	.33	.54	.66	.34	.26	.44	.13	.56	.54
8	.92	.77	.40	.35	.44	.59	.26	.40	.43	.12	.51	.55
9	.92	.76	.12	.21	.43	.55	.10	.32	.42	.11	.46	.56
10	.91	.76	22.82	22.98	.55	.61	28.98	.28	.41	.10	.41	.57
11	20.91	20.72	22.55	22.87	25.64	28.78	28.85	23.94	23.40	23.09	22.36	21.58
12	.90	.71	.32	.82	.62	.88	.30	.68	.39	.08	.31	.60
13	.90	.69	.07	.62	.31	.81	27.57	.63	.38	.07	.26	.61
14	.89	.67	21.83	.46	24.86	.63	26.99	.67	.37	.06	.21	.62
15	.89	.65	.81	.44	.36	.40	.50	.68	.36	.05	.16	.63
16	20.87	20.62	21.85	22.45	24.42	28.06	26.09	23.67	23.35	23.04	22.11	21.64
17	.87	.60	.82	23.85	25.32	27.83	25.78	.64	.34	.03	.06	.65
18	.86	.57	.78	25.69	.96	.76	.61	.62	.33	.02	.01	.66
19	.85	.55	.75	26.05	26.09	.81	.46	.58	.32	.01	21.96	.67
20	.84	.53	.70	25.55	.11	28.23	.34	.54	.31	.00	.91	.68
21	20.83	20.55	21.74	24.82	26.25	28.80	25.24	23.52	23.30	22.99	21.76	21.71
22	.82	.60	.82	.32	.54	29.17	.16	.50	.29	.98	.71	.74
23	.81	.68	22.09	.01	27.01	.28	.12	.50	.28	.97	.66	.75
24	.80	.75	.25	23.58	.76	.16	.06	.51	.27	.96	.61	.76
25	.79	.80	.16	.33	28.26	28.86	.00	.51	.26	.95	.56	.77
26	20.78	20.88	22.07	23.18	28.30	28.56	24.91	23.52	23.25	22.94	21.51	21.79
27	.77	21.08	.02	.01	.25	.39	.81	.52	.24	.93	.46	.80
28	.76	.45	.12	22.89	.20	.44	.72	.51	.23	.92	.33	.81
29	.75	.89	.22	23.21	.18	.56	.67	.50	.22	.91	.32	.80
30	.74	22.32	.19	24.01	.26	.72	.63	.52	.21	.90		.79
31		.98		.52	.27		.57		.20	.89		.79
Mean	20.87	20.89	22.47	23.42	26.30	28.52	26.77	23.85	23.35	23.04	22.12	21.63
Max.	20.96	22.98	23.87	26.05	28.30	29.28	29.34	24.52	23.51	23.19	22.86	21.81
Min.	20.74	20.53	21.70	22.16	24.36	27.76	24.57	23.50	23.20	22.89	21.32	21.32

WATER YEAR 1971 : Max. 29.34 m. Min. 20.53 m.

BN. 55



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31	21	212	102	385	911	1,043	370	257	225	193	71
2	31	21	204	106	455	900	1,015	363	256	224	189	73
3	31	20	197	113	514	900	975	358	255	223	184	75
4	30	20	214	141	528	943	989	354	253	222	180	78
5	30	20	243	165	512	996	1,083	349	252	221	175	81
6	30	20	256	185	486	1,015	1,179	343	251	220	171	85
7	30	22	237	203	442	1,010	1,269	339	250	219	166	87
8	29	23	210	205	439	994	1,247	356	249	218	162	87
9	29	22	182	191	441	984	1,202	346	248	217	158	88
10	29	22	156	170	457	998	1,169	342	247	216	154	89
11	29	21	133	160	468	1,041	1,133	302	246	215	150	90
12	28	20	115	156	467	1,067	996	274	245	214	146	91
13	28	20	97	138	425	1,049	838	269	244	213	142	92
14	28	19	81	126	370	1,003	728	273	243	212	138	92
15	28	18	79	125	309	950	642	274	242	211	134	93
16	27	17	83	125	316	875	577	273	241	210	130	94
17	27	16	80	254	426	831	532	270	240	209	126	94
18	26	15	77	475	510	817	508	268	239	208	122	95
19	26	14	75	530	538	827	488	264	238	207	118	96
20	26	14	72	457	541	913	472	260	237	206	114	97
21	25	14	74	365	556	1,046	459	258	236	205	102	99
22	25	16	80	306	602	1,150	449	256	235	204	99	101
23	24	16	98	271	682	1,182	444	256	234	203	95	101
24	24	22	109	228	817	1,147	436	257	233	202	92	102
25	24	24	102	203	919	1,062	428	257	232	201	88	103
26	23	27	97	188	927	987	417	258	231	201	85	104
27	23	37	93	173	917	948	405	258	230	200	81	105
28	22	57	100	162	907	959	394	257	229	199	72	106
29	22	87	106	191	902	987	388	256	228	198	71	105
30	22	115	103	271	919	1,025	384	258	227	197	–	104
31	–	170	–	323	913	–	376	–	226	196	–	104
Total	807	970	3,965	6,808	18,090	29,517	22,665	8,818	7,474	6,516	3,837	2,882
Mean	26.9	31.3	132	220	583	984	731	294	241	210	132	93.0
Max.	31	170	256	530	927	1,182	1,269	370	257	225	193	106
Min.	22	14	72	102	309	817	376	256	226	196	71	71
Runoff – mcm.	69.725	83.808	342.576	588.211	1,562.976	2,550.269	1,958.256	761.875	645.754	562.982	331.517	249.005

WATER YEAR 1971 : Max. 1,269 Min. 14 Mean 307 Annual Runoff 9,706.954 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7	24.00	29.34	1,269				

NAN RIVER BASIN

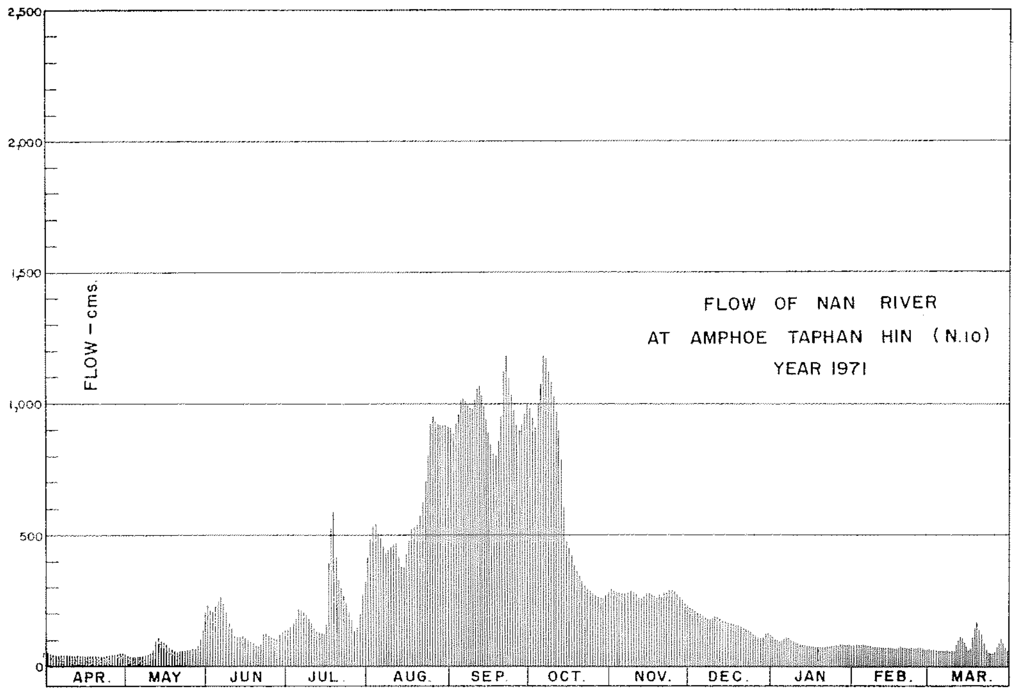
Nan River at Amphoe Taphan Hin, Phichit (N. 10)

Location:	Lat. 16°-13'-03" N., Long. 100°-25'-26" E., on right bank about 1 kilometer downstream from Wat Theva Prasat, Tambon Huai Ket, Amphoe Taphan Hin, Phichit.
Drainage Area:	30,760 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 22.41 m. (M.S.L.)
Bench Mark:	B.M. – H.S. No. 1
Location:	On right bank along the vertical staff gage line.
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:	1954–1973
Rating Operation:	
Period of Rating:	1965–1967
Rated by Float:	–
Rated by Current Meter:	1965–1967
Stability of Channel Regimes:	Fairly stable, no shifting adjustment but periodic curves are used for flow computation.
Overbank Flow Conditions:	Overbank flow starts at elevation + 30.80 m. (M.S.L.) and included for flow computation.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1965–1967. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.55	23.46	25.79	24.91	27.69	30.41	30.87	26.03	25.44	24.18	23.86	23.80
2	.53	.44	.61	.99	28.26	.35	.63	25.98	.40	.12	.86	.79
3	.50	.45	.66	25.08	.40	.51	.45	.96	.19	.11	.91	.78
4	.49	.44	.94	.34	.27	.83	.73	.90	.19	.08	24.00	.78
5	.49	.45	26.24	.55	.09	.97	31.39	.92	.10	.22	23.92	.76
6	23.48	23.48	26.13	25.75	27.91	31.00	31.73	25.99	25.01	24.34	23.85	23.74
7	.47	.53	25.87	.64	.51	30.91	.67	.99	24.96	.29	.85	.73
8	.46	.55	.50	.54	.63	.83	.45	.97	.91	.16	.83	.72
9	.44	.61	.11	.41	.73	.81	.21	.93	25.08	.09	.81	.71
10	.43	.68	24.83	.19	.87	.94	.11	.81	.13	.05	.80	.70
11	23.43	23.97	24.61	24.94	27.87	31.22	30.80	25.69	25.08	24.02	23.80	23.74
12	.41	24.46	.48	.81	.79	.23	29.89	.74	.02	.01	.80	24.19
13	.39	.48	.47	.78	.17	.01	28.94	.75	24.98	.00	.79	.30
14	.38	.33	.59	.75	.06	30.74	.26	.95	.94	23.98	.79	23.94
15	.38	.17	.48	.75	.51	.37	27.68	.97	.90	.96	.79	.61
16	23.37	24.02	24.36	25.41	27.96	30.07	27.35	25.95	24.85	23.96	23.79	23.44
17	.39	23.91	.25	27.90	28.20	29.91	.14	.85	.80	.96	.82	24.30
18	.40	.84	.15	28.70	.29	.90	26.91	.77	.77	.94	.95	.32
19	.42	.77	.08	.28	.35	30.16	.64	.88	.74	.92	.88	.80
20	.44	.75	.05	27.40	.48	.74	.46	.75	.70	.91	.81	.48
21	23.44	23.83	24.24	26.65	28.73	31.34	26.30	25.99	24.67	23.99	23.80	23.99
22	.41	.84	.78	.31	29.11	.70	.18	.99	.57	.90	.79	.62
23	.43	.80	.72	.06	.77	.59	.09	26.07	.49	.89	.80	.40
24	.53	.82	.56	25.75	30.56	.24	25.95	.09	.45	.89	.84	.32
25	.55	.86	.49	.43	.74	30.81	.83	.03	.33	.89	.95	.28
26	23.59	23.84	24.44	25.15	30.64	30.49	25.74	25.94	24.24	23.90	23.92	24.01
27	.62	.99	.51	24.90	.55	.38	.69	.79	.22	.93	.87	.29
28	.60	24.27	.61	25.05	.51	.51	.73	.70	.28	24.00	.82	23.99
29	.56	.55	.76	.90	.51	.71	.92	.56	.37	.01	.80	.85
30	.51	25.14	.90	26.57	.55	.94	26.03	.50	.44	23.89		.77
31		.79		27.05	.50		.06		.37	.87		.74
Mean	23.47	23.95	24.87	25.80	28.72	30.75	28.35	25.88	24.70	24.01	23.84	23.87
Max.	23.62	25.79	26.24	28.70	30.74	31.70	31.73	26.09	25.44	24.29	24.00	24.80
Min.	23.37	23.44	24.05	24.75	27.06	29.90	25.69	25.50	24.37	23.87	23.79	23.28

WATER YEAR 1971 : Max. 31.73 m. Min. 23.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42	37	222	140	444	891	985	288	226	105	80	75
2	41	36	204	147	524	879	935	283	222	101	80	74
3	39	36	209	155	545	911	899	281	201	100	84	74
4	38	36	238	179	525	976	955	274	201	97	91	74
5	38	36	269	199	500	1,006	1,101	276	192	109	85	72
6	38	38	258	218	474	1,012	1,182	284	183	109	79	71
7	37	41	230	207	421	993	1,171	284	178	115	79	70
8	37	42	194	198	436	976	1,124	282	173	104	77	69
9	36	46	158	185	449	972	1,074	277	190	98	76	69
10	35	50	133	165	469	999	1,054	264	195	95	75	68
11	35	69	115	143	469	1,062	992	251	190	93	75	71
12	34	103	105	131	458	1,064	823	256	184	92	75	106
13	33	105	104	128	477	1,014	666	257	178	91	74	116
14	33	94	113	126	364	957	563	279	176	89	74	86
15	33	83	105	126	421	883	465	282	172	88	74	62
16	32	72	96	185	481	824	442	279	167	88	74	50
17	33	65	88	473	515	795	415	268	162	88	77	116
18	34	60	81	590	528	793	387	260	159	86	87	118
19	35	55	77	527	537	841	355	272	156	85	81	162
20	36	54	74	406	557	957	336	257	152	84	76	132
21	36	59	88	315	595	1,089	318	284	149	83	75	90
22	34	60	128	277	656	1,174	305	284	140	83	74	62
23	35	57	124	250	770	1,148	295	293	133	81	75	47
24	41	58	111	218	921	1,066	279	295	129	81	78	41
25	42	61	105	187	957	972	266	288	119	81	87	39
26	44	60	102	161	937	907	256	278	111	83	85	92
27	46	70	107	139	919	885	251	262	109	85	81	115
28	45	90	115	152	911	911	255	252	114	91	77	90
29	43	110	127	233	911	951	276	238	122	92	75	79
30	40	161	139	305	919	999	288	232	129	81	–	73
31	–	222	–	362	909	–	292	–	122	81	–	71
Total	1,125	2,166	4,219	7,227	18,899	28,907	19,025	8,160	5,034	2,839	2,280	2,534
Mean	37.5	69.9	141	233	610	963	614	272	162	91.5	78.6	81.7
Max.	46	222	269	590	957	1,174	1,182	295	226	115	91	162
Min.	32	36	74	126	364	793	251	232	122	81	74	39
Runoff – mcm.	97.200	187.142	364.522	624.413	1,632.874	2,497.565	1,643.760	705.024	434.937	245.290	196.992	218.937

WATER YEAR 1971 : Max. 1,182 Min. 32 Mean 280 Annual Runoff 8,848.656 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	14.00	31.75	1,187				

NAN RIVER BASIN

Nan River at Ban Hat Phai, Uttaradit (N. 12A)

Location: Lat. 17°-44'-10" N., Long. 100°-32'-28" E., on right bank about 4 kilometers downstream from Sirikit Damsite, along the road Phasom-Silat at Ban Hat Phai, Amphoe Tha Pla, Uttaradit.

Drainage Area: 15,718 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: +.69.00 m. (M.S.L.)

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

Location: on right bank infront of N12A Station office.
Elevation: B.M.1 + 84.00 m. (M.S.L.), B.M.2 + 83.655 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1966 to date.

Rating Operation:

Period of Rating: 1966 to date.
Rated by Float: -
Rated by Current Meter: 1966 to date.

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

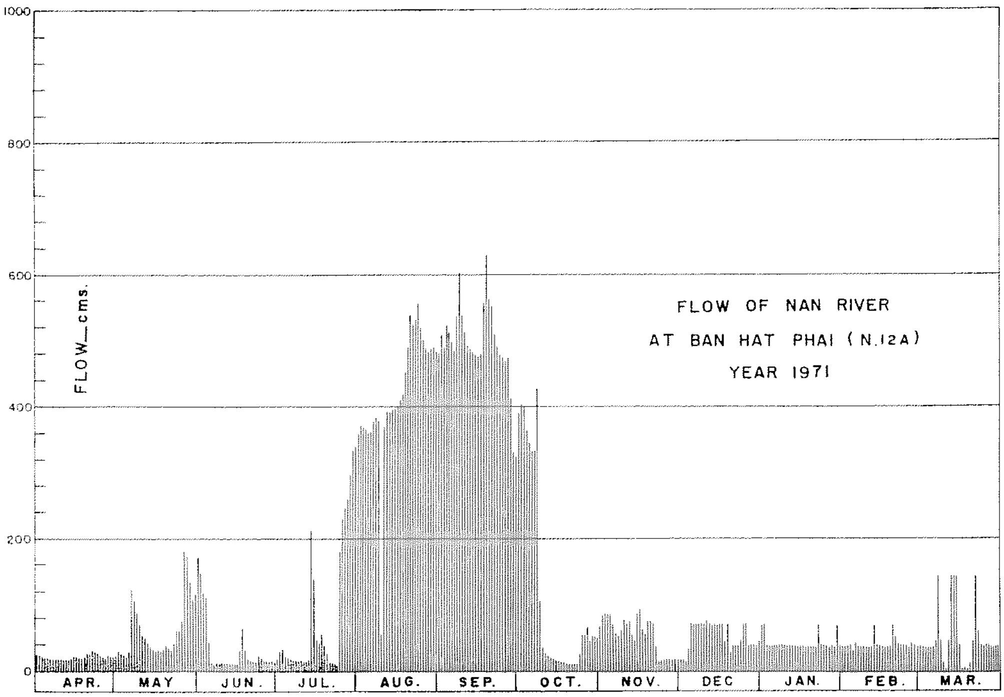
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	70.08	70.10	71.55	70.00	72.67	73.26	72.82	70.65	69.96	70.65	70.25	70.25
2	.06	.15	.30	.20	.73	.39	.87	.80	.95	.65	.25	.25
3	.04	.09	.05	.18	.71	.29	.87	.80	.89	.27	.26	.25
4	.02	.04	.03	.03	.69	.46	.69	.80	70.30	.28	.28	.25
5	.00	.03	70.31	69.99	.67	.37	.61	.79	.65	.28	.16	.25
6	69.99	70.26	69.81	69.97	72.69	73.31	72.53	70.63	70.65	70.27	70.30	70.25
7	.98	71.13	.75	.93	.78	.27	.54	.47	.66	.27	.24	.41
8	.97	.00	.80	.91	.78	.60	73.00	.47	.66	.29	.25	71.31
9	.96	70.78	.79	.89	.75	.80	70.92	.56	.66	.29	.25	70.30
10	.96	.65	.80	.87	70.48	.46	.22	.72	.66	.26	.24	69.48
11	69.95	70.45	69.80	69.86	72.72	73.36	70.10	70.66	70.70	70.26	70.25	69.44
12	.97	.40	.79	.85	.83	.30	.05	.69	.64	.27	.25	70.69
13	70.00	.31	.78	.88	.83	.29	.00	.43	.64	.27	.63	71.31
14	.01	.23	.77	71.82	.85	.26	69.96	.38	.65	.26	.26	.31
15	.05	.18	.77	.13	.86	.24	.91	.81	.65	.26	.25	.31
16	70.00	70.15	69.78	70.59	72.88	73.24	69.87	70.86	70.65	70.27	70.25	70.13
17	69.98	.18	70.30	.34	.93	.31	.86	.55	.65	.26	.25	69.55
18	70.00	.16	.57	.48	.97	.60	.82	.51	.32	.25	.25	.64
19	.06	.21	.11	.29	73.12	.92	.81	.70	.65	.26	.25	.55
20	.12	.26	69.94	.15	.36	.61	.78	.70	.28	.25	.63	.91
21	70.12	70.20	69.87	69.86	73.96	73.58	69.78	70.70	70.27	70.25	70.37	70.36
22	.16	.19	.85	.79	.89	.37	.77	.28	.28	.26	.29	71.31
23	.14	.33	.87	.74	.50	.30	.78	69.88	.29	.64	.27	70.52
24	.10	.54	70.01	.78	.61	.25	70.12	.93	.39	.27	.27	.26
25	.03	.56	69.96	71.58	.43	.23	.47	.95	.64	.27	.27	.26
26	69.99	70.78	69.88	71.95	73.36	73.21	70.47	69.95	70.65	70.26	70.24	70.27
27	.97	71.61	.85	72.06	.29	.23	.60	.96	.28	.25	.33	.27
28	70.07	.55	.88	.15	.27	72.93	.34	.95	.28	.27	.27	.26
29	69.98	.26	.86	.36	.30	.51	.45	.95	.28	.25	.25	.25
30	70.06	.01	.90	.53	.31	.49	.44	.95	.40	.63		.26
31		.12		.58	.27		.43			.25		.27
Mean	70.03	70.52	70.09	70.60	72.98	73.27	70.78	70.44	70.45	70.31	70.29	70.42
Max.	70.16	71.61	71.55	72.58	73.96	73.92	73.00	70.86	70.70	70.65	70.63	71.31
Min.	69.95	70.03	69.75	69.74	70.48	72.49	69.77	69.88	69.89	70.25	70.16	69.44

WATER YEAR 1971 : Max. 73.96 m. Min. 69.44 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	26	173	20	360	479	390	71	18	71	37	37
2	24	29	142	33	372	508	400	86	18	71	37	37
3	22	25	112	32	368	486	400	86	16	39	38	37
4	21	22	110	22	364	523	364	86	41	39	39	37
5	20	22	42	20	360	503	348	85	71	39	30	37
6	20	38	12	19	364	490	332	63	71	39	41	37
7	19	122	10	17	382	481	334	55	72	39	36	50
8	19	106	12	16	382	554	426	55	72	40	37	143
9	18	84	12	16	376	600	98	63	72	40	37	33
10	18	71	12	15	55	523	35	78	72	38	36	1.60
11	18	53	12	15	370	501	26	72	76	38	37	0.80
12	19	49	12	14	392	488	23	75	70	39	37	75
13	20	42	11	15	392	466	20	51	70	39	69	143
14	21	35	11	212	396	479	18	47	71	38	38	143
15	23	32	11	122	398	475	16	87	71	38	37	143
16	20	29	11	65	402	475	15	93	71	39	37	28
17	19	32	41	44	412	490	14	61	71	38	37	3.00
18	20	30	63	55	420	554	13	58	43	37	37	5.60
19	24	34	27	40	452	628	12	76	71	38	37	3.00
20	27	38	18	29	501	556	11	76	28	37	69	16
21	27	33	15	14	637	550	11	70	39	37	47	46
22	30	32	14	12	621	503	11	39	39	38	40	143
23	29	43	15	9.60	532	488	11	15	40	70	39	59
24	26	61	22	11	556	477	27	17	48	39	39	38
25	22	62	18	177	517	473	55	18	70	39	39	38
26	20	84	15	232	501	468	55	18	71	38	36	39
27	19	181	14	250	486	473	66	18	39	37	43	39
28	24	173	15	264	481	412	44	18	39	39	39	38
29	19	137	14	301	488	328	53	18	39	37	37	37
30	24	107	16	332	490	324	52	18	39	69	–	38
31	–	120	–	342	481	–	51	–	49	37	–	39
Total	657	1,952	1,012	2,765.60	13,308	14,775	3,731	1,673	1,677	1,316	1,162	1,564
Mean	21.9	62.9	33.7	89.2	429	492	120	55.8	54.1	42.4	40.1	50.4
Max.	30	181	173	342	637	628	426	93	76	71	69	143
Min.	18	22	10	9.60	55	324	11	15	16	37	30	0.80
Runoff – mcm.	56.765	168.653	87.437	238.948	1,149.811	1,276.560	322.358	144.547	144.893	113.702	100.397	135.130

WATER YEAR 1971 : Max. 637 Min. 0.80 Mean 124 Annual Runoff 3,939.201 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.21	22.00	74.76	836				

Nan River at Ban San, Nan (N. 13)

Location: Lat. 18°-32'-06" N., Long. 100°-46'-06" E., on right bank infront of Wat Phranet, at Ban San, Amphoe Sa, Nan.

Drainage Area: 8,993 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 176.65 m. (M.S.L.)

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

Location: near the gage site.
Elevation: + 186.634 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: 1959-1974

Rating Operation:

Period of Rating: 1959-1966
Rated by Float: -
Rated by Current Meter: 1959-1966

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 relationship used is defined by discharge measurements made during 1959-1966. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

Remarks: *Estimate gage height by correlation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	177.04	176.92	177.45	178.70	*180.10	179.84	178.37	177.56	177.31	177.21	177.06	176.99
2	.04	.91	.45	.59	179.44	.74	.52	.54	.30	.22	.06	.99
3	.05	.95	.55	.41	.13	.77	.57	.52	.29	.20	.05	.99
4	.06	177.10	.50	.46	178.87	.81	.28	.50	.29	.16	.05	.98
5	.06	.34	.43	.86	.83	.58	.12	.49	.27	.16	.06	.97
6	177.07	177.35	177.35	178.72	179.45	179.42	178.00	177.47	177.27	177.15	177.05	176.97
7	.07	.24	.30	.46	181.42	.12	.08	.46	.29	.15	.06	.97
8	.08	.22	.43	.26	.06	180.39	.47	.45	.29	.15	.07	.97
9	.07	.19	.58	.47	180.89	.33	.13	.44	.28	.15	.07	.97
10	.05	.17	.53	.73	.80	179.54	177.96	.47	.28	.15	.06	.96
11	177.03	177.17	177.60	178.48	181.18	179.09	177.90	177.52	177.28	177.15	177.06	176.94
12	.01	.22	.56	.28	180.71	178.85	.85	.48	.27	.14	.07	.94
13	176.99	.23	.48	.80	.40	.69	.80	.44	.26	.14	.06	.94
14	177.00	.23	.40	180.58	.25	.57	.78	.43	.24	.13	.04	.97
15	176.99	.23	.42	181.56	181.00	.53	.78	.41	.22	.13	.02	.99
16	176.96	177.22	177.64	180.67	180.50	178.79	177.78	177.38	177.21	177.12	177.02	176.95
17	.93	.22	178.03	179.67	.19	.72	.78	.39	.20	.11	.03	.95
18	.93	.22	177.90	.95	.70	179.48	.76	.38	.19	.12	.03	.97
19	.92	.22	.70	180.28	182.70	.19	.75	.38	.19	.12	.05	.99
20	.92	.22	.63	182.20	183.25	178.81	.74	.38	.20	.11	.07	.98
21	176.92	177.22	177.54	*181.52	183.88	178.53	177.73	177.37	177.21	177.11	177.14	177.01
22	.92	.23	.89	*180.33	184.04	.35	.73	.34	.21	.10	.19	.02
23	.92	.24	178.36	*179.61	182.29	.23	.72	.32	.21	.10	.14	.02
24	.93	.25	.51	* .40	181.05	.17	.64	.31	.21	.09	.09	.02
25	.93	.16	.56	* .80	180.56	.13	.58	.31	.22	.09	.06	.03
26	176.93	177.48	178.44	*179.76	180.51	178.11	177.60	177.31	177.23	177.09	177.04	177.03
27	.92	.61	.94	* .50	.45	.09	.64	.32	.22	.08	.03	.02
28	.92	.46	179.99	* .49	.45	.07	.68	.33	.20	.08	.00	.06
29	.92	.43	.82	* .48	.38	.02	.63	.32	.20	.08	176.99	.04
30	.92	.65	.02	*180.03	.21	.03	.61	.31	.20	.08		.03
31		.70		* .87	.03		.60		.21	.08		.04
Mean	176.98	177.26	177.93	179.54	180.81	178.94	177.89	177.41	177.24	177.13	177.06	176.99
Max.	177.08	177.70	179.99	182.20	184.04	180.39	178.57	177.56	177.31	177.22	177.19	177.06
Min.	176.92	176.91	177.30	178.26	178.83	178.02	177.58	177.31	177.19	177.08	176.99	176.94

WATER YEAR 1971 : Max. 184.04 m. Min. 176.91 m.

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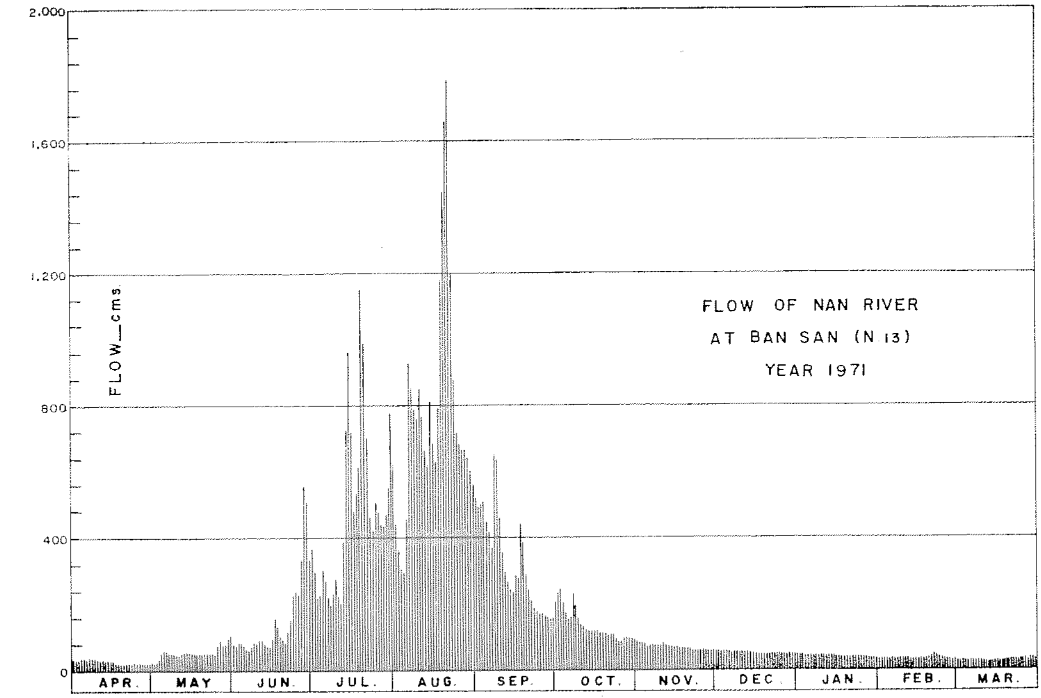


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34	22	75	270	582	520	211	86	61	51	36	29
2	34	21	75	248	429	496	236	84	60	52	36	29
3	35	25	85	218	361	503	245	82	59	50	35	29
4	36	40	80	226	304	512	197	80	59	46	35	28
5	36	64	73	302	296	460	171	70	57	46	36	27
6	37	65	65	274	431	424	152	77	57	45	35	27
7	37	54	60	226	924	358	165	76	59	45	36	27
8	38	52	73	194	826	652	227	75	59	45	37	27
9	37	49	88	227	781	637	173	74	58	45	37	27
10	35	47	83	276	758	451	146	77	58	45	36	26
11	33	47	90	229	857	352	136	82	58	45	36	24
12	31	52	86	197	735	300	128	78	57	44	37	24
13	29	53	78	290	654	268	120	74	56	44	34	24
14	30	53	70	701	618	245	117	73	54	43	34	27
15	29	53	72	962	810	237	117	71	52	43	32	29
16	26	52	96	724	680	288	117	68	51	42	32	25
17	23	52	157	479	604	274	117	69	50	41	33	25
18	23	52	136	546	732	438	114	68	49	42	33	27
19	22	52	104	625	1,308	374	112	68	49	42	35	29
20	22	52	94	1,146	1,498	292	110	68	50	41	37	28
21	22	52	84	952	1,725	237	109	67	51	41	44	31
22	22	53	134	637	1,784	208	109	64	51	40	49	32
23	22	54	210	466	1,178	189	107	62	51	40	44	32
24	23	55	238	420	823	179	96	61	51	39	39	32
25	23	46	243	510	696	173	88	61	52	39	36	33
26	23	78	222	500	683	170	90	61	53	39	34	33
27	22	91	319	442	667	166	96	62	52	38	33	32
28	22	76	556	440	667	163	101	63	50	38	30	36
29	22	73	515	438	649	155	94	62	50	38	29	34
30	22	97	336	565	608	157	91	61	50	38	–	33
31	–	104	–	776	565	–	91	–	51	38	–	34
Total	850	1,746	4,597	14,506	24,228	9,878	4,182	2,124	1,675	1,325	1,042	900
Mean	28.3	56.3	153	468	781	319	138	70.8	540	42.7	35.9	29.0
Max.	38	104	556	1,146	1,784	652	245	86	61	52	49	36
Min.	22	21	60	194	296	155	88	61	49	38	29	24
Runoff - mcm.	73.440	150.654	397.181	1,253.318	2,093.299	853.459	361.325	183.514	144.720	114.480	90.029	77.760

WATER YEAR 1971 : Max. 1,784 Min. 21 Mean 183 Annual Runoff 5,793.379 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	01.00	184.46	1,952				

NAN RIVER BASIN

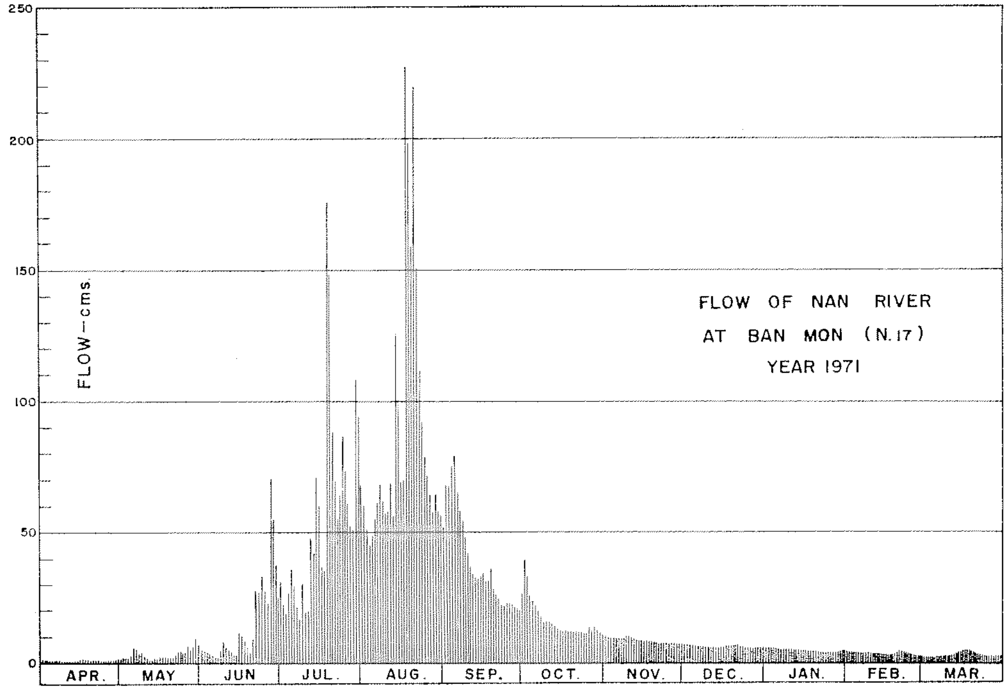
Nan River at Ban Mon, Nan (N. 17)

Location:	Lat. 19°-24'-34" N., Long. 100°-52'-05" E., on left bank at Ban Mon,Amphoe Thung Chang, Nan.
Drainage Area:	1,156 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	About 20 meters from the top of vertical staff gage.
Elevation:	+ 13.390 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1963 to date.
Rating Operation:	
Period of Rating:	1969-1973
Rated by Float:	-
Rated by Current Meter:	1969-1973
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1969-1971, 1973. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.26	0.30	0.48	1.22	1.74	1.54	1.04	0.69	0.50	0.51	0.46	0.39
2	.27	.27	.47	0.96	.64	.81	.36	.68	.55	.51	.45	.38
3	.27	.32	.46	.92	.55	.80	.17	.67	.55	.51	.45	.38
4	.26	.30	.44	1.20	.46	.90	.07	.66	.55	.50	.44	.38
5	.25	.30	.41	.31	.52	.94	.04	.65	.55	.50	.44	.37
6	0.24	0.52	0.39	1.07	1.62	1.80	0.99	0.65	0.55	0.50	0.43	0.37
7	.24	.51	.36	0.96	.71	.70	.96	.64	.54	.50	.43	.37
8	.24	.40	.42	.86	.82	.62	.89	.64	.54	.50	.43	.36
9	.23	.45	.62	1.20	.73	.59	.86	.64	.54	.49	.43	.36
10	.23	.36	.52	.00	.65	.42	.84	.69	.54	.49	.42	.37
11	0.23	0.29	0.48	0.80	1.68	1.34	0.85	0.66	0.53	0.49	0.42	0.38
12	.23	.27	.46	1.52	.82	.28	.82	.64	.53	.48	.42	.39
13	.22	.25	.40	.37	.63	.23	.79	.63	.52	.48	.42	.40
14	.24	.31	.36	.43	2.44	.22	.78	.62	.52	.48	.41	.42
15	.28	.29	.72	.84	.22	.24	.75	.62	.52	.41	.41	.44
16	0.27	0.38	0.72	1.58	1.82	1.27	0.74	0.60	0.52	0.47	0.40	0.47
17	.25	.35	.62	.31	.85	.22	.75	.60	.52	.47	.40	.48
18	.23	.31	.55	.27	3.36	.21	.74	.60	.53	.46	.39	.47
19	.25	.31	.49	2.92	2.91	.32	.74	.59	.53	.46	.39	.45
20	.26	.34	.43	.52	.76	.15	.73	.59	.53	.46	.38	.42
21	0.23	0.35	1.15	2.00	3.29	1.10	0.73	0.59	0.52	0.45	0.45	0.40
22	.28	.36	0.96	1.72	2.65	.05	.73	.59	.52	.45	.46	.39
23	.24	.46	1.10	.62	.28	.03	.72	.59	.53	.45	.45	.38
24	.21	.49	.25	.86	.13	.00	.72	.59	.52	.45	.44	.37
25	.20	.44	.11	2.04	1.93	.02	.70	.58	.50	.44	.41	.36
26	0.20	0.44	0.98	1.74	1.86	1.03	0.71	0.58	0.50	0.44	0.41	0.36
27	.20	.55	1.84	.65	.75	.01	.81	.58	.50	.44	.40	.37
28	.22	.46	.52	.55	.66	0.99	.74	.57	.49	.44	.39	.38
29	.25	.58	.26	.56	.77	.99	.80	.57	.49	.44	.39	.37
30	.28	.66	.05	2.28	.67	.96	.73	.57	.51	.46		.37
31		.56		1.91	.65		.70		.51	.48		.36
Mean	0.24	0.39	0.74	1.51	1.99	1.33	0.84	0.62	0.53	0.47	0.42	0.39
Max.	0.28	0.66	1.84	2.92	3.36	1.94	1.36	0.69	0.56	0.51	0.46	0.48
Min.	0.20	0.25	0.36	0.86	1.46	0.96	0.70	0.57	0.49	0.44	0.38	0.36

WATER YEAR 1971 : Max. 3.36 m. Min. 0.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.60	2.00	5.00	31	62	49	23	11	7.00	5.75	4.50	2.90
2	1.70	1.70	4.75	20	56	67	38	10	6.75	5.75	4.25	2.80
3	1.70	2.20	4.50	18	50	66	39	10	6.75	5.75	4.25	2.80
4	1.60	2.00	4.00	30	44	74	25	9.80	6.75	5.50	4.00	2.80
5	1.50	2.00	3.25	36	48	78	23	9.50	6.75	5.50	4.00	2.70
6	1.40	6.00	2.90	25	54	66	21	9.50	6.75	5.50	3.75	2.70
7	1.40	5.75	2.60	20	60	59	20	9.20	6.50	5.50	3.75	2.70
8	1.40	3.00	3.50	16	68	54	17	9.20	6.50	5.50	3.75	2.60
9	1.30	4.25	8.60	30	62	52	16	9.20	6.50	5.25	3.75	2.60
10	1.30	2.60	6.00	21	56	42	15	11	6.50	5.25	3.50	2.70
11	1.30	1.90	5.00	17	58	37	16	9.80	6.25	5.25	3.50	2.80
12	1.30	1.70	4.50	48	68	34	15	9.20	6.25	5.00	3.50	2.90
13	1.20	1.50	3.00	39	55	32	14	8.90	6.00	5.00	3.50	3.00
14	1.40	2.10	2.60	42	125	31	13	8.60	6.00	5.00	3.25	3.50
15	1.80	1.90	12	70	102	32	12	8.60	6.00	4.75	3.25	4.00
16	1.70	2.80	12	52	68	34	12	8.00	6.00	4.75	3.00	4.75
17	1.50	2.50	8.60	36	70	31	12	8.00	6.00	4.75	3.00	5.00
18	1.30	2.10	6.75	34	225	31	12	8.00	6.25	4.50	2.90	4.75
19	1.50	2.10	5.25	174	173	36	12	7.75	6.25	4.50	2.90	4.25
20	1.60	2.40	3.75	131	157	28	12	7.75	6.25	4.50	2.80	3.50
21	1.30	2.50	28	82	217	26	12	7.75	6.00	4.25	4.25	3.00
22	1.80	2.60	20	61	144	24	12	7.75	6.00	4.25	4.50	2.90
23	1.40	4.50	30	54	107	23	12	7.75	6.25	4.25	4.25	2.80
24	1.10	5.25	33	71	94	21	12	7.75	6.00	4.25	4.00	2.70
25	1.00	4.00	26	86	77	22	11	7.50	5.50	4.00	3.25	2.60
26	1.00	4.00	21	62	71	23	11	7.50	5.50	4.00	3.25	2.60
27	1.00	6.75	70	56	63	22	14	7.50	5.50	4.00	3.00	2.70
28	1.20	4.50	48	50	57	21	12	7.25	5.25	4.00	2.90	2.80
29	1.50	7.50	33	50	64	21	14	7.25	5.25	4.00	2.90	2.70
30	1.80	9.80	24	107	57	20	12	7.25	5.75	4.50	–	2.70
31	–	7.00	–	75	56	–	11	–	5.75	5.00	–	2.60
Total	42.60	110.90	441.55	1,644.00	2,668	1,156	490	258.25	190.75	149.75	103.40	95.85
Mean	1.42	3.58	14.7	53	86.1	38.5	15.8	8.61	6.15	4.83	3.56	3.09
Max.	1.80	9.80	70	174	225	78	38	11	7.00	5.75	4.50	5.00
Min.	1.00	1.50	2.60	16	44	20	11	7.25	5.25	4.00	2.80	2.60
Runoff - mcm.	3.681	9.582	38.150	142.042	230.515	99.878	42.336	22.313	16.481	12.938	8.934	8.281

WATER YEAR 1971 : Max. 225 Min. 1.00 Mean 20.1 Annual Runoff 635.131 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.18	20.00	3.80	287				

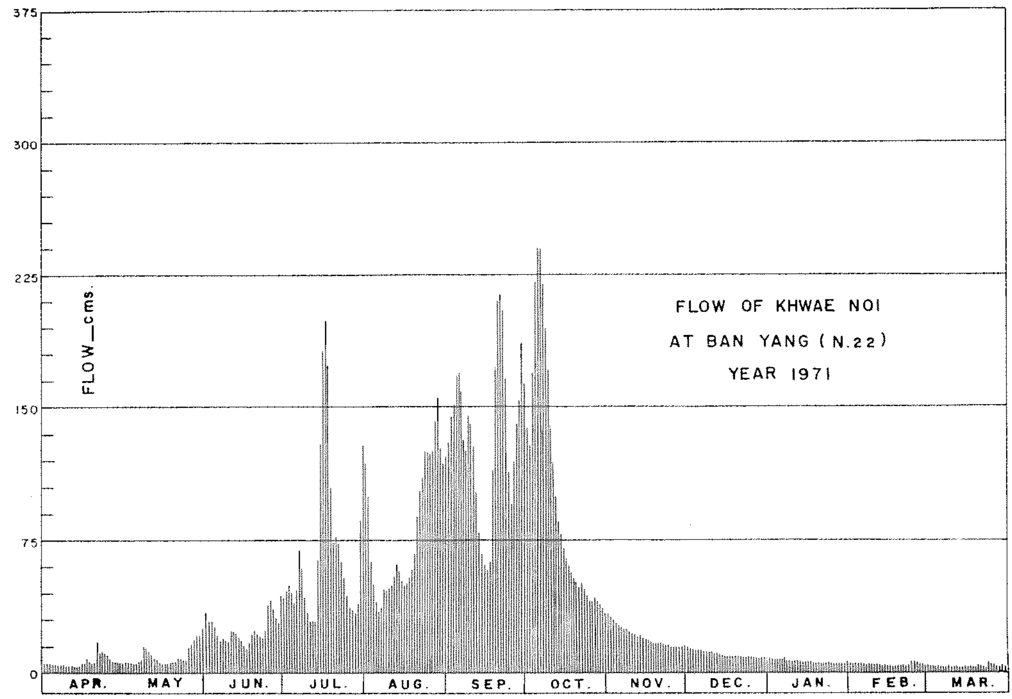
Khwae Noi at Ban Yang, Phitsanulok (N. 22)

Location:	Lat. 17°-01'-57" N., Long. 100°-22'-23" E., on left bank about 1 kilometer downstream from District Forestry office, Amphoe Wat Bot, Phitsanulok.
Drainage Area:	4,841 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 43.04 m. (M.S.L.)
Bench Mark:	B.M. N. 22
Location:	Near the gage site.
Elevation:	+ 51.143 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:	1963 to date
Rating Operation:	
Period of Rating:	1963-1974
Rated by Float:	-
Rated by Current Meter:	1963-1974
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43.86	43.88	44.78	44.98	46.30	46.46	46.60	44.75	44.23	43.97	43.82	43.75
2	.85	.89	.66	45.08	45.97	.67	.42	.70	.22	.96	.81	.75
3	.85	.86	.69	.12	.42	.75	47.05	.67	.19	.96	.81	.74
4	.83	.86	.65	.00	.06	47.01	.70	.63	.18	.96	.80	.73
5	.82	.87	.58	44.90	44.91	.11	.93	.61	.17	.95	.80	.73
6	43.82	43.87	44.42	45.14	44.81	46.90	47.93	44.58	44.16	43.94	43.80	43.73
7	.81	.91	.35	.50	.90	.45	.63	.55	.15	.94	.79	.72
8	.79	44.00	.41	.14	45.08	.39	.30	.53	.14	.93	.79	.72
9	.78	.25	.36	44.85	.07	.68	46.95	.51	.13	.93	.79	.72
10	.78	.22	.36	.78	.11	.62	.55	.49	.12	.92	.79	.71
11	43.78	44.09	44.54	44.66	45.12	46.40	46.17	44.47	44.11	43.91	43.78	43.71
12	.77	.02	.51	.69	.28	45.97	45.94	.45	.09	.91	.78	.71
13	.77	43.95	.47	.65	.35	.64	.79	.44	.08	.90	.77	.71
14	.77	.90	.41	45.61	.23	.46	.65	.41	.07	.90	.77	.71
15	.85	.87	.35	46.88	.15	.34	.51	.39	.06	.89	.76	.71
16	43.89	43.86	44.26	47.24	45.12	45.29	45.40	44.37	44.05	43.88	43.76	43.72
17	.99	.84	.22	.42	.19	.41	.30	.35	.05	.88	.76	.79
18	.88	.85	.37	46.79	.29	46.52	.23	.33	.04	.87	.76	.78
19	.84	.89	.51	45.84	.38	47.23	.18	.31	.03	.87	.77	.76
20	.93	.89	.54	.59	.80	.56	.13	.31	.03	.86	.77	.75
21	44.34	43.89	44.48	45.63	46.03	47.61	45.08	44.30	44.02	43.86	43.77	43.74
22	.11	.95	.42	.51	.10	.49	.14	.29	.02	.85	.77	.73
23	.19	.97	.40	.29	.39	46.84	.06	.27	.01	.85	.83	.73
24	.09	.94	.60	.09	.40	.22	44.98	.27	.01	.85	.89	.93
25	.03	.99	.88	44.94	.37	45.91	.91	.25	.01	.84	.89	.82
26	43.96	44.25	44.94	44.86	46.41	46.34	44.94	44.25	44.00	43.84	43.86	43.76
27	.92	.38	.81	.82	.62	.68	.96	.24	43.99	.84	.81	.73
28	.92	.48	.68	.79	.84	.88	.93	.23	.99	.83	.80	.73
29	.90	.47	.64	.92	.46	47.26	.87	.23	.99	.83	.77	.74
30	.87	.45	45.01	45.80	.30	46.93	.84	.23	.99	.83	-	.72
31	-	.58	-	46.45	.35	-	.79	-	.98	.83	-	.71.
Mean	43.90	44.04	44.54	45.42	45.67	46.53	45.87	44.41	44.08	43.89	43.79	43.74
Max.	44.34	44.58	45.01	47.42	46.84	47.61	47.93	44.75	44.23	43.97	43.89	43.93
Min.	43.77	43.84	44.22	44.65	44.81	45.29	44.79	44.23	43.98	43.83	43.76	43.71

WATER YEAR 1971 : Max. 47.93 m. Min. 43.71 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.76	6.08	34	43	119	130	139	33	15	8.08	5.12	4.00
2	5.60	6.24	29	48	97	144	127	31	14	7.84	4.96	4.00
3	5.60	5.76	30	50	65	149	171	29	13	7.84	4.96	3.84
4	5.28	5.76	29	44	47	168	221	28	13	7.84	4.80	3.68
5	5.12	5.92	26	39	40	175	240	27	13	7.60	4.80	3.68
6	5.12	5.92	20	51	35	160	240	26	13	7.36	4.80	3.68
7	4.96	6.64	18	69	39	129	215	25	12	7.36	4.64	3.52
8	4.64	8.80	20	51	48	125	190	24	12	7.12	4.64	3.52
9	4.48	15	18	37	47	145	164	23	12	7.12	4.64	3.52
10	4.48	14	18	34	49	140	136	22	12	6.88	4.64	3.36
11	4.48	11	24	29	50	126	111	22	11	6.64	4.48	3.36
12	4.32	9.28	23	30	58	97	96	21	11	6.64	4.48	3.36
13	4.32	7.60	22	29	61	77	86	21	11	6.40	4.32	3.36
14	4.32	6.40	20	76	55	67	78	20	10	6.40	4.32	3.36
15	5.60	5.92	18	159	51	61	70	19	10	6.24	4.16	3.36
16	6.24	5.76	15	185	50	58	64	19	10	6.08	4.16	3.52
17	8.56	5.44	14	199	53	64	59	18	10	6.08	4.16	4.64
18	6.08	5.60	19	152	58	134	55	17	9.76	5.92	4.16	4.48
19	5.44	6.24	23	89	63	184	53	17	9.52	5.92	4.32	4.16
20	7.12	6.24	24	74	87	210	50	17	9.52	5.76	4.32	4.00
21	18	6.24	22	77	101	214	48	17	9.28	5.76	4.32	3.84
22	11	7.60	20	70	106	204	51	16	9.28	5.60	4.32	3.68
23	13	8.08	20	58	125	156	47	16	9.04	5.60	5.28	3.68
24	11	7.36	27	48	126	114	43	16	9.04	5.60	6.24	7.12
25	9.52	8.56	38	41	124	94	40	15	9.04	5.44	6.24	5.12
26	7.84	15	41	37	126	122	41	15	8.80	5.44	5.76	4.16
27	6.88	19	35	36	140	145	42	15	8.56	5.44	4.96	3.68
28	6.88	22	30	34	156	159	40	15	8.56	5.28	4.80	3.68
29	6.40	22	28	40	130	186	38	15	8.56	5.28	4.32	3.84
30	5.92	21	44	87	119	162	36	15	8.56	5.28	–	3.52
31	–	26	–	129	122	–	34	–	8.32	5.28	–	3.36
Total	203.96	312.44	749.00	2,145	2,547	4,099	3,025	614	327.84	197.12	137.12	120.08
Mean	6.80	10.1	25.0	69.2	82.2	137	97.6	20.5	10.6	6.36	4.73	3.87
Max.	18	26	44	199	156	214	240	33	15	8.08	6.24	7.12
Min.	4.32	5.44	14	29	35	58	34	15	8.32	5.28	4.16	3.36
Runoff – mcm.	17.622	26.995	64.714	185.328	220.061	354.154	261.360	53.050	28.325	17.031	11.847	10.375

WATER YEAR 1971 : Max. 240 Min. 3.36 Mean 39.5 Annual Runoff 1,250.861 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	9.00	47.99	245				

NAN RIVER BASIN

Nan River at Ban Phra Fang, Uttaradit (N. 23)

Location: Lat. 17^0–38'–16" N., Long. 100^0–14'–02" E., on right bank about 1 kilometers upstream from Wat Phra Fang and 1.5 kilometers from Phra Fang – Ngiu Ngam road, Amphoe Muang, Uttaradit.

Drainage Area: 16,336 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 56.452 m. (M.S.L.)

Bench Mark: B.M.–H.S.

Location: About 9 meters from the top of vertical staff gage.
Elevation: + 69.923 m. (M.S.L.)

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

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

Period of Available Gage Records: 1963 to date.

Rating Operation:

Period of Rating: 1964–1973
Rated by Float: –
Rated by Current Meter: 1964–1973

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 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	57.34	57.34	58.60	57.55	59.75	60.33	59.74	57.63	57.18	57.76	57.44	57.46
2	.36	.39	.59	.70	.84	.38	60.06	.93	.20	.76	.45	.46
3	.34	.40	.28	.82	.78	.37	.58	.94	.16	.68	.45	.46
4	.33	.35	.14	.59	.74	.46	.27	.94	.15	.48	.46	.46
5	.31	.33	.10	.44	.71	.46	59.89	.93	.69	.48	.50	.46
6	57.30	57.38	57.31	57.39	59.72	60.33	59.72	57.93	57.77	57.48	57.41	57.46
7	.29	.93	.18	.36	.92	.28	.67	.69	.78	.48	.48	.45
8	.28	58.29	.16	.32	.86	.48	.99	.63	.78	.48	.46	58.01
9	.28	57.98	.18	.31	.80	61.04	.27	.63	.78	.47	.46	.16
10	.28	.87	.18	.28	58.78	60.58	57.66	.90	.78	.48	.45	57.09
11	57.27	57.72	57.23	57.26	58.57	60.43	57.50	57.91	57.83	57.45	57.46	56.92
12	.27	.61	.19	.24	59.80	.33	.41	.88	.79	.45	.46	57.07
13	.28	.57	.17	.26	.82	.27	.35	.88	.77	.45	.53	58.34
14	.30	.51	.16	58.99	.91	.33	.30	.71	.77	.46	.67	.38
15	.33	.47	.14	59.19	.89	.22	.25	.73	.77	.45	.46	.38
16	57.33	57.42	57.16	58.24	59.88	60.21	57.21	58.12	57.77	57.46	57.45	58.12
17	.29	.42	.36	57.79	.98	.23	.18	57.87	.77	.46	.46	57.08
18	.30	.43	.96	.74	60.03	.52	.16	.81	.70	.45	.46	56.92
19	.33	.43	.63	.78	.09	.97	.14	.82	.59	.45	.46	.95
20	.36	.46	.39	.59	.38	.85	.11	.89	.67	.45	.54	.91
21	57.39	57.47	57.33	57.41	60.86	60.74	57.09	57.89	57.47	57.44	57.72	57.24
22	.41	.44	.26	.31	61.73	.44	.08	.81	.48	.45	.51	58.07
23	.42	.55	.33	.25	.00	.32	.07	.19	.48	.53	.48	.17
24	.40	.70	.34	.24	60.82	.27	.08	.15	.48	.67	.47	57.52
25	.34	.73	.42	.91	.72	.23	.56	.19	.70	.45	.47	.48
26	57.31	57.82	57.54	58.79	60.52	60.22	57.65	57.19	57.76	57.45	57.47	57.47
27	.30	58.53	.48	59.14	.55	.21	.79	.19	.67	.45	.50	.47
28	.32	.78	.38	.23	.50	.27	.66	.19	.49	.46	.50	.47
29	.33	.58	.32	.42	.42	59.68	.59	.19	.50	.44	.46	.46
30	.31	58.19	.48	.65	.41	.58	.63	.18	.49	.53		.46
31		.16		.67	.33		.61		.49	.66		.47
Mean	57.32	57.62	57.50	57.96	60.10	60.36	58.10	57.66	57.60	57.50	57.48	57.54
Max.	57.42	58.29	58.60	59.67	61.73	61.04	60.58	58.12	57.83	57.76	57.72	58.38
Min.	57.27	57.33	57.14	57.24	58.57	59.58	57.07	57.15	57.19	57.44	57.41	56.91

WATER YEAR 1971 : Max. 61.73 m. Min. 56.91 m.

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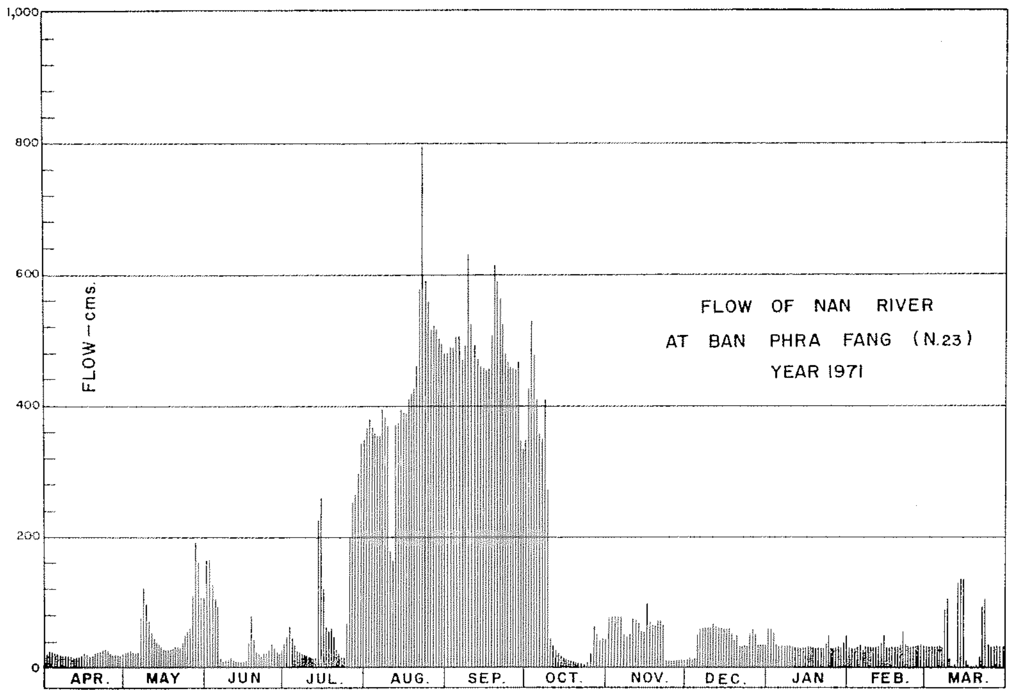


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	22	164	38	360	476	358	45	11	58	29	31
2	23	25	163	52	378	486	422	76	12	58	30	31
3	22	26	119	64	366	484	526	77	10	50	30	31
4	21	22	101	41	358	502	464	77	9.50	32	31	31
5	20	21	96	29	352	502	388	76	51	32	34	31
6	19	25	20	25	354	476	354	76	59	32	27	31
7	18	76	11	23	394	466	345	51	60	32	32	30
8	18	121	10	20	382	506	408	45	60	32	31	85
9	18	82	11	20	370	628	273	45	60	32	31	103
10	18	69	11	18	191	526	48	72	60	32	30	6.60
11	17	54	14	16	160	496	34	73	65	30	31	0.60
12	17	43	11	15	370	476	27	70	61	30	31	5.80
13	18	40	10	16	374	464	22	68	59	30	36	128
14	19	35	10	224	392	456	19	53	59	31	49	133
15	21	32	9.50	258	388	454	15	55	59	30	31	133
16	21	28	10	114	386	452	13	98	59	31	30	98
17	18	28	23	61	406	456	11	69	59	31	31	6.20
18	19	28	79	56	416	514	10	63	52	30	31	0.60
19	21	28	45	60	428	611	9.00	64	41	30	31	1.50
20	23	31	25	41	486	585	7.50	71	49	30	37	0.30
21	25	32	21	27	587	561	6.60	71	32	29	54	15
22	27	29	16	20	793	498	6.20	63	32	30	35	92
23	28	38	21	15	618	474	5.80	11	32	36	32	104
24	26	52	22	15	578	464	6.20	9.50	32	49	32	36
25	22	55	28	73	556	456	39	11	52	30	32	32
26	20	64	37	192	514	454	47	11	58	30	32	32
27	19	154	32	249	520	452	61	11	49	30	34	32
28	20	191	25	265	510	464	48	11	33	31	34	32
29	21	161	20	300	494	346	41	11	34	29	31	31
30	20	107	32	341	492	328	45	11	33	36	–	31
31	–	103	–	345	476	–	43	–	33	48	–	32
Total	621	1,822	1,196.50	3,033	13,449	14,513	4,102.30	1,544.50	1,375.50	1,071	959	1,386.60
Mean	20.7	58.8	39.9	97.8	434	484	132	51.5	44.4	34.5	33.1	44.7
Max.	28	121	164	345	793	628	526	98	65	58	54	133
Min.	17	21	9.50	15	160	328	5.80	9.50	9.50	29	27	0.30
Runoff – mcm.	53.654	157.421	103.378	262.051	1,161.994	1,253.923	354.439	133.445	118.843	92.534	82.858	119.802

WATER YEAR 1971 : Max. 793 Min. 0.30 Mean 123 Annual Runoff 3,894.342 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22	07.00	62.06	872				

NAN RIVER BASIN

Khlong Khek at Ban Wang Nok Aen, Phitsanulok (N. 24)

Location: Lat. 16°-50'-35" N., Long. 100°-31'-20" E., on right bank about 2 kilometers downstream from Sakunothayan Fall, Amphoe Wang Thong, Phitsanulok.

Drainage Area: 1,861 sq.km.

Type of Gage: Water-stage recorder began on July 1971.

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

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

Location: Near the gage site.
Elevation: + 12.845 m. (A.D.)

Gage Reading Frequency: 16 time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours on April 1 - July 8. Recording on July 9 - March 31.

Basis of Mean Daily Gage Height: Arithmetic mean of 16, 24 readings.

Period of Available Gage Records: 1965 to date.

Rating Operation:

Period of Rating: 1965-1974
Rated by Float: -
Rated by Current Meter: 1965-1974

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

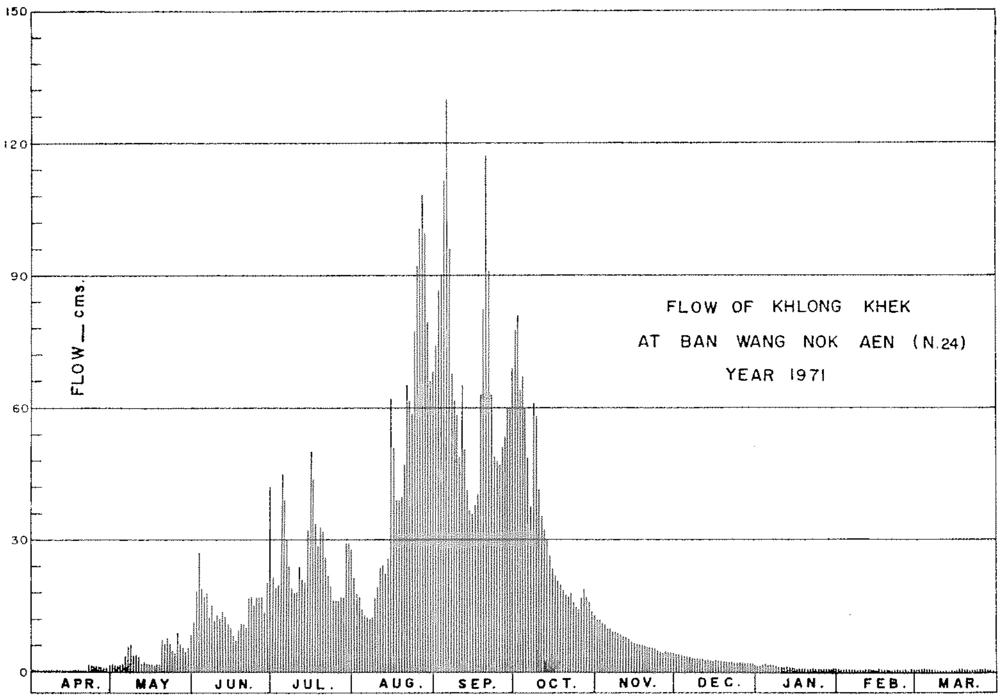
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.62	0.79	1.45	2.04	2.00	3.90	4.04	1.56	1.02	0.76	0.63	0.62
2	.61	.77	.81	1.92	1.86	4.25	.11	.51	.01	.76	.63	.63
3	.60	.75	2.29	.86	.80	.35	3.57	.48	.01	.79	.63	.63
4	.57	.77	1.92	2.64	.65	.96	.68	.46	0.98	.81	.63	.62
5	.59	.82	.80	.95	.57	5.47	.37	.43	.97	.76	.62	.62
6	0.61	0.98	1.88	2.50	1.53	4.48	3.00	1.41	0.96	0.77	0.61	0.60
7	.61	1.13	.54	.20	.53	3.69	2.78	.36	.95	.76	.62	.59
8	.61	.16	.71	1.93	.60	.50	3.50	.36	.94	.75	.60	.58
9	.58	.04	.48	.85	.79	.38	.40	.35	.93	.74	.59	.57
10	.56	1.00	.60	.84	.96	.06	2.83	.32	.92	.74	.60	.57
11	0.57	0.94	1.56	2.12	2.13	3.62	2.60	1.31	0.91	0.73	0.60	0.56
12	.59	.89	.64	.06	.16	.12	.50	.30	.90	.73	.60	.56
13	.58	.83	.58	1.85	.04	2.77	.42	.26	.89	.72	.60	.55
14	.57	.78	.48	2.21	.21	.64	.28	.23	.88	.72	.59	.54
15	.56	.77	.42	.66	3.53	.63	.15	.20	.88	.70	.56	.58
16	0.56	0.76	1.31	3.11	3.20	2.75	2.07	1.19	0.87	0.70	0.66	0.62
17	.56	.76	.24	2.59	2.73	.81	.02	.18	.86	.70	.62	.66
18	.58	.80	.38	.30	.73	3.52	1.96	.16	.85	.69	.60	.63
19	.61	.82	.50	.52	.77	4.21	.92	.17	.85	.69	.60	.59
20	.59	1.26	.46	.47	3.05	5.14	.86	.14	.85	.68	.60	.58
21	0.62	1.18	1.44	2.25	3.61	4.28	1.91	1.13	0.84	0.68	0.60	0.59
22	.77	.34	.82	.05	.50	3.46	.85	.13	.83	.68	.60	.58
23	.76	.19	.80	1.94	.39	.07	.77	.12	.82	.67	.60	.58
24	.75	.08	.70	.77	4.08	.06	.70	.09	.82	.67	.60	.58
25	.77	.04	.79	.74	.50	.03	.66	.06	.83	.66	.61	.58
26	0.74	1.38	1.71	1.77	4.69	3.16	1.79	1.05	0.83	0.65	0.62	0.57
27	.69	.18	.72	.81	.88	.26	.92	.05	.83	.65	.61	.57
28	.65	.12	.62	.82	.58	.45	.80	.05	.82	.67	.63	.57
29	.74	.07	2.00	2.37	3.98	.46	.74	.04	.83	.66	.62	.56
30	.78	.13	.85	.35	.64	.84	.66	.04	.81	.65		.55
31		.25	-	.26	.70	-	.58	-	.77	.64	-	.54
Mean	0.63	0.99	1.68	2.18	2.85	3.61	3.61	1.24	0.88	0.71	0.61	0.59
Max.	0.78	1.38	2.85	3.11	4.88	5.47	4.04	1.56	1.02	0.81	0.66	0.66
Min.	0.56	0.75	1.24	1.74	1.53	2.63	1.58	1.04	0.77	0.64	0.56	0.54

WATER YEAR 1971 : Max. 5.47 m. Min. 0.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	1.90	11	22	21	74	79	12	4.24	1.60	0.65	0.60
2	0.55	1.70	17	19	18	86	81	12	4.12	1.60	0.65	0.65
3	0.50	1.50	27	18	17	91	64	11	4.12	1.90	0.65	0.65
4	0.35	1.70	19	36	14	111	67	11	3.80	2.10	0.65	0.60
5	0.45	2.20	17	45	13	130	58	10	3.70	1.60	0.60	0.60
6	0.55	3.80	18	32	12	98	46	9.97	3.60	1.70	0.55	0.50
7	0.55	5.65	12	25	12	67	40	9.16	3.50	1.60	0.60	0.45
8	0.55	6.10	15	19	13	61	61	9.16	3.40	1.50	0.50	0.40
9	0.40	4.48	11	18	17	58	58	9.00	3.30	1.40	0.45	0.35
10	0.30	4.00	13	18	20	48	41	8.84	3.20	1.40	0.50	0.35
11	0.35	3.40	12	24	24	65	35	8.36	3.10	1.30	0.50	0.30
12	0.45	2.90	14	22	24	50	32	8.20	3.00	1.30	0.50	0.30
13	0.40	2.30	13	18	22	40	30	7.60	2.90	1.20	0.50	0.25
14	0.35	1.80	11	26	26	36	27	7.15	2.80	1.20	0.45	0.20
15	0.30	1.70	10	37	62	36	24	6.70	2.80	1.00	0.30	0.40
16	0.30	1.60	8.36	50	52	39	22	6.55	2.70	1.00	0.80	0.60
17	0.30	1.60	7.30	35	39	41	21	6.40	2.60	1.00	0.60	0.80
18	0.40	2.00	9.48	28	39	62	20	6.10	2.50	0.95	0.50	0.65
19	0.55	2.20	11	33	40	85	19	6.25	2.50	0.95	0.50	0.45
20	0.45	7.60	11	32	48	117	18	5.80	2.50	0.90	0.50	0.40
21	0.60	6.40	10	27	65	87	17	5.65	2.40	0.90	0.50	0.45
22	1.70	8.84	17	22	61	60	18	5.65	2.30	0.90	0.50	0.40
23	1.60	6.55	17	20	58	49	16	5.50	2.20	0.85	0.50	0.40
24	1.50	4.96	15	16	80	48	15	5.08	2.20	0.85	0.50	0.40
25	1.70	4.48	17	16	95	47	14	4.72	2.30	0.80	0.55	0.40
26	1.40	9.48	17	16	102	51	17	4.60	2.30	0.75	0.60	0.35
27	0.95	6.40	17	17	108	54	19	4.60	2.30	0.75	0.55	0.35
28	0.75	5.50	13	17	98	60	17	4.60	2.20	0.85	0.65	0.35
29	1.40	4.84	21	29	77	60	16	4.48	2.30	0.80	0.60	0.30
30	1.80	5.65	42	29	66	72	14	4.48	2.10	0.75	–	0.25
31	–	8.36	–	27	68	–	13	–	1.70	0.70	–	0.20
Total	22.05	131.59	453.14	793	1,411	1,983	1,019	220.60	88.68	36.10	15.90	13.35
Mean	0.73	4.24	15.1	25.6	45.5	66.1	32.9	7.35	2.86	1.16	0.55	0.43
Max.	1.80	9.48	42	50	108	130	81	12	4.24	2.10	0.80	0.80
Min.	0.30	1.50	7.30	16.	12	36	13	4.48	1.70	0.70	0.30	0.20
Runoff – mcm.	1.905	11.369	39.151	68.515	1,219.10	171.331	88.042	19.060	7.662	3.119	1.374	1.154

WATER YEAR 1971 : Max. 130 Min. 0.20 Mean 16.9 Annual Runoff 534.592 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.5,71	10.00	5.58	134				

NAN RIVER BASIN

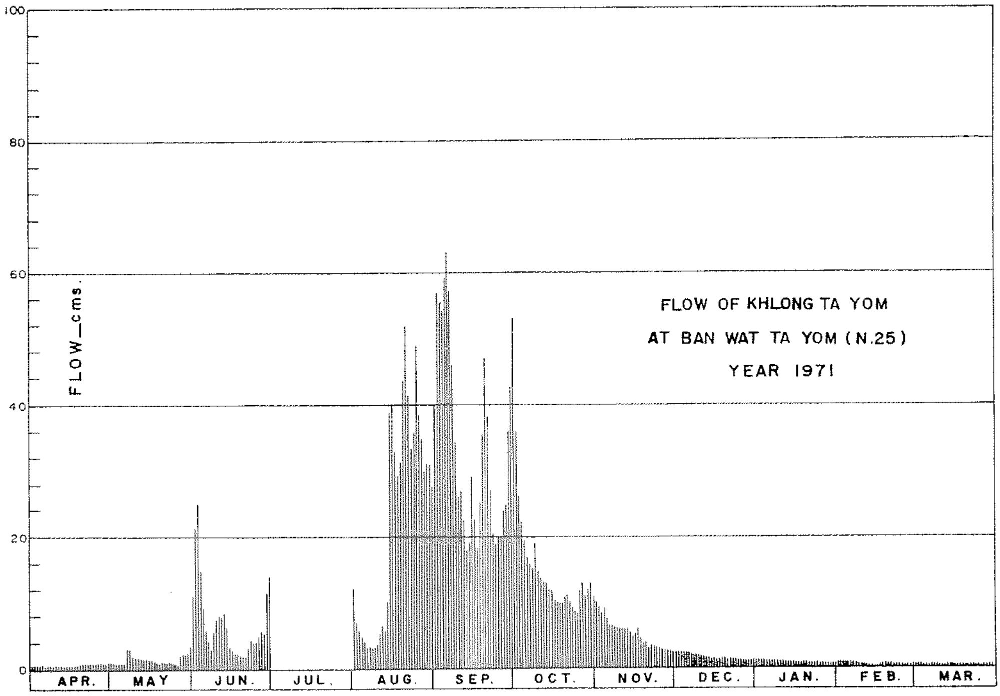
Khlong Ta Yom at Ban Wat Ta Yom, Phitsanulok (N. 25)

Location:	Lat. 16°-56'-10" N., Long 100°-26'-49" E., On left bank at the bridge on highway No.112 (Wang Thong-Phichit), Ban Wat Ta Yom, Amphoe Bang Krathum, Phitsanulok.
Drainage Area:	875 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.-H.S./RID
Location:	on left bank along the gage site.
Elevation:	+ 5.554 m (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings
Period of Available Gage Records:	1965-1973
Rating Operation:	
Period of Rating:	1965, 1967-1971
Rated by Float:	-
Rated by Current Meter:	1965, 1967-1971
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1965-68. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.
Remarks:	No gage height and discharge records on period Jul. 1-31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.82	0.89	2.03		2.17	4.07	4.85	2.00	1.18	0.96	0.90	0.80
2	.82	.87	3.02		1.69	.98	3.84	1.93	.18	.96	.89	.80
3	.82	.86	.20		.58	.96	.15	.85	.17	.96	.87	.79
4	.82	.84	2.40		.48	.91	.02	.93	.16	.95	.86	.79
5	.82	.85	1.94		.38	5.13	2.84	.77	.14	.95	.85	.79
6	0.82	0.85	1.55		1.31	5.14	2.62	1.65	1.14	0.95	0.85	0.78
7	.82	1.27	.34		.28	4.82	.50	.67	.13	.94	.84	.78
8	.82	.24	.25		.27	.12	.41	.65	.11	.94	.83	.78
9	.82	.10	.60		.27	3.74	.71	.63	.10	.93	.82	.77
10	.82	.02	.80		.37	.30	.47	.62	.09	.93	.81	.77
11	0.82	1.02	1.82		1.60	3.35	2.39	1.62	1.09	0.93	0.77	0.77
12	.81	.01	.78		.67	.00	.32	.60	.06	.92	.76	.77
13	.81	.01	.84		.58	2.68	.28	.64	.04	.92	.74	.77
14	.81	0.99	.56		2.06	.71	.22	.58	.02	.92	.73	.77
15	.81	.98	.24		4.16	3.50	.15	.49	.01	.91	.73	.77
16	0.81	0.97	1.20		4.20	2.99	2.10	1.55	1.01	0.91	0.75	0.77
17	.82	.93	.13		3.58	.70	.04	.64	.01	.91	.82	.77
18	.83	.92	.09		.52	3.33	.00	.42	.01	.90	.82	.77
19	.82	.87	.09		.74	.94	1.98	.36	.01	.90	.82	.76
20	.82	.92	.07		4.50	4.55	2.10	.38	.00	.89	.81	.76
21	0.85	0.88	1.06		4.80	4.08	2.14	1.26	0.99	0.89	0.81	0.76
22	.89	.86	.24		.18	3.38	.03	.30	.98	.88	.81	.76
23	.88	.86	.41		3.75	2.94	1.95	.28	.98	.88	.80	.76
24	.86	.87	.34		.94	.74	.88	.24	.98	.88	.80	.76
25	.85	.86	.38		4.65	.87	.86	.23	.97	.88	.79	.76
26	0.84	0.82	1.50		4.11	2.85	2.22	1.22	0.97	0.87	0.78	0.76
27-	.86	1.06	.58		3.94	3.16	.24	.22	.97	.87	.79	.76
28	.86	.14	.54		.61	.21	.14	.20	.96	.87	.80	.76
29	.88	.12	2.07		.63	4.07	.15	.19	.95	.86	.81	.77
30	.89	.17	.33		.65	.41	.26	.18	.95	.86	-	.77
31	-	.30	-		.41	-	.08	-	.96	.85	-	.77
Mean	0.83	0.97	1.64		2.87	3.72	2.41	1.51	1.04	0.90	0.80	0.77
Max.	0.89	1.30	3.20		4.80	5.14	4.85	2.00	1.18	0.96	0.90	0.80
Min.	0.81	0.82	1.06		1.27	2.68	1.86	1.18	0.95	0.85	0.73	0.76

WATER YEAR 1971 : Max. 5.14 m. Min. 0.73 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	0.96	10		12	38	53	10	2.67	1.33	1.00	0.60
2	0.68	0.88	22		6.75	57	34	9.23	2.67	1.33	0.96	0.60
3	0.68	0.84	25		5.72	56	24	8.40	2.60	1.33	0.88	0.56
4	0.68	0.76	14		4.84	54	22	9.23	2.54	1.27	0.84	0.56
5	0.68	0.80	9.34		4.06	62	20	7.58	2.41	1.27	0.80	0.56
6	0.68	0.80	5.45		3.57	63	17	6.66	2.41	1.27	0.80	0.53
7	0.68	3.29	3.78		3.36	52	16	6.56	2.34	1.22	0.76	0.53
8	0.68	3.08	3.15		3.29	39	15	6.37	2.21	1.22	0.72	0.53
9	0.68	2.15	5.90		3.29	32	19	6.18	2.15	1.16	0.68	0.49
10	0.68	1.67	7.90		3.99	26	15	6.09	2.09	1.16	0.64	0.49
11	0.68	1.67	8.10		5.90	27	14	6.09	2.09	1.16	0.49	0.49
12	0.64	1.61	7.69		6.56	22	13	5.90	1.91	1.11	0.46	0.49
13	0.64	1.55	8.30		5.72	18	13	6.28	1.79	1.11	0.39	0.49
14	0.64	1.49	5.54		11	19	12	5.72	1.67	1.11	0.35	0.49
15	0.64	1.44	3.08		39	29	12	4.92	1.61	1.05	0.35	0.49
16	0.64	1.38	2.80		40	22	11	5.45	1.61	1.05	0.42	0.49
17	0.68	1.16	2.34		30	18	10	6.28	1.61	1.05	0.68	0.49
18	0.72	1.11	2.09		29	26	10	4.36	1.61	1.00	0.68	0.49
19	0.68	0.88	2.09		32	36	10	3.92	1.61	1.00	0.68	0.46
20	0.68	1.11	1.97		46	47	11	4.06	1.55	0.96	0.64	0.46
21	0.80	0.92	1.91		52	38	11	3.22	1.49	0.96	0.64	0.46
22	0.96	0.84	3.08		40	27	10	3.50	1.44	0.92	0.64	0.46
23	0.92	0.84	4.28		33	21	9.45	3.36	1.44	0.92	0.60	0.46
24	0.84	0.88	3.78		36	19	8.70	3.08	1.44	0.92	0.60	0.46
25	0.80	0.84	4.06		49	20	8.50	3.01	1.38	0.92	0.56	0.46
26	0.76	0.68	5.00		39	20	12	2.94	1.38	0.88	0.53	0.46
27	0.84	1.91	5.72		36	24	13	2.94	1.38	0.88	0.56	0.46
28	0.84	2.41	5.36		30	25	11	2.80	1.33	0.88	0.60	0.46
29	0.92	2.28	11		31	38	12	2.73	1.27	0.84	0.60	0.49
30	0.96	2.60	14		31	44	13	2.67	1.27	0.84	–	0.49
31	–	3.50	–		27	–	11	–	1.33	0.80	–	0.49
Total	22.08	46.33	208.71		700.05	1,019	470.65	159.53	56.30	32.92	18.59	15.44
Mean	0.736	1.49	6.95	*12.0	22.6	34.0	15.2	5.32	1.82	1.06	0.641	0.498
Max.	0.96	3.50	25		52	63	53	10	2.67	1.33	1.00	0.60
Min.	0.64	0.68	1.91		3.29	18	8.50	2.67	1.27	0.80	0.35	0.46
Runoff - mcm.	1.908	4.003	18.032	*32.1	60.484	88.042	40.664	13.783	4.864	2.844	1.606	1.334

WATER YEAR 1971 : Max. 63 Min. 0.35 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.5,71	24.00	5.16	64				

NAN RIVER BASIN

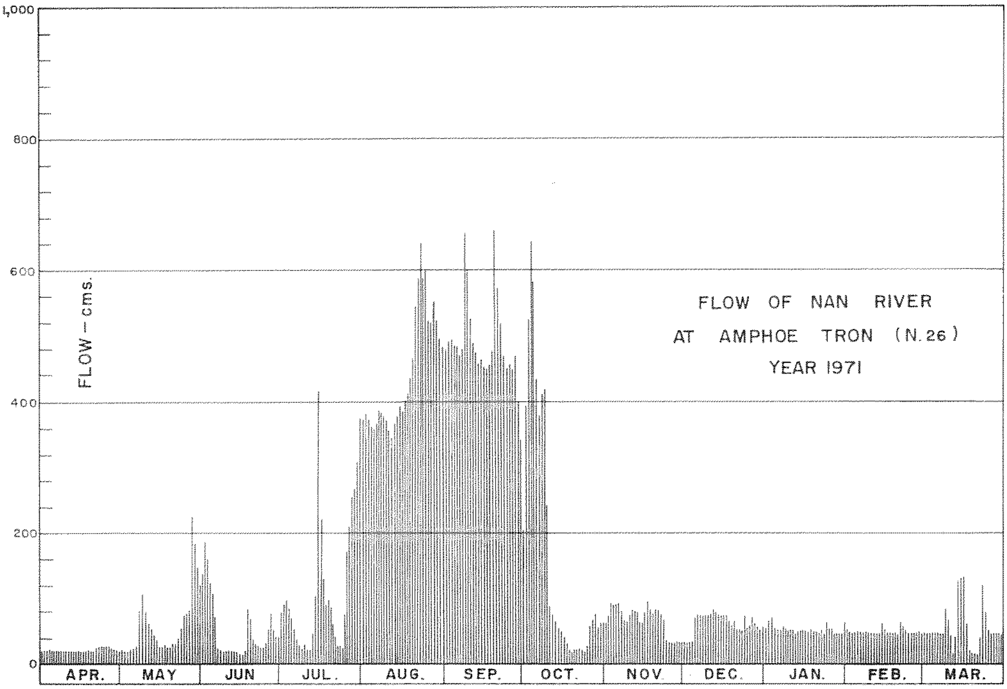
Nan River at Amphoe Tron, Uttaradit (N. 26)

Location:	Lat. 17°-29'-00" N., Long 100°-06'-58" E., On right bank about 500 meters upstream from Tron Railway Station, Opposite to district office of Amphoe Tron, Uttaradit.
Drainage Area:	17,350 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.-H.S. No.1
Location:	Infront of gage observer's house
Elevation:	+ 9.594 m (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings
Period of Available Gage Records:	1965 to date.
Rating Operation:	
Period of Rating:	1965 to date.
Rated by Float:	-
Rated by Current Meter:	1965 to date.
Stability of Channel Regimes:	Fairly stable, no shifting adjusmtnet for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow relcased by Sirikit Dam reservoir since June 5, 1971. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.63	0.62	1.88	1.32	3.36	3.93	2.36	1.13	0.63	0.94	0.90	0.85
2	.63	.58	2.23	.45	.42	.96	3.80	.29	.63	1.11	.85	.81
3	.62	.58	.03	.50	.39	4.02	4.28	.43	.61	.18	.85	.83
4	.61	.65	1.72	.34	.31	.01	.71	.43	.68	0.95	.84	.84
5	.61	.66	.59	.20	.27	3.96	.12	.42	1.17	.93	.87	.84
6	0.61	0.69	1.25	1.02	3.29	3.96	3.64	1.44	1.23	0.90	0.87	0.84
7	.59	.81	0.68	0.84	.44	.90	.40	.33	.24	.95	.84	.81
8	.59	1.34	.62	.77	.42	.97	.57	.20	.24	.98	.87	.83
9	.59	.58	.59	.67	.38	4.76	.61	.17	.24	.90	.84	1.32
10	.58	.36	.60	.78	.35	.48	1.84	.29	.23	.92	.86	.13
11	0.58	1.24	0.60	0.67	3.28	4.14	1.36	1.35	1.25	0.91	0.84	0.42
12	.58	.08	.60	.64	.18	3.96	.27	.32	.30	.82	.84	.29
13	.58	0.96	.58	1.00	.33	.90	.16	.32	.24	.90	.82	.86
14	.59	.87	.57	.54	.37	.83	.05	.15	.21	.89	1.06	1.76
15	.59	.80	.52	3.60	.47	.86	.03	.14	.20	.92	0.91	.78
16	0.59	0.69	0.48	2.84	3.43	3.80	0.93	1.34	1.21	0.90	0.85	1.80
17	.61	.70	.62	1.84	.54	.79	.81	.47	.21	.87	.84	.13
18	.62	.76	1.36	.42	.60	4.00	.66	.28	.08	.92	.86	0.42
19	.60	.70	.27	.48	.71	.41	.59	.25	.00	.88	.86	.29
20	.63	.76	0.94	.38	.92	4.78	.68	.34	.11	.88	.82	.27
21	0.69	0.80	0.80	1.09	4.27	4.45	0.66	1.30	0.92	0.85	1.07	0.24
22	.71	.78	.74	0.88	.34	.19	.65	.25	.91	.92	0.96	.71
23	.73	.91	.68	.74	.70	3.91	.64	.12	.90	.84	.84	1.70
24	.74	1.10	.70	.68	.46	.78	.56	0.67	1.23	1.08	.85	.21
25	.73	.25	.81	.69	.51	.81	.77	.63	0.94	0.93	.86	0.88
26	0.73	1.31	1.10	2.02	4.16	3.82	1.10	0.64	1.17	0.95	0.83	0.82
27	.67	.33	.28	.56	.13	.79	.19	.61	.16	.85	.84	.85
28	.65	2.50	.03	.70	.30	.38	.28	.65	.00	.84	.88	.85
29	.60	.25	0.90	.87	.12	.61	.07	.64	0.96	.84	.83	.84
30	.59	1.94	.94	3.11	.04	.24	.14	.64	.92	.84	-	.81
31	-	.69	-	.37	3.98	-	.14	-	.97	1.08	-	.80
Mean	0.63	1.03	0.99	1.55	3.72	4.01	1.77	1.14	1.05	0.92	0.87	0.89
Max.	0.74	2.50	2.23	3.60	4.70	4.78	4.71	1.47	1.30	1.18	1.07	1.80
Min.	0.59	0.58	0.48	0.64	3.18	3.24	0.56	0.61	0.61	0.82	0.82	0.24

WATER YEAR 1971 : Max. 4.78 m. Min. 0.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	21	142	80	371	476	204	61	33	54	51	47
2	21	19	187	93	380	482	450	77	33	66	47	45
3	21	19	162	98	376	494	546	91	32	71	47	46
4	20	22	122	82	362	492	642	91	36	54	47	47
5	20	23	107	68	355	482	514	90	71	53	49	47
6	20	24	73	50	358	482	421	92	75	51	49	47
7	19	33	24	35	385	470	378	81	76	54	47	45
8	29	82	21	30	382	484	409	68	76	57	49	46
9	19	106	19	23	375	654	416	65	76	51	47	83
10	19	84	20	31	369	590	137	77	75	52	48	67
11	19	72	20	23	356	518	84	83	77	52	47	21
12	19	56	20	22	338	482	75	80	81	45	47	16
13	19	45	19	48	365	470	64	80	76	51	45	48
14	19	38	18	102	373	456	53	63	74	50	62	127
15	19	32	16	414	391	462	51	62	73	52	52	130
16	19	24	13	278	383	450	42	84	74	51	47	132
17	20	25	21	137	403	448	33	95	74	49	47	67
18	21	29	84	90	414	490	23	79	64	52	48	21
19	20	25	75	96	434	574	19	77	58	50	48	16
20	21	29	43	86	474	658	24	84	66	50	45	15
21	24	32	32	57	544	583	23	81	52	47	63	14
22	26	31	28	38	559	528	22	77	52	52	55	38
23	27	41	24	28	640	472	22	67	51	47	47	120
24	28	58	25	24	585	446	18	35	75	64	47	74
25	27	73	33	24	596	452	30	33	54	53	48	50
26	27	79	58	160	522	454	58	33	71	54	46	45
27	23	81	76	234	516	448	67	32	70	47	47	47
28	22	224	51	256	550	466	76	34	58	47	50	47
29	20	189	40	283	514	416	55	33	55	47	46	47
30	19	149	43	326	498	349	62	33	52	47	–	45
31	–	119	–	373	486	–	62	–	56	64	–	44
Total	638	1,884	1,616	3,689	13,654	14,728	5,080	2,038	1,946	1,634	1,418	1,684
Mean	21.2	60.8	53.8	119	440	491	164	67.9	62.8	52.7	48.9	54.3
Max.	28	224	187	414	640	658	642	95	81	71	63	132
Min.	19	19	13	22	338	349	18	32	32	45	45	14
Runoff – mcm.	55.123	162.777	139.622	318.730	1,179.706	1,272.499	438.912	176.083	168.134	141.178	122.515	145.498

WATER YEAR 1971 : Max. 658 Min. 13 Mean 137 Annual Runoff 4,320.778 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	06.00	5.09	730				

NAN RIVER BASIN

Nan River at Amphoe Phrom Phiram, Phitsanulok (N. 27)

Location: Lat. 17°-01'-37" N., Long 100°-12'-12" E., On left bank about 200 meters downstream from Phrom Phiram railway station, Amphoe Phrom Phiram, Phitsanulok.

Drainage Area: 19,549 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 38.20 m (M.S.L.)

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

Location: About 10 meters from the top of vertical staff gage.
Elevation: + 48.244 m (M.S.L.)

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

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

Period of Available Gage Records: 1965 to date.

Rating Operation:

Period of Rating: 1965 to date.
Rated by Float: -
Rated by Current Meter: 1965 to date.

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

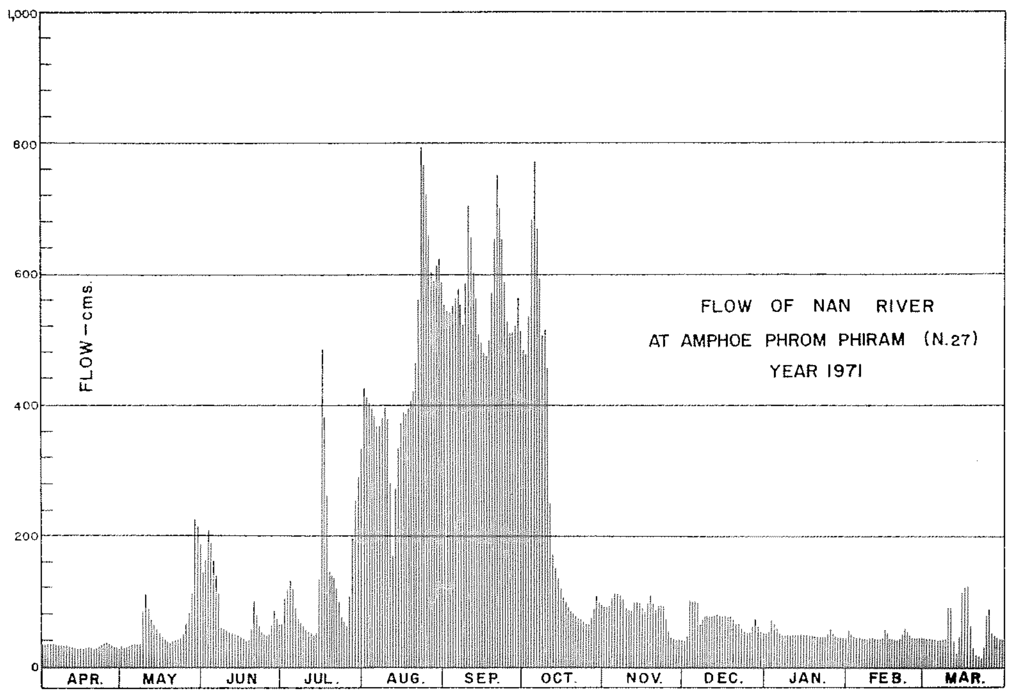
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow released by Sirikit Dam reservair since June 5, 1971. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	38.85	38.81	40.47	39.44	43.02	43.91	43.14	39.86	39.01	39.22	39.19	39.14
2	.83	.76	.73	.96	42.88	.84	.10	.83	.00	.22	.35	.09
3	.83	.78	41.17	40.17	.84	.86	.83	.90	.97	.44	.15	.07
4	.84	.82	.04	.35	.76	.94	44.88	40.13	.97	.56	.12	.07
5	.83	.88	40.68	.23	.63	44.02	45.33	.12	.94	.44	.11	.06
6	38.81	38.87	40.44	39.87	42.55	44.11	44.71	40.11	39.98	39.23	39.11	39.07
7	.79	.88	.12	.60	.56	43.88	.05	.10	.42	.20	.14	.07
8	.77	.89	39.31	.47	.77	.74	43.63	.03	.62	.15	.06	.07
9	.76	39.55	.28	.35	.78	44.14	.69	39.80	.65	.17	.09	.07
10	.75	40.08	.25	.30	.68	.93	.33	.75	.65	.17	.09	.84
11	38.74	39.85	39.25	39.31	42.28	44.55	41.63	39.76	39.65	39.17	39.09	39.82
12	.73	.68	.19	.23	40.75	.11	40.75	.75	.65	.16	.09	.00
13	.71	.48	.18	.15	42.06	43.81	.51	.76	.69	.16	.08	38.62
14	.70	.31	.12	.24	.53	.61	.30	.93	.66	.14	.08	.61
15	.72	.21	.11	40.21	.75	.48	.16	.83	.65	.15	.18	40.02
16	38.73	39.13	39.04	43.49	42.76	43.40	40.03	39.70	39.64	39.14	39.34	40.26
17	.76	.06	38.99	42.88	.72	.40	39.92	.82	.64	.14	.13	.28
18	.78	38.99	39.00	41.57	.83	.56	.83	40.09	.64	.14	.09	39.83
19	.76	.94	.26	40.63	.95	44.04	.76	39.86	.63	.14	.09	.01
20	.72	.94	40.00	.40	43.15	.83	.69	.76	.50	.14	.10	38.65
21	38.72	38.98	39.69	40.36	43.51	45.20	39.63	39.83	39.44	39.14	39.09	38.49
22	.78	39.04	.43	.05	44.26	44.83	.57	.88	.47	.13	.19	.43
23	.84	.05	.27	39.76	45.44	.37	.52	.87	.28	.13	.40	.49
24	.89	.12	.20	.54	.13	43.93	.48	.75	.26	.12	.21	39.76
25	.91	.36	.18	.43	44.70	.68	.44	.23	.25	.22	.13	.83
26	38.88	39.65	39.25	39.37	44.50	43.60	39.43	39.08	39.25	39.35	39.11	39.28
27	.87	.80	.45	40.59	.19	.66	.77	.06	.44	.16	.10	.14
28	.78	40.27	.80	41.44	.20	.78	.94	.07	.57	.12	.09	.12
29	.74	41.33	.61	.67	.41	44.04	40.05	.06	.45	.12	.12	.09
30	.74	.21	.45	.93	.43	43.67	39.90	.04	.26	.12	-	.07
31	-	40.79	-	42.44	43.98	-	.85	-	.23	.11	-	.06
Mean	38.78	36.18	39.63	40.34	43.26	44.00	41.25	39.74	39.53	39.19	39.14	39.21
Max.	38.91	41.33	41.17	43.49	45.44	45.20	45.33	40.13	39.98	39.56	39.40	40.28
Min.	38.70	38.76	38.99	39.15	40.75	43.40	39.43	39.04	39.00	39.11	39.06	38.43

WATER YEAR 1971 : Max. 45.44 m. Min. 38.43 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	30	28	142	63	422	542	437	91	38	50	48	45
2	29	26	165	99	403	533	432	89	37	50	57	42
3	29	27	207	116	398	535	531	94	100	63	45	41
4	30	29	194	131	388	547	691	112	100	70	44	41
5	29	32	161	121	373	559	767	112	97	63	43	40
6	28	31	139	92	363	572	664	111	100	50	43	41
7	27	32	112	73	364	538	563	110	62	48	45	41
8	27	32	55	65	389	519	503	104	74	45	40	41
9	26	70	53	57	391	577	512	87	76	47	42	41
10	26	108	51	54	379	699	462	83	76	47	42	90
11	25	91	51	55	331	638	256	84	76	47	42	88
12	25	79	48	50	167	572	167	98	76	46	42	37
13	24	65	47	45	304	528	145	99	79	46	41	20
14	23	55	44	51	361	500	127	97	77	45	41	19
15	24	49	43	119	387	482	115	89	76	45	47	104
16	25	44	39	484	388	471	104	80	76	45	57	124
17	26	40	37	403	383	471	96	88	76	45	44	125
18	27	37	37	250	397	493	89	109	76	45	42	89
19	26	34	52	156	412	562	84	91	75	45	42	38
20	24	34	102	135	438	683	79	84	66	45	42	21
21	24	36	79	132	486	745	75	89	63	45	42	15
22	27	39	62	106	595	683	71	93	65	44	48	12
23	30	40	53	84	787	611	68	92	53	44	60	15
24	32	44	48	69	733	545	65	83	52	44	49	84
25	33	58	47	62	662	510	63	50	51	50	44	89
26	32	76	51	59	631	499	62	41	51	57	43	53
27	31	87	63	152	584	507	85	40	63	46	42	45
28	27	124	87	235	586	524	97	41	71	44	42	44
29	25	223	74	261	617	562	106	40	63	44	44	42
30	25	211	63	289	620	509	94	39	52	44	–	41
31	–	171	–	350	553	–	91	–	50	43	–	40
Total	816	2,052	2,406	4,418	14,292	16,716	7,701	2,520	2,147	1,492	1,303	1,608
Mean	27.2	66.2	80.2	142	461	557	248	84.0	69.2	48.1	44.9	51.9
Max.	33	223	207	484	787	745	767	112	100	70	60	125
Min.	23	26	37	45	167	471	62	39	37	43	40	12
Runoff – mcm.	70.502	177.293	207.878	381.715	1,234.829	1,444.262	665.366	217.728	185.501	128.909	112.579	138.931

WATER YEAR 1971 : Max. 787 Min. 12 Mean 157 Annual Runoff 4,965.494 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.23	12.00	45.47	793				

NAN RIVER BASIN

Khlong Tron at Ban Nam Lai, Uttaradit (N.28)

Location: Lat. 17°-34'-10" N., Long. 100°-27'-04" E., on left bank at Ban Nam Lai, Amphoe Nam Pat, Uttaradit.

Drainage Area: 478 sq.km.

Type of Gage: Staff gage.

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

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

Location: Near the gage site.
Elevation: + 6.039 m. (A.D.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-1970
Rated by Float: -
Rated by Current Meter: 1967-1970

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

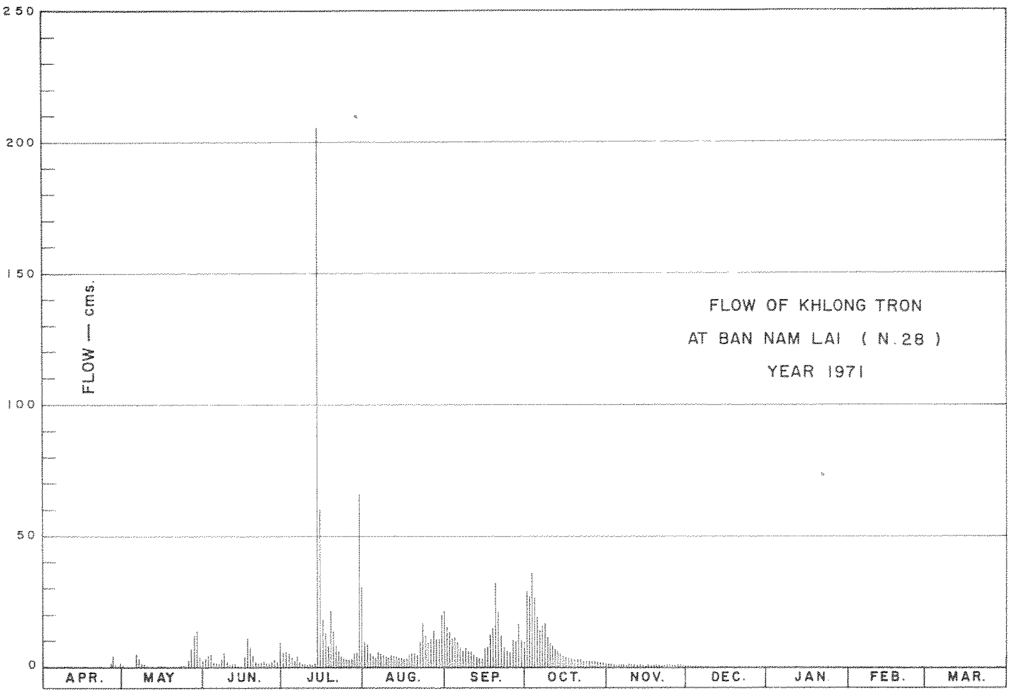
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1967-70. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.43	0.58	0.96	1.25	1.52	1.95	2.50	0.80	0.68	0.52	0.42	0.46
2	.40	.47	1.13	.34	.57	.78	.43	.77	.67	.52	.42	.46
3	.38	.45	.19	.33	.28	.69	.74	.76	.66	.51	.42	.46
4	.42	.52	0.84	.11	.15	.73	.44	.74	.64	.51	.42	.45
5	.39	.48	.75	0.95	.08	.59	.15	.74	.63	.50	.43	.43
6	0.38	1.21	0.79	1.15	1.32	1.45	1.85	0.73	0.62	0.50	0.45	0.42
7	.37	.00	.69	0.92	.28	.33	.97	.72	.62	.50	.45	.41
8	.37	0.77	1.22	.83	.20	.45	2.02	.72	.61	.49	.45	.43
9	.36	.79	0.92	.76	.13	.33	1.72	.71	.60	.49	.46	.42
10	.36	.60	.79	.72	.10	.23	.56	.69	.59	.48	.44	.42
11	0.36	0.52	0.73	0.70	1.21	1.19	1.46	0.70	0.58	0.47	0.45	0.42
12	.37	.49	.79	.70	.18	.10	.39	.70	.57	.47	.45	.41
13	.37	.45	.73	.75	.12	.05	.30	.69	.56	.47	.45	.44
14	.37	.42	.65	4.93	.09	0.98	.21	.67	.55	.46	.45	.43
15	.37	.51	.63	2.68	.06	1.40	.15	.67	.55	.47	.45	.40
16	0.37	0.46	0.63	2.07	1.05	1.43	1.10	0.66	0.55	0.47	0.49	0.43
17	.37	.41	1.65	1.83	.08	.71	.06	.67	.54	.46	.47	.42
18	.40	.38	.52	.48	.25	.93	.04	.69	.54	.46	.47	.41
19	.38	.37	.33	2.25	.28	2.59	.02	.68	.54	.45	.48	.41
20	.37	.37	0.93	1.83	.26	.44	.00	.68	.53	.46	.52	.42
21	0.37	0.45	0.85	1.54	1.16	1.87	1.03	0.69	0.53	0.46	0.57	0.41
22	.47	.59	.71	.35	.63	.60	0.94	.69	.52	.45	.58	.40
23	.52	.65	.85	.18	2.00	.41	.93	.69	.52	.44	.58	.43
24	.44	.53	.89	.08	1.76	.31	.91	.69	.52	.44	.53	.49
25	.41	.52	.78	.04	.59	.30	.90	.70	.51	.44	.51	.45
26	0.44	1.04	0.73	1.03	1.64	1.68	0.92	0.71	0.51	0.43	0.48	0.43
27	1.13	.51	.87	.01	.83	.60	.89	.71	.51	.44	.47	.44
28	0.60	.80	.99	.27	.73	2.02	.88	.70	.51	.44	.46	.40
29	.54	.88	.78	.30	.67	1.70	.86	.72	.51	.44	.45	.41
30	.86	1.07	1.63	3.47	2.15	.57	.85	.70	.51	.43	-	.40
31	-	0.95	-	1.93	.23	-	.84	-	.52	.42	-	.41
Mean	0.44	0.72	0.93	1.48	1.41	1.58	1.39	0.71	0.56	0.47	0.47	0.43
Max.	1.13	1.88	1.65	4.93	2.23	2.59	2.74	0.80	0.68	0.52	0.58	0.49
Min.	0.36	0.37	0.63	0.70	1.05	0.98	0.84	0.66	0.51	0.42	0.42	0.40

WATER YEAR 1971 : Max. 4.93 m. Min. 0.36 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.54	2.88	5.60	8.88	16	29	1.70	1.00	0.36	0.14	0.22
2	0.10	0.24	4.40	6.58	9.58	14	27	1.52	0.95	0.36	0.14	0.22
3	0.08	0.20	5.00	6.46	5.90	11	36	1.46	0.90	0.33	0.14	0.22
4	0.14	0.36	1.98	4.20	4.60	12	27	1.34	0.80	0.33	0.14	0.20
5	0.09	0.26	1.40	2.80	3.92	9.86	20	1.34	0.75	0.30	0.16	0.16
6	0.08	5.20	1.64	4.60	6.34	7.95	14	1.28	0.70	0.30	0.20	0.14
7	0.07	3.20	1.05	2.56	5.90	6.46	16	1.22	0.70	0.30	0.20	0.12
8	0.07	1.52	5.30	1.91	5.10	7.95	17	1.22	0.65	0.28	0.20	0.16
9	0.06	1.64	2.56	1.46	4.40	6.46	12	1.16	0.60	0.28	0.22	0.14
10	0.06	0.60	1.64	1.22	4.10	6.46	9.44	1.05	0.57	0.26	0.18	0.14
11	0.06	0.36	1.28	1.10	5.20	5.00	8.08	1.10	0.54	0.24	0.20	0.14
12	0.07	0.28	1.64	1.10	4.90	4.10	7.18	1.10	0.51	0.24	0.20	0.12
13	0.07	0.20	1.28	1.40	4.30	3.65	6.10	1.05	0.48	0.24	0.20	0.18
14	0.07	0.14	0.85	205	4.01	3.04	5.20	0.95	0.45	0.22	0.20	0.16
15	0.07	0.33	0.75	34	3.74	7.30	4.60	0.95	0.45	0.24	0.20	0.10
16	0.07	0.22	0.75	18	3.65	7.69	4.10	0.90	0.45	0.24	0.28	0.16
17	0.07	0.12	11	14	3.92	12	3.74	0.95	0.42	0.22	0.24	0.14
18	0.10	0.08	8.88	8.34	5.60	15	3.56	1.05	0.42	0.22	0.24	0.12
19	0.08	0.07	6.46	22	5.90	32	3.38	1.00	0.42	0.20	0.26	0.12
20	0.07	0.07	2.64	14	5.70	27	3.20	1.00	0.39	0.22	0.36	0.14
21	0.07	0.20	2.05	9.16	4.70	14	3.47	1.05	0.39	0.22	0.51	0.12
22	0.24	0.57	1.16	6.70	10	10	2.72	1.05	0.36	0.20	0.54	0.10
23	0.36	0.85	2.05	4.90	17	7.43	2.64	1.05	0.36	0.18	0.54	0.16
24	0.18	0.39	2.33	3.92	12	6.22	2.48	1.05	0.36	0.18	0.39	0.28
25	0.12	0.36	1.58	3.56	9.86	6.10	2.40	1.10	0.33	0.18	0.33	0.20
26	0.18	3.56	1.28	3.47	11	11	2.56	1.16	0.33	0.16	0.26	0.16
27	4.40	8.74	2.19	3.29	14	10	2.33	1.16	0.33	0.18	0.24	0.18
28	0.60	13	3.12	5.80	11	17	2.26	1.10	0.33	0.18	0.22	0.10
29	0.42	14	1.58	6.10	11	11	2.12	1.22	0.33	0.18	0.20	0.12
30	2.12	3.83	10	66	20	9.58	2.05	1.10	0.33	0.16	–	0.10
31	–	2.80	–	15	22	–	1.98	–	0.36	0.14	–	0.12
Total	10.33	63.93	90.72	484.23	248.20	317.25	283.59	34.38	15.96	7.34	7.33	4.74
Mean	0.34	2.06	3.02	15.6	8.01	10.6	9.15	1.15	0.51	0.24	0.25	0.15
Max.	4.40	14	11	205	22	32	36	1.70	1.00	0.36	0.54	0.28
Min.	0.06	0.07	0.75	1.10	3.65	3.04	1.98	0.90	0.33	0.14	0.14	0.10
Runoff – mcm.	0.893	5.524	7.838	41.837	21.444	27.410	24.502	2.970	1.379	0.634	0.633	0.410

WATER YEAR 1971 : Max. 205 Min. 0.06 Mean 4.28 Annual Runoff 135,475 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 4	12.00	6.40	329				

Khlong Tron at Ban Na Klam Bridge, Uttaradit (N. 28A)

Location: Lat. 17°-35'-00" N., Long. 100°-29'-30" E., on left bank at Ban Na Klam Bridge about 7 kilometers upstream from station N28, Amphoe Nam Pat, Uttaradit.

Drainage Area: 368 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 18.012 m. (A.D.)

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

Location: near the gage site.
Elevation: + 23.769 m. (A.D.)

Gage Reading Frequency: 15-time daily readings at 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 15 readings.

Period of Available Gage Records: 1971 to date.

Rating Operation:

Period of Rating: 1971 to date.
Rated by Float: -
Rated by Current Meter: 1971 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: Stream gaging began on May 1, 1971. Flow on period April 1-30, December 1 - January 31 obtained by stage correlation from Station N28 about 7,000 meters downstream. On dry season gage height effected by temporary weir about 100 meters downstream. Hourly gage height and Discharge on July 13-15.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.41	1.61	1.78	1.80	1.95	2.17	2.62	1.65	1.56	1.46	1.37	1.50
2	.40	.48	.78	.91	.97	.10	.46	.64	.55	.46	.43	.50
3	.39	.46	.86	.89	.84	.05	.64	.63	.55	.46	.40	.37
4	.41	.46	.66	.77	.77	.10	.47	.61	.53	.46	.36	.40
5	.39	.47	.64	.69	.72	.02	.31	.61	.53	.45	.38	.48
6	1.39	1.95	1.64	1.81	1.87	1.95	2.19	1.60	1.52	1.45	1.49	1.36
7	.38	.75	.65	.68	.87	.89	.32	.60	.52	.45	.46	.37
8	.38	.67	.94	.62	.82	2.02	.27	.60	.52	.44	.37	.37
9	.38	.75	.72	.60	.78	1.87	.12	.59	.51	.44	.36	.39
10	.38	.56	.63	.57	.75	.84	.04	.58	.50	.44	.37	.37
11	1.38	1.48	1.60	1.57	1.85	1.82	1.98	1.59	1.50	1.43	1.35	1.36
12	.38	.44	.65	.55	.82	.77	.94	.61	.49	.43	.35	.36
13	.38	.42	.59	.75	.75	.73	.89	.62	.49	.43	.35	.35
14	.38	.45	.55	3.73	.72	.71	.84	.61	.48	.43	.35	.31
15	.38	.46	.55	2.52	.69	2.03	.82	.61	.48	.43	.35	.33
16	1.38	1.43	1.63	2.18	1.66	1.97	1.79	1.60	1.48	1.43	1.43	1.35
17	.38	.41	2.21	.00	.67	2.10	.76	.60	.47	.43	.34	.44
18	.40	.42	1.97	.02	.80	.35	.75	.60	.47	.43	[illegible]	.49
19	.39	.37	.88	.32	.84	.78	.73	.60	.47	.42	.40	.47
20	.38	.37	.69	.11	.80	.47	.71	.60	.47	.43	.50	.31
21	1.38	1.49	1.60	1.99	1.78	2.16	1.73	1.60	1.47	1.43	1.39	1.46
22	.43	.65	.57	.90	2.03	.06	.70	.61	.46	.42	.40	.36
23	.46	.56	.70	.82	.25	1.93	.73	.60	.46	.42	.37	.37
24	.42	.53	.66	.76	.15	.88	.72	.60	.46	.42	.35	.37
25	.40	.50	.61	.74	.01	.90	.71	.63	.46	.42	.35	.33
26	1.42	1.86	1.57	1.72	2.02	1.99	1.70	1.58	1.46	1.41	1.33	1.34
27	.81	.90	.59	.69	.09	.97	.69	.57	.46	.42	.38	.32
28	.51	.63	.60	.71	.09	2.16	.68	.56	.46	.42	.48	.33
29	.47	.71	.56	.93	.06	.06	.69	.57	.46	.42	.49	.32
30	.66	.76	.94	2.90	.35	1.98	.68	.55	.46	.41	-	.32
31	-	.75	-	.11	.31	-	.67	-	.46	.41	-	.30
Mean	1.42	1.57	1.70	1.95	1.90	2.03	1.95	1.60	1.49	1.43	1.39	1.37
Max.	1.81	1.95	2.21	3.73	2.35	2.78	2.64	1.65	1.56	1.46	1.50	1.50
Min.	1.38	1.37	1.55	1.55	1.66	1.71	1.67	1.55	1.46	1.41	1.33	1.30

WATER YEAR 1971 : Max. 3.73 m. Min. 1.30 m.

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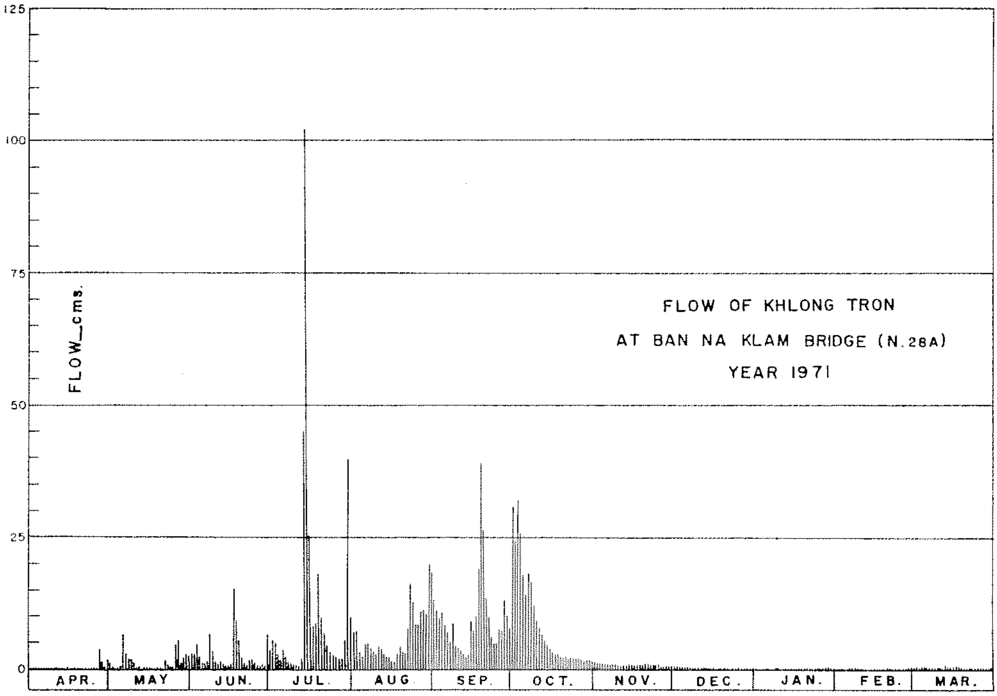


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.18	1.14	3.16	3.45	6.80	13	31	1.52	0.81	0.33	0.10	0.45
2	0.15	0.39	3.16	5.68	7.36	11	24	1.43	0.75	0.33	0.24	0.45
3	0.13	0.33	4.62	5.20	4.23	9.70	32	1.33	0.75	0.33	0.15	0.10
4	0.18	0.33	1.62	2.14	3.01	11	24	1.14	0.63	0.33	0.09	0.15
5	0.13	0.36	1.43	1.90	2.29	8.80	18	1.14	0.63	0.30	0.12	0.39
6	0.13	6.80	1.43	3.64	4.81	6.80	14	1.05	0.57	0.30	0.42	0.09
7	0.12	2.72	1.52	1.81	4.81	5.20	18	1.05	0.57	0.30	0.33	0.10
8	0.12	1.71	6.52	1.24	3.84	8.80	17	1.05	0.57	0.27	0.10	0.10
9	0.12	2.72	2.29	1.05	3.16	4.81	12	0.99	0.51	0.27	0.09	0.13
10	0.12	0.81	1.33	0.87	2.72	4.23	9.40	0.93	0.45	0.27	0.10	0.10
11	0.12	0.39	1.05	0.87	4.42	3.84	7.64	0.99	0.45	0.24	0.07	0.09
12	0.12	0.27	1.52	0.75	3.84	3.01	6.52	1.14	0.42	0.24	0.07	0.09
13	0.12	0.21	0.99	* 2.75	2.72	2.43	5.20	1.24	0.42	0.24	0.07	0.07
14	0.12	0.30	0.75	* 102	2.29	2.14	4.23	1.14	0.39	0.24	0.07	0.01
15	0.12	0.33	0.75	* 28	1.90	9.10	3.84	1.14	0.39	0.24	0.07	0.04
16	0.12	0.24	1.33	14	1.62	7.36	3.30	1.05	0.39	0.24	0.24	0.07
17	0.12	0.18	15	8.20	1.71	11	2.87	1.05	0.36	0.24	0.06	0.27
18	0.15	0.21	7.36	8.80	3.45	20	2.72	1.05	0.36	0.24	0.06	0.42
19	0.13	0.10	5.01	18	4.23	39	2.43	1.05	0.36	0.21	0.15	0.27
20	0.12	0.10	1.90	11	3.45	24	2.14	1.05	0.36	0.24	0.45	0.01
21	0.12	0.42	1.05	7.92	3.16	13	2.43	1.05	0.36	0.24	0.13	0.33
22	0.24	1.52	0.87	5.40	9.10	10	2.00	1.14	0.33	0.21	0.15	0.09
23	0.33	0.81	2.00	3.84	16	6.24	2.43	1.05	0.33	0.21	0.10	0.10
24	0.21	0.63	1.62	2.87	13	5.01	2.29	1.05	0.33	0.21	0.07	0.10
25	0.15	0.45	1.14	2.58	8.50	5.40	2.14	1.33	0.33	0.21	0.07	0.04
26	0.21	4.62	0.87	2.29	8.80	7.92	2.00	0.93	0.33	0.18	0.04	0.06
27	3.64	5.40	0.99	1.90	11	7.36	1.90	0.87	0.33	0.21	0.12	0.03
28	0.51	1.33	1.05	2.14	11	13	1.81	0.81	0.33	0.21	0.39	0.04
29	0.36	2.14	0.81	6.24	10	10	1.90	0.87	0.33	0.21	0.42	0.03
30	1.62	2.87	6.52	45	20	7.64	1.81	0.75	0.33	0.18	–	0.03
31	–	2.72	–	11	18	–	1.71	–	0.33	0.18	–	0.00
Total	10.01	42.55	79.66	312.53	201.22	290.79	262.71	32.38	13.80	7.65	4.54	4.285
Mean	0.33	1.37	2.65	10.1	6.49	9.69	8.47	1.08	0.44	0.25	0.16	0.14
Max.	3.64	6.80	15	102	20	39	32	1.52	0.81	0.33	0.45	0.45
Min.	0.12	0.10	0.75	0.75	1.62	2.14	1.71	0.75	0.33	0.18	0.040	0.00
Runoff - mcm.	0.865	3.676	6.883	27.002	17.385	25.124	22.698	2.798	1.192	0.661	0.392	0.370

WATER YEAR 1971 : Max. 102 Min. 0.00 Mean 3.45 Annual Runoff 109.048 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.14	03.00	5.20	226				

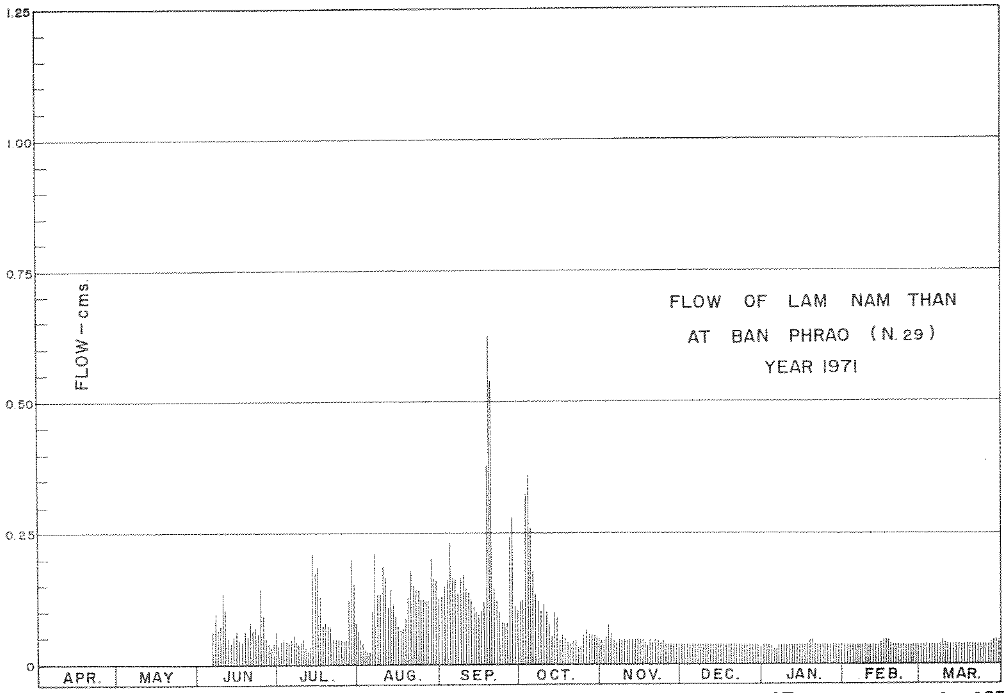
Lam Nam Than at Ban Phrao, Phitsanulok (N. 29)

Location:	Lat. 17°-08'-05" N., Long. 100°-46'-42" E., on left bank at Ban Phrao about 800 meters downstream from purpose damsite, Amphoe Nakhon Thai, Phitsanulok.
Drainage Area:	6 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	About 30 meters from the top of vertical staff gage.
Elevation:	+ 3.650 m. (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1971 to date.
Rating Operation:	
Period of Rating:	1971-1972
Rated by Float:	-
Rated by Current Meter:	1971-1972
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.
Remarks:	Stream gaging station began June 6, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.42	0.44	0.53	0.56	0.49	0.48	0.48	0.48	0.48
2				.44	.44	.55	.56	.49	.48	.48	.48	.48
3				.44	.42	.56	.73	.52	.48	.48	.48	.48
4				.43	.41	.62	.70	.51	.48	.48	.48	.48
5				.43	.41	.56	.63	.49	.48	.47	.48	.48
6			0.46	0.44	0.48	0.56	0.58	0.48	0.48	0.47	0.48	0.48
7			.50	.45	.61	.53	.56	.49	.48	.48	.48	.48
8			.46	.43	.53	.56	.55	.49	.48	.48	.48	.48
9			.48	.43	.53	.57	.54	.49	.48	.48	.48	.49
10			.53	.45	.58	.54	.55	.49	.48	.48	.48	.48
11			0.44	0.42	0.55	0.54	0.54	0.49	0.48	0.48	0.48	0.48
12			.44	.41	.51	.52	.52	.49	.48	.48	.48	.48
13			.43	.42	.54	.51	.49	.49	.48	.48	.48	.48
14			.45	.61	.49	.50	.54	.49	.48	.48	.48	.48
15			.46	.57	.49	* .50	.53	.49	.48	.48	.49	.48
16			0.44	0.58	0.46	*0.51	0.43	0.49	0.48	0.48	0.49	0.48
17			.43	.51	.46	* .51	.50	.48	.48	.48	.49	.48
18			.46	.47	.48	* .74	.49	.48	.48	.48	.48	.48
19			.44	.48	.52	* .81	.48	.49	.48	.49	.48	.48
20			.48	.47	.58	* .65	.48	.48	.48	.49	.48	.48
21			0.46	0.47	0.55	*0.58	0.49	0.49	0.48	0.48	0.47	0.48
22			.47	.44	.54	* .55	.49	.49	.48	.48	.48	.48
23			.45	.44	.54	.54	.47	.48	.48	.48	.48	.48
24			.54	.44	.52	.52	.48	.49	.48	.48	.48	.48
25			.49	.44	.52	.52	.51	.48	.48	.48	.48	.48
26			0.44	0.43	0.52	0.52	0.51	0.48	0.48	0.48	0.48	0.48
27			.44	.43	.52	.68	.50	.48	.48	.48	.48	.48
28			.42	.53	.60	.60	.50	.48	.48	.48	.48	.49
29			.43	.60	.56	.55	.50	.48	.48	.48	.48	.49
30			.46	.49	.56	.54	.49	.48	.48	.48		.49
31				.47	.52		.49		.47	.48		.49
Mean				0.47	0.51	0.57	0.53	0.49	0.48	0.48	0.48	0.48
Max.			0.54	0.61	0.61	0.81	0.73	0.52	0.48	0.49	0.49	0.49
Min.			0.42	0.41	0.41	0.50	0.47	0.48	0.47	0.47	0.47	0.48

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.029	0.045	0.13	0.12	0.046	0.037	0.037	0.037	0.037
2				0.045	0.045	0.15	0.12	0.046	0.037	0.037	0.037	0.037
3				0.045	0.029	0.16	0.36	0.076	0.037	0.037	0.037	0.037
4				0.037	0.020	0.23	0.31	0.065	0.037	0.037	0.037	0.037
5				0.037	0.020	0.16	0.20	0.046	0.037	0.027	0.037	0.037
6			0.062	0.045	0.078	0.16	0.14	0.037	0.037	0.027	0.037	0.037
7			0.095	0.053	0.21	0.13	0.12	0.046	0.037	0.037	0.037	0.037
8			0.062	0.037	0.13	0.16	0.11	0.046	0.037	0.037	0.037	0.037
9			0.078	0.037	0.13	0.17	0.097	0.046	0.037	0.037	0.037	0.046
10			0.13	0.053	0.18	0.14	0.11	0.046	0.037	0.037	0.037	0.037
11			0.045	0.029	0.15	0.14	0.097	0.046	0.037	0.037	0.037	0.037
12			0.045	0.020	0.10	0.12	0.076	0.046	0.037	0.037	0.037	0.037
13			0.037	0.029	0.14	0.10	0.046	0.046	0.037	0.037	0.037	0.037
14			0.053	0.21	0.087	0.095	0.097	0.046	0.037	0.037	0.037	0.037
15			0.062	0.17	0.087	* 0.097	0.086	0.046	0.037	0.037	0.046	0.037
16			0.045	0.18	0.062	* 0.10	0.037	0.046	0.037	0.037	0.046	0.037
17			0.037	0.10	0.062	* 0.11	0.055	0.037	0.037	0.037	0.046	0.037
18			0.062	0.070	0.078	* 0.41	0.046	0.037	0.037	0.037	0.037	0.037
19			0.045	0.078	0.12	* 0.55	0.037	0.046	0.037	0.046	0.037	0.037
20			0.078	0.070	0.18	* 0.23	0.037	0.037	0.037	0.046	0.037	0.037
21			0.062	0.070	0.15	* 0.14	0.046	0.046	0.037	0.037	0.027	0.037
22			0.070	0.045	0.14	* 0.11	0.046	0.046	0.037	0.037	0.037	0.037
23			0.053	0.045	0.14	0.097	0.027	0.037	0.037	0.037	0.037	0.037
24			0.14	0.045	0.12	0.076	0.037	0.046	0.037	0.037	0.037	0.037
25			0.087	0.045	0.12	0.076	0.065	0.037	0.037	0.037	0.037	0.037
26			0.045	0.037	0.12	0.076	0.065	0.037	0.037	0.037	0.037	0.037
27			0.045	0.037	0.12	0.28	0.055	0.037	0.037	0.037	0.037	0.037
28			0.029	0.13	0.20	0.16	0.055	0.037	0.037	0.037	0.037	0.046
29			0.037	0.20	0.16	0.11	0.055	0.037	0.037	0.037	0.037	0.046
30			0.062	0.087	0.16	0.097	0.046	0.037	0.037	0.037	–	0.046
31			–	0.070	0.12	–	0.046	–	0.027	0.037	–	0.046
Total				2.185	3.503	4.762	2.844	1.330	1.137	1.145	1.090	1.192
Mean				0.070	0.11	0.16	0.092	0.044	0.037	0.037	0.037	0.038
Max.			0.14	0.21	0.21	0.55	0.36	0.076	0.037	0.046	0.046	0.048
Min.			0.029	0.020	0.020	0.076	0.027	0.037	0.027	0.027	0.027	0.037
Runoff - mcm.				0.189	0.303	0.411	0.246	0.115	0.098	0.099	0.094	0.103

WATER YEAR 1971 : Max. 0.55 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	09.00	0.96	0.82				

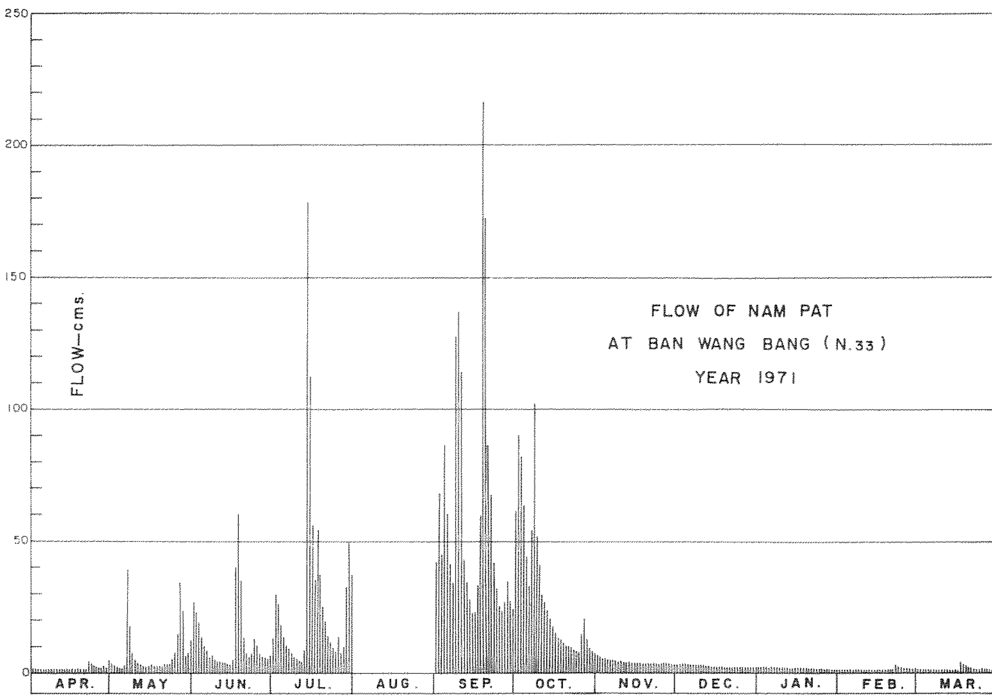
Nam Pat River Ban Wang Bang, Uttaradit (N. 33)

Location:	Lat. 17°-43'-05" N., Long. 100°-34'-32" E., on right bank about 4.5 kilometers upstream from confluence with Nan River at Ban Wang Bang, Tambon Saen To, Amphoe Nam Pat, Uttaradit.
Drainage Area:	2,463 sq.km.
Type of Gage:	Water stage recorder.
Zero Gage at Bottom at:	+ 79.00 m. (M.S.L.)
Bench Mark:	B.M. - R.I.D.
Location:	Near the gage site.
Elevation:	+ 87.268 m. (M.S.L.)
Gage Reading Frequency:	Recording for June - March. 5-time daily readings for April - May at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 and 24 hourly readings.
Period of Available Gage Records:	1966 to date.
Rating Operation:	
Period of Rating:	1966 to date.
Rated by Float:	-
Rated by Current Meter:	1966 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.
Remarks:	No gage height and discharge records on periods August 1 - 31.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	79.67	79.86	80.91	80.53		81.24	81.76	80.13	79.92	79.76	79.68	79.70
2	.66	.77	.72	81.00		.65	.92	.10	.91	.76	.67	.69
3	.66	.73	.65	80.87		.26	.81	.07	.93	.76	.67	.67
4	.66	.71	.35	.53		.87	.45	.06	.91	.75	.67	.66
5	.65	.70	.31	.45		.44	.26	.05	.90	.76	.66	.66
6	79.65	79.92	80.18	80.32		81.20	81.02	80.03	79.89	79.76	79.67	79.65
7	.64	81.18	.07	.23		.03	.24	.01	.88	.75	.68	.65
8	.64	80.42	.12	.16		82.28	82.06	.00	.87	.75	.67	.65
9	.64	.10	.00	.08		.39	81.42	79.99	.85	.75	.67	.66
10	.63	79.98	79.98	.03		.63	.13	.97	.85	.74	.66	.65
11	79.63	79.88	79.95	79.99		81.29	80.96	79.96	79.84	79.74	79.66	79.64
12	.63	.83	.93	.96		.10	.88	.95	.82	.74	.65	.64
13	.64	.80	.88	80.31		80.93	.79	.94	.81	.73	.65	.64
14	.69	.78	.85	82.89		.80	.69	.92	.80	.73	.65	.64
15	.66	.81	.84	.15		.76	.58	.92	.80	.73	.65	.64
16	79.65	79.85	80.06	81.48		80.86	80.50	79.92	79.80	79.72	79.65	79.63
17	.69	.77	81.27	.11		81.28	.44	.91	.77	.72	.65	.97
18	.69	.77	.55	.43		82.14	.41	.91	.77	.72	.65	.92
19	.67	.74	80.70	.03		83.03	.37	.91	.77	.72	.65	.80
20	.67	.72	.32	80.79		81.92	.32	.91	.77	.71	.68	.74
21	79.65	79.87	80.14	80.62		81.81	80.30	79.91	79.77	79.71	79.72	79.71
22	.95	.87	.04	.47		.32	.27	.91	.78	.71	.86	.68
23	.91	.84	.21	.35		.17	.24	.90	.78	.70	.81	.69
24	.82	80.02	.43	.24		.00	.21	.91	.77	.70	.81	.69
25	.76	.19	.30	.20		80.87	.20	.92	.77	.69	.79	.68
26	79.75	80.64	80.14	80.51		80.79	80.56	79.92	79.77	79.68	79.76	79.66
27	.73	.58	.10	.13		81.01	.74	.92	.77	.68	.75	.65
28	.81	80.73	.07	.36		.11	.31	.91	.77	.69	.73	.64
29	.73	.12	.05	81.11		80.92	.25	.91	.77	.68	.71	.65
30	80.02	.19	.15	.35		.84	.21	.90	.77	.68	-	.64
31	-	.55	-	.15		-	.16	-	.77	.68	-	.66
Mean	79.72	80.15	80.37	80.92		81.51	80.96	79.97	79.82	79.73	79.71	79.71
Max.	80.02	81.18	81.55	82.89		83.03	82.06	80.13	79.93	79.76	79.86	79.97
Min.	79.63	79.70	79.84	79.96		80.76	80.16	79.90	79.77	79.68	79.65	79.63

WATER YEAR 1971 : Max. 83.03 m. Min. 79.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.76	3.40	27	15		42	77	6.60	4.00	2.48	1.84	2.00
2	1.68	2.56	21	30		68	90	6.00	3.90	2.48	1.76	1.92
3	1.68	2.24	18	25		44	81	5.64	4.10	2.48	1.76	1.76
4	1.68	2.08	11	15		86	55	5.52	3.90	2.40	1.76	1.68
5	1.60	2.00	10	13		54	44	5.40	3.80	2.48	1.68	1.68
6	1.60	4.00	7.60	10		40	31	5.16	3.70	2.48	1.76	1.60
7	1.52	39	5.64	8.60		32	42	4.92	3.60	2.40	1.84	1.60
8	1.52	12	6.40	7.20		124	102	4.80	3.50	2.40	1.76	1.60
9	1.52	6.00	4.80	5.76		137	53	4.70	3.30	2.40	1.76	1.68
10	1.44	4.60	4.60	5.16		133	36	4.50	3.30	2.32	1.68	1.60
11	1.44	3.60	4.30	4.70		45	29	4.40	3.20	2.32	1.68	1.52
12	1.44	3.10	4.10	4.40		35	26	4.30	3.00	2.32	1.60	1.52
13	1.52	2.80	3.60	10		28	23	4.20	2.90	2.24	1.60	1.52
14	1.92	2.64	3.30	178		23	20	4.00	2.80	2.24	1.60	1.52
15	1.68	2.90	3.20	111		22	16	4.00	2.80	2.24	1.60	1.52
16	1.60	3.30	5.52	57		25	14	4.00	2.80	2.16	1.60	1.44
17	1.92	2.56	44	35		45	13	3.90	2.56	2.16	1.60	4.50
18	1.92	2.56	60	54		110	12	3.90	2.56	2.16	1.60	4.00
19	1.76	2.32	20	32		216	11	3.90	2.56	2.16	1.60	2.80
20	1.76	2.16	10	23		90	10	3.90	2.56	2.08	1.84	2.32
21	1.60	3.50	6.80	18		81	10	3.90	2.56	2.08	2.16	2.08
22	4.30	3.50	5.28	13		47	9.40	3.90	2.64	2.08	3.40	1.84
23	3.90	3.20	8.20	11		38	8.80	3.80	2.64	2.00	2.90	1.92
24	3.00	5.04	13	8.80		30	8.20	3.90	2.56	2.00	2.90	1.92
25	2.48	7.90	10	8.00		25	8.00	4.00	2.56	1.92	1.72	1.84
26	2.40	18	6.80	14		23	16	4.00	2.56	1.84	2.48	1.68
27	2.24	34	6.00	6.60		30	21	4.00	2.56	1.84	2.40	1.60
28	2.90	21	5.64	11		35	10	3.90	2.56	1.92	2.24	1.52
29	2.24	6.40	5.40	35		27	9.00	3.90	2.56	1.84	2.08	1.60
30	5.04	7.80	7.00	49		24	8.20	3.80	2.56	1.84	–	1.52
31	–	15	–	37		–	7.20	–	2.56	1.84	–	1.68
Total	63.06	231.06	348.18	855.22		1,759	900.80	132.84	93.16	67.60	57.20	58.98
Mean	2.10	7.45	11.6	27.6		58.6	29.0	4.43	3.00	2.18	1.97	1.90
Max.	5.04	39	60	178		216	102	6.60	4.10	2.48	3.40	4.50
Min.	1.44	2.00	3.20	4.40		22	7.20	3.80	2.56	1.84	1.60	1.44
Runoff – mcm.	5.448	19.963	30.083	73.891		151.978	77.829	11.477	8.049	5.841	4.942	5.096

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19.71	10.00	83.89	359				

NAN RIVER BASIN

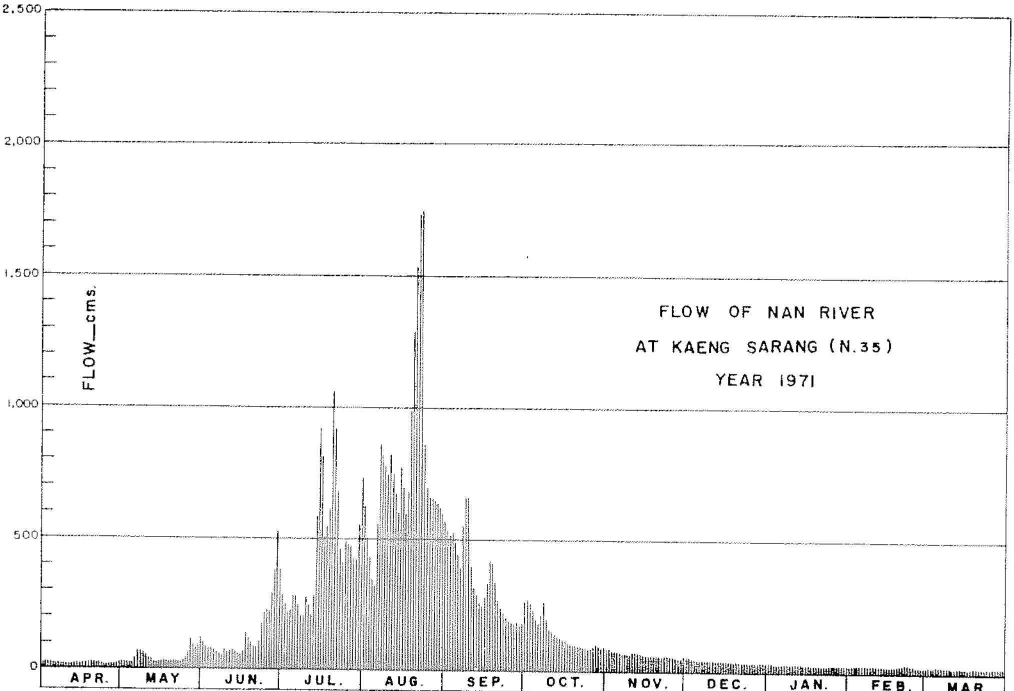
Nan River at Kaeng Sarana, Nan (N. 35)

Location:	Lat. 18°-23'-36" N., Long. 100°-51'-05" E., on left bank about 29 kilometers downstream from the district office of Amphoe Sa, between Doi Khon Kaen and Doi Cham Hang, Amphoe Sa, Nan.
Drainage Area:	10,335 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	In the fence of Meteorological station.
Elevation:	+ 12.354 m. (A.D.)
Gage Reading Frequency:	16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 16 readings.
Period of Available Gage Records:	1966 to date.
Rating Operation:	
Period of Rating:	1966 to date.
Rated by Float:	-
Rated by Current Meter:	1966 to date.
Stability of Channel Regimes:	Rather unstable, 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 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.81	0.84	1.38	2.48	3.79	3.75	2.42	1.34	1.12	1.01	0.88	0.82
2	.80	.80	.27	.36	.50	.65	.50	.32	.11	.00	.88	.82
3	.79	.78	.35	.15	.16	.62	.44	.29	.10	0.99	.87	.82
4	.78	.84	.30	.19	2.82	.69	.16	.28	.09	.90	.87	.82
5	.77	.83	.23	.55	.60	.45	1.98	.27	.08	.97	.86	.82
6	0.77	1.23	1.16	2.50	3.13	3.28	1.84	1.25	1.07	0.96	0.85	0.82
7	.76	1.25	.10	.21	4.98	.07	.95	.24	.06	.95	.85	.81
8	.76	1.21	.08	.02	.79	4.22	2.42	.23	.06	.95	.85	.81
9	.75	.11	.31	.11	.60	.25	.04	.22	.05	.94	.85	.81
10	.78	.08	.24	.50	.49	3.47	1.81	.23	.04	.94	.84	.81
11	0.78	1.01	1.30	2.25	4.84	2.99	1.74	1.29	1.04	0.94	0.83	0.80
12	.78	0.95	.26	.03	.46	.71	.71	.26	.03	.93	.83	.80
13	.80	.91	.19	.49	.14	.52	.64	.23	.03	.93	.83	.80
14	.78	.89	.12	4.74	3.95	.43	.59	.21	.03	.93	.83	.83
15	.77	.92	.13	5.41	4.64	.33	.54	.21	.03	.93	.83	.81
16	0.79	0.91	1.29	4.52	4.28	2.56	1.50	1.19	1.02	0.92	0.83	0.80
17	.81	.95	.67	3.58	3.93	.53	.48	.18	.02	.92	.83	.80
18	.81	.95	.55	.75	4.27	3.20	.46	.17	.02	.92	.83	.80
19	.85	.94	.41	4.04	6.06	.13	.44	.16	.02	.91	.82	.83
20	.89	.89	.33	5.67	.66	2.65	.43	.16	.01	.91	.83	.81
21	0.82	0.88	1.26	5.13	7.35	2.45	1.41	1.15	1.01	0.91	0.88	0.80
22	.82	.89	.51	4.00	.40	.22	.41	.15	.01	.90	.97	.79
23	.79	.90	2.05	3.35	5.89	.09	.40	.14	.01	.90	.96	.78
24	.77	.95	.17	.16	4.77	.01	.38	.14	.01	.89	.91	.78
25	.75	1.07	.19	.52	4.32	1.95	.37	.13	.00	.89	.87	.78
26	0.75	1.27	2.13	3.48	4.23	1.92	1.37	1.13	1.00	0.89	0.85	0.77
27	.76	.52	.55	.25	.22	.88	.40	.13	0.99	.89	.84	.77
28	.77	.31	3.58	.24	.20	.90	.45	.13	.99	.88	.83	.77
29	.80	.27	.68	.23	.19	.85	.40	.13	.98	.88	.83	.79
30	.88	.35	2.82	.73	.06	.85	.38	.13	.98	.88		.83
31		.56		4.52	3.90		.38		1.00	.88		.81
Mean	0.79	1.04	1.62	3.20	4.50	2.79	1.69	1.16	1.03	0.92	0.86	0.80
Max.	0.89	1.56	3.68	5.67	7.40	3.75	2.50	1.34	1.12	1.01	0.97	0.83
Min.	0.75	0.78	1.08	2.02	2.60	1.85	1.37	1.13	0.98	0.88	0.82	0.77

WATER YEAR 1971 : Max. 7.40 m. Min. 0.75 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	23	91	275	549	538	264	84	53	39	26	22
2	20	20	74	254	480	514	274	81	51	38	26	22
3	19	18	66	219	402	508	268	77	50	37	25	22
4	18	23	78	225	336	524	223	75	49	28	25	22
5	18	22	68	287	296	468	192	74	48	35	25	22
6	18	68	58	278	396	429	171	71	46	34	24	22
7	17	71	50	229	856	383	187	69	45	33	24	21
8	17	64	48	198	803	651	264	68	45	33	24	21
9	16	51	80	213	752	658	201	66	44	32	24	21
10	18	48	69	278	722	473	166	68	43	32	23	21
11	18	39	78	235	817	367	154	77	43	32	22	20
12	18	33	72	200	714	316	148	72	42	31	22	20
13	20	29	62	276	632	282	144	68	42	31	22	20
14	18	27	53	790	586	266	126	64	42	31	22	22
15	18	30	54	919	763	249	177	64	42	31	22	21
16	19	29	77	730	666	289	110	62	40	30	22	20
17	21	33	141	498	581	283	108	60	40	30	22	20
18	21	33	119	588	663	411	104	59	40	30	22	20
19	24	32	96	608	1,184	396	100	58	40	29	21	22
20	27	27	83	1,060	1,404	305	99	58	39	29	22	21
21	22	26	72	898	1,717	269	96	56	39	29	26	20
22	22	27	112	598	1,744	230	96	56	39	28	35	19
23	19	28	203	445	1,130	209	94	55	39	28	34	18
24	18	23	222	402	798	197	91	55	39	28	29	18
25	16	46	225	485	676	187	89	54	38	28	26	18
26	16	74	216	475	653	183	89	54	38	28	24	18
27	17	114	287	422	651	177	94	54	37	28	23	18
28	18	80	498	420	646	180	102	54	37	28	22	18
29	20	74	521	418	644	172	94	54	37	26	22	18
30	26	86	336	533	612	172	90	54	37	26	–	19
31	–	121	–	730	596	–	90	54	38	26	–	22
Total	580	1,419	4,229	14,136	23,469	10,286	4,509	1,921	1,302	946	706	631
Mean	19.3	45.4	141	456	757	343	145	64.0	42	30.5	24.3	20.3
Max.	27	121	521	1,060	1,744	538	278	84	53	39	35	22
Min.	16	18	48	198	296	172	89	54	37	26	21	18
Runoff - MCM.	50.112	122.602	365.385	1,021.350	2,027.722	888.710	389.578	165.975	112.493	81.734	60.998	54.518

WATER YEAR 1971 : Max. 1,744 Min. 16 Mean 175 Annual Runoff 5,541.177 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.21	21.00	7.84	2,013				

NAN RIVER BASIN

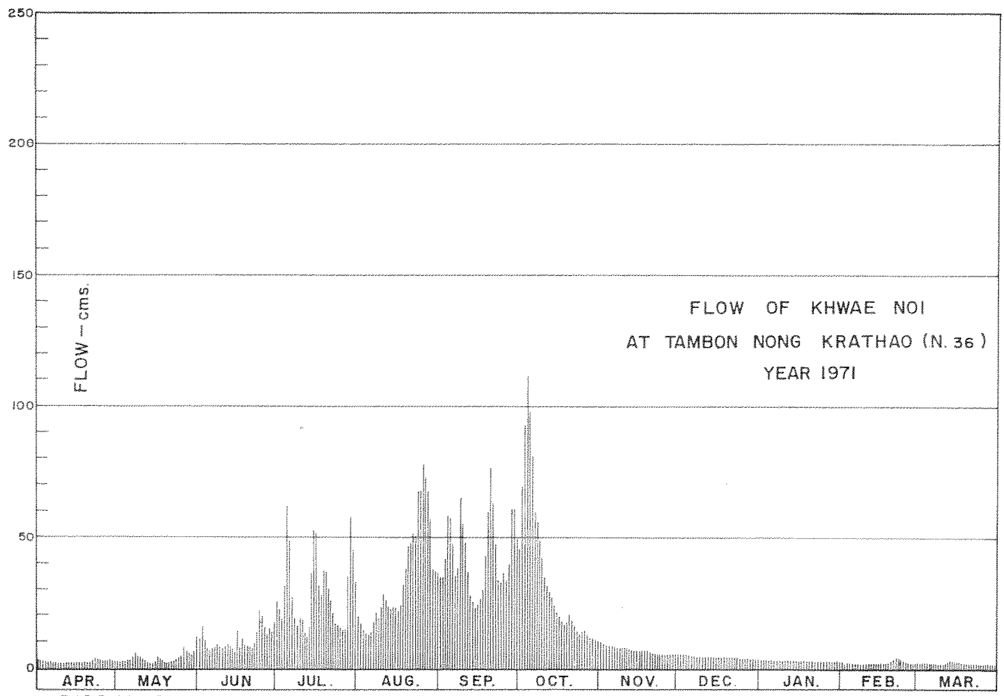
Khwae Noi at Tambon Nong Krathao, Phitsanulok (N. 36)

Location:	Lat. 17°-04'-59" N., Long 100°-49'-55" E., On left bank about 50 meters upstream from Belly Bridge along the road Lom Sak-Nakhon Thai, Tambon Nong Krathao, Amphoe Nakhon Thai, Phitsanulok.
Drainage Area:	1,651 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.-H.S.
Location:	On left bank along the measuring line.
Elevation:	+ 6.154 m (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1971 to date
Rated by Float:	-
Rated by Current Meter:	1971 to date
Stability of Channel Regimes:	Fairly stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.78	0.79	1.50	2.53	2.32	3.12	3.58	1.47	1.60	0.91	0.79	0.73
2	.77	.77	.98	.30	.04	2.98	4.31	.43	.05	.90	.78	.72
3	.76	.77	.50	.00	1.87	3.37	5.63	.39	.04	.90	.78	.72
4	.75	.86	.30	.68	.72	4.27	6.61	.36	.03	.91	.77	.71
5	.75	.88	.14	4.42	.64	.22	.29	.34	.03	.89	.77	.71
6	0.75	0.89	1.32	3.12	1.75	3.61	5.31	1.31	1.02	0.89	0.77	0.71
7	.74	1.21	.24	2.43	.97	.09	4.30	.30	.01	.88	.77	.71
8	.73	.00	.40	.11	2.23	.31	.21	.28	.01	.88	.76	.70
9	.73	0.99	.34	1.87	.05	4.59	3.58	.26	.00	.88	.76	.71
10	.73	.89	.27	2.10	.31	3.96	.15	.25	0.99	.87	.76	.71
11	0.76	0.84	1.45	2.04	2.68	3.12	2.90	1.24	0.98	0.86	0.75	0.70
12	.78	.79	.42	1.76	.55	2.74	.77	.22	.97	.86	.75	.70
13	.78	.76	.27	.62	.33	.52	.59	.20	.97	.86	.75	.83
14	.78	.76	.15	2.69	.29	.37	.41	.19	.97	.86	.75	.82
15	.79	.78	.07	3.95	.35	.32	.26	.18	.96	.85	.75	.79
16	0.77	0.96	1.83	3.92	2.24	2.43	2.15	1.16	0.96	0.84	0.75	0.76
17	.75	.86	.23	2.94	.27	.60	.06	.15	.95	.84	.74	.75
18	.75	.78	.56	.61	.82	3.19	1.97	.15	.95	.84	.74	.75
19	.70	.76	.33	3.17	3.01	4.34	.92	.14	.95	.84	.74	.74
20	.80	.82	.31	.05	.66	5.09	2.17	.13	.95	.83	.84	.73
21	0.95	0.86	1.27	2.70	3.71	4.49	2.05	1.12	0.94	0.83	0.91	0.71
22	.91	.85	.26	.37	.91	3.53	1.86	.11	.94	.83	.91	.71
23	.85	.88	.57	.10	.84	2.94	.75	.10	.93	.82	.82	.70
24	.84	1.00	2.30	1.92	4.71	.84	.68	.09	.93	.82	.80	.70
25	.79	0.99	.21	.85	.72	3.13	.72	.08	.93	.80	.77	.70
26	0.87	1.34	2.07	1.86	5.14	2.93	1.82	1.08	0.92	0.82	0.76	0.69
27	.78	.16	1.68	.76	4.86	3.16	.70	.08	.92	.81	.76	.69
28	.92	.05	.88	2.89	.56	4.35	.62	.10	.91	.80	.76	.70
29	.83	.00	.77	4.23	3.76	.39	.58	.12	.91	.81	.75	.69
30	.79	.38	.83	3.74	.11	.02	.56	.07	.91	.80	-	.68
31	-	.67	-	2.30	.17	-	.51	-	.91	.79	-	.68
Mean	0.79	0.95	1.51	2.63	2.95	3.43	2.87	1.20	0.97	0.85	0.78	0.72
Max.	0.95	1.65	2.30	4.42	5.14	5.09	6.61	1.47	1.06	0.91	0.91	0.83
Min.	0.73	0.76	1.14	1.62	1.64	2.32	1.51	1.07	0.91	0.79	0.74	0.68

WATER YEAR 1971 : Max. 6.61 m. Min. 0.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.04	3.12	11	26	23	37	45	11	5.80	4.30	3.12	2.64
2	2.96	2.96	18	23	19	34	60	10	5.70	4.20	3.04	2.56
3	2.88	2.96	11	18	16	41	89	9.68	5.60	4.20	3.04	2.56
4	2.80	3.80	8.60	29	14	59	112	9.32	5.50	4.30	2.96	2.48
5	2.80	4.00	6.68	62	13	58	104	9.08	5.50	4.10	2.96	2.48
6	2.80	4.10	8.84	37	14	46	82	8.72	5.40	4.10	2.96	2.48
7	2.72	7.52	7.88	25	17	36	60	8.60	5.30	4.00	2.96	2.48
8	2.64	5.20	9.80	20	22	40	58	8.36	5.30	4.00	2.88	2.40
9	2.64	5.10	9.08	16	19	66	45	8.12	5.20	4.00	2.88	2.48
10	2.64	4.10	8.24	20	23	53	37	8.00	5.10	3.90	2.88	2.48
11	2.88	3.60	10	19	29	37	33	7.88	5.00	3.80	2.80	2.40
12	3.04	3.12	10	14	27	30	31	7.64	4.90	3.80	2.80	2.40
13	3.04	2.88	8.24	12	23	36	27	7.40	4.90	3.80	2.80	3.50
14	3.04	2.88	6.80	29	23	34	24	7.88	4.90	3.80	2.80	3.40
15	3.12	3.04	5.90	53	24	23	22	7.16	4.80	3.70	2.80	3.12
16	2.96	4.80	15	52	22	26	20	6.92	4.80	3.60	2.80	2.88
17	2.80	3.80	7.76	34	22	28	19	6.80	4.70	3.60	2.72	2.80
18	2.80	3.04	12	28	31	38	17	6.80	4.70	3.60	2.72	2.80
19	2.80	2.88	8.96	38	35	60	17	6.68	4.70	3.60	2.72	2.72
20	3.20	3.40	8.72	36	47	77	21	6.56	4.70	3.50	3.60	2.64
21	4.70	3.80	8.24	29	48	63	19	6.44	4.60	3.50	4.30	2.48
22	4.30	3.70	8.12	24	52	44	16	6.32	4.60	3.50	4.30	2.48
23	3.70	4.00	12	20	50	34	14	6.20	4.50	3.40	3.40	2.40
24	3.60	5.20	23	17	68	32	13	6.10	4.50	3.40	3.20	2.40
25	3.12	5.10	21	16	69	37	14	6.00	4.50	3.20	2.96	2.40
26	3.90	9.08	19	16	78	33	15	6.00	4.40	3.40	2.88	2.32
27	3.04	6.92	13	14	72	38	14	6.00	4.40	3.30	2.88	2.32
28	4.40	5.70	16	33	65	61	12	6.20	4.30	3.20	2.88	2.40
29	3.50	5.20	14	58	49	61	12	6.44	4.30	3.30	2.80	2.32
30	3.12	9.56	15	48	37	54	12	5.90	4.30	3.20	–	2.24
31	–	13	–	31	38	–	11	–	4.30	3.12	–	2.24
Total	94.98	147.56	341.86	897	1,089	1,296	1,075	223.60	151.20	114.42	87.84	79.70
Mean	3.17	4.76	11.4	28.9	35.1	43.2	34.7	7.45	4.88	3.69	3.03	2.57
Max.	4.70	13	23	62	78	77	112	11	5.80	4.30	4.30	3.50
Min.	2.64	2.88	6.68	12	13	23	11	5.90	4.30	3.12	2.72	2.24
Runoff - mcm.	8.206	12.749	29.537	77.501	94.090	111.974	92.880	19.319	13.064	9.886	7.589	6.886

WATER YEAR 1971 : Max. 112 Min. 2.24 Mean 15.3 Annual Runoff 483.681 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 4	06.00	6.67	113				

NAN RIVER BASIN

Nan River at Thap Krit, Nakhon Sawan (N. 37)

Location: Lat. 15°-45'-19" N., Long 100°-15'-35" E., On left bank infront of Wat Thap Krit, Amphoe Chum Saeng, Nakhon Sawan.

Drainage Area: 56,214 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M.-H.S. N.37

Location: Near the top of vertical staff gage.
Elevation: + 7,121 m (A.D.)

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

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

Period of Available Gage Records: 1967 to date.

Rating Operation:

Period of Rating: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

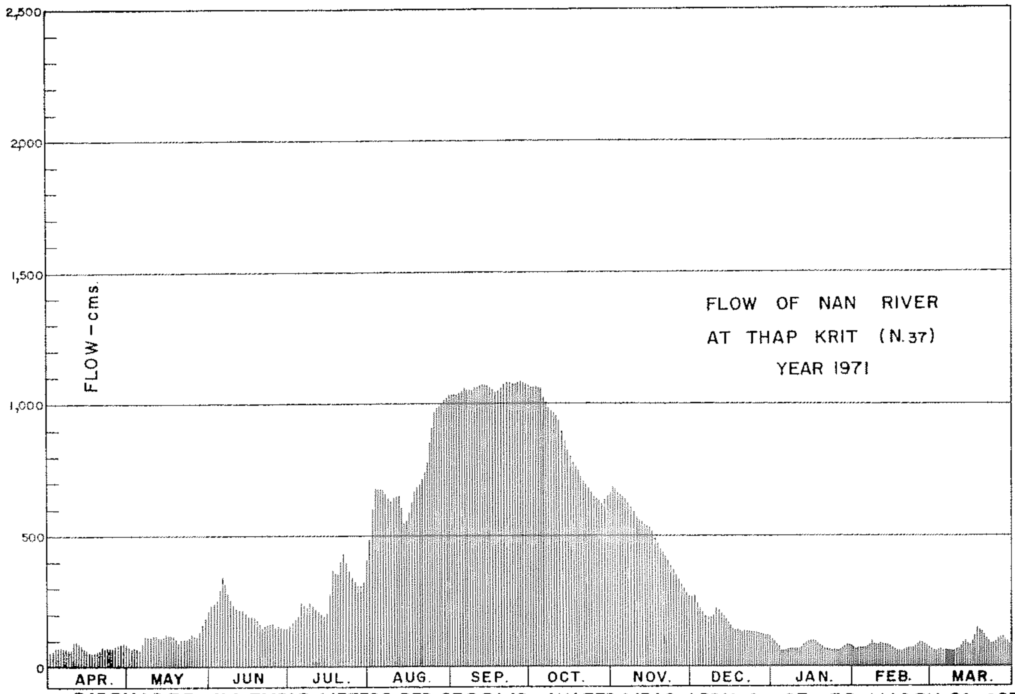
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge retationship used is defined by discharge measurements made during 1971. No state diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.71	0.86	1.83	1.39	3.16	5.53	6.47	4.95	1.96	1.03	0.89	0.81
2	.82	.83	.78	.48	.54	.55	.46	.90	2.01	0.92	.80	.74
3	.87	.87	.87	.53	.77	.58	.45	.77	1.88	.84	.81	.76
4	.84	.84	.97	.58	.74	.68	.45	.69	.76	.76	.86	.80
5	.85	.81	2.15	.70	.76	.73	.54	.61	.66	.71	.88	.82
6	0.84	0.98	2.33	1.84	3.74	6.76	6.61	4.52	1.60	0.77	0.86	0.81
7	.81	1.15	.10	.77	.65	.74	.64	.43	.57	.90	.89	.79
8	.76	.16	.00	.76	.61	.73	.67	.31	.52	.89	1.01	.77
9	.84	.14	1.96	.83	.60	.76	.66	.20	.53	.85	0.98	.72
10	1.04	.15	.85	.81	.66	.77	.64	.09	.63	.88	.89	.78
11	1.02	1.17	1.76	1.72	3.64	5.84	6.63	3.96	1.70	0.85	0.95	0.84
12	0.92	.12	.67	.67	.68	.90	.58	.86	.66	.90	.93	.89
13	.85	.09	.70	.61	.53	.90	.42	.81	.60	.97	.89	1.00
14	.78	.18	.62	.55	.23	.89	.25	.77	.49	1.04	.89	.05
15	.74	.17	.58	.55	.27	.84	.13	.70	.38	.03	.86	0.98
16	0.73	1.18	1.59	1.70	3.50	5.76	5.90	3.60	1.27	1.01	0.80	0.89
17	.70	.18	.57	2.22	.67	.68	.75	.46	.24	.0.99	.77	.93
18	.72	.12	.48	.44	.78	.66	.61	.28	.22	.95	.75	1.07
19	.78	0.99	.44	.38	.80	.74	.46	.13	.24	.86	.73	.29
20	.86	.98	.37	.41	.87	.85	.32	.06	.22	.83	.76	.25
21	0.88	1.08	1.33	2.71	3.96	6.07	5.12	2.98	1.25	0.83	0.83	1.14
22	.84	.05	.34	.73	4.16	.24	.01	.88	.22	.78	.87	.03
23	.86	.07	.43	.55	.43	.33	4.86	.76	.23	.79	.84	0.96
24	.84	.10	.43	.42	.81	.38	.73	.65	.22	.80	.91	.95
25	.87	.17	.40	.35	5.15	.37	.64	.53	.22	.79	.97	.94
26	0.92	0.13	1.33	-	5.23	6.36	4.58	2.42	1.23	0.78	1.00	0.99
27	.95	.13	.34	-	.31	.35	.46	.50	.20	.73	.97	1.07
28	.98	.26	.33	-	.41	.36	.43	.17	.17	.80	.97	.09
29	.97	.34	.31	2.20	.49	.38	.47	.05	.12	.90	.90	.01
30	.91	.48	.31	.60	.54	.45	.57	1.97	.15	.92	-	0.94
31	-	.62	-	.91	.56	-	.79	-	.12	.91	-	.91
Mean	0.85	1.17	1.64	2.01	4.11	5.94	5.72	3.53	1.43	0.87	0.88	1.03
Max.	1.04	1.18	2.33	2.91	5.56	6.45	6.67	4.95	2.01	1.92	1.01	1.29
Min.	0.71	0.81	1.31	1.39	3.16	5.53	4.43	1.97	1.12	0.78	0.73	0.72

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	51.	71	240	160	528	1,024	1,058	682	262	97	75	63
2	65	66	230	176	616	1,026	1,060	676	270	80	62	55
3	72	72	247	184	674	1,030	1,061	659	249	68	63	57
4	68	68	267	193	667	1,042	1,061	650	226	57	71	62
5	69	63	303	215	672	1,047	1,046	640	209	51	74	65
6	68	89	341	242	667	1,051	1,026	627	198	58	71	63
7	63	117	293	228	642	1,048	1,003	618	192	77	75	61
8	57	119	273	226	632	1,047	980*	601	183	75	94	58
9	68	116	256	240	632	1,051	973	588	184	69	89	52
10	99	117	243	236	645	1,052	960	575	203	74	75	60
11	95	121	226	219	640	1,064	954	556	215	69	84	68
12	80	112	211	211	650	1,066	929	544	209	67	81	75
13	69	107	215	200	613	1,066	891	537	198	87	75	92
14	60	123	201	188	543	1,065	859	532	177	99	75	100
15	55	121	193	188	553	1,060	838	522	158	97	71	89
16	54	123	195	215	608	1,051	802	508	139	94	62	75
17	50	123	192	318	647	1,042	783	488	133	90	58	81
18	52	112	176	364	677	1,039	764	463	130	84	56	104
19	60	90	169	352	683	1,048	744	441	133	71	54	142
20	71	89	167	358	700	1,061	726	431	130	66	57	135
21	74	106	149	423	721	1,074	704	420	135	66	66	116
22	68	100	151	428	768	1,076	689	406	130	60	72	97
23	71	104	167	388	827	1,073	670	388	131	61	68	86
24	68	109	167	360	905	1,069	654	371	130	62	78	84
25	72	121	162	345	966	1,070	644	353	130	61	87	83
26	80	114	149	*325	979	1,071	636	336	131	60	92	90
27	84	114	151	*310	992	1,071	621	318	126	54	87	104
28	89	137	149	*305	1,007	1,071	618	297	·121	62	87	107
29	87	151	146	314	1,019	1,069	622	280	112	77	77	94
30	78	176	146	399	1,025	1,061	635	263	117	80	–	83
31	–	201	–	469	1,027	–	662	–	112	78	–	78
Total	2,097	3,452	6,175	8,779	22,925	31,685	25,673	14,770	5,173	2,251	2,136	2,579
Mean	69.9	111	206	283	739	1,056	828	492	167	72.6	73.6	83.2
Max.	99	123	341	469	1,027	1,076	1,061	682	270	257	94	142
Min.	51	63	140	160	528	1,024	618	263	112	60	54	52
Runoff – MCM.	181.181	298.253	533.520	758.506	1,980.720	2,737.584	2,218.147	1,276.128	446.947	194.486	184.550	222.826

WATER YEAR 1971 : Max. 1,076 Min. 51 Mean 349 Annual Runoff 11,032.848 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.22		6.67	1,076				

NAN RIVER BASIN

Nam Phai at Ban Na Nam Phai, Uttaradit (N. 41)

Location: Lat. 17°-49'-38" N., Long 100°-48'-30" E., On left bank at Ban Na Nam Phai about 2 kilometers before confluence with Nam Pat, Amphoe Nam Pat, Uttanadit.

Drainage Area: 223 sq.km.

Type of Gage: Staff gage.

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

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1967-1971

Rating Operation:

Period of Rating: 1969-1971
Rated by Float: -
Rated by Current Meter: 1969-1971

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

Overbank Flow Conditions: No overbank flow.

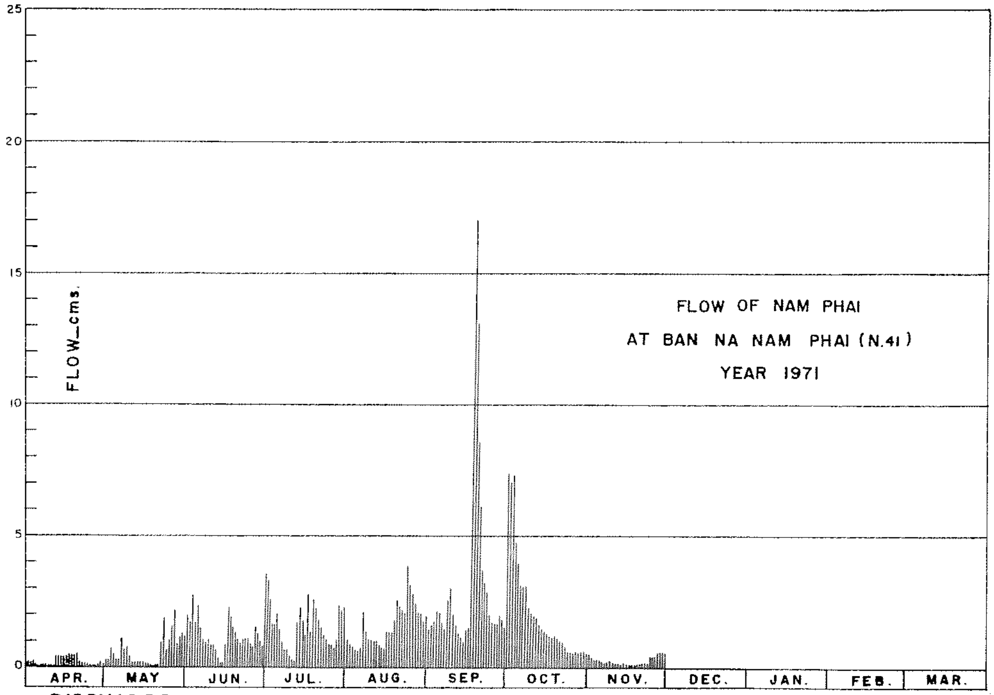
General Description: Records poor. The data presented is made by discharge measurements during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: Ending records on December 1, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.51	0.55	0.85	0.97	0.72	0.79	1.17	0.62				
2	.51	.56	.80	.95	.71	.81	.15	.59				
3	.54	.67	.92	.85	.70	.83	.17	.57				
4	.45	.61	.80	.80	.67	.87	.04	.55				
5	.45	.56	.89	.86	.65	.86	.00	.54				
6	0.44	0.56	0.79	0.80	0.68	0.81	0.94	0.53				
7	.44	.73	.74	.72	.86	.78	.94	.52				
8	.43	.65	.71	.66	.78	.90	.94	.55				
9	.43	.69	.73	.66	.74	.94	.87	.54				
10	.44	.61	.70	.59	.73	.85	.86	.52				
11	0.44	0.52	0.70	0.56	0.72	0.81	0.85	0.51				
12	.60	.52	.63	.55	.73	.77	.84	.51				
13	.60	.51	.53	.82	.71	.75	.81	.50				
14	.60	.52	.52	.88	.68	.72	.79	.52				
15	.60	.51	.53	.83	.69	.79	.78	.49				
16	0.61	0.50	0.82	0.74	0.78	0.81	0.76	0.50				
17	.61	.49	.88	.92	.78	.90	.75	.50				
18	.61	.49	.80	.75	.78	1.33	.75	.50				
19	.61	.47	.78	.91	.85	.50	.75	.51				
20	.61	.50	.74	.88	.91	.18	.74	.51				
21	0.51	0.51	0.71	0.83	0.89	0.96	0.72	0.51				
22	.51	.72	.74	.80	.87	.95	.72	.51				
23	.51	.84	.74	.76	.94	.93	.65	.52				
24	.50	.65	.73	.73	.99	.85	.65	.60				
25	.43	.73	.70	.71	.94	.82	.64	.60				
26	0.43	0.79	0.69	0.71	0.92	0.82	0.64	0.60				
27	.48	.87	.80	.69	.90	.82	.65	.64				
28	.48	.69	.75	.74	.86	.85	.64	.65				
29	.52	.75	.70	.90	.86	.83	.65	.64				
30	.50	.77	.70	.87	.83	.80	.64	.63				
31	–	.75	–	.77	.85	–	.63	–				
Mean	0.51	0.62	0.74	0.78	0.80	0.89	0.81	0.55				
Max.	0.61	0.87	0.92	0.97	0.99	1.50	1.17	0.65				
Min.	0.43	0.47	0.52	0.55	0.65	0.72	0.63	0.49				

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.13	0.25	1.95	3.52	0.94	1.43	7.34	0.48				
2	0.13	0.28	1.50	3.20	0.87	1.59	6.90	0.37				
3	0.22	0.68	2.72	1.95	0.80	1.77	7.34	0.31				
4	0.050	0.44	1.50	1.50	0.68	2.13	4.72	0.25				
5	0.050	0.28	2.31	2.04	0.60	2.04	4.00	0.22				
6	0.040	0.28	1.43	1.50	0.72	1.59	3.04	0.19				
7	0.040	1.01	1.08	0.94	2.04	1.36	3.04	0.16				
8	0.030	0.60	0.87	0.64	1.36	2.40	3.04	0.25				
9	0.030	0.76	1.01	0.64	1.08	3.04	2.13	0.22				
10	0.040	0.44	0.80	0.37	1.01	1.95	2.04	0.16				
11	0.040	0.16	0.80	0.28	0.94	1.59	1.95	0.13				
12	0.40	0.16	0.52	0.25	1.01	1.29	1.86	0.13				
13	0.40	0.13	0.19	1.68	0.87	1.15	1.59	0.10				
14	0.40	0.16	0.16	2.22	0.72	0.94	1.43	0.16				
15	0.40	0.13	0.19	1.77	0.76	1.43	1.36	0.090				
16	0.44	0.10	1.68	1.08	1.36	1.59	1.22	0.10				
17	0.44	0.090	2.22	2.72	1.36	2.40	1.15	0.10				
18	0.44	0.090	1.50	1.15	1.36	12	1.15	0.10				
19	0.44	0.070	1.36	2.56	1.95	17	1.15	0.13				
20	0.44	0.10	1.08	2.22	2.56	7.56	1.08	0.13				
21	0.13	0.13	0.87	1.77	2.31	3.36	0.94	0.13				
22	0.13	0.94	1.08	1.50	2.13	3.20	0.94	0.13				
23	0.13	1.86	1.08	1.22	3.04	2.88	0.60	0.16				
24	0.10	0.60	1.01	1.01	3.84	1.95	0.60	0.40				
25	0.030	1.01	0.80	0.87	3.04	1.68	0.56	0.40				
26	0.030	1.43	0.76	0.87	2.72	1.68	0.56	0.40				
27	0.080	2.13	1.50	0.76	2.40	1.68	0.60	0.56				
28	0.080	0.76	1.15	1.08	2.04	1.95	0.56	0.60				
29	0.16	1.15	0.80	2.40	2.04	1.77	0.60	0.56				
30	0.10	1.29	0.80	2.13	1.77	1.50	0.56	0.52				
31	-	1.15	-	1.29	1.95	-	0.52	-				
Total	5.570	18.66	34.72	47.13	50.27	87.90	64.57	7.64				
Mean	0.18	0.60	1.16	1.52	1.62	2.93	2.08	0.25				
Max.	0.44	2.13	2.72	3.52	3.84	17	7.34	0.60				
Min.	0.030	0.070	0.16	0.25	0.60	0.94	0.52	0.090				
Runoff - mcm.	0.481	1.612	3.000	4.072	4.343	7.594	5.579	0.660				

WATER YEAR 1971 : Max. 17 Min. - Mean - Annual Runoff - mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	09.00	1.70	26				

CHAO PHYA RIVER BASIN

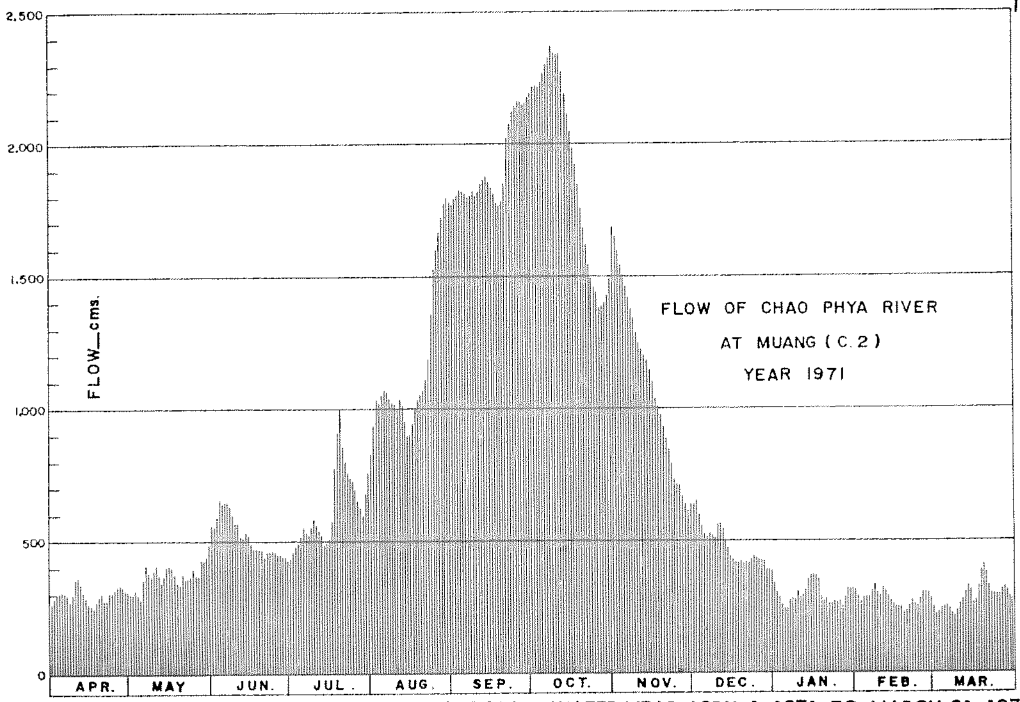
Chao Phya River at Nakhon Sawan, Nakhon Sawan (C. 2)

Location:	Lat. 15^{0}–40'–15" N., Long 100^{0}–06'–45" E., On left bank about 3 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.
Drainage Area:	110,569 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 17.00 m (M.S.L.)
Bench Mark:	B.M.–H.S./RID
Location:	About 20 meters west of the gage site.
Elevation:	+ 25.628 m (M.S.L.)
Gage Reading Frequency:	Recording.
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1914 to date.
Rating Operation:	
Period of Rating:	1956 to date.
Rated by Float:	–
Rated by Current Meter:	1956 to date.
Stability of Channel Regimes:	Fairly stable with variable water surface slope and some scouring, no shifty 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 1971. Upstream State diversions for irrigation of about 9,100 hectars. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18.66	18.76	19.67	19.28	20.58	22.77	23.69	22.85	19.94	18.99	18.90	18.66
2	.77	.73	.65	.38	.88	.82	.73	.76	20.00	.88	.80	.57
3	.80	.81	.83	.42	21.06	.86	.72	.58	19.82	.80	.74	.61
4	.81	.74	.97	.47	.02	.89	.71	.48	.70	.71	.80	.67
5	.82	.64	.92	.56	.11	.88	.78	.37	.59	.65	.81	.68
6	18.80	19.00	19.95	19.65	21.15	22.86	23.85	22.28	19.54	18.68	18.81	18.68
7	.74	.17	.94	.58	.12	.83	.91	.17	.59	.79	.88	.65
8	.67	.05	.88	.57	.06	.85	.98	.06	.55	.80	.96	.60
9	.80	.02	.76	.68	.03	.89	24.03	21.97	.52	.77	.85	.54
10	.98	.11	.69	.75	.02	.84	.01	.76	.67	.88	.83	.62
11	19.00	19.16	19.70	19.66	20.96	22.88	24.01	21.72	19.72	18.80	18.92	18.72
12	18.86	18.98	.52	.61	21.05	.95	.01	.64	.67	.84	.88	.77
13	.76	.93	.54	.52	.00	.99	23.93	.60	.48	.93	.81	.86
14	.67	19.08	.57	.42	20.74	23.00	.85	.55	.41	19.06	.76	.94
15	.57	.14	.54	.48	.68	22.94	.71	.43	.29	.06	.72	.89
16	18.55	19.14	19.42	19.53	20.78	22.91	23.60	21.33	19.24	19.07	18.68	18.74
17	.49	.10	.37	.82	.91	.84	.47	.12	.20	.06	.67	.74
18	.59	.03	.38	20.47	21.03	.78	.34	.05	.19	.02	.67	.93
19	.73	18.89	.38	.79	.08	.76	.17	20.94	.21	18.77	.59	19.10
20	.76	.91	.36	.97	.13	.83	22.99	.82	.18	.76	.62	.16
21	18.65	19.04	19.26	20.60	21.17	22.98	22.82	20.71	19.20	18.80	18.71	19.10
22	.67	18.96	.34	.41	.29	23.32	.68	.59	.19	.72	.76	18.90
23	.76	.98	.36	.28	.52	.44	.48	.41	.25	.73	.72	.85
24	.78	19.03	.35	.21	.92	.53	.36	.20	.28	.74	.69	.84
25	.81	.12	.34	.17	22.20	.57	.27	.18	.25	.74	.80	.83
26	18.87	19.03	19.31	19.99	22.40	23.60	22.21	20.16	19.22	18.75	18.86	18.82
27	.89	.01	.31	.94	.55	.60	.09	.06	.21	.69	.86	.91
28	.86	.23	.28	.81	.68	.57	.11	19.97	.21	.81	.87	.92
29	.80	.23	.26	.78	.79	.60	.16	.89	.12	.91	.78	.87
30	.77	.29	.22	20.20	.82	.66	.24	.94	.13	.91	–	.78
31	–	.49	–	.40	.79	–	.46	–	.11	.90	–	.78
Mean	18.76	19.02	19.53	19.88	21.40	23.07	23.24	21.29	17.41	18.84	18.78	18.80
Max.	19.00	19.49	19.97	20.97	22.82	23.66	24.03	22.85	20.00	19.07	18.96	19.16
Min.	18.49	18.64	19.22	19.28	20.58	22.76	22.09	19.89	19.11	18.65	18.59	18.54

WATER YEAR 1971 : Max. 24.03 m. Min. 18.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	262	302	557	440	858	1,769	2,203	1,687	632	343	314	243
2	293	295	551	469	965	1,792	2,222	1,647	650	308	282	220
3	302	314	609	481	1,034	1,810	2,218	1.572	596	282	265	230
4	305	298	655	496	1,018	1,823	2,213	1,532	560	256	282	245
5	308	275	639	523	1,054	1,819	2,246	1,489	527	240	285	248
6	302	362	648	551	1,070	1,810	2,280	1,457	513	248	285	248
7	284	410	645	529	1,058	1,796	2,309	1,413	527	279	308	240
8	265	376	625	526	1,034	1,805	2,342	1,371	516	282	333	227
9	302	368	586	561	1,022	1,823	2,370	1,339	508	273	298	213
10	356	393	564	583	1,018	1,801	2,340	1,259	551	308	292	232
11	362	407	567	554	995	1,819	2,340	1,243	566	282	320	259
12	327	357	511	538	1,030	1,851	2,340	1,211	551	295	308	273
13	302	344	517	511	1,010	1,870	2,255	1,195	496	324	285	301
14	281	384	526	481	914	1,875	2,192	1,177	477	366	270	327
15	259	401	517	499	893	1,847	2,106	1,135	443	366	259	311
16	255	401	481	514	928	1,833	2,045	1,100	429	370	248	265
17	242	390	466	606	976	1,801	1,975	1,027	418	366	245	265
18	264	370	469	820	1,022	1,774	1,910	1,002	415	353	245	324
19	295	334	469	931	1,042	1,765	1,831	964	421	273	225	380
20	302	339	463	999	1,062	1,796	1,750	922	412	270	232	403
21	277	373	435	865	1,078	1,866	1,674	883	418	282	256	380
22	281	352	458	800	1,126	2,026	1,612	846	415	259	270	314
23	302	357	463	757	1,218	2,083	1,532	783	432	262	259	298
24	307	370	460	734	1,388	2,126	1,486	720	440	265	250	295
25	314	396	458	721	1,513	2,146	1,453	713	432	265	282	292
26	329	370	449	662	1,603	2,160	1,429	706	424	267	301	292
27	334	365	449	645	1,670	2,160	1,381	671	421	250	301	317
28	327	426	440	602	1,729	2,146	1,389	641	421	265	304	320
29	312	426	435	593	1,778	2,160	1,409	617	388	317	276	304
30	305	443	424	731	1,792	2,189	1,441	632	391	317	–	276
31	–	502	–	797	1,778	–	1,524	–	384	314	–	276
Total	8,956	11,500	15,536	19,519	36,676	57,341	59,817	32,954	14,774	9,167	8,080	8,818
Mean	298	371	518	630	1,183	1,911	1,929	1,098	476	296	279	284
Max.	362	502	655	999	1,792	2,189	2,370	1,687	650	370	333	403
Min.	242	275	424	440	858	1,765	1,381	617	384	240	225	213
Runoff - mcm.	773.798	993.600	1,342.310	1,686.442	3,168.806	4,954.262	5,168.189	2,847.226	1,276.474	792.029	698.112	761.875

WATER YEAR 1971 : Max. 2,370 Min. 213 Mean 774 Annual Runoff 24,463.123 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.9	04.00	24.03	2,370				

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 about 1.5 kilometers downstream from Chao Phya Diversion Dam, Amphoe Sanphya, 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: Along the gage line.
Elevation: + 15.634 m (M.S.L.)

Gage Reading Frequency: 24 time daily readings at 01-24.00 hours.

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

Period of Available Gage Records: 1947 to date .

Rating Operation:

Period of Rating: 1953-1962, 1965-1968, 1972, 1975 to date.
Rated by Float: -
Rated by Current Meter: 1953-1962, 1965-1968, 1972, 1975 to date

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

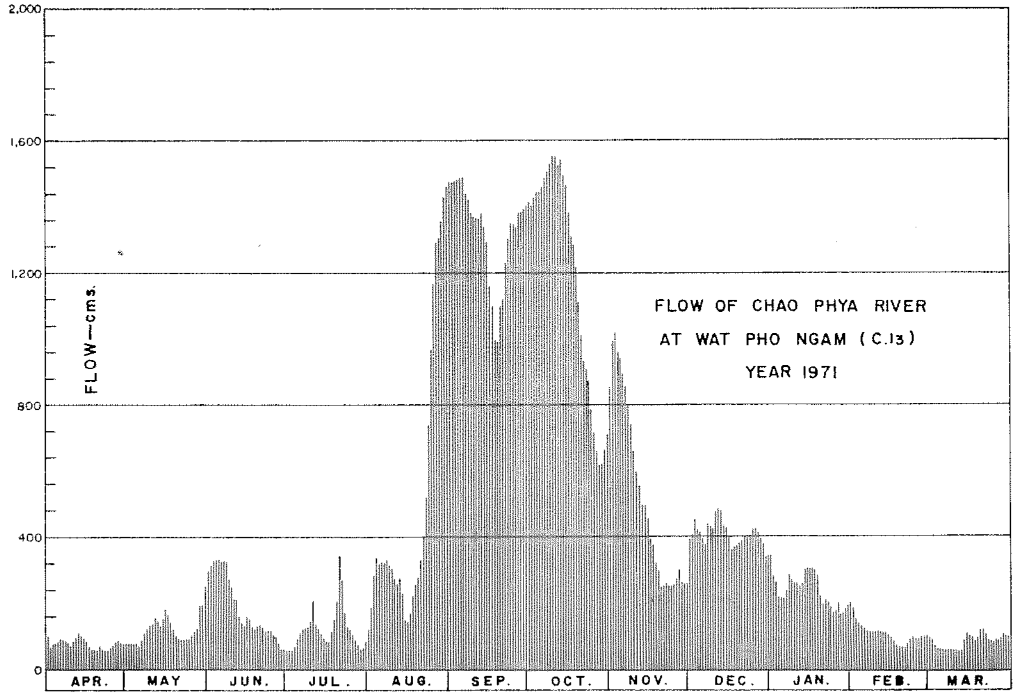
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1965-1968. Flow regulated by Chao Phya Diversion Dam at above gage site which diverted for irrigation of about 979,000 hectars. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.30	7.10	8.46	6.91	7.59	12.47	12.32	10.80	8.91	8.69	7.95	7.23
2	.00	.10	.56	.91	8.05	.47	.30	11.15	.99	.36	.79	.09
3	.06	.09	.62	.94	.51	.48	.40	.19	9.18	.28	.58	.01
4	.10	.09	.62	7.10	.67	.49	.40	.05	.03	.04	.53	6.95
5	.12	.08	.62	.25	.57	.50	.40	10.95	.00	.03	.48	.93
6	7.20	7.01	8.60	7.36	8.60	12.50	12.45	10.77	8.91	8.02	7.40	6.92
7	.15	.19	.60	.45	.58	.37	.51	.67	.85	.20	.37	.92
8	.15	.34	.59	.44	.63	.33	.58	.48	9.13	.40	.37	.92
9	.04	.45	.30	.50	.54	.23	.62	.26	.10	.31	.38	.91
10	.05	.53	.20	.68	.50	.21	.67	9.93	.08	.28	.37	.90
11	7.19	7.55	7.99	7.98	8.32	12.18	12.66	9.71	9.30	8.28	7.37	6.90
12	.30	.68	.98	.50	.28	.18	.60	.59	.31	.21	.37	.90
13	.34	.60	.63	.43	.35	.22	.64	.36	.29	.29	.37	7.00
14	.26	.48	.57	.32	.01	.13	.53	.35	.10	.50	.35	.20
15	.18	.69	.53	.21	7.64	11.98	.45	.26	.08	.50	.28	.35
16	7.10	7.83	7.70	7.15	7.63	11.63	12.22	8.97	8.96	8.50	7.20	7.30
17	.00	.71	.61	.15	.84	.52	.05	.86	.79	.50	.11	.20
18	6.94	.56	.47	.40	8.05	.42	11.97	.60	.83	.47	.02	.17
19	.93	.41	.47	.68	.28	.42	.75	.49	.85	.26	.01	.25
20	.93	.28	.50	.96	.43	.47	.46	.25	.88	.01	.01	.40
21	7.01	7.19	7.50	8.67	8.67	11.51	11.18	8.22	8.80	7.92	7.00	7.39
22	6.92	.19	.41	.09	9.06	.80	10.92	.28	.95	.99	.16	.29
23	.91	.19	.39	7.58	.70	12.02	.85	.24	.98	.93	.24	.16
24	.91	.18	.39	.45	10.34	.14	.68	.22	9.00	.85	.28	.14
25	7.00	.18	.39	.39	11.14	.14	.45	.28	.08	.73	.21	.14
26	7.07	7.29	7.31	7.30	11.66	12.12	10.15	8.37	9.08	7.87	7.21	7.19
27	.15	.38	.18	.15	.99	.22	9.97	.49	.00	.94	.25	.19
28	.17	.43	.09	.05	12.04	.25	.83	.29	8.92	.71	.28	.26
29	.10	.90	6.95	6.93	.23	.26	.88	.28	.84	.80	.28	.34
30	.10	.91	.92	7.00	.40	.31	10.09	.29	.69	.87	-	.29
31	-	8.10	-	.23	.45	-	.28	-	.70	.93	-	.26
Mean	7.09	7.41	7.75	7.39	9.25	12.10	11.65	9.35	8.99	8.15	7.32	7.13
Max.	7.34	8.10	8.62	8.67	12.45	12.50	12.67	11.19	9.31	8.69	7.95	7.40
Min.	6.91	7.01	6.92	6.91	7.59	11.42	9.83	8.22	8.69	7.71	7.00	6.90

WATER YEAR 1971 : Max. 12.67 m. Min. 6.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	103	79	297	57	144	1,474	1,416	895	392	344	203	95
2	67	79	317	57	221	1,474	1,408	1,003	410	277	175	78
3	74	78	329	60	307	1,478	1,447	1,017	453	263	142	68
4	79	78	329	79	340	1,482	1,447	971	419	219	135	61
5	81	77	329	97	319	1,486	1,447	940	412	217	128	59
6	91	68	325	111	325	1,486	1,466	886	392	216	117	58
7	85	90	325	124	321	1,435	1,490	856	379	248	113	58
8	85	109	323	123	331	1,420	1,518	801	442	285	113	58
9	72	124	266	131	313	1,381	1,535	739	435	268	114	57
10	73	135	248	157	305	1,374	1,556	648	430	263	113	56
11	90	138	210	208	270	1,363	1,552	591	484	263	113	56
12	103	157	208	131	263	1,363	1,526	559	487	250	113	56
13	109	145	149	121	275	1,378	1,543	500	481	264	113	67
14	98	128	141	106	214	1,344	1,498	497	435	305	110	91
15	89	158	135	92	151	1,290	1,466	474	430	305	101	110
16	79	182	160	85	149	1,164	1,378	405	403	305	91	103
17	67	162	146	85	184	1,126	1,315	381	366	305	80	91
18	60	139	127	117	221	1,093	1,286	325	375	299	69	87
19	59	118	127	157	263	1,093	1,206	303	379	259	68	97
20	59	101	131	205	291	1,109	1,106	257	386	214	68	117
21	68	90	131	340	340	1,122	1,013	252	368	198	67	116
22	58	90	118	228	426	1,225	931	263	401	210	86	102
23	57	90	116	142	588	1,304	910	255	408	199	96	86
24	57	89	116	124	761	1,348	859	252	412	185	101	84
25	67	89	116	116	1,000	1,348	792	263	430	165	92	84
26	75	102	104	103	1,175	1,340	708	279	430	189	92	90
27	85	114	89	85	1,293	1,378	658	303	·412	201	97	90
28	87	121	78	73	1,311	1,389	622	264	394	162	101	98
29	79	194	61	59	1,381	1,393	635	263	377	177	101	109
30	79	196	58	67	1,447	1,412	691	264	344	189	–	102
31	–	230	–	95	1,466	–	744	–	346	199	–	98
Total	2,335	3,750	5,609	3,737	16,395	40,072	37,169	15,706	12,712	7,443	3,112	2,582
Mean	77.8	121	187	120	529	1,356	1,199	523	410	240	107	83.3
Max.	109	230	329	340	1,466	1,486	1,556	1,017	487	344	203	117
Min.	57	68	58	57	144	1,093	622	252	344	162	67	56
Runoff - mcm.	201.744	324.000	484.618	322.704	1,416.528	3,462.221	3,211.402	1,356.998	1,098.317	643.075	268.877	223.085

WATER YEAR 1971 : Max. 1,556 Min. 56 Mean 411 Annual Runoff 13,013.568 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	09.00	12.68	1,560				

CHAO PHYA RIVER BASIN

Chao Phya River at Wat Chula Mani, Phra Nakhon Si Ayutthaya (C. 15)

Location: Lat. 14°–25'–35" N., Long 100°–29'–11" E., On left bank infront of Wat Chula Mani, 100 meters upstream from confluence with Khlong Bang Ban, Amphoe Bang Ban Ayutthaya.

Drainage Area: Flood plain.

Type of Gage: Staff gage .

Zero Gage at Bottom at: – 0.20 m (M.S.L.)

Bench Mark: B.M.–C.15 about 15 meters from B.M.–H.S./RID No.9

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: Fairly Stable by some silting no shifting adjustment for flow computation for year without actual ratings.

Overbank Flow Conditions: Overbank flow starts of elevation + 3.90 m (M.S.L.) but hardly to be determined. Records are channel flow only.

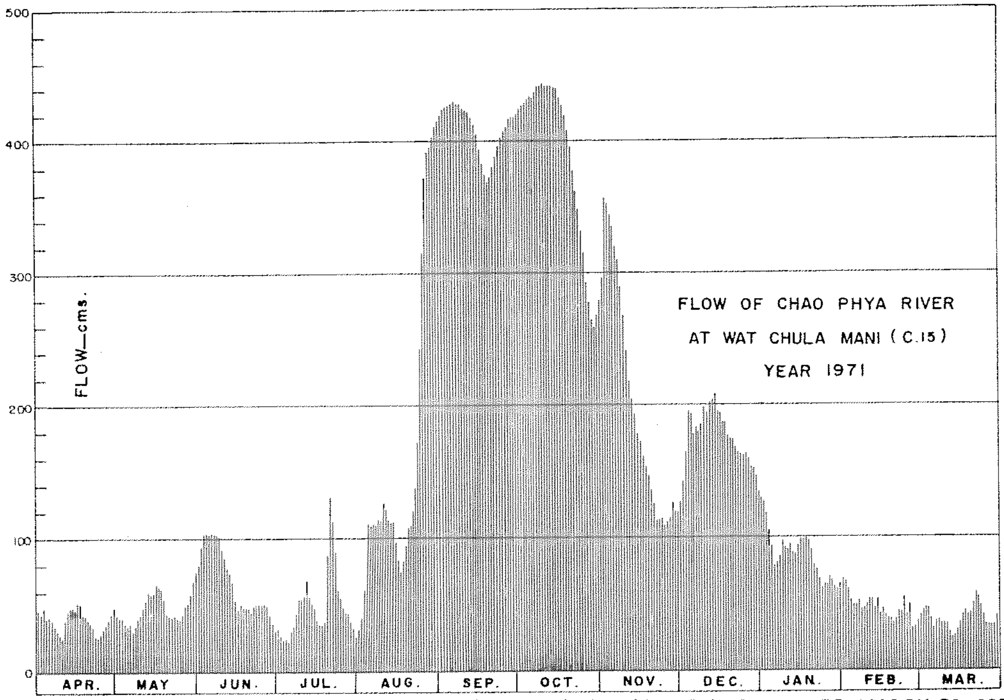
General Description: Record fair. Stage–discharge relationship used is defined by discharge mesurements made during 1955. Flow regulated by Chao Phya Diversion Dam at Chai Nat. No adjustment made for virgin flow.

Remarks: * Estimated flow by ploting discharge hydrograph.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	0.62	1.15	0.45	0.49	4.07	4.10	3.14	1.75	1.71	1.00	0.63
2	.63	.60	.35	.34	.62	.09	.12	.29	.91	.68	0.97	.68
3	.71	.60	.43	.32	.94	.11	.14	.64	2.09	.53	.91	.70
4	.59	.53	.43	.33	1.32	.13	.15	.61	.35	.41	.79	.68
5	.61	.48	.42	.28	.51	.13	.17	.56	.33	.20	.73	.59
6	0.56	0.54	1.43	0.46	1.49	4.14	4.17	3.48	2.19	1.13	0.73	0.45
7	.48	.44	.42	.52	.51	.15	.17	.38	.24	.17	.77	.54
8		.50	.42	.72	.48	.14	.21	.30	.21	.22	.68	.57
9		.61	.40	.81	.53	.13	.22	.15	.30	.36	.71	.55
10	.33	.65	.26	.81	.52	.12	.22	2.98	.39	.28	.76	.55
11	0.58	0.73	1.19	0.86	1.66	4.11	4.23	2.75	2.33	1.28	0.80	0.51
12	.66	.78	.09	.99	.57	.10	.22	.56	.42	.32	.78	.40
13	.71	.89	.05	.79	.51	.09	.22	.43	.44	.24	.70	.32
14	.71	.85	0.90	.75	.53	.06	.22	.26	.47	.24	.78	.38
15	.69	.87	.74	.69	.45	.03	.21	.19	.35	.34	.65	.47
16	0.77	0.95	0.69	0.51	1.18	3.97	4.20	2.13	2.34	1.37	0.69	0.57
17	.74	.92	.75	.52	.08	.88	.17	.03	.28	.38	.61	.64
18	.63	.89	.71	.52	.21	.82	.13	1.96	.27	.37	.59	.67
19	.61	.78	.71	.57	.35		.09	.90	.18	.34	.58	.63
20	.56	.64	.70	1.28	.49		.01	.78	.16	.26	.56	.66
21	0.53	0.61	0.65	1.71	1.50		3.93	1.65	2.15	1.11	0.58	0.74
22	.49	.60	.75	.56	.71		.81	.53	.09	.08	.67	.86
23	.37	.63	.75	.24	2.01	3.90	.65	.54	.06	0.99	.66	.81
24	.36	.59	.75	0.88	.43	.95	.58	.54	.05	.90	.82	.67
25	.43	.58	.73	.81	3.04	.99	.47	.49	.04	.95	.63	.60
26	0.48	0.70	0.74	0.70	3.49	4.01	3.32	1.52	2.06	0.95	0.74	0.50
27	.51	.75	.72	.65	.79	.03	.15	.56	.02	1.01	.46	.50
28	.61	.76	.59	.64	.91	.07	.01	.68	1.95	0.98	.47	.50
29	.66	.81	.58	.54	.93	.08	2.93	.61	.94	.93	.56	.54
30	.72	1.00	.44	.47	4.01	.09	.89	.61	.88	.91	–	.62
31	–	.07	–	.33	.04	–	3.03	–	.75	–	–	.65
Mean		0.71	0.96	0.71	1.94		3.87	2.37	2.16		0.70	0.59
Max.	0.77	1.07	1.43	1.71	4.04	4.15	4.23	3.64	2.47	1.71	1.00	0.86
Min.	0.33	0.44	0.44	0.28	0.49	–	2.89	1.49	1.75	0.90	0.46	0.32

WATER YEAR 1971 : Max. 4.23 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	46	41	81	31	33	417	422	288	133	129	69	42
2	42	40	97	24	41	420	425	308	149	127	67	46
3	48	40	104	23	64	424	428	356	167	113	62	47
4	39	36	104	24	95	427	430	351	195	102	53	46
5	41	33	103	21	111	427	433	344	193	85	49	39
6	38	36	104	32	109	428	433	333	178	79	49	31
7	33	30	103	35	111	430	433	319	183	83	52	36
8	30*	34	103	48	108	428	440	309	180	87	46	38
9	27*	41	101	55	113	427	441	289	189	98	48	37
10	24	43	90	55	112	425	441	268	199	91	51	37
11	39	49	84	58	125	424	443	240	193	91	54	35
12	44	53	76	68	116	422	441	218	202	95	53	28
13	48	60	73	53	111	420	441	203	204	88	47	23
14	48	57	61	50	113	416	441	185	208	88	53	27
15	46	59	50	46	105	411	440	178	195	96	43	32
16	52	65	46	35	83	402	440	172	194	99	46	38
17	50	63	50	35	75	389	433	161	187	99	41	43
18	42	60	48	35	86	381	427	154	186	99	39	45
19	41	53	48	38	97	372	420	148	177	96	39	42
20	38	43	47	91	109	368	408	136	175	90	37	44
21	36	41	43	129	110	375	396	124	174	78	39	50
22	33	40	50	115	129	384	379	113	167	75	45	58
23	26	42	50	88	159	392	357	114	164	68	44	55
24	26	39	50	60	203	399	347	114	163	61	55	45
25	30	39	49	55	275	404	332	109	162	65	42	40
26	33	47	50	47	335	408	312	112	164	65	50	34
27	35	50	48	43	377	411	289	115	160	70	32	34
28	41	51	39	43	393	417	271	127	153	67	32	34
29	44	55	34	36	396	419	262	120	152	63	38	36
30	48	69	30	32	407	420	257	120	146	62	–	41
31	–	75	–	24	412	–	274	–	133	66	–	43
Total	1,168	1,484	2,016	1,529	5,113	12,287	12,136	6,128	5,425	2,675	1,375	1,226
Mean	38.9	47.9	65.0	49.3	165	409	391	204	175	86.3	49.1	39.5
Max.	52	75	104	129	412	430	443	356	208	129	69	58
Min.	24	30	30	21	33	368	257	109	133	61	32	23
Runoff – mcm.	100.915	128.218	174.182	132.106	441.763	1,061.597	1,048.550	529.459	468.720	231.120	118.800	105.926

WATER YEAR 1971 : Max. 443 Min. 21 Mean 144 Annual Runoff 4,541.357 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	06.00	4.23	443				

CHAO PHYA RIVER BASIN

Wang Kra Thum at Highway Bridge, Lop Buri (C. 24)

Location: Lat. 15^{0}–06'–07" N., Long 100^{0}–42'–58" E., On left bank at bridge on Phahon Yothin Highway, 2.5 kilometers from Amphoe Khok Samrong, Lop Buri.

Drainage Area: 1,281 sq.km

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 20.30 m (M.S.L.)

Bench Mark: B.M.–H.S.
Location: Near left abutment of Wang Kra Thum Bridge.
Elevation: + 26,380 m (M.S.L.)

Gage Reading Frequency: 3–7 time daily readings at 01.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3–7 readings.

Period of Avilable Gage Records: 1966 to date

Rating Operation:
Period of Rating: 1966–1967
Rated by Float: –
Rated by Current Meter: 1966–1967

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

Overbank Flow Conditions: No overbank flow.

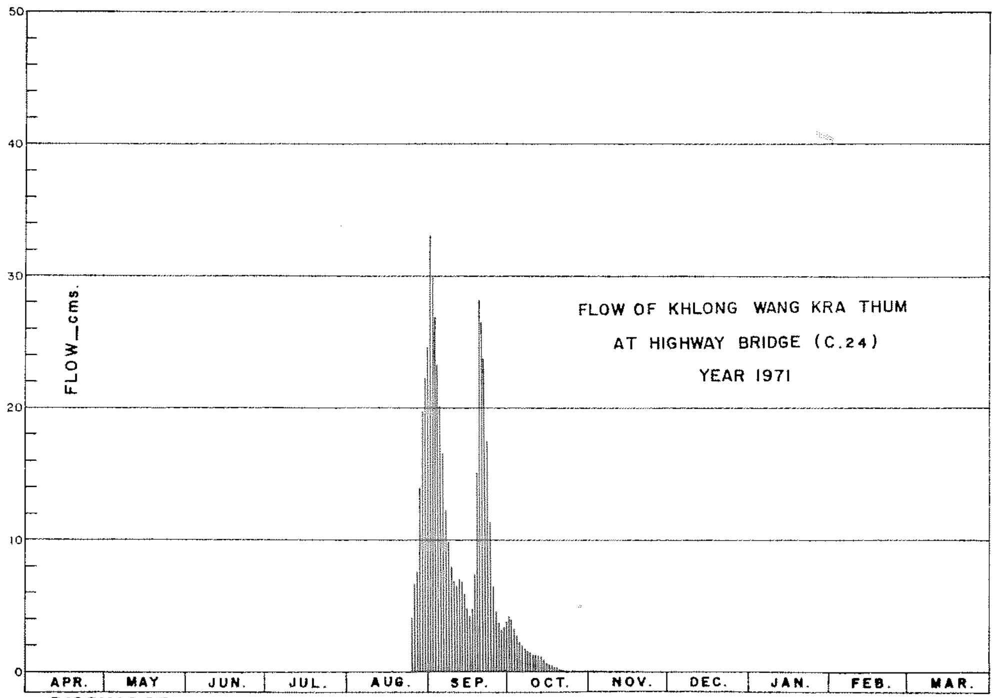
General Description: Records fair. Stage–discharge relationship used in defined by discharge measurements made during 1967. No state diversions for irrigation except those built by local residents. No adjustment made for virgin flow.

Remarks: Records for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.23	19.93	19.79			23.90	22.34	20.36	19.67			
2	.21	.93	.81			.80	.24	.18	.67			
3	.20	.93	.81			.65	.12	.16	.67			
4	.17	.93	20.30			.52	21.98	.13				
5	.16	.93	.30			.34	.87	.11				
6	20.15	19.93	20.30			23.19	21.83	20.11				
7	.14	.94	.30			.06	.73	.19				
8	.12	.94	.30			22.89	.64	.05				
9	.11	.96	.30			.75	.56	.00				
10	.13	.96	.30			.68	.53	19.96				
11	20.12	19.96	0.30			22.66	21.51	19.93				
12	.11	.96	.30			.72	.45	.90				
13	.11	.95	.30			.69	.40	.87				
14	.10	.95	.30			.56	.27	.83				
15	.08	.94	.30			.42	.18	.82				
16	20.07	19.93	20.30			22.34	21.13	19.81				
17	.06	.92	.30			.45	.06	.80				
18	.04	.90	.30			.91	20.96	.79				
19	.03	.90	.30			23.49	.85	.77				
20	.02	.90	.30			.77	.79	.76				
21	20.01	19.89	20.30			23.65	20.73	19.75				
22	.01	.89	.30			.36	.66	.74				
23	.00	.88	.30			.20	.58	.74				
24	19.99	.87	.30			22.86	.52					
25	.95	.87	.30		22.31	.55	.44					
26	19.94	19.87	20.30		22.72	22.39	20.38					
27	.93	.87	.30		.80	.24	.33					
28	.93	.86	.30		23.24	.15	.28					
29	.93	.86	.30		.54	.22	.24					
30	.93	.86	.30		.59	.32	.23					
31	–	.86	–		.68	–	.25					
Mean	20.06	19.91	20.25			22.92	21.13					
Max.	20.23	19.96	20.30		23.68	23.90	22.34					
Min.	19.93	19.86	19.79			22.15	20.23					

WATER YEAR 1971 : Max. 23.90 m. Min. 19.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						33	4.24	0.00	0.00			
2						29	3.64	0.00	0.00			
3						24	3.08	0.00	0.00			
4						21	2.52	0.00				
5						17	2.11	0.00				
6						14	1.99	0.00				
7						11	1.76	0.00				
8						9.08	1.58	0.00				
9						7.45	1.42	0.00				
10						6.72	1.36	0.00				
11						6.54	1.32					
12						7.12	1.20					
13						6.81	1.10					
14						5.68	0.84					
15						4.72	0.66					
16						4.24	0.56					
17						4.90	0.46					
18						9.34	0.36					
19						20	0.25					
20						28	0.19					
21						24	0.13					
22						17	0.06					
23						14	0.00					
24						8.72	0.00					
25					4.06	5.60	0.00					
26					7.12	4.54	0.00					
27					8.00	3.64	0.00					
28					15	3.20	0.00					
29					21	3.52	0.00					
30					23	4.12	0.00	0.00				
31					25	–	0.00	–				
Total					103.18	357.94	30.83	0.00	0.00			
Mean					3.33	11.9	0.99	0.00				
Max.					25	33	4.24	0.00				
Min.					0.00	3.20	0.00	0.00				
Runoff - mcm.					8.915	30.926	2.664	0.00				

WATER YEAR 1971 : Max. 33 Min. 0.00 Mean 1.35 Annual Runoff 42.504 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 1	18.00	23.93	34				

CHAO PHYA RIVER BASIN

Huai Yai at Ban Maha Phot, Lop Buri (C. 25)

Location: Lat. 15°-15'-12" N., Long 100°-51'-45" E., On left bank about 2.5 kilometers North-East of Amphoe Khok Samrong at Ban Maha Phot, Amphoe Khok Samrong, Lop Buri.

Drainage Area: 68 sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M.-H.S.
- Location: Near the C.25 station office.
- Elevation: + 5.20 m (A.D.)

Gage Reading Frequency: 8-time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 8 readings.

Period of Available Gage Records: 1966-1972

Rating Operation:
- Period of Rating: 1966-1972
- Rated by Float: -
- Rated by Current Meter: 1966-1972

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

Overbank Flow Conditions: No overbank flow.

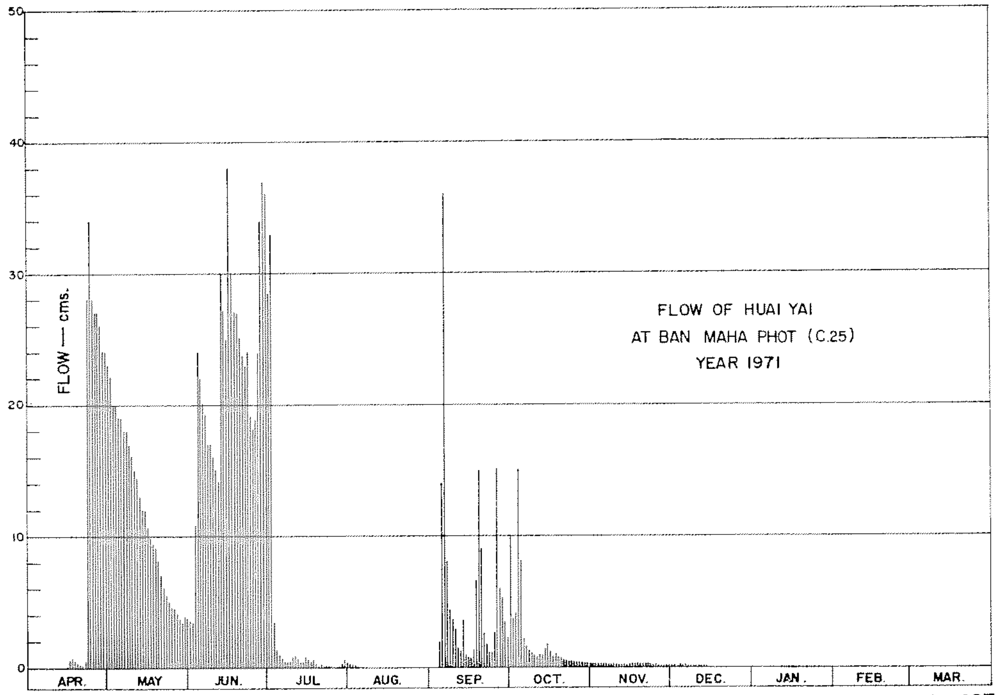
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

Remark: Records for period of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					0.81	0.83	0.61	0.56				
2					.83	.79	.60	.55				
3					.84	.77	.60	.54				
4					.86	.75	.58	.53				
5					.87	.70	.57	.52				
6					0.88	0.67	0.54	0.51				
7					.88	.67	.53	.50				
8					.83	.67	.64	.49				
9					.79	.65	.75	.48				
10					.75	.66	.82	.45				
11					0.73	0.66	0.78	0.44				
12					.67	.64	.74	.41				
13					.58	.66	.72	.39				
14					.46	.67	.68	.36				
15					.40	1.04	.64	.32				
16					0.43	1.56	0.63	0.27				
17					.50	.61	.61	.24				
18					.50	.26	.59	.21				
19					1.16	0.98	.58	.18				
20					.21	.85	.57	.16				
21					1.69	0.76	0.56	0.14				
22					0.90	.72	.56	.12				
23					.87	.69	.56	.11				
24					.82	.66	.55	.09				
25					.77	.63	.55	.09				
26					0.99	0.65	0.55	0.08				
27					1.99	.66	.55	.07				
28					.15	.74	.55	.06				
29					.16	.72	.56	.04				
30					.01	.63	.56	.03				
31					0.95	-	.57	-				
Mean					0.88	0.80	0.61	0.30				
Max.					1.99	1.61	0.82	0.56				
Min.					0.40	0.63	0.55	0.03				

WATER YEAR 1971 : Max. 10 m. Min. 0.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					0.64	0.72	0.12	0.06				
2					0.72	0.57	0.10	0.05				
3					0.76	0.51	0.10	0.04				
4					0.84	0.45	0.08	0.03				
5					0.88	0.30	0.07	0.02				
6					0.92	0.24	0.04	0.01				
7					0.92	0.24	0.03	0.00				
8					0.72	0.24	0.18					
9					0.57	0.20	0.45					
10					0.45	0.22	0.68					
11					0.39	0.22	0.54					
12					0.24	0.18	0.52					
13					0.08	0.22	0.36					
14					0.00	0.24	0.26					
15					0.00	1.74	0.18					
16					0.00	5.70	0.16					
17					0.00	6.20	0.12					
18					0.00	3.12	0.09					
19					2.46	1.40	0.08					
20					2.77	0.80	0.07					
21					7.00	0.48	0.06					
22					1.00	0.36	0.06					
23					0.88	0.28	0.06					
24					0.68	0.22	0.05					
25					0.51	0.16	0.05					
26					1.45	0.20	0.05					
27					10	0.22	0.05					
28					2.40	0.42	0.05					
29					2.46	0.36	0.06					
30					1.56	0.16	0.06					
31					1.25	-	0.07					
Total					42.55	26.57	4.85	0.21				
Mean					1.37	0.89	0.16	0.007				
Max.					10	6.20	0.68	0.06				
Min.					0.00	0.16	0.03	0.00				
Runoff - mcm.					3.676	2.296	0.396	0.018				

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

SAKAE KRANG RIVER BASIN

Huai Thap Salao at Ban Prada Hak, UthaiThani (Ct. 3)

Location:	Lat. 15°-24'-19" N., Long 99°-42'-40" E., On right bank about 4 kilometers downstream from the local residents weir at Ban Prada Hak, Amphoe Nong Chang, Uthai Thani.
Drainage Area:	791 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.-H.S.
Location:	Near the gage site
Elevation:	+ 4.671 m (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1967-1973
Rating Operation:	
Period of Rating:	1967-1968
Rated by Float:	-
Rated by Current Meter:	1967-1968
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. The data presented is made by discharge measurements during 1968. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.
Remarks:	No records on January 22 - 31, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.07	0.25	0.40	0.01	0.94	0.79	2.08	0.19	0.06	0.09	0.17
2	.12	.08	.29	.39	.01	1.06	.78	1.65	.19	.06	.09	.17
3	.12	.10	.31	.36	.04	.04	.91	.39	.18	.06	.09	.17
4	.11	.10	.28	.37	.06	.04	.93	.25	.18	.05	.09	.16
5	.10	.12	.27	.51	.05	.13	.95	.06	.17	.05	.10	.15
6	0.10	0.19	0.27	0.50	0.04	1.18	0.91	1.01	0.16	0.05	0.10	0.15
7	.10	.21	.24	.45	.03	.06	.82	0.91	.16	.05	.10	.16
8	.09	.24	.26	.43	.03	0.95	.79	.83	.15	.04	.10	.17
9	.11	.27	.23	.38	.02	.82	.85	.76	.15	.04	.11	.17
10	.09	.27	.11	.36	.03	1.28	.87	.77	.15	.04	.11	.18
11	0.09	0.28	0.07	0.39	0.03	1.27	0.81	0.66	0.14	0.03	0.12	0.18
12	.09	.27	.05	.33	.04	.01	.83	.62	.14	.03	.12	.18
13	.08	.26	.09	.31	.06	0.83	1.06	.59	.12	.03	.12	.18
14	.08	.23	.12	.25	.06	.73	.02	.54	.11	.03	.12	.17
15	.07	.25	.33	.25	.04	.83	0.90	.50	.11	.02	.12	.16
16	0.07	0.27	0.49	0.23	0.03	0.88	0.80	0.48	0.10	0.02	0.13	0.15
17	.06	.27	.46	.20	.05	.82	.73	.47	.10	.02	.13	.15
18	.06	.26	.38	.18	.08	1.02	.69	.43	.10	.02	.13	.16
19	.14	.26	.33	.16	.09	.22	.60	.39	.09	.02	.14	.16
20	.19	.28	.28	.14	.10	.21	.55	.38	.08	.02	.14	.16
21	0.19	0.26	0.24	0.14	0.10	1.26	0.50	0.35	0.08	0.01	0.14	0.15
22	.26	.28	.20	.17	.17	.11	.48	.34	.08		.15	.16
23	.24	.25	.19	.18	.29	0.96	.44	.32	.08		.15	.16
24	.22	.24	.17	.17	.67	.85	.42	.30	.08		.16	.17
25	.19	.24	.15	.15	.72	.75	.40	.27	.07		.16	.17
26	0.16	0.25	0.15	0.15	1.02	0.72	0.44	0.25	0.07		0.17	0.05
27	.14	.25	.15	.14	.20	.70	1.91	.24	.07		.17	.05
28	.11	.20	.20	.13	.51	.74	2.56	.23	.06		.17	.09
29	.09	.21	.30	.13	.42	.79	.13	.21	.06		.17	.10
30	.08	.20	.37	.13	.16	.82	.31	.20	.05		-	.12
31	-	.20	-	.12	.02	-	.28	-	.05		-	.14
Mean	0.12	0.22	0.24	0.26	0.33	0.97	0.98	0.65	0.11	0.02	0.13	0.15
Max.	0.26	0.28	0.49	0.51	1.51	1.28	2.56	2.08	0.19	0.06	0.17	0.18
Min.	0.06	0.07	0.05	0.12	0.01	0.70	0.40	0.20	0.05	0.00	0.09	0.05

WATER YEAR 1971 : Max. 2.56 m. Min. 0.00 m.

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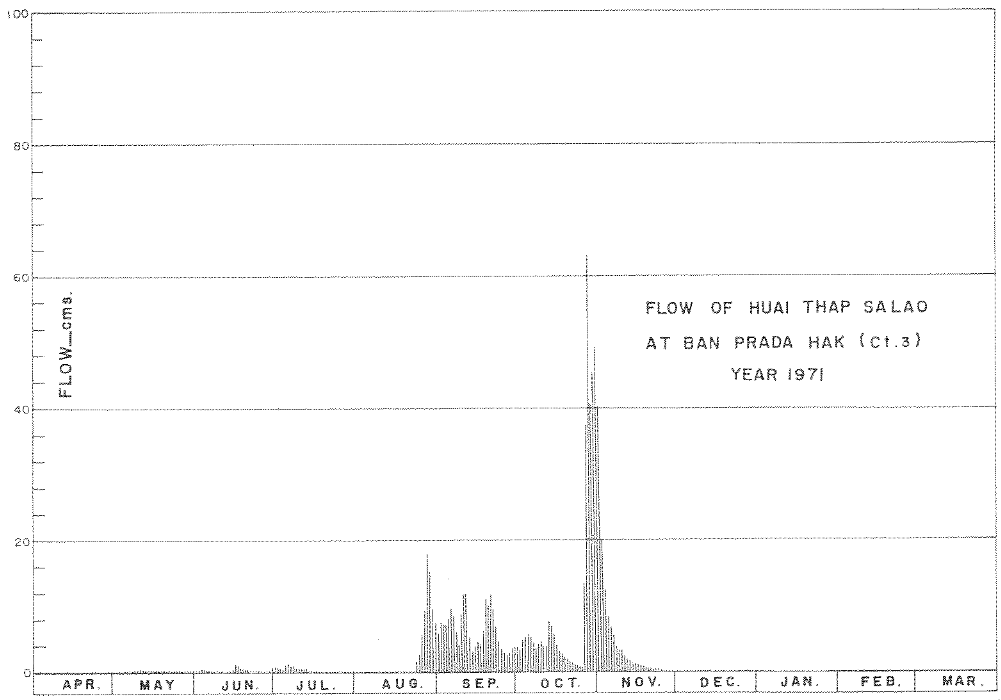


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.13	0.07	0.36	0.80	0.01	5.64	3.64	38	0.23	0.06	0.09	0.20
2	0.13	0.08	0.45	0.77	0.01	7.65	3.54	22	0.23	0.06	0.09	0.20
3	0.13	0.10	0.50	0.67	0.04	7.30	5.16	15	0.22	0.06	0.09	0.20
4	0.11	0.10	0.43	0.70	0.06	7.30	5.48	11	0.22	0.05	0.09	0.19
5	0.10	0.13	0.40	1.36	0.05	8.93	5.80	7.65	0.20	0.05	0.10	0.17
6	0.10	0.23	0.40	1.30	0.04	9.91	5.16	6.77	0.19	0.05	0.10	0.17
7	0.10	0.27	0.34	1.05	0.03	7.65	4.00	5.16	0.19	0.05	0.10	0.19
8	0.09	0.34	0.38	0.95	0.03	5.80	3.64	4.12	0.17	0.04	0.10	0.20
9	0.11	0.40	0.32	0.73	0.02	4.00	4.37	3.33	0.17	0.04	0.11	0.20
10	0.09	0.40	0.11	0.67	0.03	12	4.62	3.43	0.17	0.04	0.11	0.22
11	0.09	0.43	0.07	0.77	0.03	12	3.87	2.40	0.16	0.03	0.13	0.22
12	0.09	0.40	0.05	0.57	0.04	6.77	4.12	2.10	0.16	0.03	0.13	0.22
13	0.08	0.38	0.09	0.50	0.06	4.12	7.65	1.88	0.13	0.03	0.13	0.22
14	0.08	0.31	0.13	0.36	0.06	3.01	6.95	1.56	0.11	0.03	0.13	0.20
15	0.07	0.36	0.57	0.36	0.04	4.12	5.00	1.30	0.11	0.02	0.13	0.19
16	0.07	0.40	1.25	0.32	0.03	4.75	3.75	1.20	0.10	0.02	0.14	0.17
17	0.06	0.40	1.10	0.25	0.05	4.00	3.01	1.15	0.10	0.02	0.14	0.17
18	0.06	0.38	0.73	0.22	0.08	6.95	2.62	0.95	0.10	0.02	0.14	0.19
19	0.16	0.38	0.57	0.19	0.09	11	1.95	0.77	0.09	0.02	0.16	0.19
20	0.23	0.43	0.43	0.16	0.10	10	1.62	0.73	0.08	0.02	0.16	0.19
21	0.23	0.38	0.34	0.16	0.10	12	1.30	0.63	0.08	0.01	0.16	0.17
22	0.38	0.43	0.25	0.20	0.20	8.54	1.20	0.60	0.08		0.17	0.19
23	0.34	0.36	0.23	0.22	0.45	5.96	1.00	0.54	0.08		0.17	0.19
24	0.29	0.34	0.20	0.20	2.47	4.37	0.90	0.47	0.08		0.19	0.20
25	0.23	0.34	0.17	0.17	2.91	3.22	0.80	0.40	0.07		0.19	0.20
26	0.19	0.36	0.17	0.17	6.95	2.91	1.00	0.36	0.07		0.20	0.05
27	0.16	0.36	0.17	0.16	10	2.70	31	0.34	0.07		0.20	0.05
28	0.11	0.25	0.25	0.14	18	3.12	63	0.32	0.06		0.20	0.09
29	0.09	0.27	0.47	0.14	15	3.64	40	0.27	0.06		0.20	0.10
30	0.08	0.25	0.70	0.14	9.52	4.00	49	0.25	0.05		–	0.13
31	–	0.25	–	0.13	6.95	–	47	–	0.05		–	0.16
Total	4.18	9.58	11.63	14.53	73.45	193.36	322.15	134.68	3.88	0.75	4.05	5.43
Mean	0.14	0.31	0.39	0.47	2.37	6.44	10.4	4.49	0.12	0.024	0.14	0.17
Max.	0.38	0.43	1.25	1.36	18	12	63	38	0.23	0.06	0.20	0.22
Min.	0.06	0.07	0.05	0.13	0.01	2.70	0.80	0.25	0.05	0.00	0.09	0.05
Runoff - mcm.	0.361	0.828	1.005	1.255	6.346	16.706	27.834	11.636	0.335	0.065	0.350	0.469

WATER YEAR 1971 : Max. 63 Min. 0.00 Mean 2.13 Annual Runoff 67.791 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.28	12.00	2.65	68				

Mae Wang at Ban Pang Makha, Kamphaeng Phet (Ct. 5A)

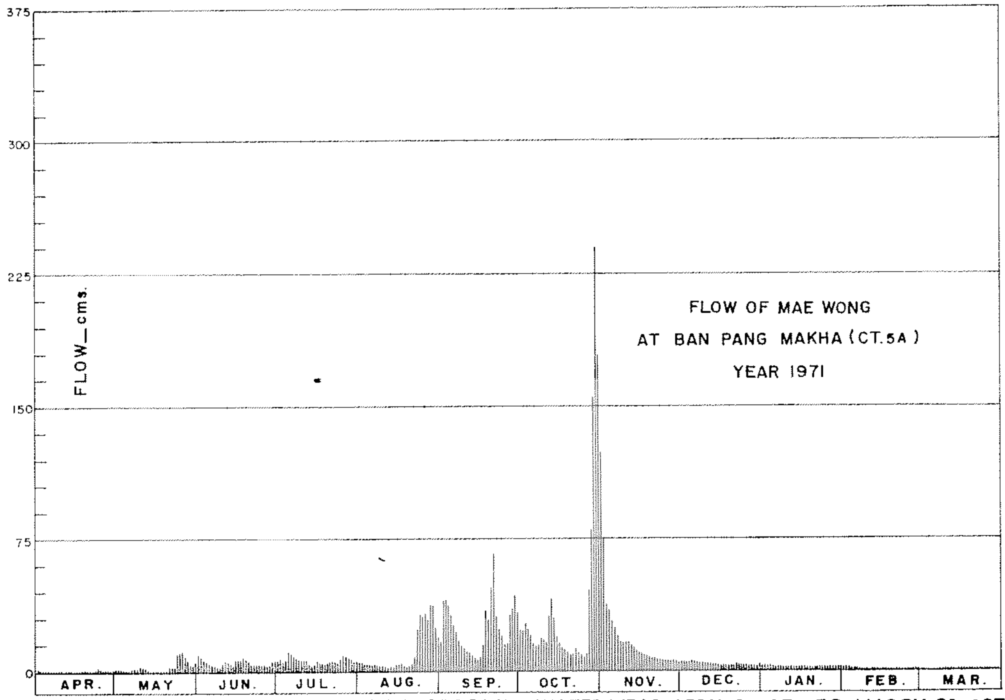
Location:	Lat. 15°-54'-10" N., Long. 99°-28'-45" E., on left bank behind of Wat Pang Makha, Amphoe Khanuworalaksa Buri, Kamphaeng Phet.
Drainage Area:	833 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - R.I.D.
Location:	Near automatic gage building.
Elevation:	+ 4.189 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1968 to date.
Rating Operation:	
Period of Rating:	1968-1974, 1975 to date.
Rated by Float:	-
Rated by Current Meter:	1968-1974, 1975 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation and including overhead flow.
Overbank Flow Conditions:	Overbank flow starts at + 4.00 m. (A.D.)
General Description:	Records good Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.17	0.70	0.57	0.47	1.05	1.31	2.86	0.49	0.32	0.17	0.09
2	.15	.15	.60	.54	.44	.94	.31	.31	.47	.31	.16	.08
3	.12	.11	.50	.48	.41	.94	.46	1.92	.46	.30	.16	.08
4	.12	.09	.44	.58	.39	.71	.33	.66	.45	.30	.16	.08
5	.13	.09	.37	.76	.37	.54	.19	.47	.44	.29	.15	.07
6	0.13	0.11	0.34	0.70	0.36	1.40	1.03	1.31	0.43	0.28	0.15	0.07
7	.13	.18	.32	.66	.35	.17	0.94	.17	.42	.27	.14	.08
8	.13	.20	.29	.61	.35	.02	.96	.07	.41	.26	.14	.08
9	.08	.24	.28	.52	.35	0.91	1.14	.00	.40	.26	.13	.08
10	.08	.28	.37	.52	.32	.87	.06	.02	.39	.25	.14	.08
11	0.08	0.22	0.50	0.55	0.29	0.78	1.00	1.06	0.38	0.24	0.13	0.08
12	.09	.18	.47	.47	.25	.71	.58	0.95	.37	.24	.13	.08
13	.09	.15	.42	.43	.28	.65	.87	.86	.37	.23	.13	.08
14	.08	.14	.38	.40	.29	.60	.39	.80	.37	.23	.11	.07
15	.08	.15	.54	.48	.38	.58	.16	.76	.36	.23	.11	.06
16	0.09	0.13	0.57	0.50	0.38	0.69	1.00	0.73	0.35	0.22	0.11	0.06
17	.10	.13	.51	.46	.34	1.16	0.92	.69	.34	.22	.11	.07
18	.08	.10	.60	.42	.32	.70	.83	.67	.34	.22	.10	.07
19	.10	.11	.52	.41	.29	.53	.78	.64	.33	.22	.10	.07
20	.12	.12	.43	.47	.32	2.01	.73	.63	.32	.21	.09	.07
21	0.13	0.25	0.37	0.51	0.36	2.35	0.73	0.60	0.32	0.20	0.09	0.07
22	.11	.27	.35	.50	.68	1.60	.85	.58	.40	.20	.10	.07
23	.16	.28	.34	.47	1.32	.29	.78	.56	.36	.19	.10	.07
24	.19	.68	.33	.46	.61	.12	.68	.54	.34	.19	.11	.07
25	.14	.77	.33	.62	.58	0.98	.64	.53	.32	.19	.11	.07
26	0.11	0.78	0.31	0.73	1.63	0.92	0.67	0.51	0.31	0.18	0.11	0.07
27	.11	.65	.33	.67	.47	1.60	1.71	.53	.30	.18	.11	.07
28	.09	.51	.35	.62	.75	.74	2.52	.51	.30	.17	.11	.07
29	.11	.39	.44	.56	.76	.91	3.34	.50	.30	.17	.11	.07
30	.11	.39	.51	.54	.38	.57	.70	.49	.34	.16	-	.07
31	-	.47	-	.51	.10	-	.56	-	.36	.16	-	.07
Mean	0.11	0.27	0.43	0.54	0.70	1.30	1.36	0.96	0.37	0.23	0.12	0.07
Max.	0.19	0.78	0.70	0.76	1.76	2.35	3.70	2.86	0.49	0.32	0.17	0.09
Min.	0.08	0.09	0.28	0.40	0.25	0.58	0.64	0.49	0.30	0.16	0.09	0.06

WATER YEAR 1971 : Max. 3.70 m. Min. 0.06 m.

สท. 55



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.54	1.63	9.60	7.12	5.52	17	23	108	5.84	3.36	1.63	0.94
2	1.45	1.45	7.60	6.64	5.04	40	23	64	5.52	3.23	1.54	0.88
3	1.18	1.09	6.00	5.68	4.56	40	27	43	5.36	3.10	1.54	0.88
4	1.18	0.94	5.04	7.28	4.27	35	24	34	5.20	3.10	1.54	0.88
5	1.27	0.94	4.01	11	4.01	30	20	28	5.04	2.98	1.45	0.82
6	1.27	1.09	3.62	9.60	3.88	25	16	23	4.88	2.86	1.45	0.82
7	1.27	1.72	3.36	8.80	3.75	20	14	20	4.72	2.74	1.36	0.88
8	1.27	1.90	2.98	7.80	3.75	16	15	17	4.56	2.62	1.36	0.88
9	0.88	2.38	2.86	6.32	3.75	14	19	16	4.40	2.62	1.27	0.88
10	0.88	2.86	4.01	6.32	3.36	13	17	16	4.27	2.50	1.36	0.88
11	0.88	2.14	6.00	6.80	2.98	11	16	17	4.14	2.38	1.27	0.88
12	0.94	1.72	5.52	5.52	2.50	9.80	31	15	4.01	2.38	1.27	0.88
13	0.94	1.45	4.72	4.88	2.86	8.60	41	13	4.01	2.26	1.27	0.88
14	0.88	1.36	4.14	4.40	2.98	7.60	25	12	4.01	2.26	1.09	0.82
15	0.88	1.45	6.64	5.68	4.14	7.28	19	11	3.88	2.26	1.09	0.76
16	0.94	1.27	7.12	6.00	4.14	9.40	16	10	3.75	2.14	1.09	0.76
17	1.00	1.27	6.16	5.36	3.62	20	14	9.40	3.62	2.14	1.09	0.82
18	0.88	1.00	7.60	4.72	3.36	35	12	9.00	3.62	2.14	1.00	0.82
19	1.00	1.09	6.32	4.56	2.98	29	11	8.40	3.49	2.14	1.00	0.82
20	1.18	1.18	4.88	5.52	3.36	47	10	8.20	3.36	2.02	0.94	0.82
21	1.27	2.50	4.01	6.16	3.88	67	10	7.60	3.36	1.90	0.94	0.82
22	1.09	2.74	3.75	6.00	9.20	32	13	7.28	4.40	1.90	1.00	0.82
23	1.54	2.86	3.62	5.52	24	23	11	6.96	3.88	1.81	1.00	0.82
24	1.81	9.20	3.49	5.36	32	19	9.20	6.64	3.62	1.81	1.09	0.82
25	1.36	11	3.49	8.00	31	15	8.40	6.48	3.36	1.81	1.09	0.82
26	1.09	11	3.23	10	33	14	9.00	6.16	3.23	1.72	1.09	0.82
27	1.09	8.60	3.49	9.00	28	32	35	6.48	3.10	1.72	1.09	0.82
28	0.94	6.16	3.75	8.00	37	36	79	6.16	3.10	1.63	1.09	0.82
29	1.09	4.27	5.04	6.96	37	43	166	6.00	3.10	1.63	1.09	0.82
30	1.09	4.27	6.16	6.64	25	31	240	5.84	3.62	1.54	–	0.82
31	–	5.52	–	6.16	18	–	208	–	3.88	1.54	–	0.82
Total	34.08	98.05	148.21	207.80	352.89	746.68	1,181.60	547.60	126.33	70.24	35.09	26.02
Mean	1.14	3.16	4.94	6.70	11.4	24.9	38.1	18.2	4.07	2.26	1.21	0.84
Max.	1.81	11	9.60	11	37	67	240	108	5.84	3.36	1.63	0.94
Min.	0.88	0.94	2.86	4.40	2.50	7.28	8.40	5.84	3.10	1.54	0.94	0.76
Runoff – mcm.	2.944	8.471	12.805	17.954	30.490	64.513	102.090	47.313	10.915	6.069	3.032	2.248

WATER YEAR 1971 : Max. 240 Min. 0.76 Mean 9.77 Annual Runoff 308.844 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	24.00	4.12	367				

SAKAE KRANG RIVER BASIN

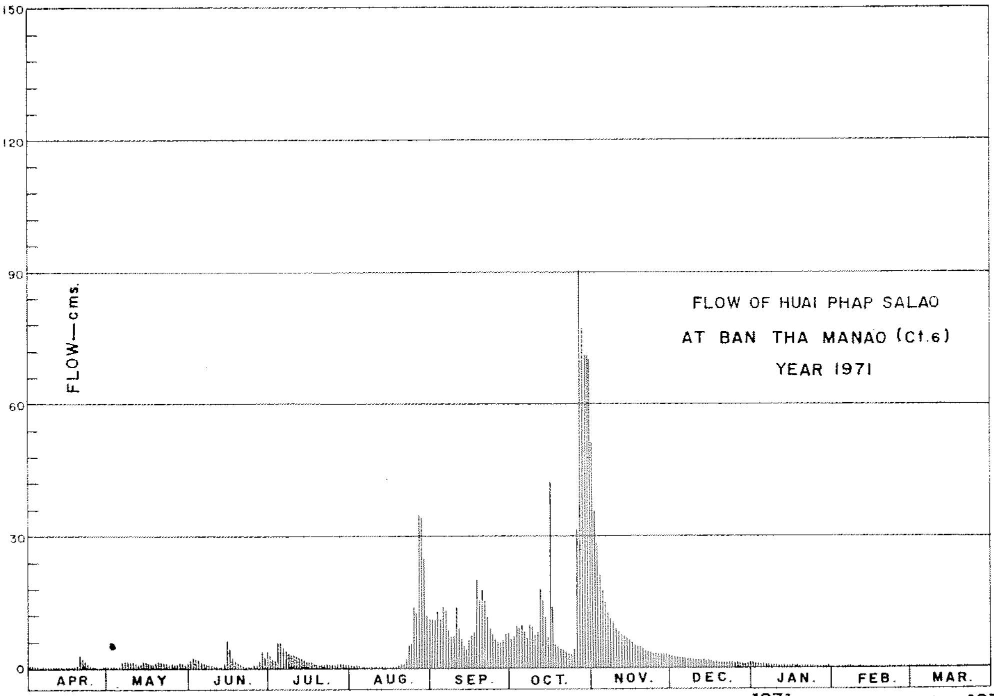
Huai Thap Salao at Ban Tha Manao, Uthai Thani (Ct. 6)

Location:	Lat. 15^{0}–31'–18" N., Long 99^{0}–28'–23" E., On left bank about 3 kilometers upstream from Ban Pak Muang Weir at Ban Tha Manao, Amphoe Ban Rai, Uthai Thani.
Drainage Area:	519 sq.km.
Type of Gage:	Staff gage.
Zero Gage at Bottom at:	+ 0.00 m (A.D.) which equal to + 113.006 m (M.S.L.)
Bench Mark:	B.M.–H.S./RID
Location:	Near the Meteorological Station.
Elevation:	+ 117.639 m (M.S.L.)
Gage Reading Frequency:	6–time daily readings at 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 6 readings.
Period of Available Gage Records:	1969–1975
Rating Operation:	
Period of Rating:	1969–1974
Rated by Float:	–
Rated by Current Meter:	1969–1974
Stability of Channel Regimes:	Fairly Stable by backwater effect, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow, starts at elevation + 2.50 m (A.D.). Records are channel flow only.
General Description:	Records good. Stage–discharge relationship used is defined by discharge measurement made during 1971. No state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.29	0.27	0.48	0.51	0.23	0.97	0.75	1.93	0.62	0.45	0.31	0.27
2	.28	.30	.48	.44	.22	.98	.82	.67	.61	.44	.31	.27
3	.27	.27	.45	.41	.22	1.04	.91	.49	.60	.43	.31	.27
4	.27	.26	.41	* .70	.20	0.97	.90	.38	.59	.43	.31	.27
5	.26	.27	.39	.67	.19	1.09	.93	.27	.58	.42	.30	.26
6	0.26	0.42	0.36	0.60	0.18	1.03	0.83	1.20	0.58	0.41	0.30	0.26
7	.26	.43	.34	.56	.17	0.89	.77	.12	.57	.41	.29	.26
8	.26	.42	.32	.50	.17	.80	.94	.07	.55	.40	.29	.26
9	.25	.41	.30	.46	.17	.82	.90	.02	.54	.39	.29	.25
10	.25	.43	.29	.47	.16	1.06	.81	0.97	.53	.39	.29	.25
11	0.25	0.37	0.28	0.44	0.16	0.87	0.86	0.94	0.52	0.38	0.28	0.25
12	.25	.33	.27	.41	.16	.76	1.21	.91	.52	.37	.28	.25
13	.26	.35	.26	.37	.15	.69	1.11	.90	.52	.37	.28	.25
14	.25	.40	.46	.36	.16	.64	0.95	.86	.51	.37	.27	.25
15	.24	.39	.72	.33	.17	.81	0.77	.83	.50	.36	.27	.25
16	0.24	0.36	0.57	0.32	0.17	0.83	0.80	0.80	0.49	0.36	0.27	0.26
17	.25	.34	.45	.31	.19	.91	0.75	.78	.49	.35	.27	.25
18	.26	.33	.39	.29	.21	1.26	0.71	.76	.48	.35	.27	.25
19	.32	.39	.35	.28	.21	1.11	0.67	.75	.47	.35	.27	.25
20	.53	.38	.31	.27	.22	1.20	0.64	.73	.47	.35	.30	.25
21	0.44	0.39	0.30	0.27	0.25	1.11	0.61	0.71	0.47	0.34	0.30	0.23
22	.38	.37	.29	.26	.46	0.97	.59	.70	.47	.34	.31	.31
23	.33	.34	.30	.25	.66	.89	.57	.69	.47	.34	.31	.25
24	.30	.33	.29	.25	* .68	.82	.56	.66	.46	.33	.30	.23
25	.30	.34	.32	.28	1.06	.76	.55	.65	.45	.33	.30	.23
26	0.26	0.33	0.35	0.28	1.00	0.73	1.41	0.65	0.45	0.33	0.29	0.25
27	.25	.37	.44	.29	1.65	.75	*2.61	.65	.44	.32	.29	.23
28	.28	.37	.58	.28	1.62	.81	.41	.65	.44	.32	.28	.24
29	.25	.36	.49	.26	1.20	.86	.35	.64	.44	.32	.28	.23
30	.25	.36	.59	.25	0.99	.85	.34	.63	.45	.34	–	.23
31	–	.43	–	.24	0.95	–	.33	–	.45	.31	–	.23
Mean	0.28	0.36	0.39	0.34	0.45	0.91	1.08	0.92	0.52	0.37	0.29	0.25
Max.	0.53	0.43	0.72	0.70	1.65	1.26	2.61	1.93	0.62	0.45	0.31	0.31
Min.	0.24	0.26	0.26	0.24	0.15	0.64	0.55	0.63	0.44	0.31	0.27	0.23

WATER YEAR 1971 : Max. 2.61 m. Min. 0.23 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.53	0.44	2.32	2.70	0.80	11	6.00	45	2.84	1.30	0.46	0.34
2	0.49	0.58	2.32	1.86	0.73	11	7.44	32	2.72	1.24	0.46	0.34
3	0.44	0.44	1.97	1.51	0.73	13	9.48	25	2.60	1.18	0.46	0.34
4	0.44	0.40	1.51	6.00	0.60	11	9.20	20	2.50	1.18	0.46	0.34
5	0.40	0.44	1.32	5.58	0.56	14	10	17	2.40	1.12	0.40	0.32
6	0.40	1.63	1.07	4.60	0.52	13	7.66	15	2.40	1.06	0.40	0.32
7	0.40	1.74	0.91	4.11	0.48	8.98	6.40	12	2.30	1.06	0.38	0.32
8	0.40	1.63	0.74	3.30	0.48	7.00	10	11	2.10	1.00	0.38	0.32
9	0.55	1.51	0.58	3.09	0.48	7.44	9.20	10	2.00	0.94	0.38	0.30
10	0.35	1.74	0.53	3.20	0.44	14	7.22	8.80	1.90	0.94	0.38	0.30
11	0.35	1.15	0.49	2.86	0.44	8.54	8.32	8.20	1.80	0.88	0.36	0.30
12	0.35	0.87	0.42	2.53	0.44	6.20	18	7.60	1.80	.82	0.36	0.30
13	0.40	0.99	0.40	1.93	0.40	4.85	15	7.40	1.80	.82	0.36	0.30
14	0.35	1.40	2.09	1.84	0.44	4.10	11	6.68	1.70	.82	0.34	0.30
15	0.30	1.32	6.42	1.55	0.17	7.22	6.40	6.14	1.60	.76	0.34	0.30
16	0.30	1.07	3.59	1.45	0.17	7.66	42	5.66	1.54	0.76	0.34	0.32
17	0.35	0.91	1.97	1.36	0.56	9.48	6.00	5.24	1.54	.70	0.34	0.30
18	0.40	0.82	1.32	1.19	0.67	20	5.20	4.88	1.48	.70	0.34	0.30
19	0.74	1.32	0.99	1.13	0.67	15	4.55	4.70	1.42	.70	0.34	0.30
20	3.00	1.24	0.66	1.06	0.73	18	4.10	4.34	1.42	.70	0.40	0.30
21	1.86	1.32	0.58	1.06	0.93	15	3.65	3.98	1.42	0.64	0.40	0.26
22	1.24	1.15	0.53	0.99	3.09	11	3.38	3.80	1.42	.64	0.46	0.46
23	0.83	0.91	0.58	0.93	5.44	8.98	3.14	3.68	1.42	.64	0.46	0.30
24	0.58	0.83	0.53	0.93	5.72	7.44	3.02	3.32	1.36	.58	0.40	0.26
25	0.58	0.91	0.74	0.93	14	6.20	2.90	3.20	1.30	.58	0.40	0.26
26	0.40	0.83	0.99	0.93	12	5.60	25	3.20	1.30	0.58	0.38	0.30
27	0.35	1.15	1.86	1.19	35	6.00	90	3.20	1.24	.52	0.38	0.26
28	0.49	1.15	3.74	1.13	34	7.22	75	3.20	1.24	.52	0.36	0.28
29	0.35	1.07	2.43	0.99	18	8.32	71	3.08	1.30	.52	0.36	0.26
30	0.35	1.07	3.89	0.93	12	8.10	71	2.96	1.30	.64	–	0.26
31	–	1.74	–	0.86	11	–	70	–	–	.46	–	0.26
Total	17.77	33.77	47.49	63.72	161.69	295.33	621.26	290.26	54.40	25.00	11.28	9.42
Mean	0.59	1.10	1.58	2.13	5.21	9.84	20.0	9.67	1.75	0.806	0.389	0.304
Max.	3.00	1.74	6.42	6.00	35	20	90	45	2.84	1.30	0.46	0.46
Min.	0.30	0.40	0.40	0.86	0.40	4.10	2.90	2.96	1.24	0.46	0.34	0.26
Runoff – mcm.	1.535	2.918	4.103	5.505	13.970	25.515	53.677	25.078	4.700	2.160	0.975	0.814

WATER YEAR 1971 : Max. 90 Min. 0.26 Mean 4.46 Annual Runoff 140.952 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.27	24.00	2.84	107				

THA CHIN RIVER BASIN

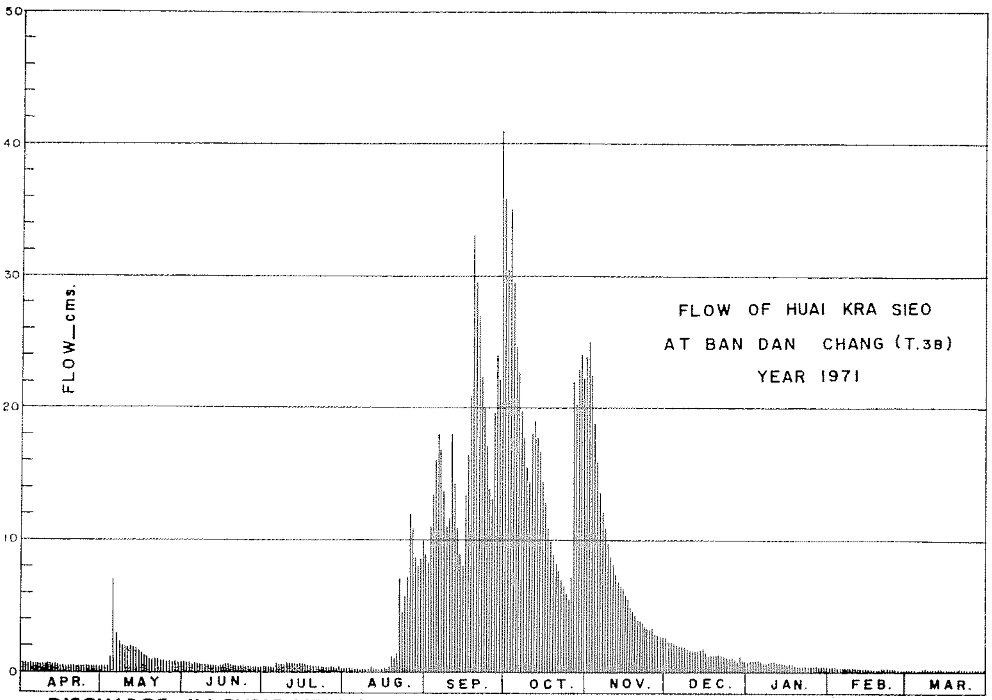
Huai Kra Sieo at Ban Dan Chang, Suphan Buri (T.3B)

Location:	Lat. 14°-49'-03" N., Long 99°-41'-51" E., On left bank at Thep Prachasan Bridge, Ban Dan Chang, Amphoe Doembang Nangbuat, Suphan Buri.
Drainage Area:	1,395 sq.km.
Type of Gage:	Water stage recorder.
Zero Gage at Bottom at:	+ 57.250 m (M.S.L.)
Bench Mark:	B.M.-T.3 B
Location:	Infront of the Autometic gage building.
Elevation:	+ 64.140 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:	1968 to date
Rating Operation:	
Period of Rating:	1969-1973
Rated by Float:	-
Rated by Current Meter:	1969-1973
Stability of Channel Regimes:	Rather Unstable with Variable water surface slope, 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 1971. Flow under construction of Kra Sieo Dam. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	57.40	57.35	57.43	57.33	57.32	58.55	60.71	59.71	57.79	57.45	57.35	57.26
2	.40	.37	.42	.33	.32	.50	.03	.79	.75	.47	.35	.26
3	.39	.37	.42	.33	.32	.87	60.25	.63	.74	.47	.34	.26
4	.40	.37	.41	.34	.30	59.05	.05	.38	.72	.46	.34	.26
5	.39	58.37	.40	.33	.30	.26	59.81	.18	.71	.45	.34	.26
6	57.39	57.89	57.40	57.41	57.30	59.34	59.72	59.03	57.68	57.43	57.34	57.26
7	.38	.82	.39	.39	.29	.20	.48	58.89	.67	.42	.34	.26
8	.38	.71	.38	.39	.29	58.98	.32	.77	.66	.41	.34	.26
9	.38	.68	.38	.39	.29	.79	.19	.66	.64	.44	.33	.26
10	.38	.67	.38	.41	.30	.85	.05	.56	.63	.44	.33	.26
11	57.38	57.68	57.38	57.42	57.36	59.33	59.37	58.48	57.63	57.43	57.33	57.27
12	.38	.70	.37	.41	.29	.13	.39	.42	.62	.43	.32	.28
13	.38	.68	.37	.41	.29	58.79	.33	.36	.61	.42	.31	.28
14	.37	.64	.37	.41	.29	.58	.27	.32	.64	.41	.31	.28
15	.36	.60	.38	.40	.29	.45	.15	.30	.66	.40	.31	.28
16	57.36	57.57	57.38	57.39	57.32	59.02	58.95	58.23	57.60	57.38	57.31	57.29
17	.37	.54	.39	.38	.30	.30	.82	.18	.53	.39	.31	.29
18	.36	.52	.39	.37	.37	.61	.70	.11	.55	.39	.31	.29
19	.36	.49	.37	.36	.52	60.18	.59	.07	.56	.37	.31	.30
20	.36	.49	.36	.35	.50	59.97	.51	.02	.56	.37	.31	.30
21	57.35	57.50	57.36	57.35	57.62	59.87	58.45	57.99	57.56	57.37	57.31	57.30
22	.35	.49	.36	.34	58.39	.59	.38	.97	.55	.37	.31	.30
23	.35	.49	.36	.33	.07	.46	.31	.94	.53	.37	.31	.30
24	.34	.46	.34	.33	.29	57.34	.26	.90	.52	.37	.30	.30
25	.36	.46	.34	.33	.45	.07	.20	.90	.51	.37	.29	.30
26	57.35	57.45	57.33	57.33	58.85	58.99	58.31	57.92	57.52	57.37	57.26	57.30
27	.34	.45	.33	.34	.79	59.45	59.61	.84	.48	.36	.26	.30
28	.33	.45	.33	.31	.53	.70	.50	.83	.44	.36	.26	.30
29	.33	.45	.33	.33	.48	.61	.66	.83	.53	.35	.26	.30
30	.34	.45	.33	.33	.58	60.49	.72	.81	.46	.35	-	.30
31	-	.44	-	.32	.68	-	.59	-	.45	.35	-	.30
Mean	57.37	57.57	57.37	57.36	57.72	59.25	59.21	58.42	57.60	57.40	57.31	57.28
Max.	57.40	58.37	57.43	57.42	58.85	60.49	60.71	59.79	57.79	57.47	57.35	57.30
Min.	57.33	57.35	57.33	57.31	57.29	58.45	58.20	57.81	57.44	57.35	57.26	57.26

WATER YEAR 1971 : Max. 60.71 m. Min. 57.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	0.50	0.82	0.42	0.38	8.70	48	24	2.64	0.90	0.50	0.22
2	0.70	0.58	0.78	0.42	0.38	8.20	30	25	2.40	0.98	0.50	0.22
3	0.66	0.58	0.78	0.42	0.38	12	35	22	2.34	0.98	0.46	0.22
4	0.70	0.58	0.74	0.46	0.30	14	30	19	2.22	0.94	0.46	0.22
5	0.66	7.03	0.70	0.42	0.30	17	25	16	2.16	0.94	0.46	0.22
6	0.66	3.24	0.70	0.74	0.30	18	24	14	2.00	0.82	0.46	0.22
7	0.62	2.82	0.66	0.66	0.28	16	20	12	1.95	0.78	0.46	0.22
8	0.62	2.16	0.62	0.66	0.28	13	18	11	1.90	0.74	0.46	0.22
9	0.62	2.00	0.62	0.66	0.28	11	16	9.80	1.80	0.86	0.42	0.22
10	0.62	1.95	0.62	0.74	0.30	12	14	8.80	1.75	0.86	0.42	0.22
11	0.62	2.00	0.62	0.78	0.54	18	18	8.02	1.75	0.82	0.42	0.24
12	0.62	2.10	0.58	0.74	0.28	15	19	7.48	1.70	0.82	0.38	0.26
13	0.62	2.00	0.58	0.74	0.28	11	18	6.94	1.65	0.78	0.34	0.26
14	0.58	1.80	0.58	0.74	0.28	9.00	17	6.58	1.80	0.74	0.34	0.26
15	0.54	1.60	0.62	0.70	0.28	7.75	15	6.40	1.90	0.70	0.34	0.26
16	0.54	1.45	0.62	0.66	0.38	14	13	5.84	1.60	0.62	0.34	0.28
17	0.58	1.30	0.66	0.62	0.30	17	11	5.44	1.25	0.66	0.34	0.28
18	0.54	1.20	0.66	0.58	0.58	22	10	4.88	1.35	0.66	0.34	0.28
19	0.54	1.06	0.58	0.54	1.20	33	9.10	4.56	1.40	0.58	0.34	0.30
20	0.54	1.06	0.54	0.50	1.10	29	8.30	4.16	1.40	0.58	0.34	0.30
21	0.50	1.10	0.54	0.50	1.70	27	7.75	3.93	1.40	0.58	0.34	0.30
22	0.50	1.06	0.54	0.46	7.21	22	7.12	3.79	1.35	0.58	0.34	0.30
23	0.50	0.98	0.54	0.42	4.56	20	6.49	3.58	1.25	0.58	0.34	0.30
24	0.46	0.94	0.50	0.42	6.32	18	6.08	3.37	1.20	0.58	0.30	0.30
25	0.54	0.94	0.46	0.42	7.75	14	5.60	3.30	1.15	0.58	0.28	0.30
26	0.50	0.90	0.42	0.42	12	13	6.49	3.44	1.20	0.58	0.22	0.30
27	0.46	0.90	0.42	0.46	11	20	22	2.94	1.02	0.54	0.22	0.30
28	0.42	0.90	0.42	0.34	8.50	24	20	2.88	0.86	0.54	0.22	0.30
29	0.42	0.90	0.42	0.42	8.02	22	23	2.88	1.25	0.50	0.22	0.30
30	0.46	0.90	0.42	0.42	9.00	41	24	2.76	0.94	0.50	–	0.30
31	–	0.86	–	0.38	10	–	22	–	0.90	0.50	–	0.30
Total	17.04	47.39	17.76	16.86	94.46	526.65	548.93	254.77	49.48	21.78	10.60	8.22
Mean	0.57	1.53	0.59	0.54	3.05	17.5	17.7	8.49	1.60	0.70	0.36	0.26
Max.	0.70	7.03	0.82	0.78	12	41	48	25	2.64	0.98	0.50	0.30
Min.	0.42	0.50	0.42	0.34	0.28	7.75	5.60	2.76	0.86	0.50	0.22	0.22
Runoff - mcm.	1.472	4.094	1.534	1.457	8.161	45.502	47.427	22.012	4.275	1.882	0.916	0.710

WATER YEAR 1971 : Max. 48 Min. 0.22 Mean 4.41 Annual Runoff 139.444 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.1	01.00	61.03	59				

THA CHIN RIVER BASIN

Huai Mae Thewip at Ban Na Ta Pin, Suphan Buri (T. 5)

Location: Lat. 14^{0}–49'–10" N., Long 99^{0}–39'–52" E., On left bank at Ban Ma Ta Pin, Amphoe Doembang Nangbuat, Suphan Buri.

Drainage Area: 124 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 66.200 m (M.S.L.)

Bench Mark: B.M.-T.5
- Location: 7 meters north of the autometic gage building
- Elevation: + 68.124 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: 1969–1971

Rating Operation:
- Period of Rating: 1969–1971
- Rated by Float: –
- Rated by Current Meter: 1969–1971

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

Overbank Flow Conditions: No overbank flow.

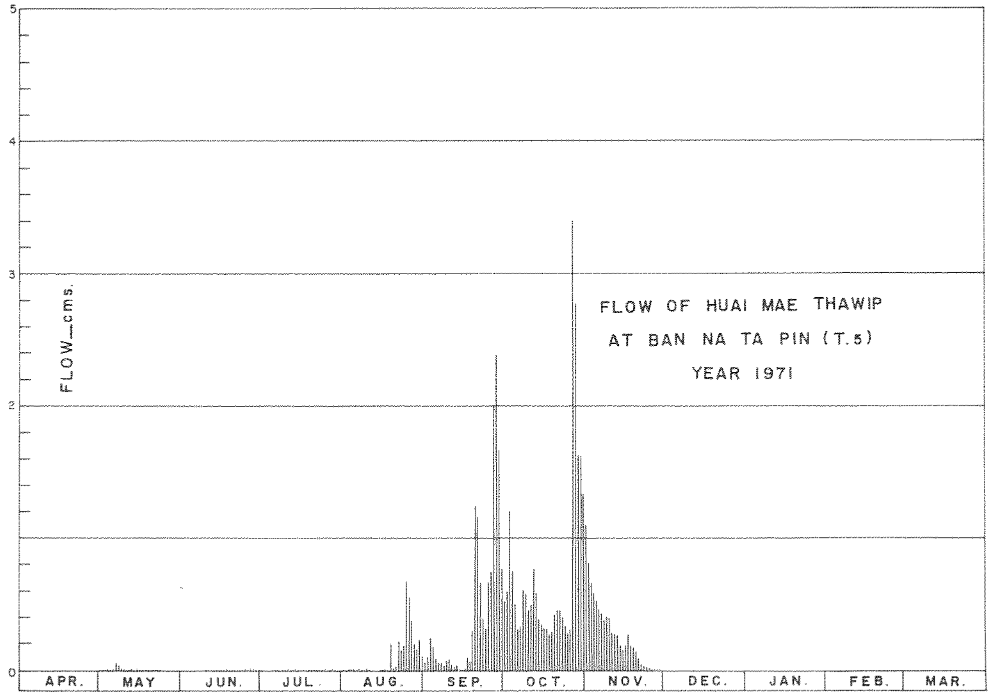
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No state diversions for irrigation above gage site except those built by the local residente. No adjustment made for virgin flow.

Remarks: Records for periods of no flow are omitted because the channel is dry.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		66.29		66.23	66.21	66.73	67.13	67.31				
2		.29		.23	.22	.81	.17	.21				
3		.29		.24	.22	.94	.35	.18				
4		.29		.24	.22	.88	.21	.15				
5		67.05		.28	.22	.77	.11	.13				
6		66.66		66.53	66.22	66.72	67.01	67.10				
7		.72		.30	.22	.72	66.96	.08				
8		.65		.28	.22	.69	67.16	.05				
9		.43		.28	.22	.78	.15	.07				
10		.27	66.26	.28	.22	.78	.10	.06				
11		66.23	66.26	66.27	66.21	66.66	67.11	66.97				
12		.22	.26	.27		.64	.22	.97				
13		.22	.26	.27		* .62	.73	.97				
14		.22	.26	.27		66.53	.05	.88				
15		.22	.26	.27	66.45	.48	.03	.85				
16		66.22	66.29	66.27	66.57	66.63	67.01	66.89				
17		* .22	.30	.26	.38	.79	.01	.97				
18		.22	.30	.20	.37	.72	66.97	.88				
19		.22	.27	.20	.60	67.04	67.00	.87				
20		.22	.24	.20	.43	.36	.10	.84				
21		66.23	66.24	66.21	66.55	67.34	67.10	66.78				
22		.23	.24	.22	.92	.14	.10	.71				
23		.23	.24	.21	.85	.05	.07	.68				
24			.24	.21	.89	66.98	.03	.64				
25			.23	.21	67.19	67.20	66.97	.56				
26			66.23	66.21	67.14	67.22	67.02	66.50				
27			.23	.21	.05	.53	.72	.41				
28			.23	.20	66.88	.57	.64	.32				
29			.23	.20	.85	.40	.44	.26				
30			.23	.20	.93	.20	.44	.25				
31				.20	.79		.36					
Mean				66.25		66.93	67.16	66.85				
Max.				66.53	67.19	67.57	67.72	67.31				
Min.				66.20	66.21	66.48	66.97	66.25				

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.00		0.000	0.000	0.058	0.52	1.04				
2		0.00			0.000	0.110	0.62	0.73				
3		0.00			0.000	0.240	1.20	0.65				
4		0.00			0.000	0.180	0.73	0.57				
5		0.00		0.000	0.000	0.082	0.47	0.52				
6		0.052		0.006	0.000	0.052	0.31	0.45				
7		0.052		0.000	0.000	0.052	0.26	0.42				
8		0.030		0.000	0.000	0.038	0.60	0.37				
9		0.000		0.000	0.000	0.088	0.57	0.40				
10		0.000	0.00	0.000	0.000	0.088	0.45	0.39				
11		0.000	0.00	0.000	0.000	0.032	0.47	0.27				
12		0.000	0.00	0.000		0.028	0.76	0.27				
13		0.000	0.00	0.000		0.024	0.52	0.27				
14		0.000	0.00	0.000		0.006	0.37	0.18				
15		0.000	0.00	0.000	0.000	0.000	0.34	0.15				
16		0.000	0.00	0.000	0.014	0.026	0.31	0.19				
17		0.000	0.00	0.000	0.000	0.094	0.31	0.27				
18		0.000	0.00	0.000	0.000	0.052	0.27	0.18				
19		0.000	0.00	0.000	0.200	0.360	0.30	0.17				
20		0.000	0.00	0.000	0.000	1.240	0.45	0.14				
21		0.000	0.00	0.000	0.010	1.150	0.45	0.088				
22		0.000	0.00	0.000	0.220	0.550	0.45	0.046				
23		0.000	0.00	0.000	0.150	0.375	0.40	0.036				
24			0.00	0.000	0.190	0.280	0.34	0.028				
25			0.00	0.000	0.675	0.700	0.27	0.012				
26			0.00	0.000	0.550	0.760	0.33	0.000				
27			0.00	0.000	0.375	2.130	3.39	0.000				
28			0.00	0.000	0.180	2.370	2.83	0.000				
29			0.00	0.000	0.150	1.400	1.62	0.000				
30			0.00	0.000	0.230	0.700	1.62	0.000				
31				0.000	0.094		1.24					
Total			0.000	0.006		13.275	22.77	7.840				
Mean			0.000	0.000		0.442	0.73	0.261				
Max.			0.000	0.006	0.675	2.37	3.39	1.040				
Min.			0.000	0.000	0.000	0.000	0.26	0.000				
Runoff - mcm.			0.000	0.000		1.147	1.967	0.677				

WATER YEAR 1971 : Max. 3.39 Min. 0.000 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.27	08.00	67.94	5.25				

PA SAK RIVER BASIN

Pa Sak River at Kaeng Khoi, Saraburi (S.2)

Location: Lat. 14°-35'-32" N., Long. 101°-00'-23" E., on left bank about 100 meters downstream from Kaeng Khoi Water Supply, Amphoe Kaeng Khoi, Saraburi.

Drainage Area: 14,522 sq.km.

Type of Gage: Water-stage recorder

Zero Gage at Bottom at: + 6.110 m. (M.S.L.)

Bench Mark: B.M. - H.S. 32

Location: Near the bridge of automatic gage building.
Elevation: + 20.130 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: 1914 to date.

Rating Operation:

Period of Rating: 1959-1962, 1965, 1967 to date.
Rated by Float: -
Rated by Current Meter: 1959-1962, 1965, 1967 to date.

Stability of Channel Regimes: Fairly stable because of back water effect, no shifting adjustment for flow computation.

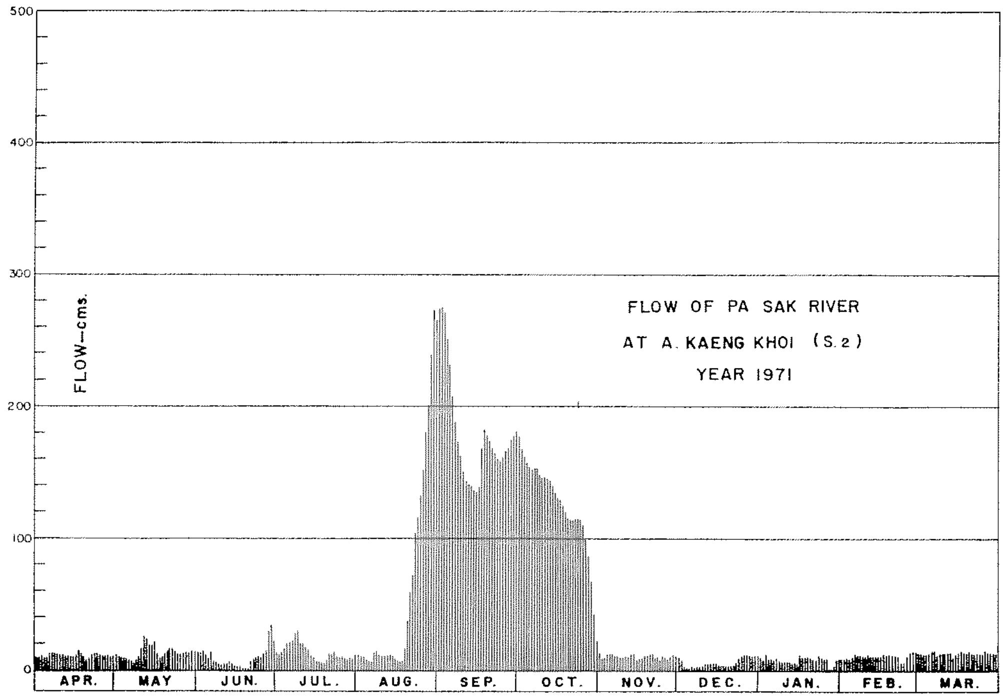
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow is diverted for irrigation of about 3,000 hectares above gage site at Lom Sak weir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.60	7.67	7.71	7.70	7.65	10.48	9.55	7.65	7.60	7.58	7.60	7.69
2	.60	.64	.68	.64	.62	.48	.45	.56	.53	.56	.59	.68
3	.63	.58	.72	.72	.63	.45	.38	.59	.30	.67	.61	.67
4	.58	.59	.67	.76	.57	.25	.30	.66	.22	.58	.60	.69
5	.63	.58	.60	.81	.51	.05	.28	.67	.30	.59	.64	.69
6	7.68	7.55	7.71	7.81	7.50	9.81	9.25	7.66	7.35	7.56	7.68	7.72
7	.69	.54	.53	.85	.71	.59	.26	.64	.36	.60	.66	.72
8	.67	.49	.48	.91	.73	.46	.27	.62	.33	.55	.65	.65
9	.65	.56	.46	.92	.66	.35	.20	.59	.37	.54	.64	.68
10	.63	.70	.42	.80	.64	.22	.18	.59	.40	.53	.65	.70
11	7.66	7.77	7.44	7.80	7.64	9.15	9.19	7.61	7.45	7.51	7.68	7.70
12	.60	.87	.49	.75	.65	.12	.17	.62	.45	.52	.63	.68
13	.63	.85	.52	.72	.67	.10	.14	.65	.45	.49	.64	.71
14	.61	.79	.44	.63	.65	.08	.10	.65	.46	.53	.64	.59
15	.61	.79	.41	.59	.60	.06	.04	.55	.46	.54	.64	.70
16	7.67	7.82	7.36	7.55	7.55	9.10	9.00	7.58	7.41	7.66	7.66	7.68
17	.72	.67	.33	.52	.51	.35	8.99	.58	.40	.61	.68	.72
18	.65	.60	.17	.48	.51	.58	.94	.63	.39	.64	.65	.68
19	.59	.64	.24	.48	.79	.53	.88	.64	.38	.63	.65	.70
20	.55	.72	.28	.58	8.03	.49	.83	.65	.38	.62	.67	.72
21	7.56	7.74	7.51	7.68	8.20	9.41	8.81	7.65	7.40	7.57	7.65	7.70
22	.65	.75	.59	.69	.29	.38	.80	.60	.42	.57	.64	.65
23	.68	.74	.61	.71	.72	.33	.81	.62	.51	.65	.51	.70
24	.69	.69	.63	.62	.85	.31	.81	.54	.62	.61	.49	.67
25	.66	.64	.60	.60	9.04	.35	.80	.63	.64	.58	.60	.67
26	7.61	7.68	7.69	7.61	9.28	9.40	8.74	7.60	7.64	7.60	7.64	7.72
27	.62	.71	.71	.60	.57	.41	.53	.56	.65	.29	.71	.70
28	.66	.69	.92	.54	.77	.50	.39	.61	.67	.28	.73	.70
29	.60	.68	.96	.61	10.15	.52	.19	.65	.64	.43	.71	.68
30	.61	.73	.83	.57	.47	.57	7.99	.64	.65	.59	-	.68
31	-	.73	-	.66	.40	-	.79	-	.66	.59	-	.70
Mean	7.63	7.68	7.56	7.67	8.24	9.53	9.00	7.62	7.47	7.56	7.64	7.69
Max.	7.72	7.87	7.96	7.92	10.47	10.48	9.55	7.67	7.67	7.67	7.73	7.72
Min.	7.55	7.49	7.17	7.48	7.50	9.06	7.79	7.54	7.22	7.28	7.49	7.59

WATER YEAR 1971 : Max. 10.48 m. Min. 7.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.70	12	14	13	12	274	179	12	9.70	8.96	9.70	13
2	9.70	11	13	11	10	274	170	8.22	7.11	8.24	9.33	13
3	11	8.96	15	15	11	270	164	9.33	2.10	12	10	12
4	8.96	9.33	12	17	8.59	249	157	12	1.06	8.96	9.70	13
5	11	8.96	9.70	21	6.37	229	155	12	2.10	9.33	11	13
6	13	7.85	14	21	6.00	205	152	12	2.80	8.24	13	15
7	13	7.48	7.11	24	14	183	153	11	2.94	9.70	12	15
8	12	5.75	5.50	29	15	171	154	10	2.52	7.85	12	12
9	12	8.22	5.00	30	12	161	148	9.33	3.08	7.48	11	13
10	11	13	4.00	20	11	150	146	9.33	3.50	7.11	12	13
11	12	18	4.50	20	11	143	147	10	4.75	6.37	13	13
12	9.70	26	5.75	17	12	141	145	10	4.75	6.74	11	13
13	11	24	6.74	15	12	139	143	12	4.75	5.75	11	14
14	10	19	4.50	11	12	137	139	12	5.00	7.11	11	9.33
15	10	19	3.75	9.33	9.70	135	134	7.85	5.00	7.48	11	13
16	12	22	2.94	7.85	7.85	139	130	8.96	3.75	12	12	13
17	15	12	2.52	6.74	6.37	161	129	8.96	3.50	10	13	15
18	12	9.70	0.56	5.50	6.37	182	125	11	3.36	11	12	13
19	9.33	11	1.32	5.50	19	178	119	11	3.22	11	12	13
20	7.85	15	1.84	8.96	41	174	115	12	3.22	10	12	15
21	8.22	16	6.37	13	61	167	114	12	3.50	8.59	12	13
22	12	17	9.33	13	74	164	113	9.70	4.00	8.59	11	12
23	13	16	10	14	107	160	114	10	6.37	12	6.37	13
24	13	13	11	10	117	158	114	7.48	10	10	5.75	12
25	12	11	9.70	9.70	134	161	113	11	11	8.96	9.70	12
26	10	13	13	10	155	166	108	9.70	11	9.70	11	15
27	10	14	14	9.70	181	167	92	8.22	12	1.94	14	13
28	12	13	30	7.48	201	175	81	10	12	1.84	15	13
29	9.70	13	34	10	239	177	60	12	11	4.25	14	13
30	10	15	22	8.59	273	181	37	11	12	9.33	–	13
31	–	15	–	12	265	–	19	–	12	9.33	–	13
Total	330.16	424.25	293.13	425.35	2,050.25	5,371	3,869	310.08	183.08	259.85	326.55	405.33
Mean	11.0	13.7	9.77	13.7	66.1	179	125	10.3	5.90	8.38	11.3	13.1
Max.	15	26	34	30	273	274	179	12	12	12	15	15
Min.	7.85	5.75	0.56	5.50	6.00	135	19	7.48	1.06	1.84	5.75	9.33
Runoff - MCM.	28.526	36.655	25.326	36.750	177.142	464.054	334.282	26.791	15.818	22.451	28.214	35.020

WATER YEAR 1971 : Max. 274 Min. 0.56 Mean 38.9 Annual Runoff 1,231.030 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.30	10.00	10.51	277				

PA SAK RIVER BASIN

Lum Muak Lek at Highway Bridge, Saraburi (S.7)

Location: Lat. 14^{0}–38'–04" N., Long. 101^{0}–12'–37" E., on left bank about 50 meters upstream from the highway bridge on Bangkok – Nakhon Ratchasima, Tambon Muak Lek, Amphoe Kaeng Khoi, Saraburi.

Drainage Area: 177 sq.km.

Type of Gage: Water–stage recorder.

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

Bench Mark: B.M. – H.S.

Location: Near automatic gage building.
Elevation: + 6.919 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1965 to date.

Rating Operation:

Period of Rating: 1965 to date.
Rated by Float: –
Rated by Current Meter: 1965 to date.

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

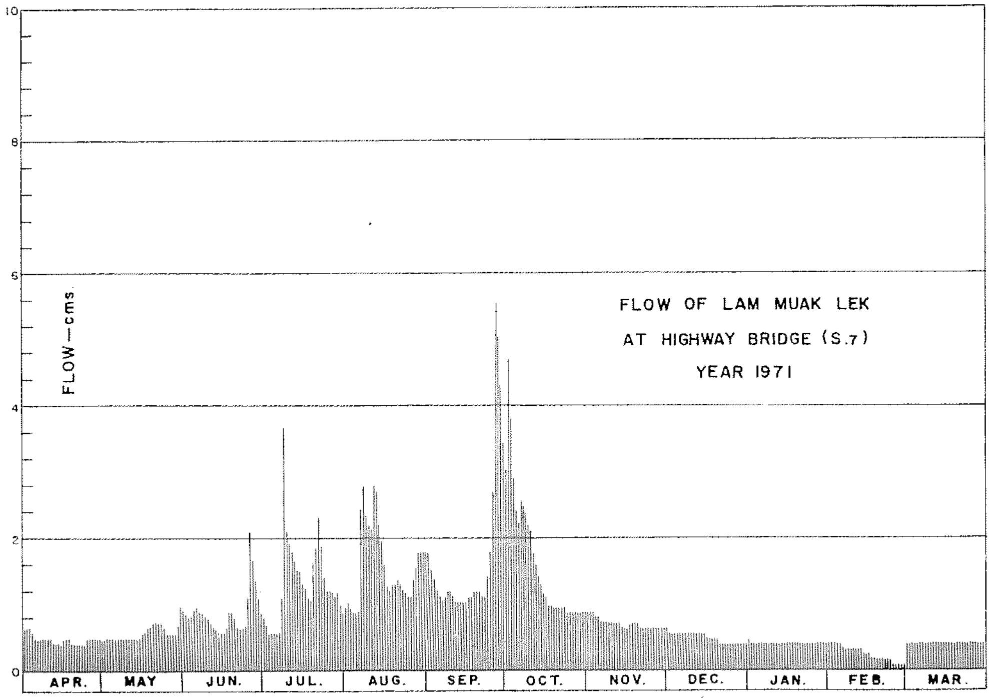
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.53	0.51	0.56	0.55	0.57	0.66	0.75	0.56	0.53	0.51	0.50	0.50
2	.53	.51	.55	.54	.58	.65	.90	.56	.52	.50	.50	.50
3	.53	.51	.55	.52	.57	.63	.83	.56	.52	.50	.50	.50
4	.52	.51	.56	.52	.56	.62	.76	.55	.52	.50	.50	.50
5	.51	.51	.57	.52	.56	.60	.72	.55	.52	.50	.50	.50
6	0.51	0.51	0.57	0.52	0.56	0.59	0.70	0.54	0.52	0.50	0.49	0.50
7	.51	.51	.56	.52	.72	.58	.73	.54	.52	.50	.49	.50
8	.51	.51	.56	.54	.75	.59	.72	.54	.52	.50	.49	.50
9	.51	.51	.55	.82	.71	.60	.70	.54	.52	.50	.49	.50
10	.51	.51	.55	.68	.70	.60	.69	.54	.52	.50	.49	.50
11	0.51	0.51	0.54	0.67	0.69	0.59	0.66	0.54	0.52	0.50	0.49	0.50
12	.50	.51	.53	.66	.75	.58	.64	.54	.52	.50	.49	.50
13	.50	.51	.53	.64	.74	.58	.62	.54	.52	.50	.49	.50
14	.50	.51	.52	.63	.70	.58	.61	.53	.52	.50	.48	.50
15	.50	.51	.52	.63	.67	.58	.59	.53	.52	.50	.48	.50
16	0.51	0.52	0.52	0.61	0.63	0.58	0.59	0.53	0.51	0.50	0.48	0.50
17	.51	.52	.53	.60	.61	.59	.57	.54	.51	.50	.47	.50
18	.51	.53	.56	.59	.60	.59	.57	.54	.51	.50	.47	.50
19	.50	.53	.56	.58	.61	.60	.57	.54	.51	.50	.47	.50
20	.50	.54	.55	.65	.61	.60	.57	.54	.51	.50	.47	.50
21	0.50	0.54	0.53	0.67	0.62	0.60	0.57	0.53	0.50	0.50	0.47	0.50
22	.50	.54	.53	.71	.61	.59	.57	.53	.50	.50	.47	.50
23	.50	.54	.53	.66	.60	.59	.57	.53	.50	.50	.47	.50
24	.50	.54	.53	.62	.60	.61	.56	.53	.50	.50	.47	.50
25	.51	.52	.56	.60	.59	.66	.56	.53	.50	.50	.46	.50
26	0.51	.52	0.69	0.60	0.59	0.72	0.56	0.53	0.50	0.50	0.46	0.50
27	.51	.52	.65	.60	.62	.92	.56	.53	.50	.50	.46	.50
28	.51	.52	.63	.59	.64	.96	.56	.53	.50	.50	.46	.50
29	.51	.52	.59	.60	.66	.87	.56	.53	.50	.50	.46	.50
30	.51	.54	.56	.58	.66	.81	.56	.53	.50	.50	–	.50
31	–	.57	–	.56	.66	–	.56	–	.50	.50	–	.50
Mean	0.51	0.52	0.56	0.60	0.64	0.64	0.63	0.54	0.51	0.50	0.48	0.50
Max.	0.53	0.57	0.69	0.82	0.75	0.96	0.90	0.56	0.53	0.51	0.50	0.50
Min.	0.50	0.51	0.52	0.52	0.56	0.58	0.56	0.53	0.50	0.50	0.46	0.50

WATER YEAR 1971 : Max. 0.96 m. Min. 0.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.64	0.48	0.88	0.80	0.96	1.80	2.80	0.88	0.64	0.48	0.40	0.40
2	0.64	0.48	0.80	0.72	1.04	1.70	4.70	0.88	0.56	0.40	0.40	0.40
3	0.64	0.48	0.80	0.56	0.96	1.50	3.79	0.88	0.56	0.40	0.40	0.40
4	0.56	0.48	0.88	0.56	0.88	1.40	2.92	0.80	0.56	0.40	0.40	0.40
5	0.48	0.48	0.96	0.56	0.88	1.20	2.44	0.80	0.56	0.40	0.40	0.40
6	0.48	0.48	0.96	0.56	0.88	1.12	2.20	0.72	0.56	0.40	0.32	0.40
7	0.48	0.48	0.88	0.56	2.44	1.04	2.56	0.72	0.56	0.40	0.32	0.40
8	0.48	0.48	0.88	0.72	2.80	1.12	2.44	0.72	0.56	0.40	0.32	0.40
9	0.48	0.48	0.80	3.66	2.32	1.20	2.20	0.72	0.56	0.40	0.32	0.40
10	0.48	0.48	0.80	2.00	2.20	1.20	2.10	0.72	0.56	0.40	0.32	0.40
11	0.48	0.48	0.72	1.90	2.10	1.12	1.80	0.72	0.56	0.40	0.32	0.40
12	0.40	0.48	0.64	1.80	2.80	1.04	1.60	0.72	0.56	0.40	0.32	0.40
13	0.40	0.48	0.64	1.60	2.68	1.04	1.40	0.72	0.56	0.40	0.32	0.40
14	0.40	0.48	0.56	1.50	2.20	1.04	1.30	0.64	0.56	0.40	0.24	0.40
15	0.40	0.48	0.56	1.50	1.90	1.04	1.12	0.64	0.56	0.40	0.24	0.40
16	0.48	0.56	0.56	1.30	1.50	1.04	1.12	0.64	0.48	0.40	0.24	0.40
17	0.48	0.56	0.64	1.20	1.30	1.12	0.96	0.72	0.48	0.40	0.16	0.40
18	0.48	0.64	0.88	1.12	1.20	1.12	0.96	0.72	0.48	0.40	0.16	0.40
19	0.40	0.64	0.88	1.04	1.30	1.20	0.96	0.72	0.48	0.40	0.16	0.40
20	0.40	0.72	0.80	1.70	1.30	1.20	0.96	0.72	0.48	0.40	0.16	0.40
21	0.40	0.72	0.64	1.90	1.40	1.20	0.96	0.64	0.40	0.40	0.16	0.40
22	0.40	0.72	0.64	2.32	1.30	1.12	0.96	0.64	0.40	0.40	0.16	0.40
23	0.40	0.72	0.64	1.80	1.20	1.12	0.96	0.64	0.40	0.40	0.16	0.40
24	0.40	0.72	0.64	1.40	1.20	1.30	0.88	0.64	0.40	0.40	0.16	0.40
25	0.48	0.56	0.88	1.20	1.12	1.80	0.88	0.64	0.40	0.40	0.08	0.40
26	0.48	0.56	2.10	1.20	1.12	2.44	0.88	0.64	0.40	0.40	0.08	0.40
27	0.48	0.56	1.70	1.20	1.40	4.98	0.88	0.64	0.40	0.40	0.08	0.40
28	0.48	0.56	1.50	1.12	1.60	5.54	0.88	0.64	0.40	0.40	0.08	0.40
29	0.48	0.56	1.12	1.20	1.80	4.31	0.88	0.64	0.40	0.40	0.08	0.40
30	0.48	0.72	0.88	1.04	1.80	3.53	0.88	0.64	0.40	0.40	–	0.40
31	–	0.96	–	0.88	1.80	–	0.88	–	0.40	0.40	–	0.40
Total	14.16	17.68	26.26	40.62	49.38	51.58	50.25	21.20	15.28	12.48	6.96	12.40
Mean	0.47	0.57	0.87	1.31	1.59	1.72	1.62	0.71	0.49	0.40	0.24	0.40
Max.	0.64	0.96	2.10	3.66	2.80	5.54	4.70	0.88	0.64	0.48	0.40	0.40
Min.	0.40	0.48	0.56	0.56	0.88	1.04	0.88	0.64	0.40	0.40	0.08	0.40
Runoff – mcm.	1.223	1.527	2.269	3.509	4.266	4.456	4.342	1.832	1.320	1.078	0.601	1.071

WATER YEAR 1971 : Max. 5.54 Min. 0.08 Mean 0.87 Annual Runoff 27.497 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.27	16.00	1.08	7.30				

PA SAK RIVER BASIN

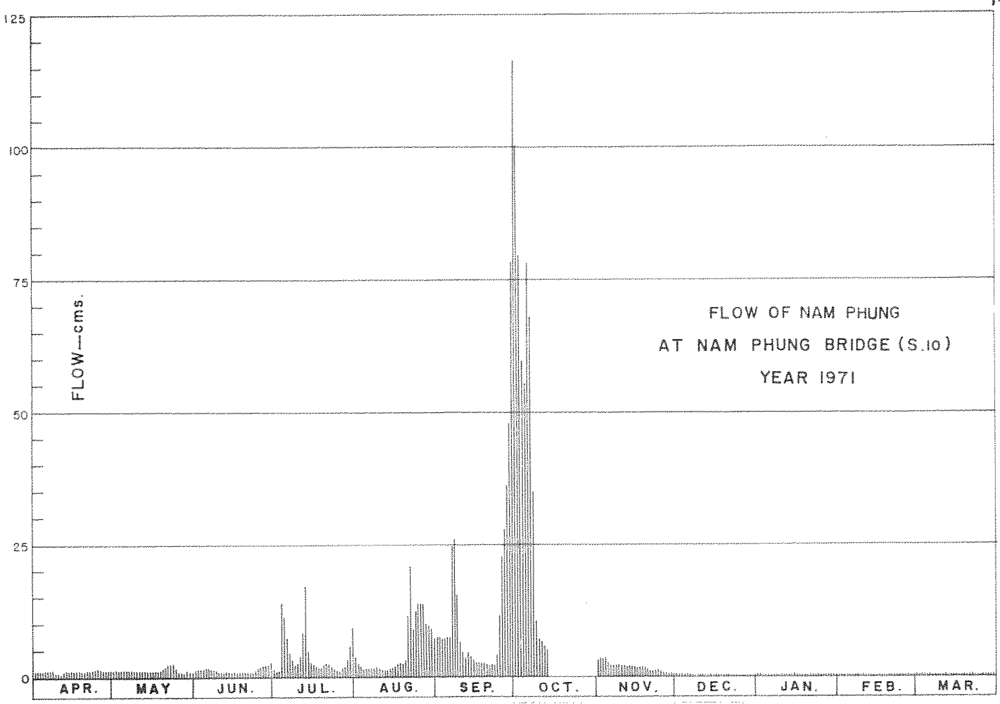
Nam Phung at Nam Phung Bridge, Phetchaburi (S.10)

Location:	Lat. 16^{0}–56'–20" N., Long. 101^{0}–13'–10" E., on right bank at Nam Phung bridge, Tambon Hin Hao, Amphoe Lom Kao, Phetchaburi.
Drainage Area:	268 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. – H.S.
Location:	Near the gage site.
Elevation:	+ 8.850 m. (A.D.)
Gage Reading Frequency:	5–time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1965 to date.
Rating Operation:	
Period of Rating:	1967
Rated by Float:	–
Rated by Current Meter:	1967
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 relationship used is defined by discharge measurements made during 1967.
Remarks:	The staff gage was damaged on October 14–31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.27	0.27	0.28	0.28	0.63	1.06	4.97	0.62	0.14	0.08	0.03	0.03
2	.27	.28	.32	.26	.51	.06	.11	.67	.12	.08	.03	.03
3	.27	.28	.36	.33	.47	.05	3.51	.66	.12	.08	.03	.03
4	.26	.28	.35	1.56	.38	.04	.39	.68	.12	.08	.03	.03
5	.27	.28	.36	.32	.42	.07	.28	.52	.12	.08	.03	.03
6	0.28	0.28	0.36	0.96	0.41	1.06	3.97	0.51	0.11	0.08	0.03	0.02
7	.27	.28	.35	.75	.41	2.14	.59	.51	.10	.08	.03	.02
8	.27	.28	.26	.65	.41	.20	2.08	.51	.10	.08	.02	.02
9	.11	.26	.26	.47	.42	1.35	1.11	.51	.10	.08	.02	.02
10	.11	.28	.22	.57	.40	0.90	.00	.43	.10	.08	.02	.02
11	0.10	0.27	0.22	0.76	0.32	0.77	0.98	0.49	0.10	0.07	0.02	0.02
12	.26	.26	.24	1.20	.31	.62	.91	.45	.10	.07	.02	.02
13	.28	.26	.26	.72	.31	.78	.82	.45	.10	.07	.02	.02
14	.28	.26	.24	0.78	.36	.72		.45	.08	.06	.03	.02
15	.26	.27	.25	.57	.42	.65		.41	.08	.05	.03	.02
16	0.26	0.26	0.22	0.50	0.48	0.57		0.43	0.08	0.04	0.03	0.02
17	.26	.28	.21	.46	.54	.53		.45	.08	.04	.03	.02
18	.26	.27	.21	.42	.59	.53		.45	.07	.04	.04	.02
19	.26	.26	.21	.45	.55	.54		.39	.07	.04	.03	.02
20	.26	.39	.21	.54	.65	.52		.30	.07	.04	.03	.02
21	0.30	0.42	0.21	0.54	1.33	0.51		0.34	0.07	0.04	0.03	0.02
22	.31	.50	.21	.52	.93	.52		.31	.07	.04	.03	.02
23	.32	.51	.25	.43	.19	.51		.30	.07	.04	.03	.02
24	.36	.51	.32	.35	.49	.83		.30	.07	.04	.03	.10
25	.36	.34	.38	.31	.57	1.47		.25	.07	.03	.03	.10
26	0.32	0.23	0.44	0.31	1.52	2.10		0.16	0.07	0.03	0.03	0.10
27	.25	.23	.45	.43	.58	.28		.16	.07	.03	.03	.10
28	.26	.22	.46	.47	.28	.60		.14	.07	.03	.03	.10
29	.26	.26	.48	.72	.25	3.08		.13	.07	.03	.03	.10
30	.26	.25	.55	.95	.20	4.33		.12	.07	.03	–	.10
31	–	.22	–	1.21	.04	–		–	.07	.03	–	.10
Mean	0.26	0.30	0.30	0.67	0.79	1.25		0.40	0.09	0.05	0.03	0.04
Max.	0.36	0.51	0.55	1.72	1.93	4.33	4.97	0.68	0.14	0.08	0.04	0.10
Min.	0.10	0.22	0.21	0.26	0.31	0.51		0.12	0.07	0.03	0.02	0.02

WATER YEAR 1971 : Max. 4.97 m. Min. 0.02 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.04	1.07	1.12	1.12	3.24	7.52	116	3.16	0.59	0.42	0.31	0.31
2	1.04	1.12	1.30	1.03	2.37	7.52	83	3.56	0.53	0.42	0.31	0.31
3	1.04	1.12	1.50	1.35	2.16	7.40	62	3.48	0.53	0.42	0.31	0.31
4	1.03	1.12	1.45	14	1.60	7.28	58	3.64	0.53	0.42	0.31	0.31
5	1.04	1.12	1.50	11	1.82	7.64	55	2.44	0.53	0.42	0.31	0.31
6	1.12	1.12	1.50	6.36	1.76	7.56	78	2.37	0.50	0.42	0.31	0.29
7	1.04	1.12	1.45	4.25	1.76	25	65	2.37	0.47	0.42	0.31	0.29
8	1.04	1.12	1.03	3.40	1.76	26	24	2.37	0.47	0.42	0.29	0.29
9	0.50	1.03	1.03	2.16	1.82	11	8.12	2.37	0.47	0.42	0.29	0.29
10	0.50	1.12	0.86	2.79	1.70	5.70	6.80	1.88	0.47	0.42	0.29	0.29
11	0.47	1.07	0.86	4.34	1.30	4.43	6.58	2.24	0.47	0.40	0.29	0.29
12	1.03	1.03	0.95	9.20	1.25	3.16	5.81	2.00	0.47	0.40	0.29	0.29
13	1.12	1.03	1.03	17	1.25	4.52	4.90	2.00	0.47	0.40	0.29	0.29
14	1.12	1.03	0.95	4.52	1.50	3.98		2.00	0.42	0.38	0.31	0.29
15	1.03	1.07	0.99	2.79	1.82	3.40		1.76	0.42	0.35	0.31	0.29
16	1.03	1.03	0.86	2.30	2.18	2.79		1.88	0.42	0.33	0.31	0.29
17	1.03	1.12	0.82	2.06	2.58	2.51		2.00	0.42	0.33	0.31	0.29
18	1.03	1.07	0.82	1.82	2.93	2.51		2.00	0.40	0.33	0.33	0.29
19	1.03	1.03	0.82	2.00	2.65	2.58		1.65	0.40	0.33	0.31	0.29
20	1.03	1.65	0.82	2.58	3.40	2.44		1.20	0.40	0.33	0.31	0.29
21	1.20	1.82	0.82	2.58	11	2.37		1.40	0.40	0.33	0.31	0.29
22	1.25	2.30	0.82	2.44	21	2.44		1.25	0.40	0.33	0.31	0.29
23	1.30	2.37	0.99	1.88	9.08	2.37		1.20	0.40	0.33	0.31	0.29
24	1.50	2.37	1.30	1.45	13	5.00		1.20	0.40	0.33	0.31	0.47
25	1.50	1.40	1.60	1.25	14	13		0.99	0.40	0.31	0.31	0.47
26	1.30	0.91	1.94	1.25	14	24		0.66	0.40	0.31	0.31	0.47
27	0.99	0.91	2.00	1.88	14	28		0.66	0.40	0.31	0.31	0.47
28	1.03	0.86	2.06	2.16	10	36		0.59	0.40	0.31	0.31	0.47
29	1.03	1.03	2.18	3.98	9.85	49		0.56	0.40	0.31	0.31	0.47
30	1.03	0.99	2.65	6.25	9.20	91		0.53	0.40	0.31	–	0.47
31	–	0.86	–	9.33	7.28	–		–	0.40	0.31	–	0.47
Total	31.44	38.01	38.02	130.52	173.26	398.08		55.41	13.78	11.27	8.89	10.53
Mean	1.05	1.23	1.27	4.21	5.59	13.3		1.85	0.44	0.36	0.31	0.34
Max.	1.50	2.37	2.65	17	21	91	116	3.64	0.59	0.42	0.33	0.47
Min.	0.47	0.86	0.82	1.03	1.25	2.37		0.53	0.40	0.31	0.29	0.29
Runoff – mcm.	2.716	3.284	3.285	11.277	14.970	34.394		4.787	1.190	0.974	0.768	0.910

WATER YEAR 1971 : Max. 116 Min. 0.29 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

SALAWIN RIVER BASIN

Huai Mae Lamao at Ban Ko Ko, Tak (Sw. 1)

Location: Lat. 16°–54'–56" N., Long. 98°–37'–57" E., on right bank at Ban Ko Ko, 14 kilometers south-east of Amphoe Mae Ramat between Doi Kala and Doi Mae Phasa, Amphoe Mae Sot, Tak.

Drainage Area: 1,426 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S.

Location: Along the measuring line.
Elevation: + 5.597 m. (A.D.)

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

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

Period of Available Gage Records: 1966 to date.

Rating Operation:

Period of Rating: 1966–1969.
Rated by Float: –
Rated by Current Meter: 1966–1969.

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

Overbank Flow Conditions: No overbank flow.

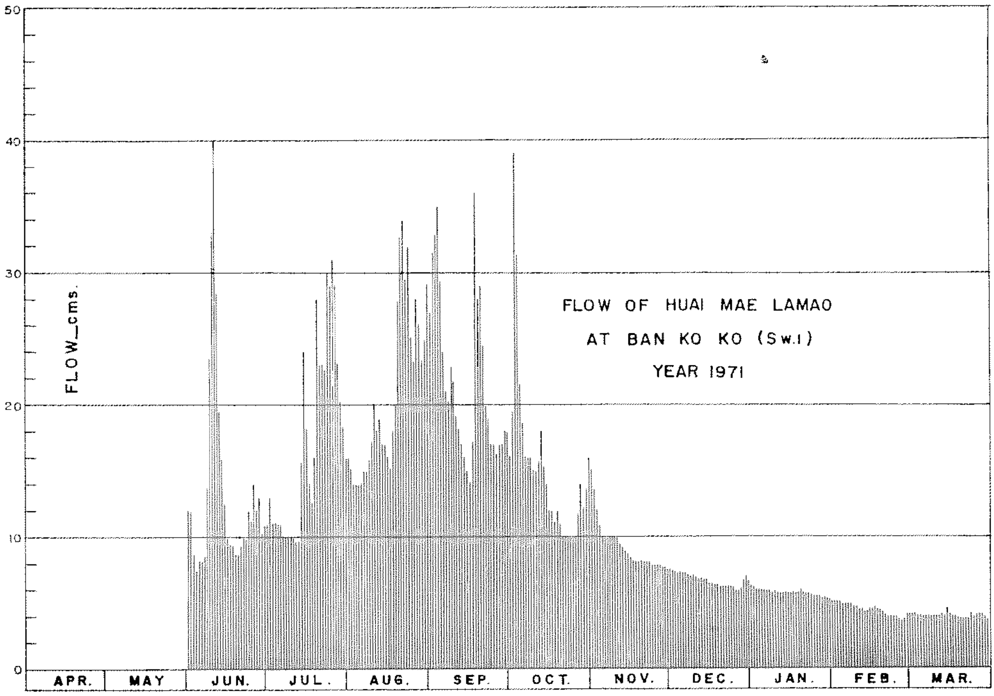
General Description: Records fair. The data presented is made by discharge measurements made during 1968. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: No records on period April 1 – May 31, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.64	0.60	0.79	1.10	0.80	0.74	0.47	0.41	0.36	0.31
2			.66	.68	.74	.25	.86	.68	.47	.41	.36	.31
3			.52	.61	.71	.29	1.43	.64	.46	.40	.36	.31
4			.46	.60	.73	.33	.15	.61	.46	.40	.36	.30
5			.50	.62	.73	.17	0.94	.59	.46	.40	.35	.30
6			0.50	0.62	0.74	1.04	0.85	0.58	0.46	0.40	0.35	0.30
7			.50	.58	.75	0.95	.79	.57	.46	.40	.35	.30
8			.63	.56	.75	.94	.80	.57	.45	.40	.35	.30
9			1.02	.56	.80	1.02	.80	.58	.45	.39	.34	.30
10			.34	.58	.85	0.98	.75	.57	.45	.39	.34	.30
11			1.47	0.57	0.89	0.91	0.75	0.57	0.44	0.39	0.33	0.30
12			.12	.55	.85	.86	.79	.55	.44	.39	.33	.30
13			0.90	.52	.88	.82	.85	.54	.43	.39	.32	.31
14			.74	.74	.84	.78	.75	.53	.43	.39	.32	.30
15			.64	1.05	.84	.75	.70	.52	.43	.39	.33	.33
16			0.56	0.85	0.79	0.73	0.66	0.51	0.42	0.39	0.33	0.31
17			.54	.73	.74	.77	.65	.50	.42	.39	.34	.30
18			.51	.63	.86	1.36	.60	.50	.42	.39	.33	.30
19			.52	.78	.92	.15	.63	.50	.42	.39	.32	.29
20			.52	1.15	1.19	.19	.62	.50	.41	.40	.32	.29
21			0.55	1.02	1.28	1.05	0.59	0.50	0.41	0.39	0.31	0.29
22			.58	.03	.30	0.94	.58	.50	.41	.39	.30	.29
23			.58	0.98	.17	.88	.58	.50	.41	.39	.30	.29
24			.65	1.20	.26	.84	.57	.49	.41	.38	.30	.31
25			.61	.19	.07	.81	.56	.49	.41	.38	.30	.30
26			0.70	1.23	1.02	0.78	0.58	0.49	0.40	0.38	0.29	0.31
27			.64	.19	.16	.81	.64	.49	.40	.38	.28	.31
28			.58	.03	.10	.81	.72	.48	.41	.37	.29	.31
29			.56	0.93	.03	.87	.66	.48	.44	.37	.31	.30
30			.60	.86	.08	.86	.72	.47	.45	.37		.28
31				.80	.17		.78		.42	.37		.30
Mean			0.68	0.81	0.94	0.97	0.75	0.54	0.43	0.39	0.33	0.30
Max.			1.47	1.23	1.30	1.36	1.43	0.74	0.47	0.41	0.36	0.33
Min.			0.46	0.52	0.71	0.73	0.56	0.47	0.40	0.37	0.28	0.28

WATER YEAR 1971 : Max. 1.47 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			12	11	16	26	16	15	7.54	6.22	5.20	4.20
2			12	13	15	32	18	13	7.54	6.22	5.20	4.20
3			8.72	11	14	33	39	12	7.32	6.00	5.20	4.20
4			7.32	11	14	35	28	11	7.32	6.00	5.20	4.00
5			8.20	11	14	29	20	10	7.32	6.00	5.00	4.00
6			8.20	11	15	24	18	10	7.32	6.00	5.00	4.00
7			8.20	10	15	21	16	10	7.32	6.00	5.00	4.00
8			12	10	15	20	16	10	7.10	6.00	5.00	4.00
9			23	10	16	23	16	10	7.10	5.80	4.80	4.00
10			35	10	18	22	15	10	7.10	5.80	4.80	4.00
11			40	10	20	19	15	10	6.88	5.80	4.60	4.00
12			27	9.50	18	18	16	9.50	6.88	5.80	4.60	4.00
13			19	8.72	19	17	18	9.24	6.66	5.80	4.40	4.20
14			15	15	17	16	15	8.98	6.66	5.80	4.40	4.00
15			12	24	17	15	14	8.72	6.66	5.80	4.60	4.60
16			10	18	16	14	12	8.46	6.44	5.80	4.60	4.20
17			9.44	14	15	15	12	8.20	6.44	5.80	4.80	4.00
18			8.46	12	18	36	11	8.20	6.44	5.80	4.60	4.00
19			8.72	16	20	28	12	8.20	6.44	5.80	4.40	3.84
20			8.72	28	29	29	11	8.20	6.22	6.00	4.40	3.84
21			9.50	23	33	24	10	8.20	6.22	5.80	4.20	3.84
22			10	23	34	20	10	8.20	6.22	5.80	4.00	3.84
23			10	22	29	19	10	8.20	6.22	5.80	4.00	3.84
24			12	30	32	17	10	7.98	6.22	5.60	4.00	4.20
25			11	29	25	17	10	7.98	6.22	5.60	4.00	4.00
26			14	31	23	16	10	7.98	6.00	5.60	3.84	4.20
27			12	29	28	17	12	7.98	6.00	5.60	3.68	4.20
28			13	23	26	17	14	7.76	6.22	5.40	3.84	4.20
29			10	20	23	18	12	7.76	6.88	5.40	4.20	4.00
30			11	18	25	18	14	7.54	7.10	5.40		3.68
31				16	29		16		6.44	5.40		4.00
Total			405.48	527.22	648	655	466	278.28	208.44	179.64	131.56	125.28
Mean			13.5	17.0	20.9	21.8	15.0	9.28	6.72	5.79	4.54	4.04
Max.			40	31	34	36	39	15	7.54	6.22	5.20	4.60
Min.			7.32	8.72	14	14	10	7.54	6.00	5.40	3.68	3.68
Runoff - mcm.			35.033	45.552	55.987	56.592	40.262	24.043	18.009	15.521	11.367	10.824

WATER YEAR 1971 : Max. 40 Min. 0.28 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.3	12.00	1.60	46				

SALAWIN RIVER BASIN

Huai Mae Lamao at Tambon Phra Wo, Tak (SW.4A)

Location: Lat. 16°-48'-14" N., Long. 98°-44'-47" E., on left bank at Ban Mae Lamao about 500 meters upstream from Sw. 4 station and about 8 kilometers downstream from Sw. 6 station, Tambon Phra Wo, Amphoe Mae Sot, Tak.

Drainage Area: 1,060 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 2.862 m. (A.D.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 8-time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 8 readings.

Period of Available Gage Records: 1969-1971

Rating Operation:

Period of Rating: 1969-1971
Rated by Float: -
Rated by Current Meter: 1969-1971

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

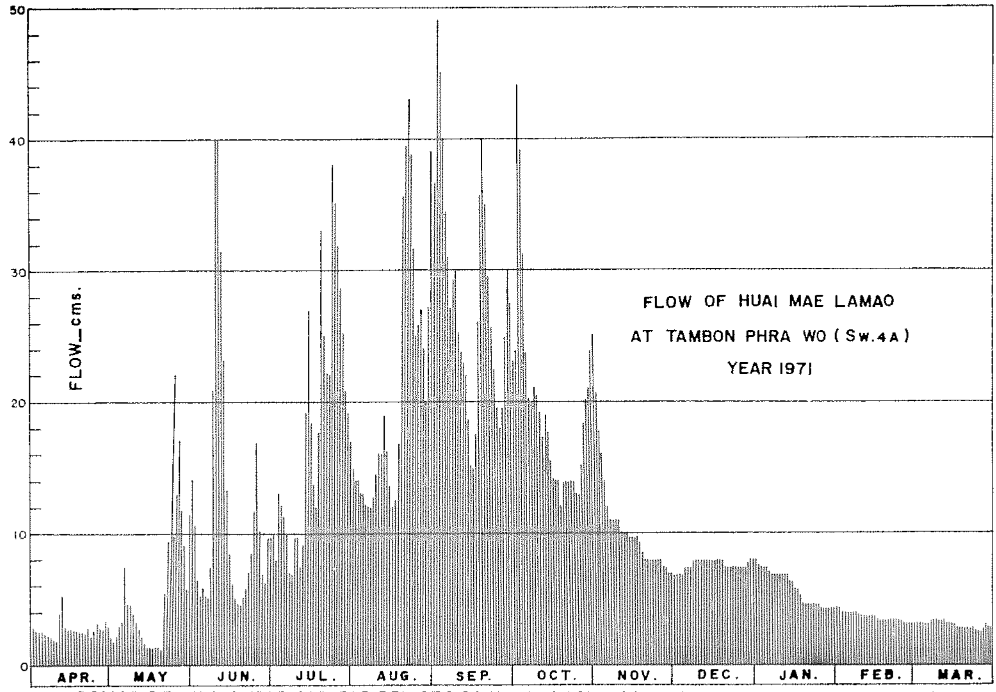
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1970. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.84	3.80	4.07	3.99	4.09	4.36	4.21	4.19	3.94	3.96	3.89	3.85
2	.83	.81	.00	4.00	.06	.61	.23	.14	.94	.95	.89	.85
3	.83	.82	3.92	3.96	.06	.63	.56	.12	.94	.95	.88	.85
4	.83	.85	.91	4.05	.05	.57	.47	.08	.94	.95	.88	.85
5	.83	.86	.92	.03	.05	.42	.25	.05	.95	.95	.88	.85
6	3.82	3.95	3.91	4.02	4.04	4.37	4.20	4.03	3.95	3.94	3.88	3.85
7	.82	.90	.91	3.99	.04	.27	.16	.02	.95	.94	.88	.86
8	.81	.90	.93	.94	.03	.32	.16	.02	.96	.94	.88	.86
9	.81	.88	4.23	.94	.05	.34	.17	.02	.96	.94	.87	.86
10	.81	.86	.50	.99	.08	.27	.16	.01	.96	.94	.87	.86
11	3.87	3.84	4.50	3.99	4.10	4.24	4.14	4.00	3.96	3.94	3.87	3.86
12	.91	.83	.39	.95	.10	.22	.12	.00	.96	.94	.87	.86
13	.84	.81	.17	.98	.15	.19	.15	.00	.96	.94	.87	.85
14	.84	.79	.05	4.14	.10	.14	.12	3.99	.96	.93	.87	.85
15	.83	.79	3.98	.29	.05	.09	.08	.99	.96	.93	.87	.85
16	3.84	3.79	3.93	4.16	4.04	4.08	4.07	3.99	3.96	3.92	3.86	3.85
17	.83	.79	.91	.06	.03	.15	.06	.99	.96	.92	.86	.84
18	.83	.79	.90	.03	.09	.37	.06	.98	.96	.91	.86	.84
19	.83	.79	.90	.15	.15	.50	.03	.97	.96	.90	.86	.84
20	.83	.78	.91	.39	.40	.45	.06	.96	.95	.90	.86	.84
21	3.82	3.91	3.92	4.26	4.48	4.40	4.06	3.96	3.95	3.90	3.86	3.84
22	.84	.94	.94	.19	.50	.29	.06	.96	.95	.90	.86	.84
23	.81	4.01	.96	.19	.54	.23	.06	.96	.95	.90	.86	.84
24	.83	.07	.99	.33	.38	.19	.05	.96	.95	.90	.86	.83
25	.81	3.99	4.11	.47	.25	.15	.05	.96	.95	.90	.86	.83
26	3.85	4.19	4.04	4.39	4.27	4.13	4.05	3.96	3.95	3.89	3.85	3.83
27	.90	.12	3.98	.36	.29	.16	.11	.95	.95	.89	.85	.84
28	.84	3.98	.93	.29	.23	.25	.16	.95	.95	.89	.85	.85
29	.86	.98	.93	.18	.16	.35	.17	.94	.96	.89	.85	.84
30	.83	.92	.99	.16	.29	.29	.24	.94	.96	.89	-	.84
31	-	4.03	-	.13	.49	-	.26	-	.96	.89	-	.84
Mean	3.84	3.90	4.02	4.13	4.19	4.30	4.15	4.00	3.95	3.92	3.87	3.84
Max.	3.91	4.19	4.50	4.47	4.54	4.63	4.56	4.19	3.96	3.96	3.89	3.86
Min.	3.81	3.78	3.90	3.94	4.03	4.08	4.03	3.94	3.94	3.89	3.85	3.83

WATER YEAR 1971 : Max. 4.63 m. Min. 3.78 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.80	1.60	14	9.64	15	31	23	22	6.84	7.96	4.30	3.10
2	2.50	1.90	10	10	14	47	24	19	6.84	7.40	4.30	3.10
3	2.50	2.20	5.72	7.96	14	49	44	17	6.84	7.40	4.00	3.10
4	2.50	3.10	5.16	13	13	44	38	15	6.84	7.40	4.00	3.10
5	2.50	3.40	5.72	12	13	35	25	13	7.40	7.40	4.00	3.10
6	2.20	7.40	5.16	11	12	32	22	12	7.40	6.84	4.00	3.10
7	2.20	4.60	5.16	9.64	12	26	20	11	7.40	6.84	4.00	3.40
8	1.90	4.60	6.28	6.84	12	29	20	11	7.96	6.84	4.00	3.40
9	1.90	4.00	24	6.84	13	30	21	11	7.96	6.84	3.70	3.40
10	1.90	3.40	40	9.64	15	26	20	11	7.96	6.84	3.70	3.40
11	3.70	2.80	40	9.64	16	24	19	10	7.96	6.84	3.70	3.40
12	5.16	2.50	33	7.40	16	23	17	10	7.96	6.84	3.70	3.40
13	2.80	1.90	21	9.08	19	22	19	10	7.96	6.84	3.70	3.10
14	2.80	1.34	13	19	16	19	17	9.64	7.96	6.28	3.70	3.10
15	2.50	1.34	9.08	27	13	15	15	9.64	7.96	6.28	3.70	3.10
16	2.80	1.34	6.28	20	12	15	14	9.64	7.96	5.72	3.40	3.10
17	2.50	1.34	5.16	14	12	19	14	9.64	7.96	5.72	3.40	2.80
18	2.50	1.34	4.60	12	15	32	14	9.08	7.96	5.16	3.40	2.80
19	2.50	1.34	4.60	19	19	40	12	8.52	7.96	4.60	3.40	2.80
20	2.50	1.18	5.16	33	33	37	14	7.92	7.40	4.60	3.40	2.80
21	2.20	5.16	5.72	25	39	33	14	7.96	7.40	4.60	3.40	2.80
22	2.80	6.84	6.84	22	40	27	14	7.96	7.40	4.60	3.40	2.80
23	1.90	11	7.96	22	43	24	14	7.96	7.40	4.60	3.40	2.80
24	2.50	14	9.64	22	32	22	13	7.96	7.40	4.60	3.40	2.50
25	1.90	9.64	17	38	25	19	13	7.96	7.40	4.60	3.40	2.50
26	3.10	22	12	33	26	18	13	7.96	7.40	4.30	3.10	2.50
27	4.60	17	9.08	31	27	20	17	7.40	7.40	4.30	3.10	2.80
28	2.80	9.08	6.28	27	24	25	20	7.40	7.40	4.30	3.10	3.10
29	3.40	9.08	6.28	21	20	30	21	6.84	7.96	4.30	3.10	2.80
30	2.50	5.72	9.64	20	27	27	24	6.84	7.96	4.30	–	2.80
31	–	12	–	18	39	–	25	–	7.96	4.30	–	2.80
Total	80.36	174.14	353.52	552.68	646	840	600	312.36	235.56	179.44	104.90	92.80
Mean	2.68	5.62	11.8	17.8	20.8	28.0	19.3	10.4	7.60	5.79	3.62	2.99
Max.	5.16	22	40	38	43	49	44	22	7.96	7.96	4.30	3.40
Min.	1.90	1.18	4.60	6.84	12	15	12	6.84	6.84	4.30	3.10	2.50
Runoff - mcm.	6.943	15.046	30.544	47.751	55.814	72.576	51.840	26.988	20.352	15.504	9.063	8.018

WATER YEAR 1971 : Max. 49 Min. 1.18 Mean 11.4 Annual Runoff 360.440 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.2	18.00	4.71	55				

SALAWIN RIVER BASIN

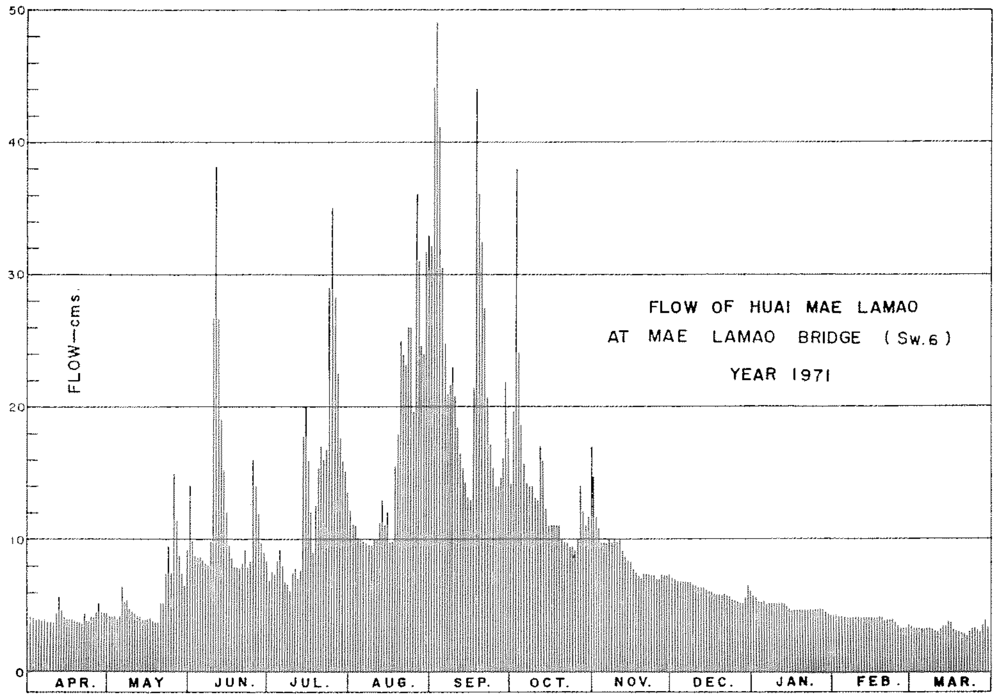
Huai Mae Lamao at Mae Lamao Bridge, Tak (Sw. 6)

Location:	Lat. 16°-45'-44" N., Long 98°-45'-14" E., On left bank downstream side of Huai Mae Lamao Bridge, Amphoe Mae Sot Tak.
Drainage Area:	1,038 sq.km.
Type of Gage:	Water-Stage recorder.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.-H.S.
Location:	About 6.25 meters from Autometic gage building.
Elevation:	+ 10.386 m (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on Apr.-July 21, 1971. Recording on July 22, 1971 - Mar. 31, 1972.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 and 24 hourly readings.
Period of Available Gage Records:	1970 to date.
Rating Operation:	
Period of Rating:	1970 to date.
Rated by Float:	-
Rated by Current Meter:	1970 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. The data presented is made by discharge measurements during 1971. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.07	1.07	1.43	1.19	1.37	1.87	1.44	1.42	1.20	1.14	1.08	1.03
2	.07	.07	.29	.22	.34	2.15	.57	.36	.20	.14	.08	.03
3	.06	.07	.26	.21	.33	.20	.99	.33	.19	.13	.07	.03
4	.06	.06	.26	.25	.31	.02	.64	.30	.19	.13	.07	.03
5	.06	.06	.26	.28	.32	1.83	.52	.30	.19	.13	.07	.03
6	1.06	1.17	1.25	1.23	1.30	1.71	1.46	1.30	1.19	1.12	1.07	1.03
7	.06	.12	.24	.19	.30	.62	.43	.31	.19	.12	.07	.03
8	.05	.13	.24	.18	.29	.65	.42	.30	.19	.12	.07	.03
9	.05	.10	.30	.16	.29	.68	.43	.31	.18	.12	.07	.02
10	.05	.09	.89	.22	.31	.61	.39	.30	.18	.12	.07	.02
11	1.07	1.08	2.00	1.23	1.31	1.55	1.39	1.31	1.17	1.12	1.07	1.02
12	.14	.07	1.71	.20	.34	.50	.53	.28	.17	.12	.07	.03
13	.09	.07	.52	.23	.40	.46	.46	.26	.17	.12	.07	.04
14	.07	.06	.46	.56	.33	.44	.38	.24	.16	.11	.07	.04
15	.06	.06	.36	.60	.36	.41	.35	.24	.16	.10	.07	.06
16	1.06	1.06	1.28	1.42	1.30	1.40	1.34	1.23	1.16	1.10	1.07	1.05
17	.06	.06	.25	.33	.31	.64	.34	.22	.15	.10	.07	.02
18	.05	.05	.23	.27	.49	2.11	.34	.21	.15	.10	.07	.02
19	.05	.05	.23	.40	.55	1.93	.33	.20	.15	.10	.07	.02
20	.05	.05	.23	.48	.73	.87	.32	.22	.15	.10	.06	.01
21	1.04	1.12	1.25	1.52	1.70	1.75	1.30	1.22	1.15	1.10	1.06	1.01
22	.08	.12	.28	.50	.68	.60	.30	.22	.14	.10	.06	.00
23	.05	.23	.23	.53	.75	.52	.29	.21	.14	.10	.06	.02
24	.07	.29	.24	.78	.75	.46	.29	.21	.13	.10	.04	.03
25	.07	.21	.49	.93	.57	.43	.28	.20	.13	.10	.04	.03
26	1.07	1.46	1.43	1.81	1.67	1.43	1.32	1.20	1.13	1.10	1.03	1.02
27	.12	.36	.36	.72	.96	.46	.43	.22	.12	.10	.03	.02
28	.09	.24	.29	.56	.70	.51	.38	.21	.12	.10	.03	.05
29	.08	.21	.27	.48	.69	.64	.34	.21	.15	.09	.04	.06
30	.09	.17	.25	.45	.88	.51	.38	.21	.18	.08	-	.03
31	-	.30	-	.40	.90	-	.51	-	.15	.08	-	.01
Mean	1.07	1.14	1.36	1.40	1.50	1.66	1.41	1.26	1.16	1.11	1.06	1.03
Max.	1.14	1.46	2.00	1.93	1.96	2.20	1.99	1.42	1.20	1.14	1.08	1.06
Min.	1.04	1.05	1.23	1.16	1.29	1.40	1.28	1.20	1.12	1.08	1.03	1.00

WATER YEAR 1971 : Max. 2.20 m. Min. 1.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.10	4.10	14	6.77	12	32	14	14	7.00	5.62	4.30	3.30
2	4.10	4.10	9.43	7.54	11	46	19	12	7.00	5.62	4.30	3.30
3	3.90	4.10	8.62	7.27	11	49	38	11	6.77	5.39	4.10	3.30
4	3.90	3.90	8.62	8.35	10	39	22	9.70	6.77	5.39	4.10	3.30
5	3.90	3.90	8.62	9.16	10	30	17	9.70	6.77	5.39	4.10	3.30
6	3.90	6.31	8.35	7.81	9.70	25	15	9.70	6.77	5.16	4.10	3.30
7	3.90	5.16	8.08	6.77	9.70	21	14	10	6.77	5.16	4.10	3.30
8	3.70	5.39	8.08	6.54	9.43	22	14	9.70	6.77	5.16	4.10	3.30
9	3.70	4.70	9.70	6.08	9.43	23	14	10	6.54	5.16	4.10	3.10
10	3.70	4.50	33	7.54	10	20	13	9.70	6.54	5.16	4.10	3.10
11	4.10	4.30	38	7.81	10	18	13	10	6.31	5.16	4.10	3.10
12	5.62	4.10	25	7.00	11	16	17	9.16	6.31	5.16	4.10	3.30
13	4.50	4.10	17	7.81	13	15	15	8.62	6.31	5.16	4.10	3.50
14	4.10	3.90	15	18	11	14	12	8.35	6.08	4.93	4.10	3.50
15	3.90	3.90	12	20	12	13	11	8.35	6.08	4.70	4.10	3.90
16	3.90	3.90	9.16	14	9.70	13	11	7.81	6.08	4.70	4.10	3.70
17	3.90	3.90	8.35	11	10	22	11	7.54	5.85	4.70	4.10	3.10
18	3.70	3.70	7.81	8.89	16	44	11	7.27	5.85	4.70	4.10	3.10
19	3.70	3.70	7.81	13	18	35	11	7.00	5.85	4.70	4.10	3.10
20	3.70	3.70	7.81	16	25	32	10	7.54	5.85	4.70	3.90	2.90
21	3.50	5.16	8.35	17	24	26	9.70	7.54	5.85	4.70	3.90	2.90
22	4.30	5.16	9.16	16	23	20	9.70	7.54	5.62	4.70	3.90	2.70
23	3.70	7.81	7.81	17	26	17	9.43	7.27	5.62	4.70	3.90	3.10
24	4.10	9.43	8.08	28	26	15	9.43	7.27	5.39	4.70	3.50	3.30
25	4.10	7.27	16	35	19	14	9.16	7.00	5.39	4.70	3.50	3.30
26	4.10	15	14	29	23	14	10	7.00	5.39	4.70	3.30	3.10
27	5.16	12	12	25	36	15	14	7.54	5.16	4.70	3.30	3.10
28	4.50	8.08	9.43	18	24	17	12	7.27	5.16	4.70	3.30	3.70
29	4.30	7.27	8.89	16	24	22	11	7.27	5.85	4.50	3.50	3.90
30	4.50	6.31	8.35	15	32	17	12	7.27	6.54	4.30	–	3.30
31	–	9.70	–	13	33	–	17	–	5.85	4.30	–	2.90
Total	122.18	178.55	366.51	426.34	527.96	706	425.42	260.11	190.09	152.52	114.30	101.10
Mean	4.07	5.76	12.2	13.7	17.0	23.5	13.7	8.67	6.13	4.92	3.94	3.26
Max.	5.62	15	38	35	36	49	38	14	7.00	5.62	4.30	3.90
Min.	3.50	3.70	7.81	6.08	9.43	13	9.16	7.00	5.16	4.30	3.30	2.70
Runoff - mcm.	10.556	15.427	31.666	36.836	45.616	60.998	36.756	22.473	16.424	13.178	9.875	8.735

WATER YEAR 1971 : Max. 49 Min. 2.70 Mean 9.76 Annual Runoff 308,541 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 3	01.00	2.39	60				

MAE KOK RIVER BASIN

Mae Kok River at Mae Kok Bridge, Chiang Rai (G. 2A)

Location: Lat. 19°-55'-16" N., Long 99°-50'-57" E., On right bank about 80 meters downstream from the bridge at Chiang Rai-Mae Han highway, Amphoe Muang, Chiang Kai.

Drainage Area: 6,063 sq.km.

Type of Gage: Water-stage recorder and Staff gage.

Zero Gage at Bottom at: + 389.00 m (M.S.L.)

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

Location: Near automatic gage building.
Elevation: + 392.602 m (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1958 to date

Rating Operation:

Period of Rating: 1958-1960, 1967-1971
Rated by Float: -
Rated by Current Meter: 1958-1960, 1967-1971.

Stability of Channel Regimes: Fairly stable by some silting, no shifting adjustment for flow computation.

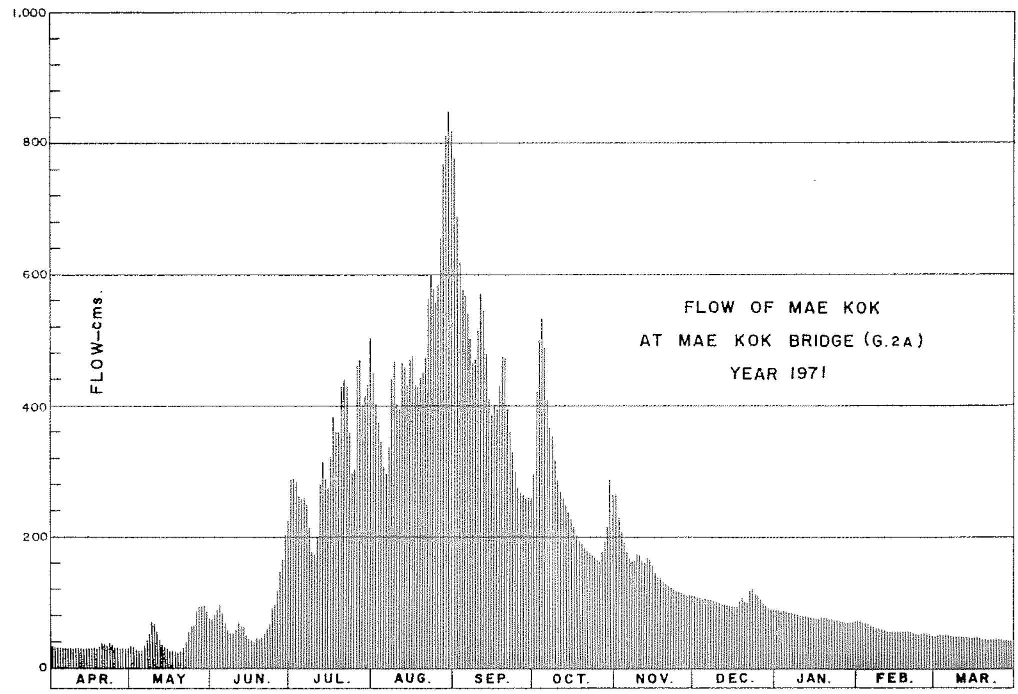
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No state diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.71	390.72	391.01	391.84	392.32	393.06	391.81	391.77	391.20	391.09	391.02	390.84
2	.70	.71	.07	.85	.15	392.91	392.17	.69	.19	.09	390.99	.84
3	.70	.67	.11	.83	.09	.72	.41	.60	.19	.09	.98	.85
4	.69	.65	.13	.76	391.99	.60	.50	.53	.19	.08	.98	.86
5	.69	.64	.05	.75	.90	.58	.41	.48	.18	.07	.97	.87
6	390.69	390.73	390.96	391.76	391.86	392.51	392.21	391.45	391.18	391.07	390.95	390.86
7	.68	.80	.90	.72	.96	.41	.08	.43	.17	.07	.94	.86
8	.68	.85	.86	.58	392.26	.33	.04	.43	.17	.06	.93	.85
9	.68	391.00	.87	.48	.34	.35	391.93	.47	.16	.05	.92	.84
10	.68	390.98	.91	.46	.17	.49	.85	.46	.14	.05	.91	.84
11	390.68	390.90	390.98	391.59	392.14	392.59	391.80	391.43	391.14	391.04	390.91	390.84
12	.68	.81	.93	.81	.34	.53	.76	.41	.14	.04	.90	.83
13	.68	.75	.92	.92	.32	.34	.73	.45	.13	.03	.90	.83
14	.69	.70	.85	.84	.24	.18	.70	.44	.13	.03	.90	.82
15	.68	.68	.80	.80	.35	.11	.66	.41	.12	.02	.90	.82
16	390.68	390.65	390.78	391.96	392.36	392.17	391.62	391.36	391.12	391.02	390.90	390.83
17	.69	.65	.77	392.12	.25	.13	.57	.33	.12	.02	.90	.82
18	.68	.64	.82	.05	.23	.20	.54	.32	.17	.03	.90	.82
19	.72	.63	.81	.05	.28	.35	.53	.30	.19	.03	.90	.81
20	.77	.65	.84	.24	.30	.35	.51	.28	.16	.02	.89	.81
21	390.75	390.68	390.88	392.27	392.36	392.16	391.49	391.27	391.16	391.01	390.88	390.81
22	.73	.81	.94	.25	.56	.07	.48	.26	.24	.00	.87	.80
23	.77	.89	.98	.06	.66	391.99	.46	.25	.26	.00	.87	.80
24	.73	.95	391.12	391.87	.60	.90	.45	.24	.22	.00	.86	.80
25	.69	.96	.15	.89	.55	.82	.44	.23	.21	.00	.87	.80
26	390.71	391.12	391.31	392.32	392.64	391.78	391.43	391.23	391.17	390.99	390.87	390.80
27	.67	.12	.40	.35	.86	.77	.52	.22	.14	.99	.86	.79
28	.68	.12	.46	.16	393.07	.75	.54	.22	.12	.98	.86	.79
29	.68	.13	.61	.21	.10	.76	.63	.22	.11	.98	.85	.79
30	.70	.08	.66	.25	.17	.76	.84	.21	.10	391.00	-	.79
31	-	.02	-	.43	.12	-	.77	-	.09	.00	-	.79
Mean	390.70	390.83	391.03	391.95	392.40	392.25	391.77	391.38	391.16	391.03	390.91	390.82
Max.	390.77	391.13	391.66	392.43	393.17	393.06	392.50	391.77	391.26	391.09	391.02	390.87
Min.	390.67	390.63	390.77	391.46	391.86	391.75	391.43	391.21	391.09	390.98	390.85	390.79

WATER YEAR 1971 : Max. 393.17 m. Min. 390.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33	34	75	287	460	790	277	264	109	88	76	49
2	32	33	85	290	396	715	403	238	107	88	71	49
3	32	29	92	284	374	627	496	211	107	88	70	51
4	31	27	96	261	338	574	533	191	107	87	70	52
5	31	26	81	257	307	566	496	177	105	85	68	53
6	31	36	67	261	294	537	418	169	105	85	65	52
7	30	44	57	248	328	496	371	164	103	85	64	52
8	30	51	52	205	437	464	356	164	103	83	62	51
9	30	73	53	177	468	472	317	174	101	81	61	49
10	30	70	59	172	403	529	290	172	98	81	59	49
11	30	57	70	208	392	570	274	164	98	80	59	49
12	30	45	62	277	468	545	261	159	98	80	57	48
13	30	38	61	314	460	468	251	169	96	78	57	48
14	31	32	51	287	429	407	241	166	96	78	57	47
15	30	30	44	274	472	382	229	159	94	76	57	47
16	30	27	42	328	476	403	217	146	94	76	57	48
17	31	27	40	385	433	389	202	138	94	76	57	47
18	30	26	47	360	425	414	194	136	103	78	57	47
19	34	25	45	360	444	472	191	131	107	78	57	45
20	40	27	49	429	452	472	185	127	101	76	56	45
21	38	30	55	441	476	400	179	124	101	75	55	45
22	36	45	64	433	558	367	177	122	118	73	53	44
23	40	56	70	364	600	338	172	120	122	73	53	44
24	36	65	94	297	574	307	169	118	113	73	52	44
25	31	67	99	304	553	281	166	116	111	73	53	44
26	33	94	133	460	592	267	164	116	103	71	53	44
27	29	94	156	472	691	264	188	113	98	71	52	43
28	30	94	172	400	795	257	194	113	94	70	52	43
29	30	96	214	418	810	261	220	113	92	70	51	43
30	32	87	229	433	848	261	287	111	90	73	–	43
31	–	76	–	504	821	–	264	–	88	73	–	43
Total	961	1,561	2,514	10,190	15,574	13,295	8,382	4,585	3,156	7,422	1,711	1,458
Mean	32.0	50.3	83.8	329	502	443	270	153	102	78.1	59.0	47.0
Max.	40	96	229	504	848	790	533	264	122	88	76	53
Min.	29	25	40	172	294	257	164	111	88	70	51	43
Runoff – mcm.	83.030	134.870	217.210	880.416	1,345.594	1,148.68	724.205	396.144	272.678	209.261	147.830	125.971

WATER YEAR 1971 : Max. 848 Min. 25 Mean 180 Annual Runoff 5,685.898 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.30	10.00	393.20	864				

MAE KHONG RIVER BASIN

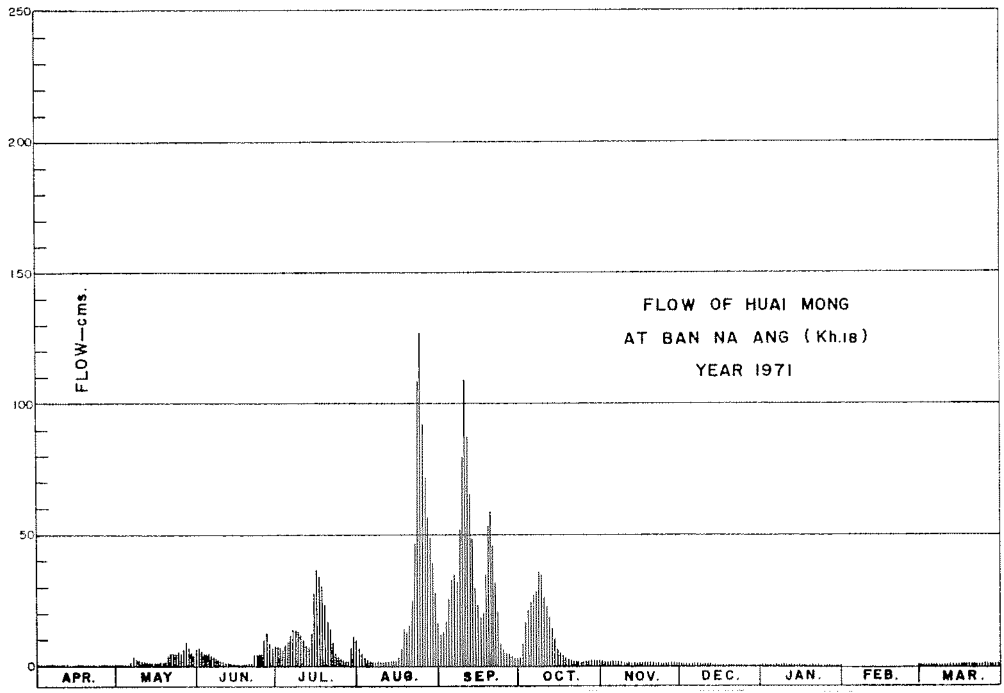
Huai Mong at Ban Na Ang, Udon Thani (Kh. 18)

Location:	Lat. 17°–34'–39" N., Long 102°–20'–19" E., On right bank about 300 meters downstream from confluence of Huai Nam Ban and Huai Pak Kong. Amphoe Ban Phu, Udon Thani.
Drainage Area:	1,307 sq.km.
Type of Gage:	Water-Stage recorder.
Zero Gage at Bottom at:	+ 0.00 m (A.D.)
Bench Mark:	B.M.–H.S.
Location:	On right bank near the camp of gaging station Kh.18
Elevation:	+ 7.590 m (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1957 to date
Rating Operation:	
Period of Rating:	1957–1959, 1965–1966, 1974 to date.
Rated by Float:	–
Rated by Current Meter:	1957–1959, 1965–1966, 1974 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for year without actual rating.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage–discharge relationship used is defined by discharge measurements made during 1966. No upstream state diversions except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.96	1.13	2.80	2.83	2.75	3.59	2.07	1.58	1.31	1.20		1.13
2	.98	.14	.54	.68	.21	.52	3.16	.58	.30	.20		.12
3	.96	.12	.30	.63	1.97	4.09	4.37	.53	.29	.19		.11
4	.96	.06	.30	.91	.82	5.03	.63	.48	.28	.19		.15
5	.96	.02	.24	3.17	.56	.51	.80	.46	.25	.18		.19
6	0.96	1.36	2.11	3.53	1.56	5.61	5.05	1.43	1.20	1.18		1.17
7	.96	2.12	1.92	.78	.52	.30	.10	.40	.20	.17		.17
8	.95	1.88	.70	.80	.47	6.21	.65	.38	.20	.14		.17
9	.97	.68	.51	.68	.45	7.04	.63	.37	.18	.13		.15
10	.97	.59	.38	.53	.46	.27	.09	.36	.26	.08		.15
11	0.97	1.47	1.31	3.24	1.51	7.01	4.72	1.33	1.24	1.12		1.16
12	.97	.41	.24	2.83	.48	6.44	.33	.33	.19	.13		.17
13	.98	.37	.24	.75	.53	5.77	3.67	.38	.17	.14		.08
14	.98	.33	.21	3.48	.68	.16	.11	.36	.15	.10		.06
15	.96	.31	.19	5.16	.63	4.69	2.69	.31	.14	.11		.03
16	0.98	1.32	1.16	5.75	1.94	4.30	2.33	1.35	1.13	1.12		1.01
17	.97	.37	.14	.52	2.63	.38	.16	.33	.19	.23		.00
18	.96	.38	.13	.21	3.38	5.94	1.85	.34	.19	.29		.01
19	.95	.48	.15	4.81	.73	6.50	.73	.38	.17	.25		.03
20	.94	2.11	.15	.31	.95	.23	.64	.38	.18	.22		.03
21	0.94	2.38	1.50	3.77	4.43	5.65	1.62	1.38	1.19	1.22		1.01
22	.95	.36	2.23	.01	5.79	4.91	.54	.35	.20	.21		.02
23	.96	.33	.19	2.37	7.26	3.92	.49	.33	.21	.20		.01
24	.98	.46	.20	.01	.41	.08	.46	.29	.26	.19		.00
25	1.03	.29	.25	1.80	.13	2.64	.44	.34	.26	.20		.01
26	1.02	2.70	3.67	1.66	6.82	2.28	1.49	1.38	1.21	1.21		1.08
27	.00	3.10	.63	.56	.41	.18	.57	.43	.18	.22		.07
28	.00	2.58	2.97	.59	.15	1.94	.67	.40	.15	.20		.04
29	.01	.19	.68	2.99	5.73	.86	.69	.38	.18	.19		.02
30	.07	.03	.89	3.51	.02	.83	.68	.34	.16	.18		.06
31		.71		.27	4.08		.63		.17	.17		.10
Mean	0.97	1.80	1.96	3.33	3.47	4.66	2.94	1.39	1.21	1.18		1.08
Max.	1.03	3.10	3.67	5.75	7.41	7.27	5.65	1.58	1.31	1.29		1.19
Min.	0.94	1.02	1.13	1.56	1.45	1.83	1.44	1.29	1.13	1.08		1.00

WATER YEAR 1971 : Max. 7.41 m. Min. 0.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.32	0.56	7.30	7.45	7.00	12	3.68	1.84	1.03	0.70		0.56
2	0.36	0.58	5.84	6.60	4.25	13	9.36	1.84	1.00	0.70		0.54
3	0.32	0.54	4.70	6.35	3.25	16	19	1.69	0.97	0.68		0.52
4	0.32	0.46	4.70	7.86	2.66	26	21	1.54	0.94	0.68		0.60
5	0.32	0.42	4.40	9.42	1.78	33	24	1.48	0.85	0.66		0.68
6	0.32	1.18	3.84	12	1.78	35	27	1.39	0.70	0.66		0.64
7	0.32	3.88	3.00	14	1.66	30	27	1.30	0.70	0.64		0.64
8	0.30	2.84	2.20	14	1.51	48	36	1.24	0.70	0.58		0.64
9	0.34	2.14	1.63	13	1.45	86	35	1.21	0.66	0.56		0.60
10	0.34	1.87	1.24	12	1.48	109	27	1.18	0.88	0.48		0.60
11	0.34	1.51	1.03	9.88	1.63	84	23	1.09	0.82	0.54		0.62
12	0.34	1.33	0.82	7.45	1.54	55	19	1.09	0.68	0.56		0.64
13	0.36	1.21	0.82	7.00	1.69	38	13	1.24	0.64	0.58		0.48
14	0.36	1.09	0.73	11	2.14	28	9.06	1.18	0.60	0.50		0.47
15	0.32	1.03	0.68	28	1.99	22	6.65	1.03	0.58	0.52		0.43
16	0.36	1.06	0.62	37	3.10	18	4.82	1.15	0.56	0.54		0.41
17	0.34	1.21	0.58	33	6.35	19	4.04	1.05	0.68	0.79		0.40
18	0.32	1.24	0.56	29	11	41	2.75	1.12	0.68	0.97		0.41
19	0.30	1.54	0.60	24	13	58	2.35	1.24	0.64	0.85		0.43
20	0.28	3.84	0.60	18	15	49	2.02	1.24	0.66	0.76		0.43
21	0.28	5.02	1.60	14	20	36	1.96	1.24	0.68	0.76		0.41
22	0.30	4.94	4.35	8.46	38	25	1.72	1.15	0.70	0.73		0.42
23	0.32	4.82	4.16	4.98	108	15	1.57	1.09	0.73	0.70		0.41
24	0.36	5.40	4.20	3.44	127	8.88	1.48	0.97	0.88	0.68		0.40
25	0.43	4.65	4.45	2.60	94	6.40	1.42	1.12	0.88	0.70		0.41
26	0.42	6.70	13	2.08	72	4.60	1.57	1.24	0.73	0.73		0.48
27	0.40	9.00	13	1.78	54	4.12	1.81	1.39	0.66	0.76		0.47
28	0.40	6.08	8.22	1.87	47	3.10	2.11	1.30	0.60	0.70		0.44
29	0.41	4.16	6.60	8.34	37	2.78	2.17	1.24	0.66	0.68		0.42
30	0.41	3.52	7.75	12	26	2.69	2.14	1.12	0.62	0.66		0.46
31	–	6.75	–	10	16	–	1.99	–	0.64	0.64		0.50
Total	10.31	90.58	113.22	376.56	723.26	928.57	335.64	38.04	22.75	20.69		15.56
Mean	0.34	2.92	3.77	12.1	23.3	30.9	10.8	1.27	0.73	0.67		0.50
Max.	0.43	9.00	13	37	127	109	36	1.84	1.03	0.97		0.68
Min.	0.28	0.42	0.56	1.78	1.45	2.69	1.42	0.97	0.56	0.48		0.40
Runoff - mcm.	0.891	7.826	9.782	32.535	62.490	80.228	28.999	3.287	1.966	1.788		1.344

WATER YEAR 1971 : Max. 127 Min. 0.28 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.24	01.00	7.51	142				

Nam Un River at Ban Khok Sa-At, Sakon Nakhon (Kh. 20 B)

Location: Lat. 17°-18'-08" N., Long. 103°-45'-27" E., on left bank about 1 kilometer north-east of Ban Nong Bua, and about 500 meters upstream from Nam Un Damsite, Amphoe Phannanikhom, Sakon Nakhon.

Drainage Area: 1,117 sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 160.00 m. (M.S.L.)

Bench Mark: B.M. - RID No. 4

Location: Located at a distance of 20 meters from right bank at the damsite.
Elevation: + 169.900 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 hourly readings.

Period of Available Gage Records: 1962-1971

Rating Operation:

Period of Rating: 1962-1971
Rated by Float: -
Rated by Current Meter: 1962-1971

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

Overbank Flow Conditions: Overbank flow starts at elevation + 170.00 m. (M.S.L.) on left bank

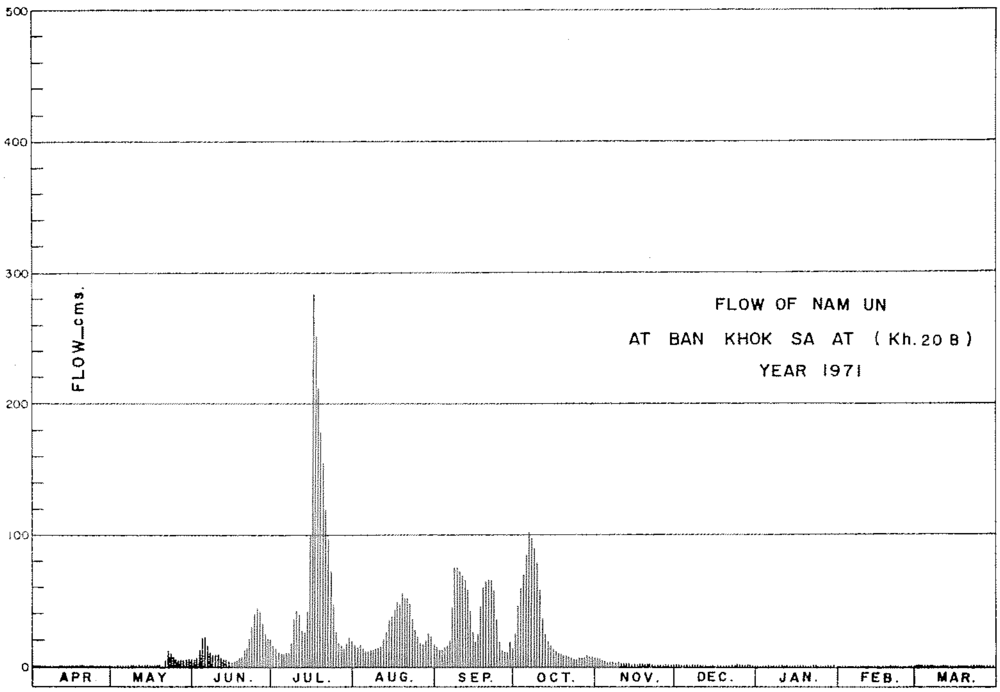
General Description: Records good. Gage heights during April 1 - May 21 and November 1 - March 31 affected by damming downstream, the flows for these two periods taken from station Kh. 20c, about 900 meters downstream where gage height and discharge measurements were made. No diversion above the gage site.

Remarks: Damming about 100 meters downstream of the gage site was used to store water for human use during dry season.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			163.64	164.23	164.22	164.22	164.83					
2			.74	.11	.22	.10	165.59					
3			164.12	163.96	.31	.14	166.03					
4			.49	.89	.19	.23	.41					
5			.57	.97	.03	.29	.91					
6			164.23	163.99	164.08	164.57	167.34					
7			163.94	164.09	.06	165.83	.29					
8			.83	.66	.14	166.54	.03					
9			.88	165.23	.23	.52	166.60					
10			.86	.36	.29	.40	165.99					
11			163.71	165.22	164.28	166.29	165.14					
12			.57	164.78	.61	.20	164.63					
13			.56	.74	.83	165.93	.41					
14			.46	166.81	165.12	.06	.26					
15			.30	167.59	.24	164.62	.13					
16			163.43	169.94	165.51	164.39	164.04					
17			.64	.80	.67	.84	163.97					
18			.69	.33	.56	165.79	.94					
19			.74	168.95	.88	166.11	.88					
20			164.09	.39	.73	.21	.83					
21			164.22	167.72	165.74	166.23	163.76					
22		164.05	.49	.10	.48	.19	.70					
23		163.89	165.02	166.49	.02	165.78	.66					
24		.68	.36	165.51	164.75	164.83	.63					
25		.53	.44	164.65	.52	.28	.69					
26		163.52	165.29	164.33	164.35	164.09	163.80					
27		.49	164.92	.24	.32	163.99	.87					
28		.55	.64	.19	.57	164.02	.86					
29		.62	.48	.38	.66	.37	.81					
30		.65	.45	.54	.53	.13	.75					
31		.65	-	.41	.33	-	.70					
Mean			164.16	165.70	164.72	165.14	164.76					
Max.			165.44	169.94	165.88	166.54	167.34					
Min.			163.30	163.89	164.03	163.99	163.63					

WATER YEAR 1971 : Max. 196.94 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	*0.025	*0.037	5.72	15	15	15	28	*5.77	*1.46	*0.824	0.29	0.12
2	*0.012	*0.037	7.02	13	15	13	48	*5.14	*1.46	*0.608	0.22	0.12
3	*0.012	*0.025	13	10	17	13	60	*4.64	*1.32	*0.474	0.17	0.12
4	*0.012	*0.025	21	8.95	14	15	71	*4.10	*1.25	*0.500	0.14	0.11
5	*0.012	*0.025	22	10	11	16	87	*3.88	*1.25	*0.554	0.12	0.11
6	*0.012	*0.025	15	11	12	22	102	*3.78	*1.25	*0.608	0.12	0.11
7	*0.000	*0.207	9.98	12	12	54	100	*3.67	*1.25	*0.770	0.10	0.11
8	*0.037	*0.474	8.25	25	13	75	91	*2.98	*1.18	*0.878	0.091	0.12
9	*0.050	*0.448	8.80	38	15	75	77	*3.78	*1.04	*0.770	0.091	0.12
10	*0.037	*0.448	8.60	42	16	71	59	3.18	*0.932	*0.662	0.091	0.16
11	*0.037	*0.422	6.63	38	16	68	37	*2.79	*0.932	*0.716	0.075	0.12
12	*0.025	*0.266	4.97	27	23	65	24	*2.60	*0.344	*0.662	0.075	0.16
13	*0.012	*0.240	4.86	26	28	57	19	*2.43	*0.000	*0.716	0.075	0.16
14	*0.012	*0.266	4.00	84	36	34	16	*2.25	*0.075	*0.662	0.062	0.12
15	*0.012	*0.266	2.40	111	39	24	13	*2.25	*0.878	*0.608	0.062	0.12
16	*0.012	*0.223	3.50	283	46	18	12	*2.17	*0.878	*0.554	0.062	0.12
17	*0.037	*0.190	5.72	260	50	29	10	*2.08	*0.770	*0.500	0.050	0.12
18	*0.037	*0.448	6.32	207	47	53	9.98	*2.17	*0.716	*0.500	0.050	0.12
19	*0.037	*0.716	7.02	178	56	62	8.80	*2.17	*0.770	*0.448	0.050	0.11
20	*0.025	*0.770	12	145	51	65	8.25	*2.08	*0.716	0.422	0.037	0.11
21	*0.025	*4.42	15	116	52	66	7.28	*2.00	*0.878	*0.396	0.12	0.11
22	*0.037	12	21	93	45	65	6.50	*1.83	*1.25	*0.370	0.16	0.11
23	*0.037	8.95	33	74	33	53	5.96	*1.83	*1.46	*0.396	0.16	0.11
24	*0.025	6.20	42	47	27	28	5.66	*1.67	*2.00	*0.370	0.14	0.11
25	*0.025	4.53	44	24	21	16	6.32	*1.60	*1.83	*0.370	0.14	0.12
26	*0.025	4.42	40	17	18	12	7.80	*1.67	*1.53	*0.344	0.14	0.14
27	*0.025	4.10	30	15	17	11	8.75	*1.67	*1.39	*0.344	0.14	0.12
28	*0.012	4.75	24	14	21	11	8.60	*1.60	*1.18	*0.344	0.12	0.12
29	*0.012	5.54	20	18	25	18	7.95	*1.60	*0.986	*0.344	0.12	0.11
30	*0.025	5.84	20	22	22	13	7.15	*1.60	*0.932	*0.344	-	0.11
31	-	5.84	-	19	17	-	6.50	-	*0.932	*0.344	-	0.11
Total	0.703	72.148	465.79	2,002.95	830	1,137	959.50	80.98	32.839	16.294	3.271	3.73
Mean	0.023	2.33	15.5	64.6	26.8	37.9	30.9	2.70	1.06	0.526	0.109	0.120
Max.	0.050	12	44	283	56	75	102	5.77	2.00	0.824	0.29	0.16
Min.	0.000	0.025	2.40	8.95	11	11	5.66	1.60	0.000	0.344	0.037	0.11
Runoff - mcm.	0.061	6.233	40.244	173.055	71.712	98.237	82.901	6.997	2.837	1.408	0.283	0.322

WATER YEAR 1971 : Max. 283 Min. 0.037 Mean 15.3 Annual Runoff 484.290 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 16	18.00	170.04	301				

MAE KHONG RIVER BASIN

Nam Loei at Wat Ku Kam, Loei (Kh. 43)

Location: Lat. 17°-14'-15" N., Long. 101°-41'-31" E., on left bank downstream of Wat Ku Kam at Ban Sai Khao, Amphoe Wang Saphung, Loei.

Drainage Area: 991 sq.km.

Type of Gage: Staff gage.

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

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

Location: At tamarind tree along the measuring line.
Elevation: + 10.689 m. (A.D.)

Gage Reading Frequency: 3-time daily readings at 07.00, 12.00 and 17.00 hours.

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

Period of Available Gage Records: 1966-to date.

Rating Operation:

Period of Rating: 1966-1973
Rated by Float: -
Rated by Current Meter: 1966-1973.

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

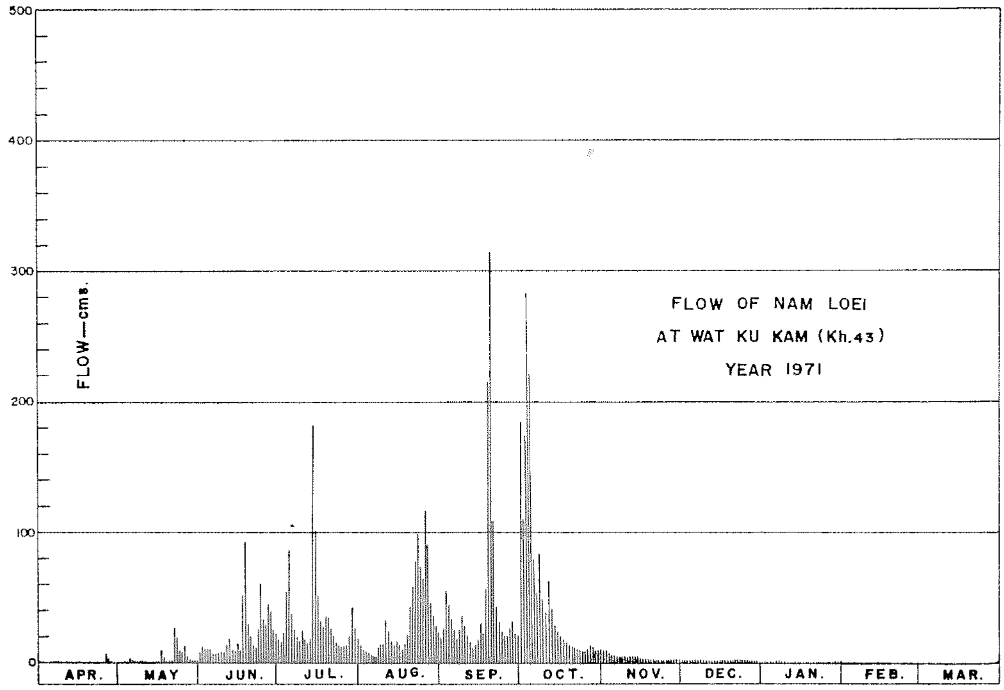
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship is defined by discharge measurements made during 1971. No state diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.67	0.75	1.23	1.34	1.28	1.38	3.79	1.17	0.90	0.83	0.75	0.70
2	.67	.83	.24	.34	.21	.63	2.79	.13	.89	.83	.74	.69
3	.67	.87	.19	.61	.16	2.15	4.77	.11	.89	.82	.74	.69
4	.66	.83	.27	2.11	.12	1.98	.10	.09	.89	.82	.74	.69
5	.66	.99	.17	2.62	.09	.68	2.90	.07	.89	.82	.74	.69
6	0.66	0.89	1.08	1.73	1.07	1.45	2.18	1.05	0.88	0.81	0.73	0.69
7	.66	.85	.11	.55	.05	.35	.15	.04	.88	.81	.73	.68
8	.65	.84	.13	.41	.26	.68	.57	.03	.87	.81	.72	.70
9	.65	.85	.14	.36	.28	.79	.01	.02	.87	.80	.72	.70
10	.68	.81	.13	.54	.34	.52	1.81	.01	.86	.80	.71	.70
11	0.68	0.77	1.26	1.37	1.72	1.38	2.25	1.01	0.86	0.80	0.72	0.69
12	.75	.75	.41	.28	.45	.30	.22	.00	.85	.60	.72	.69
13	.76	.74	.26	.42	.30	.25	1.74	0.99	.85	.79	.72	.69
14	.72	.73	.13	3.76	.29	.33	.58	.98	.85	.79	.71	.68
15	.76	.80	.34	2.93	.39	.42	.48	.97	.85	.79	.71	.68
16	0.79	0.92	1.20	2.03	1.28	1.68	1.41	0.96	0.84	0.79	0.71	0.70
17	.74	1.19	2.10	1.68	.19	.48	.36	.95	.84	.78	.71	.70
18	.74	0.98	.71	.59	.37	2.08	.32	.94	.84	.78	.74	.72
19	.72	.87	1.70	.79	.54	5.03	.28	.94	.84	.78	.72	.72
20	.69	.84	.50	.73	2.05	4.16	.25	.93	.83	.78	.74	.69
21	0.67	0.97	1.27	1.56	2.19	2.24	1.23	0.93	0.85	0.77	0.73	0.71
22	.66	1.59	.23	.41	.50	1.85	.22	.92	.85	.77	.73	.73
23	.66	.44	.60	.32	.79	.64	.18	.92	.86	.77	.74	.72
24	.65	.16	2.25	.26	.37	.50	.16	.91	.86	.77	.74	.76
25	.75	.13	1.66	.25	.30	.43	.15	.91	.86	.76	.72	.73
26	1.12	1.26	1.63	1.32	3.00	1.44	1.23	0.91	0.85	0.76	0.72	0.73
27	0.85	.00	.95	.32	2.51	.68	.28	.91	.84	.76	.71	.71
28	.77	0.88	.81	.47	1.89	.70	.20	.91	.84	.76	.71	.69
29	.75	.85	.54	.91	.78	.51	.18	.91	.84	.75	.70	.68
30	.75	.85	.45	.59	.56	.43	.22	.90	.83	.75		.68
31		.96		.38	.45		.20		.83	.75		.77
Mean	0.72	0.94	1.46	1.68	1.64	1.80	1.88	0.98	0.86	0.79	0.72	0.70
Max.	1.12	1.59	2.71	3.76	3.00	5.03	4.77	1.17	0.90	0.83	0.75	0.77
Min.	0.65	0.73	1.08	1.25	1.05	1.25	1.15	0.90	0.83	0.75	0.70	0.68

WATER YEAR 1971 : Max. 5.03 m. Min. 0.65 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.14	0.60	12	16	14	18	184	9.45	2.30	1.39	0.60	0.20
2	0.14	1.39	12	16	11	29	99	8.05	2.17	1.39	0.52	0.18
3	0.14	1.91	10	28	9.10	55	283	7.35	2.17	1.26	0.52	0.18
4	0.12	1.39	13	53	7.70	46	212	6.73	2.17	1.26	0.52	0.18
5	0.12	4.10	9.45	86	6.73	31	108	6.19	2.17	1.26	0.52	0.18
6	0.12	2.17	6.46	34	6.19	21	57	5.65	2.04	1.13	0.44	0.18
7	0.12	1.65	7.35	25	5.65	17	55	5.38	2.04	1.13	0.44	0.16
8	0.10	1.52	8.05	19	13	31	83	5.11	1.91	1.13	0.36	0.20
9	0.10	1.65	8.40	17	14	37	48	4.84	1.91	1.00	0.36	0.20
10	0.16	1.13	8.05	25	16	24	38	4.57	1.78	1.00	0.28	0.20
11	0.16	0.76	13	17	33	18	61	4.57	1.78	1.00	0.36	0.18
12	0.60	0.60	19	14	21	14	59	4.30	1.65	1.00	0.36	0.18
13	0.68	0.52	13	19	14	12	34	4.10	1.65	0.92	0.36	0.18
14	0.36	0.44	8.05	181	14	16	27	3.90	1.65	0.92	0.28	0.16
15	0.68	1.00	16	110	17	19	22	3.70	1.65	0.92	0.28	0.16
16	0.92	2.70	10	49	14	31	19	3.50	1.52	0.92	0.28	0.20
17	0.52	10	52	31	10	22	17	3.30	1.52	0.84	0.28	0.20
18	0.52	3.90	93	27	17	51	15	3.10	1.52	0.84	0.52	0.36
19	0.36	1.91	32	37	25	314	14	3.10	1.52	0.84	0.36	0.36
20	0.18	1.52	23	34	50	218	12	2.90	1.39	0.84	0.52	0.18
21	0.14	3.70	13	26	57	61	12	2.90	1.65	0.76	0.44	0.28
22	0.12	27	12	19	78	40	11	2.70	1.65	0.76	0.44	0.44
23	0.12	20	28	15	99	29	9.80	2.70	1.78	0.76	0.52	0.36
24	0.10	9.10	61	13	69	23	9.10	2.50	1.78	0.76	0.52	0.68
25	0.60	8.05	30	12	64	20	8.75	2.50	1.78	0.68	0.36	0.44
26	7.70	13	29	15	116	20	12	2.50	1.65	0.68	0.36	0.44
27	1.65	4.30	45	15	79	31	14	2.50	1.52	0.68	0.28	0.28
28	0.76	2.04	38	22	42	32	10	2.50	1.52	0.68	0.28	0.18
29	0.60	1.65	25	43	36	23	9.80	2.50	1.52	0.60	0.20	0.16
30	0.60	1.65	21	27	26	20	11	2.30	1.39	0.60	–	0.16
31	–	3.50	–	18	21	–	10	–	1.39	0.60	–	0.76
Total	18.63	134.85	675.81	1,063	1,005.37	1,323	1,564.45	125.39	54.14	28.55	11.56	8.20
Mean	0.62	4.35	22.5	34.3	32.4	44.1	50.5	4.18	1.75	0.92	0.40	0.26
Max.	7.70	27	93	181	116	314	283	9.45	2.30	1.39	0.60	0.76
Min.	0.10	0.44	6.46	12	5.65	12	8.75	2.30	1.39	0.60	0.20	0.16
Runoff – mcm.	1.610	11.651	58.390	91.843	86.864	114.307	135.168	10.834	4.678	2.467	0.999	0.708

WATER YEAR 1972 : Max. 314 Min. 0.10 Mean 16.4 Annual Runoff 519.519 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	15.00	6.34	493				

Nam Loei at Tambon Sai Khao, Loei (Kh. 43A)

Location: Lat. 17°-13'-30" N., Long. 101°-41'-26" E., on right bank upstream from Kh. 43 station about 3 kilometers at Ban Sai Khao, Amphoe Wang Saphung, Loei.

Drainage Area: 790 sq.km.

Type of Gage: Staff gage.

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

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

Location: on left bank at tamarind tree along the measuring line.
Elevation: + 8.516 m. (A.D.)

Gage Reading Frequency: 3-time daily readings at 07.00, 12.00 and 17.00 hours.

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

Period of Available Gage Records: 1968 to date.

Rating Operation:

Period of Rating: 1968-1973
Rated by Float: -
Rated by Current Meter: 1968-1973

Stability of Channel Regimes: Fairly stable because of back water effect, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

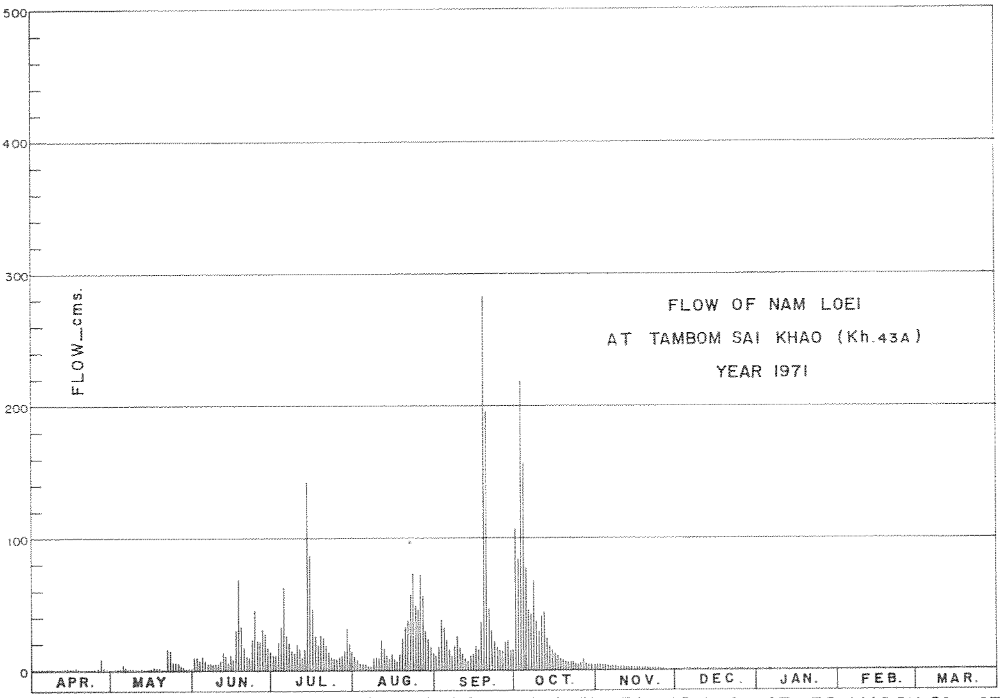
General Description: Records good. Stage-discharge relationship is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

Remarks: Mean hourly gage height and discharge for period July 13-16, October 1-6.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.50	0.60	1.14	1.22	1.15	1.22	2.96	0.98	0.75	0.66	0.58	0.53
2	.50	.72	.15	.21	.06	.47	.65	.96	.75	.65	.57	.53
3	.50	.76	.04	.52	.01	.94	4.50	.94	.75	.65	.57	.53
4	.50	.74	.18	.86	.97	.77	3.76	.92	.75	.65	.57	.53
5	.49	.92	.04	2.44	.93	.52	2.75	.91	.75	.65	.57	.53
6	0.49	0.76	0.93	1.63	0.90	1.28	2.08	0.90	0.74	0.64	0.58	0.53
7	.49	.74	.98	.45	.89	.18	.03	.90	.74	.64	.58	.52
8	.49	.76	.96	.28	1.13	.44	.53	.88	.73	.64	.56	.54
9	.49	.71	1.00	.23	.15	.65	1.90	.87	.73	.63	.55	.54
10	.51	.65	0.99	.47	.15	.38	.69	.86	.73	.63	.55	.53
11	0.55	0.61	1.10	1.27	1.57	1.22	2.01	0.86	0.72	0.63	0.55	0.53
12	.61	.58	.32	.13	.34	.13	.07	.85	.71	.63	.55	.53
13	.61	.58	.15	.35	.17	.08	1.60	.84	.71	.62	.55	.52
14	.58	.56	0.99	3.62	.11	.19	.43	.84	.71	.62	.54	.52
15	.67	.69	1.22	2.77	.25	.25	.32	.83	.71	.62	.54	.52
16	0.65	0.74	0.99	1.95	1.13	1.45	1.25	0.82	0.70	0.62	0.54	0.54
17	.59	.82	1.88	.59	.05	.30	.19	.81	.70	.61	.54	.53
18	.59	.76	2.55	.47	.21	.88	.14	.80	.69	.61	.57	.55
19	.56	.71	1.61	.68	.71	5.13	.10	.80	.68	.61	.56	.56
20	.52	.65	.42	.61	.86	3.77	.07	.79	.67	.61	.57	.53
21	0.51	0.74	1.17	1.43	1.99	2.11	1.07	0.79	0.70	0.60	0.56	0.55
22	.50	1.36	.11	.28	2.35	1.73	.06	.78	.69	.60	.56	.58
23	.50	.31	.46	.18	.61	.54	.03	.78	.70	.60	.58	.57
24	.49	0.99	2.11	.11	.21	.41	.00	.77	.68	.60	.58	.63
25	.61	1.01	1.53	.10	.11	.32	0.99	.77	.68	.59	.56	.59
26	1.11	0.99	1.54	1.16	2.61	1.27	1.04	0.77	0.67	0.59	0.56	0.59
27	0.72	.79	.76	.17	.29	.50	.10	.76	.67	.59	.55	.57
28	.64	.71	.67	.30	1.72	.52	.01	.76	.67	.59	.54	.55
29	.60	.69	.40	.79	.63	.36	.00	.76	.67	.58	.53	.55
30	.60	.69	.32	.48	.40	.28	0.99	.75	.66	.58		.54
31		.80		.24	.29		.99		.66	.58		.65
Mean	0.57	0.78	1.32	1.55	1.48	1.64	1.69	0.83	0.70	0.62	0.56	0.55
Max.	1.11	1.36	2.55	3.62	2.61	5.13	4.50	0.98	0.75	0.66	0.58	0.65
Min.	0.49	0.56	0.93	1.10	0.89	1.08	0.99	0.75	0.66	0.58	0.53	0.52

WATER YEAR 1971 : Max. 5.13 m. Min. 0.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	0.60	9.72	12	10	12	* 107	5.22	1.80	1.02	0.52	0.32
2	0.20	1.50	10	12	7.16	20	* 76	4.84	1.80	0.95	0.48	0.32
3	0.20	1.90	6.64	22	5.86	39	* 219	4.46	1.80	0.95	0.48	0.32
4	0.20	1.70	11	35	5.03	31	* 153	4.08	1.80	0.95	0.48	0.32
5	0.18	4.08	6.64	63	4.27	22	* 82	3.89	1.80	0.95	0.48	0.32
6	0.18	1.90	4.27	25	3.70	14	* 45	3.70	1.70	0.88	0.44	0.32
7	0.18	1.70	5.22	19	3.56	11	43	3.70	1.70	0.88	0.44	0.32
8	0.18	1.90	4.84	14	9.34	19	68	3.42	1.60	0.88	0.44	0.36
9	0.18	1.40	5.60	13	10	26	37	3.28	1.60	0.81	0.40	0.36
10	0.24	0.95	5.41	20	10	17	28	3.14	1.50	0.81	0.40	0.32
11	0.40	0.67	8.20	14	23	12	42	3.14	1.50	0.81	0.40	0.32
12	0.67	0.52	15	9.34	16	9.34	45	3.00	1.40	0.81	0.40	0.32
13	0.67	0.52	10	* 17	11	7.68	24	2.86	1.40	0.74	0.40	0.28
14	0.52	0.44	5.41	* 143	8.58	12	19	2.86	1.40	0.74	0.36	0.28
15	1.09	1.23	12	* 84	13	13	15	2.72	1.40	0.74	0.36	0.28
16	0.95	1.70	5.41	* 39	9.34	19	13	2.58	1.30	0.74	0.36	0.36
17	0.56	2.58	36	24	6.90	* 15	12	2.44	1.30	0.67	0.36	0.32
18	0.56	1.90	69	20	12	* 40	9.72	2.30	1.23	0.67	0.48	0.40
19	0.44	1.40	25	27	29	* 283	8.20	2.30	1.16	0.67	0.44	0.44
20	0.28	0.95	18	25	35	* 163	7.42	2.20	1.09	0.67	0.48	0.32
21	0.24	1.70	11	19	41	* 47	7.42	2.20	1.30	0.60	0.44	0.40
22	0.20	16	8.58	14	59	29	7.16	2.10	1.23	0.60	0.44	0.52
23	0.20	15	20	11	73	22	6.38	2.10	1.30	0.60	0.52	0.48
24	0.18	5.41	46	8.58	51	18	5.60	2.00	1.16	0.60	0.52	0.81
25	0.67	5.86	22	8.20	46	15	5.41	2.00	1.16	0.56	0.44	0.56
26	8.58	5.41	22	10	73	14	6.64	2.00	1.09	0.56	0.44	0.56
27	1.50	2.20	31	11	55	21	8.20	1.90	1.09	0.56	0.40	0.48
28	0.88	1.40	27	15	29	22	5.86	1.90	1.09	0.56	0.36	0.40
29	0.60	1.23	18	32	25	16	5.60	1.90	1.09	0.52	0.32	0.40
30	0.60	1.23	15	20	18	14	5.41	1.80	1.02	0.52	–	0.36
31	–	2.30	–	13	14	–	5.41	–	1.02	0.52	–	0.95
Total	21.73	87.28	493.94	799.12	716.74	1,003.02	1,122.43	86.03	42.83	22.54	12.48	12.48
Mean	0.72	2.81	16.5	25.8	23.1	33.4	36.2	2.87	1.38	0.73	0.43	0.40
Max.	8.58	16	69	143	73	283	219	5.22	1.80	1.02	0.52	0.95
Min.	0.18	0.44	4.27	8.20	3.56	7.68	5.41	1.80	1.02	0.52	0.32	0.28
Runoff - mcm.	1.877	7.541	42.676	69.044	61.926	86.661	96.978	7.433	3.700	1.947	1.078	1.078

WATER YEAR 1971 : Max. 283 Min. 0.18 Mean 12.1 Annual Runoff 381.941 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19	14.00	5.94	365				

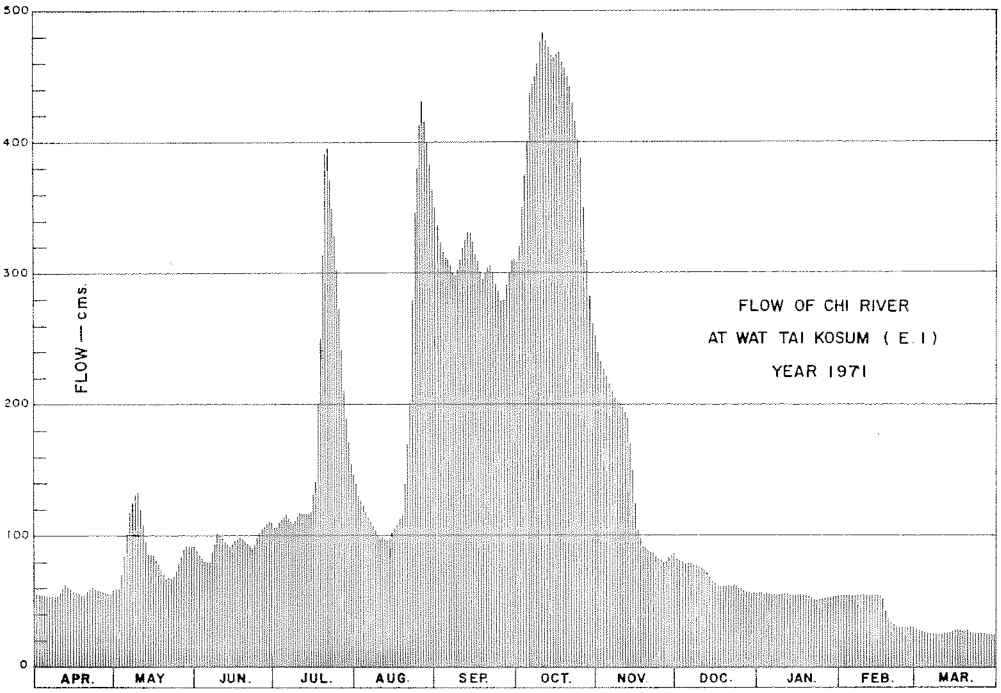
Chi River at Wat Tai Kosum, Maha Sarakham (E.1)

Location:	Lat. 16°-15'-02" N., Long. 103°-04'-25" E., on right bank about 800 meters north-east of the district office of Amphoe Kosum Phisai, Maha Sarakham.
Drainage Area:	29,788 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 136.64 m. (M.S.L.)
Bench Mark:	B.M. - E. 1
Location:	On right bank about 5 meters from the gage site.
Elevation:	+ 149.116 m. (M.S.L.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1936-1941, 1951 to date.
Rating Operation:	
Period of Rating:	1965-1973
Rated by Float:	-
Rated by Current Meter:	1965-1973
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Nam Phong Dam at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	138.05	138.14	138.64	138.89	139.42	142.21	141.85	140.85	138.52	138.08	138.05	137.54
2	.04	.14	.58	.93	.31	.09	.88	.77	.49	.08	.05	.51
3	.04	.32	.53	139.00	.20	141.98	142.36	.70	.48	.08	.05	.48
4	.03	.56	.49	.07	.13	.90	.70	.64	.47	.08	.05	.46
5	.03	.79	.49	.10	.05	.87	143.14	.61	.48	.08	.05	.45
6	138.02	139.11	138.49	139.08	139.01	141.81	143.42	140.50	138.48	138.08	138.05	137.44
7	.02	.27	.60	.02	138.97	.72	.58	.40	.46	.08	.05	.43
8	.02	.35	.80	138.95	.88	.73	.62	.38	.44	.07	.05	.43
9	.03	.37	.86	139.01	.83	.79	.78	.38	.44	.04	.05	.42
10	.13	.27	.83	.11	.79	.92	.94	.33	.43	.05	.05	.42
11	138.20	139.01	138.78	139.10	138.80	142.07	144.00	140.26	138.42	138.07	138.06	137.42
12	.19	138.73	.72	.09	.78	.14	143.96	.23	.39	.07	.06	.43
13	.12	.57	.69	.09	.77	.14	.87	139.99	.29	.06	.05	.44
14	.09	.59	.70	.14	.80	.09	.78	.51	.24	.05	.05	.44
15	.07	.59	.74	.24	.86	141.98	.77	.19	.22	.05	.05	.47
16	138.06	138.56	138.77	139.40	138.94	141.82	143.80	138.93	138.20	138.05	138.05	137.48
17	.05	.47	.80	.82	.99	.75	.81	.79	.17	.04	.06	.48
18	.04	.42	.78	140.92	139.04	.68	.78	.70	.16	.04	.00	.48
19	.05	.34	.76	142.26	.14	.69	.71	.65	.16	[illegible]	137.73	.46
20	.09	.27	.73	.88	.42	.80	.62	.64	.17	.04	.66	.48
21	138.14	138.29	138.70	142.94	139.96	141.83	143.52	138.63	138.18	138.02	137.63	137.48
22	.16	.26	.64	.71	140.72	.78	.41	.61	.18	137.99	.59	.48
23	.15	.31	.65	.39	141.88	.66	.27	.57	.18	.99	.56	.47
24	.11	.39	.79	141.98	142.83	.59	.08	.54	.18	.98	.55	.46
25	.10	.46	.87	.57	143.24	.48	142.89	.52	.16	.98	.55	.45
26	138.09	138.58	138.90	141.05	143.40	141.46	142.60	138.49	138.13	137.99	137.54	137.45
27	.08	.70	.93	140.66	.24	.64	.23	.50	.10	138.02	.54	.44
28	.07	.69	.95	.29	.07	.71	141.81	.53	.09	.02	.54	.43
29	.04	.69	139.01	139.99	142.85	.88	.46	.61	.09	.04	.54	.42
30	.13	.70	138.96	.73	.57	141.89	.20	.55	.09	.05		.42
31		.69		.57	.35		.01		.08	.05		.42
Mean	138.08	138.63	138.74	140.13	140.07	141.84	143.06	139.47	138.28	138.04	137.87	137.45
Max.	138.20	139.37	139.01	142.94	143.40	142.21	144.00	140.85	138.52	138.08	138.06	137.54
Min.	138.02	138.14	138.49	138.89	138.77	141.48	141.01	138.49	138.08	137.98	137.54	137.42

WATER YEAR 1971 : Max. 144.00 m. Min. 137.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55	60	89	104	136	337	307	234	82	57	55	31
2	55	60	86	107	130	327	310	229	80	57	55	29
3	55	70	83	111	123	318	349	224	80	57	55	28
4	54	85	80	115	119	312	376	220	79	57	55	27
5	54	98	80	117	114	310	411	218	80	57	55	27
6	54	118	80	116	112	305	434	210	80	57	55	27
7	54	127	87	112	109	298	446	203	79	57	55	26
8	54	132	99	108	104	298	450	202	77	56	55	26
9	54	133	103	112	101	303	463	202	77	55	55	26
10	59	127	101	118	98	314	478	198	77	55	55	26
11	63	112	98	117	99	326	483	193	76	56	56	26
12	63	95	94	116	98	331	479	191	74	56	56	26
13	59	85	92	116	97	331	471	174	68	56	55	27
14	57	86	93	119	99	329	463	142	65	55	55	27
15	56	86	95	125	103	318	462	122	64	55	55	28
16	56	85	97	135	107	306	465	107	63	55	55	28
17	55	79	99	162	110	300	466	98	61	55	56	28
18	55	76	98	239	113	294	463	93	61	55	53	28
19	55	71	97	341	119	295	457	90	61	55	39	27
20	57	67	95	390	136	304	450	89	61	55	36	28
21	60	68	93	395	172	306	442	89	62	54	34	28
22	61	67	89	377	225	302	433	88	62	52	33	28
23	60	70	90	351	310	293	422	85	62	52	31	28
24	58	74	98	318	386	287	406	83	62	52	31	27
25	58	79	103	286	419	279	391	82	61	52	31	27
26	57	86	105	249	432	279	368	80	59	52	31	27
27	57	93	107	221	419	291	338	81	58	54	31	27
28	56	92	108	195	406	297	305	83	57	54	31	26
29	55	92	112	174	388	310	277	88	57	55	31	26
30	59	93	109	156	366	311	259	84	57	55	–	26
31	–	92	–	147	348	–	246	–	57	55	–	26
Total	1,705	2,758	2,860	5,849	6,098	9,211	12,570	4,282	2,099	1,705	1,350	842
Mean	56.3	88.9	95.3	189	197	307	405	143	67.7	55.0	46.5	27.2
Max.	63	133	112	395	432	337	483	234	82	57	56	31
Min.	54	60	80	104	97	279	246	80	57	52	31	26
Runoff - MCM.	147.312	238.291	247.104	505.094	526.867	795.830	1,086.048	369.965	181.354	147.312	116.640	72.749

WATER YEAR 1971 : Max. 483 Min. 26 Mean 140 Annual Runoff 4,434.826 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	07.00	144.00	483				

Chi River at Wat Si Thammaram, Yasothon (E.2)

Location: Lat. 15°-47'-06" N., Long. 104°-08'-36" E., on left bank about 1.5 kilometers south of office of Amphoe Yasothon and 500 meters downstream from Wat Si Thammaram, Amphoe Yasothon, Yasothon.

Drainage Area: 47,391 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 117.00 m. (M.S.L.)

Bench Mark: B.M. of the Survey Department No. 97

Location: 15 meters east of the 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
Rated by Float: -
Rated by Current Meter: 1951

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

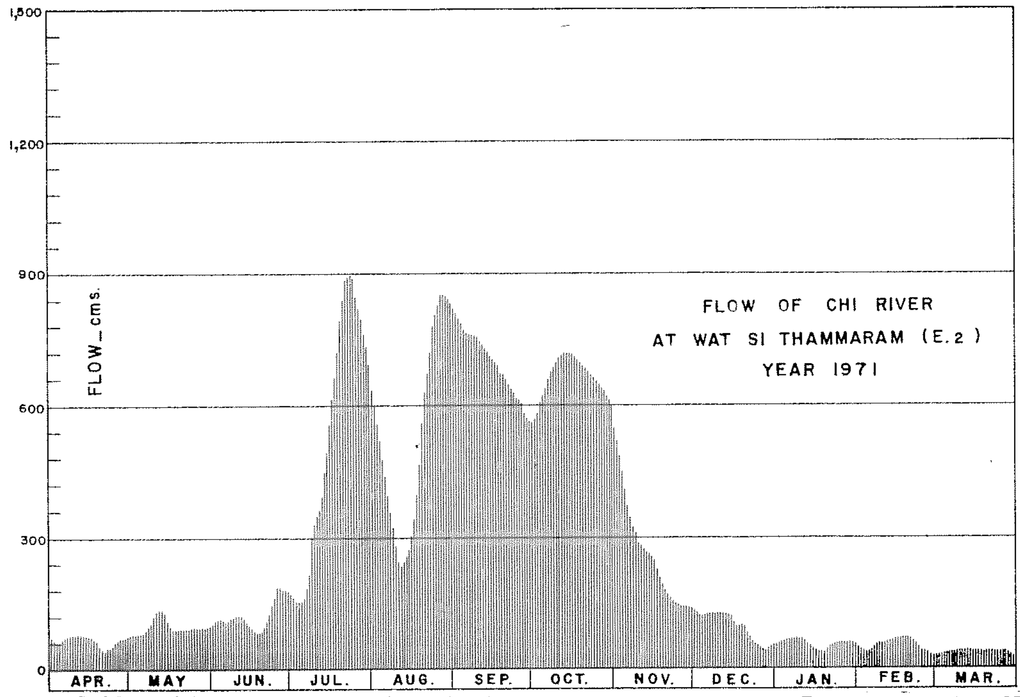
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1951. Flow regulated by Nam Phong and Lampao Dam at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	119.83	119.88	120.26	121.07	124.80	125.62	124.40	124.34	120.73	119.62	119.49	119.17
2	.72	.88	.34	120.99	.53	.58	.46	.09	.64	.66	.43	.16
3	.65	.89	.37	.89	.26	.53	.54	123.82	.55	.70	.40	.18
4	.71	.91	.39	.90	123.96	.49	.67	.51	.54	.73	.37	.22
5	.77	.91	.36	.89	.68	.45	.77	.24	.56	.75	.38	.25
6	119.81	119.97	120.34	120.94	123.40	125.42	124.86	122.99	120.58	119.76	119.40	119.27
7	.85	120.07	.36	121.22	.12	.41	.95	.77	.58	.78	.50	.29
8	.87	.19	.41	.89	122.80	.41	125.04	.56	.58	.79	.60	.31
9	.88	.34	.45	122.40	.53	.40	.11	.42	.58	.80	.64	.31
10	.89	.50	.48	.65	.21	.39	.17	.27	.58	.81	.65	.32
11	119.89	120.59	120.47	122.78	121.92	125.35	125.22	122.18	120.57	119.81	119.64	119.33
12	.89	.65	.49	.94	.73	.31	.23	.12	.56	.77	.68	.34
13	.89	.65	.44	123.18	.81	.27	.24	.05	.55	.65	.72	.36
14	.87	.56	.31	.60	.99	.23	.24	.01	.53	.53	.75	.35
15	.86	.36	.17	124.10	122.28	.19	.23	121.95	.48	.46	.77	.33
16	119.83	120.18	120.07	124.46	122.62	125.16	125.22	121.82	120.33	119.41	119.79	119.31
17	.75	.07	.04	.78	.88	.14	.20	.65	.20	.39	.80	.31
18	.62	.06	119.99	125.05	123.29	.12	.17	.46	.24	.37	.80	.31
19	.50	.07	120.01	.30	.78	.05	.15	.28	.27	.37	.80	.31
20	.42	.07	.06	.54	124.34	.01	.11	.15	.22	.44	.80	.31
21	119.38	120.08	120.18	125.74	124.81	124.95	125.07	121.03	120.07	119.53	119.76	119.31
22	.37	.11	.56	.82	125.11	.90	.04	120.95	119.87	.60	.68	.30
23	.41	.10	.62	.84	.28	.84	.01	.89	.72	.63	.58	.31
24	.53	.11	.89	.84	.48	.78	124.97	.84	.64	.66	.47	.32
25	.63	.13	121.08	.82	.57	.72	.92	.81	.59	.67	.37	.33
26	119.70	120.15	121.22	125.72	125.64	124.69	124.90	120.78	119.55	119.66	119.33	119.32
27	.76	.16	.20	.64	.72	.62	.85	.78	.52	.66	.28	.30
28	.77	.15	.17	.55	.72	.53	.80	.78	.50	.66	.24	.25
29	.79	.16	.15	.42	.71	.44	.73	.77	.54	.67	.20	.15
30	.89	.19	.12	.24	.69	.40	.63	.75	.56	.66	-	.02
31	-	.22	-	.01	.66	-	.50	-	.59	.59	-	118.96
Mean	119.72	120.17	120.49	123.78	123.94	125.11	124.94	121.93	120.19	119.63	119.56	119.27
Max.	119.89	120.65	121.22	125.84	125.72	125.62	125.24	124.34	120.73	119.81	119.80	119.36
Min.	119.37	119.88	119.99	120.89	121.73	124.40	124.40	120.75	119.50	119.37	119.20	118.96

WATER YEAR 1972 : Max. 125.84 m. Min. 118.96 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	70	74	101	169	629	818	562	553	139	56	48	32
2	63	74	107	162	583	806	572	516	131	59	45	32
3	58	74	110	153	541	792	585	477	124	62	43	33
4	62	76	111	154	496	781	607	435	123	64	41	34
5	66	76	109	153	457	770	624	400	125	65	42	36
6	69	80	107	158	421	762	640	370	126	66	43	37
7	72	87	109	183	385	759	657	343	126	67	49	38
8	73	95	113	248	347	759	674	320	126	67	55	39
9	74	107	116	302	316	756	688	304	126	68	57	39
10	74	120	118	330	281	753	701	288	126	69	58	39
11	74	127	118	345	251	743	712	278	126	69	57	40
12	74	132	119	364	232	733	715	271	125	66	60	40
13	74	132	115	393	240	723	717	264	124	58	63	41
14	73	125	105	447	258	715	717	260	122	51	65	41
15	72	109	94	517	289	706	715	254	118	47	66	40
16	70	95	87	572	326	699	712	241	106	43	67	39
17	65	87	85	626	357	695	708	224	96	42	68	39
18	56	86	81	676	407	690	701	205	99	41	68	39
19	49	87	83	730	471	676	697	188	102	41	68	39
20	44	87	86	795	553	668	688	177	98	45	68	39
21	42	88	95	856	631	657	680	166	87	51	66	39
22	41	90	109	884	688	647	674	159	73	55	60	38
23	43	89	130	892	726	636	668	153	63	56	54	39
24	51	90	153	892	778	626	660	149	57	59	47	39
25	57	91	170	884	804	615	651	146	54	59	41	40
26	62	93	183	849	824	610	647	143	52	59	40	39
27	66	93	181	824	849	598	638	143	50	59	37	38
28	66	93	178	798	849	583	629	143	45	59	35	36
29	67	93	177	762	845	568	617	142	51	59	33	31
30	74	95	174	717	839	562	600	141	53	59	–	26
31	–	98	–	668	830	–	578	–	54	61	–	24
Total	1,901	2,943	3,624	16,503	16,503	20,906	20434	7,850	3,027	1,782	1,544	1,145
Mean	63.4	94.9	121	532	532	697	659	262	97.6	57.5	53.2	36.9
Max.	74	132	183	892	849	818	717	553	139	69	68	41
Min.	41	74	81	153	232	562	562	141	45	41	33	24
Runoff – mcm.	164.246	254.275	313.114	1,425,859	1,425.859	1,806.278	1,765.498	678.499	261.533	153.965	133.402	98.928

WATER YEAR 1971 : Max. 892 Min. 24 Mean 268 Annual Runoff 8,481.456 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 22	18.00	125.85	896				

CHI RIVER BASIN

Chi River at Ban Ta Ngo, Chaiyaphum (E.5)

Location: Lat. 15°-46'-07" N., Long. 101°-49'-03" E., on left bank at Ban Ta Ngo about 20 kilometers upstream from E.5 station, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 4,254 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 186.07 m. (M.S.L.)

Bench Mark: B.M. - E. 5

Location: Infront of the camp of E. 5 station.
Elevation: + 197.543 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1969 to date.

Rating Operation:

Period of Rating: 1969-1973
Rated by Float: -
Rated by Current Meter: 1969-1973

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

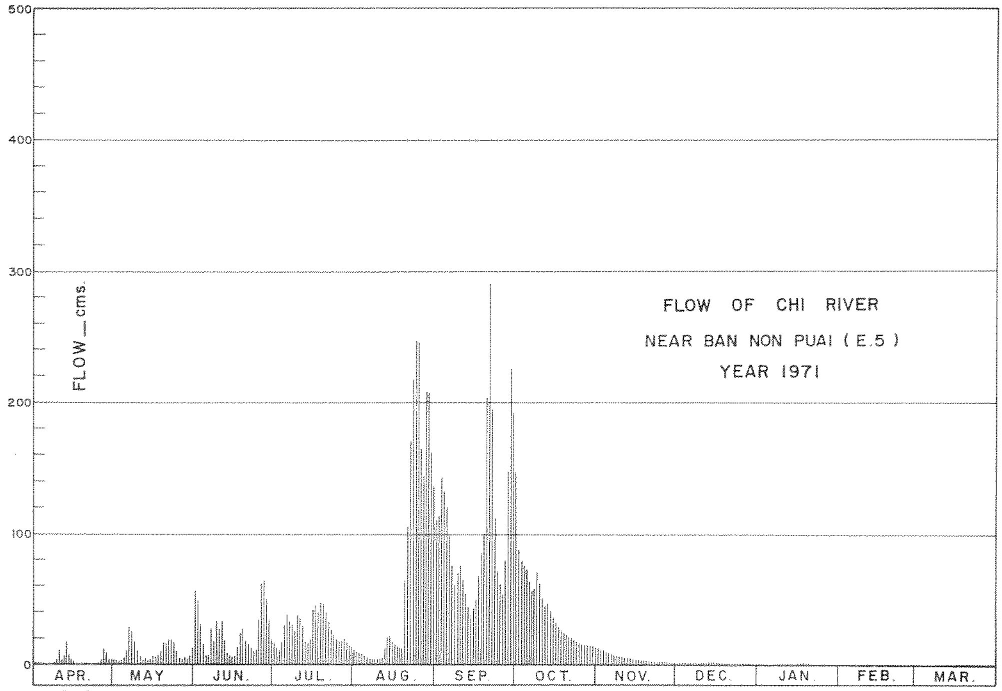
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	186.68	187.03	189.57	187.71	187.52	191.38	191.92	187.59	186.93	186.83	186.72	186.69
2	.68	.01	.00	.55	.40	.58	190.85	.53	.93	.82	.72	.68
3	.68	186.92	188.17	.39	.30	192.39	.45	.47	.92	.82	.71	.67
4	.67	187.00	187.52	.75	.24	.16	.32	.42	.90	.81	.71	.67
5	.67	.13	.26	188.53	.20	191.72	.27	.39	.89	.81	.71	.67
6	186.67	187.53	187.26	188.87	187.16	190.99	189.94	187.36	186.91	186.81	186.71	186.67
7	.67	188.36	188.30	.43	.12	.12	.55	.32	.89	.79	.71	.67
8	.67	.13	187.74	.51	.11	189.66	.55	.30	.88	.79	.71	.66
9	.81	187.78	188.67	.15	.11	190.17	190.16	.29	.87	.78	.71	.66
10	187.43	.42	.19	.73	.10	.42	189.57	.25	.86	.78	.70	.66
11	186.86	187.13	188.63	188.69	187.11	190.01	189.25	187.22	186.86	186.78	186.70	186.66
12	187.05	.00	187.79	.18	.15	189.35	.09	.20	.85	.77	.71	.66
13	.81	.11	.40	187.82	.82	188.96	.24	.16	.85	.77	.70	.66
14	.09	.06	.21	.68	188.08	188.76	.03	.14	.84	.77	.71	.65
15	186.92	.03	.12	.87	187.79	.96	188.75	.11	.84	.77	.70	.65
16	186.83	187.25	187.19	189.19	187.73	189.28	188.53	187.10	186.83	186.76	186.70	186.64
17	.77	.19	.70	.09	.67	.94	.39	.07	.83	.76	.70	.66
18	.76	.25	.75	188.78	.54	190.63	.26	.06	.82	.76	.69	.74
19	.76	.28	188.31	189.21	.55	191.19	.16	.05	.82	.76	.69	.71
20	.74	.78	.01	.20	188.98	193.79	.09	.03	.82	.76	.70	.70
21	186.73	187.76	187.66	188.96	192.13	195.41	188.02	187.02	186.82	186.75	186.69	186.69
22	.83	.89	.64	.61	193.52	194.73	187.97	.01	.81	.75	.69	.68
23	.81	.91	.48	.29	.92	191.52	.91	186.99	.81	.75	.69	.67
24	.79	.64	.41	.02	194.65	190.23	.82	.97	.82	.75	.69	.67
25	.80	.32	188.45	187.90	.61	189.73	.74	.96	.87	.75	.70	.66
26	186.92	187.13	189.78	187.84	192.99	189.44	187.70	186.96	186.83	186.75	186.69	186.67
27	187.55	.02	.94	.81	.40	190.46	.69	.95	.84	.73	.69	.65
28	.50	.14	.25	.95	193.88	193.02	.70	.95	.85	.73	.69	.63
29	.00	186.98	188.54	.92	.85	194.23	.72	.93	.86	.72	.69	.67
30	186.95	187.14	.00	.80	192.65	193.57	.67	.93	.84	.72	-	.70
31	-	.61	-	.66	191.75	-	.62	-	.83	.72	-	.69
Mean	186.90	187.35	188.10	188.26	189.55	191.13	188.87	187.16	186.85	186.77	186.70	186.67
Max.	187.81	187.91	189.94	189.21	194.65	195.41	191.92	187.59	186.93	186.83	186.72	186.74
Min.	186.67	186.92	187.12	187.39	187.10	188.76	187.62	186.93	186.81	186.72	186.69	186.63

WATER YEAR 1971 : Max. 195.41 m. Min. 186.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	4.45	57	16	12	108	127	14	3.30	2.30	1.20	0.90
2	0.80	4.15	42	13	10	115	90	13	3.30	2.20	1.20	0.80
3	0.80	3.20	25	9.85	8.50	144	79	11	3.20	2.20	1.10	0.70
4	0.70	4.00	12	17	7.60	135	75	10	3.00	2.10	1.10	0.70
5	0.70	5.95	7.90	33	7.00	120	74	9.85	2.90	2.10	1.10	0.70
6	0.70	13	7.90	39	6.40	95	66	9.40	3.10	2.10	1.10	0.70
7	0.70	29	28	31	5.80	70	56	8.80	2.90	1.90	1.10	0.70
8	0.70	25	17	32	5.65	59	56	8.50	2.80	1.90	1.10	0.60
9	2.10	18	35	25	5.65	72	71	8.35	2.70	1.80	1.10	0.60
10	11	10	26	37	5.50	78	57	7.75	2.60	1.80	1.00	0.60
11	2.60	5.95	35	36	5.65	68	49	7.30	2.60	1.80	1.00	0.60
12	4.75	4.00	18	26	6.25	51	45	7.00	2.50	1.70	1.10	0.60
13	18	5.65	10	18	18	41	48	6.40	2.50	1.70	1.00	0.60
14	5.35	4.90	7.15	16	24	37	43	6.10	2.40	1.70	1.10	0.50
15	3.20	4.45	5.80	19	18	41	37	5.65	2.40	1.70	1.00	0.50
16	2.30	7.75	6.85	47	17	49	33	5.50	2.30	1.60	1.00	0.40
17	1.70	6.85	16	45	15	66	30	5.05	2.30	1.60	1.00	0.60
18	1.60	7.75	17	38	13	84	27	4.90	2.20	1.60	0.90	1.40
19	1.60	8.20	28	48	13	101	25	4.75	2.20	1.60	0.90	1.10
20	1.40	18	22	47	42	204	24	4.45	2.20	1.60	1.00	1.00
21	1.30	17	15	41	134	290	22	4.30	2.20	1.50	0.90	0.90
22	2.30	20	15	34	191	253	21	4.15	2.10	1.50	0.90	0.80
23	2.10	20	12	28	211	113	20	3.90	2.10	1.50	0.90	0.70
24	1.90	15	10	22	248	73	18	3.70	2.20	1.50	0.90	0.70
25	2.00	8.80	31	20	246	61	17	3.60	2.20	1.50	1.00	0.60
26	3.20	5.95	62	19	168	53	16	3.60	2.30	1.50	0.90	0.70
27	13	4.30	66	18	144	79	16	3.50	2.40	1.30	0.90	0.50
28	12	6.10	49	21	209	169	16	3.50	2.50	1.30	0.90	0.30
29	4.00	3.80	33	20	207	226	16	3.30	2.60	1.20	0.90	0.70
30	3.60	6.10	22	18	154	194	15	3.30	2.40	1.20	–	1.00
31	–	14	–	15	121	–	14	–	2.30	1.20	–	0.90
Total	106.90	311.30	738.60	848.85	2,279	3,249	1,303	194.60	78.70	52.20	29.30	22.10
Mean	3.56	10.0	24.6	27.4	73.5	108	42.0	6.49	2.54	1.68	1.01	0.71
Max.	18	29	66	48	248	290	127	14	3.30	2.30	1.20	1.40
Min.	0.70	3.20	5.80	9.85	5.50	37	14	3.30	2.10	1.20	0.90	0.30
Runoff - mcm.	9.236	26.896	63.815	73.341	196.906	280.714	112.579	16.813	6.800	4.510	2.531	1.909

WATER YEAR 1971 : Max. 290 Min. 0.30 Mean 25.2 Annual Runoff 796.051 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.21,71	18.00	195.59	300				

CHI RIVER BASIN

Huai Pa Thao at Ban Hua Nong Bua, Chaiyaphum (E.6A)

Location: Lat. 15°-55'-28" N., Long. 102°-02'-18" E., on right bank about 2.5 kilometers east side of Chaiyaphum - Chum Phae road at kilometer marker 12+300, and about 1 kilometer upstream from E.6 station.

Drainage Area: 498 sq.km.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M.-H.S. E.6A

Location: Near automatic gage building.
Elevation: + 6.303 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967 to date.

Rating Operation:

Period of Rating: 1967-1971
Rated by Float: -
Rated by Current Meter: 1967-1971

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

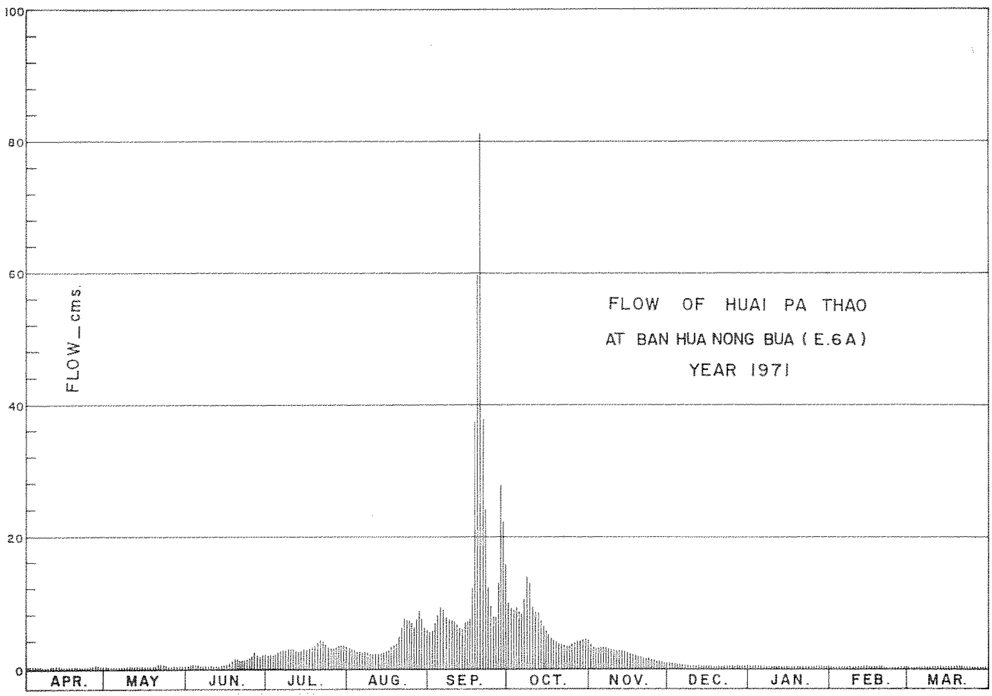
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Ban Na Fai weir about 500 meters upstream. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.08	2.20	2.62	3.75	4.04	4.38	4.74	4.11	3.16	2.67	2.45	2.28
2	.08	.15	.68	.71	3.98	.41	.70	.07	.13	.68	.45	.27
3	.08	.09	.71	.70	.92	.56	.70	.04	.09	.66	.45	.26
4	.03	.06	.70	.75	.87	.65	.71	.05	.02	.65	.43	.25
5	.02	.05	.66	.84	.85	.71	.66	.06	.00	.64	.41	.25
6	2.00	2.07	2.65	3.92	3.88	4.70	4.63	4.07	2.95	2.64	2.41	2.22
7	.01	.12	.64	.95	.88	.62	.80	.05	.92	.65	.40	.22
8	.15	.31	.65	.96	.85	.58	.97	.05	.90	.66	.41	.22
9	.16	.41	.64	.95	.82	.57	.91	.01	.89	.61	.41	.22
10	.14	.40	.66	.95	.80	.55	.73	3.97	.88	.59	.41	.22
11	2.09	2.35	2.62	3.94	3.78	4.54	4.66	3.95	2.86	2.60	2.39	2.21
12	.08	.31	.50	.90	.77	.47	.67	.95	.85	.59	.38	.20
13	.10	.32	.53	.89	.81	.42	.62	.93	.84	.59	.38	.21
14	.10	.28	.55	.90	.84	.52	.51	.90	.85	.58	.38	.21
15	2.09	.24	.74	.99	.86	.52	.40	.87	.81	.58	.35	.22
16	2.09	2.19	2.84	4.00	3.92	4.55	4.33	3.82	2.81	2.58	2.34	2.24
17	.17	.18	.97	.01	4.04	.86	.27	.77	.80	.56	.33	.31
18	.43	.20	3.30	.04	.10	5.37	.23	.72	.78	.55	.33	.29
19	.32	.31	.49	.11	.13	.76	.21	.68	.77	.53	.34	.27
20	.25	.55	.45	.20	.33	.90	.17	.64	.75	.52	.32	.26
21	2.25	2.73	3.40	4.22	4.46	5.77	4.15	3.59	2.74	2.55	2.33	2.26
22	.26	.71	.31	.21	.59	.42	.11	.60	.77	.55	.34	.24
23	.28	.66	.37	.17	.57	4.94	.10	.58	.79	.55	.36	.22
24	.33	.59	.51	.10	.56	.72	.11	.49	.79	.54	.36	.21
25	.43	.55	.62	.06	.50	.61	.15	.33	.78	.52	.37	.22
26	2.54	2.52	3.90	4.05	4.46	4.61	4.17	3.24	2.76	2.50	2.32	2.26
27	.45	.51	.79	.08	.59	.92	.23	.21	.75	.50	.32	.23
28	.38	.51	.69	.12	.66	5.33	.21	.21	.74	.50	.31	.21
29	.35	.50	.62	.13	.57	.20	.24	.20	.71	.48	.30	.19
30	.27	.52	.71	.12	.46	4.91	.25	.16	.70	.48		.17
31		.56		.09	.40		.20		.71	.47		.21
Mean	2.20	2.55	3.05	3.99	4.14	4.83	4.44	2.74	2.85	2.58	2.37	2.24
Max.	2.54	2.73	3.90	4.22	4.66	5.90	4.97	4.11	3.16	2.69	2.45	2.31
Min.	2.00	2.06	2.50	3.70	3.77	4.38	4.10	3.16	1.70	2.47	2.30	2.17

WATER YEAR 1971 : Max. 5.90 m. Min. 2.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.09	0.15	0.37	2.15	3.21	5.54	9.75	3.52	1.04	0.44	0.275	0.19
2	0.09	0.125	0.43	2.03	2.97	5.79	9.15	3.33	0.995	0.43	0.275	0.185
3	0.09	0.095	0.46	2.00	2.73	7.32	9.15	3.21	0.935	0.41	0.275	0.18
4	0.065	0.08	0.45	2.15	2.54	8.47	9.30	3.25	0.83	0.40	0.265	0.175
5	0.06	0.075	0.41	2.44	2.47	9.30	8.61	3.29	0.80	0.39	0.255	0.175
6	0.05	0.085	0.40	2.73	2.58	9.15	8.20	3.33	0.725	0.39	0.255	0.16
7	0.055	0.11	0.39	2.85	2.58	8.07	11	3.25	0.68	0.40	0.25	0.16
8	0.125	0.205	0.40	2.89	2.47	7.56	14	3.25	0.65	0.41	0.255	0.16
9	0.130	0.255	0.39	2.85	2.37	7.44	13	3.09	0.64	0.36	0.255	0.165
10	0.120	0.250	0.41	2.85	2.30	7.20	9.60	2.93	0.63	0.345	0.255	0.16
11	0.095	0.225	0.37	2.81	2.24	7.08	8.61	2.85	0.61	0.35	0.245	0.155
12	0.09	0.205	0.30	2.65	2.21	6.33	8.74	2.85	0.60	0.345	0.24	0.15
13	0.10	0.21	0.315	2.61	2.33	5.88	8.07	2.77	0.59	0.345	0.24	0.155
14	0.10	0.19	0.325	2.65	2.44	6.84	6.72	2.65	0.60	0.34	0.24	0.155
15	0.095	0.17	0.49	3.01	2.51	6.84	5.70	2.54	0.56	0.34	0.225	0.16
16	0.095	0.145	0.59	3.05	2.73	7.20	5.14	2.37	0.56	0.34	0.22	0.17
17	0.135	0.14	0.755	3.09	3.21	12	4.67	2.21	0.55	0.33	0.215	0.205
18	0.265	0.15	1.25	3.21	3.45	31	4.37	2.06	0.53	0.325	0.22	0.195
19	0.210	0.205	1.53	3.52	3.66	61	4.22	1.95	0.52	0.315	0.22	0.185
20	0.175	0.325	1.47	4.15	5.14	81	3.94	1.85	0.50	0.31	0.21	0.18
21	0.175	0.48	1.40	4.36	6.24	62	3.80	1.73	0.49	0.325	0.215	0.18
22	0.180	0.46	1.26	4.22	7.68	34	3.52	1.75	0.32	0.325	0.22	0.17
23	0.190	0.41	1.35	3.94	7.44	13	3.45	1.71	0.54	0.325	0.23	0.16
24	0.215	0.345	1.57	3.45	7.32	9.45	3.52	1.53	0.54	0.32	0.23	0.155
25	0.265	0.325	1.80	3.29	6.60	7.93	3.80	1.29	0.53	0.31	0.235	0.16
26	0.32	0.31	2.65	3.25	6.24	7.93	3.94	1.16	0.51	0.30	0.21	0.18
27	0.275	0.305	2.27	3.37	7.68	13	4.37	1.11	0.50	0.30	0.21	0.165
28	0.24	0.305	1.97	3.59	8.61	28	4.22	1.11	0.49	0.30	0.205	0.155
29	0.225	0.30	1.80	3.66	7.44	22	4.45	1.10	0.46	0.29	0.20	0.145
30	0.18	0.31	2.03	3.59	6.24	13	4.52	1.04	0.45	0.29	–	0.135
31	–	0.33	–	3.41	5.70	–	4.15	–	0.46	0.285	–	0.155
Total	4.50	7.27	29.60	95.80	134	511	206	69.5	18.86	10.70	6.84	5.18
Mean	0.15	0.23	0.99	3.09	4.32	17.0	6.64	2.32	0.61	0.34	0.23	0.17
Max.	0.32	0.48	2.65	4.30	8.61	81	14	3.52	1.04	0.44	0.275	0.205
Min.	0.05	0.08	0.30	2.00	2.21	5.54	3.45	1.04	0.45	2.85	0.20	0.135
Runoff - mcm.	0.389	0.628	2.557	8.277	11.578	44.15	17.798	6.005	1.624	0.924	0.591	0.447

WATER YEAR 1971 : Max. 81 Min. 0.05 Mean 3.01 Annual Runoff 94.967 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	15.00	5.91	83				

CHI RIVER BASIN

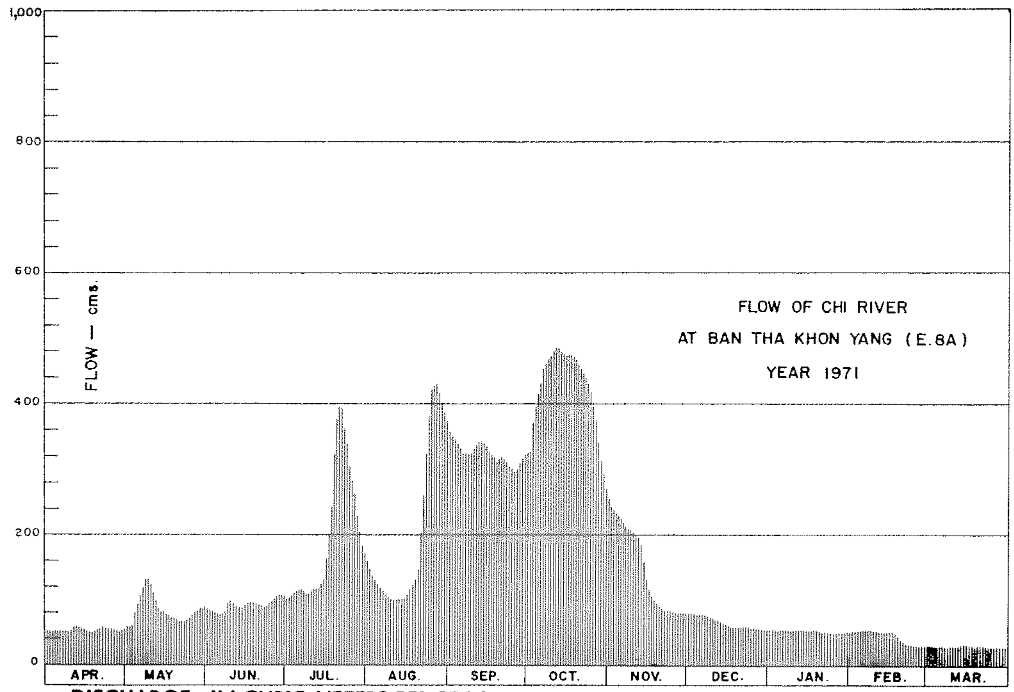
Chi River at Ban Tha Khon Yang, Maha Sarakham (E.8A)

Location:	Lat. 16°–13'–51" N., Long. 103°–16'–29" E., on right bank at Maha Sarakham – Kalasin highway bridge, Tambon Tha Khon Yang, Amphoe Muang, Maha Sarakham.
Drainage Area:	29,802 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 133.21 m. (M.S.L.)
Bench Mark:	B.M.–H.S. No. 6
Location:	On right abutment of the bridge.
Elevation:	+ 147.91 m. (M.S.L.)
Gage Reading Frequency:	5–time daily readings at 06.00, 09.00, 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:	1955–1956, 1965 to date.
Rated by Float:	–
Rated by Current Meter:	1955–1956, 1965 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage–discharge relationship used is defined by discharge measurements made during 1972. Flow regulated by Ubonrat Dam at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.94	135.06	135.66	135.98	136.86	140.03	139.45	138.43	135.52	135.02	134.98	134.42
2	.95	.06	.62	.97	.68	139.89	.52	.28	.50	.02	.97	.42
3	.94	.09	.54	136.03	.51	.76	140.16	.18	.49	.02	.97	.42
4	.93	.32	.50	.12	.38	.66	.35	.09	.48	.02	.97	.42
5	.93	.67	.48	.17	.27	.58	.68	.01	.47	.02	.98	.42
6	134.92	135.98	135.46	136.18	136.22	139.52	141.00	137.92	135.46	135.02	134.98	134.42
7	.92	136.26	.51	.16	.18	.44	.16	.77	.44	.02	135.00	135.41
8	.93	.41	.68	.08	.06	.44	.24	.72	.44	.01	134.99	134.41
9	.93	.45	.86	.07	135.97	.42	.32	.70	.42	134.97	.99	.42
10	.99	.44	.87	.12	.91	.50	.43	.68	.41	.97	.98	.42
11	135.09	136.24	135.81	136.21	135.90	139.60	141.54	137.60	135.40	134.97	134.98	134.42
12	.13	135.93	.74	.21	.91	.70	.56	.55	.37	135.00	.97	.43
13	.07	.66	.69	.20	.94	.74	.53	.36	.29	134.98	.97	.43
14	.02	.57	.69	.24	.94	.72	.47	.07	.22	.96	.97	.43
15	134.99	.58	.72	.38	.96	.62	.42	136.63	.17	.97	.97	.43
16	134.97	135.56	135.76	136.54	136.04	139.51	141.41	136.25	135.14	134.98	134.98	134.43
17	.96	.51	.82	137.04	.16	.47	.41	.01	.11	.97	.99	.42
18	.96	.43	.83	.94	.26	.36	.40	135.87	.09	.97	.93	.42
19	.96	.37	.80	139.15	.40	.29	.37	.78	.07	135.01	.74	.43
20	.96	.30	.79	140.11	.67	.33	.30	.72	.09	134.97	.62	.46
21	135.02	135.30	135.76	140.44	137.14	139.37	141.23	135.68	135.12	134.96	134.54	134.46
22	.06	.29	.70	.43	.85	.37	.13	.63	.11	.93	.51	.44
23	.07	.26	.64	.21	138.86	.39	.01	.61	.12	.91	.49	.42
24	.06	.30	.78	139.87	139.88	.17	140.84	.59	.12	.89	.46	.41
25	.03	.36	.88	.45	140.51	.04	.68	.58	.11	.90	.44	.41
26	135.01	135.40	135.93	138.99	140.82	139.02	140.44	135.08	135.08	134.92	134.42	134.41
27	.01	.49	.97	.54	.87	.09	.10	.54	.04	.93	.42	.41
28	134.99	.60	.98	.11	.79	.16	139.70	.55	.02	.95	.42	.41
29	.96	.62	136.04	137.75	.65	.34	.32	.55	.01	.96	.42	.41
30	.99	.69	.05	.41	.44	.42	138.94	.54	.02	.98	–	.41
31	–	.68	–	.11	.20	–	.65	–	.02	.98	–	.41
Mean	134.99	135.61	135.75	137.45	137.46	139.46	140.73	136.71	135.23	134.97	134.79	134.42
Max.	135.13	136.45	136.05	140.44	140.87	140.03	141.56	138.43	135.52	135.02	135.00	134.46
Min.	134.93	135.06	135.46	135.97	135.90	139.02	138.65	135.54	135.01	134.89	134.42	134.41

WATER YEAR 1971 : Max. 141.56 m. Min. 134.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	50	56	86	102	155	362	321	250	79	54	52	29
2	50	56	84	101	144	352	326	240	78	54	51	29
3	50	57	80	105	134	343	371	233	77	54	51	29
4	49	69	78	110	126	336	385	228	77	54	51	29
5	49	86	77	113	119	331	411	224	76	54	52	29
6	49	102	76	114	116	326	437	218	76	54	52	29
7	49	119	78	113	114	321	450	209	75	54	53	28
8	49	128	87	108	106	321	456	206	75	53	52	28
9	49	130	96	107	101	319	463	205	74	51	52	29
10	52	129	96	110	98	325	471	204	73	51	52	29
11	57	117	93	116	98	332	480	199	73	51	52	29
12	59	99	90	116	98	339	482	196	71	53	51	29
13	56	86	87	115	100	342	479	185	67	52	51	29
14	54	81	87	117	100	340	475	167	64	51	51	29
15	52	82	89	126	101	333	471	141	61	51	51	29
16	51	81	91	135	105	326	470	118	60	52	52	29
17	51	78	94	165	113	323	470	104	58	51	52	29
18	51	74	94	219	119	315	469	96	57	51	49	29
19	51	71	93	300	127	310	467	92	56	53	42	29
20	51	68	92	368	143	313	461	89	57	51	37	30
21	54	68	91	392	171	316	455	87	59	51	24	30
22	56	67	88	391	214	316	447	84	58	49	32	30
23	56	66	85	375	280	310	438	83	59	48	32	29
24	56	68	92	351	352	302	424	82	59	48	30	28
25	54	71	97	321	398	293	411	82	58	48	30	28
26	53	73	99	289	423	291	392	80	57	49	29	28
27	53	77	101	258	427	296	367	80	55	49	29	28
28	52	83	102	230	420	302	339	80	54	50	29	28
29	51	84	105	208	409	314	312	80	53	51	29	28
30	52	87	106	188	392	319	286	80	54	52	-	28
31	-	87	-	170	374	-	265	-	54	52	-	28
Total	1,566	2,600	2,714	6,033	6,177	966.8	12,951	4,422	2,004	1,596	1,280	892
Mean	52.2	83.9	90.5	195	199	322	418	147	64.6	51.5	44.1	28.8
Max.	59	130	106	392	427	362	482	250	79	54	53	30
Min.	49	56	76	101	98	291	265	80	53	48	29	28
Runoff - mcm.	135.302	224.640	234.490	521.251	533.693	835.315	1,118.966	382.061	173.146	137.894	110.592	77.060

WATER YEAR 1971 : Max. 482 Min. 28 Mean 142 Annual Runoff 4,484.419 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.12	01.00	141.56	482				

CHI RIVER BASIN

Chi River at Ban Tha Nang Luan, Khon Kaen (E. 9)

Location: Lat. 16°-05'-49" N., Long. 102°-34'-23" E., on left bank at the bridge on Mancha Khiri - Chonnabot highway about 6 kilometers from Amphoe Mancha Khiri at Ban Tha Nang Luan, Amphoe Chonnabot, Khon Kaen.

Drainage Area: 11,020 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 and 5 time daily readings at 06.00, 12.00, 18.00 hours on April - July, December - March, and 06.00, 09.00, 12.00, 15.00 and 18.00 hours on August - November respectively.

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

Period of Available Gage Records: 1958 to date.

Rating Operation:

Period of Rating: 1967-1973
Rated by Float: -
Rated by Current Meter: 1967-1973

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

Overbank Flow Conditions: No overbank flow.

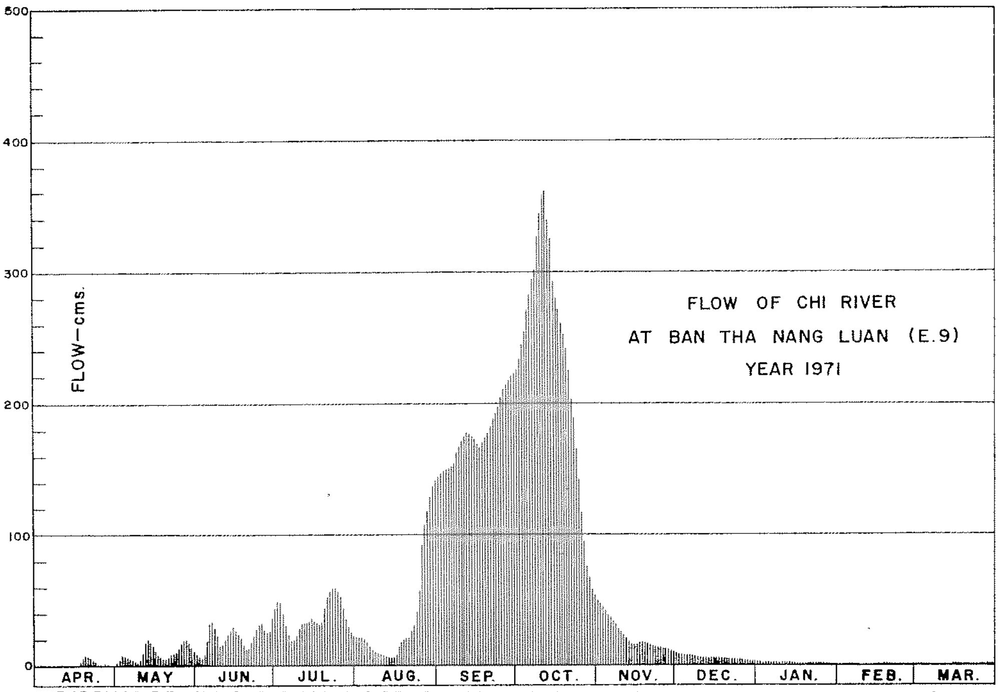
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.40	1.61	2.06	3.89	2.83	7.37	8.92	4.02	2.23	1.74	1.54	1.39
2	.42	.91	.00	4.05	.80	.41	.95	3.95	.20	.74	.54	.38
3	.41	2.17	1.92	3.93	.77	.46	9.01	.84	.16	.74	.52	.37
4	.39	.10	2.11	.63	.69	.51	.09	.74	.15	.75	.51	.37
5	.37	1.96	.84	.26	.56	.57	.16	.63	.10	.75	.51	.38
6	1.39	1.92	3.34	2.93	2.42	7.61	9.21	3.53	2.08	1.73	1.51	1.38
7	.38	.88	.40	.66	.31	.65	.22	.42	.06	.71	.54	.37
8	.39	.84	.17	.63	.23	.96	.24	.31	.05	.70	.53	.37
9	.40	.79	2.76	.91	.18	8.11	.28	.17	.03	.68	.52	.37
10	.40	.88	.42	3.22	.13	.19	.31	.01	.02	.65	.52	.37
11	1.40	2.35	2.51	3.36	2.09	8.27	9.32	2.89	1.99	1.65	1.51	1.37
12	.44	.73	.73	.37	.06	.30	.32	.75	.98	.65	.49	.38
13	.42	.77	.94	.35	.02	.28	.31	.64	.97	.63	.48	.39
14	.40	.64	3.10	.40	1.99	.22	.27	.59	.96	.61	.47	.38
15	.39	.42	.21	.50	.98	.15	.24	.57	.95	.59	.48	.37
16	1.63	2.25	3.12	3.44	2.00	8.08	9.20	2.60	1.95	1.58	1.46	1.36
17	.86	.04	2.93	.30	.24	.00	.17	.63	.94	.58	.46	.36
18	2.07	1.95	.78	.27	.59	.09	.13	.60	.92	.57	.47	.35
19	.11	.92	.55	.43	.79	.16	.07	.57	.91	.57	.44	.35
20	1.99	.92	.35	.85	.78	.28	.02	.53	.92	.57	.44	.35
21	1.86	2.06	2.36	4.20	2.82	8.39	8.91	2.52	1.93	1.57	1.43	1.37
22	.75	.14	.55	.38	3.06	.49	.79	.49	.90	.56	.43	.38
23	.65	.16	.78	.45	.27	.58	.50	.44	.86	.55	.43	.38
24	.57	.26	3.04	.43	.75	.68	7.87	.44	.83	.55	.43	.37
25	.52	.47	.33	.31	4.76	.75	.01	.43	.81	.55	.42	.37
26	1.50	2.65	3.34	4.09	5.65	8.79	6.08	2.42	1.80	1.54	1.42	1.38
27	.48	.76	.17	3.75	6.28	.83	5.38	.38	.80	.54	.42	.38
28	.59	.71	2.95	.40	.65	.86	4.92	2.34	.79	.54	.41	.37
29	.59	.55	3.03	.14	.94	.89	.58	.29	.78	.56	.40	.37
30	.59	.38	.49	2.97	7.16	.90	.32	.26	.76	.55	-	.37
31	-	.20	-	.87	.29	-	.17	-	.74	-	-	.37
Mean	1.56	2.21	2.81	3.53	3.39	8.19	8.19	2.87	1.95	1.62	1.47	1.37
Max.	2.11	2.77	3.49	4.45	7.29	8.90	9.32	4.02	2.23	1.75	1.54	1.39
Min.	1.37	1.61	1.92	2.63	1.98	7.37	4.17	2.26	1.74	1.54	1.40	1.35

WATER YEAR 1971 : Max. 9.32 m. Min. 1.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	1.10	7.40	46	22	144	224	49	9.95	2.60	0.40	0.00
2		5.15	6.50	50	21	145	228	47	9.50	2.60	0.40	
3		9.05	5.30	47	20	146	238	44	8.90	2.60	0.20	
4		8.00	8.15	39	19	148	252	42	8.75	2.75	0.10	
5		5.90	22	30	16	150	268	39	8.00	2.75	0.10	
6		5.30	32	24	13	151	283	37	7.70	2.45	0.10	
7		4.70	33	18	11	152	288	34	7.40	2.15	0.40	
8		4.10	28	18	9.95	163	299	31	7.25	2.00	0.30	
9		3.35	20	23	9.20	168	320	28	6.95	1.80	0.20	
10		4.70	13	29	8.45	172	345	25	6.80	1.50	0.20	
11		12	15	32	7.85	175	360	23	6.35	1.50	0.10	
12		20	20	33	7.40	176	360	20	6.20	1.50	0.00	
13		20	24	32	6.80	175	345	18	6.05	1.30		
14		18	27	33	6.35	173	314	17	5.90	1.10		
15	0.00	13	29	36	6.20	170	299	16	5.75	0.90		
16	1.30	10	27	34	6.50	167	278	17	5.75	0.80		
17	4.40	7.10	24	31	10	164	271	18	5.60	0.80		
18	7.55	5.75	21	30	17	168	261	17	5.30	0.70		
19	8.15	5.30	16	34	21	170	249	16	5.15	0.70		
20	6.35	5.30	12	45	21	175	240	16	5.30	0.70		
21	4.40	7.40	12	53	21	180	222	15	5.45	0.70		
22	2.75	8.60	16	58	26	185	208	15	5.00	0.60		
23	1.50	8.90	21	60	30	191	185	14	4.40	0.50		
24	0.70	10	26	59	42	198	160	14	3.95	0.50		
25	0.20	14	32	56	67	205	133	14	3.65	0.50		
26	0.00	18	32	51	92	208	105	13	3.50	0.40		
27	0.00	20	28	42	111	213	84	13	3.50	0.40		
28	0.90	19	24	33	122	216	71	12	3.35	0.40		
29	0.90	16	26	28	131	220	63	11	3.20	0.40	0.00	
30	0.90	13	36	24	137	221	56	10	2.90	0.60	-	
31	-	9.50	-	22	141	-	53	-	2.60	0.50	-	0.00
Total	40.00	312.20	643.35	1,150	1,179.70	5,289	7,062	685	180.05	38.70	2.50	0.00
Mean	1.33	10.1	21.4	37.1	38.0	176	228	22.8	5.81	1.25	0.086	0.00
Max.	8.15	20	36	60	141	221	360	49	9.95	2.75	0.40	0.00
Min.	0.00	1.10	5.30	18	6.20	144	53	10	2.60	0.40	0.00	0.00
Runoff - mcm.	3.456	26.974	55.585	99.360	101.926	456.970	610.157	59.184	15.556	3.344	0.216	0.00

WATER YEAR 1971 : Max. 360 Min. 0.00 Mean 45.3 Annual Runoff 1,432.728 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	6.00	9.32	360				

CHI RIVER BASIN

Chi River at Ban Tha Phra, Khon Kaen (E. 16A)

Location: Lat. 16°–21'–14" N., Long 102°–48'–09" E., On left bank about 400 meters upstream from the bridge on Khon Kaen–Maha Sarakham Highway, Tambon Don Han, Amphoe Muang, Khon Kaen.

Drainage Area: 13,171 sq.km.

Type of Gage: Water stage recorder.

Zero Gage at Bottom at: + 142.94 m (M.S.L.)

Bench Mark: B.M.–H.S.

Location: Near abutment of the bridge.
Elevation: + 154.989 m (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1963, 1965 to date.
Rated by Float: –
Rated by Current Meter: 1963, 1965 to date.

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

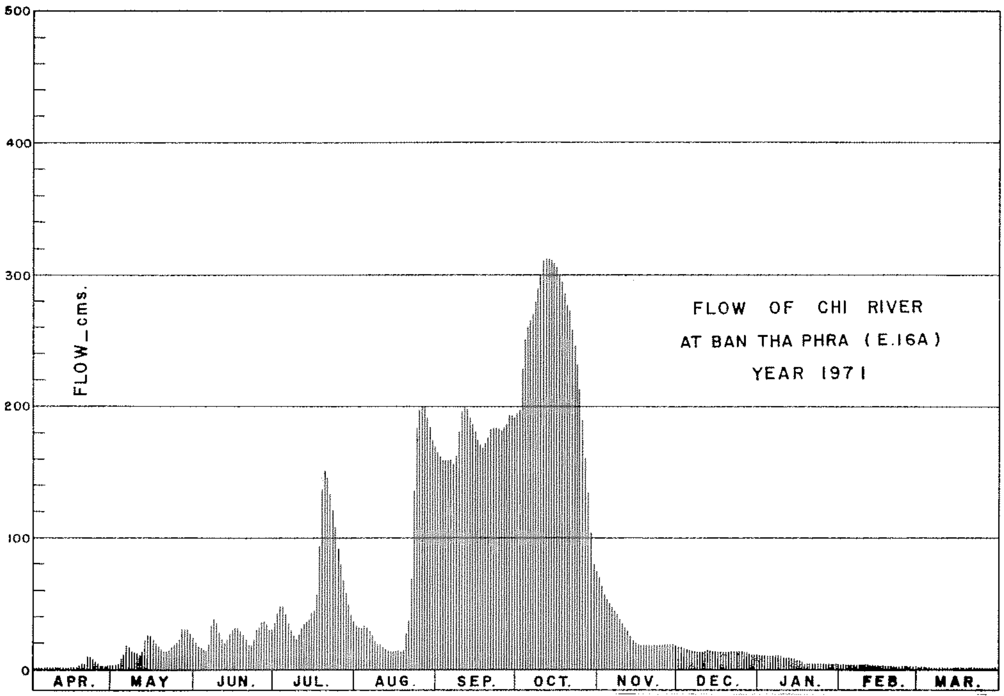
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.90	143.12	144.02	144.53	144.50	147.60	148.14	145.47	143.86	143.60	143.21	143.01
2	.90	.13	143.92	.75	.45	.52	.22	.28	.84	.58	.21	.01
3	.90	.14	.86	.89	.43	.47	.69	.17	.82	.56	.21	.01
4	.89	.41	.78	.90	.45	.47	149.14	.08	.80	.56	.21	142.99
5	.89	.62	.70	.78	.42	.47	.38	.00	.76	.57	.21	.99
6	142.89	143.90	143.97	144.60	144.35	147.47	149.46	144.87	143.74	143.56	143.21	142.99
7	.90	.88	144.50	.41	.19	.44	.54	.77	.74	.56	.19	.99
8	.92	.72	.65	.24	.08	.56	.73	.69	.73	.55	.20	.99
9	.92	.64	.56	.12	.00	.88	150.02	.62	.72	.53	.20	.99
10	.92	.59	.35	.19	.00	148.14	.18	.53	.72	.50	.21	.99
11	142.92	143.53	144.12	144.38	143.96	148.27	150.24	144.43	143.74	143.47	143.21	142.99
12	.93	.60	143.98	.53	.78	.24	.27	.35	.74	.46	.21	.99
13	.93	.99	144.08	.60	.75	.18	.26	.23	.74	.43	.20	.99
14	.93	144.21	.25	.64	.70	.06	.23	.08	.71	.41	.18	.99
15	.94	.23	.36	.75	.69	147.97	.19	143.99	.71	.40	.16	.99
16	142.93	144.12	144.42	144.22	143.71	147.80	150.14	143.94	143.72	143.37	143.14	142.99
17	.93	.01	.43	145.23	.73	.70	.06	.94	.72	.34	.14	.98
18	143.06	143.88	.33	146.10	.72	.65	149.95	.94	.71	.29	.12	.98
19	.22	.76	.24	147.00	.82	.71	.81	.94	.71	.27	.12	.98
20	.41	.69	.14	.31	144.31	.84	.64	.94	.70	.26	.10	.98
21	142.51	143.67	143.95	147.20	144.61	147.95	149.47	143.94	143.70	143.26	143.08	142.98
22	.49	.74	.85	146.93	145.26	.97	.28	.94	.71	.25	.07	.98
23	.42	.82	144.09	.62	146.97	.97	.08	.94	.71	.24	.07	.98
24	.32	.94	.36	.31	147.98	.95	148.81	.94	.70	.24	.06	.97
25	.22	.98	.40	.02	148.23	.94	.38	.93	.68	.23	.04	.97
26	143.15	144.12	144.54	145.76	148.29	147.97	147.93	143.93	143.66	143.23	143.03	142.97
27	.09	.40	.59	.51	.28	148.04	.30	.93	.64	.23	.03	.97
28	.04	.39	.52	.24	.16	.15	146.69	.94	.62	.23	.02	.97
29	.10	.37	.40	144.99	147.99	.15	.23	.91	.62	.23	.02	.97
30	.11	.31	.34	.77	.82	.13	145.90	.88	.61	.22	–	.97
31	–	.19	–	.59	.67	–	.67	–	.61	.22	–	.97
Mean	143.06	143.84	144.22	145.23	145.23	147.85	148.97	144.32	143.71	143.38	143.14	142.98
Max.	143.51	144.40	144.65	147.31	148.29	148.27	150.27	145.47	143.86	143.60	143.21	143.01
Min.	142.89	143.12	143.70	144.12	143.69	147.44	145.67	143.88	143.61	143.22	143.02	142.97

WATER YEAR 1971 : Max. 150.27 m. Min. 142.89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	3.20	21	35	34	165	195	69	17	12	4.20	2.10
2	1.00	3.30	18	43	33	161	197	62	17	12	4.20	2.10
3	1.00	3.40	17	48	32	159	222	57	16	11	4.20	2.10
4	0.90	8.20	16	48	33	159	248	53	16	11	4.20	1.90
5	0.90	12	14	44	32	159	262	51	15	11	4.20	1.90
6	0.90	18	20	37	30	159	266	47	15	11	4.20	1.90
7	1.00	18	34	32	25	157	270	43	15	11	3.90	1.90
8	1.20	14	39	27	22	163	281	41	15	11	4.00	1.90
9	1.20	13	36	23	20	179	298	38	14	11	4.00	1.90
10	1.20	12	30	25	20	195	307	35	14	10	4.20	1.90
11	1.20	11	23	31	19	199	311	32	15	9.40	4.20	1.90
12	1.30	12	20	35	16	198	313	30	15	9.20	4.20	1.90
13	1.30	20	22	37	15	194	312	26	15	8.60	4.00	1.90
14	1.30	26	27	39	14	188	310	22	14	8.20	3.80	1.90
15	1.40	26	30	43	14	184	308	20	14	8.00	3.60	1.90
16	1.30	23	32	45	14	175	305	19	14	7.40	3.40	1.90
17	1.30	21	32	60	15	170	300	19	14	6.80	3.40	1.80
18	2.60	18	29	96	14	168	294	19	14	5.80	3.20	1.80
19	4.40	15	27	137	16	171	286	19	14	5.40	3.20	1.80
20	2.20	14	24	151	29	177	276	19	14	5.20	3.00	1.80
21	10	13	19	146	38	183	266	19	14	5.20	2.80	1.80
22	10	14	17	134	61	184	256	19	14	5.00	2.70	1.80
23	8.40	16	23	120	135	184	245	19	14	4.80	2.70	1.80
24	6.40	19	30	106	184	183	229	19	14	4.80	2.60	1.70
25	4.40	20	31	93	197	182	204	19	14	4.60	2.40	1.70
26	3.50	23	36	81	200	184	182	19	13	4.60	2.30	1.70
27	2.90	31	37	71	200	187	150	19	13	4.60	2.30	1.70
28	2.40	31	35	60	193	193	123	19	12	4.60	2.20	1.70
29	3.00	31	31	51	185	193	102	19	12	4.60	2.20	1.70
30	3.10	28	30	43	176	192	87	18	12	4.60	–	1.70
31	–	25	–	37	169	–	77	–	12	4.60	–	1.70
Total	88.7	542	800	1,972	2,185	5,345	7,482	910	441	237	98.8	57.2
Mean	2.96	17.5	26.7	63.8	70.5	178	241	30.3	14.2	7.64	3.37	84
Max.	10	31	39	151	200	199	313	69	17	12	4.20	2.10
Min.	0.90	3.20	14	23	14	157	77	18	12	4.60	2.20	1.70
Runoff - mcm.	7.663	46.829	69.120	170.899	188.785	461.808	644.444	78.624	38.102	20.477	8.546	4.942

WATER YEAR 1971 : Max. 313 Min. 0.90 Mean 55.2 Annual Runoff 1,742.256 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	08.00	150.27	313				

CHI RIVER BASIN

Ham Phong at highway bridge, Khon Kaen (E. 17)

Location: Lat. 16°-26'-20" N., Long. 102°-56'-52" E., on left bank about 20 meters downstream from the bridge on Khon Kaen – Yang Talat road, opposite bank of Wat Tha Hin, Amphoe Muang, Khon Kaen.

Drainage Area: 14,426 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S. No. 2

Location: On right bank infront of Wat Tha Hin.
Elevation: + 10.99 m. (A.D.)

Gage Reading Frequency: 3–5 time daily readings at 06.00, 12.00 and 18.00 hours in dry season, 06.00, 09.00, 12.00, 15.00 and 18.00 hours in rainy season respectively.

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

Period of Available Gage Records: 1954 to date

Rating Operation:

Period of Rating: 1965–1973
Rated by Float: –
Rated by Current Meter: 1965–1973

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

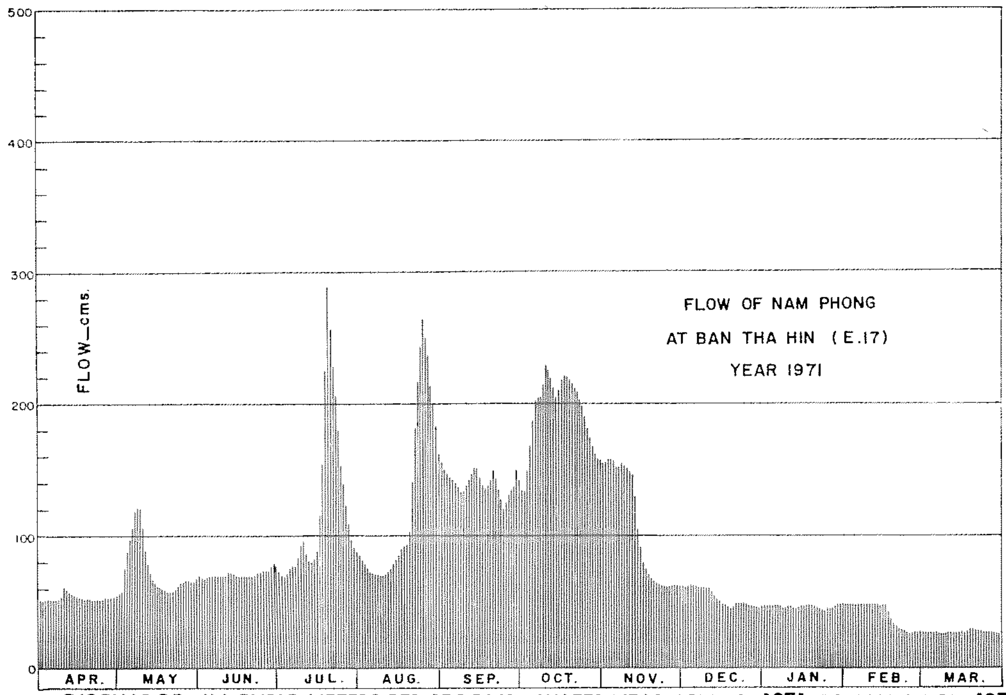
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Ubonrat Dam at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.97	3.07	3.44	3.50	3.81	5.47	5.02	5.51	3.28	2.84	2.87	2.10
2	.92	.14	.41	.44	.74	.36	.02	.54	.27	.84	.88	.09
3	.94	.58	.43	.43	.65	.30	.36	.55	.27	.85	.87	.10
4	.95	.97	.44	.51	.55	.26	.95	.58	.27	.84	.88	.10
5	.95	4.18	.44	.60	.49	.23	6.33	.52	.27	.85	.88	.09
6	2.93	4.54	3.44	3.64	3.52	5.15	6.53	5.41	3.25	2.85	2.89	2.08
7	.94	.69	.44	.66	.48	.01	.56	.43	.25	.83	.89	.08
8	.95	.74	.44	.80	.47	.01	.56	.51	.24	.78	.89	.09
9	3.03	.74	.44	4.11	.47	.06	.84	.49	.25	.80	.88	.10
10	.21	.41	.46	.13	.48	.17	7.04	.41	.25	.84	.88	.10
11	3.18	3.92	3.52	3.93	3.51	5.32	6.93	5.40	3.24	2.85	2.87	2.10
12	.10	.63	.53	.78	.59	.41	.76	.31	.07	.82	.87	.09
13	.04	.44	.51	.71	.67	.43	.60	4.69	.00	.80	.88	.10
14	.02	.33	.46	.74	.75	.35	.53	.16	2.96	.84	.89	.10
15	.01	.27	.43	.91	.88	.25	.71	3.89	.92	.85	.90	.11
16	3.00	3.23	3.43	4.25	4.01	5.10	6.87	3.66	2.88	2.83	2.91	2.11
17	2.99	.20	.43	5.08	.06	.04	.91	.52	.85	.83	.85	.10
18	.99	.20	.42	6.72	.08	.16	.89	.43	.85	.84	.55	.14
19	.99	.17	.44	8.14	.28	.30	.93	.38	.80	.84	.38	.24
20	.98	.12	.45	7.90	.70	.37	.77	.33	.85	.83	.28	.20
21	2.97	3.14	3.46	7.33	5.44	5.26	6.70	3.30	2.91	2.79	2.21	2.15
22	.96	.17	.49	6.73	6.56	.07	.60	.29	.91	.78	.19	.14
23	.98	.25	.53	.18	7.38	4.84	.50	.26	.92	.75	.16	.12
24	.96	.30	.54	5.66	.71	.68	.37	.26	.90	.76	.12	.10
25	.98	.33	.55	.15	.60	.85	.21	.24	.88	.77	.09	.08
26	3.00	3.37	3.54	4.74	7.29	5.03	6.01	3.24	2.84	2.80	2.09	2.08
27	2.98	.37	.56	.43	6.88	.06	5.87	.27	.82	.82	.11	.08
28	.96	.29	.67	.20	.48	.26	.72	.28	.81	.85	.11	.08
29	.99	.23	.72	.05	.12	.37	.61	.28	.82	.88	.10	.09
30	3.12	.39	.60	3.95	5.82	.15	.54	.28	.83	.88	–	.09
31	–	.44	–	.89	.56	–	.52	–	.83	.87	–	.09
Mean	3.02	3.57	3.49	4.65	4.77	5.18	6.31	4.28	3.02	2.82	2.60	2.11
Max.	3.21	4.74	3.72	8.14	7.71	5.47	7.04	5.58	3.28	2.88	2.91	2.24
Min.	2.92	3.07	3.41	3.43	3.47	4.68	5.02	3.24	2.81	2.76	2.09	2.08

WATER YEAR 1971 : Max. 8.14 m. Min. 2.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	52	56	70	72	84	155	134	156	63	48	49	28
2	50	58	68	70	82	149	134	158	63	48	49	27
3	51	75	69	69	78	147	149	158	63	48	49	28
4	51	91	70	72	74	145	177	160	63	48	49	28
5	51	99	70	76	72	144	195	157	63	48	49	28
6	51	114	70	78	72	140	204	152	62	48	49	27
7	51	120	70	78	71	134	206	153	62	47	49	27
8	51	122	70	84	71	134	206	156	62	46	49	27
9	54	122	70	96	71	136	220	155	62	46	49	28
10	61	108	70	97	71	141	230	152	62	48	49	28
11	60	89	73	89	72	148	224	151	62	48	49	28
12	57	77	73	83	76	152	216	147	56	47	49	27
13	55	70	72	80	79	153	208	120	53	46	49	28
14	54	65	70	82	82	149	204	98	52	48	49	28
15	53	63	69	88	87	145	213	88	50	48	50	28
16	53	67	69	102	92	138	221	78	49	47	50	28
17	53	60	69	137	94	135	223	73	48	47	48	28
18	53	60	69	214	95	141	222	69	48	48	39	28
19	53	59	70	288	103	147	219	67	46	48	35	31
20	52	57	70	275	121	150	216	65	48	47	32	30
21	52	58	70	245	153	145	213	64	50	46	30	29
22	52	59	72	214	206	137	208	64	50	46	30	28
23	52	62	73	188	247	126	203	63	50	45	29	28
24	52	64	74	163	265	120	197	63	50	45	28	28
25	52	65	74	140	259	127	189	62	49	46	27	27
26	53	67	74	122	243	135	179	62	48	46	27	27
27	52	67	74	109	292	136	173	63	47	47	28	27
28	52	64	79	100	202	145	166	63	47	48	28	27
29	53	65	81	94	185	150	161	63	47	49	28	27
30	57	68	76	90	171	140	158	63	47	49	–	27
31	–	70	–	88	159	–	157	–	47	49	–	27
Total	1.593	2.336	2,148	3,783	3,959	4,244	6,025	3,143	1,669	1,465	1,195	862
Mean	53.1	75.3	71.6	122	128	141	194	105	53.8	47.2	41.2	27.8
Max.	61	122	81	288	265	155	230	160	63	49	50	31
Min.	50	56	68	69	71	120	134	62	47	45	27	27
Runoff - mcm.	137.635	201.830	185.587	326.851	342.057	366.682	520.560	271.555	144.20	126.576	103.248	74.477

WATER YEAR 1971 : Max. 288 Min. 27 Mean 88.8 Annual Runoff 2,801.261 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.19	12.00	8.20	292				

CHI RIVER BASIN

Chi River at Maha Chana Chai, Ubon Ratchathani (E. 20)

Location: Lat. 15°-31'-49" N., Long. 104°-15'-07" E., on right bank infront of Amphoe Maha Chana Chai office, Amphoe Maha Chana Chai, Ubon Ratchathani.

Drainage Area: 47,818 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 112.00 m. (M.S.L.)

Bench Mark: B.M. of ThaiArmy Survey Department

Location: Infront of Amphoe Maha Chana Chai office.
Elevation: + 131.297 m. (M.S.L.)

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

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

Period of Available Gage Records: 1955-1961, 1968 to date.

Rating Operation:

Period of Rating: 1972 to date
Rated by Float: -
Rated by Current Meter: 1972 to date

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1972-73. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

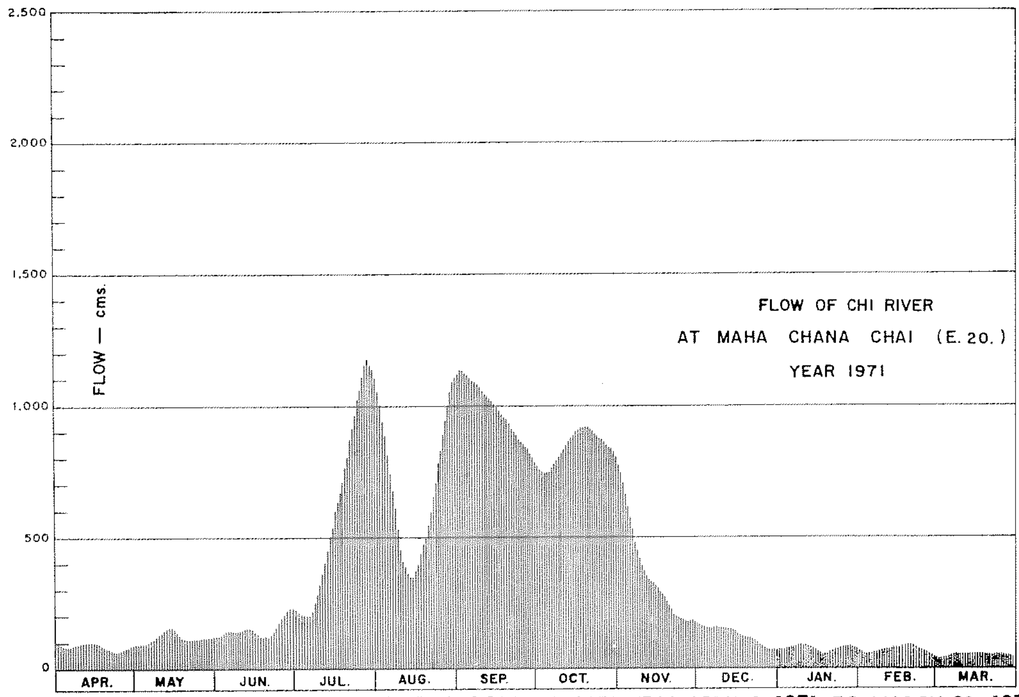
Remarks: No records on December 23-28, 1971.

* Estimated flow by plotted in Discharge Hydrograph.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	115.96	115.95	116.27	117.26	121.58	121.75	120.69	120.77	116.83	115.64	115.63	115.23
2	.93	.95	.36	.19	.44	.76	.65	.66	.79	.67	.55	.20
3	.82	.95	.40	.10	.25	.73	.63	.51	.72	.70	.48	.19
4	.74	.95	.45	.08	.09	.70	.63	.33	.64	.74	.45	.20
5	.76	.98	.47	.06	120.86	.67	.65	.14	.62	.77	.42	.22
6	115.81	116.00	116.45	117.05	120.60	121.64	120.69	119.79	116.62	115.79	115.41	115.26
7	.86	.03	.42	.15	.30	.63	.72	.42	.65	.80	.43	.20
8	.91	.11	.48	.42	119.90	.60	.79	.22	.65	.81	.55	.34
9	.96	.20	.52	.97	.45	.59	.86	118.94	.65	.85	.63	.33
10	.97	.35	.55	118.37	.02	.56	.93	.69	.65	.85	.66	.34
11	115.97	116.48	116.56	118.64	118.82	121.53	120.99	118.45	116.64	115.85	115.67	115.34
12	.96	.58	.56	.82	.54	.50	121.02	.36	.62	.87	.69	.35
13	.97	.66	.56	119.08	.33	.48	.07	.26	.61	.81	.72	.37
14	.97	.72	.51	.37	.31	.45	.12	.16	.59	.71	.75	.38
15	.97	.62	.45	.68	.40	.41	.15	.09	.54	.59	.78	.38
16	115.95	116.43	116.30	119.92	118.58	121.38	121.17	118.01	116.48	115.53	115.79	115.38
17	.93	.25	.23	120.22	.82	.34	.19	117.96	.39	.47	.81	.38
18	.89	.13	.19	.46	119.01	.33	.21	.77	.26	.45	.84	.37
19	.72	.08	.23	.68	.26	.30	.21	.61	.27	.43	.85	.37
20	.58	.07	.19	.85	.61	.27	.21	.46	.30	.43	.84	.37
21	115.51	116.15	116.24	120.99	119.94	121.22	121.20	117.26	116.27	115.49	115.82	115.37
22	.47	.14	.37	121.12	120.26	.16	.16	.13	.13	.57	.79	.37
23	.45	.15	.56	.32	.53	.11	.13	.05		.65	.72	.37
24	.46	.13	.80	.50	.76	.05	.10	116.99		.68	.63	.37
25	.59	.14	117.02	.63	.94	.01	.09	.93		.70	.52	.40
26	115.67	116.18	117.21	121.68	121.09	121.00	121.07	116.88		115.70	115.43	115.39
27	.77	.22	.32	.81	.31	120.99	.04	.84		.71	.35	.35
28	.84	.21	.38	.85	.49	.91	120.99	.83		.72	.29	.35
29	.84	.21	.30	.82	.58	.84	.95	.84	115.58	.71	.26	.32
30	.88	.21	.30	.76	.66	.76	.92	.85	.59	.72		.21
31		.21		.68	.70		.88		.62	.71		.10
Mean	115.80	116.20	116.58	119.62	120.14	121.35	120.97	118.27		115.68	115.61	115.31
Max.	115.97	116.72	117.38	121.85	121.70	121.76	121.21	120.77	116.83	115.87	115.85	115.40
Min.	115.45	115.95	116.27	171.05	118.31	120.76	120.63	116.83	115.58	115.43	115.26	115.10

WATER YEAR 1971 : Max. 121.85 m. Min. 115.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	101	100	126	222	1,058	1,129	753	776	179	77	76	49
2	98	100	134	215	1,002	1,133	743	746	175	79	70	47
3	90	100	138	206	930	1,121	738	708	168	81	66	46
4	84	100	142	204	875	1,108	738	669	160	84	63	47
5	85	102	144	202	802	1,095	743	628	158	86	61	48
6	89	104	142	201	730	1,083	753	562	158	87	61	51
7	93	106	140	211	662	1,079	762	499	158	88	62	53
8	97	113	145	239	581	1,066	781	469	161	89	70	56
9	101	120	149	302	504	1,062	802	430	161	92	76	55
10	102	133	151	351	441	1,050	824	395	161	92	78	56
11	102	145	152	388	413	1,038	842	361	160	92	79	56
12	101	154	152	413	374	1,026	852	350	158	94	80	56
13	102	162	152	449	346	1,018	868	337	157	89	82	58
14	102	168	148	491	343	1,006	885	325	155	82	84	59
15	102	158	142	544	355	990	895	317	151	73	87	59
16	100	141	129	585	379	978	902	307	145	69	87	59
17	98	124	123	644	413	963	909	301	137	65	89	59
18	95	114	119	697	439	969	916	278	125	63	91	58
19	82	110	123	751	474	948	916	260	126	62	92	58
20	73	110	119	799	532	937	916	244	129	62	91	58
21	68	116	124	843	589	919	912	222	126	66	90	58
22	65	115	135	885	653	898	898	209	114	72	87	58
23	63	116	152	956	713	881	888	201	* 100	77	82	58
24	64	114	176	1,026	773	862	878	195	* 92	80	76	58
25	73	115	198	1,079	827	849	875	189	* 84	81	68	60
26	79	118	217	1,100	875	846	868	184	* 80	81	62	59
27	86	122	228	1,155	952	843	859	180	* 78	82	56	56
28	91	121	235	1,174	1,022	817	843	179	* 75	82	52	56
29	91	121	226	1,159	1,058	796	830	180	73	82	51	54
30	94	121	226	1,133	1,091	773	820	181	73	82	–	48
31	–	121	–	1,100	1,108	–	808	–	75	82	–	41
Total	2,671	3,764	4,687	19,724	21,314	29,273	26,017	10,882	4,055	2,473	2,169	1,694
Mean	89.03	121.41	155.56	636.25	687.54	975.76	839.25	362.73	131	79.77	74.79	54.64
Max.	102	168	235	1,174	1,108	1,133	916	776	179	94	92	60
Min.	63	100	126	201	343	773	738	179	73	62	51	41
Runoff - mcm.	230.774	325.210	404.956	1,704.154	1,841.530	2,529.187	2,247.869	940.205	350.352	213.667	187.402	146.362

WATER YEAR 1971 : Max. 1,174 Min. 41 Mean 352 Annual Runoff 11,127.667 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.28	24.00	121.85	1,174				

CHI RIVER BASIN

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

Location: Lat. 15^{0}-45'-07" N., Long. 102^{0}-15'-24" E., on left bank about 75 meters upstream from the bridge at Ban Kaeng Ko, Amphoe Muang, Chaiyaphum.

Drainage Area: 8,912 sq.km.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. – H.S.E. 21

Location: Infront of the ladder of automatic gage building.
Elevation: + 9.433 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1955–1957, 1967 to date.

Rating Operation:

Period of Rating: 1968 to date
Rated by Float: –
Rated by Current Meter: 1968 to date

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

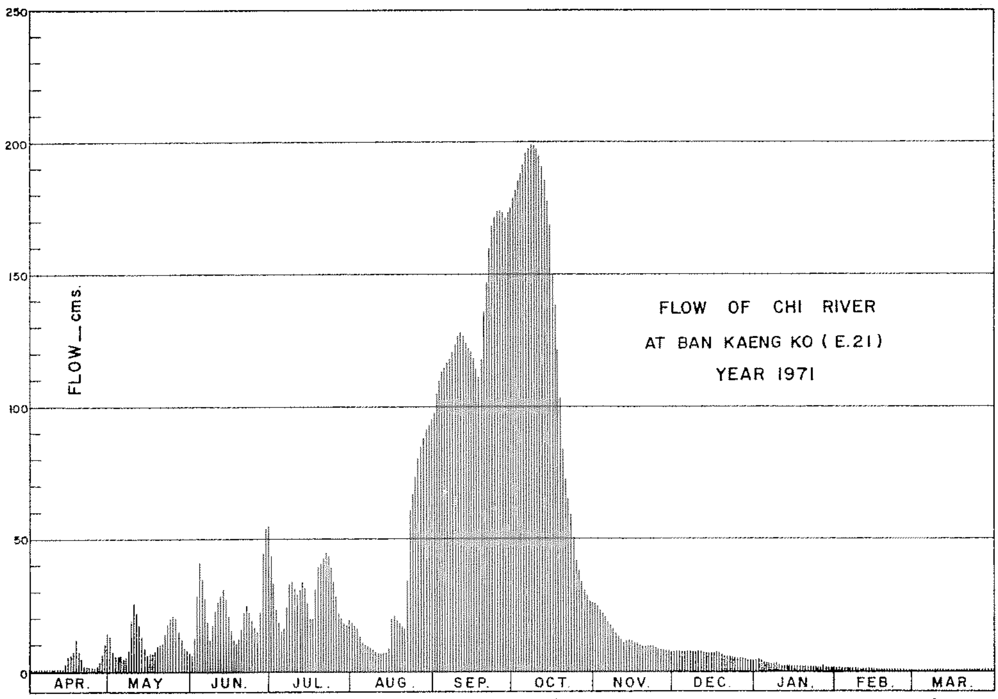
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.28	1.67	1.49	2.33	1.81	4.84	7.01	1.96	1.55	1.45	1.31	1.26
2	.28	.54	.64	.09	.77	.99	.12	.94	.55	.45	.32	.26
3	.27	.48	2.07	1.90	.72	5.20	.21	.91	.54	.45	.33	.26
4	.27	.48	.26	.79	.67	.28	.30	.89	.54	.43	.32	.26
5	.26	.49	.16	.72	.62	.34	.38	.86	.54	.43	.32	.26
6	1.26	1.46	1.95	1.74	1.60	5.37	7.44	1.82	1.54	1.42	1.32	1.26
7	.26	.46	.75	.93	.59	.42	.50	.77	.55	.40	.31	.27
8	.26	.57	.65	2.10	.57	.49	.52	.74	.55	.41	.31	.27
9	.26	.84	.79	.12	.55	.57	.52	.71	.54	.41	.30	.27
10	.25	.96	.89	.09	.53	.65	.47	.67	.55	.38	.30	.27
11	1.26	1.90	1.99	2.03	1.53	5.68	7.39	1.64	1.55	1.37	1.31	1.27
12	.26	.81	2.03	.07	.53	.67	.27	.62	.54	.37	.31	.27
13	.26	.68	.07	.12	.53	.61	.13	.64	.54	.37	.32	.26
14	.27	.57	.00	.06	.54	.53	6.96	.65	.54	.37	.31	.26
15	.48	.51	1.83	1.94	.66	.48	.73	.64	.54	.37	.30	.26
16	1.50	1.51	1.69	1.85	1.84	5.40	6.42	1.63	1.53	1.37	1.30	1.26
17	.53	.51	.62	.85	.86	.28	5.98	.62	.54	.37	.30	.26
18	.66	.52	.61	2.09	.83	.20	.41	.61	.54	.37	.29	.26
19	.57	.59	.69	.25	.81	.43	4.80	.61	.51	.36	.29	.26
20	.46	.61	.80	.26	.78	.94	.20	.59	.50	.35	.29	.26
21	1.36	1.62	1.91	2.31	1.76	6.28	3.59	1.59	1.50	1.35	1.28	1.26
22	.35	.70	.94	.35	2.10	.52	.08	.61	.50	.35	.28	.25
23	.33	.81	.88	.33	.72	.72	2.68	.61	.50	.35	.28	.26
24	.32	.84	.82	.22	3.34	.84	.44	.59	.49	.35	.28	.27
25	.32	.86	.76	.08	.90	.89	.30	.57	.48	.34	.28	.29
26	1.34	1.84	1.72	1.96	4.12	6.90	2.19	1.57	1.47	1.34	1.27	1.29
27	.43	.75	.87	.88	.29	.88	.12	.56	.47	.36	.27	.28
28	.52	.64	2.24	.83	.43	.83	.06	.56	.46	.34	.26	.28
29	.62	.56	.50	.80	.56	.87	.02	.55	.46	.33	.26	.28
30	.71	.55	.52	.81	.66	.95	1.99	.55	.46	.33		.29
31		.53		.82	.75		.97		.46	.33		.29
Mean	1.37	1.64	1.86	2.02	2.39	5.53	5.23	1.68	1.52	1.38	1.30	1.27
Max.	1.71	1.96	2.52	2.35	4.75	6.95	7.52	1.96	1.55	1.45	1.33	1.29
Min.	1.25	1.46	1.49	1.72	1.53	4.84	1.97	1.55	1.46	1.33	1.26	1.25

WATER YEAR 1971 : Max. 7.52 m. Min. 1.25 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	13	5.70	44	18	99	178	26	8.00	4.50	1.20	0.60
2	0.80	7.60	12	32	17	104	183	25	8.00	4.50	1.40	0.60
3	0.70	5.40	31	23	17	111	186	23	7.60	4.50	1.60	0.60
4	0.70	5.40	41	18	13	114	190	22	7.60	3.90	1.40	0.60
5	0.60	5.70	36	15	11	116	193	21	7.60	3.90	1.40	0.60
6	0.60	4.80	25	16	10	117	196	19	7.60	3.60	1.40	0.60
7	0.60	4.80	16	24	9.60	119	198	17	8.00	3.00	1.20	0.70
8	0.60	8.80	12	33	8.80	121	199	16	8.00	3.30	1.20	0.70
9	0.60	20	18	34	8.00	124	199	14	7.60	3.30	1.00	0.70
10	0.50	26	22	32	7.20	127	197	13	8.00	2.60	1.00	0.70
11	0.60	23	27	29	7.20	128	194	12	8.00	2.40	1.20	0.70
12	0.60	18	29	31	7.20	127	189	11	7.60	2.40	1.20	0.70
13	0.60	13	31	34	7.20	125	183	12	7.60	2.40	1.40	0.60
14	0.60	8.80	28	31	7.60	122	176	12	7.60	2.40	1.20	0.60
15	5.40	6.40	19	25	12	121	167	12	7.60	2.40	1.00	0.60
16	6.00	6.40	14	20	20	118	155	11	7.20	2.40	1.00	0.60
17	7.20	6.40	11	20	21	114	138	11	7.60	2.40	1.00	0.60
18	12	6.80	10	32	19	111	118	10	7.60	2.40	0.90	0.60
19	8.80	9.60	14	40	18	119	98	10	6.40	2.40	0.90	0.60
20	4.80	10	18	41	17	137	83	9.60	6.00	2.00	0.90	0.60
21	2.20	11	23	43	16	149	71	9.60	6.00	2.00	0.80	0.60
22	2.00	14	25	45	33	159	64	10	6.00	2.00	0.80	0.50
23	1.60	18	22	44	61	167	60	10	6.00	2.00	0.80	0.60
24	1.40	20	19	39	67	172	50	9.60	5.70	2.00	0.80	0.70
25	1.40	21	16	32	77	174	43	8.80	5.40	1.80	0.80	0.90
26	1.80	20	15	26	81	174	37	8.80	5.10	1.80	0.70	0.90
27	3.90	16	21	22	85	173	34	8.40	5.10	2.20	0.70	0.80
28	6.80	12	40	19	88	171	31	8.40	4.80	1.80	0.60	0.80
29	11	8.40	54	18	91	173	29	8.00	4.80	1.60	0.60	0.80
30	14	8.00	55	18	94	176	27	8.00	4.80	1.60	–	0.90
31	–	7.20	–	19	96	–	26	–	4.80	1.60	–	0.90
Total	99.20	365.50	709.70	899	1,044.80	4,062	3,892	396.20	209.70	81.10	30.10	21.00
Mean	3.31	11.8	23.6	29.0	33.7	135	125	13.2	6.76	2.62	1.04	0.68
Max.	14	26	55	45	96	176	199	26	8.00	4.50	1.60	0.90
Min.	0.50	4.80	5.70	15	7.20	99	26	8.00	4.80	1.60	0.60	0.50
Runoff - mcm.	8.571	31.579	61.318	77.674	90.271	350.957	336.269	34.232	18.118	7.007	2.600	1.814

WATER YEAR 1971 : Max. 199 Min. 0.50 Mean 32.3 Annual Runoff 1,020.410 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.8	24.00	7.53	199				

Nam Phong at Nam Phong Weir, Khon Kaen (E. 22A)

Location: Lat. 16°-43'-29" N., Long. 102°-48'-21" E., on left bank about 500 meters downstream from Khon Kaen - Udon highway bridge, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,183 sq.km.

Type of Gage: Water-stage recorder began November 1971

Zero Gage at Bottom at: + 150.92 m. (M.S.L.)

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

Location: Near the ladder of automatic gage building.
Elevation: + 161.766 m. (M.S.L.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April - October 1971. Recording on November - March.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 24 hourly readings.

Period of Available Gage Records: 1965 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

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

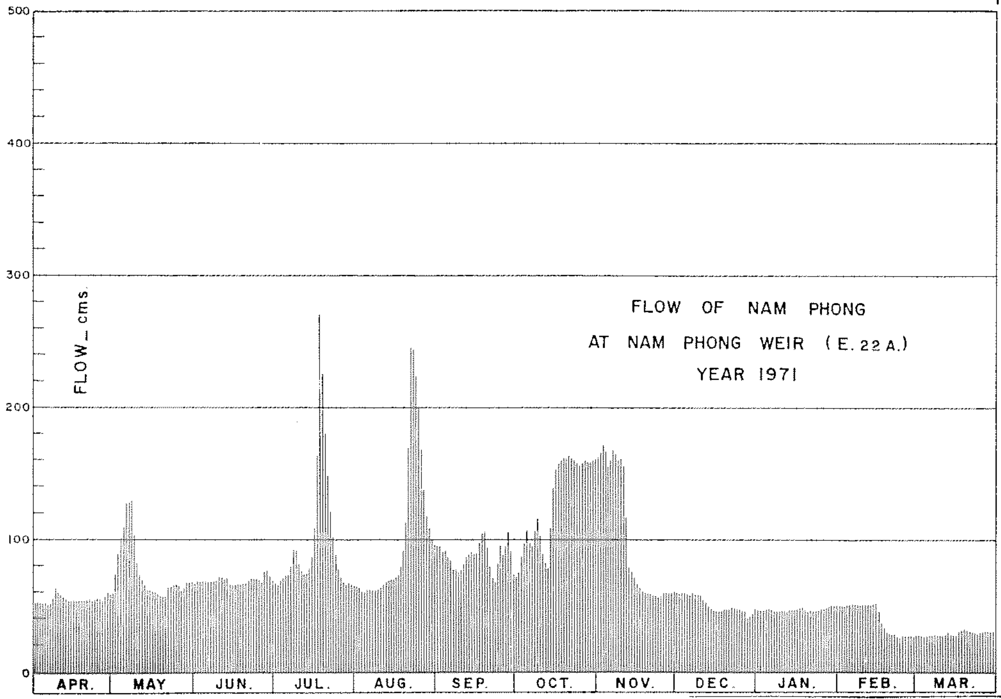
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Ubonrat Dam at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	155.13	155.42	155.70	155.71	155.61	156.67	155.89	157.96	155.44	154.91	155.05	154.06
2	.13	156.25	.76	.68	.57	.67	156.13	158.00	.43	.91	.04	.07
3	.14	.64	.74	.78	.50	.56	.56	.07	.44	.91	.07	.04
4	.14	.79	.75	.89	.45	.57	.85	.01	.44	.93	.08	.03
5	.12	157.02	.75	.93	.51	.49	.96	157.85	.43	.95	.08	.05
6	155.08	157.39	155.77	155.94	155.54	156.32	156.73	157.91	155.40	154.93	155.08	154.05
7	.12	.41	.75	156.18	.53	.12	.64	158.03	.44	.89	.08	.05
8	.30	.40	.74	.60	.54	.10	.97	.00	.42	.94	.08	.05
9	.56	156.90	.78	.59	.54	.02	157.16	157.90	.42	.92	.08	.05
10	.44	.27	.90	.28	.55	.12	156.82	.93	.41	.93	.08	.05
11	155.32	155.93	155.86	156.09	155.65	156.24	156.44	157.85	155.21	154.90	155.08	154.04
12	.28	.74	.82	155.98	.75	.41	.21	156.93	.09	.90	.08	.05
13	.24	.61	.88	* .99	.78	.46	.13	.13	.03	.92	.09	.16
14	.22	.54	.70	*156.11	.84	.53	157.32	.05	154.99	.93	.11	.09
15	.21	.48	.69	* .43	.83	.48	.71	155.82	.94	.94	.15	.06
16	155.22	155.44	155.68	*156.95	155.85	156.51	157.85	155.64	154.87	154.98	154.89	154.07
17	.23	.45	.70	*157.62	* .96	.69	.89	.62	.93	.99	.45	.20
18	.22	.39	.67	*159.37	*156.18	.90	.90	.49	.94	155.00	.30	.23
19	.21	.32	.71	*158.66	* .57	.96	.94	.44	.97	154.87	.18	.26
20	.21	.34	.72	* .19	*157.14	.56	.93	.43	.98	.89	.12	.23
21	155.23	155.41	155.79	*157.74	*158.29	156.22	157.96	155.42	155.03	154.91	154.09	154.20
22	.24	.59	.85	* .28	*159.07	155.95	.93	.39	.03	.85	.07	.17
23	.21	.60	.85	*156.89	* .04	.76	.90	.36	154.99	.91	.04	.15
24	.24	.63	.84	* .52	*158.79	156.36	.87	.32	.97	.93	153.98	.14
25	.28	.68	.83	* .18	* .36	.67	.86	.37	.91	.96	154.01	.14
26	155.24	155.68	155.72	*155.95	*157.98	156.48	157.87	155.44	154.87	154.99	154.00	154.18
27	.19	.53	156.06	* .77	* .48	.70	.90	.45	.88	155.02	.00	.15
28	.39	.62	.07	.68	*157.20	.92	.89	.44	.69	.04	.01	.17
29	.46	.70	155.90	.70	* .04	.31	.87	.45	.76	.04	.00	.17
30	.37	.77	.77	.69	*156.82	155.97	.91	.48	.86	.04		.18
31		.76		.65	* .69		157.93		.95	.05		.16
Mean	155.24	155.95	155.79	156.48	156.53	156.42	157.32	156.47	155.10	154.94	154.63	154.12
Max.	155.46	157.41	156.07	159.37	159.07	156.96	157.96	158.07	155.44	155.05	155.15	154.26
Min.	155.08	155.32	155.67	155.65	155.45	155.76	155.89	155.32	154.69	154.85	154.00	154.03

WATER YEAR 1971 : Max. 159.37 m. Min. 154.03 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	52	59	67	67	65	95	72	163	60	47	50	28
2	52	82	68	66	63	95	78	166	59	47	50	28
3	52	94	68	69	61	91	91	171	60	47	50	27
4	52	100	68	72	60	92	102	167	60	47	51	27
5	52	110	68	73	62	89	107	155	59	48	51	28
6	51	128	68	73	62	84	97	160	58	47	51	28
7	52	129	68	80	62	78	94	168	60	46	51	28
8	56	129	68	93	62	78	107	166	59	47	51	28
9	63	104	69	92	62	75	116	160	59	47	51	28
10	60	82	72	82	63	78	101	161	59	47	51	28
11	57	74	71	77	65	81	88	155	54	46	51	27
12	56	68	70	74	68	87	81	106	51	46	51	28
13	55	64	71	* 74	69	88	78	78	49	47	51	30
14	54	62	67	* 78	70	90	124	76	48	47	51	28
15	54	61	66	* 87	70	89	148	70	47	47	52	28
16	54	60	66	* 106	* 71	90	155	65	46	48	46	28
17	54	60	67	* 146	* 74	96	159	64	47	48	36	31
18	54	58	66	* 270	* 80	104	160	61	47	49	33	31
19	54	57	67	* 214	* 92	107	162	60	48	46	30	32
20	54	57	67	* 179	* 116	91	161	59	48	46	29	31
21	54	59	69	* 149	* 187	81	163	59	49	47	28	31
22	55	64	71	* 123	* 245	73	161	58	49	45	28	30
23	54	64	71	* 104	* 243	68	160	58	48	47	27	30
24	55	65	70	* 90	* 223	85	158	57	48	47	26	29
25	56	66	70	* 80	* 191	95	156	58	47	48	27	29
26	55	66	67	* 73	* 165	89	158	60	46	48	27	30
27	53	62	76	* 69	* 134	96	160	60	46	49	27	30
28	58	64	77	66	* 118	105	159	60	41	50	27	30
29	60	67	72	67	* 111	83	158	60	43	50	27	30
30	58	68	68	66	* 101	74	160	61	45	50	–	30
31	–	68	–	65	* 97	–	161	–	48	50	–	30
Total	1,646	2,351	2,073	3,024	3,212	2,627	4,035	3.022	1,588	1,471	1,181	901
Mean	54.9	75.8	69.1	97.5	104	87.6	130	101	512	474	40.7	29.1
Max.	60	129	77	270	246	107	163	171	60	50	52	32
Min.	51	57	66	65	60	68	72	57	41	45	27	27
Runoff – mcm.	142.214	203.126	179.107	261.274	277.517	226.973	348.624	261.101	137.203	127.094	102.038	77.846

WATER YEAR 1971 : Max. 270 Min. 27 Mean 74.1 Annual Runoff 2,344.118 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.18	23.00	159.65	292				

CHI RIVER BASIN

Chi River at highway bridge, Chaiyaphum (E. 23)

Location: Lat. 15°-40'-49" N., Long. 102°-00'-47" E., on left bank at highway bridge, Ban Mun Khai, Amphoe Muang, Chaiyaphum.

Drainage Area: 6,835 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 174.00 m. (M.S.L.)

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

- Location: Near automatic gage building.
- Elevation: + 181.981 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954-1956, 1967 to date.

Rating Operation:

- Period of Rating: 1968 to date
- Rated by Float: -
- Rated by Current Meter: 1968 to date

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

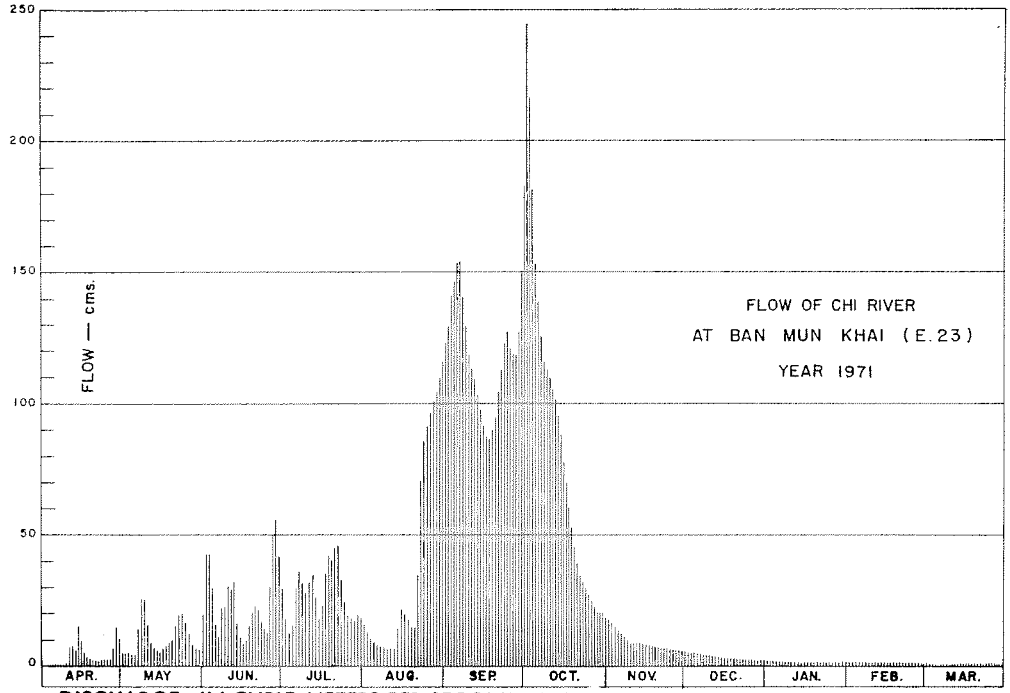
Overbank Flow Conditions: Overbank flow starts at elevation + 180.60 m. (M.S.L.).

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. But overbank flow obtained by using stage-discharge relationship which was determined from discharge measurements made in 1969. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.81	175.47	176.60	177.46	176.58	181.75	182.00	176.82	175.61	175.18	175.02	174.85
2	.86	.47	178.57	176.83	.38	.79	.06	.77	.52	.15	.01	.85
3	.87	.56	.65	.49	.21	.84	.02	.67	.57	.14	.05	.86
4	.84	.42	177.86	.32	.06	.87	181.95	.56	.56	.14	174.98	.85
5	.84	.41	176.87	.59	175.96	.89	.87	.48	.54	.14	.98	.84
6	174.83	175.65	176.20	177.61	175.88	181.89	181.80	176.35	175.52	175.12	174.96	174.83
7	.89	176.25	.11	178.13	.80	.85	.73	.27	.50	.11	.96	.83
8	.84	177.39	177.12	177.93	.74	.80	.64	.20	.50	.10	.97	.87
9	.80	.36	.12	.80	.71	.73	.59	.02	.48	.09	.98	.87
10	.79	176.91	.71	.54	.70	.65	.57	175.93	.46	.08	175.01	.87
11	175.81	176.49	177.69	177.91	175.68	181.59	181.50	175.95	175.45	175.08	175.00	174.86
12	.85	175.93	.87	178.03	.70	.51	.39	176.03	.43	.07	174.96	.86
13	.56	.59	.21	177.58	.79	.41	.26	.00	.37	.06	.94	.86
14	176.54	.62	176.48	.02	176.55	.30	.07	175.95	.33	.05	.93	.86
15	.19	.58	.06	176.69	177.11	.14	180.77	.90	.29	.03	.93	.88
16	175.64	175.60	175.85	176.93	176.93	180.95	180.30	175.89	175.26	175.01	174.94	174.88
17	.33	.79	.99	178.23	.76	.92	179.65	.86	.23	.01	.97	.88
18	.18	.92	176.54	.57	.69	.95	.14	.83	.20	.01	.95	.84
19	.07	.96	.84	.42	.48	181.07	178.82	.81	.19	.01	.94	.80
20	.04	176.04	177.32	.69	.52	.26	.49	.79	.19	.00	.92	.86
21	175.01	176.65	177.22	178.77	177.34	181.45	178.16	175.76	175.20	174.99	174.92	174.92
22	.00	.88	176.84	.57	180.44	.60	177.92	.74	.20	.98	.93	.90
23	174.96	.93	.61	.14	.88	.72	.76	.74	.20	.99	.95	.89
24	175.14	.99	.43	177.63	.99	.76	.61	.72	.19	.98	.98	.89
25	.09	.74	.35	.18	181.13	.73	.42	.69	.17	.97	.93	.87
26	175.14	176.28	177.47	176.92	181.26	181.67	177.25	175.68	175.16	174.98	174.87	174.88
27	.17	175.88	178.98	.81	.33	.68	.09	.67	.16	.99	.86	.90
28	176.08	.73	179.43	.74	.41	.72	.02	.66	.18	.99	.86	.90
29	.52	.76	.04	.86	.50	.78	.03	.66	.20	175.06	.86	.86
30	175.85	.57	178.27	.89	.58	.88	.01	.64	.21	.16	-	.83
31	-	.64	-	.78	.65	-	176.94	-	.21	.10	-	.80
Mean	175.28	176.08	177.24	177.48	177.86	181.57	179.74	176.00	175.33	175.06	174.95	174.86
Max.	176.54	177.39	179.43	178.77	181.65	181.89	182.06	176.82	175.61	175.18	175.05	174.92
Min.	174.79	175.41	175.85	176.32	175.68	180.92	176.94	175.64	175.16	174.97	174.86	174.80

WATER YEAR 1971 : Max. 182.06 m. Min. 174.79 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.35	4.46	16	26	15	126	200 *	18	5.59	2.36	1.40	0.55
2	0.60	4.46	42	18	13	130	243 *	18	4.86	2.15	1.35	0.55
3	0.65	5.18	43	14	11	142	214 *	16	5.26	2.08	1.55	0.60
4	0.50	4.06	32	12	9.80	150	177 *	15	5.18	2.08	1.20	0.55
5	0.50	3.98	19	15	8.80	154	150 *	14	5.02	2.08	1.20	0.50
6	0.45	5.95	11	28	8.02	154	132 *	13	4.86	1.94	1.10	0.45
7	0.75	12	10	36	7.30	145	123 *	12	4.70	1.87	1.10	0.45
8	0.50	25	22	33	6.76	132	116 *	11	4.70	1.80	1.15	0.65
9	0.30	25	22	31	6.49	123	113 *	9.40	4.54	1.75	1.20	0.65
10	0.27	19	30	27	6.40	116	111 *	8.50	4.38	1.70	1.35	0.65
11	7.39	14	29	32	6.22	113	107 *	8.70	4.30	1.70	1.30	0.60
12	7.75	8.50	32	34	6.40	108	102 *	9.50	4.14	1.65	1.10	0.60
13	5.18	5.42	23	28	7.21	103	97 *	9.20	3.69	1.60	1.00	0.60
14	15	5.68	14	21	15	98	91 *	8.70	3.41	1.55	0.95	0.60
15	11	5.34	9.80	17	22	93	82 *	8.20	3.13	1.45	0.95	0.70
16	5.86	5.50	7.75	20	20	87	72	8.11	2.92	1.35	1.00	0.70
17	3.41	7.21	9.10	37	18	86	60	7.84	2.71	1.35	1.15	0.70
18	2.36	8.40	15	42	17	87	51	7.57	2.50	1.35	1.05	0.50
19	1.65	8.80	18	40	14	91	46	7.39	2.43	1.35	1.00	0.30
20	1.50	9.60	24	44	15	97	41	7.21	2.43	1.30	0.90	0.60
21	1.35	16	23	45	25	105	36	6.94	2.50	1.25	0.90	0.90
22	1.30	19	18	42	75	113	33	6.76	2.50	1.20	0.95	0.80
23	1.10	20	16	36	85 *	122	30	6.76	2.50	1.25	1.05	0.75
24	2.08	20	14	29	87 *	127	28	6.58	2.43	1.20	1.20	0.75
25	1.75	17	13	23	92 *	123	26	6.31	2.29	1.15	0.95	0.65
26	2.08	12	26	19	97 *	118	24	6.22	2.22	1.20	0.65	0.70
27	2.29	8.02	49	18	100 *	118	21	6.31	2.22	1.25	0.60	0.80
28	10	6.67	56	17	103 *	122	21	6.04	2.36	1.25	0.60	0.80
29	15	6.94	50	19	107 *	129	21	6.04	2.50	1.60	0.60	0.60
30	7.75	5.27	38	19	112 *	152	21	5.86	2.57	2.22	–	0.45
31	–	5.86	–	18	116 *	–	20	–	2.57	1.80	–	0.30
Total	110.67	324.30	731.65	840	1,234.40	3,564	2,609	280.96	107.41	49.83	30.55	19.00
Mean	3.69	10.5	24.4	27.1	41.1	119	84.2	9.36	3.46	1.61	1.05	0.61
Max.	15	25	56	45	116	154	243	18	5.59	2.36	1.55	0.90
Min.	0.27	3.98	7.75	12	6.22	86	20	5.86	2.22	1.15	0.60	0.30
Runoff - mcm.	9.562	28.019	63.214	72.576	106.652	307.930	225.418	24.275	9.280	4.305	2.635	1.642

WATER YEAR 1971 : Max. 243 Min. 0.27 Mean 27.0 Annual Runoff 855.509 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.2	24.00	182.06	243				

CHI RIVER BASIN

Nam Phan at Ban Hua Khua, Kalasin (E. 26)

Location: Lat. 16°-74'-36" N., Long. 103°-28'-15" E., on right bank at the bridge across Nam Phan, Amphoe Yang Talat, Kalasin.

Drainage Area: 6,565 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 134.380 m. (M.S.L.)

Bench Mark:

Location:
Elevation:

Gage Reading Frequency: 4-time daily readings at 06.00, 10.00, 14.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 4 readings.

Period of Available Gage Records: 1954 to date

Rating Operation:

Period of Rating: 1970 to date
Rated by Float: -
Rated by Current Meter: 1970 to date

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

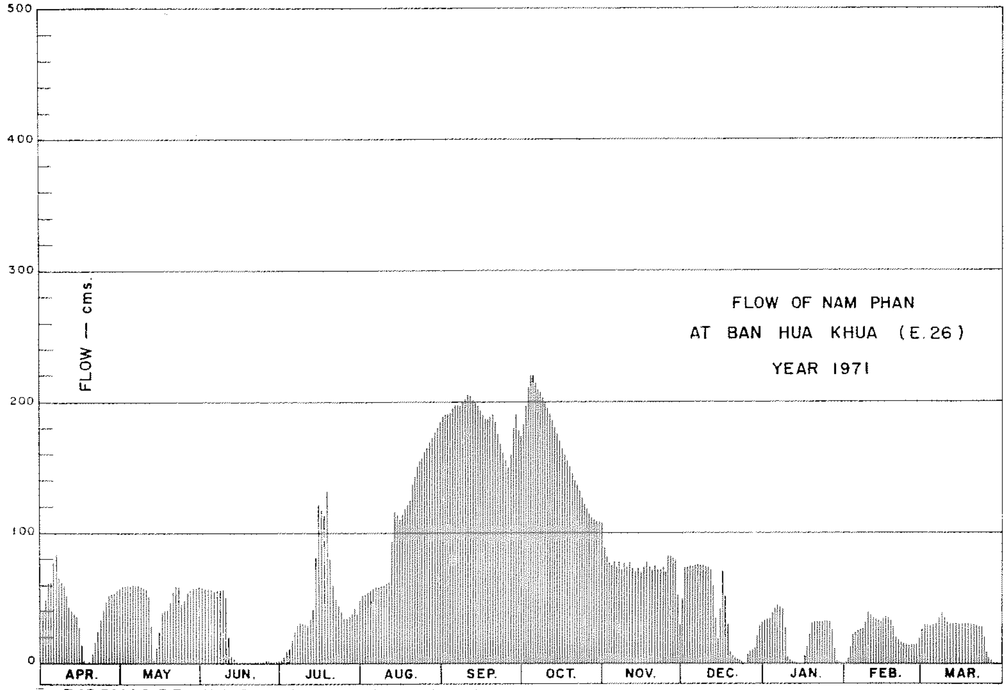
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Lam Pao Dam. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.54	137.10	137.03	134.96	136.95	139.43	139.33	137.70	137.14	136.47	134.91	136.28
2	137.14	.10	.03	135.23	137.01	.44	.62	.61	.44	.48	.90	.37
3	.16	.10	.03	.61	.03	.45	.76	.52	.45	.48	135.23	.38
4	.41	.11	.03	.65	.05	.49	.85	.46	.45	.65	136.00	.38
5	.59	.11	.01	136.04	.05	.53	.82	.51	.45	.73	.15	.38
6	137.64	137.15	137.01	136.16	137.08	139.53	139.74	137.44	137.46	136.76	136.17	136.38
7	.24	.12	.02	.31	.10	.52	.68	.48	.46	.75	.20	.38
8	.12	.11	.04	.38	.13	.57	.65	.43	.46	.75	.19	.56
9	.10	.11	.03	.35	.14	.68	.60	.48	.46	.66	.43	.62
10	136.76	.11	136.95	.31	.17	.69	.54	.43	.46	135.34	.61	.44
11	136.59	137.03	135.64	136.27	137.17	139.66	139.49	137.49	137.42	135.09	136.76	136.39
12	.58	136.63	.15	.49	.61	.62	.42	.42	.38	.01	.76	.39
13	.54	134.97	134.99	.84	138.28	.57	.31	.38	.20	134.98	.77	.39
14	.45	135.71	.90	137.73	.19	.51	.23	.43	.52	.95	.70	.38
15	135.39	136.29	.83	138.38	.14	.42	.14	.36	137.09	.95	.74	.38
16	134.97	136.60	134.80	138.26	138.25	139.39	139.07	137.43	137.39	134.94	136.81	136.38
17	.90	.67	.81	.23	.35	.37	.00	.52	.39	135.64	.53	.38
18	.85	.67	.81	.55	.39	.45	138.91	.46	136.54	136.09	.47	.38
19	.85	.69	.88	137.64	.45	.48	.82	.41	135.34	.33	.46	.37
20	135.53	.97	.91	.23	.65	.47	.75	.47	.19	.42	.08	.37
21	136.11	137.09	134.89	136.92	138.78	139.34	138.65	137.40	135.17	136.42	135.86	136.37
22	.24	.08	.89	.82	.88	.19	.56	.36	.16	.43	.84	.37
23	.60	.07	.92	.64	.96	.06	.50	.42	.05	.42	.83	.37
24	.70	136.71	.99	.49	139.03	138.96	.40	.41	.05	.43	.81	.36
25	.91	.81	135.05	.43	.05	.85	.31	.63	.03	.44	.80	.36
26	136.95	137.00	135.03	136.45	139.10	138.84	138.24	137.62	135.66	136.44	135.80	135.55
27	.95	.02	.02	.50	.14	139.17	.16	.58	.70	.44	.80	.03
28	.96	.03	134.98	.58	.23	.42	.05	.55	.70	135.60	.80	134.94
29	137.06	.02	.98	.67	.31	.22	137.95	.52	.94	.07	.79	.90
30	.08	.07	135.00	.53	.33	.23	.89	136.25	136.15	134.98		.87
31		.04		136.85	.40		.79		.43	.94		.86
Mean	136.06	136.57	135.70	136.69	138.14	138.14	139.51	137.48	136.85	135.97	136.42	136.50
Max.	137.59	137.15	137.03	138.38	139.40	139.69	139.85	137.70	137.46	136.76	136.81	136.62
Min.	134.85	134.79	134.80	134.96	136.95	138.84	137.79	136.25	135.03	134.94	134.90	134.86

WATER YEAR 1971 : Max. 139.85 m. Min. 134.80 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	38	59	56	0.72	53	190	183	88	61	35	0.37	29
2	61	59	56	3.68	55	191	204	83	75	35	0.30	32
3	62	59	56	10	56	191	215	79	75	35	3.68	32
4	73	59	56	11	57	194	221	76	75	42	21	32
5	82	59	55	22	57	197	220	78	75	44	25	32
6	85	61	55	26	58	197	213	75	76	46	26	32
7	65	60	56	30	59	196	208	77	76	45	27	32
8	60	59	57	32	60	200	206	74	76	45	27	39
9	59	59	56	31	61	208	202	77	76	42	34	41
10	46	59	53	30	62	209	198	74	76	5.44	40	34
11	40	56	11	29	62	207	194	77	74	1.90	46	33
12	39	41	2.60	36	83	204	189	74	72	1.10	46	33
13	38	0.79	0.93	49	117	200	182	72	63	0.86	46	33
14	35	12	0.30	89	112	196	176	74	8.40	0.65	43	32
15	6.24	30	0.09	122	110	189	170	71	59	0.65	45	32
16	0.79	40	0.00	116	115	186	165	74	72	0.58	47	32
17	0.30	42	0.03	114	120	185	160	79	72	11	37	32
18	0.15	42	0.03	132	122	191	154	76	38	24	35	32
19	0.15	42	0.24	85	126	194	148	73	5.44	31	35	32
20	8.60	54	0.37	65	138	193	144	76	3.08	34	23	32
21	24	59	0.27	52	146	184	138	73	2.84	34	17	32
22	28	58	0.27	48	152	173	133	71	2.72	34	16	32
23	40	58	0.44	41	157	164	129	74	1.90	34	16	32
24	43	44	0.93	36	162	157	123	73	1.50	34	15	32
25	51	47	1.50	34	163	150	118	84	1.30	34	15	32
26	53	55	1.30	35	167	149	115	84	11	34	15	9.00
27	53	56	1.20	36	170	172	111	82	12	34	15	1.30
28	53	56	0.86	39	176	189	105	80	12	10	15	0.58
29	57	56	0.86	42	182	175	100	79	19	170	15	0.30
30	58	58	1.00	37	183	176	97	28	25	0.86	–	0.21
31	–	57	–	49	188	–	92	–	34	0.58	–	0.18
Total	1,259.23	1,556.79	580.22	1,482.40	3,529	5,607	5,013	2,255	1,331.18	731.32	761.35	829.57
Mean	41.9	50.2	19.3	47.8	114	187	162	75.1	42.9	23.5	25.3	26.7
Max.	82	61	56	122	118	209	221	88	76	46	47	41
Min.	0.15	0.79	0.00	0.72	53	209	92	28	1.30	0.58	0.30	0.18
Runoff - mcm.	108.797	134.506	50.131	128.079	304.905	484.444	433.123	194.832	115.013	63.186	65.780	71.674

WATER YEAR 1971 : Max. 221 Min. 0.00 Mean 68.1 Annual Runoff 2,154.475 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.10	14.00	139.86	223				

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

Location: Lat. 15°-54'-40" N., Long. 101°-42'-40" E., on left bank about 500 meters north of Ban Nong O, 600 meters upstream from gaging station E32, Amphoe Kaset Sombun, Chaiyaphum.

Drainage Area: 2,905 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 198.00 m. (M.S.L.)

Bench Mark: B.M.-H.S. E.32

Location: On left bank along the vertical staff gage line.
Elevation: + 210.611 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: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

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

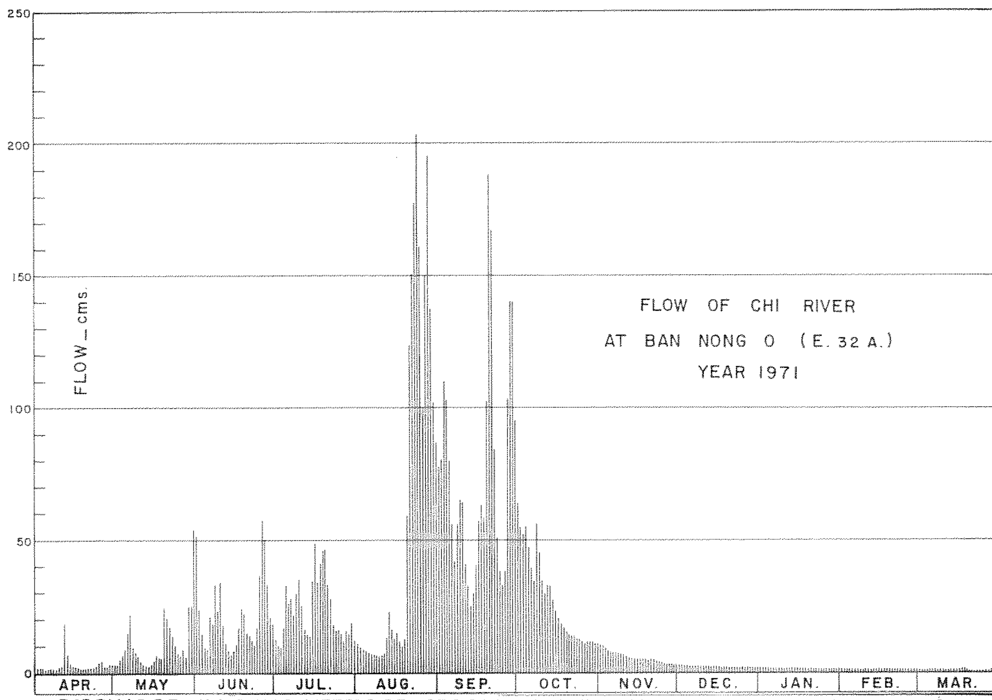
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.62	198.72	200.81	199.28	199.18	201.75	201.33	199.17	198.81	198.71	198.61	198.58
2	.61	.73	199.78	.15	.13	202.09	200.96	.15	.81	.70	.61	.58
3	.60	.87	.36	.11	.09	.89	.86	.11	.80	.70	.60	.58
4	.60	.98	.14	.49	.06	.63	.97	.08	.79	.70	.60	.57
5	.58	199.06	.06	200.13	.02	.10	.77	.06	.79	.70	.60	.57
6	198.59	199.31	199.65	199.87	199.01	200.99	200.38	199.04	198.79	198.69	198.60	198.57
7	.60	.69	.54	.91	199.00	.47	.16	.03	.78	.69	.60	.57
8	.59	.14	200.11	.69	198.99	.83	201.01	.01	.78	.68	.60	.57
9	.59	.03	199.75	200.01	.98	201.32	200.51	.01	.78	.68	.59	.57
10	.69	198.92	200.18	.19	.97	.29	.22	198.98	.77	.67	.59	.56
11	198.74	198.84	199.53	199.83	198.99	200.50	200.00	198.97	198.77	198.67	198.59	198.56
12	199.53	.79	.19	.47	199.23	.09	.13	.95	.75	.68	.59	.56
13	.10	.77	.07	.37	.74	199.86	.14	.94	.75	.68	.59	.55
14	.86	.74	198.99	.28	.42	.98	199.94	.93	.74	.66	.59	.55
15	.76	.78	199.02	200.34	199.30	200.26	.74	.93	.73	.66	.59	.55
16	198.71	198.85	199.22	200.72	199.38	200.24	199.65	198.92	198.73	198.66	198.59	198.59
17	.68	.98	.47	.17	.23	201.27	.58	.91	.73	.66	.59	.66
18	.64	.93	.78	.49	.14	.12	.51	.91	.73	.66	.59	.63
19	.63	.89	.68	.63	.29	202.15	.44	.91	.73	.65	.59	.58
20	.62	199.81	.39	.43	201.13	205.35	.39	.91	.72	.64	.59	.55
21	198.62	199.57	199.34	200.16	203.56	204.62	199.36	198.90	198.71	198.64	198.58	198.55
22	.64	.49	.23	199.88	204.12	202.12	.33	.87	.71	.64	.57	.54
23	.68	.30	.15	.56	205.00	200.88	.30	.85	.71	.64	.60	.54
24	.70	.16	.52	.45	.79	.41	.28	.85	.71	.63	.59	.54
25	.83	.01	200.23	.47	204.10	.13	.24	.83	.71	.63	.58	.54
26	198.85	198.95	201.05	199.38	202.55	200.32	199.21	198.82	198.71	198.63	198.59	198.53
27	.79	199.09	200.50	.46	204.23	201.94	.24	.82	.71	.63	.60	.54
28	.69	198.91	.03	.45	205.57	203.85	.23	.82	.71	.62	.59	.53
29	.80	.82	199.63	.42	203.38	.84	.23	.81	.71	.62	.58	.54
30	.77	.82	.53	.34	202.83	202.51	.21	.81	.71	.61		.55
31		200.94		.25	.13		.20		.71	.60		.55
Mean	198.79	199.09	199.63	199.77	200.92	201.59	199.89	198.94	198.74	198.66	198.59	198.56
Max.	199.53	200.94	201.05	200.72	205.79	205.35	201.33	199.17	198.81	198.71	198.61	198.66
Min.	198.58	198.72	198.99	199.11	198.97	199.86	199.20	198.81	198.71	198.60	198.57	198.53

WATER YEAR 1971 : Max. 205.79 m. Min. 198.53 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.36	2.20	51	13	11	77	65	10	3.20	2.10	1.28	0.96
2	1.28	2.30	24	10	9.60	85	55	10	3.20	2.00	1.28	0.96
3	1.20	4.40	14	9.20	8.80	110	52	9.20	3.20	2.00	1.20	0.96
4	1.20	6.60	9.80	17	8.20	103	55	8.60	2.90	2.00	1.20	0.86
5	0.96	8.20	8.20	33	7.40	87	49	8.20	2.90	2.00	1.20	0.86
6	1.08	13	21	26	7.20	56	39	7.80	2.90	1.92	1.20	0.86
7	1.20	22	18	28	7.00	42	34	7.80	2.80	1.92	1.20	0.86
8	1.08	9.80	33	22	6.80	51	56	7.20	2.80	1.84	1.20	0.86
9	1.08	7.60	23	30	6.60	65	43	7.20	2.80	1.84	1.08	0.86
10	1.92	5.40	34	35	6.40	64	35	6.60	2.70	1.76	1.08	0.72
11	2.40	3.80	18	25	6.80	42	30	6.40	2.70	1.76	1.08	0.72
12	18	2.90	11	16	12	32	33	6.00	2.50	1.84	1.08	0.72
13	9.00	2.70	8.40	15	23	25	33	5.80	2.50	1.84	1.08	0.60
14	4.20	2.40	6.80	13	15	29	28	5.60	2.40	1.68	1.08	0.72
15	2.60	2.80	7.40	38	13	36	23	5.60	2.30	1.68	1.08	0.60
16	2.10	4.00	11	49	15	56	20	5.40	2.30	1.68	1.08	1.08
17	1.84	6.60	16	34	12	63	19	5.20	2.30	1.68	1.08	1.68
18	1.50	5.60	24	42	9.80	59	17	5.20	2.30	1.68	1.08	1.44
19	1.44	4.80	22	46	13	88	16	5.20	2.30	1.60	1.08	0.96
20	1.36	24	15	41	60	188	15	5.20	2.20	1.52	1.08	0.60
21	1.36	19	14	34	131	165	14	5.00	2.10	1.52	0.96	0.60
22	1.50	17	12	26	149	87	14	4.40	2.10	1.52	0.84	0.48
23	1.84	13	10	19	177	53	13	4.00	2.10	1.52	1.20	0.48
24	2.00	10	17	16	203	40	13	4.00	2.10	1.44	1.08	0.48
25	3.60	7.20	35	16	148	33	12	3.60	2.10	1.44	0.96	0.48
26	4.00	6.00	57	15	100	38	11	3.40	2.10	1.44	1.08	0.36
27	2.90	8.80	42	12	152	82	12	3.40	2.10	1.44	1.20	0.48
28	1.92	5.00	31	16	195	140	12	3.40	2.10	1.36	1.08	0.36
29	3.00	25	20	15	125	140	12	3.20	2.10	1.36	0.96	0.48
30	2.70	25	18	19	109	99	11	3.20	2.10	1.28	–	0.60
31	–	54	–	12	89	–	11	–	2.10	1.20	–	0.60
Total	81.62	331.10	631.60	742.20	1,836.60	2,235	852	175.80	76.30	51.86	32.08	23.28
Mean	2.69	10.7	21.0	23.9	59.2	74.5	27.5	5.86	2.46	1.67	1.11	0.75
Max.	18	54	57	49	203	188	65	10	3.20	2.10	1.28	1.68
Min.	0.96	2.20	6.80	9.20	6.40	25	11	3.20	2.10	1.20	0.84	0.36
Runoff - mcm.	7.051	28.607	54.570	64.126	158.682	193.104	73.612	15.189	6.592	4.481	2.772	2.011

WATER YEAR 1971 : Max. 203 Min. 0.36 Mean 19.3 Annual Runoff 610.800 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.24	11.00	205.96	209				

CHI RIVER BASIN

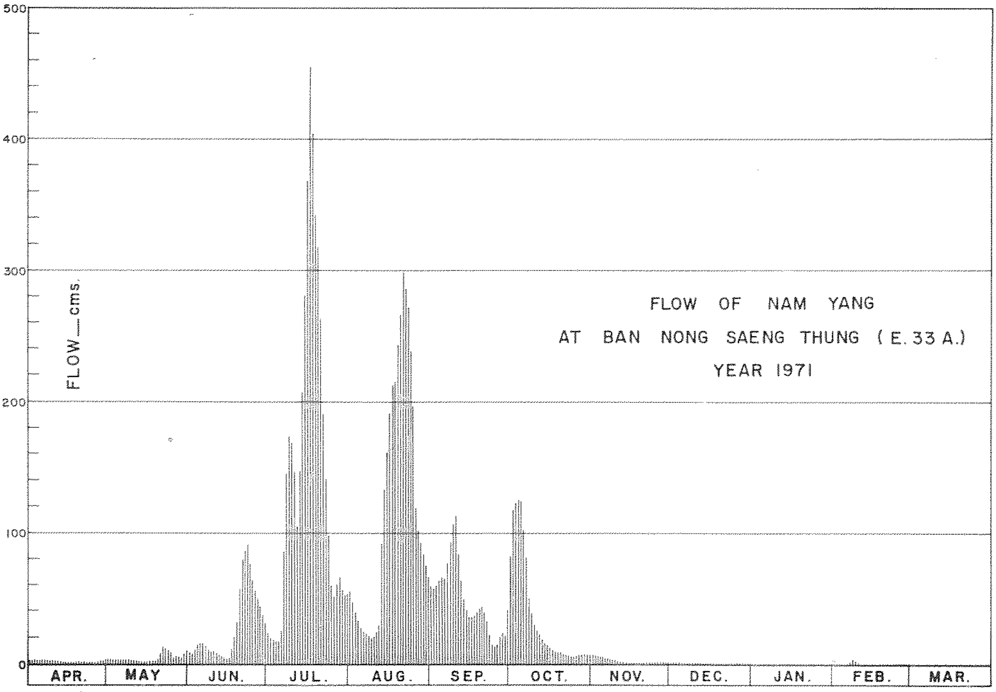
Nam Yang at Ban Nong Saeng Thung, Roi Et (E. 33A)

Location:	Lat. 16°-20'-01" N., Long. 104°-01'-18" E., on left bank about 1 kilometer south-east of Ban Nong Saeng Thung, and 150 meters downstream from confluence with Nong Saeng, Amphoe Phon Thong, Roi Et.
Drainage Area:	2,599 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 133.97 m. (M.S.L.)
Bench Mark:	B.M. – H.S.
Location:	Infront of E.33A station office.
Elevation:	+ 143.700 m. (M.S.L.)
Gage Reading Frequency:	6-time daily readings at 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 6 readings.
Period of Available Gage Records:	1961 to date
Rating Operation:	
Period of Rating:	1961-1968
Rated by Float:	–
Rated by Current Meter:	1961-1968
Stability of Channel Regimes:	Fairly stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1961-1968. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.85	134.04	135.52	136.35	137.35	137.43	137.83	135.36	134.97	134.86	134.82	134.70
2	.86	134.99	.37	.14	.16	.37	139.05	.36	.96	.82	.82	.69
3	.87	.91	.41	135.92	136.88	.39	.19	.32	.97	.90	.81	.66
4	.94	.86	.87	.88	.60	.61	.31	.31	.96	.86	.82	.68
5	.92	.86	.90	.89	.32	.70	.30	.24	.95	.85	.86	.69
6	134.92	134.89	135.86	136.02	136.19	137.62	138.64	135.19	134.95	134.82	134.79	134.69
7	.90	.97	.74	137.92	.17	.64	.06	.17	.94	.83	.91	.68
8	.88	135.02	.58	140.48	.12	138.10	137.40	.16	.94	.84	135.04	.68
9	.86	134.94	.52	.45	.04	.61	136.94	.14	.93	.82	.11	.67
10	.84	.86	.57	.29	.01	139.00	.66	.13	.91	.88	134.99	.73
11	134.83	134.85	135.45	139.46	136.22	138.37	136.43	135.10	134.90	134.84	134.86	134.71
12	.84	.85	.32	138.66	.36	137.71	.24	.08	.89	.83	.87	.69
13	.84	.83	.23	139.82	138.62	.28	.10	.06	.88	.83	.81	.70
14	.83	.82	.17	141.82	139.68	136.93	135.95	.05	.89	.82	.79	.72
15	.82	.89	.15	142.51	140.54	.66	.82	.04	.86	.82	.77	.70
16	134.81	134.92	135.14	143.23	141.15	136.66	135.74	135.05	134.86	134.81	134.94	134.69
17	.81	.87	.20	.16	.22	.61	.65	.03	.84	.81	.83	.71
18	.83	.87	.94	142.83	.28	.77	.61	.03	.83	.80	.79	.70
19	.85	.92	136.21	.52	.66	.91	.58	.01	.88	.79	.79	.69
20	.84	.89	.78	.20	142.15	.94	.51	.02	.85	.82	.76	.69
21	134.84	135.44	137.72	141.68	142.41	136.82	135.45	135.03	134.85	134.84	134.75	134.68
22	.83	.67	138.12	140.70	.28	.57	.39	.01	.86	.82	.74	.67
23	.81	.63	.38	139.14	141.95	.21	.35	.00	.85	.81	.77	.66
24	.81	.55	.04	137.98	.41	135.93	.33	.01	.86	.79	.76	.64
25	.82	.33	137.68	.44	140.43	.76	.32	.02	.86	.78	.76	.65
26	134.94	135.19	137.43	137.17	139.00	135.71	135.35	135.01	134.89	134.81	134.74	134.69
27	.87	.28	.18	.55	138.60	.96	.42	.00	.89	.83	.75	.71
28	.86	.24	136.94	.68	.37	136.20	.43	.00	.87	.80	.72	.69
29	.86	.18	.68	.43	.07	.24	.40	134.99	.87	.83	.71	.68
30	.89	.26	.47	.25	137.86	.11	.41	135.00	.91	.81	–	.63
31	–	.54	–	.25	.62	–	.36	–	.89	.83	–	.68
Mean	134.85	135.08	136.22	139.12	138.76	137.03	136.46	135.10	134.89	134.82	134.82	134.68
Max.	134.94	135.67	138.38	143.23	142.41	139.00	139.31	135.36	134.97	134.90	135.11	134.73
Min.	134.81	134.82	135.14	135.88	136.01	135.71	135.32	134.99	134.83	134.78	134.71	134.63

WATER YEAR 1971 : Max. 143.23 m. Min. 134.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.10	4.08	11	29	57	60	73	8.40	3.24	2.16	1.92	1.20
2	2.16	3.48	8.72	24	52	58	117	8.40	3.12	1.92	1.92	1.14
3	2.22	2.52	9.36	19	43	59	122	7.92	3.24	2.40	1.86	0.96
4	2.88	2.16	18	18	35	65	126	7.76	3.12	2.16	1.92	1.08
5	2.64	2.16	18	18	28	68	126	6.64	3.00	2.10	2.16	1.14
6	2.64	2.34	17	21	25	66	102	5.88	3.00	1.92	1.74	1.14
7	2.40	3.24	15	76	24	66	81	5.64	2.88	1.98	2.52	1.08
8	2.28	3.84	12	175	23	83	59	5.52	2.88	2.04	4.08	1.08
9	2.16	2.88	11	174	21	101	45	5.28	2.76	1.92	4.92	1.02
10	2.04	2.16	12	166	21	115	37	5.16	2.52	2.28	3.48	1.38
11	1.98	2.10	10	132	25	92	30	4.80	2.40	2.04	2.16	1.26
12	2.04	2.10	7.92	103	29	69	26	4.56	2.34	1.98	2.22	1.14
13	2.04	1.98	6.48	147	101	55	23	4.32	2.28	1.98	1.86	1.20
14	1.98	1.92	5.64	249	141	45	19	4.20	2.34	1.92	1.74	1.32
15	1.92	2.34	5.40	*310	178	37	17	4.08	2.16	1.92	1.62	1.20
16	1.86	2.64	5.28	*455	209	37	15	4.20	2.16	1.86	2.88	1.14
17	1.86	2.22	6.00	434	213	35	13	3.96	2.04	1.86	1.98	1.26
18	1.98	2.22	19	*358	217	40	12	3.96	1.98	1.80	1.74	1.20
19	2.10	2.64	25	*311	239	44	12	3.72	2.28	1.74	1.74	1.14
20	2.04	2.34	40	278	274	45	11	3.84	2.10	1.92	1.56	1.14
21	2.04	9.84	69	240	*298	42	10	3.96	2.10	2.04	1.50	1.08
22	1.98	13	83	186	*285	34	9.04	3.72	2.16	1.92	1.44	1.02
23	1.86	13	93	120	258	25	8.40	3.60	2.10	1.86	1.62	0.96
24	1.86	12	81	78	224	19	8.08	3.72	2.16	1.74	1.56	0.84
25	1.92	8.08	67	60	173	15	7.92	3.84	2.16	1.68	1.56	0.90
26	2.88	5.88	60	52	115	14	8.40	3.72	2.34	1.86	1.44	1.14
27	2.22	7.28	52	63	101	20	9.52	3.60	2.34	1.98	1.50	1.26
28	2.16	6.64	45	67	92	25	10	3.60	2.22	1.80	1.32	1.14
29	2.16	5.76	37	60	82	26	9.20	3.48	2.22	1.98	1.26	1.08
30	2.34	6.96	32	54	74	23	9.36	3.60	2.52	1.86	–	0.78
31	–	11	–	54	66	–	8.56	–	2.34	1.98	–	1.08
Total	64.74	150.80	881.80	4,531	3,723	1,483	1,164.48	145.08	76.50	60.60	59.22	34.50
Mean	2.16	4.86	29.4	143	120	49.4	37.6	4.84	2.47	1.95	2.04	1.11
Max.	2.88	13	93	455	298	115	126	8.40	3.24	2.40	4.92	1.38
Min.	1.86	1.92	5.28	18	21	14	7.92	3.48	1.98	1.68	1.26	0.78
Runoff - mcm.	5.593	13.029	76.187	391.478	321.667	128.131	100.611	12.535	6.610	5.236	5.117	2.981

WATER YEAR 1971 : Max. 455 Min. 0.78 Mean 33.2 Annual Runoff 1,069.176 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.16	15.00	143.33	487				

CHI RIVER BASIN

Huai Prong Khun Phet at Ban Nong Bua Noi, Chaiyaphum (E. 35)

Location: Lat. 15°-45'-00" N., Long. 101°-40'-30" E., on left bank about 1.5 kilometers upstream from confluence with Lam Krachuam, Ban Nong Bua Noi, Amphoe Chatturat, Chaiyaphum.

Drainage Area: 457 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Infront of E. 35 Station office.
Elevation: + 5.637 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1968-1972

Rating Operation:

Period of Rating: 1968-1971
Rated by Float: -
Rated by Current Meter: 1968-1971

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

Overbank Flow Conditions: No overbank flow.

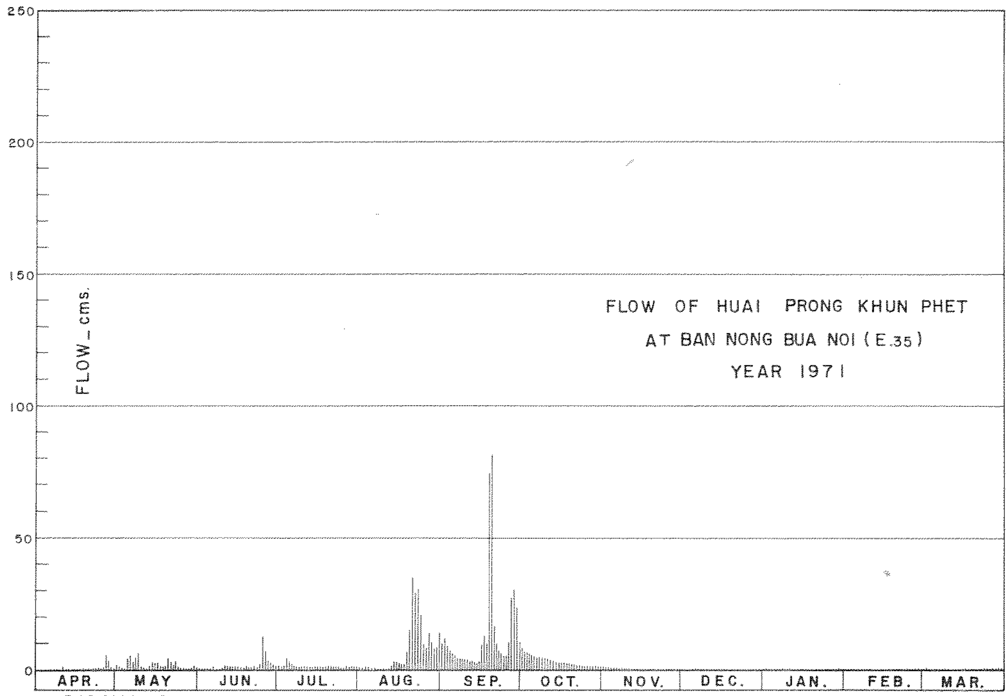
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	-0.04	0.92	0.66	0.88	0.81	1.18	1.16	0.86	0.60	0.54	0.52	0.41
2	-0.06	.81	.59	.86	.79	.23	.12	.84	.59	.54	.52	.40
3	-0.07	.71	.61	.84	.77	.17	.10	.83	.59	.54	.52	.39
4	-0.08	.76	.69	1.03	.75	.13	.10	.82	.59	.54	.52	.38
5	-0.11	1.02	.71	0.99	.73	.09	.08	.81	.58	.54	.52	.38
6	-0.12	1.07	0.90	0.95	0.72	1.07	1.05	0.81	0.58	0.54	0.52	0.37
7	-0.14	0.97	.75	.91	.71	.04	.04	.80	.58	.54	.52	.37
8	-0.02	1.06	.68	.90	.75	.04	.04	.78	.57	.54	.52	.37
9	0.13	1.10	.70	.88	.75	.03	.04	.75	.57	.54	.52	.36
10	.90	0.90	.84	.88	.74	.03	.03	.76	.57	.54	.51	.36
11	0.73	0.81	0.91	0.88	0.74	1.00	1.02	0.75	0.57	0.54	0.51	0.35
12	.63	.78	.90	.86	.83	0.99	.02	.72	.57	.54	.50	.34
13	.58	.80	.84	.84	.95	.98	.01	.72	.57	.53	.51	.33
14	.56	.98	.81	.84	.99	.97	0.99	.72	.57	.53	.50	.33
15	.55	.97	.86	.84	.99	1.00	.98	.71	.57	.53	.50	.32
16	0.59	0.98	0.89	0.85	0.96	1.16	0.97	0.69	0.57	0.53	0.49	0.32
17	.73	.92	.80	.86	.94	.24	.96	.68	.57	.53	.49	.40
18	.75	.88	.78	.89	.93	.19	.96	.67	.56	.53	.49	.64
19	.64	.86	.86	.89	1.14	3.43	.94	.65	.56	.53	.48	.56
20	.58	1.05	.80	.89	.32	3.66	.93	.65	.56	.52	.47	.54
21	0.58	1.00	0.81	0.87	1.56	1.30	0.92	0.64	0.56	0.52	0.47	0.54
22	.58	0.90	.85	.85	.49	.16	.92	.63	.56	.53	.47	.53
23	.67	.99	.79	.85	.52	.11	.91	.63	.56	.53	.46	.53
24	.58	.83	.80	.84	.35	.08	.90	.62	.55	.52	.45	.52
25	.56	.73	1.24	.82	.17	.06	.90	.62	.54	.51	.44	.51
26	0.82	0.67	1.14	0.82	1.15	1.07	0.89	0.62	0.55	0.51	0.43	0.51
27	1.07	.62	.01	.90	.27	.46	.88	.61	.68	.52	.42	.53
28	0.86	.60	0.95	.89	.19	.52	.88	.61	.67	.52	.42	.54
29	.72	.67	.91	.87	.14	.45	.88	.60	.55	.52	-	.54
30	.68	.89	.90	.84	.12	.22	.88	.60	.55	.52	-	.53
31	-	.79	-	.82	.27	-	.87	-	.55	.52	-	.53
Mean	0.46	0.87	0.83	0.87	1.01	1.30	0.97	0.70	0.57	0.53	0.48	0.44
Max.	1.07	1.10	1.24	1.03	1.56	3.66	1.16	0.86	0.60	0.57	0.52	0.64
Min.	- 0.14	0.60	0.59	0.82	0.71	0.97	0.87	0.60	0.54	0.01	0.42	0.32

WATER YEAR 1971 : Max. 3.66 m. Min. -0.14 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	1.80	0.22	1.28	0.86	9.94	9.08	1.16	0.10	0.04	0.02	0.00
2		0.86	0.09	1.16	0.75	12	7.36	1.04	0.09	0.04	0.03	
3		0.35	0.12	1.40	0.65	9.51	6.50	0.98	0.09	0.04	0.02	
4		0.60	0.28	4.33	0.55	7.79	6.50	0.92	0.09	0.04	0.02	
5		4.02	0.35	3.20	0.45	6.29	5.98	0.86	0.08	0.04	0.02	
6		5.67	1.40	2.40	0.40	5.67	4.95	0.86	0.08	0.04	0.02	
7		2.80	0.55	1.60	0.35	4.64	4.64	0.80	0.08	0.04	0.02	
8		5.26	0.26	1.40	0.55	4.64	4.64	0.70	0.07	0.04	0.02	
9	0.00	6.50	0.30	1.28	0.55	4.33	4.64	0.55	0.07	0.04	0.02	
10	1.40	1.40	1.04	1.28	0.50	4.33	4.33	0.60	0.07	0.04	0.01	
11	0.45	0.86	1.60	1.28	0.50	3.40	4.02	0.55	0.07	0.04	0.01	
12	0.16	0.70	1.40	1.16	0.98	3.20	4.02	0.40	0.07	0.04	0.00	
13	0.08	0.80	1.04	1.04	2.40	3.00	3.71	0.40	0.07	0.03	0.01	
14	0.06	3.00	0.86	1.04	3.20	2.80	3.20	0.40	0.07	0.03	0.00	
15	0.05	2.60	1.16	1.04	3.20	3.40	3.00	0.35	0.07	0.03		
16	0.09	3.00	1.34	1.10	2.60	9.08	2.80	0.28	0.07	0.03		
17	0.45	1.80	0.80	1.16	2.20	13	2.60	0.26	0.07	0.03		0.00
18	0.55	1.28	0.70	1.34	2.00	10	2.60	0.24	0.06	0.03		0.18
19	0.18	1.16	1.16	1.34	8.22	73	2.20	0.20	0.06	0.03		0.06
20	0.08	4.95	0.80	1.34	17	81	2.00	0.20	0.06	0.02		0.04
21	0.08	3.40	0.86	1.22	35	16	1.80	0.18	0.06	0.02		0.04
22	0.08	1.40	1.10	1.10	29	9.08	1.80	0.16	0.06	0.03		0.03
23	0.24	3.20	0.75	1.10	31	6.98	1.60	0.16	0.06	0.03		0.03
24	0.08	0.98	0.80	1.04	19	5.98	1.40	0.14	0.05	0.02		0.02
25	0.06	0.45	13	0.92	9.51	5.26	1.40	0.14	0.04	0.01		0.01
26	0.92	0.24	8.22	0.92	8.65	5.67	1.34	0.14	0.05	0.01		0.01
27	5.67	0.14	3.71	1.40	14	26	1.28	0.12	0.26	0.02		0.03
28	1.16	0.10	2.40	1.34	10	31	1.28	0.12	0.07	0.02	0.00	0.04
29	0.40	0.24	1.60	1.22	8.22	26	1.28	0.10	0.05	0.02	–	0.04
30	0.26	1.34	1.40	1.04	7.36	12	1.22	0.10	0.05	0.02	–	0.03
31	–	0.75	–	0.92	14	–	–	–	0.05	0.02	–	0.03
Total	12.50	61.85	49.31	43.03	233.65	414.99	104.45	13.11	2.29	0.93	0.22	0.59
Mean	0.41	1.99	1.64	1.38	7.53	13.8	3.36	0.43	0.07	0.03	0.007	0.01
Max.	5.67	6.50	13	4.33	35	81	9.08	1.16	0.10	0.04	0.03	0.18
Min.	0.00	0.10	0.09	0.92	0.35	2.80	1.22	0.10	0.04	0.01	0.00	0.00
Runoff - mcm.	1.080	5.343	4.260	3.717	20.187	35.855	9.024	1.132	1.197	0.080	0.019	0.050

WATER YEAR 1971 : Max. 81 Min. 0.00 Mean 2.56 Annual Runoff 80.949 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	24.00	4.48	116				

CHI RIVER BASIN

Lam Krachuan at Ban Nong Bua Raheo, Chaiyaphum (E. 36A)

Location: Lat. 15°-43'-24" N., Long. 101°-40'-04" E., on right bank about 2 kilometers upstream from E.36 station at Ban Nong Bua Raheo, Amphoe Chatturat, Chaiyaphum.

Drainage Area: 290 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 211.25 m. (M.S.L.)

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

- Location: On the right bank along the measuring line.
- Elevation: + 217.647 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: 1970 to date

Rating Operation:

- Period of Rating: 1971 to date
- Rated by Float: -
- Rated by Current Meter: 1971 to date

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

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	212.81	213.57	213.27	213.36	213.32	213.84	214.00	213.37	213.21	213.07	212.97	212.77
2	.80	.47	.24	.34	.31	.79	213.90	.35	.21	.07	.96	.76
3	.80	.22	.23	.32	.36	.72	.86	.35	.21	.12	.95	.75
4	.79	.24	.22	.32	.37	.70	.86	.34	.21	.11	.94	.74
5	.78	.26	.21	.46	.32	.69	.81	.33	.21	.10	.93	.74
6	212.77	214.29	213.24	213.46	213.30	213.63	213.76	213.32	213.21	213.10	212.93	212.73
7	.76	213.77	.23	.36	.29	.60	.76	.32	.20	.09	.92	.72
8	.75	.47	.23	.33	.32	.58	.78	.31	.20	.08	.91	.72
9	.88	.35	.26	.31	.31	.61	.75	.30	.20	.07	.90	.71
10	213.31	.44	.28	.31	.31	.59	.71	.29	.20	.06	.90	.70
11	213.16	213.37	213.25	213.37	213.32	213.53	213.70	213.29	213.19	213.06	212.89	212.70
12	.13	.30	.24	.33	.38	.51	.68	.27	.19	.06	.89	.69
13	.10	.32	.26	.31	.38	.48	.68	.26	.19	.06	.88	.69
14	.08	.31	.26	.32	.42	.48	.61	.26	.19	.05	.87	.68
15	.06	.44	.32	.38	.41	.47	.57	.25	.18	.05	.87	.67
16	213.05	213.54	213.35	213.37	213.39	213.77	213.55	213.25	213.18	213.05	212.86	212.69
17	.08	.38	.30	.37	.40	.77	.52	.25	.18	.04	.86	.71
18	.14	.76	.27	.37	.47	.83	.50	.24	.18	.04	.85	.74
19	.13	.70	.26	.34	.63	216.31	.49	.24	.17	.04	.84	.71
20	.20	.78	.25	.37	.93	215.17	.47	.25	.17	.03	.84	.71
21	213.46	213.53	213.28	213.35	214.35	214.17	213.46	213.23	213.16	213.03	212.84	212.71
22	.36	.43	.42	.33	.84	213.95	.46	.23	.15	.03	.83	.71
23	.20	.44	.33	.31	215.11	.85	.44	.22	.14	.02	.82	.70
24	.17	.35	.52	.30	214.86	.76	.43	.22	.13	.01	.81	.70
25	.18	.31	.78	.29	.10	.71	.41	.22	.12	.00	.80	.69
26	213.36	213.29	213.29	213.29	214.00	213.95	213.41	213.22	213.11	212.99	212.79	212.69
27	.53	.27	.60	.32	.00	215.35	.40	.22	.10	.98	.78	213.19
28	.38	.26	.50	.51	213.96	.49	.39	.21	.10	.98	.78	.33
29	.30	.38	.43	.42	.83	214.57	.39	.21	.09	.98	.77	.27
30	.55	.31	.39	.37	.79	214.52	.38	.21	.09	.97	-	.22
31	-	.36	-	.34	.78	-	.38	-	.08	-	-	.19
Mean	213.07	213.45	213.34	213.35	213.69	214.01	213.60	213.27	213.17	213.04	212.86	212.80
Max.	213.55	214.29	213.93	213.51	215.11	216.31	214.00	213.37	213.21	213.12	212.97	213.33
Min.	212.75	213.22	213.21	213.29	213.29	213.47	213.38	213.21	213.08	212.97	212.77	212.67

WATER YEAR 1971 : Max. 216.31 m. Min. 212.67 m.

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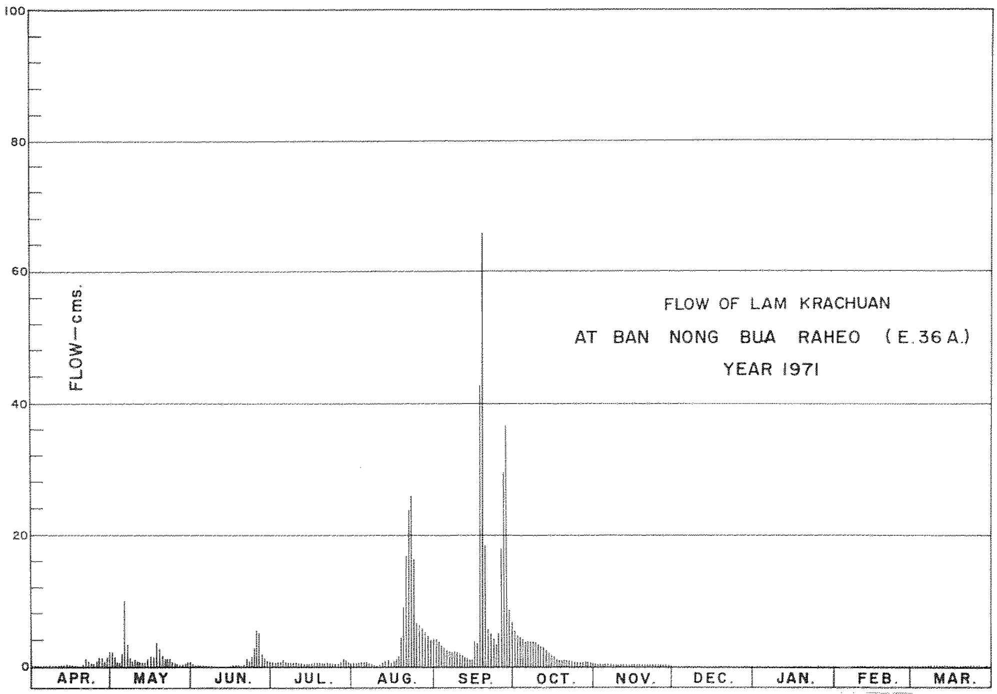


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	2.16	0.38	0.76	0.58	4.60	6.40	0.82	0.18	0.00	0.00	0.00
2		1.44	0.27	0.66	0.54	4.10	5.25	0.70	0.18			
3		0.21	0.24	0.58	0.76	3.43	4.81	0.70	0.18			
4		0.27	0.18	0.58	0.82	3.25	4.81	0.66	0.18			
5		0.34	0.18	1.37	0.58	3.16	4.30	0.62	0.18			
6		10	0.27	1.37	0.50	2.64	3.80	0.58	0.18			
7		3.90	0.24	0.76	0.46	2.40	3.80	0.58	0.15			
8		1.44	0.24	0.62	0.58	2.24	4.00	0.54	0.15			
9	0.00	0.76	0.34	0.54	0.54	2.48	3.70	0.50	0.15			
10	0.54	1.24	0.42	0.54	0.54	2.32	3.34	0.46	0.15			
11	0.03	0.82	0.30	0.82	0.58	1.86	3.25	0.42	0.12			
12	0.00	0.50	0.27	0.62	0.88	1.72	3.07	0.38	0.12			
13		0.58	0.34	0.54	0.88	1.51	3.07	0.34	0.12			
14		0.54	0.34	0.58	1.12	1.51	2.48	0.34	0.12			
15		1.24	0.58	0.88	1.06	1.44	2.16	0.30	0.09			
16		1.93	0.70	0.82	0.94	3.90	2.00	0.30	0.09			
17		0.88	0.50	0.82	1.00	3.90	1.79	0.30	0.09			
18		3.80	0.38	0.82	1.44	4.50	1.65	0.27	0.09			
19	0.00	3.25	0.34	0.66	2.64	66	1.58	0.27	0.06			
20	0.15	2.24	0.30	0.82	5.58	28	1.44	0.24	0.06			
21	0.37	1.86	0.42	0.70	11	8.60	1.37	0.24	0.03			
22	0.76	1.18	1.12	0.62	20	5.80	1.37	0.24	0.00			
23	0.15	1.24	0.62	0.54	26	4.70	1.24	0.21				
24	0.06	0.70	1.79	0.50	21	3.80	1.18	0.21				
25	0.09	0.54	4.00	0.46	7.65	3.34	1.06	0.21				
26	0.76	0.46	5.58	0.46	6.40	5.80	1.06	0.21				
27	1.86	0.38	2.40	0.58	6.40	33	1.00	0.21				0.00
28	0.88	0.34	1.65	1.72	5.92	37	0.94	0.18				0.62
29	0.50	0.88	1.18	1.12	4.50	15	0.94	0.18			0.00	0.38
30	2.00	0.54	0.94	0.82	4.10	7.91	0.88	0.18			–	0.00
31	–	0.76	–	0.66	4.00	–	0.88	–	0.00	0.00	–	0.00
Total	9.12	46.42	26.51	23.34	138.99	269.91	78.62	11.39	2.67	0.00	0.00	1.00
Mean	0.38	1.49	0.88	0.75	4.48	8.91	2.53	0.37	0.08	0.00	0.00	0.032
Max.	2.00	10	5.58	1.72	26	66	6.40	0.82	0.18	0.00	0.00	0.62
Min.	0.00	0.21	0.18	0.46	0.46	1.44	0.88	0.18	0.00	0.00	0.00	0.00
Runoff – mcm.	0.788	4.011	2.290	2.016	12.009	23.320	6.793	0.984	0.231	0.000	0.000	0.086

WATER YEAR 1971 : Max. 66 Min. 0.00 Mean 1.66 Annual Runoff 52,528 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	17.00	216.94	94				

Nam Yang at Ban Chom Thong, Kalasin (E. 46)

Location: Lat. 16°–36'–06" N., Long. 103°–58'–01" E., on left bank at highway bridge on Somdet–Kuchinarai, Amphoe Kuchinarai, Kalasin.

Drainage Area: 502 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 0.00 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: 1968–1971

Rating Operation:

Period of Rating: 1969–1971
Rated by Float: –
Rated by Current Meter: 1969–1971

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

Overbank Flow Conditions: Overbank flow starts at elevation + 2.60 m. (A.D.) and including for flow computation.

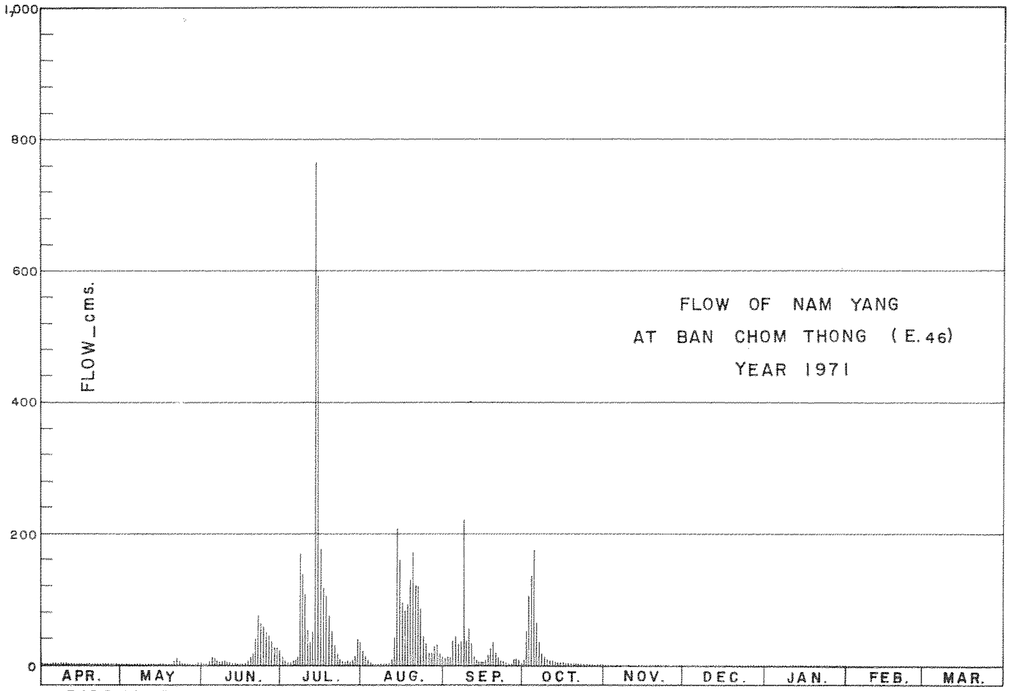
General Description: Records good. Stage–discharge relationship used is defined by discharge measurements made during 1969. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: Stream gaging station ending February 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	-0.54	-0.49	-0.19	2.38	2.73	2.28	2.12	-0.13	-0.49	-0.52		
2	-0.49	-0.47	-0.19	1.57	.19	.35	3.68	-0.19	.45	.55		
3	-0.45	-0.49	0.80	0.83	1.51	.62	.76	-0.21	.46	.55		
4	-0.47	-0.50	2.21	.72	0.71	3.21	.93	-0.25	.55	.49		
5	-0.46	-0.49	2.28	1.57	.12	.30	.67	-0.30	.55	.55		
6	-0.46	-0.43	1.72	1.54	0.17	3.10	3.33	-0.30	-0.55	-0.53		
7	-0.47	-0.49	0.81	2.52	.35	3.13	2.98	-0.33	.48	.54		
8	-0.49	-0.50	1.23	3.91	.20	3.17	.60	-0.33	.50	.54		
9	-0.49	-0.46	.32	.82	.22	3.72	.23	-0.39	.51	.56		
10	-0.49	-0.48	0.83	.55	.40	3.42	1.78	-0.38	.52	.53		
11	-0.49	-0.41	0.41	3.31	0.88	3.14	1.49	-0.38	-0.52	-0.61		
12	-0.49	-0.17	.27	.15	2.27	2.66	.21	-0.41	.51	.46		
13	-0.48	-0.36	-0.11	.35	3.66	1.78	0.91	-0.41	.52	.49		
14	-0.48	-0.45	-0.17	4.69	4.00	.00	.63	-0.42	.41	.56		
15	-0.48	-0.52	-0.19	.21	3.83	.11	.41	-0.46	.36	.53		
16	-0.47	-0.50	-0.20	3.83	3.67	1.82	0.26	-0.44	-0.45	-0.52		
17	-0.51	-0.50	-0.24	.71	.61	2.35	.17	-0.47	.45	.55		
18	-0.55	-0.29	+1.32	.71	.68	.97	.05	-0.38	.44	.51		
19	-0.42	-0.38	2.36	.56	.88	3.12	-0.01	-0.21	.42	.49		
20	-0.43	-0.40	.77	.36	.92	2.93	-0.11	-0.19	.42	.47		
21	-0.45	1.65	3.30	3.19	3.87	2.41	-0.19	-0.21	-0.47	-0.54		
22	-0.48	2.09	.56	2.75	.69	1.60	-0.18	-0.33	.45	.41		
23	-0.47	1.31	.49	1.84	.42	0.92	-0.24	-0.54	.46	.44		
24	-0.47	0.25	.45	.10	.24	.48	-0.22	-0.60	.51	.45		
25	-0.50	-0.14	.36	.25	.07	.25	-0.22	-0.59	.47	.43		
26	-0.57	-0.23	3.29	1.19	2.77	0.35	-0.04	-0.59	-0.46	-0.44		
27	-0.56	-0.23	.17	.45	.80	2.02	+ .01	-0.58	.45	.45		
28	-0.54	-0.19	.02	2.03	3.05	.04	.00	-0.59	.46	.46		
29	-0.53	-0.21	.02	.82	.08	1.45	.00	-0.49	.52	.47		
30	-0:51	0.54	2.88	3.21	2.80	.17	-0.05	-0.52	.44	.58		
31	–	.50	–	.13	.51	–	-0.08	–	.47	-0.49		
Mean	-0.49	-0.52	1.74	2.68	2.46	2.19	1.26	-0.39	-0.47	-0.51		
Max.	-0.42	2.09	3.56	4.69	4.00	3.77	3.93	-0.13	-0.36	-0.41		
Min.	-0.57	-0.52	-0.24	0.72	0.12	0.25	-0.24	-0.60	-0.55	-0.56		

WATER YEAR 1971 : Max. 4.69 m. Min. - 0.60 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.22	0.82	13	18	12	11	0.94	0.22	0.18		
2	0.22	0.26	0.82	7.95	12	13	* 98	0.82	0.30	0.15		
3	0.30	0.22	4.30	4.42	7.65	15	*119	0.78	0.28	0.15		
4	0.26	0.20	12	3.98	3.94	* 38	*176	0.70	0.15	0.22		
5	0.28	0.22	12	7.95	1.58	* 45	* 96	0.60	0.15	0.15		
6	0.28	0.34	8.70	7.80	1.78	* 32	* 47	0.60	0.15	0.17		
7	0.26	0.22	4.34	14	2.50	* 33	* 25	0.54	0.24	0.16		
8	0.22	0.20	6.25	*168	1.90	*121	15	0.54	0.20	0.16		
9	0.22	0.28	6.70	*137	1.98	37	12	0.42	0.19	0.14		
10	0.22	0.24	4.42	* 72	2.70	* 56	9.00	0.44	0.18	0.17		
11	0.22	0.38	2.74	* 46	4.62	* 34	7.55	0.44	0.18	0.09		
12	0.22	0.86	2.18	* 34	12	* 16	6.15	0.38	0.19	0.28		
13	0.24	0.48	0.98	* 59	93	9.00	4.74	0.38	0.18	0.22		
14	0.24	0.30	0.86	*762	204	5.10	3.62	0.36	0.38	0.14		
15	0.24	0.18	0.82	*332	140	5.15	2.74	0.28	0.48	0.17		
16	0.26	0.20	0.80	*144	96	9.22	2.14	0.32	0.30	0.18		
17	0.19	0.20	0.72	*107	83	13	1.78	0.26	0.30	0.15		
18	0.15	0.62	6.70	*106	98	* 25	1.35	0.44	0.32	0.19		
19	0.36	0.44	13	* 74	157	* 33	1.18	0.78	0.36	0.22		
20	0.34	0.40	* 18	* 50	171	* 24	0.98	0.82	0.36	0.26		
21	0.30	8.35	* 45	* 37	121	13	0.82	0.78	0.26	0.16		
22	0.24	11	* 74	* 18	100	8.10	0.84	0.54	0.30	0.38		
23	0.26	6.65	* 63	9.34	56	4.78	0.72	0.16	0.28	0.32		
24	0.26	2.10	* 59	5.60	41	3.02	0.76	0.10	0.19	0.30		
25	0.20	0.92	* 50	6.35	30	2.10	0.76	0.11	0.26	0.34		
26	0.13	0.74	* 43	6.05	18	2.50	1.12	0.11	0.28	0.32		
27	0.14	0.74	* 35	7.35	19	10	1.23	0.12	0.30	0.30		
28	0.16	0.82	* 27	11	29	11	1.20	0.11	0.28	0.28		
29	0.17	0.78	* 27	* 19	30	7.35	1.20	0.22	0.18	0.26		
30	0.19	3.26	* 22	* 38	19	5.95	1.10	0.18	0.32	0.12		
31	–	3.10	–	33	14	–	1.04	–	0.26	0.22		
Total	6.93	44.92	552.15	2,340.79	1,589.65	643.27	651.02	13.27	8.02	6.55		
Mean	0.23	1.45	18.4	75.5	51.3	21.4	21.0	0.44	0.26	0.21		
Max.	0.36	11	74	762	204	121	176	0.94	0.48	0.38		
Min.	0.13	0.18	0.72	3.98	1.58	2.10	0.72	0.10	0.15	0.14		
Runoff - mcm.	0.599	3.881	47.706	202.244	137.346	55.578	56.248	1.146	0.693	0.566		

WATER YEAR 1971 : Max. 762 Min. 0.10 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 14	16.00	5.00	1,020				

CHI RIVER BASIN

Lam Chi Long at Ban Kut Yang, Chaiyaphum (E. 49)

Location: Lat. 15°-49'-31" N., Long. 101°-51'-01" E., on left bank at Ban Kut Yang, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 265 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 196.39 m. (M.S.L.)

Bench Mark: B.M. - E. 49

Location: In the vicinity of E. 49 station office.
Elevation: + 205.115 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-1970
Rated by Float: -
Rated by Current Meter: 1967-1970

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

Overbank Flow Conditions: Flow by-pass channel starts at elevation + 201.70 m. (M.S.L.) and including for flow computation.

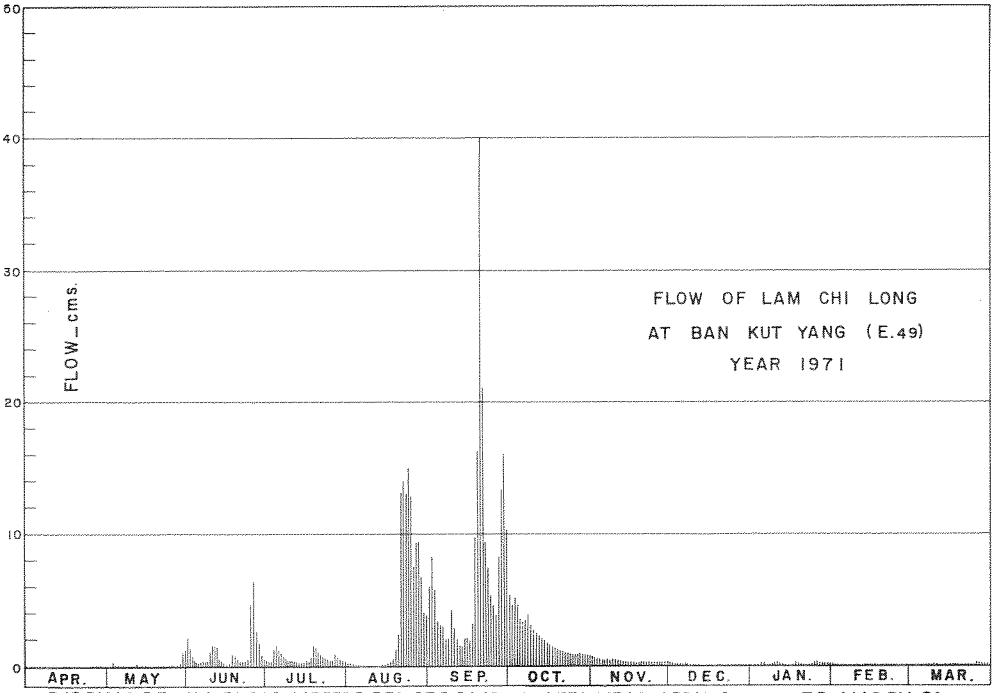
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made in 1970. By-pass channel flow obtained by using stage-discharge relationship which was determined from discharge measurements made in 1969. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.73	198.73	200.14	199.32	199.10	201.55	201.27	199.51	199.20	198.99	199.10	198.99
2	.73	.73	199.82	.23	.07	.87	200.99	.49	.15	.99	.08	.98
3	.73	.74	.45	.21	.02	.30	201.06	.46	.15	199.04	.06	.97
4	.73	199.19	.23	.87	.01	200.59	.06	.44	.14	.07	.05	.97
5	.73	198.94	.12	.92	198.96	.49	200.80	.41	.14	.13	.04	.96
6	198.73	198.94	199.18	199.75	198.91	200.43	200.59	199.39	199.10	199.11	199.04	198.97
7	.73	.93	.31	.59	.89	.12	.68	.37	.13	.04	.03	.95
8	.73	.85	.19	.43	.91	.11	.75	.36	.09	.04	.03	.95
9	.73	.82	.37	.35	.90	.85	.54	.34	.08	.05	.03	.95
10	.73	.80	.93	.35	.87	.44	.37	.33	.07	.19	.03	.95
11	198.74	198.79	199.98	199.26	198.86	200.18	200.31	199.31	199.05	199.17	199.02	198.95
12	.73	.79	.89	.20	.88	.00	.25	.30	.06	.13	.02	.95
13	.73	199.09	.37	.16	.90	199.86	.19	.28	.03	.13	.02	.97
14	.73	198.87	.17	.11	.94	200.13	.07	.28	.03	.06	.02	.97
15	.75	.84	.09	.19	.94	.13	.01	.26	.01	198.86	.03	.96
16	198.73	198.78	199.06	199.38	199.03	200.04	199.94	199.23	199.05	198.88	199.08	198.96
17	.73	.78	.08	.26	.28	.54	.88	.25	.64	199.11	.07	.97
18	.73	.77	.59	.54	.33	*202.06	.83	.22	.01	.17	.07	.97
19	.73	.76	.60	.95	.67	* .93	.79	.21	.01	.14	.06	.96
20	.73	.78	.42	.79	*201.82	*203.15	.76	.23	.00	.10	.05	.96
21	198.73	198.86	199.25	199.61	*202.41	*202.59	199.73	199.26	199.02	199.06	199.04	198.97
22	.73	.91	.25	.52	* .54	.00	.69	.27	.02	.04	.04	.99
23	.73	.83	.29	.43	* .37	201.53	.68	.28	.02	.10	.05	.99
24	.73	.78	.30	.32	* .62	.20	.64	.26	.02	.13	.04	.98
25	.73	.77	200.99	.29	* .40	200.95	.62	.23	198.97	.18	.02	199.00
26	198.73	198.77	201.42	199.24	*201.70	200.79	199.60	199.20	199.00	199.19	199.01	199.12
27	.74	.77	200.51	.63	*202.04	*202.19	.59	.22	.07	.16	.01	.12
28	.73	.76	.02	.48	* .05	* .66	.65	.20	.06	.15	.00	.09
29	.73	.89	199.62	.33	201.33	* .53	.59	.19	.02	.14	198.99	.07
30	.73	199.67	.41	.20	200.77	*201.82	.59	.27	.00	.13	-	.22
31	-	.80	-	.13	.69	-	.57	-	.04	.11	-	.14
Mean	198.73	198.89	199.60	199.42	200.13	201.27	200.13	199.30	199.06	199.09	199.04	199.00
Max.	198.75	199.80	201.42	199.95	202.62	203.15	201.27	199.51	199.20	199.19	199.10	199.22
Min.	198.73	198.73	199.12	199.13	198.87	199.86	199.57	199.19	198.97	198.86	198.99	198.95

WATER YEAR 1971 : Max. 203.15 m. Min. 198.73 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.000	2.10	0.43	0.200	6.87	5.73	0.72	0.30	0.09	0.20	0.092
2		0.000	1.34	0.33	0.170	8.35	4.66	0.68	0.25	0.09	0.18	0.084
3		0.000	0.62	0.31	0.120	5.85	4.91	0.64	0.25	0.14	0.16	0.076
4		0.290	0.33	1.44	0.110	3.37	5.01	0.61	0.24	0.17	0.15	0.076
5		0.052	0.22	1.55	0.068	3.07	4.00	0.56	0.24	0.23	0.14	0.068
6		0.052	0.28	1.20	0.028	2.89	3.37	0.53	0.20	0.21	0.14	0.076
7		0.044	0.41	0.88	0.018	2.05	3.64	0.50	0.23	0.14	0.13	0.060
8		0.010	0.29	0.59	0.028	2.00	3.85	0.49	0.19	0.14	0.13	0.060
9		0.000	0.50	0.47	0.020	4.17	3.22	0.46	0.18	0.14	0.13	0.060
10		0.000	1.57	0.47	0.014	2.92	2.71	0.44	0.17	0.29	0.13	0.060
11		0.000	1.70	0.36	0.012	2.20	2.53	0.41	0.15	0.27	0.12	0.060
12		0.000	1.48	0.30	0.016	1.75	2.37	0.40	0.16	0.23	0.12	0.060
13		0.190	0.50	0.26	0.020	1.42	2.22	0.38	0.13	0.23	0.12	0.076
14		0.014	0.27	0.21	0.052	2.07	1.92	0.38	0.13	0.16	0.12	0.076
15		0.000	0.19	0.29	0.052	2.07	1.77	0.36	0.11	0.012	0.13	0.068
16			0.16	0.52	0.13	1.85	1.60	0.33	0.15	0.015	0.18	0.068
17			0.18	0.36	0.38	3.22	1.46	0.35	0.14	0.21	0.17	0.076
18			0.88	0.78	0.44	9.54	1.36	0.32	0.11	0.27	0.17	0.076
19			0.90	1.62	1.04	22	1.28	0.31	0.11	0.24	0.16	0.068
20		0.000	0.58	1.28	8.13	40	1.22	0.33	0.10	0.20	0.15	0.068
21		0.012	0.35	0.92	13	15	1.16	0.36	0.12	0.16	0.14	0.076
22		0.028	0.39	0.74	14	9.10	1.08	0.37	0.12	0.14	0.14	0.096
23		0.006	0.39	0.59	13	6.78	1.06	0.38	0.12	0.20	0.15	0.092
24			0.40	0.45	15	5.45	0.98	0.36	0.12	0.23	0.14	0.084
25			4.66	0.39	13	4.52	0.94	0.33	0.08	0.28	0.12	0.100
26			6.33	0.34	7.55	3.97	0.90	0.30	0.10	0.29	0.11	0.220
27			3.13	0.96	9.38	10	0.88	0.32	0.17	0.26	0.11	0.200
28			1.80	0.67	9.40	16	1.00	0.30	0.16	0.25	0.10	0.190
29		0.006	0.94	0.44	5.97	14	0.88	0.29	0.12	0.24	0.092	0.170
30	0.00	1.04	0.56	0.30	3.91	8.13	0.88	0.37	0.10	0.23	–	0.320
31	–	1.30	–	0.23	3.67	–	0.84	–	0.14	0.21	–	0.240
Total	0.00	3.038	33.45	19.66	118.928	220.61	69.43	12.58	4.89	5.968	4.032	3.192
Mean	0.00	0.098	1.11	0.63	3.84	7.35	2.24	0.42	0.16	0.192	0.139	0.103
Max.	0.00	1.30	6.33	1.44	15	40	5.73	0.72	0.30	0.29	0.20	0.32
Min.	0.00	0.00	0.22	0.23	0.01	1.42	0.84	0.29	0.08	0.01	0.09	0.06
Runoff - mcm.	0.000	0.263	2.890	1.699	10.275	19.060	5.999	1.087	0.422	0.516	0.348	0.276

WATER YEAR 1971 : Max. 40 Min. 0.00 Mean 1.35 Annual Runoff 42.835 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	8.00	150.27	313				

CHI RIVER BASIN

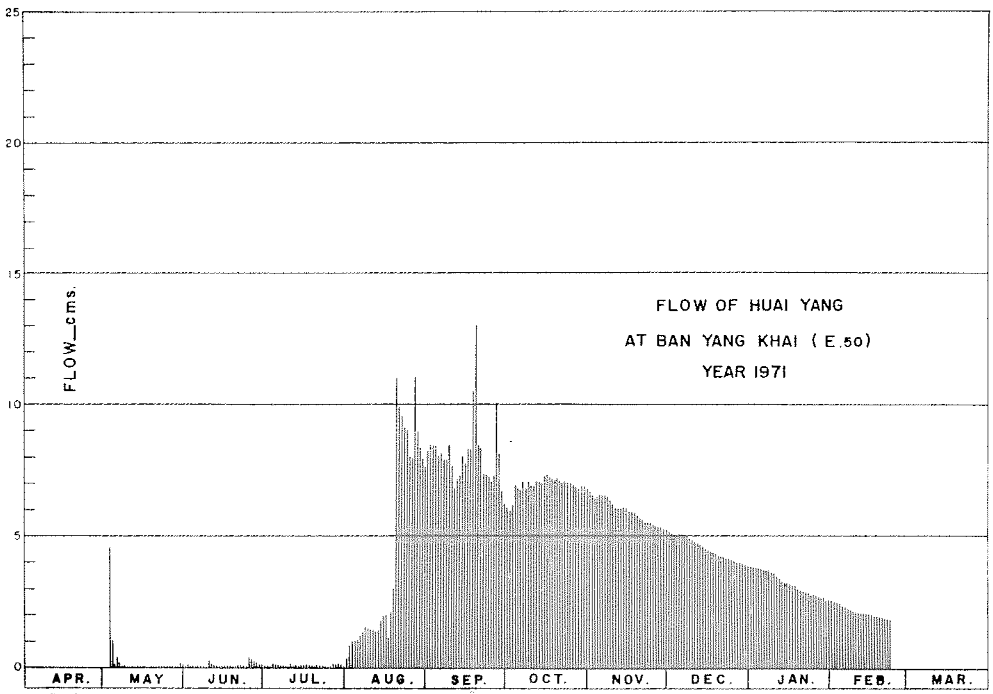
Huai Yang at Ban Yang Khai, Chaiyaphum (E.50)

Location:	Lat. 15°-49'-32" N., Long. 101°-51'56" E., on left bank at Ban Yang Khai, Amphoe Ban Khwao, Chaiyaphum.
Drainage Area:	41 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 198.61 m. (M.S.L.)
Bench Mark:	B.M. - R.I.D.
Location:	Along the measuring line 10 meters from the left bank.
Elevation:	+ 207.103 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:	1967-1971
Rating Operation:	
Period of Rating:	1968-1970
Rated by Float:	-
Rated by Current Meter:	1968-1970
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. The data presented is made by discharge measurements during 1970. Flow regulated by Diversion Weir.
Remarks:	Missing Record for drought period. Ending gage record on February 24, 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		-	200.09	200.11	200.39	202.42	202.00	202.10	201.82	201.54	201.23	
2		-	.08	.08	.65	.44	201.98	.08	.81	.53	.22	
3		201.71	.08	.09	.72	.44	202.02	.08	.80	.53	.21	
4		200.71	.09	.24	.74	.43	.16	.09	.79	.53	.19	
5		.16	.09	.18	.76	.37	.13	.09	.81	.52	.17	
6		200.41	200.10	200.14	200.82	202.38	202.14	202.09	201.81	201.52	201.16	
7		.11	.14	.11	.89	.33	.18	.09	.80	.51	.14	
8		.06	.07	.08	.91	.34	.14	.07	.78	.50	.12	
9		.04	.06	.08	.90	.43	.18	.04	.77	.48	.12	
10		.01	.32	.14	.88	.27	.15	.01	.75	.47	.10	
11		199.99	200.19	200.17	200.88	202.13	202.17	202.00	201.74	201.46	201.10	
12		.96	.15	.14	.84	.20	.19	.00	.73	.43	.10	
13		.96	.11	.13	.89	.23	.17	.00	.72	.42	.09	
14		.96	.10	.13	201.02	.35	.19	.00.	.70	.41	.08	
15		.96	.06	.16	.06	.30	.23	201.99	.69	.40	.08	
16		199.95	200.06	200.15	201.06	202.41	202.21	201.97	201.67	201.39	201.07	
17		.95	.10	.16	.09	.41	.21	.97	.66	.38	.06	
18		.95	.08	.19	.20	.75	.20	.96	.65	.37	.06	
19		.95	.06	.17	.44	203.12	.20	.94	.64	.34	.05	
20		.94	.06	.16	202.82	202.41	.20	.91	.63	.33	.04	
21		199.91	200.06	200.14	202.67	202.41	202.18	201.90	201.63	201.32	201.03	
22		.89	.06	.10	.63	.23	.18	.89	.61	.32	.02	
23		.89	.05	.06	.55	.23	.19	.89	.60	.30	.02	
24		.88	.05	.06	.53	.20	.18	.88	.60	.30		
25		.88	.41	.05	.35	.18	.16	.87	.58	.29		
26		199.87	200.31	200.09	202.35	202.26	202.15	201.86	201.57	201.28		
27		.87	.29	.24	.90	.69	.14	.86	.57	.27		
28		.86	.23	.18	.52	.27	.16	.85	.57	.26		
29		200.11	.19	.20	.41	.10	.15	.84	.56	.26		
30		.27	.15	.19	.34	.02	.14	.83	.55	.24		
31		.15	-	.14	.29	-	.12	-	.55	.24		
Mean			200.12	200.14	201.53	202.35	202.15	201.97	201.68	201.39		
Max.		201.71	200.41	200.24	202.82	203.12	202.20	202.10	201.82	201.54		
Min.			200.08	200.05	200.39	202.02	202.00	201.83	201.55	201.24		

WATER YEAR 1971 : Max. 203.12 m. Min. 200.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		–	0.045	0.055	0.33	8.36	6.05	6.60	5.15	3.83	2.55	
2		–	0.040	0.040	0.85	8.47	5.95	6.49	5.10	3.78	2.52	
3		4.60	0.040	0.045	1.00	8.47	6.11	6.49	5.05	3.78	2.48	
4		0.975	0.045	0.130	1.05	8.41	6.93	6.54	5.00	3.78	2.41	
5		0.080	0.045	0.090	1.10	8.08	6.76	6.54	5.10	3.74	2.34	
6		0.370	0.050	0.070	1.26	8.14	6.82	6.54	5.10	3.74	2.31	
7		0.055	0.070	0.055	1.47	7.86	7.04	6.54	5.05	3.69	2.24	
8		0.030	0.035	0.040	1.53	7.92	6.82	6.43	4.95	3.65	2.17	
9		0.020	0.030	0.040	1.50	8.41	7.04	6.27	4.90	3.56	2.17	
10		0.005	0.230	0.070	1.44	7.53	6.87	6.10	4.80	3.51	2.10	
11		0.000	0.095	0.085	1.44	6.76	6.98	6.05	4.75	3.47	2.10	
12			0.075	0.070	1.32	7.15	7.09	6.05	4.70	3.33	2.10	
13			0.055	0.065	1.47	7.31	6.98	6.05	4.65	3.29	2.07	
14			0.050	0.065	1.86	7.97	7.09	6.05	4.55	3.24	2.04	
15			0.030	0.080	1.98	7.70	7.31	6.00	4.50	3.20	2.04	
16			0.030	0.075	1.98	8.30	7.20	5.90	4.41	3.16	2.01	
17			0.050	0.080	1.07	8.30	7.20	5.90	4.37	3.12	1.98	
18			0.040	0.095	2.45	10	7.15	5.85	4.32	3.08	1.98	
19			0.060	0.085	3.38	13	7.15	5.75	4.28	2.96	1.95	
20			0.060	0.080	11	8.30	7.15	5.60	4.23	2.92	1.92	
21			0.060	0.070	9.85	8.30	7.04	5.55	4.23	2.88	1.89	
22			0.060	0.050	9.59	7.31	7.04	5.50	4.14	2.88	1.86	
23			0.025	0.030	9.10	7.31	7.09	5.50	4.10	2.80	1.86	
24			0.025	0.030	8.98	7.15	7.04	5.45	4.10	2.80		
25			0.370	0.025	7.97	7.04	6.93	5.40	4.01	2.76		
26			0.215	0.045	7.97	7.48	6.87	5.35	3.96	2.73		
27			0.190	0.140	11	9.98	6.82	5.35	3.96	2.69		
28		0.000	1.130	0.090	8.92	7.53	6.93	5.30	3.96	2.66		
29		0.055	0.095	0.100	8.30	6.60	6.87	5.25	3.92	2.66		
30		0.170	0.075	0.095	7.92	6.16	6.82	5.20	3.87	2.59		
31		0.075	–	0.070	7.64	–	6.71	–	3.87	2.59		
Total		6.435	2.420	2.160	136.72	241.30	213.90	177.59	139.08	98.87		
Mean		0.207	0.080	0.069	4.41	8.04	6.90	5.91	4.48	3.18		
Max.		4.60	0.370	0.140	11	13	7.15	6.60	5.15	3.83		
Min.		0.00	0.040	0.025	0.33	6.16	6.05	5.20	3.87	2.59		
Runoff - mcm.		0.556	0.209	0.186	11.813	20.848	18.481	15.344	12.016	8.542		

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	06.00	203.61	16				

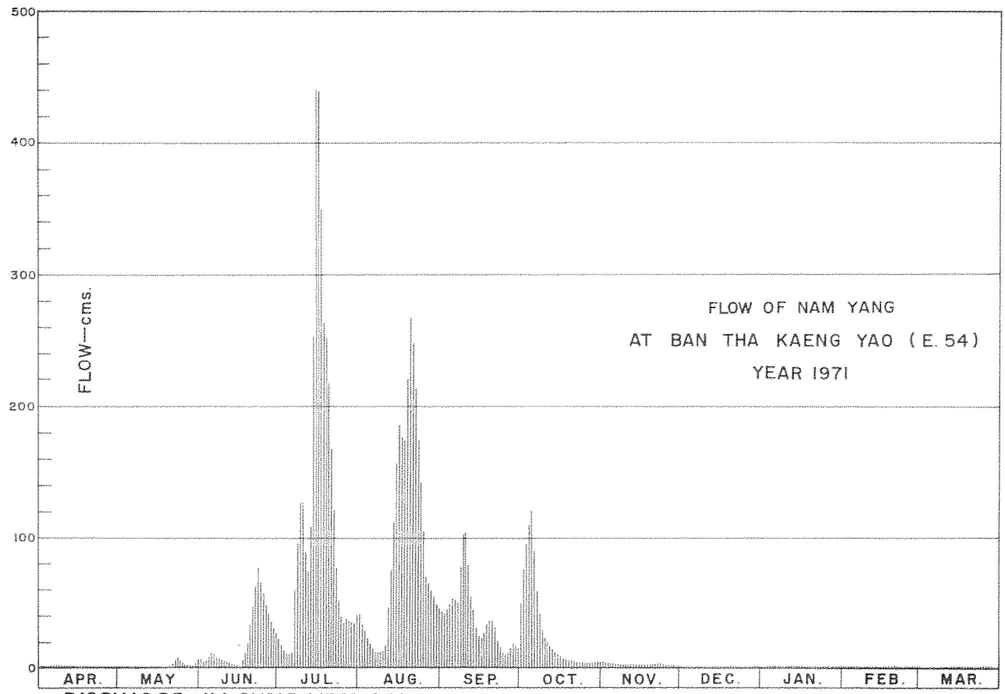
Nam Yang at Ban Tha Kaeng Yao, Kalasin (E. 54)

Location:	Lat. 15°–26'–29" N., Long. 104°–02'–07" E., on left bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR damsite, Amphoe Kuchinarai, Kalasin.
Drainage Area:	847 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. E. 54
Location:	About 40 meters from the left bank along the vertical staff gage line.
Elevation:	+ 9.425 m. (A.D.)
Gage Reading Frequency:	5–time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1969 to date
Rating Operation:	
Period of Rating:	1969 to date
Rated by Float:	–
Rated by Current Meter:	1969 to date
Stability of Channel Regimes:	Fairly stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow starts at elevation + 7.70 m. (A.D.) and including for flow computation.
General Description:	Records good. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.52	0.74	1.39	2.41	3.39	3.40	3.39	1.22	0.89	0.82	0.75	0.63
2	.57	.62	.22	.11	.15	.25	4.39	.17	.87	.81	.71	.62
3	.69	.56	.39	1.78	2.83	.39	5.15	.15	.86	.80	.75	.60
4	.65	.54	.73	.69	.49	.61	.63	.13	.87	.79	.75	.62
5	.61	.50	.89	.64	.19	.85	6.04	.09	.86	.76	.71	.59
6	0.59	0.55	1.84	1.75	2.02	3.84	5.32	1.04	0.84	0.80	0.72	0.62
7	.56	.69	.62	4.07	1.94	.76	4.25	.03	.81	.76	.73	.61
8	.52	.65	.40	5.31	.90	4.24	3.51	0.99	.82	.78	.77	.60
9	.53	.59	.46	6.25	.84	5.54	2.99	.97	.82	.75	.75	.65
10	.52	.55	.46	.23	.89	.58	.62	.96	.80	.74	.66	.63
11	0.52	0.52	1.31	5.08	2.17	4.63	2.35	0.95	0.79	0.73	0.64	0.60
12	.51	.50	.16	4.54	3.30	3.93	.18	.94	.77	.73	.62	.67
13	.51	.53	.06	5.41	4.51	.43	.00	.95	.81	.73	.62	.64
14	.50	.54	.01	7.82	6.06	2.98	1.84	.95	.76	.71	.60	.62
15	.50	.60	0.99	9.04	7.33	.60	.68	.98	.79	.71	.88	.64
16	0.53	0.57	0.96	9.03	7.67	2.42	1.58	0.94	0.77	0.70	0.75	0.65
17	.58	.53	1.15	8.62	.41	.51	.49	.93	.74	.67	.68	.65
18	.56	.65	.80	.39	.36	.89	.45	.92	.82	.68	.71	.64
19	.53	.53	2.30	.28	8.03	3.15	.40	.93	.78	.71	.67	.64
20	.50	.66	3.20	7.92	.43	.21	.32	.93	.76	.73	.63	.62
21	0.47	1.11	4.06	6.97	8.34	3.00	1.27	0.92	0.80	0.70	0.66	0.59
22	.47	.45	.36	5.49	.06	2.63	.23	.92	.78	.69	.70	.58
23	.47	.58	.66	4.37	7.59	.16	.20	.93	.76	.68	.68	.59
24	.48	.40	.23	3.63	6.57	1.84	.14	.93	.80	.69	.66	.64
25	.48	.10	3.90	.22	5.28	.66	.13	.92	.84	.74	.65	.75
26	0.52	0.97	3.66	3.05	4.42	1.68	1.17	0.90	0.86	0.74	0.65	0.70
27	.51	.96	.37	.24	.20	.89	.23	.90	.81	.67	.65	.69
28	.49	.90	.09	.16	.07	2.27	.24	.89	.82	.73	.63	.65
29	.48	.86	2.76	.07	3.94	.22	.25	.89	.89	.71	.64	.66
30	.63	1.15	.57	.06	.80	.07	.25	.88	.88	.75	–	.64
31	–	.52	–	.32	.54	–	.21	–	.83	.74	–	.66
Mean	0.53	0.79	2.23	4.84	4.70	3.12	2.38	0.97	0.82	0.73	0.69	0.63
Max.	0.69	1.58	4.66	9.04	8.43	5.58	6.04	1.22	0.89	0.82	0.88	0.75
Min.	0.47	0.50	0.96	1.64	1.84	1.66	1.13	0.88	0.76	0.67	0.60	0.58

WATER YEAR 1971 : Max. 9.04 m. Min. 0.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.60	5.70	20	41	41	41	4.00	1.44	1.02	0.65	0.26
2	0.17	0.24	4.00	15	35	33	67	3.56	1.32	0.92	0.45	0.24
3	0.38	0.16	5.70	11	29	41	89	3.40	1.26	0.90	0.65	0.20
4	0.30	0.14	10	9.46	22	46	105	3.24	1.32	0.85	0.65	0.24
5	0.22	0.10	12	8.76	17	52	120	2.92	1.26	0.70	0.45	0.19
6	0.19	0.15	11	10	14	52	95	2.52	1.14	0.90	0.50	0.24
7	0.16	0.38	8.48	58	13	50	63	2.44	0.96	0.70	0.55	0.22
8	0.12	0.30	5.80	94	12	63	44	2.13	1.02	0.80	0.75	0.20
9	0.13	0.19	6.52	127	11	102	32	1.99	1.02	0.65	0.65	0.30
10	0.12	0.15	6.52	127	12	103	24	1.92	0.90	0.60	0.32	0.26
11	0.12	0.12	4.90	87	16	74	19	1.85	0.85	0.55	0.28	0.20
12	0.11	0.10	3.48	71	39	54	17	1.78	0.75	0.55	0.24	0.34
13	0.11	0.13	2.68	98	70	42	14	1.85	0.96	0.55	0.24	0.28
14	0.10	0.14	2.28	*193	120	32	11	1.85	0.70	0.45	0.20	0.24
15	0.10	0.20	2.13	*440	171	24	9.32	2.06	0.85	0.45	1.38	0.28
16	0.13	0.17	1.92	*435	185	21	7.96	1.78	0.75	0.40	0.65	0.30
17	0.18	0.13	3.40	*305	174	22	6.88	1.71	0.60	0.34	0.36	0.30
18	0.16	0.30	11	*260	172	30	6.40	1.64	1.02	0.36	0.45	0.28
19	0.13	0.13	19	*243	*212	35	5.80	1.71	0.80	0.45	0.34	0.28
20	0.10	0.32	37	*200	*267	37	5.00	1.71	0.70	0.55	0.26	0.24
21	0.07	3.08	58	156	*252	32	4.50	1.64	0.90	0.40	0.32	0.19
22	0.07	6.40	66	100	*215	25	4.10	1.64	0.80	0.38	0.40	0.18
23	0.07	7.96	75	66	182	16	3.80	1.71	0.70	0.36	0.36	0.19
24	0.08	5.80	62	46	140	11	3.32	1.71	0.90	0.38	0.32	0.28
25	0.08	3.00	53	37	93	9.04	3.24	1.64	1.14	0.60	0.30	0.65
26	0.12	1.90	47	33	68	9.32	3.56	1.50	1.26	0.60	0.30	0.40
27	0.11	1.92	40	37	62	12	4.10	1.50	0.96	0.34	0.30	0.38
28	0.09	1.50	34	36	58	18	4.20	1.44	1.02	0.55	0.26	0.30
29	0.08	1.26	27	34	54	17	4.30	1.44	1.44	0.45	0.28	0.32
30	0.26	3.40	23	33	51	15	4.30	1.38	1.38	0.65	–	0.28
31	–	7.24	–	39	44	–	3.90	–	1.08	0.60	–	0.32
Total	4.18	47.70	648.51	3,429.22	2,851	1,123.36	825.68	61.66	31.20	18.04	12.86	8.58
Mean	1.14	1.54	21.6	111	91.9	37.4	26.6	2.05	1.01	0.58	0.44	0.28
Max.	0.38	7.96	75	440	267	103	120	4.00	1.44	1.02	1.38	0.65
Min.	0.07	0.10	1.92	8.76	11	9.04	3.24	1.38	0.70	0.34	0.20	0.18
Runoff - mcm.	0.361	4.121	56.031	296.285	246.326	97.058	71.339	5.327	2.696	1.559	1.111	0.741

WATER YEAR 1971 : Max. 440 Min. 0.07 Mean 24.7 Annual Runoff 782.956 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.15	23.00	9.34	604				

MUN RIVER BASIN

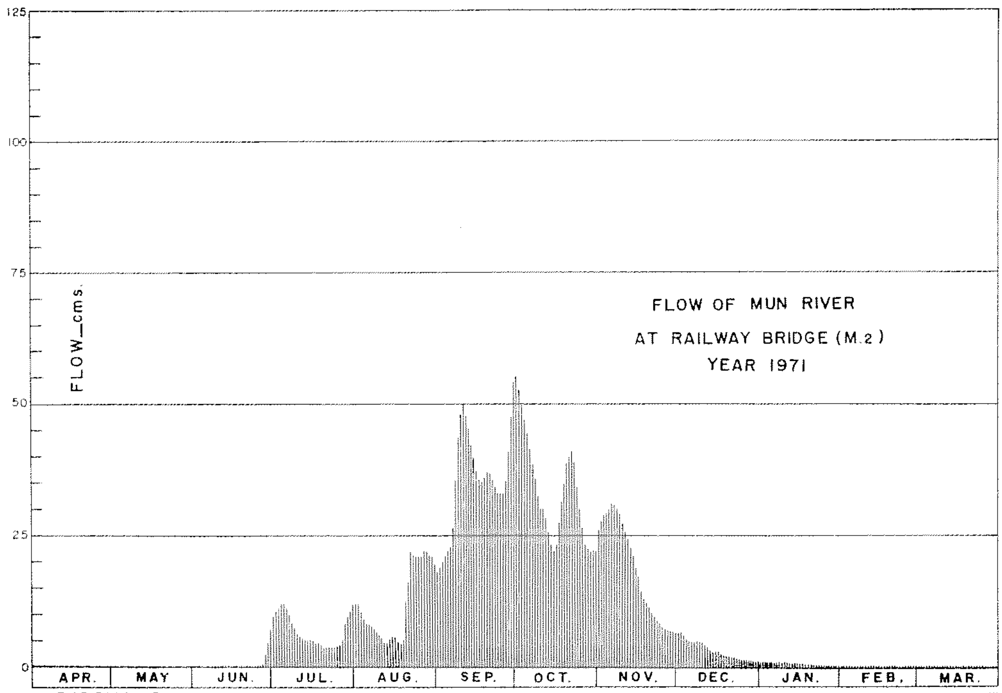
Mun River at railway bridge, Nakhon Ratchasima (M.2)

Location:	Lat. 15°-00'-03" N., Long. 105°-15'-57" E., on right bank about 100 meters west side 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:	Water-stage recorder.
Zero Gage at Bottom at:	+ 157.85 m. (M.S.L.)
Bench Mark:	B.M. - H.S. R.I.D.
Location:	At the foot of the ladder of automatic gage building.
Elevation:	+ 165.802 m. (M.S.L.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1950 to date
Rating Operation:	
Period of Rating:	1960, 1969-1970
Rated by Float:	-
Rated by Current Meter:	1960, 1969-1970
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1969. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.00	159.00	158.97	160.54	160.69	161.09	163.14	161.58	160.24	159.49	159.14	159.05
2	.02	.00	.99	.64	.66	.12	.03	.67	.27	.44	.13	.01
3	.02	158.97	159.05	.65	.58	.23	162.90	.72	.19	.44	.13	.01
4	.02	.98	.06	.71	.49	.29	.71	.76	.16	.44	.12	.01
5	.01	.97	.06	.69	.42	.34	.54	.82	.11	.43	.11	.00
6	159.00	159.00	159.06	160.64	160.36	161.40	162.43	161.88	160.09	159.40	159.10	159.01
7	.00	158.99	.04	.56	.37	.64	.31	.88	.09	.40	.08	.01
8	.00	.96	.04	.42	.34	162.30	.12	.81	.11	.41	.09	.02
9	158.99	.96	.03	.32	.27	.67	161.90	.74	.11	.41	.09	.01
10	.98	.97	.00	.27	.18	.80	.82	.64	.07	.39	.13	.00
11	158.98	158.97	158.99	160.21	160.13	162.87	161.78	161.54	160.03	159.39	159.11	158.98
12	.97	.96	.96	.14	.09	.71	.66	.47	159.98	.41	.08	.99
13	.98	.96	.93	.13	.06	.64	.53	.39	.89	.33	.07	159.00
14	.98	.96	.93	.11	.12	.47	.41	.27	.87	.35	.05	.00
15	.99	.96	.95	.13	.20	.33	.32	.14	.86	.32	.04	158.99
16	158.98	158.95	158.98	160.12	160.19	162.20	161.40	161.00	159.87	159.31	159.02	158.99
17	.97	.93	159.01	.07	.09	.13	.68	160.86	.81	.30	.01	.99
18	.95	.97	.00	.11	.03	.11	.91	.77	.79	.29	.06	.98
19	.95	159.09	.05	.01	.09	.15	162.11	.69	.75	.28	.09	.97
20	.96	.12	.12	159.96	.84	.21	.29	.60	.73	.29	.09	.96
21	158.99	159.06	159.11	159.97	161.06	162.22	162.33	160.55	159.70	159.29	159.05	158.95
22	.97	.01	.12	.99	.30	.15	.40	.51	.66	.26	.05	.96
23	.95	.02	.13	.99	.29	.04	.27	.46	.63	.25	.03	.94
24	.95	.01	.11	160.01	.26	161.96	161.98	.39	.61	.25	.01	.95
25	.94	.00	.10	.01	.27	.95	.75	.34	.57	.25	.01	.95
26	158.98	158.96	159.15	160.03	161.28	161.98	161.58	160.32	159.54	159.26	159.01	158.96
27	159.01	.95	.63	.16	.34	162.13	.40	.29	.52	.27	.07	.97
28	.02	.96	.92	.44	.31	.32	.35	.28	.51	.28	.08	.97
29	.01	.96	160.13	.58	.27	.83	.34	.29	.51	.28	.06	.98
30	158.99	.96	.33	.65	.26	163.10	.34	.24	.45	.25	-	.99
31	-	.96	-	.68	.17	-	.44	-	.46	.17	-	.99
Mean	158.98	158.98	159.16	160.29	160.64	162.11	161.97	161.06	159.83	159.33	159.07	158.99
Max.	159.02	159.12	160.33	160.71	161.34	163.10	163.14	161.88	160.27	159.49	159.14	159.05
Min.	158.94	158.93	158.93	159.96	160.06	161.09	161.32	160.24	159.45	159.17	159.01	158.94

WATER YEAR 1971 : Max. 163.14 m. Min. 158.93 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.10	0.10	0.07	9.96	12	18	55	26	6.28	0.97	0.24	0.15
2	0.12	0.10	0.09	11	12	19	53	28	6.64	0.82	0.23	0.11
3	0.12	0.07	0.15	11	10	20	50	29	5.70	0.82	0.23	0.11
4	0.12	0.08	0.16	12	9.28	21	47	29	5.40	0.82	0.22	0.11
5	0.11	0.07	0.16	12	8.44	22	44	30	4.90	0.79	0.21	0.10
6	0.10	0.10	0.16	11	7.72	23	41	31	4.71	0.70	0.20	0.11
7	0.10	0.09	0.14	10	7.84	27	39	31	4.71	0.70	0.18	0.11
8	0.10	0.06	0.14	8.44	7.48	39	36	30	4.90	0.73	0.19	0.12
9	0.09	0.06	0.13	7.24	6.64	46	32	29	4.90	0.73	0.19	0.11
10	0.08	0.07	0.10	6.64	5.60	49	30	27	4.53	0.68	0.23	0.10
11	0.08	0.07	0.09	5.92	5.10	50	30	26	4.17	0.68	0.21	0.08
12	0.07	0.06	0.06	5.20	4.71	47	28	24	3.72	0.73	0.18	0.09
13	0.08	0.06	0.03	5.10	4.44	45	26	23	2.94	0.56	0.17	0.10
14	0.08	0.06	0.03	4.90	5.00	42	23	21	2.82	0.60	0.15	0.10
15	0.09	0.06	0.05	5.10	5.80	40	22	19	2.76	0.54	0.14	0.09
16	0.08	0.05	0.08	5.00	5.70	37	23	17	2.82	0.52	0.12	0.09
17	0.07	0.05	0.11	4.53	4.71	36	28	14	2.46	0.50	0.11	0.09
18	0.05	0.07	0.10	4.90	4.17	35	32	13	2.34	0.48	0.16	0.08
19	0.05	0.19	0.15	3.99	4.71	36	35	12	2.10	0.46	0.19	0.07
20	0.06	0.22	0.22	3.54	14	37	39	11	1.98	0.48	0.19	0.06
21	0.09	0.16	0.21	3.63	18	37	40	10	1.80	0.48	0.15	0.05
22	0.07	0.11	0.22	3.81	22	36	41	9.54	1.60	0.42	0.15	0.06
23	0.05	0.12	0.23	3.81	21	34	38	8.92	1.45	0.40	0.13	0.04
24	0.05	0.11	0.21	3.99	21	33	33	8.08	1.35	0.40	0.11	0.05
25	0.04	0.10	0.20	3.99	21	33	29	7.48	1.21	0.40	0.11	0.05
26	0.08	0.06	0.25	4.17	21	33	26	7.24	1.12	0.42	0.11	0.06
27	0.11	0.05	1.45	5.40	22	36	23	6.88	1.06	0.44	0.17	0.07
28	0.12	0.06	3.18	8.68	22	39	22	6.76	1.03	0.46	0.18	0.07
29	0.11	0.06	5.10	10	21	49	22	6.88	1.03	0.46	0.16	0.08
30	0.09	0.06	7.36	11	21	54	22	6.28	0.85	0.40	–	0.09
31	–	0.06	–	12	19	–	22	–	0.88	0.27	–	0.09
Total	2.56	2.62	20.63	217.94	374.34	1,073	1,031	548.06	94.16	17.86	5.01	2.69
Mean	0.08	0.08	0.69	7.03	12.1	35.8	33.2	18.3	3.04	0.58	0.17	0.09
Max.	0.12	0.22	7.36	12	22	54	55	31	6.64	0.97	0.24	0.15
Min.	0.04	0.05	0.03	3.54	4.44	18	22	6.28	0.85	0.27	0.11	0.04
Runoff - MCM.	0.221	0.226	1.782	18.830	32.343	92.707	89.078	47.352	8.135	1.543	0.433	0.232

WATER YEAR 1971 : Max. 55 Min. 0.03 Mean 9.25 Annual Runoff 292.885 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.1	5.00	163.15	55				

MUN RIVER BASIN

Mun River at Amphoe Rasi Salai, Si Sa Ket (M. 5)

Location: Lat. 15°-20'-16" N., Long. 103°-09'-29" E., on left bank infront of Amphoe Rasi Salai office, Si Sa Ket.

Drainage Area: 44,275 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 110.00 m. (M.S.L.)

Bench Mark: B.M. of Army Survey Department No. 801.

Location: On east site of staff gage behind the office of police station.
Elevation: + 119.194 m. (M.S.L.)

Gage Reading Frequency: 3, 5 and 7-time daily readings at 06.00, 12.00, 18.00 hours on April, May, December - March. 06.00, 09.00, 12.00, 15.00, 18.00 hours on June, November and 01.00, 06.00, 09.00, 12.00, 15.00, 18.00, 24.00 hours on July - October respectively.

Basis of Mean Daily Gage Height: Arithmetic mean of 3, 5 and 7 readings.

Period of Available Gage Records: 1955 to date

Rating Operation:

Period of Rating: 1972 to date
Rated by Float: -
Rated by Current Meter: 1972 to date

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

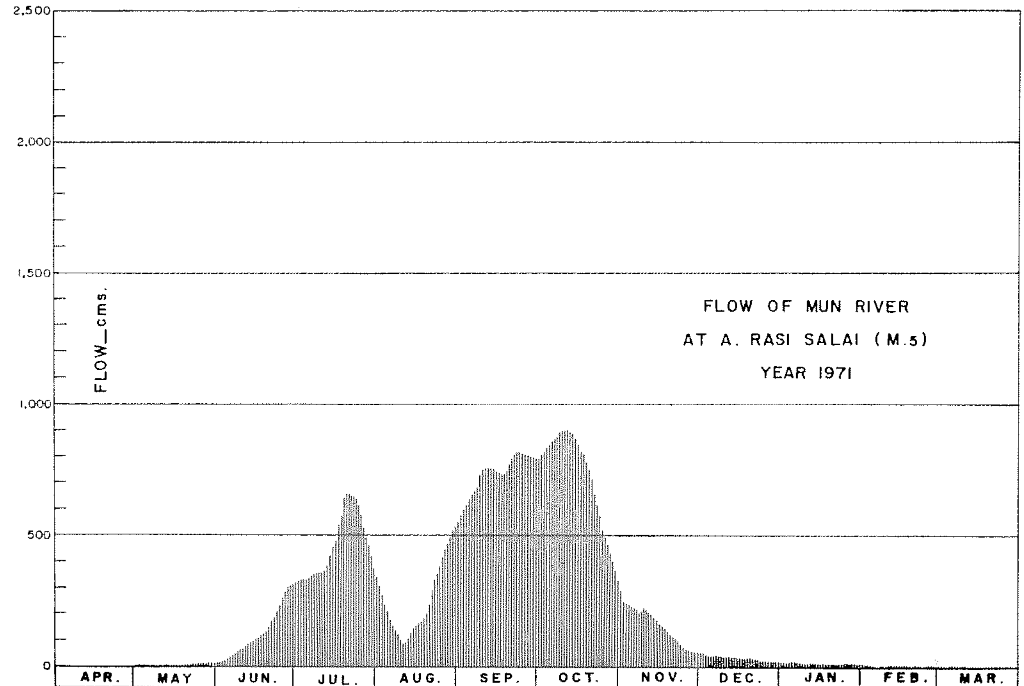
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1972-1973. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	110.07	110.08	110.53	113.50	113.62	115.18	116.44	113.16	111.11	110.55	110.25	110.20
2	.07	.07	.58	.54	.28	.32	.51	112.94	.11	.53	.25	.20
3	.07	.07	.60	.54	.06	.42	.58	.88	110.98	.52	.25	.19
4	.07	.06	.72	.54	112.76	.53	.69	.80	.98	.50	.25	.19
5	.06	.06	.82	.54	.53	.60	.76	.75	.96	.49	.25	.19
6	110.11	110.11	110.92	113.62	112.33	115.67	116.81	112.70	110.95	110.48	110.25	110.18
7	.10	.12	111.00	.68	.23	.74	.90	.68	.94	.47	.25	.18
8	.10	.12	.08	.74	.11	.97	.98	.64	.93	.45	.25	.18
9	.09	.12	.16	.75	111.90	116.13	.99	.77	.92	.44	.25	.18
10	.09	.11	.27	.75	.65	.21	117.03	.76	.92	.44	.25	.17
11	110.08	110.10	111.35	113.76	111.47	116.24	117.04	112.70	110.91	110.43	110.25	110.17
12	.08	.10	.42	.83	.56	.25	.02	.63	.90	.43	.25	.16
13	.08	.09	.52	.98	.79	.24	.01	.53	.88	.43	.25	.16
14	.08	.12	.57	114.27	112.04	.20	116.97	.44	.87	.42	.24	.15
15	.07	.15	.67	.45	.17	.16	.87	.34	.86	.42	.24	.14
16	110.07	110.18	111.73	114.65	112.21	116.12	116.67	112.26	110.84	110.41	110.24	110.14
17	.07	.21	.80	.88	.26	.09	.59	.15	.80	.41	.24	.13
18	.07	.23	.83	115.29	.30	.08	.54	.06	.78	.40	.24	.12
19	.07	.23	.91	.55	.42	.23	.40	111.98	.76	.40	.23	.12
20	.06	.24	.98	.67	.62	.37	.16	.84	.74	.38	.23	.12
21	110.06	110.29	112.30	115.67	113.10	116.50	115.99	111.72	110.71	110.37	110.23	110.11
22	.06	.33	.39	.63	.38	.56	.74	.63	.68	.36	.22	.14
23	.05	.35	.46	.58	.29	.58	.46	.51	.65	.36	.22	.12
24	.08	.37	.66	.49	.82	.58	.24	.40	.63	.35	.22	.11
25	.22	.38	.93	.24	114.02	.56	114.90	.31	.61	.34	.21	.16
26	110.16	110.41	113.12	115.02	114.18	116.52	114.72	111.22	110.60	110.33	110.21	110.18
27	.11	.43	.25	114.83	.43	.52	.50	.19	.59	.33	.20	.15
28	.10	.43	.34	.58	.58	.47	.30	.18	.58	.32	.20	.15
29	.09	.45	.41	.34	.74	.46	.04	.16	.57	.32	.20	.14
30	.08	.47	.47	.11	.89	.45	113.76	.14	.57	.31		.14
31		.50		113.83	115.04		.49		.56	.30		.13
Mean	110.08	110.22	111.83	114.41	112.96	116.13	116.04	112.15	110.80	110.41	110.24	110.15
Max.	110.22	110.50	113.47	115.67	115.04	116.58	117.04	113.16	111.11	110.55	110.25	110.20
Min.	110.05	110.06	110.53	113.50	111.47	115.18	113.49	111.14	110.56	110.30	110.20	110.11

WATER YEAR 1971 : Max. 117.04 m. Min. 110.05 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	0.80	18	324	341	579	788	277	56	19	6.00	4.00
2	0.70	0.70	21	330	295	601	800	248	56	18	6.00	4.00
3	0.70	0.70	24	330	264	617	812	240	46	17	6.00	3.70
4	0.70	0.60	29	330	225	635	831	230	46	16	6.00	3.70
5	0.60	0.60	25	330	196	646	844	223	44	16	6.00	3.70
6	1.30	1.30	41	341	172	657	853	217	43	15	6.00	3.40
7	1.00	1.60	47	349	160	669	869	214	43	15	6.00	3.40
8	1.00	1.60	53	358	147	708	883	209	42	14	6.00	3.40
9	0.90	1.60	60	359	125	735	885	226	41	14	6.00	3.40
10	0.90	1.30	69	359	100	749	893	225	41	14	6.00	3.10
11	0.80	1.00	75	360	85	754	895	217	41	13	6.00	3.10
12	0.80	1.00	81	370	92	755	891	208	40	13	6.00	2.80
13	0.80	0.90	89	393	114	754	889	196	39	13	6.00	2.80
14	0.80	1.60	93	436	139	747	882	185	38	13	5.60	2.50
15	0.70	2.50	102	463	154	740	864	173	38	13	5.60	2.20
16	0.70	3.40	108	494	158	733	828	164	36	12	5.60	2.20
17	0.70	4.40	115	531	164	728	813	151	34	12	5.60	1.90
18	0.70	5.20	118	596	168	727	805	142	33	12	5.60	1.60
19	0.70	5.20	126	638	182	752	781	133	32	12	5.20	1.60
20	0.60	5.60	133	657	207	776	740	119	30	11	5.20	1.60
21	0.60	7.60	168	657	269	998	711	107	29	11	5.20	1.30
22	0.60	9.20	179	651	307	808	669	98	27	10	4.80	2.20
23	0.50	10	187	643	351	812	624	88	25	10	4.80	1.60
24	0.80	11	212	628	369	812	588	79	24	10	4.80	1.30
25	4.80	11	247	588	399	808	534	72	23	9.60	4.40	2.80
26	2.80	12	272	553	423	801	505	65	22	9.20	4.40	3.40
27	1.30	13	289	523	460	801	471	62	21	9.20	4.00	2.50
28	1.00	13	302	483	483	793	441	61	21	8.80	4.00	2.50
29	0.90	14	311	447	508	791	402	60	20	8.80	4.00	2.20
30	0.80	15	320	412	532	789	360	58	20	8.40	–	2.20
31	–	16	–	370	556	–	323	–	20	8.00	–	1.90
Total	29.90	173.40	3,924	14,303	8,143	22,075	22,474	4,747	1,071	385.00	156.80	82.00
Mean	1.00	5.59	131	461	263	736	725	158	34.5	12.4	5.41	2.64
Max.	4.80	16	320	657	556	812	895	277	56	19	6.00	4.00
Min.	0.50	0.60	18	324	85	579	323	58	20	8.00	4.00	1.30
Runoff - mcm.	2.583	14.982	339.034	1,235.779	703.555	1,907.280	1,941.754	410.141	92.534	33.264	13.547	7.085

WATER YEAR 1971 : Max. 895 Min. 0.50 Mean 212 Annual Runoff 6,701.538 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 11	01.00	~~117.05~~	~~896~~				

Sep. 21 116.50 998

MUN RIVER BASIN

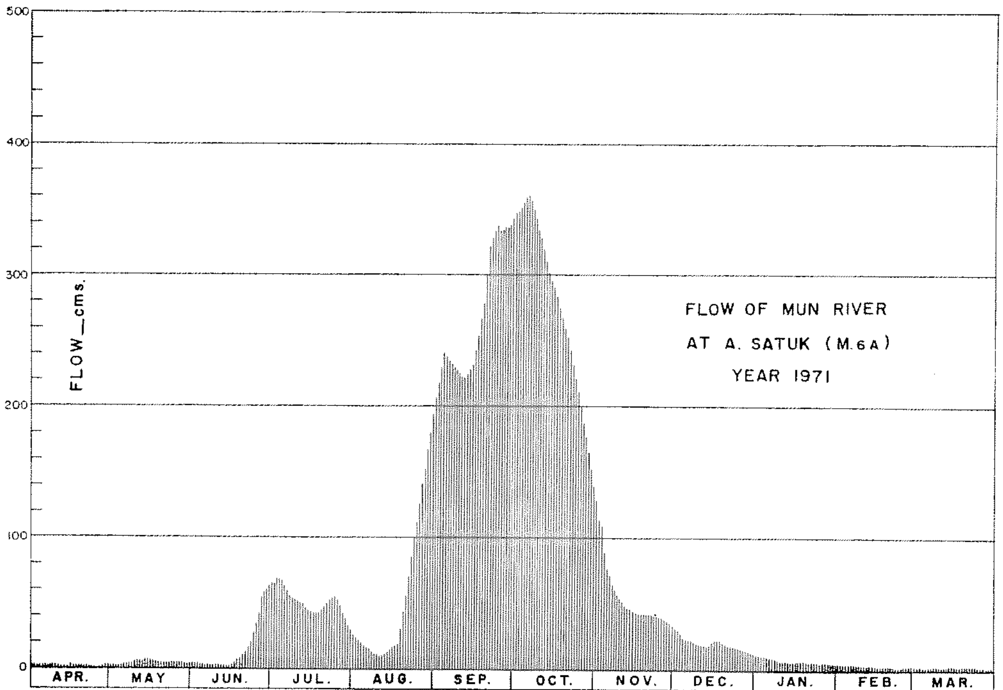
Mun River at Amphoe Satuk, Buri Ram (M. 6A)

Location:	Lat. 15°-17'-44" N., Long. 103°-17'-51" E., on right bank infront of Amphoe Satuk office, Buri Ram.
Drainage Area:	28,275 sq.km.
Type of Gage:	Staff gage and recorder.
Zero Gage at Bottom at:	+ 124.00 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Infront of automatic gage building.
Elevation:	+ 132.339 m. (M.S.L.)
Gage Reading Frequency:	3-time daily readings at 10.00, 14.00 and 18.00 hours on April - December. Recording on January - March.
Basis of Mean Daily Gage Height:	Arithmetic mean of 3 and 24 hourly readings.
Period of Available Gage Records:	1964 to date
Rating Operation:	
Period of Rating:	1970
Rated by Float:	-
Rated by Current Meter:	1970
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1970. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	124.18	124.17	124.24	126.16	125.11	128.21	129.03	127.27	125.30	124.62	124.26	124.16
2	.17	.18	.23	.14	.06	.29	.03	.06	.22	.59	.31	.16
3	.17	.17	.24	.24	.01	.34	.06	126.83	.15	.56	.32	.16
4	.17	.17	.22	.23	124.93	.33	.09	.63	.07	.54	.29	.16
5	.16	.19	.22	.20	.84	.31	.11	.46	.03	.53	.28	.15
6	124.16	124.21	124.21	126.10	124.77	128.28	129.12	126.30	125.02	124.51	124.27	124.15
7	.16	.21	.21	125.99	.74	.30	.09	.17	124.98	.48	.29	.14
8	.15	.24	.18	.96	.70	.27	.05	.08	.95	.46	.29	.14
9	.14	.27	.18	.92	.66	.25	.00	125.99	.94	.45	.28	.13
10	.13	.34	.19	.89	.63	.23	128.93	.90	.90	.44	.26	.13
11	124.12	124.36	124.20	125.84	124.59	128.21	128.89	125.85	124.87	124.42	124.26	124.12
12	.12	.37	.20	.80	.58	.21	.85	.78	.86	.41	.25	.12
13	.12	.41	.18	.77	.63	.24	.79	.73	.88	.40	.24	.13
14	.12	.47	.18	.70	.69	.28	.73	.70	.92	.39	.23	.13
15	.14	.46	.19	.66	.77	.29	.72	.69	125.00	.37	.22	.13
16	124.14	124.42	124.20	125.61	124.83	128.39	128.68	125.68	125.02	124.36	124.21	124.11
17	.12	.37	.28	.63	.86	.48	.64	.67	.02	.36	.21	.11
18	.12	.33	.36	.61	125.04	.56	.57	.65	.01	.35	.20	.11
19	.11	.33	.52	.63	.82	.62	.53	.66	124.98	.35	.20	.10
20	.12	.30	.64	.68	.73	.76	.47	.65	.92	.35	.20	.10
21	124.12	124.30	124.68	125.79	105.93	128.86	128.42	125.64	124.86	124.35	124.19	124.11
22	.13	.32	.80	.86	126.18	.92	.35	.62	.85	.34	.19	.10
23	.13	.36	.92	.91	.62	.95	.27	.60	.83	.33	.20	.09
24	.13	.37	125.10	.95	.90	.97	.20	.58	.80	.33	.19	.08
25	.13	.35	.35	.96	127.10	.96	.13	.56	.77	.32	.19	.09
26	124.13	124.33	125.60	125.89	127.28	128.95	128.03	125.54	124.76	124.31	124.19	124.11
27	.13	.31	.82	.81	.45	.97	127.95	.52	.76	.30	.18	.13
28	.14	.31	.98	.64	.64	.96	.81	.49	.74	.30	.18	.12
29	.15	.29	126.06	.46	.81	.98	.70	.44	.72	.29	.17	.11
30	.16	.25	.12	.33	.99	129.00	.58	.38	.70	.26		.10
31		.26		.25	128.12		.46		.67	.25		.10
Mean	124.14	124.30	124.65	125.83	125.70	128.54	128.56	125.90	124.92	124.40	124.23	124.12
Max.	124.18	124.47	126.12	126.24	128.12	129.00	129.12	127.27	125.30	124.62	124.32	124.16
Min.	124.11	124.17	124.18	125.25	124.58	128.21	127.46	125.38	124.67	124.25	124.17	124.08

WATER YEAR 1971 : Max. 129.12 m. Min. 124.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.70	3.55	4.60	66	26	223	347	130	32	12	4.90	3.40
2	3.55	3.70	4.45	65	25	234	347	115	30	11	5.70	3.40
3	3.55	3.55	4.60	70	23	241	352	101	27	11	5.90	3.40
4	3.55	3.55	4.30	69	21	239	357	89	25	10	5.35	3.40
5	3.40	3.85	4.30	68	18	236	361	81	24	10	5.20	3.25
6	3.40	4.15	4.15	63	16	232	362	73	24	9.70	5.05	3.25
7	3.40	4.15	4.15	58	15	235	357	66	22	9.10	5.35	3.10
8	3.25	4.60	3.70	56	14	231	350	62	21	8.70	5.35	3.10
9	3.10	5.05	3.70	55	13	228	342	58	21	8.50	5.20	2.95
10	2.95	6.30	3.85	54	12	226	330	54	20	8.30	4.90	2.95
11	2.80	6.70	4.00	52	11	223	323	52	19	7.90	4.90	2.80
12	2.80	6.90	4.00	50	11	223	317	49	19	7.70	4.75	2.80
13	2.80	7.70	3.70	49	12	227	307	47	19	7.50	4.60	2.95
14	2.80	8.90	3.70	46	14	232	298	46	21	7.30	4.45	2.95
15	3.10	8.70	3.85	44	16	234	298	46	23	6.90	4.30	2.80
16	3.10	7.90	4.00	42	18	248	290	45	24	6.70	4.15	2.65
17	2.80	6.90	5.20	43	19	260	284	45	24	6.70	4.15	2.65
18	2.80	6.10	6.70	42	24	272	273	44	23	6.50	4.00	2.65
19	2.65	6.10	9.90	43	36	281	267	44	22	6.50	4.00	2.50
20	2.80	5.50	12	45	47	303	259	44	21	6.50	4.00	2.50
21	2.80	5.50	13	50	55	319	252	44	19	6.50	3.85	2.65
22	2.95	5.90	17	52	67	328	242	43	18	6.30	3.85	2.50
23	2.95	6.70	21	54	89	333	231	42	18	6.10	4.00	2.37
24	2.95	6.90	26	56	105	337	222	41	17	6.10	3.85	2.24
25	2.95	6.50	33	56	118	335	213	41	16	5.90	3.85	2.37
26	2.95	6.10	42	54	131	333	201	40	16	5.70	3.85	2.65
27	2.95	5.70	51	50	144	337	191	39	16	5.50	3.70	2.95
28	3.10	5.70	57	44	161	335	177	38	15	5.50	3.70	2.80
29	3.25	5.35	61	37	177	339	166	36	15	5.35	3.55	2.65
30	3.40	4.75	64	33	196	342	155	34	14	4.90		2.50
31	–	4.90	–	30	212	–	145	–	13	4.75	–	2.50
Total	92.55	177.85	483.85	1,596	1,846	8,166	8,614	1,689	638	231.10	130.40	87.63
Mean	3.08	5.73	16.1	51.4	59.5	272	278	56.3	20.5	7.45	4.49	2.82
Max.	3.70	8.90	64	70	212	342	362	130	32	12	5.90	3.40
Min.	2.65	3.55	3.70	30	11	223	145	34	13	4.75	3.55	2.24
Runoff – mcm.	7.996	15.366	39.212	137.894	159.494	705.542	744.249	145.930	55.123	19.967	11.266	7.571

WATER YEAR 1971 : Max. 362 Min. 2.24 Mean 64.8 Annual Runoff 2,052.206 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	12.00	129.12	362				

MUN RIVER BASIN

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

Location: Lat. 15°-13'-17" N., Long. 104°-51'-39" E., on left bank at abutment of Seri Prachathiphatai bridge, Amphoe Muang, Ubon Ratchathani.

Drainage Area: 106,673 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 105.00 m. (M.S.L.)

Bench Mark: B.M. - H.S. M. 7

Location: Near abutment of the bridge.
Elevation: + 113.317 m. (M.S.L.)

Gage Reading Frequency: 2-time daily readings at 09.00 and 15.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings.

Period of Available Gage Records: 1948 to date

Rating Operation:

Period of Rating: 1956, 1958, 1964 to date.
Rated by Float: -
Rated by Current Meter: 1956, 1958, 1964 to date.

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

Overbank Flow Conditions: No overbank flow.

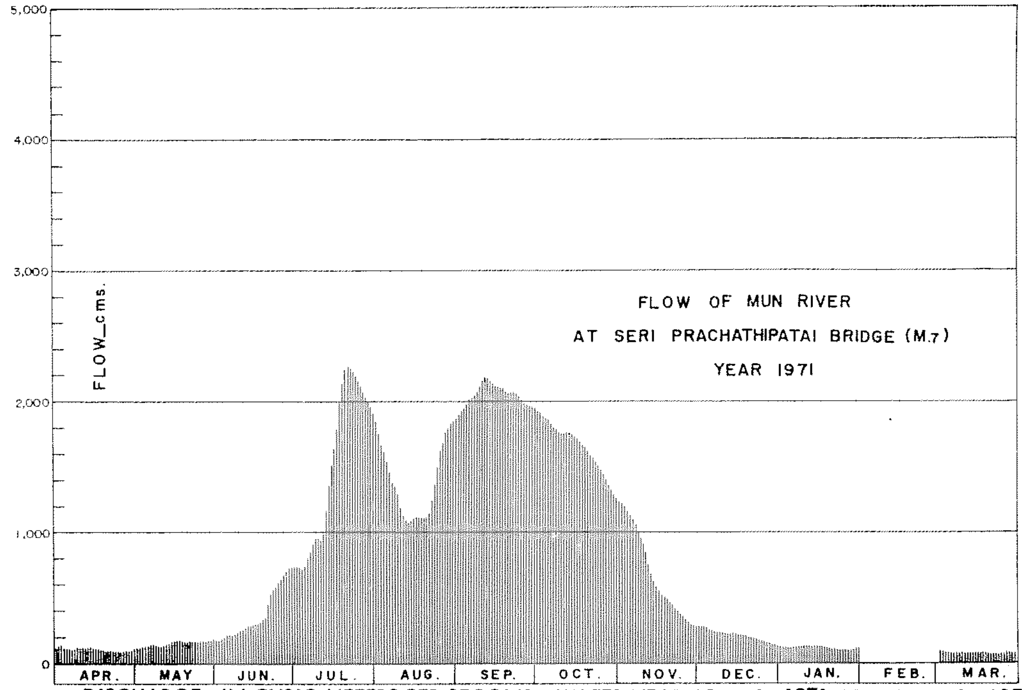
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

Remarks: No records February 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.84	106.82	107.01	108.50	111.02	111.10	111.20	109.65	107.35	106.88		106.75
2	.85	.82	.03	.50	110.82	.18	.12	.59	.33	.86		.74
3	.86	.83	.05	.48	.64	.24	.09	.53	.32	.85		.73
4	.84	.85	.10	.47	.54	.28	.04	.45	.30	.85		.71
5	.83	.86	.14	.54	.28	.34	110.99	.39	.28	.85		.70
6	106.82	106.90	107.16	108.65	110.13	111.39	110.94	109.32	107.24	106.86		106.69
7	.82	.91	.16	.79	109.98	.42	.90	.23	.22	.88		.69
8	.82	.90	.15	.97	.92	.49	.86	.13	.22	.89		.69
9	.83	.89	.18	109.03	.76	.63	.84	.00	.20	.89		.69
10	.84	.89	.23	.01	.53	.72	.82	108.85	.20	.89		.70
11	106.83	106.91	107.28	108.98	109.45	111.74	110.83	108.69	107.20	106.90		106.71
12	.83	.93	.33	109.07	.34	.72	.83	.52	.19	.89		.71
13	.83	.95	.34	.42	.28	.67	.81	.37	.19	.89		.71
14	.84	.99	.33	.92	.36	.60	.79	.24	.18	.90		.72
15	.85	107.02	.35	110.29	.38	.57	.75	.14	.17	.90		.72
16	106.85	107.05	107.37	110.51	109.41	111.56	110.71	108.04	107.16	106.89		106.73
17	.85	.05	.40	.95	.40	.55	.66	107.97	.15	.86		.73
18	.84	.03	.44	111.44	.37	.52	.60	.91	.14	.83		.72
19	.83	.00	.50	.69	.35	.47	.54	.85	.13	.81		.72
20	.82	106.98	.59	.82	.39	.48	.50	.81	.12	.81		.71
21	106.81	107.00	107.89	111.88	109.50	111.48	110.44	107.76	107.10	106.80		106.71
22	.80	.01	108.02	.89	.75	.48	.38	.67	.08	.79		.71
23	.79	.01	.08	.85	110.06	.46	.30	.62	.07	.79		.71
24	.77	.00	.12	.77	.35	.41	.22	.58	.04	.78		.71
25	.75	.00	.21	.67	.58	.32	.13	.51	.01	.78		.71
26	106.75	107.00	108.31	111.55	110.69	111.27	110.06	107.46	106.98	106.80		106.76
27	.77	.01	.38	.47	.82	.26	109.99	.41	.96	.81		.75
28	.79	.01	.45	.45	.89	.26	.88	.38	.93	.82		.74
29	.81	.02	.48	.37	.96	.25	.80	.36	.91	.82		.73
30	.81	.02	.49	.28	110.00	.23	.73	.36	.90	.82		.73
31	-	.01	-	.15	.03	-	.69	-	.89	.83		.72
Mean	106.08	106.96	107.58	110.30	110.06	111.44	110.56	108.28	107.13	106.84		106.72
Max.	106.86	107.05	108.49	111.89	111.03	111.74	111.20	109.65	107.35	106.90		106.76
Min.	106.75	106.82	107.01	108.47	109.28	111.10	109.69	107.36	106.89	106.78		106.69

WATER YEAR 1971 : Max. 111.89 m. Min. 106.69 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	124	118	175	742	1,857	1,892	1,938	1,242	292	136		98
2	127	118	182	742	1,765	1,929	1,901	1,216	285	130		95
3	130	121	189	734	1,682	1,956	1,869	1,189	281	127		92
4	124	127	206	729	1,637	1,975	1,866	1,154	274	127		87
5	121	130	220	759	1,520	2,002	1,843	1,128	267	127		84
6	118	142	226	805	1,453	2,025	1,820	1,097	254	130		82
7	118	145	226	864	1,387	2,040	1,802	1,057	247	136		82
8	118	142	223	943	1,361	2,073	1,784	1,013	247	139		82
9	121	139	233	969	1,280	2,140	1,774	956	240	139		82
10	124	139	250	960	1,189	2,184	1,765	890	240	139		84
11	121	145	267	947	1,154	2,193	1,770	822	240	142		87
12	121	151	285	986	1,106	2,184	1,770	750	237	139		87
13	121	157	288	1,141	1,079	2,160	1,761	688	237	139		87
14	124	169	285	1,361	1,114	2,126	1,751	636	233	142		90
15	127	179	292	1,524	1,123	2,112	1,733	596	230	142		90
16	127	189	299	1,623	1,136	2,107	1,715	556	226	139		92
17	127	189	310	1,825	1,132	2,102	1,691	528	223	130		92
18	124	182	324	2,049	1,119	2,088	1,664	504	220	121		90
19	121	172	346	2,169	1,110	2,064	1,637	480	216	115		90
20	118	166	369	2,232	1,127	2,068	1,619	464	213	115		87
21	115	172	496	2,260	1,176	2,068	1,592	444	206	112		87
22	112	175	548	2,265	1,276	2,068	1,565	410	199	109		87
23	109	175	572	2,246	1,422	2,059	1,529	391	196	109		87
24	104	172	588	2,208	1,551	2,035	1,493	366	186	106		87
25	98	172	624	2,160	1,655	1,993	1,453	350	176	106		87
26	98	172	664	2,102	1,705	1,970	1,422	332	165	112		101
27	104	175	692	2,064	1,765	1,965	1,392	314	160	115		98
28	109	175	721	2,054	1,797	1,966	1,343	303	151	118		95
29	115	179	734	2,016	1,830	1,961	1,308	296	145	118		92
30	115	199	738	1,975	1,848	1,952	1,277	296	142	118		92
31	–	175	–	1,915	1,862	–	1,260	–	139	121		90
Total	3,535	4,961	11,572	47,369	44,218	61,458	51,127	20,468	6,768	3,898		2,763
Mean	11.8	160	386	1,528	1,426	2,048	1,649	682	218	126		89.1
Max.	130	189	738	2,265	1,862	2,193	1,938	1,242	292	142		101
Min.	98	118	175	729	1,079	1,892	1,260	296	139	106		82
Runoff – mcm.	305.424	428.630	999.821	4,092.682	3,820.435	5,309.971	4,417.373	1,768.435	584.755	336.787		238.723

WATER YEAR 1971 : Max. 2,265 Min. 82 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 22	01.00	111.90	2,270				

MUN RIVER BASIN

Lam Plai Mat at railway bridge, Buri Ram (M.8)

Location:	Lat. 15^{0}-01'-05" N., Long. 102^{0}-48'-55" E., on left bank about 60 meters upstream from railway bridge, Amphoe Lam Plai Mat, Buri Ram.
Drainage Area:	5,025 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 149.50 m. (M.S.L.)
Bench Mark:	B.M. - H.S. M. 8
Location:	At the foot of the ladder of automatic gage building.
Elevation:	+ 155.859 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:	1951 to date
Rating Operation:	
Period of Rating:	1967
Rated by Float:	-
Rated by Current Meter:	1967
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation for years without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1967. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	150.43	150.52	150.51	152.41	150.62	150.99	156.49	151.52	150.71	150.40	150.38	150.22
2	.43	.52	.50	.59	.62	151.07	.53	.52	.69	.41	.33	.27
3	.43	.53	.46	.74	.62	.25	.51	.47	.67	.51	.28	.22
4	.44	.56	.44	.74	.63	.34	.50	.39	.63	.51	.26	.21
5	.44	.56	.41	.64	.60	.55	.46	.34	.62	.52	.26	.19
6	150.43	150.61	150.38	152.44	150.57	151.80	156.42	151.28	150.62	150.52	150.26	150.20
7	.43	.58	.40	.20	.54	150.04	.36	.23	.61	.51	.23	.21
8	.42	.57	.50	151.99	.56	.25	.29	.22	.61	.49	.25	.21
9	.42	.57	.50	.77	.53	.48	.21	.18	.63	.42	.25	.21
10	.42	.54	.48	.55	.48	.72	.12	.15	.63	.42	.25	.22
11	150.41	150.56	150.46	151.37	150.50	152.87	156.00	151.10	150.63	150.42	150.27	150.22
12	.41	.56	.45	.26	.49	.90	155.86	.12	.62	.37	.29	.22
13	.41	.54	.44	.18	.55	.90	.67	.10	.60	.33	.29	.22
14	.41	.52	.48	.07	.56	.88	.44	.07	.60	.39	.30	.21
15	.41	.52	.65	.01	.56	.85	.16	.06	.60	.44	.28	.21
16	150.41	150.49	150.67	150.95	150.63	152.96	154.82	151.02	150.59	150.40	150.27	150.20
17	.40	.51	.69	.90	.69	153.40	.41	150.99	.59	.35	.24	.20
18	.40	.57	.67	.86	.71	.89	153.93	.96	.58	.40	.24	.20
19	.43	.59	.63	.83	.72	154.48	.41	.91	.58	.40	.23	.20
20	.43	.60	.58	.82	151.13	155.06	152.88	.87	.58	.39	.24	.20
21	150.44	150.61	150.55	150.80	152.25	155.38	152.38	150.84	150.55	150.36	150.24	150.19
22	.46	.61	.64	.77	.79	.57	151.88	.82	.56	.31	.24	.19
23	.47	.61	.87	.76	.77	.68	.50	.82	.61	.35	.24	.21
24	.49	.55	151.18	.75	.50	.73	.27	.80	.57	.33	.24	.22
25	.48	.55	.00	.71	.08	.79	.16	.76	.54	.31	.24	.22
26	150.47	150.53	150.83	150.69	151.61	155.88	151.14	150.74	150.53	150.27	150.24	150.21
27	.47	.58	.81	.68	.26	.99	.16	.74	.54	.22	.24	.21
28	.48	.53	.91	.68	.07	156.08	.19	.74	.52	.19	.23	.21
29	.48	.51	151.40	.67	.04	.15	.32	.73	150.49	.34	.23	.20
30	.49	.51	152.11	.67	150.98	.33	.42	.71	.43	.43	-	.21
31	-	.54	-	.64	151.00	-	.51	-	.42	.42	-	.23
Mean	150.44	150.55	150.69	151.33	151.02	153.67	154.11	151.04	150.58	150.39	150.26	150.21
Max.	150.49	150.61	152.11	152.74	152.79	156.33	156.53	151.52	150.71	150.52	150.38	150.23
Min.	150.40	150.49	150.38	150.64	150.48	150.99	151.14	150.71	150.42	150.19	150.23	150.19

WATER YEAR 1971 : Max. 156.53 m. Min. 150.19 m.

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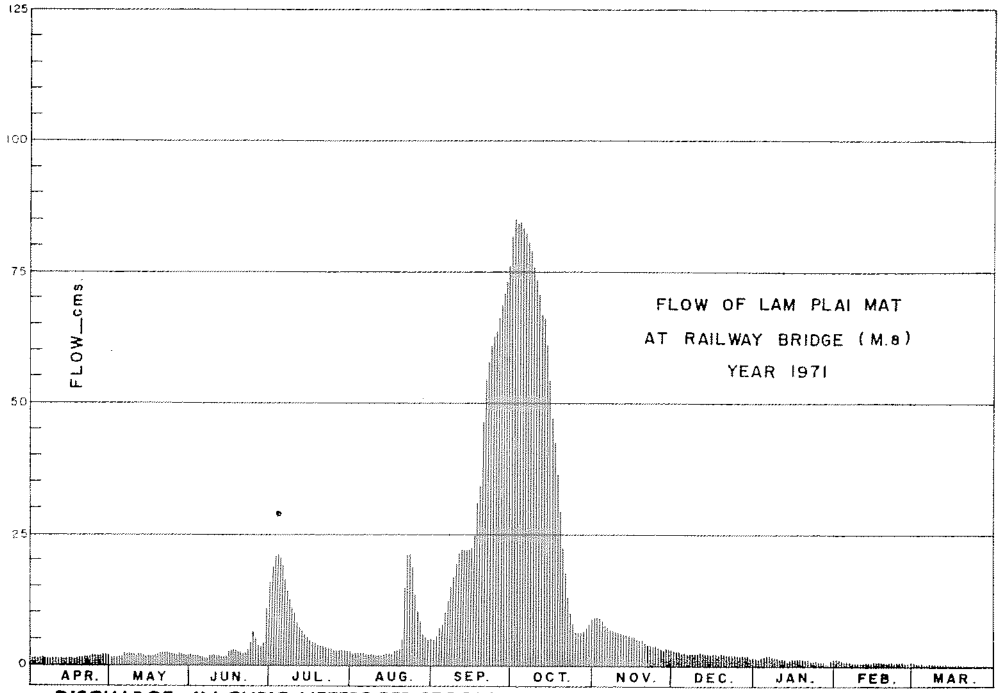


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.45	1.90	1.85	18	2.42	4.93	84	9.28	2.97	1.30	1.20	0.48
2	1.45	1.90	1.80	19	2.42	5.56	85	9.28	2.84	1.35	0.95	0.48
3	1.45	1.95	1.60	21	2.42	7.00	84	8.83	2.72	1.85	0.72	0.48
4	1.50	2.10	1.50	21	2.48	7.72	84	8.12	2.48	1.85	0.64	0.44
5	1.50	2.10	1.35	20	2.30	9.55	83	7.72	2.42	1.90	0.64	0.36
6	1.45	2.36	1.20	18	2.15	12	82	7.24	2.42	1.90	0.64	0.40
7	1.45	2.20	1.30	15	2.00	14	80	6.84	2.36	1.85	0.52	0.44
8	1.40	2.15	1.80	13	2.10	16	78	6.76	2.36	1.75	0.60	0.44
9	1.40	2.15	1.80	11	1.95	18	75	6.44	2.48	1.40	0.60	0.44
10	1.40	2.00	1.70	9.55	1.70	21	73	6.20	2.48	1.40	0.60	0.48
11	1.35	2.10	1.60	7.96	1.80	22	70	5.80	2.48	1.40	0.68	0.48
12	1.35	2.10	1.55	7.08	1.75	22	66	5.96	2.42	1.15	0.76	0.48
13	1.35	2.00	1.50	6.44	2.05	22	66	5.80	2.30	0.95	0.76	0.48
14	1.35	1.90	1.70	5.56	2.10	22	57	5.56	2.30	1.25	0.80	0.44
15	1.35	1.90	2.60	5.08	2.10	22	51	5.48	2.30	1.50	0.72	0.44
16	1.35	1.75	2.72	4.65	2.48	23	46	5.16	2.25	1.30	0.68	0.40
17	1.30	1.85	2.84	4.30	2.84	28	40	4.93	2.25	1.05	0.56	0.40
18	1.30	2.15	2.72	4.02	2.97	33	34	4.72	2.20	1.30	0.56	0.40
19	1.45	2.25	2.48	3.81	3.04	41	28	4.37	2.20	1.30	0.52	0.40
20	1.45	2.30	2.20	3.74	6.04	50	22	4.09	2.20	1.25	0.56	0.40
21	1.50	2.36	2.05	3.60	16	55	17	3.88	2.05	1.10	0.56	0.36
22	1.60	2.36	2.54	3.39	21	59	12	3.74	2.10	0.85	0.56	0.36
23	1.65	2.36	4.09	3.32	21	62	9.10	3.74	2.36	1.05	0.56	0.44
24	1.75	2.05	6.44	3.25	18	63	7.16	3.60	2.15	0.95	0.56	0.48
25	1.70	2.05	5.00	2.97	14	64	6.28	3.32	2.00	0.85	0.56	0.48
26	1.65	1.95	3.81	2.84	10	67	6.12	3.18	1.95	0.68	0.56	0.44
27	1.65	2.20	3.67	2.78	7.08	69	6.28	3.18	2.00	0.48	0.56	0.44
28	1.70	1.95	4.37	2.78	5.56	72	6.52	3.18	1.90	0.36	0.52	0.44
29	1.70	1.85	8.20	2.72	5.32	74	7.56	3.11	1.75	1.00	0.52	0.40
30	1.75	1.85	15	2.72	4.86	79	8.38	2.97	1.45	1.45	–	0.44
31	–	2.00	–	2.54	5.00	–	9.19	–	1.40	1.40	–	0.52
Total	44.70	64.09	92.98	251.10	176.93	1,064.76	1,383.59	162.48	69.54	39.17	18.67	13.56
Mean	1.49	2.07	3.10	8.10	5.71	35.5	44.6	5.42	2.24	1.26	0.64	0.44
Max.	1.75	2.36	15	21	21	79	85	9.28	2.97	1.90	1.20	0.52
Min.	1.30	1.75	1.20	2.54	1.70	4.93	6.12	2.97	1.40	0.36	0.52	0.36
Runoff – mcm.	3.862	5.537	8.033	21.695	15.287	91.995	119.542	14.038	6.008	3.384	1.613	1.171

WATER YEAR 1971 : Max. 85 Min. 0.36 Mean 9.24 Annual Runoff 292.168 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.2	6.00	156.53	85				

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 the bridge, and about 200 meters north of city jail, Amphoe Muang Si Sa Ket.

Drainage Area: 3,026 sq.km.

Type of Gage: Staff gage and Recorder.

Zero Gage at Bottom at: + 109.00 m. (M.S.L.)

Bench Mark: B.M. No.0339

Location: On right bank at abutment of highway bridge.
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 on April - May. Recording on June - March.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 and 24hourly readings.

Period of Available Gage Records: 1954 to date

Rating Operation:

Period of Rating: 1951, 1972 to date
Rated by Float: -
Rated by Current Meter: 1951, 1972 to date

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

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1951. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

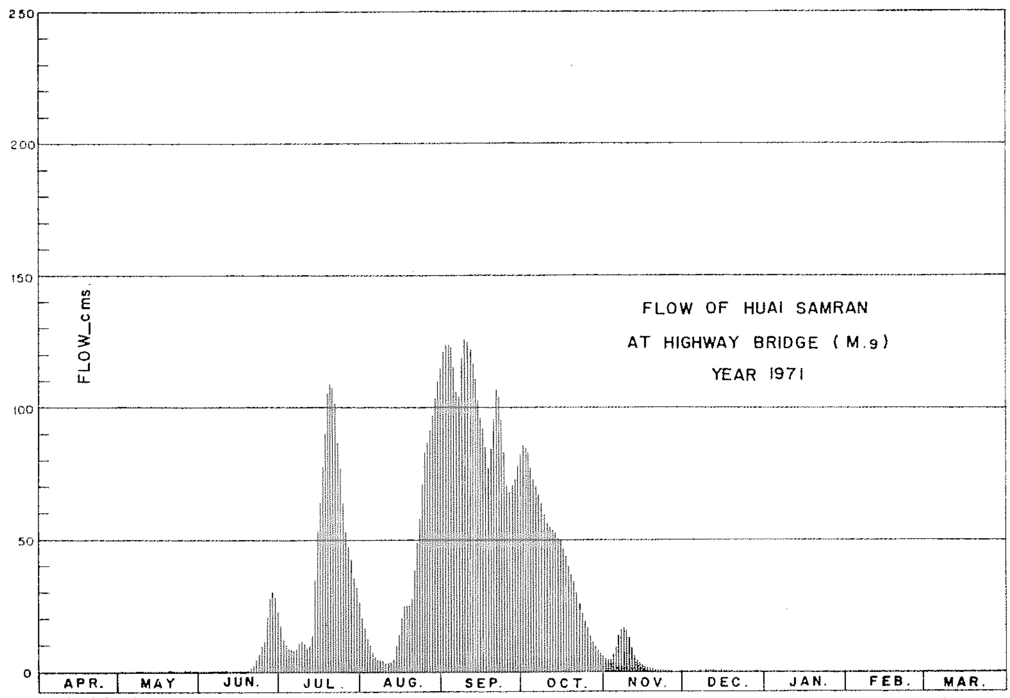
Remarks: Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.18	109.19	109.31	112.70	113.02	116.35	115.51	111.59	109.91	109.56	109.29	109.20
2	.17	.19	.29	.36	112.71	.36	.50	.50	.85	.54	.29	.20
3	.18	.23	.28	.12	.46	.37	.44	.58	.84	.43	.30	.18
4	.20	.17	.26	.01	.16	.34	.28	.85	.84	.41	.31	.19
5	.21	.21	.25	111.99	111.91	.18	.16	112.20	.90	.46	.29	.20
6	109.22	109.42	109.24	111.99	111.69	115.98	115.08	112.48	109.87	109.45	109.26	109.16
7	.25	.30	.27	112.04	.54	.95	114.97	.66	.84	.45	.24	.18
8	.21	.27	.33	.28	.52	116.29	.87	.71	.86	.44	.45	.22
9	.22	.37	.43	.36	.41	.41	.74	.61	.84	.44	.29	.22
10	.24	.36	.49	.23	.19	.39	.64	.39	.79	.43	.30	.21
11	109.25	109.28	109.36	112.05	111.17	116.37	114.57	112.13	109.74	109.42	109.28	109.22
12	.24	.32	.35	.12	.38	.29	.51	111.83	.71	.39	.28	.23
13	.20	.34	.40	.48	.62	.16	.49	.54	.68	.38	.27	.23
14	.19	.30	.37	113.69	112.14	115.96	.42	.34	.64	.38	.19	.23
15	.20	.26	.47	114.42	.58	.79	.38	.10	.61	.34	.17	.20
16	109.23	109.43	109.55	114.86	113.01	115.68	114.26	110.93	109.62	109.33	109.26	109.23
17	.25	.32	.55	115.34	.19	.49	.16	.82	.62	.33	.26	.22
18	.22	.40	.61	.69	.20	.27	.02	.72	.62	.32	.25	.14
19	.20	.44	110.02	.99	.19	.52	113.85	.63	.59	.42	.28	.18
20	.20	.51	.63	116.06	.35	.76	.71	.55	.57	.41	.27	.22
21	109.21	109.42	111.02	116.02	113.95	116.02	113.52	110.46	109.56	109.39	109.26	109.21
22	.18	.35	.51	115.87	114.38	115.94	.33	.34	.56	.35	.21	.18
23	.19	.30	.89	.59	.72	.73	.17	.27	.54	.38	.23	.14
24	.22	.27	112.14	.23	115.18	.44	112.94	.21	.52	.35	.29	.23
25	.24	.35	.38	114.85	.47	.09	.79	.17	.52	.34	.23	.24
26	109.25	109.39	112.92	114.53	115.58	115.03	112.55	110.15	109.48	109.33	109.29	109.24
27	.29	.40	113.36	.23	.69	.09	.33	.12	.48	.34	.29	.25
28	.30	.41	.48	.07	.81	.16	.16	.12	.51	.35	.26	.27
29	.28	.40	.39	113.78	.94	.37	111.99	.06	.55	.34	.22	.25
30	.26	.36	.10	.65	116.09	.45	.88	.01	.56	.32	-	.25
31	-	.33	-	.32	.23	-	.76	-	.57	.29	-	.23
Mean	109.22	109.31	110.49	113.74	113.34	115.84	113.93	111.17	109.67	109.39	109.27	109.21
Max.	109.30	109.51	113.48	116.06	116.23	116.41	115.51	112.71	109.91	109.56	109.45	109.27
Min.	109.17	109.17	109.24	111.99	111.17	115.03	111.76	110.01	109.48	109.29	109.17	109.14

WATER YEAR 1971 : Max. 116.41 m. Min. 109.14 m.

สท. 55



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1971

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.000	0.00	0.002	17	22	123	86	5.10	0.16	0.058	0.00	0.000
2			0.000	12	17	124	85	4.62	0.14	0.052	0.00	
3				10	14	124	83	5.04	0.14	0.026	0.00	
4				8.41	10	123	77	6.95	0.14	0.022	0.002	
5		0.00		8.21	7.49	115	73	10	0.16	0.032	0.00	
6		0.024		8.21	5.76	106	70	14	0.15	0.030	0.00	
7		0.000	0.000	8.74	4.83	104	67	16	0.14	0.030	0.00	
8		0.000	0.006	11	4.73	120	64	17	0.15	0.028	0.030	
9		0.014	0.026	12	4.15	126	60	16	0.14	0.028	0.000	
10		0.012	0.038	11	3.10	125	57	13	0.13	0.026		
11		0.000	0.012	8.96	3.01	124	55	10	0.11	0.024		
12		0.004	0.010	10	4.00	120	54	6.77	0.10	0.018		
13		0.008	0.020	14	5.28	114	53	4.83	0.094	0.016		
14		0.000	0.014	34	10	105	51	3.80	0.082	0.016		
15		0.000	0.034	51	15	97	50	2.70	0.073	0.008		
16		0.026	0.055	63	22	92	47	2.10	0.076	0.006		
17		0.004	0.055	79	25	85	45	1.72	0.076	0.006		
18		0.020	0.073	93	25	77	41	1.41	0.076	0.004		
19		0.028	0.22	106	25	86	38	1.17	0.067	0.024		
20		0.043	1.17	109	28	96	35	0.99	0.061	0.022		
21		0.024	2.42	107	40	107	31	0.80	0.058	0.018		
22		0.010	4.68	101	50	104	27	0.59	0.058	0.010		
23		0.000	7.31	89	59	94	24	0.48	0.052	0.016		
24		0.000	9.84	75	74	83	20	0.40	0.046	0.010		
25		0.010	12	63	84	71	18	0.36	0.046	0.008		
26		0.018	20	54	88	68	15	0.33	0.036	0.006		
27		0.020	28	47	93	71	12	0.30	0.036	0.008		
28		0.022	30	43	98	73	10	0.30	0.043	0.010		
29		0.020	28	36	104	80	8.21	0.25	0.055	0.008	0.000	
30	0.000	0.012	23	33	111	83	7.22	0.21	0.058	0.004		
31		0.006	-	27	117	-	6.23	-	0.061	0.000		0.000
Total	0.000	0.325	166.985	1,349.53	1,173.35	3,020	1,369.66	147.22	2.814	0.574	0.032	0.000
Mean	0.000	0.010	5.57	43.5	37.8	101	44.2	4.91	0.091	0.018	0.001	0.000
Max.	0.000	0.043	30	109	117	126	86	17	0.16	0.058	0.030	0.000
Min.	0.000	0.00	0.00	8.21	3.01	68	6.23	0.21	0.036	0.000	0.00	0.000
Runoff - MCM.	0.000	0.028	14.427	116.599	101.377	260.928	118.339	12.720	0.243	0.049	0.003	0.000

WATER YEAR 1971 : Max. 126 Min. 0.00 Mean 19.7 Annual Runoff 624.741 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.9	12.00	116.42	127				

MUN RIVER BASIN

Lam Chi railway bridge, Surin (M. 26)

Location: Lat. 14^{0}-54'-03" N., Long. 103^{0}-24'-21" E., on left bank at railway bridge, Ban Kho Kho, Amphoe Muang, Surin.

Drainage Area: 2,927 sq.km.

Type of Gage: Water-Stage recorder

Zero Gage at Bottom at: + 127.00 m. (M.S.L.)

Bench Mark: B.M. - H.S. No. 1035 and No. 1036

Location: No. 1035 about 28 meters from left bank along the staff gage line.
No. 1036 about 25 meters from right bank along the staff gage line.

Elevation: No. 1035 + 134.981 m. (M.S.L.); No. 1036 + 135.203 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954 to date

Rating Operation:

Period of Rating: 1967-1968
Rated by Float: -
Rated by Current Meter: 1967-1968

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

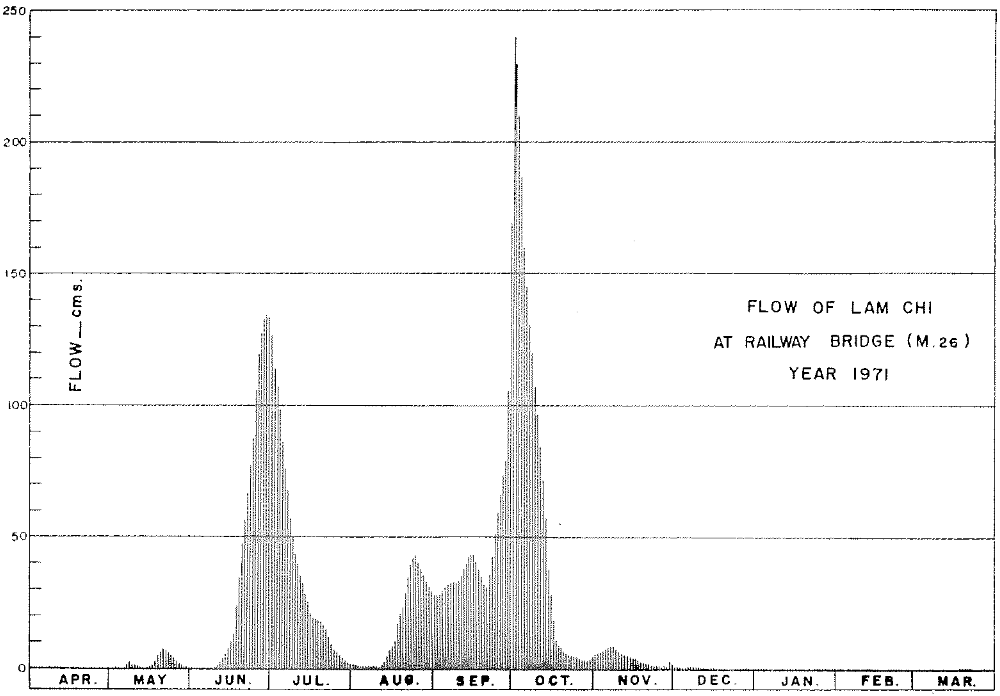
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1967-1968. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	127.43	127.39	127.79	135.66	128.37	131.18	136.12	128.98	127.81	127.54	127.45	127.44
2	.40	.40	.80	.58	.27	.18	.25	129.04	.81	.55	.52	.42
3	.40	.40	.84	.44	.19	.26	.17	.11	.80	.59	.54	.49
4	.41	.45	.83	.28	.07	.34	.02	.24	.79	.64	.54	.53
5	.42	.55	.79	.05	.00	.39	135.87	.37	.79	.61	.56	.49
6	127.42	127.58	127.79	134.69	128.10	131.43	135.73	129.40	127.66	127.57	127.67	127.48
7	.42	128.20	.78	.25	127.97	.50	.59	.36	.88	.57	.67	.55
8	.43	.42	.77	133.74	.91	.52	.42	.29	.86	.57	.66	.51
9	.42	.28	.76	.16	.89	.54	.21	.19	.80	.58	.56	.50
10	.42	.05	.84	132.59	.87	.53	134.89	.09	.69	.59	.55	.52
11	127.45	127.85	128.11	132.12	127.99	131.66	134.46	129.00	127.82	127.59	127.55	127.62
12	.45	.74	.37	131.81	128.24	.85	133.89	128.90	.79	.52	.55	.60
13	.43	.67	.67	.57	.59	132.04	.21	.80	.78	.52	.55	.56
14	.40	.64	.99	.32	.85	.20	132.29	.71	.60	.50	.55	.55
15	.41	.65	129.27	130.99	129.08	.32	131.25	.65	.55	.48	.48	.59
16	127.41	127.71	129.51	130.66	129.40	132.28	130.29	128.56	127.70	127.47	127.46	127.55
17	.41	128.14	.81	.50	.92	.09	129.66	.49	.69	.47	.51	.56
18	.40	.55	130.39	.43	130.34	131.89	.32	.41	.90	.54	.57	.52
19	.40	.95	131.44	.48	.58	.63	.17	.33	.85	.47	.57	.50
20	.40	129.04	132.29	.42	.77	.43	.06	.24	.77	.50	.57	.49
21	127.40	129.17	132.85	130.24	131.09	131.36	128.94	128.16	127.71	127.48	127.55	127.47
22	.40	.11	133.31	.09	.62	.59	.85	.07	.69	.47	.51	.46
23	.40	.08	.81	129.84	132.05	132.04	.80	.00	.73	.44	.48	.46
24	.41	128.98	134.33	.52	.23	.59	.77	127.99	.73	.55	.48	.46
25	.43	.75	.83	.26	.21	133.19	.69	.98	.78	.55	.49	.48
26	127.42	128.52	135.18	129.09	132.05	133.68	128.61	127.95	127.68	127.52	127.48	127.49
27	.41	.27	.41	128.93	131.91	134.00	.50	.92	.66	.51	.48	.52
28	.40	.05	.57	.75	.74	.28	.48	.91	.60	.53	.47	.56
29	.39	127.99	.66	.68	.57	.87	.47	.87	.61	.51	.44	.51
30	.39	.90	.68	.60	.47	135.67	.67	.84	.69	.47	-	.49
31	-	.81	-	.50	.33	-	.89	-	.64	.44	-	.49
Mean	127.41	128.14	130.71	131.52	129.79	132.22	131.79	128.59	127.74	127.53	127.53	127.51
Max.	127.45	129.17	135.68	135.66	132.23	135.67	136.25	129.40	127.88	127.64	127.67	127.62
Min.	127.39	127.39	127.76	128.50	127.87	131.18	128.47	127.84	127.55	127.44	127.44	127.42

WATER YEAR 1971 : Max. 136.25 m. Min. 127.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.029	0.018	0.58	133	2.55	28	214	5.86	0.62	0.11	0.035	0.032
2	0.020	0.020	0.60	127	2.05	28	240	6.28	0.62	0.12	0.080	0.026
3	0.020	0.020	0.68	117	1.67	29	224	6.77	0.60	0.18	0.11	0.047
4	0.023	0.035	0.66	109	1.31	30	194	7.68	0.58	0.28	0.11	0.095
5	0.026	0.125	0.58	99	1.10	31	164	8.66	0.58	0.22	0.14	0.047
6	0.026	0.170	0.58	88	1.40	32	141	8.90	0.32	0.15	0.34	0.044
7	0.026	1.70	0.56	78	1.01	33	127	8.58	0.76	0.15	0.34	0.12
8	0.029	2.80	0.54	68	0.83	33	116	8.03	0.72	0.15	0.32	0.065
9	0.026	2.10	0.52	58	0.78	33	106	7.33	0.60	0.17	0.14	0.050
10	0.026	1.25	0.68	48	0.74	33	94	6.63	0.38	0.18	0.12	0.080
11	0.035	0.70	1.43	41	1.07	35	83	6.00	0.64	0.18	0.12	0.24
12	0.035	0.48	2.55	37	1.90	37	71	5.30	0.58	0.080	0.12	0.20
13	0.029	0.34	4.05	33	3.65	40	58	4.70	0.56	0.080	0.12	0.14
14	0.020	0.28	5.93	30	5.00	43	44	4.25	0.20	0.050	0.12	0.12
15	0.023	0.30	7.89	26	6.56	44	29	3.95	0.12	0.044	0.044	0.18
16	0.023	0.42	9.78	22	8.90	44	17	3.50	0.40	0.041	0.038	0.12
17	0.023	1.52	12	20	13	41	11	3.15	0.38	0.041	0.065	0.14
18	0.020	3.45	18	19	18	38	8.26	2.75	0.80	0.11	0.15	0.080
19	0.020	5.65	32	19	21	34	7.19	2.35	0.70	0.041	0.15	0.050
20	0.020	6.28	44	19	23	32	6.42	1.90	0.54	0.050	0.15	0.047
21	0.020	7.19	53	17	27	31	5.58	1.58	0.42	0.044	0.12	0.041
22	0.020	6.77	60	15	34	34	5.00	1.31	0.38	0.041	0.065	0.038
23	0.020	6.56	69	13	40	40	4.70	1.10	0.46	0.032	0.044	0.038
24	0.023	5.86	80	10	43	48	4.55	1.07	0.46	0.12	0.044	0.038
25	0.029	4.45	92	7.82	43	58	4.15	1.04	0.56	0.12	0.047	0.044
26	0.026	3.30	105	6.63	40	67	3.75	0.95	0.36	0.080	0.044	0.049
27	0.023	2.05	116	5.51	38	73	3.20	0.86	0.32	0.065	0.044	0.080
28	0.020	1.25	126	4.45	36	79	3.10	0.83	0.20	0.095	0.041	0.14
29	0.018	1.07	133	4.10	33	93	3.05	0.74	0.22	0.065	0.032	0.065
30	0.018	0.80	135	3.70	32	134	4.05	0.68	0.38	0.041	–	0.047
31	–	0.62	–	3.20	30	–	5.24	–	0.28	0.032	–	0.047
Total	0.716	67.578	1,112.61	1,281.41	511.52	1,355	2,001.24	122.73	14.74	3.162	3.293	2.550
Mean	0.023	2.18	37.1	41.3	16.5	45.2	64.5	4.09	0.47	0.10	0.11	0.082
Max.	0.035	7.19	135	133	43	134	240	8.90	0.76	0.28	0.34	0.24
Min.	0.018	0.018	0.52	3.20	0.74	28	305	0.68	0.12	0.032	0.032	0.026
Runoff – mcm.	0.062	5.839	96.129	110.714	44.195	117.072	172.907	10.604	1.273	0.273	0.284	0.220

WATER YEAR 1971 : Max. 240 Min. 0.018 Mean 17.7 Annual Runoff 559,574 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.2	12.00	136.26	242				

MUN RIVER BASIN

Lam Se Bai at Phawaphutanon Bridge, Yasothon (M.32)

Location: Lat. 15^{0}-50'-20" N., Long. 104^{0}-27'-35" E., on right bank about 25 meters upstream from Phawaphutanon bridge at Tambon Pho Sai, Amphoe Khaw Khuan Kaeo, Yasothon.

Drainage Area: 1,654 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 119.90 m. (M.S.L.)

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

Location: Near the gage site

Elevation: + 128.102 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954 to date.

Rating Operation:

Period of Rating: 1965-1973

Rated by Float: -

Rated by Current Meter: 1965-1973

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

Overbank Flow Conditions: No overbank flow.

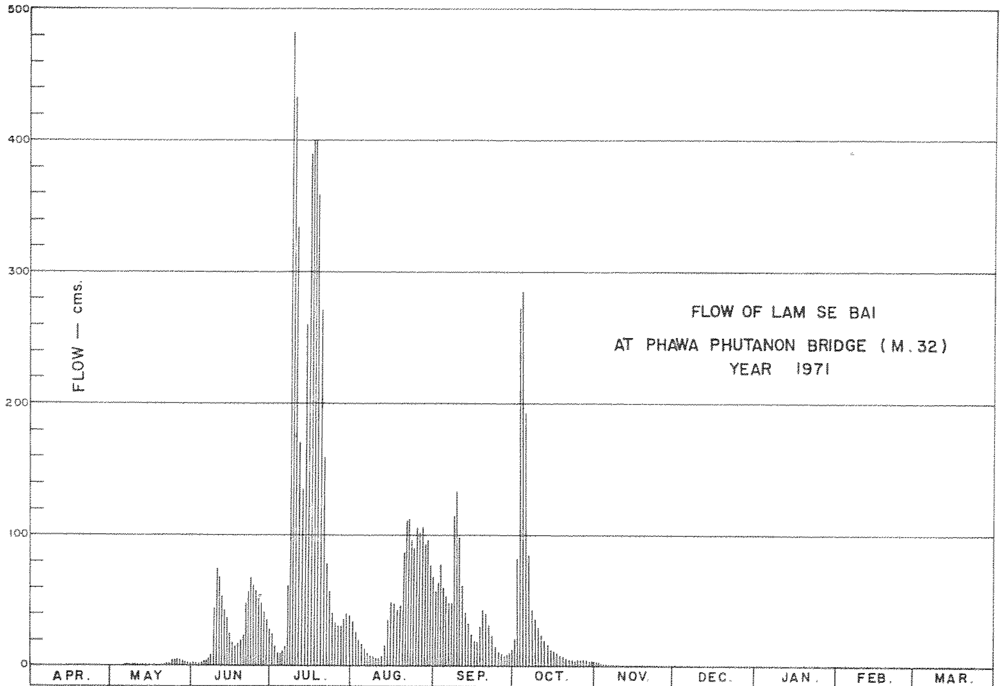
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversion for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	120.48	120.52	120.83	122.71	123.43	123.99	122.30	120.97	120.59	120.50	120.50	120.51
2	.48	.53	.81	.28	.16	124.06	124.14	.94	.58	.50	.50	.51
3	.47	.53	.83	121.89	122.74	* .29	125.67	.91	.58	.50	.50	.50
4	.47	.54	.90	.65	.41	.03	.75	.90	.58	.50	.49	.48
5	.47	.60	121.10	.72	.16	123.93	.24	.89	.58	.50	.49	.47
6	120.46	120.76	121.15	122.20	121.90	123.76	124.45	120.87	120.57	120.49	120.49	120.47
7	.46	.76	.26	123.69	.69	.81	123.98	.86	.57	.48	.49	.47
8	.45	.73	.81	125.69	.58	124.67	.71	.84	.56	.48	.51	.47
9	.45	.71	123.67	126.57	.47	.83	.51	.81	.55	.48	.53	.47
10	.44	.68	124.24	.40	.37	.51	.30	.78	.54	.48	.57	.47
11	120.44	120.65	124.18	125.82	121.32	124.07	123.07	120.78	120.56	120.49	120.57	120.47
12	.44	.63	123.92	.03	.51	123.71	122.81	.76	.57	.49	.57	.48
13	.44	.61	.66	124.85	122.27	.42	.54	.74	.57	.49	.57	.50
14	.44	.60	.32	125.46	123.50	.09	.29	.72	.56	.49	.56	.50
15	.43	.58	122.87	.95	.82	122.74	.09	.71	.56	.50	.55	.50
16	120.43	120.57	122.45	126.22	123.82	122.49	121.88	120.69	120.54	120.51	120.54	120.50
17	.42	.56	.27	.26	.74	.43	.66	.67	.56	.51	.54	.49
18	.41	.56	.33	.26	.69	123.18	.53	.66	.53	.51	.52	.48
19	.42	.56	.47	.06	.78	.71	.40	.66	.53	.51	.51	.48
20	.42	.62	.78	125.67	124.26	.65	.30	.65	.53	.50	.50	.48
21	120.42	120.80	123.68	124.91	124.62	123.43	121.21	120.63	120.53	120.49	120.50	120.48
22	.42	.85	.96	.29	.66	.11	.14	.63	.53	.49	.49	.48
23	.42	.84	124.14	123.94	.53	122.67	.10	.63	.53	.49	.48	.49
24	.42	121.06	.09	.70	.44	.24	.06	.65	.53	.49	.49	.49
25	.44	.20	123.99	.48	.59	121.91	.03	.65	.53	.49	.50	.49
26	120.46	121.16	123.94	123.28	124.56	121.70	121.11	120.64	120.53	120.49	120.50	120.49
27	.46	.06	.85	.19	.60	.55	.12	.64	.52	.49	.50	.50
28	.46	120.97	.70	.42	.46	.60	.09	.62	.51	.49	.51	.49
29	.48	.94	.45	.61	.49	.73	.05	.62	.50	.49	.51	.49
30	.50	.90	.12	.62	.40	.91	.04	.60	.50	.49	-	.48
31	-	.86	-	.56	.18	-	.00	-	.50	.49	-	.47
Mean	120.45	120.74	122.82	124.30	123.33	123.21	122.40	120.64	120.54	120.49	120.52	120.48
Max.	120.50	121.20	124.24	126.57	124.66	124.83	125.75	120.97	120.59	120.51	120.57	120.51
Min.	120.41	120.52	120.81	121.65	121.32	121.55	121.00	120.60	120.50	120.48	120.48	120.47

WATER YEAR 1971 : Max. 126.57 m. Min. 120.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.10	2.24	22	34	57	17	3.43	0.45		0.00	0.05
2		0.15	2.08	16	29	62	67	3.16	0.40			0.05
3		0.15	2.24	12	22	78	269	2.89	0.40			0.00
4		0.20	2.80	9.55	18	60	285	2.80	0.40			
5		0.50	4.60	10	15	54	192	2.72	0.40			
6		1.68	5.05	15	12	46	92	2.56	0.35			
7		1.68	6.04	43	9.91	48	57	2.48	0.35		0.00	
8		1.44	11	273	8.92	114	43	2.32	0.30		0.05	
9		1.28	42	481	7.93	133	36	2.08	0.25		0.15	
10		1.06	74	435	7.03	97	31	1.84	0.20		0.35	
11		0.85	70	300	6.58	62	27	1.84	0.30		0.35	
12		0.71	54	159	8.29	43	23	1.68	0.35		0.35	
13		0.57	41	135	16	34	20	1.52	0.35		0.35	
14		0.50	32	230	35	28	16	1.36	0.30		0.30	
15		0.40	24	327	48	22	14	1.28	0.30	0.00	0.25	
16		0.35	19	389	48	19	12	1.13	0.20	0.05	0.20	
17		0.30	16	399	45	18	9.64	0.99	0.30	0.05	0.20	
18		0.30	17	399	43	29	8.47	0.92	0.15	0.05	0.10	
19		0.30	19	351	47	43	7.30	0.92	0.15	0.05	0.05	
20		0.64	23	269	76	41	6.40	0.85	0.15	0.00	0.00	
21		2.00	42	143	109	34	5.59	0.71	0.15			
22		2.40	56	78	113	28	4.96	0.71	0.15			
23		2.32	67	55	99	21	4.60	0.71	0.15			
24		4.24	64	43	90	16	4.24	0.85	0.15			
25		5.50	57	35	105	12	3.97	0.85	0.15			
26		5.14	55	31	102	10	4.69	0.78	0.15			
27		4.24	50	29	106	8.65	4.78	0.78	0.10		0.00	
28		3.43	43	34	93	9.10	4.51	0.64	0.05		0.05	
29		3.16	34	39	96	10	4.15	0.64	0.00		0.05	
30	0.00	2.80	28	40	87	12	4.06	0.50	0.00		–	
31		2.48	–	38	70	–	3.70	–	0.00	0.00	–	0.00
Total		50.87	963.05	4,839.55	1,606.66	1,248.75	1,282.06	45.94	7.10	0.20	2.80	0.10
Mean		1.64	32.1	156	51.8	46.1	41.3	1.53	0.23	0.006	0.096	0.003
Max.		5.50	74	481	113	133	285	3.43	0.45	0.05	0.35	0.05
Min.		0.10	2.08	9.55	6.58	8.65	3.70	0.50	0.00	0.00	0.00	0.00
Runoff - mcm.		4.395	83.207	418.137	138.815	107.892	110.770	3.969	0.613	0.017	0.242	0.009

WATER YEAR 1971 : Max. 481 Min. 0.00 Mean 27.4 Annual Runoff 868.068 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 9	18.00	126.64	500				

Lam Se Bai at Ban Kaeng, Yasothon (M.32A)

Location: Lat. 15°-54'-05" N., Long. 104°-28'-20" E., on right bank at Ban Kaeng about 7 kilometers upstream from M.32 station, Amphoe Kham Khuan Kaeo, Yasothon.

Drainage Area: 1,535 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: 1968-1974

Rating Operation:

Period of Rating: 1968-1969, 1973
Rated by Float: -
Rated by Current Meter: 1968-1969, 1973

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

Overbank Flow Conditions: No overbank flow.

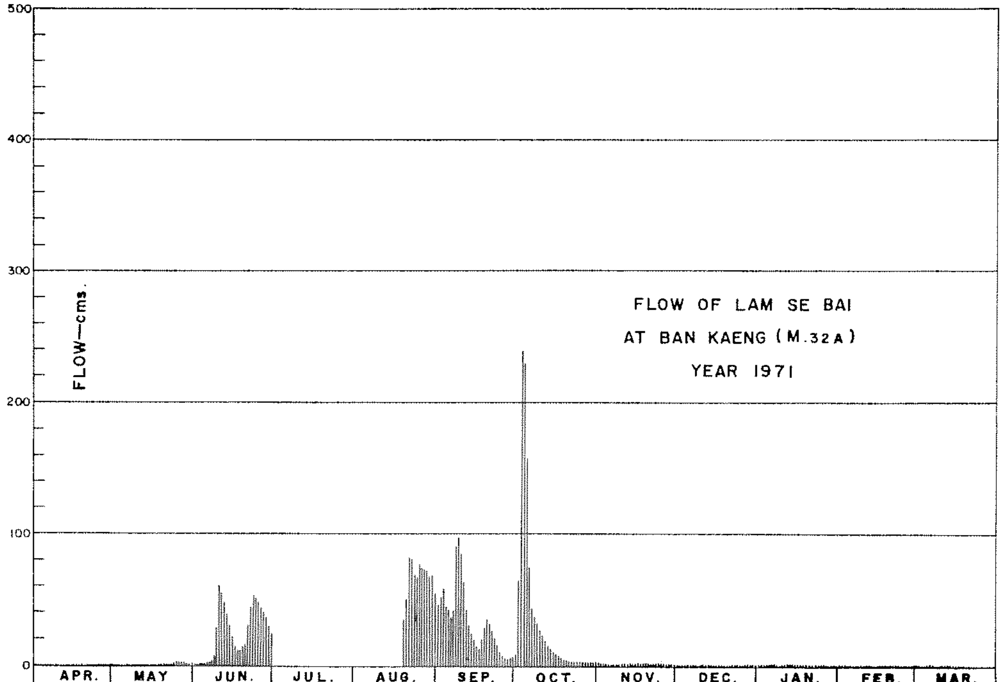
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1969. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: No records on July - August 17, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.65	0.74	1.08			4.35	2.60	1.38	1.12	0.95	0.85	0.90
2	.65	.72	.12			.54	5.10	.38	.12	.94	.86	.89
3	.65	.71	.10			.80	7.18	.38	.11	.93	.85	.87
4	.64	.71	.31			.38	.10	.38	.11	.93	.85	.86
5	.64	.78	.45			.26	6.10	.38	.12	.92	.86	.85
6	0.63	1.02	1.47			4.04	4.87	1.37	1.11	0.92	0.88	0.85
7	.63	0.95	.62			.30	.26	.36	.10	.91	.88	.84
8	.63	.94	2.35			5.50	3.97	.34	.10	.91	1.00	.84
9	.63	.89	4.38			.58	.74	.29	.08	.90	.24	.84
10	.62	.86	.81			.08	.52	.33	.20	.90	.18	.83
11	0.62	0.83	4.66			4.40	3.28	1.32	1.22	0.91	1.14	0.83
12	.61	.80	.28			3.94	.02	.29	.17	.91	.13	.85
13	.61	.78	3.94			.64	2.74	.28	.14	.90	.10	.87
14	.61	.77	.55			.30	.50	.27	.11	.89	.08	.88
15	.60	.76	.08			2.95	.31	.26	.10	.88	.06	.88
16	0.60	0.74	2.67			2.69	2.06	1.24	1.08	0.87	1.04	1.88
17	.62	.75	.52			.70	1.87	.22	.06	.87	.02	.88
18	.67	.75	.62		3.95	3.65	.75	.24	.06	.88	0.99	.88
19	.66	.74	.76		4.14	4.06	.64	.24	.07	.92	.97	.88
20	.65	1.05	3.06		.85	3.94	.56	.21	.08	.92	.96	.87
21	0.64	1.09	4.17		5.30	3.70	1.51	1.18	1.07	0.91	0.94	0.89
22	.63	.10	.35		.30	.36	.47	.23	.06	.91	.91	.90
23	.63	.12	.66		.06	2.92	.43	.28	.04	.90	.90	.89
24	.63	.45	.51		4.96	.47	.42	.25	.04	.89	.90	.89
25	.63	.50	.39		5.20	.12	.43	.24	.04	.88	.90	.88
26	0.64	1.42	4.33		5.15	1,94	1.50	1.23	1.03	0.87	0.90	0.87
27	.64	.32	.20		.11	.80	.48	,21	.02	.87	.90	.86
28	.73	.22	3.98		4.98	.86	.44	.19	.00	.87	.91	.86
29	.77	.22	.67		5.08	.98	.43	.16	0.98	.86	.90	.86
30	.74	.17	.34		4.89	2.18	.42	.14	.97	.86	–	.87
31	–	.12	–		.58	–	.39	–	.96	.85	–	.87
Mean	0.64	0.97	3.18			3.55	2.81	1.27	1.08	0.90	0.97	0.87
Max.	0.77	1.50	4.81			4.80	7.18	1.38	1.22	0.95	1.24	0.90
Min.	0.60	0.71	1.08			1.80	1.39	1.14	0.96	0.85	0.85	0.83

WATER YEAR 1971 : Max. 7.18 m. Min. 0.60 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.025	0.070	0.56			44	12	1.88	0.68	0.30	0.15	0.20
2	0.025	0.060	0.68			49	71	1.88	0.68	0.28	0.16	0.19
3	0.025	0.055	0.60			58	238	1.88	0.64	0.26	0.15	0.17
4	0.020	0.055	1.46			44	228	1.88	0.64	0.26	0.15	0.16
5	0.020	0.090	2.30			41	132	1.88	0.68	0.24	0.16	0.15
6	0.015	0.44	2.42			35	61	1.82	0.64	0.24	0.18	0.15
7	0.015	0.30	3.32			42	41	1.76	0.60	0.22	0.18	0.14
8	0.015	0.28	9.50			92	34	1.64	0.60	0.22	0.40	0.14
9	0.015	0.19	44			97	29	1.36	0.56	0.20	1.16	0.14
10	0.010	0.16	59			70	25	1.58	1.00	0.20	0.92	0.13
11	0.010	0.13	53			45	21	1.52	1.08	0.22	0.76	0.13
12	0.005	0.10	42			33	17	1.36	0.88	0.22	0.72	0.15
13	0.005	0.090	33			27	14	1.32	0.76	0.20	0.60	0.17
14	0.005	0.085	26			22	11	1.28	0.64	0.19	0.56	0.18
15	0.000	0.080	18			16	9.10	1.24	0.60	0.18	0.52	0.18
16	0.000	0.070	13			13	6.74	1.16	0.56	0.17	0.48	0.18
17	0.010	0.075	11			13	5.16	1.08	0.52	0.17	0.44	0.18
18	0.035	0.075	12		34	28	4.20	1.16	0.52	0.18	0.38	0.18
19	0.030	0.070	14		38	36	3.44	1.16	0.54	0.24	0.34	0.18
20	0.025	0.50	18		60	33	2.96	1.04	0.56	0.24	0.32	0.17
21	0.020	0.58	39		81	29	2.66	0.92	0.54	0.22	0.28	0.19
22	0.015	0.60	44		81	22	2.42	1.12	0.52	0.22	0.22	0.20
23	0.015	0.68	53		69	16	2.18	1.32	0.48	0.20	0.20	0.19
24	0.015	2.30	48		65	11	2.12	1.20	0.48	0.19	0.20	0.19
25	0.015	2.60	45		76	7.28	2.18	1.16	0.48	0.18	0.20	0.18
26	0.020	2.12	43		74	5.72	2.60	1.12	0.46	0.17	0.20	0.17
27	0.020	1.52	40		72	4.60	2.48	1.04	0.44	0.17	0.20	0.16
28	0.065	1.08	34		66	5.08	2.24	0.96	0.40	0.17	0.22	0.16
29	0.085	1.08	28		70	6.04	2.18	0.84	0.36	0.16	0.20	0.16
30	0.070	0.88	22		62	7.82	2.12	0.76	0.34	0.16	–	0.17
31	–	0.68	–		50	–	1.94	–	0.32	0.15	–	0.17
Total	0.650	17.095	759.84			952.54	990.72	40.32	18.20	6.42	10.65	5.21
Mean	0.021	0.55	25.3			31.7	31.9	1.34	0.59	0.21	0.37	0.17
Max.	0.085	2.60	59			58	238	1.88	1.08	0.30	1.16	0.20
Min.	0.00	0.055	0.56			4.60	1.94	0.76	0.32	0.15	0.15	0.13
Runoff – mcm.	0.562	1.477	65.650			82.299	85.598	3.484	1.572	0.555	0.920	0.450

WATER YEAR 1971 : Max. 238 Min. 0.60 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.3	21.00	7.38	263				

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 about 200 meters downstream from Lam Phra Phloeng Dam. 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: + 0.00 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: 1955 to date

Rating Operation:

Period of Rating: 1955-1964, 1969-1973
Rated by Float: -
Rated by Current Meter: 1955-1964, 1969-1973

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

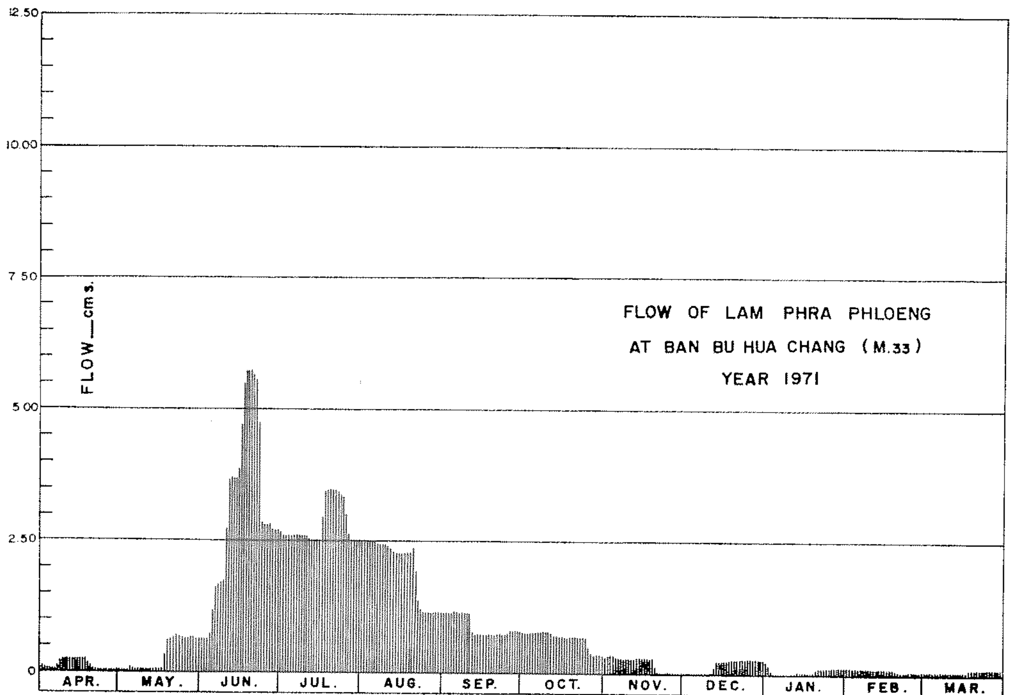
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Lam Phra Phloeng reservoir for irrigation of about 9,120 hectares.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.34	1.20	1.55	1.89	1.88	1.67	1.59	1.42	1.13	1.37	1.27	1.19
2	.24	.20	.55	.89	.88	.67	.59	.43	.13	.25	.27	.19
3	.23	.21	.55	.89	.88	.67	.59	.43	.13	.14	.27	.19
4	.22	.21	.55	.89	.88	.67	.59	.43	.15	.13	.27	.19
5	.22	.25	.67	.89	.88	.68	.59	.42	.13	.14	.27	.19
6	1.22	1.21	1.75	1.89	1.87	1.67	1.59	1.42	1.13	1.15	1.27	1.19
7	.22	.20	.76	.89	.87	.67	.59	.40	.13	.14	.27	.19
8	.34	.20	.77	.89	.87	.67	.60	.39	.16	.14	.27	.19
9	.39	.20	.77	.89	.87	.67	.60	.39	.19	.14	.27	.19
10	.39	.20	.85	.89	.87	.67	.60	.39	.16	.13	.27	.19
11	1.39	1.20	1.99	1.89	1.86	1.67	1.59	1.39	1.19	1.15	1.27	1.19
12	.39	.20	.99	.88	.86	.58	.58	.39	.38	.18	.27	.19
13	.39	.20	.99	.88	.85	.58	.57	.39	.38	.20	.27	.19
14	.39	.20	.99	.88	.85	.58	.57	.39	.38	.18	.27	.19
15	.39	.20	.99	.88	.85	.58	.57	.39	.38	.17	.27	.19
16	1.40	1.20	2.05	1.88	1.85	1.58	1.56	1.39	1.38	1.15	1.27	1.19
17	.39	.20	.13	.94	.85	.58	.56	.39	.38	.14	.25	.20
18	.39	.39	.13	.97	.85	.58	.56	.39	.39	.13	.20	.24
19	.29	.54	.13	.97	.85	.58	.56	.39	.39	.20	.20	.24
20	.22	.54	.13	.97	.86	.58	.57	.26	.39	.28	.19	.24
21	1.21	1.56	2.12	1.97	1.86	1.58	1.56	1.14	1.39	1.28	1.21	1.24
22	.21	.56	.12	.97	.77	.58	.56	.11	.39	.28	.20	.24
23	.20	.56	1.98	.97	.68	.58	.57	.13	.39	.27	.19	.24
24	.20	.56	.91	.96	.67	.58	.57	.12	.39	.27	.19	.23
25	.20	.55	.91	.96	.67	.58	.55	.14	.39	.27	.19	.23
26	1.20	1.55	1.91	1.93	1.67	1.60	1.46	1.14	1.39	1.28	1.19	1.23
27	.20	.56	.91	.88	.67	.60	.44	.16	.39	.27	.18	.23
28	.20	.56	.90	.88	.67	.60	.42	.15	.39	.27	.18	.23
29	.20	.55	.90	.88	.67	.60	.44	.13	.39	.27	.19	.23
30	.20	.55	.90	.88	.67	.60	.43	.13	.39	.27	-	.23
31	-	.55	-	.88	.67	-	.43	-	.39	.27	-	.23
Mean	1.28	1.36	1.89	1.91	1.80	1.62	1.55	1.31	1.30	1.21	1.24	1.21
Max.	1.40	1.56	2.13	1.97	1.88	1.68	1.60	1.43	1.39	1.37	1.27	1.24
Min.	1.20	1.20	1.55	1.88	1.67	1.58	1.42	1.13	1.13	1.13	1.18	1.19

WATER YEAR 1971 : Max. 2.13 m. Min. 1.13 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	0.05	0.65	2.62	2.54	1.15	0.77	0.32	0.015	0.24	0.12	0.045
2	0.09	0.05	0.65	2.62	2.54	1.15	0.77	0.35	0.015	0.10	0.12	0.045
3	0.08	0.06	0.65	2.62	2.54	1.15	0.77	0.35	0.015	0.020	0.12	0.045
4	0.07	0.06	0.65	2.62	2.54	1.15	0.77	0.35	0.025	0.015	0.12	0.045
5	0.07	0.10	1.15	2.62	2.54	1.20	0.77	0.32	0.015	0.020	0.12	0.045
6	0.07	0.06	1.60	2.62	2.46	1.15	0.77	0.32	0.015	0.025	0.12	0.045
7	0.07	0.05	1.66	2.62	2.46	1.15	0.77	0.28	0.015	0.020	0.12	0.045
8	0.20	0.05	1.72	2.62	2.46	1.15	0.80	0.27	0.030	0.020	0.12	0.045
9	0.27	0.05	1.72	2.62	2.46	1.15	0.80	0.27	0.045	0.020	0.12	0.045
10	0.27	0.05	2.30	2.62	2.46	1.15	0.80	0.27	0.030	0.015	0.12	0.045
11	0.27	0.05	3.69	2.62	2.38	1.15	0.77	0.27	0.045	0.025	0.12	0.045
12	0.27	0.05	3.69	2.54	2.38	0.74	0.74	0.27	0.25	0.040	0.12	0.045
13	0.27	0.05	3.69	2.54	2.30	0.74	0.71	0.27	0.25	0.050	0.12	0.045
14	0.27	0.05	3.69	2.54	2.30	0.74	0.71	0.27	0.25	0.040	0.12	0.045
15	0.27	0.05	3.69	2.54	2.30	0.74	0.71	0.27	0.25	0.035	0.12	0.045
16	0.28	0.05	4.50	2.54	2.30	0.74	0.68	0.27	0.25	0.025	0.12	0.045
17	0.27	0.05	5.71	3.14	2.30	0.74	0.68	0.27	0.25	0.020	0.10	0.050
18	0.27	0.27	5.71	3.47	2.30	0.74	0.68	0.27	0.27	0.015	0.050	0.090
19	0.14	0.62	5.71	3.47	2.30	0.74	0.68	0.27	0.27	0.05	0.050	0.090
20	0.07	0.62	5.71	3.47	2.38	0.74	0.71	0.11	0.27	0.13	0.045	0.090
21	0.06	0.68	5.54	3.47	2.38	0.74	0.68	0.02	0.27	0.13	0.060	0.090
22	0.06	0.68	5.54	3.47	1.72	0.74	0.68	0.005	0.27	0.13	0.050	0.090
23	0.05	0.68	3.58	3.47	1.20	0.74	0.71	0.015	0.27	0.12	0.045	0.090
24	0.05	0.68	2.81	3.36	1.15	0.74	0.71	0.010	0.27	0.12	0.045	0.080
25	0.05	0.65	2.81	3.36	1.15	0.74	0.65	0.020	0.27	0.12	0.045	0.080
26	0.05	0.65	2.81	3.03	1.15	0.80	0.41	0.020	0.27	0.13	0.045	0.080
27	0.05	0.68	2.81	2.54	1.15	0.80	0.37	0.030	0.27	0.12	0.040	0.080
28	0.05	0.68	2.70	2.54	1.15	0.80	0.32	0.025	0.27	0.12	0.040	0.080
29	0.05	0.65	2.70	2.54	1.15	0.80	0.37	0.015	0.27	0.12	0.045	0.080
30	0.05	0.65	2.70	2.54	1.15	0.80	0.35	0.015	0.27	0.12	–	0.080
31	–	0.65	–	2.54	1.15	–	0.35	–	0.27	0.12	–	0.080
Total	4.29	9.77	92.54	87.93	62.74	27.06	20.46	5.815	5.545	2.275	2.580	1.950
Mean	0.14	0.31	3.08	2.84	2.02	0.90	0.66	0.19	0.18	0.073	0.089	0.063
Max.	0.28	0.68	5.71	3.47	2.54	1.20	0.80	0.35	0.27	0.24	0.12	0.090
Min.	0.05	0.05	0.65	2.54	1.15	0.74	0.32	0.015	0.015	0.015	0.040	0.045
Runoff - mcm.	0.371	0.844	7.995	7.597	5.421	2.338	1.768	0.502	0.479	0.196	0.223	0.168

WATER YEAR 1971 : Max. 571 Min. 0.015 Mean 0.88 Annual Runoff 27.903 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun.17	19.00	2.15	6.05				

MUN RIVER BASIN

Lam Sieo Noi at Tambon Sung Yang, Roi Et (M.35)

Location: Lat. 15°–38'–49" N., Long. 103°–45'–00" E., on right bank at highway bridge, Tambon Sung Yang, Amphoe Suwannaphum, Roi Et.

Drainage Area: 672 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S.

Location: On the right bank at abutment of the bridge.
Elevation: + 4.786 m. (A.D.)

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

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

Period of Available Gage Records: 1971 to date

Rating Operation:

Period of Rating: 1971 to date
Rated by Float: –
Rated by Current Meter: 1971 to date

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

Overbank Flow Conditions: No overbank flow.

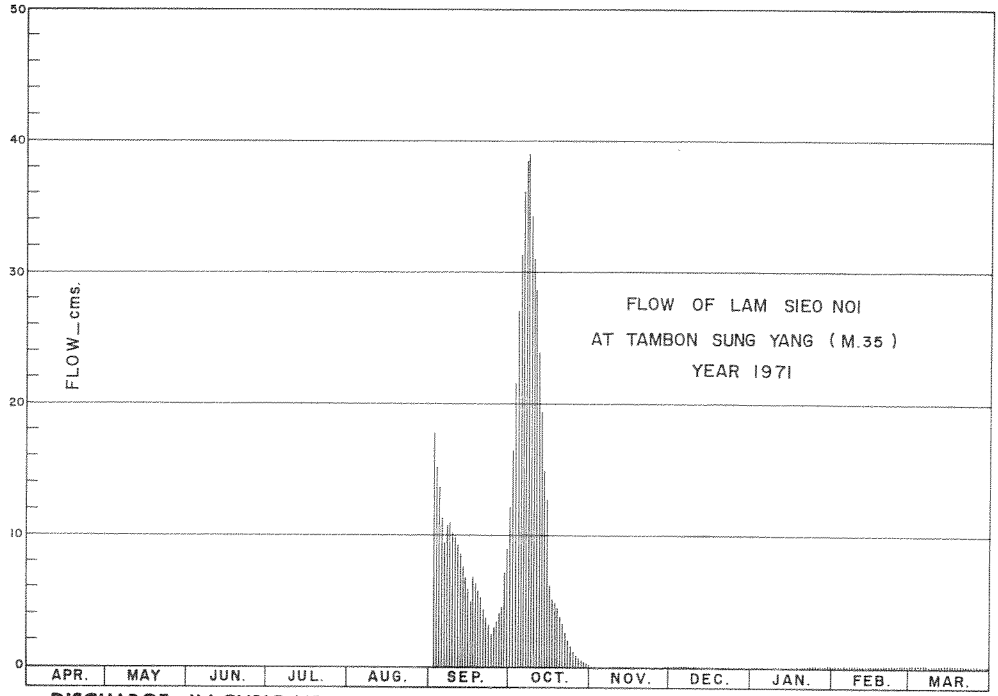
General Description: Records fair. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

Remarks: Stream gaging began on September 1, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						2.15	2.04	1.52	1.29	1.11	0.93	0.97
2						.11	.17	.50	.28	.10	.92	.96
3						.07	.24	.46	.28	.10	.92	.96
4						.05	.29	.40	.27	.09	.91	.95
5						.02	.35	.35	.27	.09	.93	.95
6		Stream Gaging began				1.98	2.40	1.32	1.26	1.08	0.93	0.94
7		on September 1, 1971.				2.02	.41	.33	.26	.07	1.00	.94
8						.02	.39	.35	.25	.07	.02	.93
9						.00	.34	.36	.24	.06	.03	.92
10						1.99	.30	.36	.23	.05	.03	.91
11						1.98	2.26	1.37	1.22	1.05	1.03	0.90
12						.96	.18	.37	.22	.04	.03	.90
13						.93	.12	.36	.21	.04	.02	.89
14						.91	.07	.36	.20	.03	.01	.88
15						.87	.04	.36	.20	.03	.01	.88
16						1.84	1.87	1.36	1.19	1.02	1.01	0.87
17						.91	.85	.36	.18	.01	.00	.87
18						.88	.84	.35	.17	.00	.00	.86
19						.87	.80	.34	.16	.00	.99	.86
20						.84	.80	.34	.16	.00	.98	.85
21						1.81	1.77	1.34	1.16	1.00	0.98	0.85
22						.78	.74	.33	.15	0.99	.97	.84
23						.77	.70	.33	.15	.98	.96	.84
24						.74	.67	.33	.14	.97	.95	.83
25						.78	.64	.33	.14	.97	1.01	.82
26						1.80	1.61	1.32	1.15	0.96	1.00	0.83
27						.82	.60	.32	.14	.95	0.99	.82
28						.83	.59	.32	.13	.95	.98	.82
29						.92	.57	.31	.13	.95	.98	.82
30						.99	.56	.30	.13	.94	–	.81
31						–	.54	–	.12	.93	–	.80
Mean						1.92	1.96	1.36	1.20	1.02	0.98	0.88
Max.						2.15	2.41	1.52	1.29	1.11	1.09	0.97
Min.						1.74	1.54	1.30	1.12	0.93	0.91	0.80

WATER YEAR 1971 : Max. 2.41 m. Min. 0.80 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						18	12	0.14	0.00	0.00	0.00	0.00
2						16	19	0.00				
3						14	24					
4						13	28					
5						11	33					
6						9.54	38					
7						11	39					
8						11	37					
9						10	32					
10						9.92	29					
11		Stream Gaging began				9.54	26					
12		on September 1, 1971.				8.78	20					
13						7.64	16					
14						6.88	14					
15						5.69	12					
16						4.88	5.69					
17						6.88	5.15					
18						5.96	4.88					
19						5.69	4.61					
20						4.88	3.80					
21						4.07	3.20					
22						3.40	2.60					
23						3.80	1.80					
24						2.60	1.47					
25						3.40	1.14					
26						3.80	0.81					
27						4.34	0.70					
28						4.61	0.63					
29						7.26	0.49				0.00	
30						9.92	0.42	0.00				
31						–	0.28	–	0.00	0.00	–	0.00
Total						236.88	416.67	0.14	0.00	0.00	0.00	0.00
Mean						7.90	13.4	0.005	0.00	0.00	0.00	0.00
Max.						18	39	0.14	0.00	0.00	0.00	0.00
Min.						2.60	0.28	0.00	0.00	0.00	0.00	0.00
Runoff ~ mcm.						20.466	36.000	0.012	0.00	0.00	0.00	0.00

WATER YEAR 1971 : Max. 39 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7	6.00	2.41	39				

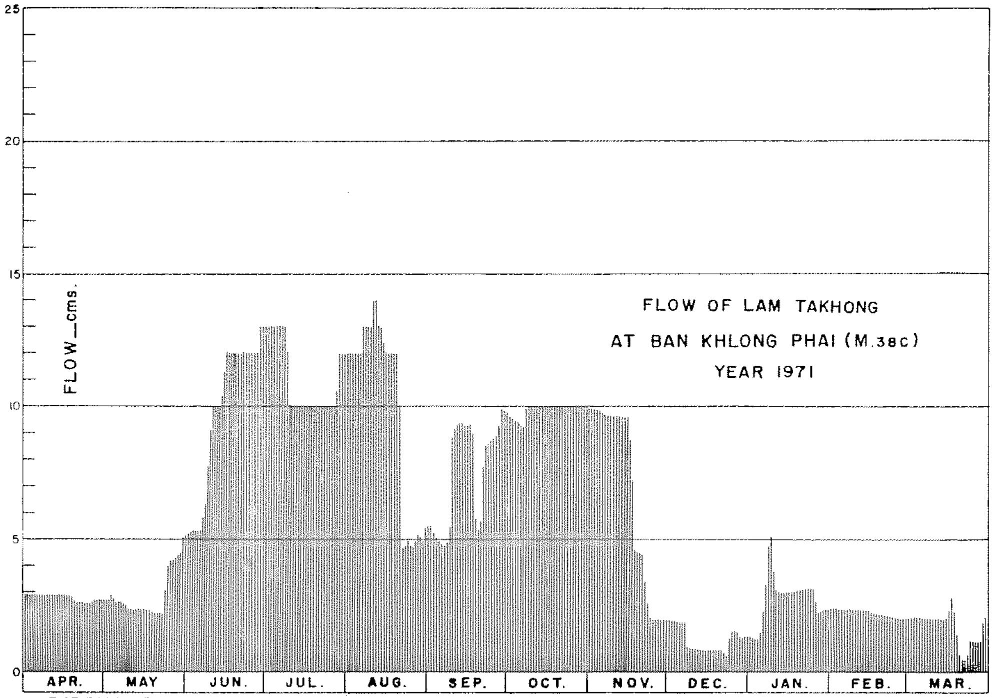
Lam Takhong at Ban Khlong Phai, Nakhon Ratchasima (M. 38C)

Location:	Lat. 14°-52'-06" N., Long 101°-33'-53" E., on left bank about 500 meters downstream from Lam Takhong Dam, Tambon Khlong Phai, Amphoe Sikhiu, Nakhon Ratchasima.
Drainage Area:	1,292 sq.km.
Type of Gage:	Water-stage recorder
Zero Gage at Bottom at:	+ 242.00 m. (M.S.L.)
Bench Mark:	B.M. – H.S.
Location:	On left bank along the measuring line.
Elevation:	+ 251.841 m. (M.S.L.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1962 to date
Rating Operation:	
Period of Rating:	1962-1965, 1967 to date
Rated by Float:	–
Rated by Current Meter:	1962-1965, 1967 to date
Stability of Channel Regimes:	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 1971. Flow regulated by Lam Takhong reservoir diverted for irrigation of about 62,080 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	244.54	244.48	245.01	246.36	246.18	245.08	245.80	245.84	244.27	244.07	244.39	244.31
2	.54	.48	.02	.36	.18	.08	.78	.83	.27	.06	.39	.31
3	.54	.50	.04	.36	.19	.02	.76	.83	.27	.06	.39	.31
4	.54	.50	.04	.35	.19	244.98	.76	.83	.26	.05	.39	.31
5	.54	.46	.04	.35	.18	.95	.75	.82	.26	.18	.39	.31
6	244.54	244.47	245.05	246.34	246.22	244.94	245.73	245.81	244.26	244.36	244.39	244.31
7	.54	.47	.14	.33	.41	.93	.72	.80	.26	.61	.39	.31
8	.54	.45	.27	.34	.40	.95	.82	.80	243.95	.93	.38	.31
9	.54	.43	.48	.22	.41	245.08	.90	.79	.91	245.00	.38	.31
10	.54	.39	.62	245.87	.42	.65	.89	.79	.91	244.71	.38	.31
11	244.54	244.39	245.89	245.91	246.44	245.72	245.88	245.79	243.91	244.55	244.38	244.31
12	.54	.39	.93	.93	.44	.73	.88	.79	.91	.55	.38	.31
13	.54	.39	.93	.93	.32	.75	.88	.79	.90	.55	.38	.31
14	.54	.39	.94	.93	.24	.73	.88	.79	.89	.55	.38	.32
15	.54	.39	246.07	.93	.24	.73	.88	.79	.89	.55	.37	.32
16	244.54	244.39	246.18	245.93	246.24	245.73	245.87	245.79	243.89	244.55	244.36	244.36
17	.54	.39	.20	.93	.24	.74	.86	.46	.89	.56	.35	.51
18	.52	.39	.23	.93	.24	.64	.86	244.89	.89	.57	.35	.41
19	.48	.40	.22	.93	.24	.12	.86	.89	.89	.57	.35	.12
20	.46	.40	.22	.93	.23	.04	.86	.88	.89	.57	.34	243.82
21	244.54	244.40	246.24	245.93	245.77	245.14	245.86	244.87	243.89	244.58	244.34	243.78
22	.46	.40	.23	.93	244.90	.59	.86	.62	.84	.58	.34	.78
23	.45	.38	.23	.94	.92	.61	.87	.43	.81	.58	.33	.85
24	.44	.59	.22	.94	.97	.62	.86	.31	244.03	.58	.32	244.16
25	.44	.77	.22	.94	.92	.64	.86	.29	.16	.58	.32	.17
26	244.46	244.83	246.22	245.92	244.92	245.66	245.85	244.29	244.15	244.46	244.32	244.17
27	.48	.84	.22	.92	.97	.67	.85	.29	.13	.37	.31	.17
28	.48	.86	.22	.88	245.00	.77	.86	.28	.07	.37	.31	.17
29	.48	.89	.29	246.16	244.97	.83	.86	.28	.07	.38	.31	.26
30	.48	.94	.37	.16	.94	.81	.85	.27	.07	.38	–	.32
31	–	245.01	–	.16	245.07	–	.85	–	)7	.38	–	.24
Mean	244.50	244.53	245.83	246.06	245.83	245.44	245.84	244.19	244.02	244.47	244.36	244.27
Max.	244.54	245.01	246.37	246.36	246.44	245.83	245.90	245.84	244.27	244.93	244.39	244.51
Min.	244.44	244.38	245.01	246.93	244.90	244.93	245.75	244.27	243.81	244.05	244.31	243.78

WATER YEAR 1971 : Max. 246.44 m. Min. 243.78 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.96	2.72	5.15	13	12	5.50	9.70	9.94	1.91	1.31	2.36	2.04
2	2.96	2.72	5.20	13	12	5.50	9.58	9.88	1.91	1.28	2.36	2.04
3	2.96	2.80	5.30	13	12	5.20	9.46	9.88	1.91	1.28	2.36	2.04
4	2.96	2.80	5.30	13	12	5.00	9.46	9.88	1.88	1.25	2.36	2.04
5	2.96	2.64	5.30	13	12	4.85	9.40	9.82	1.88	1.64	2.36	2.04
6	2.96	2.68	5.35	13	12	4.80	9.28	9.76	1.88	2.24	2.36	2.04
7	2.96	2.68	5.80	13	13	4.75	9.22	9.70	1.88	3.24	2.36	2.04
8	2.96	2.60	6.52	13	13	4.85	9.82	9.70	0.98	4.75	2.32	2.04
9	2.96	2.52	7.78	12	13	5.50	10	9.64	0.87	5.10	2.32	2.04
10	2.96	2.36	8.62	10	13	8.80	10	9.64	0.87	3.65	2.32	2.04
11	2.96	2.36	10	10	14	9.22	10	9.64	0.87	3.00	2.32	2.04
12	2.96	2.36	10	10	14	9.28	10	9.64	0.87	3.00	2.32	2.04
13	2.96	2.36	10	10	13	9.40	10	9.64	0.84	3.00	2.32	2.04
14	2.96	2.36	10	10	12	9.28	10	9.64	0.82	3.00	2.32	2.08
15	2.96	2.36	11	10	12	9.28	10	9.64	0.82	3.00	2.28	2.08
16	2.96	2.36	12	10	12	9.28	10	9.64	0.82	3.00	2.24	2.24
17	2.96	2.36	12	10	12	9.34	10	7.66	0.82	3.04	2.20	2.84
18	2.88	2.36	12	10	12	8.74	10	4.55	0.82	3.08	2.20	2.44
19	2.72	2.40	12	10	12	5.70	10	4.55	0.82	3.08	2.20	1.46
20	2.64	2.40	12	10	12	5.30	10	4.50	0.82	3.08	2.16	0.65
21	2.64	2.40	12	10	9.52	5.80	10	4.45	0.82	3.12	2.16	0.56
22	2.64	2.40	12	10	4.60	8.44	10	3.28	0.69	3.12	2.16	0.56
23	2.60	2.32	12	10	4.70	8.56	10	2.52	0.62	3.12	2.12	0.72
24	2.56	3.16	12	10	4.95	8.62	10	2.04	1.19	3.12	2.08	1.58
25	2.56	3.95	12	10	4.70	8.74	10	1.97	1.58	3.12	2.08	1.61
26	2.64	4.25	12	10	4.70	8.66	10	1.97	1.55	3.64	2.08	1.61
27	2.72	4.30	12	10	4.95	8.92	10	1.97	1.49	2.28	2.04	1.61
28	2.72	4.40	12	10	5.10	9.52	10	1.94	1.31	2.28	2.04	1.61
29	2.72	4.55	13	12	4.97	9.88	10	1.94	1.31	2.32	2.04	1.88
30	2.72	4.80	13	12	4.80	9.76	10	1.91	1.31	2.32	–	2.08
31	–	5.15	–	12	5.45	–	10	–	1.31	2.32	–	1.82
Total	85.08	91.88	293.32	342	307.44	226.67	305.92	200.93	37.47	85.78	64.84	55.95
Mean	2.83	2.96	9.77	11.03	9.91	7.55	9.86	6.69	1.20	2.76	2.23	1.80
Max.	2.96	5.15	13	13	14	9.88	10	9.94	1.91	4.75	2.36	2.84
Min.	2.56	2.32	515	10	4.60	4.75	9.40	1.91	0.62	1.25	2.04	0.56
Runoff - mcm.	7.350	7.938	25.342	29.548	26.562	19.584	26.431	17.360	3.237	7.411	5.602	4.834

WATER YEAR 1971 : Max. 14 Min. 0.56 Mean 5.73 Annual Runoff 181.204 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.11	1.00	246.44	14				

MUN RIVER BASIN

Lam Sieo Yai at Tambon Kaset Wisai, Roi Et (M.41)

Location: Lat. 15°-38'-46" N., Long. 103°-33'-35" E., on left bank at Tambon Kaset Wisai, Amphoe Kaset Wisai, Roi Et.

Drainage Area: 1,310 sq.km.

Type of Gage: Staff gage and Records.

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

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

Location: At the foot of the ladder of automatic gage building.
Elevation: + 3.119 m. (A.D.)

Gage Reading Frequency: 3-time daily reading at 06.00, 12.00 and 18.00 hours. Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 and 24 hourly readings.

Period of Available Gage Records: 1971 to date

Rating Operation:

Period of Rating: 1971 to date
Rated by Float: -
Rated by Current Meter: 1971 to date

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

Overbank Flow Conditions: Overbank flow starts at elevation + 1.90 m. (A.D.)

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

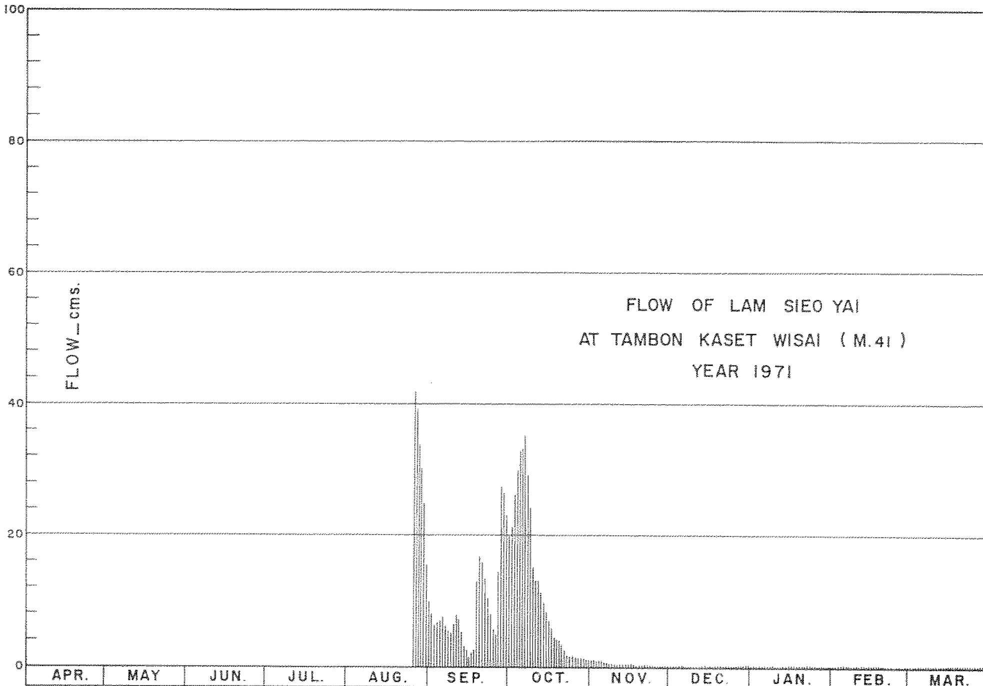
Remarks: Stream gaging station began on August 27, 1971.

Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						2.19	2.40	1.78	1.36	1.21	1.09	1.04
2						.12	.38	.77	.36	.20	.08	.04
3						.07	.47	.76	.34	.19	.07	.03
4						.08	.52	.73	.34	.19	.07	.02
5						.11	.56	.71	.33	.19	.08	.02
6						2.11	2.57	1.69	1.32	1.18	1.08	1.02
7						.07	.58	.67	.31	.18	.13	.01
8						.04	.55	.65	.31	.18	.14	.01
9						.03	.48	.62	.29	.17	.14	.00
10						.10	.35	.59	.29	.16	.14	0.99
11						2.12	2.25	1.58	1.28	1.16	1.13	0.99
12						.09	.24	.56	.28	.16	.12	.99
13						.04	.22	.54	.29	.16	.11	.99
14						1.97	.19	.52	.28	.15	.11	.99
15						.95	.15	.50	.27	.15	.11	.98
16						1.83	2.11	1.49	1.27	1.14	1.11	0.98
17						.92	.05	.47	.26	.14	.10	.98
18						.95	.02	.46	.25	.13	.10	.98
19						2.26	.00	.46	.24	.13	.10	.97
20						.34	.00	.44	.24	.12	.09	.98
21						2.33	1.98	1.43	1.23	1.12	1.09	0.97
22						.29	.95	.42	.23	.11	.08	.97
23						.20	.91	.42	.22	.11	.08	.97
24						.13	.87	.42	.22	.11	.08	.97
25						.05	.89	.41	.22	.11	.08	.97
26						2.01	1.89	1.41	1.23	1.11	1.08	0.96
27					2.64	.36	.85	.41	.22	.10	.06	.96
28					.58	.45	.85	.40	.22	.10	.06	.96
29					.59	.51	.83	.39	.22	.10	.05	.96
30					.49	.47	.79	.37	.21	.09	-	.95
31					.27	-	.79	-	.21	.09	-	.95
Mean						2.14	2.15	1.53	1.27	1.14	1.09	0.99
Max.						2.51	2.58	1.78	1.36	1.21	1.14	1.04
Min.						1.83	1.79	1.37	1.21	1.09	1.05	0.95

WATER YEAR 1971 : Max. 2.58 m. Min. 0.95 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						10	20	1.22	0.16	0.01		
2						8.08	20	1.18	0.16			
3						6.47	25	1.14	0.14			
4						6.78	29	1.02	0.14			
5						7.74	33	0.94	0.13			
6						7.74	33	0.87	0.12			
7						6.47	35	0.81	0.11			
8						5.54	31	0.75	0.11			
9						5.23	26	0.66	0.09			
10						7.40	18	0.58	0.09			
11						8.08	*14	0.56	0.08			
12						7.09	13	0.52	0.08			
13						5.54	12	0.48	0.09			
14						3.58	10	0.44	0.08			
15						3.10	9.10	0.40	0.07			
16						1.48	7.74	0.38	0.07			
17						2.38	5.85	0.34	0.06			
18						3.10	4.92	0.32	0.05			
19						13	4.30	0.32	0.04			
20						17	4.30	0.28	0.04			
21						17	3.82	0.26	0.03			
22						15	3.10	0.24	0.03			
23						11	2.14	0.24	0.02			
24						8.42	1.72	0.24	0.02			
25						5.85	1.84	0.22	0.02			
26						4.61	1.84	0.22	0.03			
27					42 *	18	1.60	0.22	0.02			
28					35	24	1.60	0.20	0.02			
29					35	28	1.48	0.19	0.02			
30					27	25	1.26	0.17	0.01			
31					14	–	1.26	–	0.01			
Total						292.68	376.87	15.41	2.14	0.01	0.00	0.00
Mean						9.77	12.1	0.51	0.069	0.00	0.00	0.00
Max.						28	35	1.22	0.16	0.01	–	–
Min.						1.48	1.26	0.17	0.01	0.00	–	–
Runoff - mcm.						25.315	32.561	1.330	0.185	0.00	0.00	0.00

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

MUN RIVER BASIN

Lam Takhong at Khao Yai (Ban Bu Si), Nakhon Ratchasima (M. 43)

Location: Lat. 14°-31'-40" N., Long. 101°-24'-09" E., on left bank infront of highway maintenance office, Ban Mu Si, Amphoe Pak Chong, Nakhon Ratchasima.

Drainage Area: 235 Sqkm.

Type of Gage: Water Stage recorder.

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

Bench Mark: B.M. – H.S

Location. Near the ladder of automatic gage buiding

Elevation. + 5.592 m. (A.D)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1965 to date.

Rating Operation

Period of Rating: 1965, 1967-1973
Rated by Float:
Rated by Current Meter: 1965, 1967-1973

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

Overbank Flow Conditions: No overbank flow.

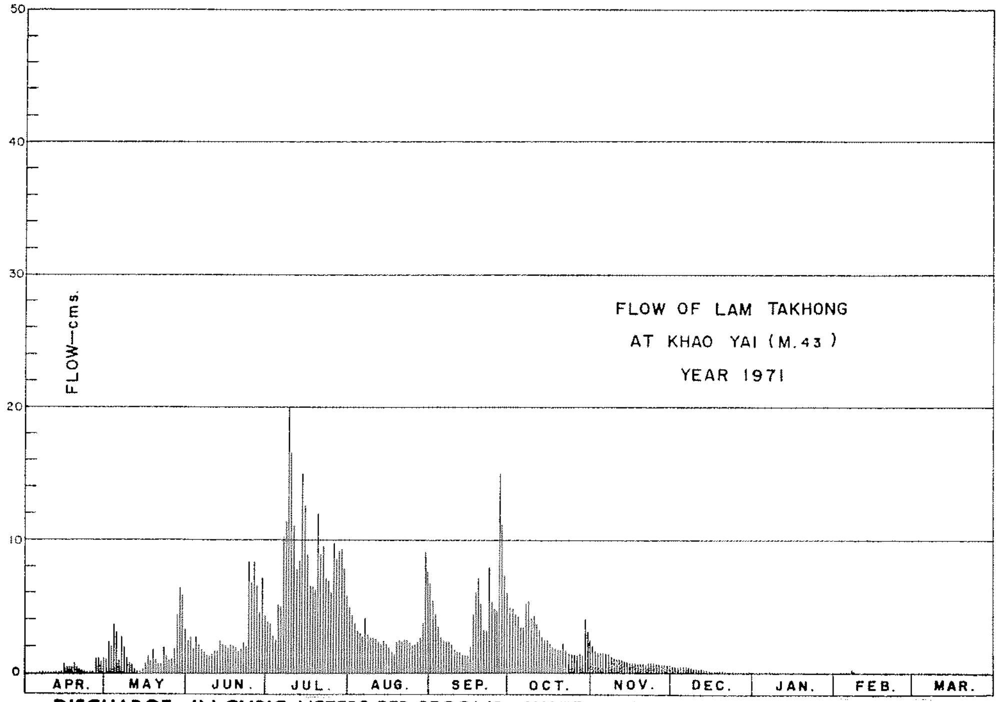
General Deseription: Records good. Stage – discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	0.62	0.79	0.92	1.01	1.11	1.01	0.75	0.56	0.48	0.44	0.26
2	.26	.79	.82	.91	0.95	.00	.01	.72	.55	.47	.44	.25
3	.27	.75	.73	.82	.90	0.95	0.97	.71	.55	.47	.44	.25
4	.27	.90	.83	.79	.86	.87	.96	.71	.55	.46	.46	.26
5	.27	.84	.75	1.02	.85	.82	.89	.71	.55	.45	.48	.26
6	0.27	0.59	0.73	0.99	0.83	0.80	0.89	0.70	0.55	0.45	0.49	.27
7	.25	.82	.70	1.34	.94	.79	1.03	.70	.55	.45	.53	.27
8	.25	.71	.68	.44	.83	.79	.05	.68	.54	.44	.48	.27
9	.27	.65	.67	.76	.82	.76	0.94	.65	.53	.44	.47	.26
10	.27	.59	.69	.48	.82	.73	.96	.64	.53	.44	.47	.26
11	0.33	0.56	0.72	1.39	0.90	0.71	0.90	0.63	0.53	0.44	0.47	0.25
12	.37	.51	.72	.18	.87	.70	.87	.63	.53	.43	.46	.25
13	.37	.46	.80	.23	.86	.68	.83	.62	.51	.43	.45	.25
14	.42	.46	.76	.55	.80	.68	.81	.61	.51	.42	.44	.25
15	.58	.52	.75	.41	.77	.68	.80	.60	.50	.42	.44	.25
16	0.54	0.60	0.74	1.19	0.74	0.76	0.77	0.60	0.50	0.41	0.44	0.29
17	.54	.67	.77	.12	.71	.99	.75	.60	.50	.41	.43	.28
18	.55	.60	.76	.12	.70	1.09	.74	.59	.50	.41	.42	.28
19	.59	.72	.74	.10	.80	.16	.73	.59	.50	.41	.41	.27
20	.53	.61	.71	.43	.81	0.98	.74	.59	.49	.41	.39	.25
21	0.50	0.57	0.74	1.26	0.81	0.87	0.78	0.59	0.49	0.40	0.40	0.27
22	.45	.59	.78	.29	.80	.85	.73	.60	.49	.40	.39	.29
23	.44	.74	.74	.15	.81	1.21	.70	.60	.49	.40	.39	.27
24	.42	.66	1.23	.14	.77	.03	.69	.60	.49	.39	.37	.26
25	.40	.62	.13	.07	.76	.00	.69	.59	.49	.42	.35	.25
26	0.39	0.64	1.23	1.31	0.77	1.00	0.69	0.58	0.49	0.42	0.35	0.25
27	.65	.80	.10	.24	.80	.56	.70	.57	.49	.42	.32	.25
28	.65	.98	0.96	.27	.83	.28	.69	.57	.49	.42	.29	.25
29	.57	1.11	1.16	.28	.94	.15	.94	.57	.49	.43	.26	.25
30	.63	.07	0.96	.15	1.27	.06	.86	.57	.49	.43	–	.30
31	–	0.85	–	.07	.17	–	.79	–	.49	.45	–	.39
Mean	0.41	0.69	0.82	1.20	0.85	0.91	0.83	0.62	0.51	0.42	0.43	0.26
Max.	0.65	1.11	1.23	1.76	1.27	1.56	1.05	0.75	0.56	0.48	0.53	0.39
Min.	0.25	0.46	0.67	0.79	0.70	0.68	0.69	0.57	0.49	0.39	0.26	0.25

WATER YEAR : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.94	2.31	3.84	4.94	6.36	4.94	1.95	0.56	0.17	0.10	0.00
2		2.31	2.64	3.72	4.20	4.80	4.94	1.68	0.50	0.15	0.10	
3		1.95	1.77	2.64	3.60	4.20	4.44	1.59	0.50	0.15	0.10	
4		3.60	2.76	2.31	3.12	3.24	4.32	1.59	0.50	0.14	0.14	
5		2.88	1.95	5.08	3.00	2.64	3.48	1.59	0.50	0.12	0.17	
6		0.74	1.77	4.68	2.76	2.40	3.48	1.50	0.50	0.12	0.18	
7		2.64	1.50	10	4.08	2.31	5.22	1.50	0.50	0.12	0.38	
8		1.59	1.36	12	2.76	2.31	5.50	1.36	0.44	0.10	0.17	
9		1.15	1.29	20	2.64	2.04	4.08	1.15	0.38	0.10	0.15	
10		0.74	1.43	13	2.64	1.77	4.32	1.08	0.38	0.10	0.15	
11	0.00	0.56	1.68	11	3.60	1.59	3.60	1.01	0.38	0.10	0.15	
12	0.02	0.26	1.68	7.48	3.24	1.50	3.24	1.01	0.38	0.09	0.14	
13	0.02	0.14	2.40	8.34	3.12	1.36	2.76	0.94	0.26	0.09	0.12	
14	0.07	0.14	2.04	15	2.40	1.36	2.52	0.87	0.26	0.07	0.10	
15	0.68	0.32	1.95	12	2.13	1.36	2.40	0.80	0.20	0.07	0.10	
16	0.44	0.80	1.86	7.64	1.86	2.04	2.13	0.80	0.20	0.06	0.10	
17	0.44	1.29	2.13	6.52	1.59	4.68	1.95	0.80	0.20	0.06	0.09	
18	0.50	0.80	2.04	6.52	1.50	6.06	1.86	0.74	0.20	0.06	0.07	
19	0.74	1.68	1.86	6.20	2.40	7.16	1.77	0.74	0.20	0.06	0.06	
20	0.38	0.87	1.59	12	2.52	4.56	1.86	0.74	0.18	0.06	0.03	
21	0.20	0.62	1.86	8.88	2.52	3.24	2.22	0.74	0.18	0.04	0.04	
22	0.12	0.74	2.22	9.42	2.40	3.00	1.77	0.80	0.18	0.04	0.03	
23	0.10	1.86	1.86	7.00	2.52	7.98	1.50	0.80	0.18	0.04	0.03	
24	0.07	1.22	8.34	6.84	2.13	5.22	1.43	0.80	0.18	0.03	0.02	
25	0.04	0.94	6.68	5.78	2.04	4.80	1.43	0.74	0.18	0.07	0.00	
26	0.03	1.08	8.34	9.78	2.13	4.80	1.43	0.68	0.18	0.07	0.00	
27	1.15	2.40	6.20	8.52	2.40	15	1.50	0.62	0.18	0.07	0.00	
28	1.15	4.56	4.32	9.06	2.76	9.24	1.43	0.62	0.18	0.07	0.00	
29	0.62	6.36	7.16	9.24	4.08	7.00	4.08	0.62	0.18	0.09	0.00	
30	1.01	5.78	4.32	7.00	9.06	5.64	3.12	0.62	0.18	0.09	–	0.00
31	–	3.00	–	5.78	7.32	–	2.31	–	0.18	0.12	–	0.03
Total	7.778	53.96	89.31	257.27	97.46	129.66	91.03	30.48	9.20	2.706	2.718	0.032
Mean	0.25	1.74	2.97	8.29	3.14	4.32	2.93	1.01	0.29	0.087	0.097	0.001
Max.	1.15	6.36	8.34	20	9.06	15	5.50	1.95	0.56	0.17	0.38	0.032
Min.	0.00	0.14	1.29	2.31	1.50	1.36	1.43	0.62	0.18	0.032	0.00	0.00
Runoff - mcm.	0.672	4.662	7.716	22.228	8.420	11.203	7.865	2.633	0.795	0.234	0.235	0.003

WATER YEAR 1971 : Max. 20 Min. 0.00 Mean 2.11 Annual Runoff 66.666 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 9	04.00	2.20	33				

MUN RIVER BASIN

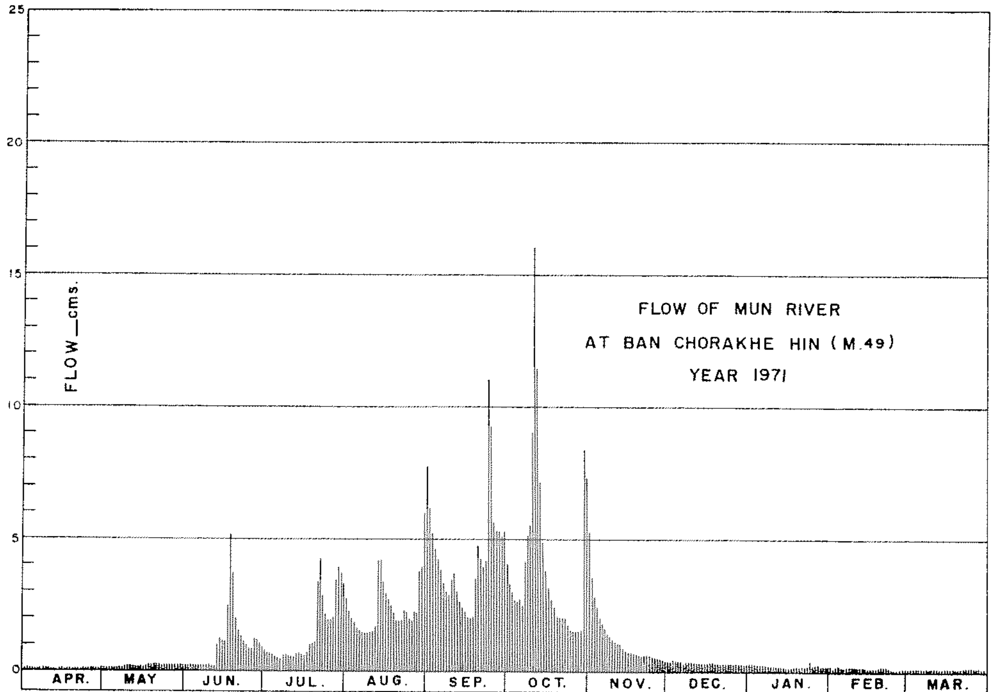
Mun River at Ban Chorakhe Hin, Nakhon Ratchasima (M. 49)

Location:	Lat. 14°-30'-32" N., Long. 102°-09'-50" E., on right bank about 3 kilometers downstream from propose damsite, Amphoe Khon Buri, Nakhon Ratchasima.
Drainage Area:	451 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 197.16 m. (M.S.L.)
Bench Mark:	B.M. H.S.
Location:	Near automatic gage building.
Elevation:	+ 202.348 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:	1965-1974
Rating Operation:	
Period of Rating:	1965-1973
Rated by Float:	-
Rated by Current Meter:	1965-1973
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	197.81	197.85	198.07	199.21	200.33	200.85	200.55	200.56	198.44	198.22	197.85	197.88
2	.87	.85	.08	198.99	.22	.70	.45	.42	.39	.22	.87	.87
3	.81	.93	.11	.94	.15	.65	.38	.32	.38	.21	198.02	.89
4	.80	.89	.12	.87	.09	.60	.32	.24	.40	.19	.03	.88
5	.80	.85	.12	.72	.02	.55	.31	.16	.41	.19	197.93	.88
6	197.80	197.87	198.09	198.63	199.98	200.55	200.32	200.07	198.37	198.21	197.94	197.89
7	.82	.86	.10	.74	.93	.42	.25	199.99	.35	.16	198.00	.88
8	.90	.98	.09	.93	.91	.38	.60	.92	.36	.13	.02	.88
9	.92	198.03	.05	.88	.89	.34	.69	.82	.36	.06	.10	.86
10	.80	.04	.07	.76	.92	.45	.70	.72	.34	.04	197.98	.89
11	197.77	198.04	198.06	198.62	199.94	200.48	201.22	199.64	198.32	198.03	197.98	197.91
12	.77	197.99	.14	.77	200.00	.38	.03	.57	.33	.05	.97	.91
13	.77	.95	199.50	199.00	.55	.31	200.78	.48	.34	.03	.98	.89
14	.82	.96	.77	.00	.55	.25	.66	.29	.32	.03	.98	.88
15	.80	.99	.63	198.90	.45	.21	.55	.17	.31	197.99	.96	.88
16	197.81	197.92	199.57	198.77	200.37	200.18	200.45	199.12	198.31	198.00	197.97	197.88
17	.83	198.05	200.24	199.12	.31	.17	.37	.06	.35	197.88	.97	.89
18	.85	.06	.66	.49	.26	.18	.29	.00	.33	198.01	.97	.92
19	.79	.05	.44	.54	.20	.47	.23	198.97	.33	.06	198.01	.90
20	.81	.12	.17	.60	.14	.62	.18	.91	.32	197.96	.01	.91
21	197.84	198.13	199.99	200.40	200.10	200.56	200.17	198.87	198.30	198.06	198.00	197.90
22	.85	.14	.82	.56	.12	.52	.17	.89	.29	.01	.00	.93
23	.84	.14	.64	.35	.22	.54	.13	.83	.29	.18	197.95	.97
24	.83	.13	.46	.21	.20	201.03	.05	.82	.27	.42	.87	.97
25	.88	.13	.28	.15	.16	200.86	199.99	.78	.26	.04	.87	.95
26	197.95	198.11	199.25	200.15	200.14	200.70	199.96	198.71	198.24	198.12	197.86	197.95
27	.94	.09	.71	.18	.21	.67	.96	.65	.24	.14	.87	.92
28	.94	.08	.76	.45	.20	.67	.97	.59	.27	197.96	.90	.91
29	.93	.08	.57	.52	.51	.65	200.16	.54	.25	198.02	.90	.91
30	.88	.06	.37	.50	.53	.67	.89	.50	.24	197.97	-	.91
31	-	.08	-	.44	.81	-	.81	-	.24	198.18	-	-
Mean	197.84	198.01	199.10	199.46	200.21	200.52	200.41	199.35	198.32	198.09	197.94	197.90
Max.	197.95	198.14	200.66	200.56	200.81	201.03	201.22	200.56	198.44	198.42	198.10	197.97
Min.	197.77	197.85	198.05	198.62	199.89	200.17	199.96	198.50	198.24	197.88	197.85	197.86

WATER YEAR 1971 : Max. 201.22 m. Min. 197.77 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.10	0.12	0.23	0.83	2.81	7.70	4.20	4.28	0.42	0.31	0.12	0.14
2	0.13	0.12	0.24	0.69	2.33	5.60	3.50	3.32	0.39	0.31	0.13	0.13
3	0.10	0.16	0.25	0.67	1.97	5.10	3.09	2.76	0.39	0.30	0.21	0.14
4	0.10	0.14	0.26	0.63	1.87	4.60	2.76	2.41	0.40	0.29	0.21	0.14
5	0.10	0.12	0.26	0.56	1.66	4.20	2.70	2.01	0.40	0.29	0.16	0.14
6	0.10	0.13	0.24	0.51	1.57	3.80	2.76	1.81	0.38	0.30	0.17	0.14
7	0.11	0.13	0.25	0.57	1.49	3.32	2.45	1.58	0.37	0.28	0.20	0.14
8	0.15	0.19	0.24	0.66	1.46	3.09	4.60	1.48	0.38	0.26	0.21	0.14
9	0.16	0.21	0.22	0.64	1.43	2.87	5.50	1.33	0.38	0.23	0.25	0.13
10	0.10	0.22	0.23	0.58	1.48	3.50	5.60	1.22	0.37	0.22	0.19	0.14
11	0.088	0.22	0.23	0.51	1.51	3.68	16	1.15	0.36	0.21	0.19	0.15
12	0.088	0.19	0.27	0.58	1.60	3.09	11	1.10	0.36	0.22	0.18	0.15
13	0.088	0.17	1.04	0.70	4.20	2.70	6.65	1.02	0.37	0.21	0.19	0.14
14	0.11	0.18	1.27	0.70	4.20	2.45	5.20	0.87	0.36	0.21	0.19	0.14
15	0.11	0.19	1.14	0.65	3.50	2.29	4.20	0.80	0.35	0.19	0.18	0.14
16	0.10	0.16	1.10	0.58	3.05	2.08	3.50	0.77	0.35	0.20	0.18	0.14
17	0.10	0.22	2.41	0.77	2.70	2.04	3.03	0.74	0.37	0.14	0.18	0.14
18	0.12	0.23	5.20	1.03	2.49	2.08	2.61	0.70	0.36	0.20	0.18	0.16
19	0.10	0.22	3.44	1.07	2.25	3.62	2.37	0.68	0.36	0.23	0.20	0.15
20	0.10	0.26	2.04	1.12	1.94	4.80	2.08	0.65	0.36	0.18	0.20	0.15
21	0.12	0.26	1.58	3.20	1.90	4.28	2.04	0.63	0.35	0.23	0.20	0.15
22	0.12	0.27	1.33	4.28	1.97	3.96	2.04	0.64	0.34	0.20	0.20	0.16
23	0.12	0.27	1.15	2.92	2.33	4.12	1.90	0.61	0.34	0.29	0.17	0.18
24	0.11	0.26	1.01	2.29	2.25	11	1.75	0.61	0.33	0.41	0.13	0.18
25	0.14	0.26	0.87	1.97	2.01	7.86	1.58	0.59	0.33	0.22	0.13	0.17
26	0.17	0.25	0.85	1.97	1.94	5.60	1.54	0.55	0.32	0.26	0.13	0.17
27	0.17	0.24	1.21	2.08	2.29	5.30	1.54	0.52	0.32	0.27	0.13	0.16
28	0.17	0.24	1.26	3.50	2.25	5.30	1.55	0.49	0.33	0.18	0.15	0.15
29	0.16	0.24	1.10	3.96	3.88	5.10	2.01	0.47	0.32	0.21	0.15	0.15
30	0.14	0.23	0.94	3.80	4.04	5.30	8.34	0.45	0.32	0.18	–	0.15
31	–	0.24	–	3.44	7.06	–	7.06	–	0.32	0.29	–	0.15
Total	3.574	6.34	31.86	47.46	77.41	130.43	125.15	36.24	11.10	7.52	5.11	4.61
Mean	0.119	0.204	1.06	1.53	2.50	4.35	4.04	1.21	0.358	0.24	0.18	0.15
Max.	0.17	0.27	5.20	4.28	7.06	11	16	4.28	0.42	0.31	0.25	0.18
Min.	0.088	0.12	0.22	0.51	1.43	2.04	1.54	0.45	0.32	0.14	0.12	0.13
Runoff – mcm.	0.309	0.548	2.753	4.100	6.688	11.269	10.813	3.131	0.959	0.650	0.441	0.398

WATER YEAR 1971 : Max. 16 Min. 0.088 Mean 1.33 Annual Runoff 42,060 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 11	17.00	201.29	18				

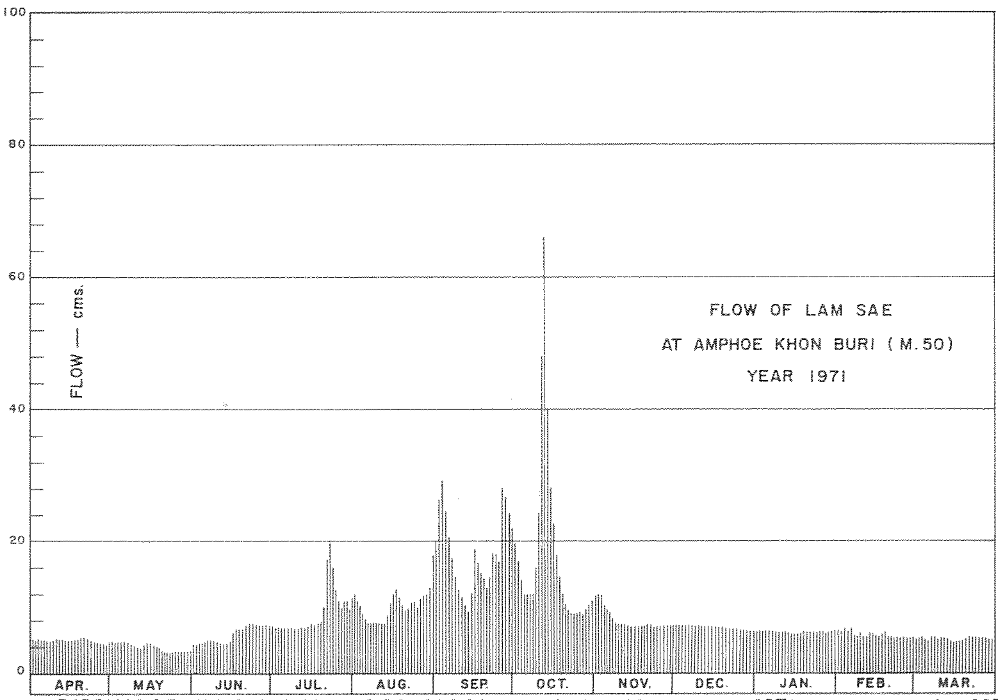
Lam Sae at Amphoe Khon Buri, Nakhon Ratchasima (M.50)

Location:	Lat. 14°-31'-08" N., Long. 102°-14'-39" E., on right bank about 500 meters south of Amphoe Khon Buri office, and 30 meters south-east of Sanitarium, Amphoe Khon Buri, Nakhon Ratchasima.
Drainage Area:	875 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	At the foot of the big tree near automatic gage building.
Elevation:	+ 10.00 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1965 to date.
Rating Operation:	
Period of Rating:	1965-1967
Rated by Float:	-
Rated by Current Meter:	1965-1967
Stability of Channel Regimes:	Rather unstable, no shifting adjustment for flow computation for year without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1967. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.58	1.55	1.41	1.73	1.88	2.05	2.08	1.88	1.75	1.69	1.69	1.60
2	.56	.55	.49	.71	.87	.14	.05	.90	.75	.69	.69	.59
3	.59	.54	.53	.71	.85	.20	.00	.89	.75	.69	.66	.61
4	.58	.54	.53	.71	.84	.19	1.95	.86	.75	.68	.72	.60
5	.57	.54	.53	.71	.80	.15	.89	.84	.75	.68	.67	.56
6	1.57	1.55	1.56	1.71	1.77	2.09	1.88	1.82	1.75	1.68	1.71	1.56
7	.57	.53	.57	.72	.77	.05	.89	.80	.75	.69	.64	.60
8	.57	.52	.57	.71	.77	.00	.89	.78	.75	.68	.62	.62
9	.57	.50	.57	.70	.77	1.96	.88	.78	.75	.67	.65	.58
10	.57	.48	.53	.71	.74	.92	.98	.77	.75	.66	.63	.58
11	1.59	1.46	1.52	1.71	1.77	1.89	2.23	1.76	1.74	1.66	1.63	1.58
12	.59	.44	.51	.73	.77	.85	.60	.77	.74	.67	.61	.59
13	.56	.47	.50	.72	.77	.84	.45	.75	.74	.66	.65	.59
14	.55	.53	.50	.71	.80	.81	.31	.74	.73	.66	.64	.55
15	.55	.53	.56	.75	.87	.90	.21	.74	.73	.65	.62	.54
16	1.56	1.52	1.67	1.76	1.90	2.05	2.11	1.74	1.73	1.65	1.62	1.53
17	.57	.50	.70	.73	.92	.02	.04	.73	.73	.65	.62	.53
18	.58	.48	.70	.76	.90	1.99	1.97	.73	.73	.65	.65	.54
19	.59	.47	.69	.78	.87	.95	.92	.74	.73	.68	.67	.57
20	.60	.43	.71	.79	.84	.91	.87	.75	.72	.68	.63	.57
21	1.60	1.39	1.75	1.86	1.82	1.92	1.84	1.77	1.72	1.68	1.62	1.60
22	.58	.39	.76	2.01	.84	.97	.81	.77	.72	.68	.61	.60
23	.55	.39	.76	.06	.85	2.03	.80	.73	.71	.68	.60	.61
24	.55	.39	.76	1.98	.87	.03	.80	.74	.71	.66	.61	.60
25	.52	.39	.75	.91	.83	.04	.80	.75	.70	.67	.60	.58
26	1.51	1.39	1.74	1.88	1.86	2.13	1.81	1.75	1.70	1.69	1.62	1.58
27	.53	.39	.75	.84	.88	.19	.80	.75	.70	.66	.60	.59
28	.51	.39	.75	.85	.90	.18	.81	.75	.69	.67	.60	.60
29	.49	.42	.74	.85	.89	.14	.84	.75	.69	.67	.60	.59
30	.54	.41	.75	.82	.92	.12	.85	.75	.69	.68		.57
31		.40		.85	2.01		.87		.69	.68		.57
Mean	1.56	1.47	1.63	1.79	1.84	2.02	1.97	1.78	1.73	1.67	1.64	1.58
Max.	1.60	1.55	1.76	2.06	2.01	2.20	2.60	1.90	1.75	1.69	1.72	1.62
Min.	1.49	1.39	1.41	1.70	1.74	1.81	1.80	1.73	1.69	1.65	1.60	1.53

WATER YEAR 1971 : Max. 2.60 m. Min. 1.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.28	4.95	4.50	7.22	12	19	21	12	7.50	6.67	6.67	5.50
2	5.06	4.95	4.30	6.94	11	25	19	12	7.50	6.67	6.67	5.39
3	5.39	4.84	4.73	6.94	11	29	17	12	7.50	6.67	6.28	5.63
4	5.28	4.84	4.73	6.94	10	28	15	11	7.50	6.54	7.08	5.50
5	5.17	4.84	4.73	6.94	9.10	25	12	10	7.50	6.54	6.41	5.06
6	5.17	4.95	5.06	6.94	7.78	22	12	9.78	7.50	6.54	6.94	5.06
7	5.17	4.73	5.17	7.08	7.78	19	12	9.10	7.50	6.67	6.02	5.50
8	5.17	4.62	5.17	6.94	7.78	17	12	7.92	7.50	6.54	5.76	5.76
9	5.17	4.40	5.17	6.80	7.78	15	12	7.92	7.50	6.41	6.15	5.28
10	5.17	4.20	4.73	6.94	7.36	13	16	7.78	7.50	6.28	5.89	5.28
11	5.39	4.00	4.62	6.94	7.78	12	31	7.64	7.36	6.28	5.89	5.28
12	5.39	3.80	4.51	7.22	7.78	11	66	7.78	7.36	6.41	5.63	5.39
13	5.06	4.10	4.40	7.08	7.78	10	50	7.50	7.36	6.28	6.15	5.39
14	4.95	4.73	4.40	6.94	9.10	9.44	37	7.36	7.22	6.28	6.02	4.95
15	4.95	4.73	5.06	7.50	11	12	29	7.36	7.22	6.15	5.76	4.84
16	5.06	4.62	6.41	7.64	12	19	23	7.36	7.22	6.15	5.76	4.73
17	5.17	4.40	6.80	7.22	13	18	19	7.22	7.22	6.15	5.76	4.73
18	5.28	4.20	6.80	7.64	12	16	15	7.22	7.22	6.15	6.15	4.84
19	5.39	4.10	6.67	7.92	11	15	13	7.36	7.22	6.54	6.41	5.17
20	5.50	3.70	6.94	8.06	10	13	11	7.50	7.08	6.54	5.89	5.17
21	5.50	3.31	7.50	11	9.78	13	10	7.78	7.08	6.54	5.76	5.50
22	5.28	3.31	7.64	17	10	15	9.44	7.78	7.08	6.54	5.63	5.50
23	4.95	3.31	7.64	20	11	18	9.10	7.22	6.94	6.54	5.50	5.63
24	4.95	3.31	7.64	16	11	18	9.10	7.36	6.94	6.28	5.63	5.50
25	4.62	3.31	7.50	13	10	19	9.10	7.50	6.80	6.41	5.50	5.28
26	4.51	3.31	7.36	12	11	24	9.44	7.50	6.80	6.67	5.76	5.28
27	4.73	3.31	7.50	10	12	28	9.10	7.50	6.80	6.28	5.50	5.39
28	4.51	3.31	7.50	11	12	27	9.44	7.50	6.67	6.41	5.50	5.50
29	4.30	3.60	7.36	11	12	25	10	7.50	6.67	6.41	5.50	5.39
30	4.84	3.50	7.50	9.78	13	23	11	7.50	6.67	6.54	–	5.17
31	–	3.40	–	11	17	–	11	–	6.67	6.54	–	5.17
Total	152.36	126.68	179.04	285.62	321.80	557.44	548.72	248.94	222.60	199.62	173.57	163.76
Mean	5.08	4.09	5.97	9.21	10.4	18.6	17.7	8.30	7.18	6.44	5.98	5.28
Max.	5.50	4.95	7.64	20	17	29	66	12	7.50	6.67	7.08	5.76
Min.	4.30	3.31	3.50	6.80	7.36	9.44	9.10	7.22	6.67	6.15	5.50	4.73
Runoff - mcm.	13.164	10.945	15.469	24.677	27.803	48.163	47.409	21.508	19.233	17.247	14.996	14.149

WATER YEAR 1971 : Max. 66 Min. 3.31 Mean 8.69 Annual Runoff 274.765 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	07.00	2.65	73				

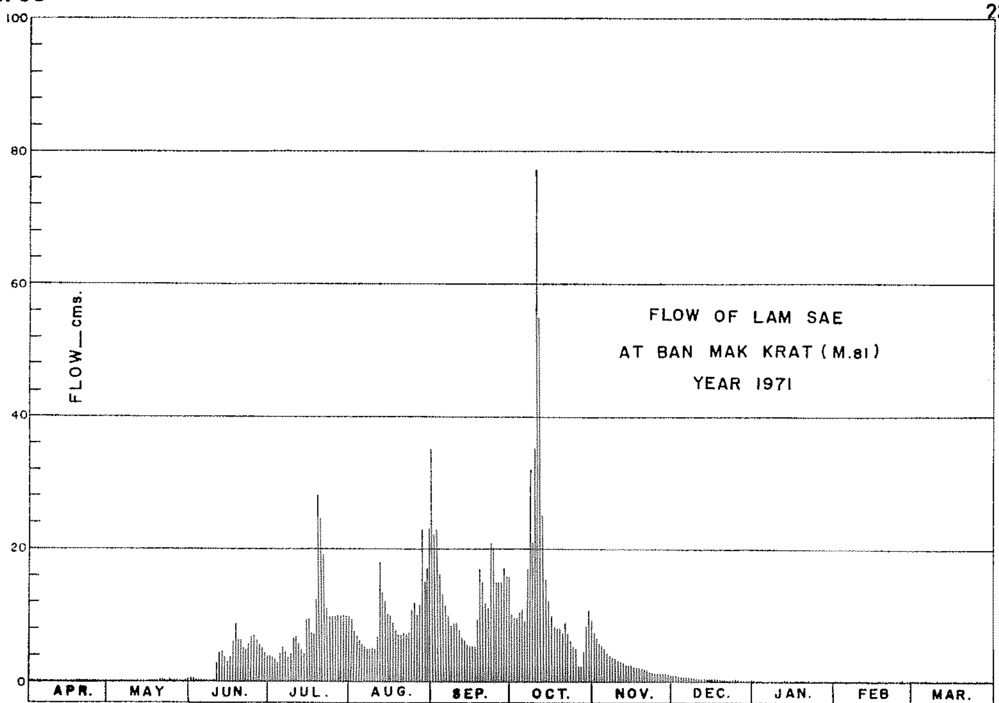
Lam Sae at Ban Mak Krat, Nakhon Ratchasima (M.81)

Location:	Lat. 14^{0}-23'-51" N., Long. 102^{0}-15'-20" E., on right bank infront of Wat Mak Krat, Tambon Khok Kra Chai, Amphoe Khon Buri, Nakhon Ratchasima.
Drainage Area:	482 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 208.00 m. (M.S.L.)
Bench Mark:	B.M. - R.I.D. No. 326
Location:	At the foot of the Sandal tree
Elevation:	+ 215.006 m (M.S.L.)
Gage Reading Frequency:	3 and 5-time daily readings at 06.00, 12.00, 18.00 hours on April - September, 06.00, 09.00, 12.00, 15.00 and 18.00 hours on October - March respectively.
Basis of Mean Daily Gage Height:	Arithmetic mean of 3 and 5 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967-1972
Rated by Float:	-
Rated by Current Meter:	1967-1972
Stability of Channel Regimes:	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 relationship used is defined by discharge measurements made during 1972. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	210.18	210.20	210.63	211.57	212.25	213.05	212.36	212.01	210.84	210.49	210.30	210.25
2	.17	.19	.57	.53	.11	.09	.28	211.91	.79	.47	.30	.25
3	.15	.20	.52	.43	.02	212.85	.28	.83	.75	.47	.29	.24
4	.15	.22	.49	.35	211.92	.66	.42	.81	.72	.46	.29	.24
5	.15	.25	.46	.67	.82	.50	.34	.72	.71	.45	.31	.23
6	210.15	210.23	210.44	211.80	211.82	212.37	212.18	211.64	210.70	210.45	210.31	210.21
7	.14	.21	.43	.65	.75	.27	.76	.58	.68	.44	.30	.21
8	.14	.20	.42	.51	.75	.18	213.50	.53	.66	.43	.32	.21
9	.14	.20	.41	.65	.77	.22	.01	.49	.65	.43	.34	.22
10	.14	.27	.53	.97	.75	.19	214.83	.44	.63	.42	.34	.23
11	210.15	210.29	211.53	211.95	211.99	212.07	213.99	211.40	210.61	210.41	210.33	210.20
12	.15	.28	.70	.84	212.80	211.96	.31	.35	.60	.41	.32	.21
13	.15	.27	.71	.71	.56	.90	212.90	.31	.59	.40	.32	.21
14	.15	.27	.47	.64	.44	.82	.62	.28	.59	.40	.33	.20
15	.14	.27	.35	212.25	.34	.80	.37	.25	.58	.39	.32	.20
16	210.14	210.31	211.61	212.26	212.29	211.80	212.22	211.22	210.58	210.39	210.32	210.20
17	.15	.39	.95	.04	.17	.79	.14	.18	.57	.38	.31	.19
18	.16	.45	212.19	.07	.09	212.31	.13	.14	.57	.37	.31	.18
19	.16	.51	211.91	213.33	.02	.79	.13	.13	.56	.37	.31	.18
20	.25	.61	.92	.07	.04	.63	.04	.11	.56	.36	.31	.19
21	210.28	210.58	211.77	212.89	212.07	212.46	212.22	211.08	210.55	210.36	210.30	210.19
22	.27	.53	.75	.50	.03	.35	.06	.03	.55	.35	.31	.19
23	.26	.47	.87	.32	.10	.99	211.90	.01	.55	.35	.31	.21
24	.29	.45	.98	.27	.40	.94	.80	210.99	.53	.35	.31	.19
25	.27	.44	.99	.33	.46	.68	.72	.96	.53	.34	.31	.20
26	210.25	210.45	211.91	212.33	212.29	212.65	211.68	210.95	210.52	210.34	210.30	210.21
27	.24	.45	.82	.43	.45	.68	.64	.93	.52	.33	.28	.20
28	.22	.46	.76	.41	213.09	.75	.84	.92	.51	.33	.27	.20
29	.21	.49	.65	.59	212.68	.73	212.23	.90	.51	.32	.26	.19
30	.21	.58	.55	.47	.88	.73	.42	.82	.51	.31	-	.21
31	-	.68	-	.35	213.61	-	.18	-	.52	.30	-	.20
Mean	210.19	210.37	211.34	212.10	212.25	212.44	212.43	211.30	210.60	210.17	210.31	210.21
Max.	210.29	210.68	212.19	213.33	213.61	213.09	214.83	212.01	210.84	210.49	210.34	210.25
Min.	210.14	210.19	210.41	211.35	211.75	211.79	211.64	210.82	210.51	210.30	210.26	210.18

WATER YEAR 1971 : Max. 214.83 m. Min. 210.14 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.040	0.050	0.56	3.95	9.40	22	11	7.08	1.02	0.29	0.10	0.075
2	0.035	0.045	0.44	3.75	7.90	23	9.76	6.23	0.88	0.27	0.10	0.075
3	0.025	0.050	0.34	3.25	7.16	18	9.76	5.64	0.80	0.27	0.095	0.070
4	0.025	0.060	0.29	2.90	6.36	15	11	5.46	0.74	0.26	0.095	0.070
5	0.025	0.075	0.26	4.52	5.56	13	10	4.84	0.72	0.25	0.110	0.065
6	0.025	0.065	0.24	5.40	5.56	11	8.60	4.34	0.70	0.25	0.11	0.055
7	0.020	0.055	0.23	4.40	5.05	9.64	17	4.00	0.66	0.24	0.10	0.055
8	0.020	0.050	0.22	3.65	5.05	8.60	32	3.75	0.62	0.23	0.12	0.055
9	0.020	0.050	0.21	4.40	5.19	9.04	21	3.55	0.60	0.23	0.14	0.060
10	0.020	0.085	0.36	6.76	5.05	8.70	77	3.30	0.56	0.22	0.14	0.065
11	0.025	0.095	3.75	6.60	6.92	7.56	45	3.10	0.52	0.21	0.13	0.050
12	0.025	0.090	4.70	5.72	18	6.68	28	2.90	0.50	0.21	0.12	0.055
13	0.025	0.085	4.77	4.77	13	6.20	19	2.74	0.48	0.20	0.12	0.055
14	0.025	0.085	3.45	4.34	12	5.56	14	2.62	0.48	0.20	0.13	0.050
15	0.020	0.085	2.90	9.40	10	5.40	11	2.50	0.46	0.19	0.12	0.050
16	0.020	0.11	4.16	9.52	9.88	5.40	9.04	2.38	0.46	0.19	0.12	0.050
17	0.025	0.19	6.60	7.32	8.50	5.33	8.20	2.22	0.44	0.18	0.11	0.045
18	0.030	0.25	8.70	7.56	7.72	10	8.10	2.06	0.44	0.17	0.11	0.040
19	0.030	0.32	6.28	28	7.16	17	8.10	2.02	0.42	0.17	0.11	0.040
20	0.075	0.52	6.36	23	7.32	15	7.32	1.94	0.42	0.16	0.11	0.045
21	0.090	0.46	5.19	19	7.56	12	9.04	1.82	0.40	0.16	0.10	0.045
22	0.085	0.36	5.05	13	7.24	11	7.48	1.62	0.40	0.15	0.11	0.045
23	0.080	0.27	5.96	10	7.80	21	6.20	1.54	0.40	0.15	0.11	0.055
24	0.095	0.25	6.84	9.64	11	20	5.40	1.47	0.36	0.15	0.11	0.045
25	0.085	0.24	6.92	10	12	15	4.84	1.38	0.36	0.14	0.11	0.050
26	0.075	0.25	6.28	10	9.88	15	4.58	1.35	0.34	0.14	0.100	0.055
27	0.070	0.25	5.56	12	12	15	4.34	1.29	0.34	0.13	0.090	0.050
28	0.060	0.26	5.12	11	23	17	5.72	1.26	0.32	0.13	0.085	0.050
29	0.055	0.29	4.40	14	15	16	9.16	1.20	0.32	0.12	0.080	0.045
30	0.055	0.46	3.85	12	19	16	11	0.96	0.32	0.11	–	0.055
31	–	0.66	–	11	35	–	8.60	–	0.34	0.10	–	0.050
Total	1.305	6.165	109.99	280.85	322.26	380.11	441.24	85.63	15.82	5.87	3.185	1.670
Mean	0.043	0.20	3.67	9.06	10.4	12.7	14.2	2.89	0.51	0.19	0.11	0.054
Max.	0.095	0.66	8.70	28	35	23	77	7.08	1.02	0.29	0.14	0.075
Min.	0.020	0.045	0.21	2.90	5.05	5.33	4.34	0.96	0.32	0.10	0.08	0.040
Runoff - mcm.	0.113	0.533	9.503	24.265	27.843	32.841	38.123	7.485	1.367	0.507	0.275	0.144

WATER YEAR 1971 : Max. 77 Min. 0.020 Mean 4.53 Annual Runoff 143.000 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.10	16.00	215.95	131				

Huai Khayung at Ban Nam Om, Si Sa Ket (M. 66)

Location: Lat. 14°-38'-23" N., Long. 104°-39'-45" E., on right bank about 50 meters upstream from the bridge on Kantharalak - Det Udom road, Ban Nam Om, Amphoe Kantharalak, SiSa Ket.

Drainage Area: 586 sq.km.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. - H.S. No. 1

Location: At the foot of the ladder of automatic gage building.
Elevation: + 6.581 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1965 to date

Rating Operation:

Period of Rating: 1965-1968, 1972 to date.
Rated by Float: -
Rated by Current Meter: 1965-1968, 1972 to date.

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

Overbank Flow Conditions: No overbank flow.

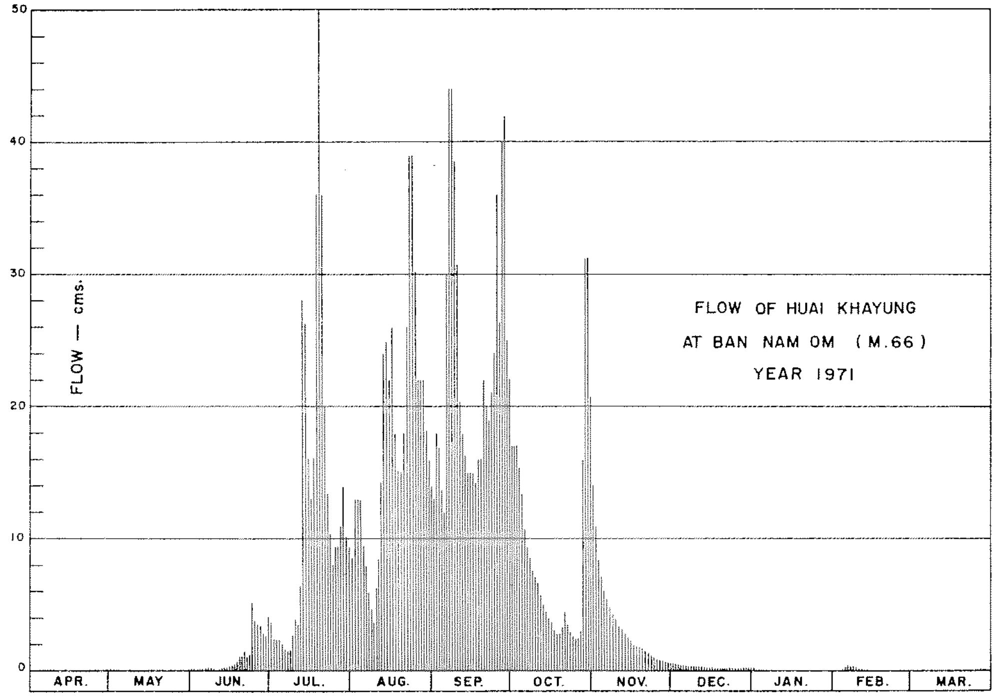
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1965-1968. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	-0.01	0.00	0.06	0.71	1.12	1.44	1.68	1.47	0.32	0.15	0.06	0.03
2	.00	.01	.08	.55	.44	.71	.68	.29	.31	.14	.05	.03
3	.00	.00	.07	.55	.44	.68	.67	.14	.30	.14	.05	.03
4	- .01	.00	.06	.56	.40	.49	.54	.02	.29	.13	.05	.03
5	- .01	.00	.14	.54	.22	.35	.38	0.93	.29	.13	.16	.03
6	0.00	0.05	0.16	0.48	1.06	2.45	1.24	0.88	0.28	0.12	0.25	0.03
7	.00	.05	.15	.44	0.91	3.10	.18	.82	.26	.11	.21	.03
8	.00	.06	.12	.44	.80	.10	.10	.78	.25	.11	.25	.03
9	.00	.04	.10	.52	.71	2.78	.03	.73	.25	.11	.21	.03
10	- .01	.08	.09	.73	.90	.38	.00	.70	.24	.10	.17	.02
11	0.00	0.03	0.07	0.68	1.10	1.92	0.97	0.66	0.24	0.11	0.15	0.02
12	- .01	.06	.16	.91	.66	.75	.86	.63	.23	.10	.14	.02
13	- .01	.06	.16	2.32	2.05	.59	.84	.61	.23	.09	.14	.01
14	- .01	.04	.17	.21	.11	.56	.79	.59	.22	.09	.14	.01
15	- .02	.05	.19	1.62	1.94	.55	.73	.56	.22	.09	.10	.01
16	-0.02	0.03	0.24	1.42	2.18	1.52	0.69	0.53	0.21	0.09	0.10	0.01
17	- .02	.06	.27	.54	1.78	.47	.64	.51	.20	.09	.09	.00
18	- .02	.04	.30	2.35	.60	.62	.62	.49	.19	.09	.08	.00
19	- .01	.03	.38	3.39	.56	.60	.62	.49	.18	.09	.07	.01
20	- .02	.05	.40	2.70	.53	.95	.64	.48	.17	.09	.07	.02
21	-0.02	0.09	0.46	1.85	1.94	1.86	0.79	0.45	0.18	0.09	0.07	0.01
22	- .02	.07	.40	.52	2.31	.76	.71	.43	.18	.09	.06	.01
23	- .02	.05	.43	.28	.85	.88	.63	.42	.17	.09	.05	.00
24	- .02	.03	.84	.20	.85	2.00	.59	.40	.16	.08	.05	.01
25	0.04	.06	.71	.07	.38	.73	.57	.38	.17	.07	.05	.03
26	0.01	0.05	0.86	1.17	1.94	2.21	0.57	0.36	0.16	0.07	0.04	0.03
27	.01	.04	.69	.18	.95	.92	.63	.36	.17	.07	.03	.02
28	.01	.04	.63	.29	.98	.99	1.72	.35	.18	.07	.04	.01
29	.00	.03	.60	.51	.82	.10	2.44	.34	.19	.07	.03	.01
30	.00	.03	.74	.22	.69	1.94	.46	.33	.20	.07		.01
31	-	.05	-	.18	.49	-	1.76	-	.17	.06	-	.00
Mean		0.05	0.32	1.26	1.67	2.02	1.09	0.64	0.22	0.10	0.10	0.02
Max.	0.04	0.09	0.86	3.39	2.85	3.10	2.46	1.47	0.32	0.15	0.25	0.03
Min.	-0.02	0.00	0.06	0.44	0.71	1.35	0.57	0.33	0.16	0.06	0.03	0.00

WATER YEAR 1971 : Max. 3.39 m. Min. 0.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.000	0.000	0.020	3.71	8.68	13	17	14	0.70	0.20	0.020	0.000
2			0.060	2.30	13	18	17	11	0.65	0.18	0.000	
3			0.040	2.30	13	17	17	8.96	0.60	0.18	0.000	
4			0.020	2.38	13	14	15	7.36	0.57	0.16	0.000	
5			0.18	2.22	10	12	12	6.26	0.57	0.16	0.22	
6			0.22	1.74	7.88	31	10	5.66	0.54	0.14	0.45	
7		0.000	0.20	1.42	6.02	44	9.52	4.94	0.48	0.12	0.33	
8		0.020	0.14	1.42	4.70	44	8.40	4.48	0.45	0.12	0.45	
9		0.000	0.10	2.06	3.70	37	7.49	3.93	0.45	0.12	0.33	
10		0.060	0.080	3.93	5.90	30	7.10	3.60	0.42	0.10	0.24	
11		0.060	0.040	3.42	8.40	21	6.74	3.24	0.42	0.12	0.20	
12		0.020	0.22	6.02	17	18	5.42	2.97	0.39	0.10	0.18	
13		0.020	0.22	28	24	16	5.18	2.79	0.39	0.080	0.18	
14		0.000	0.24	26	25	15	4.59	2.62	0.36	0.080	0.18	
15		0.000	0.28	16	22	15	3.93	2.38	0.36	0.080	0.10	
16		0.000	0.42	13	26	15	3.51	2.14	0.33	0.080	0.10	
17		0.020	0.51	15	19	14	3.06	1.98	0.30	0.080	0.080	
18		0.000	0.60	29	16	16	2.88	1.82	0.28	0.080	0.060	
19		0.000	1.00	50	15	16	2.88	1.82	0.26	0.080	0.040	
20		0.000	1.10	36	15	22	3.06	1.74	0.24	0.080	0.040	
21		0.080	1.58	20	22	20	4.59	1.50	0.26	0.080	0.040	
22		0.040	1.10	15	28	19	3.71	1.34	0.26	0.080	0.020	
23		0.000	1.34	11	39	21	2.97	1.26	0.24	0.080	0.000	
24		0.000	5.18	9.80	39	23	2.62	1.10	0.22	0.080	0.000	
25		0.020	3.71	8.01	30	36	2.46	1.00	0.24	0.040	0.000	
26		0.000	3.51	9.38	22	26	2.46	0.90	0.22	0.040	0.000	
27		0.000	3.51	9.52	22	40	2.97	0.90	0.24	0.040	0.000	
28		0.000	2.97	11	22	42	18	0.85	0.26	0.040	0.000	
29		0.000	2.70	14	20	25	31	0.80	0.28	0.040	0.000	
30	0.000	0.000	4.04	10	17	22	31	0.75	0.30	0.040		
31		0.000	–	9.52	14	–	19	–	0.24	0.020	–	0.000
Total	0.000	0.340	37.24	373.15	548.29	702	282.54	104.09	11.52	2.92	3.26	0.000
Mean	0.000	0.010	1.24	12.0	17.7	23.4	9.11	3.47	0.37	0.094	0.11	0.000
Max.	0.000	0.080	5.42	50	39	44	31	14	0.70	0.20	0.45	0.000
Min.	0.000	0.000	0.020	1.42	3.71	12	2.46	0.75	0.22	0.020	0.00	0.000
Runoff – mcm.	0.000	0.029	3.217	32.240	47.372	60.653	24.411	8.993	0.994	0.252	0.282	0.000

WATER YEAR 1971 : Max. 50 Min. 0.00 Mean 5.65 Annual Runoff 178,446 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7	24.00	3.44	51				

Lam Se Bok at Ubon-Trakan Phutphon bridge, Ubon Ratchathani (M. 69)

Location: Lat. 15°-30'-11" N., Long. 104°-58'-01" E., on left bank about 100 meters upstream from the bridge on Ubon-Trakan Phutphon road, Amphoe Trakan Phutphon, Ubon Ratchathani.

Drainage Area: 2,132 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Near automatic gage building.
Elevation: + 9.985 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1969 to date

Rating Operation:

Period of Rating: 1969 to date
Rated by Float: -
Rated by Current Meter: 1969 to date

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

Overbank Flow Conditions: No overbank flow.

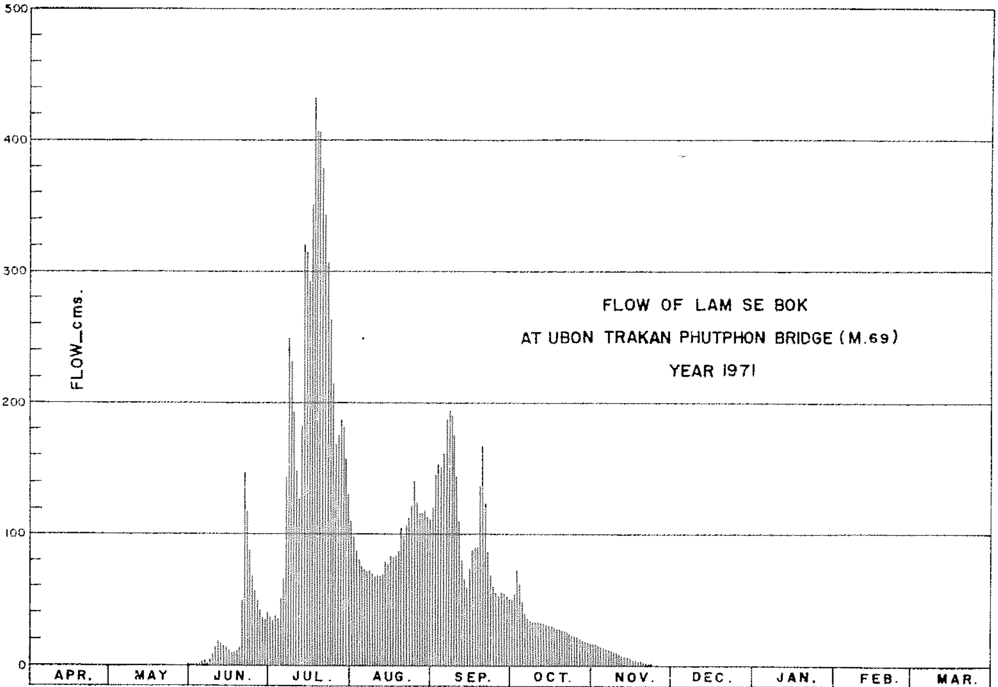
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow is effected by backwater of Mun river. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.81	0.79	0.94	2.14	4.28	4.67	4.05	2.62	1.10	0.82	0.80	0.71
2	.82	.80	.96	.07	3.95	5.06	.22	.55	.11	.82	.80	.70
3	.82	.81	.98	.15	.67	.15	.51	.52	.09	.81	.79	.69
4	.81	.82	1.03	.09	.43	.12	.28	.47	.10	.80	.78	.68
5	.81	.82	.17	.46	.21	.21	3.93	.43	.09	.81	.78	.68
6	0.80	0.88	1.10	2.74	3.11	5.55	3.73	2.36	1.08	0.81	0.77	0.69
7	.80	.89	.06	4.10	2.95	.65	.64	.30	.07	.80	.75	.69
8	.79	.86	.18	5.46	3.07	.63	.56	.24	.05	.80	.74	.71
9	.79	.85	.38	.18	2.88	.51	.51	.14	.03	.82	.72	.71
10	.79	.86	.57	4.70	.73	.29	.48	.05	.03	.83	.73	.71
11	0.78	0.87	1.67	4.14	2.86	4.96	3.48	1.94	1.02	0.83	0.74	0.74
12	.79	.87	.65	3.73	.83	.64	.46	.83	.01	.83	.76	.72
13	.79	.90	.55	4.70	.93	.44	.43	.75	.01	.83	.77	.72
14	.80	.91	.56	6.30	3.40	.29	.41	.65	.02	.81	.78	.72
15	.81	.95	.47	.24	.31	.59	.38	.59	.00	.82	.80	.73
16	0.81	0.98	1.39	5.98	3.58	4.74	3.35	1.54	1.00	0.82	0.80	0.74
17	.81	.99	.41	6.78	.54	.76	.30	.50	.00	.83	.80	.74
18	.81	.98	.44	7.56	.55	.78	.26	.45	.00	.80	.80	.73
19	.79	.96	.49	.45	.76	5.31	.23	.42	0.97	.79	.80	.72
20	.79	.95	2.30	.45	4.76	.48	.18	.35	.96	.77	.80	.72
21	0.79	0.93	4.04	7.29	4.08	5.05	3.13	1.34	0.94	0.76	0.80	0.72
22	.77	.94	3.43	.00	.39	4.64	.08	.28	.95	.76	.80	.72
23	.76	.94	.11	6.62	.45	.43	.03	.25	.96	.76	.81	.72
24	.74	.93	2.75	.17	.67	.30	.00	.20	.95	.76	.85	.72
25	.74	.92	.54	5.68	.97	.19	2.94	.19	.94	.76	.83	.73
26	0.73	0.93	2.45	5.34	4.70	4.14	2.90	1.18	0.92	0.76	0.81	0.74
27	.75	.94	.24	.43	.50	.19	.80	.17	.86	.77	.78	.73
28	.76	.94	.12	.57	.53	.21	.75	.15	.85	.78	.74	.73
29	.79	.95	.08	.51	.55	.14	.68	.12	.84	.79	.72	.74
30	.79	.96	.20	.19	.47	.07	.65	.08	.83	.79		.72
31	-	.95	-	4.72	.38	-	.64	-	.83	.80	-	.72
Mean	0.79	0.90	1.31	5.09	3.77	4.81	3.35	1.72	0.99	0.80	0.78	0.72
Max.	0.82	0.99	4.04	7.56	4.97	5.65	4.51	2.62	1.11	0.83	0.85	0.74
Min.	0.73	0.79	0.94	2.07	2.73	4.07	2.64	1.08	0.83	0.76	0.72	0.68

WATER YEAR 1971 : Max. 7.56 m. Min. 0.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.40	37	106	123	49	17	1.00	0.00	0.00	0.00
2			0.60	34	94	146	56	16	1.05			
3			0.80	38	86	152	72	15	0.95			
4			1.45	35	80	150	59	14	1.00			
5			3.90	52	75	157	45	14	0.95			
6			2.50	68	73	185	39	13	0.90			
7			1.90	150	70	194	36	12	0.85			
8			4.10	249	72	191	34	12	0.75			
9			9.00	227	69	172	33	11	0.65			
10			15	191	67	142	33	10	0.65			
11			18	153	69	106	33	8.90	0.60			
12			17	126	68	81	32	7.80	0.55			
13		0.00	14	191	70	67	32	7.00	0.55			
14		0.10	14	319	79	59	31	6.00	0.60			
15		0.50	12	314	77	77	31	5.40	0.50			
16		0.80	9.25	291	83	88	30	4.90	0.50			
17		0.90	9.80	361	82	90	29	4.50	0.50			
18		0.80	11	432	83	91	28	4.00	0.50			
19		0.60	12	406	88	144	28	3.70	0.35			
20		0.30	44	406	105	167	27	3.00	0.30			
21		0.30	146	378	98	115	26	2.90	0.20			
22		0.40	108	337	110	81	25	2.30	0.25			
23		0.40	89	290	113	67	24	2.00	0.30			
24		0.30	68	244	123	60	23	1.50	0.25			
25		0.20	57	197	140	55	22	1.45	0.20			
26		0.30	52	167	125	53	21	1.40	0.10			
27		0.40	42	175	115	55	19	1.35	0.00			
28		0.40	36	187	116	55	19	1.25	0.00			
29		0.50	35	182	117	53	18	1.10	0.00		0.00	
30	0.00	0.60	40	155	114	50	17	0.90	0.00			
31		0.50	–	126	110	–		–	0.00	0.00	–	0.00
Total	0.00	8.30	873.70	6,518	2,877	3,226	988	205.35	15.00	0.00	0.00	0.00
Mean	0.00	0.27	29.1	210	92.8	107	31.9	6.84	0.43	0.00	0.00	0.00
Max.	0.00	0.90	146	432	140	194	72	17	1.05	0.00	0.00	0.00
Min.	0.00	0.00	0.40	34	67	50	17	0.90	0.00	0.00	0.00	0.00
Runoff - MCM.	0.00	0.717	75.488	563.155	248.573	278.726	85.363	17.742	1.296	0.00	0.00	0.00

WATER YEAR 1971 : Max. 432 Min. 0.00 Mean 40.2 Annual Runoff 1,271.061 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 18	06.00	7.63	438				

Huai Kwang at Ban Kaeng Yang, Ubon Ratchathani (M. 75)

Location: Lat. 15°-09'-53" N., Long. 105°-17'-01" E., on left bank at the bridge on Phibun Mangsahan - Chong Mek highway near Wat Pa Thepburom, Amphoe Phibun Mangsahan, Ubon Ratchathani.

Drainage Area: 388 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: About 9 meters from left bank infront of Wat Pa Thepburom.
Elevation: + 6.775 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1965 to date

Rating Operation:

Period of Rating: 1965 to date
Rated by Float: -
Rated by Current Meter: 1965 to date

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

Overbank Flow Conditions: Overbank flow starts at elevation + 5.50 m. (A.D.)

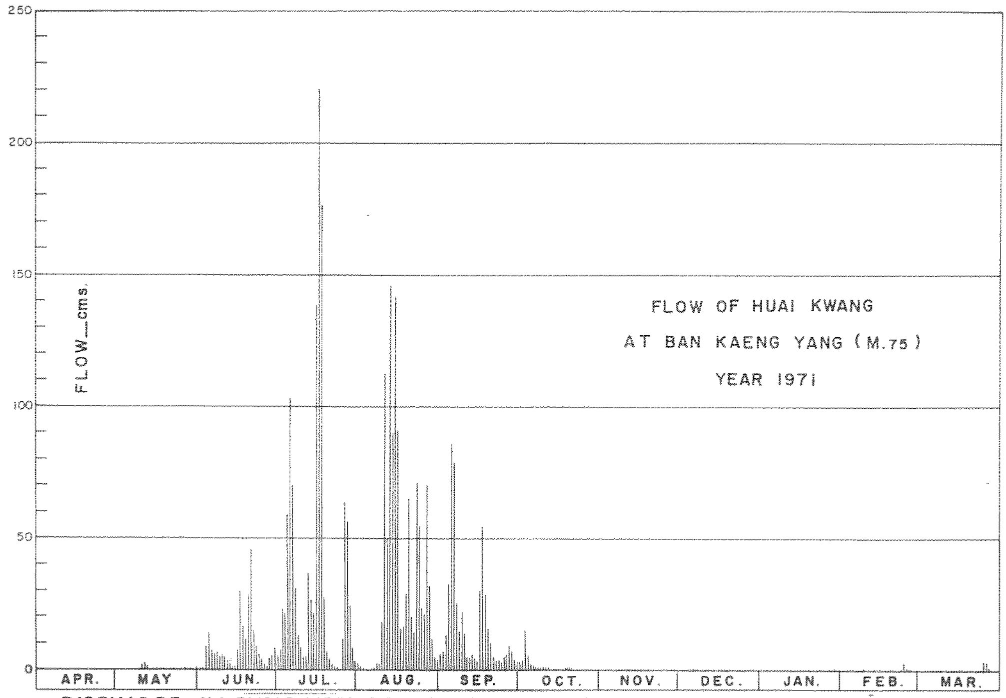
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. But overbank flow obtained by using stage-discharge relationship which was determined from discharge measurements made in 1970. No State diversions for irrigation at above gage site except those built by the local residents.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	0.69	0.83	1.18	0.90	1.11	0.97	0.77	0.72	0.70	0.66	0.71
2	.74	.69	.77	0.97	.87	.10	.95	.72	.72	.70	.66	.69
3	.70	.66	.78	1.78	.83	.45	1.50	.76	.71	.67	.66	.68
4	.66	.65	1.32	.57	.83	.75	.06	.76	.71	.65	.67	.65
5	.67	.64	.47	3.31	.80	3.62	0.94	.76	.71	.65	.94	.66
6	0.72	0.67	1.22	4.05	0.85	2.78	0.87	0.76	0.71	0.69	0.79	0.68
7	.67	.93	.10	2.90	.84	1.48	.83	.75	.70	.68	.75	.70
8	.65	.79	.11	1.97	1.04	.45	.80	.74	.69	.69	.74	.68
9	.84	.77	.05	.45	0.88	.75	.79	.73	.69	.66	.68	.67
10	.83	.74	.18	.23	1.32	.25	.78	.72	.69	.65	.70	.67
11	0.73	0.72	1.03	1.03	4.26	1.03	0.77	0.72	0.69	0.65	0.69	0.66
12	.69	.72	0.97	.04	2.06	.01	.76	.72	.69	.64	.68	.69
13	.70	.79	.92	2.24	5.02	.08	.75	.72	.69	.64	.67	.69
14	.70	.81	.85	1.87	3.56	0.95	.75	.72	.68	.66	.66	.71
15	.71	.74	.83	.68	4.88	.90	.75	.71	.67	.66	.68	.67
16	0.70	0.72	1.24	1.89	3.09	2.31	0.74	0.71	0.69	0.71	0.68	0.67
17	.68	.71	2.02	5.63	1.48	.73	.73	.71	.69	.70	.68	.67
18	.66	.71	1.57	.11	.57	1.93	.77	.71	.69	.70	.67	.67
19	.66	.72	.26	1.74	2.23	.52	.84	.71	.70	.67	.67	.67
20	.66	.71	2.07	.23	.97	.20	.84	.71	.70	.64	.67	.65
21	0.68	0.69	2.52	1.02	1.58	0.99	0.77	0.71	0.69	0.66	0.65	0.65
22	.68	.69	1.37	0.92	.39	.95	.75	.72	.69	.67	.65	.70
23	.68	.70	.24	.86	3.22	.97	.74	.76	.68	.67	.76	.67
24	.68	.69	.14	.85	2.67	.94	.76	.76	.68	.66	.96	.65
25	.69	.72	.03	.84	1.77	1.06	.77	.74	.69	.66	.83	.98
26	0.66	0.79	0.92	0.94	1.66	1.10	0.76	0.69	0.69	0.66	0.77	0.92
27	.65	.81	.86	3.02	3.17	.25	.76	.69	.69	.66	.74	.78
28	.68	.78	1.05	2.72	1.78	.15	.75	.69	.68	.66	.71	.74
29	.68	.82	.03	1.50	.27	0.99	.76	.69	.68	.66	.71	.72
30	.68	.79	.24	.11	.07	.91	.78	.70	.68	.66		.72
31	-	.77	-	0.98	0.98	-	.79	-	.70	.67	-	.72
Mean	0.69	0.74	1.20	1.89	1.96	1.42	0.82	0.72	0.69	0.66	0.71	0.70
Max.	0.84	0.97	2.52	5.63	5.02	3.62	1.50	0.77	0.72	0.70	0.96	0.98
Min.	0.65	0.69	0.77	0.84	0.80	0.90	0.73	0.69	0.68	0.64	0.66	0.72

WATER YEAR 1971 : Max. 5.63 m. Min. 0.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.78	6.56	2.20	6.02	3.46	0.24	0.00	0.00	0.00	0.00
2	0.00	0.00	0.24	3.46	1.02	5.80	3.10	0.00			0.00	
3	0.00	0.00	0.36	23	0.75	14	15	0.12			0.00	
4	0.00	0.00	11	16	0.78	22	5.08	0.12			0.00	
5	0.00	0.00	14	75	0.60	86	2.92	0.12			2.92	
6	0.00	3.46	8.44	103	0.90	55	1.02	0.12			0.48	
7	0.00	2.74	5.80	60	0.84	15	0.78	0.00			0.00	
8	0.00	0.48	6.02	29	4.72	14	0.60					
9	0.84	0.24	4.90	14	1.08	22	0.48					
10	0.78	0.00	6.56	8.66	11	9.10	0.36					
11	0.00	0.00	4.54	4.54	112	4.54	0.24					
12		0.00	3.46	4.72	* 32	4.18	0.12					
13		0.48	2.56	37	*146	5.44	0.00					
14		0.66	0.90	26	* 85	3.10	0.00					
15		0.00	0.78	20	*142	2.20	0.00					
16		0.00	8.88	* 28	* 71	40	0.00					
17			30	*220	* 15	54	0.00					
18			16	*169	16	27	0.24					
19			9.32	* 21	37	16	0.84					
20			32	8.66	62	8.00	0.84					
21			46	4.36	16	3.82	0.24					
22			12	2.56	12	3.10	0.00				0.00	
23			8.88	0.96	71	3.46	0.00				0.12	
24			6.68	0.90	51	2.92	0.12				3.28	0.00
25		0.00	4.54	0.84	23	5.08	0.24				0.78	3.64
26		0.48	2.56	2.92	20	5.80	0.12				0.24	2.56
27		0.66	0.96	64	70	9.10	0.12				0.00	0.36
28		0.36	4.90	53	23	6.90	0.00				0.00	0.00
29		0.72	4.54	15	9.54	3.82	0.12				0.00	0.00
30	0.00	0.48	8.88	6.02	5.26	2.38	0.36	0.00				0.00
31	–	0.24	–	3.64	3.64	–	0.48	–	0.00	0.00	–	0.00
Total	1.62	11.00	266.48	1,031.80	1,046.36	459.76	36.88	0.72	0.00	0.00	7.82	6.56
Mean	0.054	0.35	8.88	33.2	33.7	15.3	1.18	0.024	0.00	0.00	0.26	0.21
Max.	0.84	3.46	46	220	146	86	15	0.24	0.00	0.00	3.28	3.64
Min.	0.00	0.00	0.24	0.84	0.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00
Runoff - mcm.	0.140	0.950	23.024	89.148	90.406	39.723	3.186	0.062	0.000	0.000	0.67	0.567

WATER YEAR 1971 : Max. 220 Min. 0.00 Mean 7.83 Annual Runoff 247.882 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 18	19.00	7.29	377				

Lam Dom Yai at highway bridge, Ubon Ratchathani (M.80)

Location: Lat. 14°-53'-53" N., Long. 105°-05'-08" E., on left bank about 20 meters downstream side of the bridge on Buntharik road, Amphoe Det Udom, Ubon Ratchathani.

Drainage Area: 3,363 sq.km.

Type of Gage: Staff gage and Recorder.

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

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

Location: Near the ladder of automatic gage building.
Elevation: + 11.826 m. (A.D.)

Gage Reading Frequency: Recording on April - October 3-time daily readings at 06.00, 12.00 and 18.00 hours on November - March.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 and 24 hourly readings.

Period of Available Gage Records: 1965 to date

Rating Operation:

Period of Rating: 1965 to date
Rated by Float: -
Rated by Current Meter: 1965 to date

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

Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.63	0.63	0.85	1.98	3.33	5.59	6.21	2.93	1.15	0.90	0.74	0.74
2	.64	.63	.86	.95	.53	.41	5.54	.62	.12	.89	.71	.74
3	.65	.65	.92	2.13	.50	.18	4.95	.45	.11	.88	.72	.74
4	.64	.68	.95	.34	.13	4.98	.94	.35	.10	.87	.72	.72
5	.63	.70	1.18	3.47	2.85	5.22	.84	.32	.08	.87	.72	.70
6	0.63	0.81	1.18	4.75	2.78	5.01	4.31	2.20	1.08	0.87	0.74	0.70
7	.63	.80	.11	.31	3.18	4.26	3.87	.10	.06	.87	.73	.70
8	.63	.78	.26	3.78	2.92	.22	.56	1.98	.05	.86	.73	.70
9	.67	.84	.51	.36	.56	.25	.33	.86	.04	.86	.75	.69
10	.67	.88	.51	2.89	.36	3.86	.14	.74	.04	.85	.74	.69
11	0.64	0.84	1.38	2.38	2.63	3.58	2.95	1.65	1.04	0.84	0.73	0.67
12	.63	.81	.32	.78	.93	.35	.74	.60	.02	.83	1.00	.67
13	.63	.78	.33	5.30	3.26	.22	.59	.55	.01	.83	.04	.67
14	.63	.75	.27	6.72	.93	.12	.38	.51	0.99	.82	0.94	.66
15	.63	.72	.44	7.06	4.12	.76	.22	.45	.98	.81	.90	.67
16	0.62	0.71	1.72	6.82	4.75	4.07	2.11	1.42	0.97	0.80	0.86	0.67
17	.62	.71	.76	.60	5.16	.33	.01	.39	.96	.80	.82	.66
18	.63	.70	.96	7.45	4.96	.70	1.92	.36	.96	.79	.79	.64
19	.63	.89	2.19	.49	.66	.47	.85	.33	.95	.79	.78	.64
20	.63	.95	.39	.20	.81	5.00	.83	.30	.94	.78	.76	.63
21	0.62	0.93	2.97	6.53	5.68	5.84	1.85	1.28	0.94	0.78	0.74	0.63
22	.62	.95	3.11	5.26	6.39	6.21	.86	.26	.94	.77	.74	.63
23	.61	.88	.25	4.14	.78	.34	.82	.25	.94	.77	.74	.64
24	.61	.86	.54	3.83	7.14	.32	.74	.23	.93	.76	.75	.66
25	.61	.84	.18	3.74	.33	.24	.69	.22	.92	.76	.78	.67
26	0.64	0.82	2.71	3.92	7.21	6.54	1.68	1.20	0.93	0.76	0.81	0.81
27	.67	.80	.36	4.49	6.90	.80	.78	.19	.92	.74	.79	.78
28	.66	.79	.08	.67	.57	.75	2.08	.17	.93	.76	.78	.71
29	.64	.83	1.91	.62	.06	.60	2.77	.16	.95	.75	.77	.70
30	.65	.89	.94	.31	5.78	.47	3.23	.15	.96	.74	-	.68
31	-	.87	-	3.72	.86	-	3.35	-	.94	.70	-	.68
Mean	0.63	0.80	1.84	4.51	4.61	5.06	2.94	1.64	1.00	0.80	0.79	0.69
Max.	0.67	0.95	3.54	7.49	7.33	6.80	6.21	2.93	1.15	0.90	1.00	0.81
Min.	0.61	0.63	0.85	1.95	2.36	3.12	1.68	1.15	0.92	0.70	0.71	0.63

WATER YEAR 1971 : Max. 7.49 m. Min. 0.61 m.

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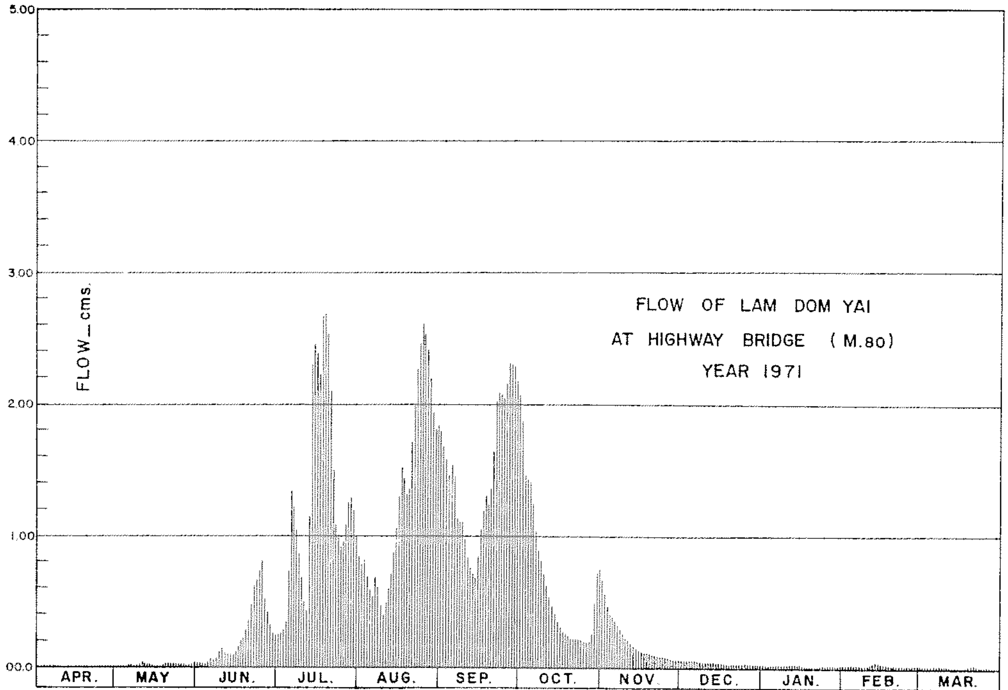


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.65	0.65	2.50	27	74	171	202	58	6.60	3.00	1.40	1.40
2	0.70	0.65	2.60	26	82	163	169	48	6.06	2.90	1.40	1.40
3	0.75	0.75	3.24	31	80	153	143	42	5.88	2.80	1.20	1.40
4	0.70	0.90	3.60	38	66	144	142	39	5.70	2.70	1.20	1.20
5	0.65	1.00	7.14	79	56	155	138	38	5.40	2.70	1.20	1.00
6	0.65	2.10	7.14	134	53	145	114	34	5.40	2.70	1.40	1.00
7	0.65	2.00	5.11	114	68	112	95	30	5.10	2.70	1.30	1.00
8	0.65	1.80	9.00	92	58	110	83	27	4.95	2.60	1.30	1.00
9	0.85	2.40	14	75	45	111	74	23	4.80	2.60	1.50	0.95
10	0.85	2.80	15	57	39	95	66	20	4.80	2.50	1.40	0.95
11	0.75	2.40	12	40	48	84	59	18	4.80	2.40	1.30	0.85
12	0.65	2.10	10	53	58	74	52	17	4.50	2.30	4.20	0.85
13	0.65	1.80	11	158	71	69	46	15	4.35	2.30	4.80	0.85
14	0.65	1.50	9.25	227	98	65	40	14	4.08	2.20	3.48	0.80
15	0.65	1.20	13	245	105	91	34	13	3.96	2.10	3.00	0.85
16	0.60	1.10	20	232	134	103	31	12	3.84	2.00	2.60	0.85
17	0.60	1.10	22	221	152	115	28	12	3.72	2.00	2.20	0.80
18	0.65	1.00	26	266	143	131	25	11	3.72	1.90	1.90	0.70
19	0.65	2.90	33	268	130	121	23	11	3.60	1.90	1.80	0.70
20	0.65	3.60	40	252	136	145	23	10	3.48	1.80	1.60	0.65
21	0.60	3.63	60	218	176	183	23	9.50	3.48	1.80	1.40	0.65
22	0.60	3.60	65	157	211	202	23	9.00	3.48	1.70	1.40	0.65
23	0.55	2.80	70	106	230	208	22	8.75	3.48	1.70	1.40	0.70
24	0.55	2.60	82	94	249	207	20	8.25	3.36	1.60	1.50	0.80
25	0.55	2.40	68	90	260	203	19	8.00	3.24	1.60	1.80	0.85
26	0.70	2.20	51	97	253	218	19	7.50	3.36	1.60	2.10	2.10
27	0.85	2.00	39	122	236	231	21	7.32	3.24	1.40	1.90	1.80
28	0.80	1.90	30	130	220	229	30	6.96	3.36	1.60	1.80	1.10
29	0.70	2.30	25	128	194	221	53	6.78	3.60	1.50	1.70	1.00
30	0.75	2.90	26	114	180	215	70	6.60	3.72	1.40	–	0.90
31	–	2.70	–	89	184	–	74	–	3.48	1.00	–	0.90
Total	20.25	62.78	781.58	3,980	4,089	4,474	1,961	570.66	132.54	65.00	54.88	30.65
Mean	0.67	2.02	26.0	128	132	149	63.2	19.0	4.27	2.10	1.89	0.99
Max.	0.85	3.63	82	268	260	231	202	58	6.60	3.00	4.20	2.10
Min.	0.55	0.65	2.50	26	39	65	19	6.60	3.24	1.00	1.10	0.65
Runoff - mcm.	1.750	5.424	67.528	343.872	353.290	386.554	169.430	49.305	11.451	5.616	4.742	2.648

WATER YEAR 1971 : Max. 268 Min. 0.55 Mean 44.3 Annual Runoff 1,401.610 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 25	18.00	7.35	261				

MUN RIVER BASIN

Lam Sae at Ban Mak Krat, Nakhon Ratchasima (M. 81A)

Location: Lat. 14°-22'-22" N., Long. 102°-15'-40" E., on right bank about 4 kilometers upstream from M. 81 station at Ban Mak Krat, Amphoe Khon Buri, Nakhon Ratchasima.

Drainage Area: 433 sq.km.

Type of Gage: Water-stage recorder

Zero Gage at Bottom at: + 209.767 m. (M.S.L.)

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

Location: At the foot of the ladder of automatic gage building.
Elevation: + 216.857 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: 1970 to date.

Rating Operation:

Period of Rating: 1970 to date
Rated by Float: -
Rated by Current Meter: 1970 to date

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

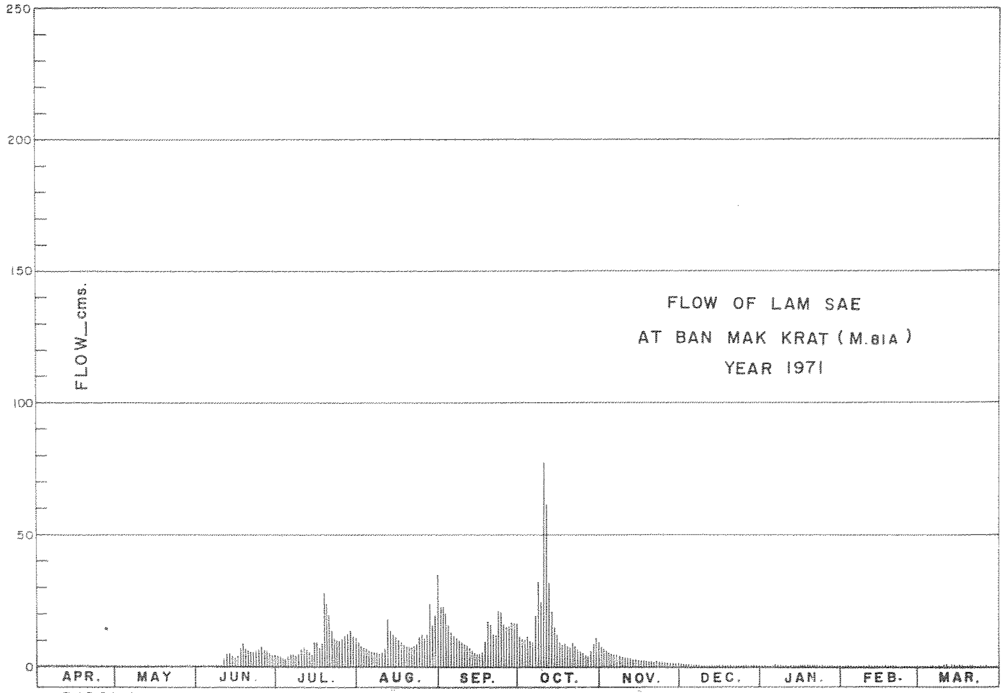
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	210.18	210.20	210.63	211.51	212.25	213.05	212.36	212.01	210.84	210.49	210.30	210.25
2	.17	.19	.57	.53	.11	.09	.28	211.91	.79	.47	.30	.25
3	.15	.20	.52	.43	.02	212.85	.28	.83	.75	.47	.29	.24
4	.15	.22	.49	.35	211.92	.66	.42	.81	.72	.46	.29	.24
5	.15	.25	.46	.67	.82	.50	.34	.72	.71	.45	.31	.23
6	210.15	210.23	210.44	211.80	211.82	212.37	212.18	211.64	210.70	210.45	210.31	210.21
7	.14	.21	.43	.65	.75	.27	.76	.58	.68	.44	.30	.21
8	.14	.20	.42	.51	.75	.18	213.50	.53	.66	.43	.32	.21
9	.14	.20	.41	.65	.77	.22	.01	.49	.65	.43	.34	.22
10	.14	.27	.53	.97	.75	.19	214.83	.44	.63	.42	.34	.23
11	210.15	210.29	211.53	211.95	211.99	212.07	213.99	211.40	210.61	210.41	210.33	210.20
12	.15	.28	.70	.84	212.80	211.96	.31	.35	.60	.41	.32	.21
13	.15	.27	.71	.71	.56	.90	212.90	.31	.59	.40	.32	.21
14	.15	.27	.47	.64	.44	.82	.62	.28	.59	.40	.33	.20
15	.14	.27	.35	212.25	.34	.80	.37	.25	.58	.39	.32	.20
16	210.14	210.31	211.61	212.26	212.29	211.80	212.22	211.22	210.58	210.39	210.32	210.20
17	.15	.39	.95	.04	.17	.79	.14	.18	.57	.38	.31	.19
18	.16	.45	212.19	.07	.09	212.31	.13	.14	.57	.37	.31	.18
19	.16	.51	211.91	213.33	.02	.79	.13	.13	.56	.37	.31	.18
20	.25	.61	.92	.07	.04	.63	.04	.11	.56	.36	.31	.19
21	210.28	210.58	211.77	212.89	212.07	212.46	212.22	211.08	210.55	210.36	210.30	210.19
22	.27	.53	.75	.50	.03	.35	.06	.03	.55	.35	.31	.19
23	.26	.47	.87	.32	.10	.99	211.90	.01	.55	.35	.31	.21
24	.29	.45	.98	.27	.40	.94	.80	210.99	.53	.35	.31	.19
25	.27	.44	.99	.33	.46	.68	.72	.96	.53	.34	.31	.20
26	210.25	210.45	211.91	212.33	212.29	212.65	211.68	210.95	210.52	210.34	210.30	210.21
27	.24	.45	.82	.43	.45	.68	.64	.93	.52	.33	.28	.20
28	.22	.46	.76	.41	213.09	.75	.84	.92	.51	.33	.27	.20
29	.21	.49	.65	.59	212.68	.73	212.23	.90	.51	.32	.26	.19
30	.21	.58	.55	.47	.88	.73	.42	.82	.51	.31	-	.21
31	-	.68	-	.35	213.61	-	.18	-	.52	.30	-	.20
Mean	210.19	210.37	211.34	212.10	212.25	212.44	212.43	211.30	210.60	210.17	210.31	210.21
Max.	210.29	210.68	212.19	213.33	213.61	213.09	214.83	212.01	210.84	210.49	210.84	210.25
Min.	210.14	210.19	210.41	211.35	211.75	211.79	211.64	210.82	210.51	210.30	210.26	210.18

WATER YEAR 1971 : Max. 214.83 m. Min. 210.14 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.040	0.050	0.56	3.95	9.40	22	11	7.08	1.02	0.29	0.10	0.075
2	0.035	0.045	0.44	3.75	7.90	23	9.76	6.28	0.88	0.27	0.10	0.075
3	0.025	0.050	0.34	3.25	7.16	18	9.76	5.64	0.80	0.27	0.095	0.070
4	0.025	0.060	0.29	2.90	6.36	15	11	5.48	0.74	0.26	0.095	0.070
5	0.025	0.075	0.26	4.52	5.56	13	10	4.84	0.72	0.25	0.110	0.065
6	0.025	0.065	0.24	5.40	5.56	11	8.60	4.34	0.70	0.25	0.11	0.055
7	0.020	0.055	0.23	4.40	5.05	9.64	17	4.00	0.66	0.24	0.10	0.055
8	0.020	0.050	0.22	3.65	5.05	8.60	32	3.75	0.62	0.23	0.12	0.055
9	0.020	0.050	0.21	4.40	5.19	9.04	21	3.55	0.60	0.23	0.14	0.060
10	0.020	0.080	0.36	6.76	5.05	8.70	77	3.30	0.56	0.22	0.14	0.065
11	0.025	0.095	3.75	6.60	6.92	7.56	45	3.10	0.52	0.21	0.13	0.050
12	0.025	0.090	4.70	5.72	18	6.68	28	2.90	0.50	0.21	0.12	0.055
13	0.025	0.085	4.77	4.77	13	6.20	19	2.74	0.48	0.20	0.12	0.055
14	0.025	0.085	3.45	4.34	12	5.36	14	2.62	0.48	0.20	0.13	0.050
15	0.020	0.085	2.90	9.40	10	5.40	11	2.50	0.46	0.19	0.12	0.050
16	0.020	0.11	4.16	9.52	9.88	5.40	9.04	2.38	0.46	0.19	0.12	0.050
17	0.025	0.19	6.60	7.32	8.50	5.33	8.20	2.22	0.44	0.18	0.11	0.045
18	0.030	0.25	8.70	7.56	7.72	10	8.10	2.06	0.44	0.17	0.11	0.040
19	0.030	0.32	6.28	28	7.16	17	8.10	2.02	0.42	0.17	0.11	0.040
20	0.075	0.52	6.36	23	7.32	15	7.32	1.94	0.42	0.16	0.11	0.045
21	0.090	0.46	5.19	19	7.56	12	9.04	1.82	0.40	0.16	0.10	0.045
22	0.085	0.36	5.05	13	7.24	11	7.48	1.62	0.40	0.15	0.11	0.045
23	0.080	0.27	5.96	10	7.80	21	6.20	1.54	0.40	0.15	0.11	0.055
24	0.095	0.25	6.84	9.64	11	20	5.40	1.47	0.36	0.15	0.11	0.045
25	0.085	0.24	6.92	10	12	15	4.84	1.38	0.36	0.14	0.11	0.050
26	0.075	0.25	6.28	10	9.88	15	4.58	1.35	0.34	0.14	0.100	0.055
27	0.070	0.25	5.56	12	12	15	4.34	1.29	0.34	0.13	0.090	0.050
28	0.060	0.26	5.12	11	23	17	5.72	1.26	0.32	0.13	0.085	0.050
29	0.055	0.29	4.40	14	15	16	9.16	1.20	0.32	0.12	0.080	0.045
30	0.055	0.46	3.85	12	19	16	11	0.96	0.32	0.11	–	0.055
31	–	0.66	–	11	35	–	8.60	–	0.34	0.10	–	0.050
Total	1.305	6.165	109.99	280.85	322.26	380.11	441.24	86.63	15.82	5.87	3.185	1.670
Mean	0.043	0.20	3.67	9.06	10.4	12.7	14.2	2.89	0.51	0.19	0.11	0.054
Max.	0.095	0.66	8.70	28	35	23	77	7.08	1.02	0.29	0.14	0.075
Min.	0.020	0.045	0.21	2.90	5.05	5.33	4.34	0.96	0.32	0.10	0.080	0.040
Runoff - mcm.	0.113	0.533	9.503	24.265	27.843	32.841	38.123	7.485	1.367	0.507	0.275	0.144

WATER YEAR 1971 : Max. 77 Min. 0.020 Mean 4.53 Annual Runoff 143.000 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	16.00	215.95	131				

Lam Plai Mat at Ban Nong Bot Bridge, Buri Ram (M.82)

Location: Lat. 14°-37'-59" N., Long. 102°-43'-13" E., on left bank upstream the bridge on Chok-Chai – Det Udom road, Ban Nong Bot, Tambon Chum Saeng, Amphoe Nang Rong, Buri Ram.

Drainage Area: 1,581 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. M.82

Location: About 30 meters along the gage site.
Elevation: + 5.282 m. (A.D.)

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

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

Period of Available Gage Records: 1969-1971

Rating Operation:

Period of Rating: 1969-1971
Rated by Float: –
Rated by Current Meter: 1969-1971

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

Overbank Flow Conditions: No overbank flow.

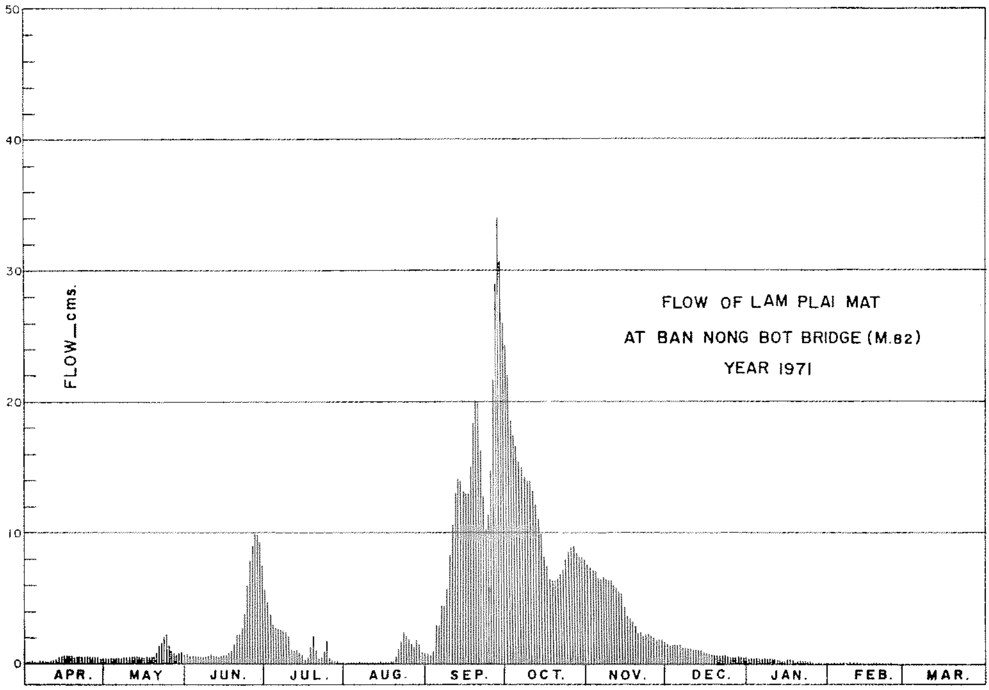
General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.52	2.73	2.79	3.65	2.59	2.83	5.09	3.93	3.01	2.73	2.44	2.34
2	.59	.72	.78	.53	.59	.80	4.95	.92	2.99	.72	.44	.33
3	.59	.72	.77	.39	.57	.89	.91	.90	3.00	.73	.48	.32
4	.57	.72	.77	.27	.57	3.27	.82	.89	.01	.73	.50	.31
5	.52	.72	.76	.24	.56	.43	.77	.83	.00	.72	.49	.30
6	2.60	2.74	2.75	3.24	2.59	3.52	4.74	3.82	2.98	2.71	2.50	2.29
7	.59	.73	.75	.23	.58	.54	.69	.83	.96	.70	.52	.29
8	.58	.74	.75	.19	.56	.75	.67	.82	.94	.72	.53	.28
9	.57	.75	.78	.13	.54	4.13	.67	.82	.93	.71	.52	.28
10	.59	.75	.79	.04	.50	.39	.63	.80	.92	.71	.50	.27
11	2.64	2.75	2.77	2.89	2.51	4.59	4.57	3.75	2.90	2.69	2.48	2.26
12	.70	.75	.76	.88	.56	.61	.48	.72	.90	.66	.47	.26
13	.75	.75	.75	.88	.55	.60	.36	.67	.88	.62	.46	.25
14	.76	.74	.78	.84	.56	.56	.22	.63	.87	.60	.46	.24
15	.78	.73	.79	.68	.55	.54	.05	.47	.85	.67	.46	.24
16	2.78	2.73	2.80	2.63	2.53	4.59	3.94	3.39	2.83	2.71	2.45	2.23
17	.77	.73	.85	.72	.56	.78	.82	.37	.82	.70	.43	.22
18	.76	.74	.89	.97	.60	.99	.81	.32	.80	.67	.41	.22
19	.76	.76	3.02	3.12	.63	.99	.80	.26	.79	.64	.40	.21
20	.76	.83	.15	2.90	.81	.91	.82	.17	.79	.64	.38	.20
21	2.75	2.99	3.15	2.73	2.95	4.73	3.86	3.20	2.79	2.62	2.39	2.20
22	.75	3.02	.30	.71	3.13	.46	.90	.13	.80	.59	.38	.20
23	.75	.10	.54	.84	.19	.28	.99	.18	.79	.56	.36	2.19
24	.74	.16	.83	3.06	.09	.57	4.06	.15	.78	.53	.35	.22
25	.73	2.97	4.01	2.74	.07	.94	.11	.11	.74	.47	.35	.21
26	2.72	2.87	4.16	2.64	2.96	5.28	4.13	3.08	2.74	2.43	2.35	2.22
27	.71	.83	.24	.62	.97	.40	.09	.05	.75	.41	.34	.21
28	.70	.80	.21	.61	3.04	.31	.05	.09	.75	.50	.34	.21
29	.69	.83	.13	.59	2.99	.21	.02	.08	.75	.48	.35	.20
30	.72	.87	3.84	.57	.85	.14	.02	.05	.75	.45	–	.20
31	–	.81	–	.57	.85	–	3.98	–	.74	.44	–	.20
Mean	2.70	2.82	2.25	2.72	2.79	4.37	4.36	3.88	2.86	2.64	2.43	2.24
Max.	2.78	3.16	4.24	3.65	3.19	5.40	5.09	3.93	3.01	2.73	2.53	2.34
Min.	2.52	2.72	2.75	2.57	2.50	2.80	3.80	3.05	2.74	2.41	2.34	2.19

WATER YEAR 1971 : Max. 5.40 m. Min. 2.19 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.49	0.67	5.35	0.19	0.82	22	7.44	1.55	0.49	0.04	
2	0.19	0.46	0.64	4.51	0.19	0.70	19	7.36	1.46	0.46	0.04	
3	0.19	0.46	0.61	3.64	0.17	1.06	18	7.20	1.50	0.49	0.08	
4	0.17	0.46	0.61	2.92	0.17	2.92	17	7.12	1.55	0.49	0.10	
5	0.12	0.46	0.58	2.74	0.16	2.88	16	6.64	1.50	0.46	0.09	
6	0.20	0.52	0.55	2.74	0.19	4.44	15	6.56	1.42	0.43	0.10	
7	0.19	0.49	0.55	2.68	0.18	4.58	15	6.64	1.34	0.40	0.12	
8	0.18	0.52	0.55	2.45	0.16	5.95	14	6.56	1.26	0.46	0.13	
9	0.17	0.55	0.64	2.51	0.14	9.07	14	6.56	1.22	0.43	0.12	
10	0.19	0.55	0.67	1.70	0.10	11	14	6.40	1.18	0.43	0.10	
11	0.28	0.55	0.61	1.06	0.11	13	13	5.95	1.10	0.38	0.08	
12	0.40	0.55	0.58	1.02	0.16	14	12	5.84	1.10	0.32	0.07	
13	0.55	0.55	0.55	1.02	0.15	14	11	5.49	1.02	0.24	0.06	
14	0.58	0.52	0.64	0.86	0.16	13	9.88	5.12	0.98	0.20	0.06	
15	0.64	0.49	0.67	0.36	0.15	13	8.40	4.12	0.90	0.34	0.06	
16	0.64	0.49	0.70	0.26	0.13	13	7.52	3.64	0.82	0.43	0.05	
17	0.61	0.49	0.90	0.46	0.16	16	6.56	3.52	0.78	0.40	0.03	
18	0.58	0.52	1.06	1.38	0.20	20	6.48	3.22	0.70	0.34	0.01	
19	0.58	0.58	1.60	2.10	0.26	20	6.40	2.86	0.67	0.28	0.00	
20	0.58	0.82	2.25	1.10	0.74	18	6.56	2.35	0.67	0.28		
21	0.55	1.46	2.25	0.49	1.30	15	6.88	2.50	0.67	0.24		
22	0.55	1.60	3.10	0.43	2.15	12	7.20	2.15	0.70	0.19		
23	0.55	2.00	4.58	0.86	2.45	10	7.92	2.40	0.67	0.16		
24	0.52	2.30	6.64	1.80	1.95	13	8.48	2.25	0.64	0.13		
25	0.49	1.38	8.08	0.52	1.85	19	8.89	2.05	0.52	0.07		
26	0.46	0.98	9.34	0.25	1.34	29	9.07	1.90	0.52	0.03		
27	0.43	0.82	10	0.24	1.38	34	8.79	1.75	0.55	0.01		
28	0.40	0.70	9.79	0.22	1.70	30	8.40	1.95	0.55	0.10		
29	0.38	0.82	9.07	0.19	1.46	26	8.16	1.90	0.55	0.08		
30	0.46	0.98	6.72	0.17	0.90	24	8.16	1.75	0.55	0.05		
31	–	0.74	–	0.17	0.90	–	7.84	–	0.52	0.04		
Total	11.95	24.3	85.2	45.8	21.2	409.45	341	131	29.1	8.85	1.34	
Mean	0.40	0.78	2.84	1.46	0.68	13.6	11.0	4.37	0.94	0.28	0.046	
Max.	0.64	2.30	10	5.35	2.45	34	22	7.44	1.55	0.49	0.13	
Min.	0.12	0.46	0.55	0.17	0.10	0.70	6.40	1.75	0.52	0.04	0.00	
Runoff - mcm.	1.032	2.099	7.361	3.957	1.832	35.338	29.462	11.318	2.514	0.765	0.116	

WATER YEAR 1971 : Max. 34 Min. 0.00 Mean 3.03 Annual Runoff 95.769 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.27	12.00	5.41	35				

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

Location: Lat. 14^{o}–41'–46" N., Long. 101^{o}–25'–07" E., on left bank at the bridge on Pak Chong – Nakhon Ratchasima highway infront of Vaccine Serum office, Amphoe Pak Chong, Nakhon Ratchasima.

Drainage Area: 699 sq.km.

Type of Gage: Water–stage recorder

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

Bench Mark: B.M. – H.S.

Location: On left bank at abutment of the bridge.
Elevation: + 8.909 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1970 to date

Rating Operation:

Period of Rating: 1969 to date
Rated by Float: –
Rated by Current Meter: 1969 to date

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

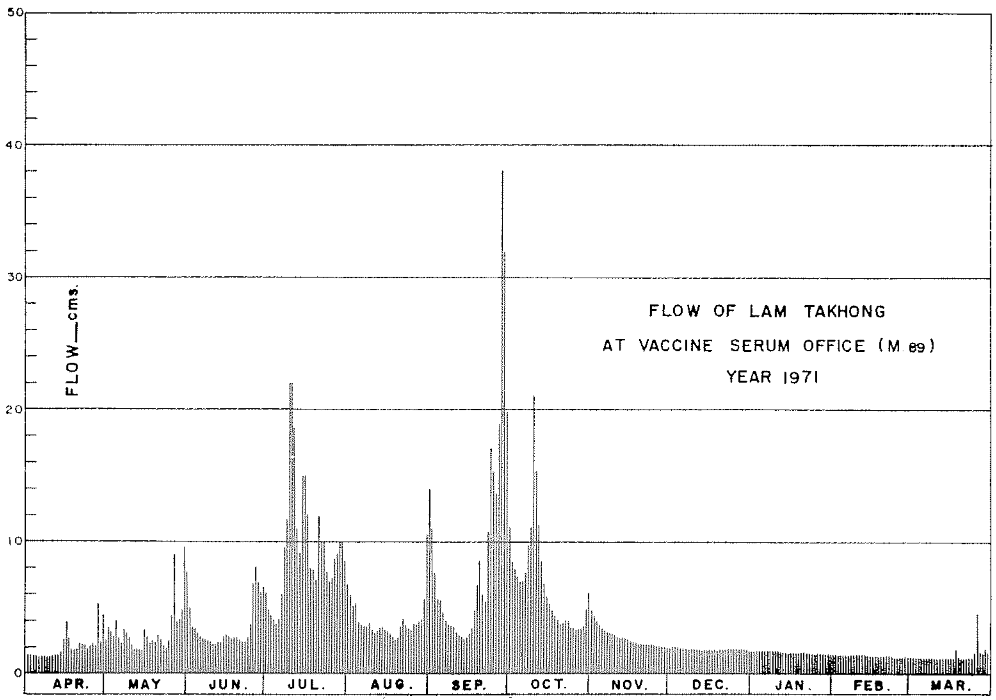
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.17	1.33	1.65	1.69	1.72	2.23	2.05	1.57	1.27	1.24	1.20	1.17
2	.17	.44	.51	.58	.66	1.99	1.88	.53	.26	.24	1.20	.17
3	.17	.39	.44	.54	.60	.78	.82	.50	.26	.24	1.19	.15
4	.16	.56	.44	.51	.54	.66	.78	.47	.26	.24	1.18	.15
5	.16	.50	.38	.47	.49	.64	.68	.45	.26	.24	1.19	.15
6	1.16	1.34	1.36	1.49	1.47	1.56	1.68	1.43	1.26	1.24	1.19	1.15
7	.16	.28	.38	.63	.44	.51	.74	.42	.26	.24	1.19	.15
8	.18	.42	.34	.89	.44	.48	.97	.40	.26	.24	1.19	.15
9	.16	.40	.34	2.06	.48	.48	.94	.39	.26	.23	1.19	.15
10	.16	.34	.32	.68	.44	.45	2.61	.38	.26	.23	1.19	.15
11	1.17	1.29	1.30	2.66	1.41	1.42	2.28	1.36	1.26	1.23	1.19	1.15
12	.19	.25	.31	.16	.41	.39	1.99	.36	.25	.22	1.19	.15
13	.19	.25	.32	1.91	.43	.38	.83	.36	.25	.22	1.19	.15
14	.24	.25	.33	.87	.46	.36	.72	.35	.25	.22	1.18	.15
15	.37	.22	.37	2.31	.43	.36	.66	.33	.25	.22	1.18	.15
16	1.48	1.44	1.38	2.32	1.42	1.39	1.61	1.32	1.25	1.22	1.18	1.15
17	.26	.36	.36	1.96	.39	.44	.57	.32	.25	.22	.18	.15
18	.24	.31	.34	.83	.37	.55	.54	.31	.25	.22	.18	.23
19	.22	.34	.36	.82	.35	.79	.51	.31	.25	.22	.18	.15
20	.27	.31	.36	.75	.36	.88	.49	.30	.26	.22	.17	.15
21	1.30	1.38	1.34	2.16	1.46	1.70	1.49	1.30	1.26		1.18	1.14
22	.29	.34	.33	1.97	.51	.58	.51	.30	.26	.22	.18	.15
23	.28	.28	.33	2.00	.47	2.13	.50	.29	.27	.21	.18	.15
24	.23	.26	.34	1.83	.45	.39	.46	.29	.26	.21	.17	.15
25	.26	.30	.49	.79	.43	.27	.45	.29	.25	.20	.17	.15
26	1.31	1.49	1.75	1.73	1.48	2.13	1.44	1.28	1.25	1.20	1.17	1.54
27	.28	.92	.84	.89	.47	.44	.45	.28	.25	.20	.17	.20
28	.62	.48	.76	.91	.50	3.46	.45	.28	.25	.20	.17	.19
29	.29	.49	.68	.99	.51	2.93	.45	.28	.25	.20	.17	.25
30	.33	.58	.73	.98	.58	.35	.57	.28	.25	.20	–	.20
31	–	.95	–	.84	2.14	–	.69	–	.24	.20	–	.24
Mean	1.25	1.40	1.44	1.91	1.49	1.84	1.70	1.36	1.25	1.22	1.18	1.18
Max.	1.62	1.95	1.84	2.68	2.14	3.46	2.61	1.57	1.27	1.24	1.20	1.54
Min.	1.16	1.22	1.30	1.47	1.35	1.36	1.44	1.28	1.24	1.20	1.17	1.14

WATER YEAR 1971 : Max. 3.46 m. Min. 1.14 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.28	2.45	5.62	6.08	6.46	14	11	4.73	1.99	1.78	1.50	1.28
2	1.28	3.43	4.10	4.84	5.74	10	8.58	4.31	1.92	1.78	1.50	1.28
3	1.28	2.96	3.43	4.42	5.05	7.24	7.77	4.00	1.92	1.78	1.40	1.16
4	1.22	2.63	3.43	4.10	5.42	5.74	7.24	3.71	1.92	1.78	1.34	1.16
5	1.22	4.00	2.88	3.71	3.90	5.51	5.97	3.52	1.92	1.78	1.40	1.16
6	1.22	2.54	2.71	3.90	3.71	4.63	5.97	3.33	1.92	1.78	1.40	1.16
7	1.22	2.06	2.88	5.39	3.43	4.10	6.72	3.24	1.92	1.78	1.40	1.16
8	1.34	3.24	2.54	8.71	3.43	3.81	9.80	3.05	1.92	1.78	1.40	1.16
9	1.22	3.05	2.54	11	3.81	3.81	9.43	2.96	1.92	1.71	1.40	1.16
10	1.22	2.54	2.37	22	3.43	3.52	21	2.88	1.92	1.71	1.40	1.16
11	1.28	2.13	2.20	22	3.14	3.24	15	2.71	1.92	1.71	1.40	1.16
12	1.40	1.85	2.28	13	3.14	2.96	10	2.71	1.85	1.64	1.40	1.16
13	1.40	1.85	2.37	8.99	3.33	2.88	7.90	2.71	1.85	1.64	1.40	1.16
14	1.78	1.85	2.45	8.44	3.62	2.71	6.46	2.62	1.85	1.64	1.34	1.16
15	2.79	1.64	2.79	15	3.33	2.71	5.74	2.45	1.85	1.64	1.34	1.16
16	3.81	3.43	2.88	15	3.24	2.96	5.16	2.37	1.85	1.64	1.34	1.16
17	1.92	2.71	2.71	9.72	2.96	3.43	4.73	2.37	1.85	1.64	1.34	1.16
18	1.78	2.28	2.54	7.90	2.79	4.52	4.42	2.28	1.85	1.64	1.34	1.71
19	1.64	2.54	2.71	7.77	2.62	7.37	4.10	2.28	1.85	1.64	1.34	1.16
20	1.99	2.28	2.71	6.85	2.71	8.58	3.90	2.20	1.92	1.64	1.28	1.16
21	2.20	2.88	2.54	12	3.62	6.20	3.90	2.20	1.92	1.64	1.34	1.10
22	2.13	2.54	2.45	9.86	4.10	4.84	4.10	2.20	1.92	1.64	1.34	1.16
23	2.06	2.06	2.45	10	3.71	12	4.00	2.13	1.99	1.57	1.34	1.16
24	1.71	1.92	2.54	7.90	3.52	17	3.62	2.13	1.92	1.57	1.28	1.16
25	1.92	2.20	3.90	7.37	3.33	15	3.52	2.13	1.85	1.50	1.28	1.16
26	2.28	3.90	6.85	6.59	3.81	12	3.43	2.06	1.85	1.50	1.28	4.42
27	2.06	9.14	8.04	8.71	3.71	18	3.52	2.06	1.85	1.50	1.28	1.50
28	5.28	3.81	6.98	8.99	4.00	38	3.52	2.06	1.85	1.50	1.28	1.40
29	2.13	3.90	5.97	10	4.10	27	3.52	2.06	1.85	1.50	1.28	1.85
30	2.45	4.84	6.59	10	4.84	16	4.73	2.06	1.85	1.50	–	1.50
31	–	9.57	–	8.04	12	–	6.08	–	1.78	1.50	–	1.78
Total	56.51	98.22	106.45	288.28	126.00	269.76	204.83	81.52	58.54	51.05	39.36	42.18
Mean	1.88	3.17	3.55	9.30	4.06	9.00	6.61	2.72	1.89	1.65	1.36	1.36
Max.	5.28	9.57	8.04	22	12	38	21	4.73	1.99	1.78	1.50	4.42
Min.	1.22	1.64	2.20	3.71	2.62	2.71	3.43	2.06	1.78	1.50	1.28	1.10
Runoff - mcm.	4.882	8.466	9.197	24.907	10.886	23.307	17.697	7.043	5.058	4.411	3.401	3.644

WATER YEAR 1971 : Max. 38 Min. 1.10 Mean 3.89 Annual Runoff 122.921 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.28	23.00	3.78	45				

Nakhon Nayok River at Khao Kariang, Nakhon Nayok (Ny.1)

Location: Lat. 14°-14'-22" N., Long. 101°-16'-45" E., on left bank at Khao Kariang about 12 kilometers upstream from Muang Nakhon Nayok.

Drainage Area: 520 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 2.970 m. (M.S.L.)

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

Location: Near the top gage.
Elevation: + 9.791 m. (M.S.L.)

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

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

Period of Available Gage Records: 1952-1972

Rating Operation:

Period of Rating: 1953, 1955-57, 1967-72
Rated by Float: -
Rated by Current Meter: 1953, 1955-57, 1967-71

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

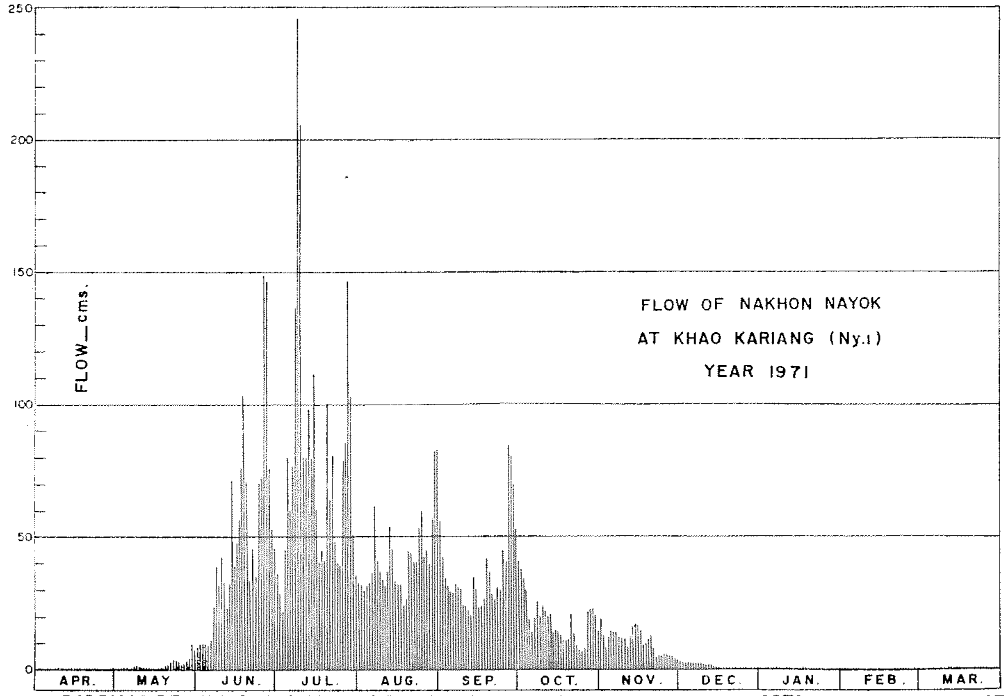
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Nakhon Nayok Dam. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.39	3.42	4.00	4.91	4.78	5.34	5.00	4.61	4.05	3.50	3.40	3.39
2	.39	.42	.05	.77	.79	.02	4.93	.45	.04	.49	.40	.39
3	.38	.42	.05	.45	.69	4.84	.89	.26	.03	.48	.40	.39
4	.37	.46	.03	5.17	.78	.79	.77	.44	.00	.47	.40	.38
5	.37	.47	.00	.79	.82	.71	.61	.52	3.97	.47	.40	.37
6	3.37	3.45	4.11	5.41	4.88	4.71	4.51	4.49	3.99	3.47	3.40	3.37
7	.37	.47	.51	.81	5.45	.79	.63	.49	.99	.47	.40	.36
8	.37	.50	.95	6.66	.00	.76	.74	.44	.98	.46	.42	.35
9	.37	.50	.75	8.10	4.94	.73	.62	.43	.96	.46	.42	.34
10	.37	.48	5.03	6.43	.87	.55	.70	.42	.95	.46	.42	.34
11	3.37	3.44	4.81	5.79	4.76	4.56	4.64	4.31	3.93	3.46	3.42	3.34
12	.37	.43	.49	.79	5.35	.51	.62	.53	.90	.46	.42	.34
13	.37	.43	.85	6.09	.28	.43	.64	.56	.86	.46	.42	.34
14	.37	.42	.62	5.70	.04	.87	.51	.57	.79	.45	.42	.34
15	.37	.42	4.93	6.28	4.80	.72	.53	.56	.74	.45	.42	.34
16	3.37	3.42	5.25	5.41	4.78	4.52	4.51	4.53	3.69	3.44	3.42	3.34
17	.37	.42	.42	4.98	.80	.56	.48	.36	.68	.44	.42	.34
18	.37	.42	6.17	5.09	.57	.63	.41	.38	.62	.44	.42	.34
19	.37	.48	5.58	4.98	.59	5.03	.41	.44	.59	.44	.42	.34
20	.40	.51	.26	6.11	5.08	4.90	4.44	.46	.57	.44	.42	.34
21	3.43	3.59	4.80	5.50	5.06	4.67	4.64	4.33	3.56	3.44	3.42	3.34
22	.42	.57	5.08	5.80	4.99	.61	.42	.11	.56	.44	.42	.34
23	.40	.71	4.74	5.13	.97	.77	.38	.15	.55	.44	.42	.34
24	.39	.67	5.62	4.98	5.26	.71	.28	.17	.54	.44	.42	.33
25	.40	.57	.66	4.95	.42	5.10	.21	.19	.54	.44	.42	.33
26	3.40	3.54	6.83	5.79	5.02	4.86	4.31	4.18	3.52	3.44	3.42	3.33
27	.41	.58	.73	.90	.10	5.87	.66	.15	.52	.44	.41	.33
28	.41	.67	.78	6.80	4.91	.80	.69	.09	.51	.44	.40	.33
29	.45	.77	5.69	5.77	5.27	.61	.68	.06	.50	.44	.39	.33
30	.45	4.06	.28	.31	.81	.18	.65	.06	.50	.44		.33
31	-	3.95	.17	4.88	.84	-	.50	-	.50	.44	-	.33
Mean	3.39	3.54	5.01	5.63	5.02	4.87	4.58	4.36	3.75	3.34	3.40	3.35
Max.	3.45	4.06	6.83	8.10	5.84	5.87	5.00	4.61	4.05	3.50	3.42	3.39
Min.	3.37	3.42	4.00	4.45	4.57	4.43	4.21	4.06	3.50	3.44	3.39	3.33

WATER YEAR 1971 : Max. 8.10 m. Min. 3.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.28	8.50	37	32	56	41	19	3.25	0.25	0.10	0.090
2	0.05	0.28	9.50	31	32	42	38	12	3.10	0.21	0.10	0.090
3	0.04	0.28	9.50	20	29	34	35	7.20	2.95	0.20	0.10	0.090
4	0.04	0.74	9.10	49	32	32	28	12	2.50	0.19	0.10	0.080
5	0.04	0.86	8.50	80	33	29	19	15	2.20	0.19	0.10	0.070
6	0.04	0.63	11	59	36	29	14	14	2.40	0.19	0.10	0.070
7	0.04	0.86	22	82	62	32	20	14	2.40	0.19	0.10	0.060
8	0.04	1.20	39	137	41	31	26	12	2.30	0.18	0.13	0.050
9	0.04	1.20	31	246	38	30	20	12	2.10	0.18	0.13	0.040
10	0.04	0.97	42	121	35	24	24	12	2.00	0.18	0.13	0.040
11	0.04	0.51	33	80	31	24	21	8.30	1.80	0.18	0.13	0.040
12	0.04	0.40	22	80	37	22	20	15	1.50	0.18	0.13	0.040
13	0.04	0.40	34	98	54	20	21	17	1.30	0.18	0.13	0.040
14	0.04	0.28	71	75	43	35	14	17	0.95	0.17	0.13	0.040
15	0.04	0.28	38	111	32	30	15	17	0.73	0.17	0.13	0.040
16	0.04	0.28	52	59	32	23	14	15	0.53	0.17	0.13	0.040
17	0.04	0.28	60	40	32	24	13	9.80	0.52	0.17	0.13	0.040
18	0.04	0.28	103	45	24	26	11	10	0.43	0.17	0.13	0.040
19	0.04	0.97	69	40	25	42	11	12	0.38	0.17	0.13	0.040
20	0.05	1.32	53	100	45	36	12	13	0.35	0.17	0.13	0.040
21	0.40	2.28	32	64	44	28	21	8.90	0.34	0.16	0.13	0.040
22	0.28	2.04	45	81	40	26	12	4.20	0.34	0.16	0.13	0.040
23	0.05	3.83	30	47	40	31	10	5.00	0.32	0.16	0.13	0.040
24	0.05	3.31	71	40	53	29	7.60	5.40	0.31	0.16	0.13	0.030
25	0.05	2.04	73	39	60	45	6.20	5.80	0.31	0.16	0.13	0.030
26	0.05	1.68	149	80	42	35	8.30	5.60	0.28	0.16	0.13	0.030
27	0.17	2.16	146	87	45	85	22	5.00	0.28	0.16	0.11	0.030
28	0.17	3.31	75	147	37	81	23	4.85	0.26	0.16	0.10	0.030
29	0.63	4.61	54	79	53	70	23	3.40	0.25	0.16	0.090	0.030
30	0.63	9.70	49	55	82	49	21	3.40	0.25	0.16	–	0.030
31	–	7.50	–	36	83	–	14	–	0.25	0.16	–	0.030
Total	3.31	54.76	1,449.10	2,345	1,324	1,100	585.10	314.85	36.88	5.45	3.47	1.44
Mean	0.11	1.77	48.3	75.6	42.7	36.6	18.8	10.4	1.19	0.17	0.12	0.46
Max.	0.63	9.70	149	246	83	85	41	19	3.25	0.25	0.13	0.09
Min.	0.04	0.28	8.50	20	24	20	6.20	3.40	0.25	0.16	0.09	0.03
Runoff ~ mcm.	0.286	4.731	125.202	202.608	114.394	95.040	50.553	27.203	3.186	0.471	0.300	0.124

WATER YEAR 1971 : Max. 246 Min. 0.03 Mean 19.7 Annual Runoff 624.098 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 9	06.00	8.62	288				

Prachin Buri River at Amphoe Kabin Buri, Prachin Buri (Kgt.3)

Location: Lat. 13°-59'-05" N., Long. 101°-42'-32" E., on left bank infront of Amphoe Kabin Buri office, and about 500 meters downstream from confluence of Lam Phra Prong and Lam Hanuman, Amphoe Kabin Buri, Prachin Buri.

Drainage Area: 7,502 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: - 0.49 m. (M.S.L.)

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

Location: at the fence of Amphoe Kabin Buri office.
Elevation: + 10.179 m. (M.S.L.)

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

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

Period of Available Gage Records: 1941 to date

Rating Operation:

Period of Rating: 1941-1943, 1945, 1964 to date.
Rated by Float: -
Rated by Current Meter: 1941-1943, 1945, 1964 to date.

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

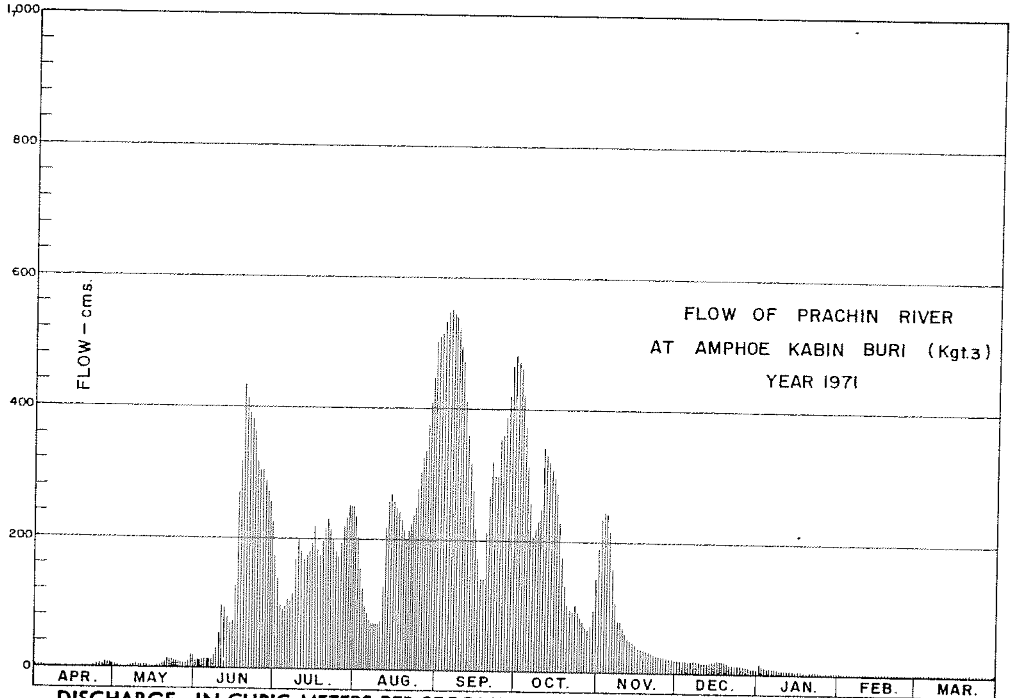
Overbank Flow Conditions: No overbank flow.

General Descriptions: Records good. Stage-discharge used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.35	0.59	0.96	4.44	5.32	8.52	8.11	5.07	1.29	1.23	0.53	0.53
2	.35	.56	1.03	3.86	4.76	.54	7.95	.51	.27	.04	.57	.51
3	.34	.52	.00	.29	3.93	.76	.38	.50	.27	0.90	.57	.48
4	.33	.48	.11	.04	.28	.84	6.85	.48	.29	.84	.56	.48
5	.32	.46	.11	.11	2.90	.86	5.93	4.84	.28	.81	.61	.46
6	0.32	0.50	1.01	3.24	2.75	8.82	5.30	3.79	1.28	0.78	0.58	0.46
7	.32	.48	.01	.27	.64	.71	4.99	.11	.26	.77	.58	.45
8	.31	.67	.12	.59	.65	.57	5.28	2.79	.27	.76	.58	.44
9	.30	.72	.59	4.51	.57	.36	.42	.79	.23	.73	.57	.43
10	.32	.66	2.10	.88	.62	.03	.86	.56	.21	.73	.56	.43
11	0.32	0.64	3.16	4.66	3.11	7.53	6.80	2.31	1.20	0.73	0.56	0.43
12	.36	.71	.05	.34	5.07	6.92	.63	.18	.22	.71	.56	.43
13	.35	.63	2.78	.49	.75	.41	.45	.07	.22	.70	.56	.42
14	.33	.59	.60	.53	.91	5.57	.32	1.99	.23	.69	.56	.42
15	.32	.56	.53	5.05	.72	4.77	.15	.91	.22	.68	.56	.41
16	0.32	0.54	3.79	5.19	5.57	4.23	5.62	1.83	1.27	0.67	0.55	0.41
17	.31	.60	5.90	4.67	.46	3.87	4.95	.71	.36	.66	.55	.41
18	.30	.61	6.34	.36	.35	.94	3.81	.69	.28	.66	.54	.41
19	.35	.58	7.80	.83	.14	5.01	.37	.64	.18	.65	.54	.59
20	.39	.74	.64	5.12	4.90	6.08	.14	.63	.13	.64	.54	.58
21	0.45	1.11	7.39	5.34	5.18	6.54	3.10	1.57	1.08	0.64	0.53	0.53
22	.49	.10	.31	.10	.41	.22	.05	.53	.05	.63	.52	.48
23	.43	0.95	.18	4.94	.53	.25	.23	.48	.04	.62	.57	.45
24	.47	.88	6.66	.68	.94	.96	.11	.43	.04	.62	.56	.44
25	.69	.86	.30	.44	6.44	7.01	2.79	.40	0.97	.62	.55	.42
26	0.65	0.85	6.36	4.47	6.62	7.18	2.60	1.40	0.94	0.61	0.53	0.44
27	.59	.79	.26	5.15	.75	.54	.46	.38	.91	.60	.51	.42
28	.82	.71	.09	.32	7.28	.93	.44	.37	.88	.59	.52	.42
29	.69	.78	5.76	.65	.68	8.14	.76	.36	.87	.58	.53	.43
30	.62	1.29	.07	.62	8.04	.23	3.39	.32	.86	.58		.45
31	-	.24	-	.58	.46	-	4.44	-	.71	.58	-	.43
Mean	0.42	0.73	3.94	4.54	5.12	7.08	4.83	2.49	1.14	0.71	0.55	0.45
Max.	0.82	1.39	7.80	5.65	8.46	8.86	8.11	5.51	1.36	1.23	0.61	0.59
Min.	0.30	0.46	0.96	3.04	2.57	3.87	2.44	1.32	0.71	0.58	0.51	0.41

WATER YEAR 1971 : Max. 8.86 m. Min. 0.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	3.80	11	171	229	513	468	212	20	18	3.70	2.95
2	1.00	3.40	13	137	190	515	449	243	20	13	3.55	2.65
3	0.90	2.80	12	105	141	540	392	242	20	10	3.55	2.30
4	0.80	2.30	15	92	104	548	345	241	20	8.80	3.40	2.30
5	0.70	2.10	15	95	85	551	272	197	20	8.20	4.20	2.10
6	0.70	2.50	13	108	77	545	228	132	20	7.60	3.70	2.10
7	0.70	2.30	13	104	72	534	206	95	19	7.40	3.70	2.00
8	0.60	5.40	15	121	72	519	227	79	20	7.20	3.70	1.90
9	0.50	6.40	29	176	69	495	236	79	18	6.60	3.55	1.80
10	0.70	5.20	48	199	71	459	267	68	18	6.60	3.40	1.80
11	0.70	4.80	98	185	95	407	341	57	17	6.60	3.40	1.80
12	1.10	6.20	92	165	212	351	327	51	18	6.20	3.40	1.80
13	1.00	4.60	79	174	259	310	313	47	18	6.00	3.40	1.80
14	0.80	3.85	70	177	271	247	303	44	18	5.80	3.40	1.70
15	0.70	3.40	67	210	257	192	289	41	18	5.60	3.40	1.60
16	0.50	3.10	132	220	247	159	250	38	20	5.40	3.25	1.60
17	0.60	4.00	270	185	237	137	204	38	22	5.20	3.25	1.60
18	0.50	4.20	304	167	231	141	134	33	20	5.20	3.10	1.60
19	1.00	3.70	434	196	217	208	109	31	17	5.00	3.10	3.85
20	1.40	6.80	418	215	200	283	97	31	16	4.60	3.10	3.70
21	2.00	15	393	231	220	320	95	29	14	4.80	2.95	2.95
22	2.40	15	386	214	236	295	92	27	14	4.60	2.80	2.30
23	1.80	11	374	203	244	297	102	26	13	4.40	3.55	2.00
24	2.20	10	330	186	273	354	95	24	13	4.40	3.40	1.90
25	5.80	9.20	301	171	312	359	79	23	12	4.40	3.25	1.70
26	5.00	9.00	306	173	327	374	70	23	11	4.20	2.95	1.90
27	3.85	7.80	298	217	337	408	64	23	10	4.00	2.65	1.70
28	8.40	6.20	284	229	383	447	63	23	9.60	3.85	2.80	1.70
29	5.80	7.60	260	252	422	471	78	22	9.40	3.70	2.95	1.80
30	4.40	23	212	250	460	461	110	21	9.20	3.70	–	2.00
31	–	19	–	248	507	–	171	–	6.20	3.70	–	1.80
Total	57.55	213.65	5,292	5,576	7,059	11,460	6,476	2,236	500.40	194.95	96.55	64.70
Mean	1.92	6.89	176	171	228	382	209	74.5	16.1	6.29	3.33	2.09
Max.	8.40	23	434	252	507	551	468	243	22	18	4.20	3.85
Min.	0.50	2.10	11	92	69	137	63	21	6.20	3.70	2.65	1.60
Runoff – mcm.	4.972	18.459	457.229	481.766	609.898	990.144	559.526	193.190	43.235	16.844	8.342	5.590

WATER YEAR 1971 : Max. 551 Min. 0.50 Mean 107 Annual Runoff 3,389.195 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.5	06.00	8.87	552				

Prachin Buri River at Amphoe Si Maha Phot, Prachin Buri (Kgt. 6)

Location: Lat. 13°-58'-21" N., Long. 101°-30'-57" E., on left bank, 25 meters south of the Wat Prathum, Amphoe Si Maha Phot, Prachin Buri.

Drainage Area: 7,978 sq.km.

Type of Gage: Staff gage

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

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

- Location: on left bank, 10 meters south of the Wat Prathum.
- Elevation: + 8.310 m. (A.D.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

- Period of Rating: 1967
- Rated by Float: -
- Rated by Current Meter: 1967

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

Overbank Flow Conditions: No overbank flow.

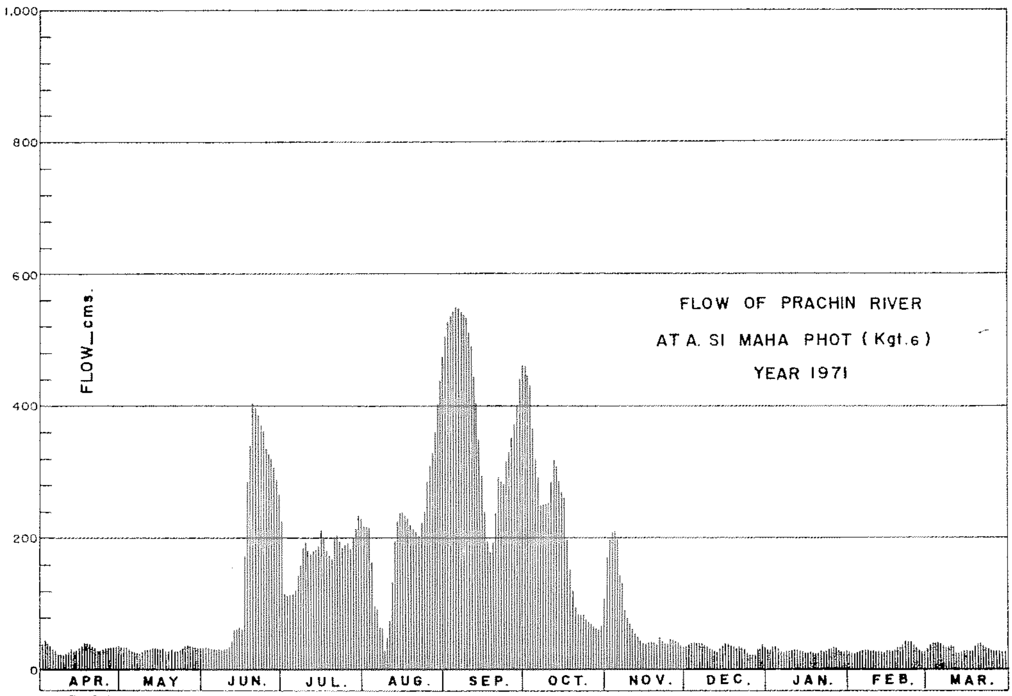
General Description: Records good. Stage-discharge used is defined by discharge measurements made during 1967. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

Remarks: Flow are under influence of tidal on Dry Season.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.59	2.42	2.45	5.43	5.42	7.70	7.40	4.83	2.55	2.31	2.19	2.62
2	.76	.50	.44	4.11	.40	.79	.35	5.19	.58	.50	.13	.56
3	.54	.43	.42	.08	.42	.86	.19	.31	.54	.52	.18	.58
4	.44	.35	.35	.08	4.82	.90	6.77	.36	.49	.49	.23	.64
5	.30	.29	.37	.09	3.45	.93	.45	.19	.60	.30	.36	.70
6	2.23	2.24	2.34	4.10	3.33	7.91	6.14	4.57	2.63	2.30	2.39	2.65
7	.09	.21	.38	.61	.24	.90	5.73	.07	.63	.33	.40	.59
8	.08	.28	.32	.72	.16	.87	.79	3.75	.61	.31	.32	.54
9	.02	.43	.42	5.11	2.21	.84	.78	.50	.53	.33	.23	.59
10	.15	.41	.60	.15	.98	.68	.83	.40	.48	.25	.22	.59
11	2.26	2.39	3.09	4.95	3.65	7.57	6.25	3.12	2.38	2.40	2.30	2.37
12	.35	.39	.13	.96	4.57	.20	.36	2.96	.34	.40	.24	.16
13	.30	.45	2.98	.97	5.28	6.93	.26	.85	.25	.32	.30	.12
14	.40	.41	3.09	5.05	.61	.49	.08	.75	.30	.29	.27	.13
15	.49	.34	.21	.13	.69	.02	5.94	.59	.50	.22	.35	.29
16	2.59	2.41	3.10	5.38	5.63	5.59	5.88	2.64	2.51	2.22	2.28	2.30
17	.68	.36	4.79	.21	.60	.21	.30	.68	.46	.29	.31	.24
18	.67	.28	5.87	4.98	.59	4.95	4.62	.69	.56	.23	.32	.24
19	.54	.38	6.76	.88	.40	5.25	.06	.62	.45	.18	.44	.56
20	.48	.25	7.02	5.07	.45	.67	3.73	.84	.46	.20	.52	.57
21	2.35	2.31	6.98	5.27	5.28	6.16	3.63	2.82	2.53	2.29	2.66	2.62
22	.29	.22	.93	.27	.25	.10	.53	.66	.47	.29	.70	.48
23	.37	.40	.82	.16	.43	.07	.57	.63	.41	.23	.67	.55
24	.34	.49	.75	.02	.63	.34	.43	.61	.02	.33	.73	.48
25	.47	.52	.50	.15	6.13	.54	.35	.80	.10	.29	.55	.35
26	2.43	2.44	6.45	5.11	6.30	6.64	3.20	2.74	2.07	2.45	2.46	2.26
27	.44	.47	.41	.00	.46	.84	.18	.75	.01	.39	.32	.24
28	.52	.42	.25	.27	.70	7.06	.04	.65	.44	.28	.19	.26
29	.47	.47	.13	.47	.99	.31	.10	.57	.42	.12	-	.26
30	.52	.38	5.96	.58	7.23	.40	.31	.44	.60	.23	-	.32
31	-	.42	-	.55	.51	-	4.07	-	.40	.20	-	.37
Mean	2.40	2.37	4.41	4.96	5.98	7.17	5.04	3.31	2.42	2.30	2.37	2.43
Max.	2.76	2.52	7.02	5.58	7.51	7.93	7.40	5.36	2.63	2.52	2.73	2.70
Min.	2.02	2.21	2.32	4.08	2.21	4.95	3.04	2.44	2.01	2.12	2.13	2.12

WATER YEAR 1971 : Max. 7.93 m. Min. 2.01 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	37	32	33	217	216	510	461	167	36	28	25	29
2	44	34	33	115	214	525	453	196	37	34	23	36
3	36	32	32	113	216	537	428	206	36	35	24	37
4	33	30	30	113	166	544	368	211	34	34	26	40
5	28	28	30	114	76	549	327	196	38	28	30	42
6	26	26	29	115	70	546	290	147	39	28	31	40
7	22	25	31	150	65	544	246	113	39	29	31	37
8	22	27	29	158	62	540	252	93	38	28	29	36
9	20	32	32	189	25	533	251	79	35	29	26	37
10	24	32	38	192	54	507	257	74	34	27	26	37
11	27	31	59	176	87	489	303	60	31	31	28	30
12	30	31	60	177	147	430	316	53	29	32	26	24
13	28	33	54	178	203	390	304	48	27	29	28	23
14	32	32	59	184	234	332	283	44	28	28	27	23
15	34	29	64	190	242	277	268	38	34	26	30	28
16	37	32	59	213	236	232	262	40	35	26	27	28
17	41	30	164	197	233	197	205	41	33	28	28	26
18	41	27	261	178	233	176	151	42	36	26	29	26
19	36	31	367	171	214	201	112	39	33	24	32	36
20	34	27	403	186	219	240	92	48	33	25	35	37
21	30	28	397	202	203	292	86	47	35	28	40	39
22	28	26	390	202	201	285	81	40	33	28	42	34
23	30	31	375	193	217	282	83	39	32	26	41	36
24	29	34	366	182	236	314	75	38	20	29	43	34
25	33	35	333	192	289	338	71	46	22	28	36	30
26	32	33	327	189	309	351	64	44	22	33	33	27
27	33	33	322	180	328	378	63	44	21	31	29	26
28	35	32	303	202	359	409	56	40	33	27	25	27
29	33	33	289	221	399	447	59	37	32	23	–	27
30	35	31	270	232	435	461	69	33	38	26	–	29
31	–	32	–	229	479	–	113	–	31	25	–	30
Total	950	949	5,239	5,550	6,667	11,856	6,449	2,343	1,004	879	850	991
Mean	31.6	30.6	175	179	215	395	208	78.1	32.3	28.3	30.3	32.0
Max.	44	35	403	232	479	549	461	211	39	35	43	42
Min.	20	25	29	113	25	176	56	33	20	23	23	23
Runoff - mcm.	82.080	81.994	452.650	479.520	576.029	1,024.358	557.194	202.435	86.746	75.946	73.440	85.622

WATER YEAR 1971 : Max. 549 Min. 20 Mean 120 Annual Runoff 3,778.013 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.5	18.00	+7.93	549				

Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt. 10)

Location: Lat. 13°-48'-29" N., Long. 102°-03'-35" E., on left bank near Saha Charoen Saw-Mill, Ban Wang Khian, Amphoe Sa Kaeo, Prachin Buri.

Drainage Area: 2,523 sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 23.741 m. (M.S.L.)

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

Location: at the cocoa nut tree near the station office.
Elevation: + 34.652 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

Stability of Channel Regimes: Fairly Stable with variable water surface slope, no shifting adjustment for flow computation.

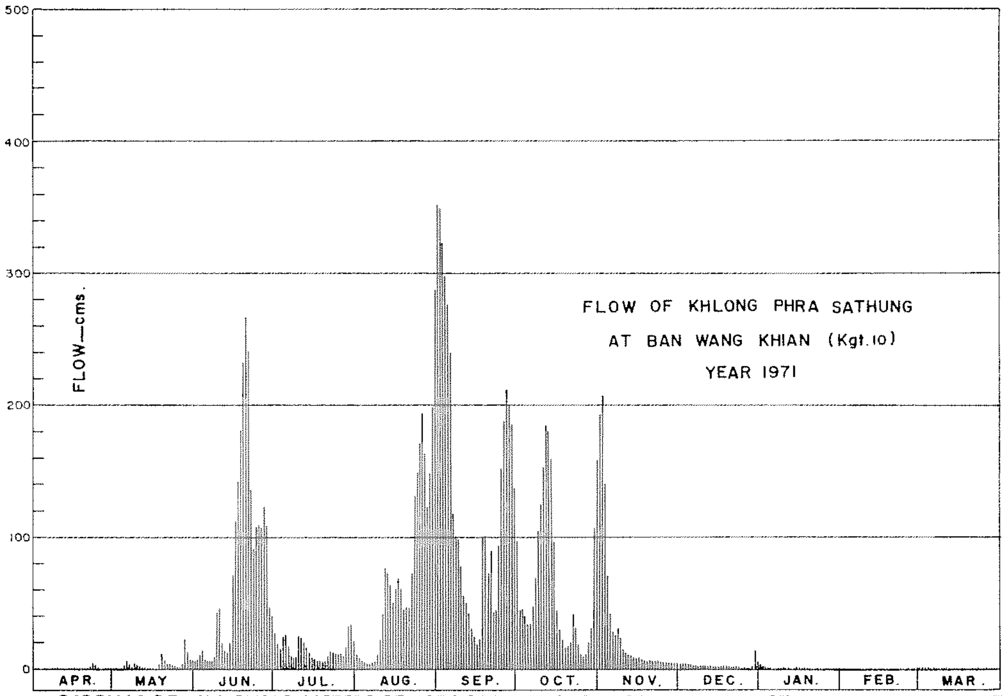
Overbank Flow Conditions: Overbank flow starts at elevation + 34.60 m. (M.S.L.)

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	24.79	24.88	25.73	27.31	26.30	35.16	29.61	33.93	25.57	25.41	24.93	24.85
2	.79	.83	26.21	26.89	.01	.15	28.52	34.16	.55	.28	.92	.84
3	.81	.81	.61	.52	25.94	34.99	.59	32.32	.54	.21	.91	.83
4	.80	.90	25.90	27.37	.73	.85	.16	29.38	.52	.17	.92	.81
5	.79	25.50	.76	.49	.58	.69	27.93	28.13	.51	.14	.91	.79
6	24.81	25.78	25.76	26.95	25.60	33.31	28.01	27.40	25.48	25.12	24.92	24.79
7	.78	.45	.82	.23	.66	31.35	29.01	.43	.46	.11	.91	.78
8	.75	.23	26.13	.17	.84	.33	30.31	.72	.44	.11	.91	.78
9	.74	.55	28.48	.21	26.37	.14	31.76	26.92	.42	.09	.89	.78
10	.73	.37	.70	27.40	27.37	29.65	32.54	.54	.40	.08	.90	.78
11	24.73	25.11	26.82	27.37	28.43	28.98	33.27	26.34	25.39	25.07	24.90	24.78
12	.73	.05	.50	.01	30.32	.89	.81	.24	.37	.07	.88	.77
13	.73	.01	.39	26.72	.16	.06	.57	.18	.35	.04	.90	.77
14	.74	.00	.85	.42	29.62	27.72	32.40	.10	.33	.01	.92	.77
15	.74	.02	29.63	.18	28.93	.27	29.88	.06	.33	.01	.90	.78
16	24.77	24.99	31.52	26.00	29.52	27.01	28.16	26.00	25.31	25.01	24.90	24.80
17	.79	25.20	32.76	25.85	.94	.38	27.42	25.95	.30	.00	.90	.82
18	.86	.51	33.86	.82	.53	31.35	.01	.91	.28	24.98	.89	.82
19	.81	26.41	34.54	.80	28.59	.39	26.77	.88	.29	.99	.89	.79
20	.78	25.77	.74	.78	.73	29.85	.83	.84	.28	.98	.89	.79
21	24.90	25.43	34.35	26.33	28.59	30.92	27.14	25.82	25.28	24.98	24.87	24.79
22	25.49	.55	31.25	.53	30.07	28.47	28.46	.79	.27	.97	.87	.79
23	.53	.38	30.88	.46	32.17	.72	27.35	.77	.24	.96	.86	.79
24	.24	.28	31.66	.36	.97	31.74	26.73	.75	.22	.96	.86	.77
25	.08	.17	.65	.37	33.48	33.34	.32	.73	.20	.95	.86	.78
26	24.98	25.09	31.56	26.42	33.95	33.99	26.09	25.70	25.19	24.95	24.89	24.78
27	.96	.59	32.18	.26	.31	34.23	.43	.68	.19	.95	.88	.82
28	25.00	27.20	31.58	.81	32.16	33.93	27.28	.65	.17	.94	.87	.24
29	24.96	26.58	28.79	27.84	33.00	.26	.97	.62	.29	.94	.86	.79
30	.92	25.79	.36	.93	34.14	32.47	31.57	.60	26.64	.94		.79
31	-	.84	-	26.96	.94	-	33.17	-	25.74	.93	-	.96
Mean	24.88	25.43	29.36	26.64	29.45	31.35	29.10	27.05	25.40	25.04	24.89	24.80
Max.	25.53	27.20	34.74	27.93	34.94	35.16	33.81	34.16	26.64	25.41	24.93	24.96
Min.	24.73	24.81	25.73	25.78	25.58	27.01	26.09	25.60	25.17	24.93	24.86	24.77

WATER YEAR 1971 : Max. 35.16 m. Min. 24.73 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.27	0.54	5.84	24	11	351	63	193	4.56	3.28	0.69	0.45
2	0.27	0.39	10	19	8.30	348	43	207	4.40	2.28	0.66	0.42
3	0.33	0.33	15	14	7.60	312	45	129	4.32	1.86	0.63	0.39
4	0.30	0.60	7.20	25	5.84	285	38	59	4.16	1.65	0.66	0.33
5	0.27	4.00	6.08	27	4.64	260	34	37	4.08	1.50	0.63	0.27
6	0.33	6.24	6.08	19	4.80	164	35	26	3.84	1.40	0.66	0.27
7	0.24	3.60	6.56	10	5.28	101	52	26	3.68	1.35	0.63	0.24
8	0.15	1.98	9.50	9.90	6.72	101	77	31	3.52	1.35	0.63	0.24
9	0.12	4.40	43	10	12	96	112	19	3.36	1.26	0.57	0.24
10	0.09	2.96	46	26	25	64	136	14	3.20	1.22	0.60	0.24
11	0.09	1.35	18	25	42	51	162	12	3.12	1.18	0.60	0.24
12	0.09	1.10	14	20	77	50	186	11	2.96	1.18	0.54	0.21
13	0.09	0.94	12	16	74	36	175	10	2.80	1.06	0.60	0.21
14	0.12	0.90	18	13	63	31	131	9.20	2.64	0.94	0.66	0.21
15	0.12	0.98	63	10	50	24	68	8.80	2.64	0.94	0.60	0.24
16	0.21	0.87	106	8.20	61	20	38	8.20	2.48	0.94	0.60	0.30
17	0.27	1.80	143	6.80	70	25	26	7.70	2.40	0.90	0.60	0.36
18	0.48	4.08	189	6.56	61	101	20	7.30	2.28	0.84	0.57	0.36
19	0.33	12	241	6.40	45	102	17	7.04	2.34	0.87	0.57	0.27
20	0.24	6.16	267	6.24	47	68	18	6.72	2.28	0.84	0.57	0.27
21	0.60	3.44	222	11	45	91	22	6.56	2.28	0.84	0.51	0.27
22	3.92	4.40	99	14	72	43	42	6.32	2.22	0.81	0.51	0.27
23	4.24	3.04	90	13	124	47	25	6.16	2.04	0.78	0.48	0.27
24	2.04	2.28	109	12	151	112	16	6.00	1.92	0.78	0.48	0.21
25	1.22	1.65	109	12	171	165	11	5.84	1.80	0.75	0.48	0.24
26	0.84	1.26	107	13	194	196	9.10	5.60	1.75	0.75	0.57	0.24
27	0.78	4.72	124	11	164	212	13	5.44	1.75	0.75	0.54	0.36
28	0.90	23	107	17	124	193	24	5.20	1.65	0.72	0.51	0.42
29	0.78	14	48	33	152	162	35	4.96	2.34	0.72	0.48	0.27
30	0.66	6.32	41	34	206	133	107	4.60	15	0.72	–	0.27
31	–	6.72	–	20	302	–	156	–	5.92	0.69	–	0.78
Total	20.39	126.05	2,282.26	492.10	2,386.18	3,944	1,938.10	885.84	103.73	35.15	16.83	9.36
Mean	0.680	4.07	76.1	15.9	77.0	131	62.5	29.5	3.35	1.13	0.580	0.302
Max.	4.24	23	267	34	302	351	186	207	15	3.28	0.69	0.78
Min.	0.09	0.33	5.84	6.24	4.64	20	9.10	4.80	1.65	0.69	0.48	0.21
Runoff – mcm.	1.762	10.891	197.187	42.519	206.166	340.762	167.452	76.536	8.962	3.037	1.454	0.809

WATER YEAR 1971 : Max. 351 Min. 0.09 Mean 33.4 Annual Runoff 1,057.535 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 1	24.00	35.19	358				

PRACHIN RIVER BASIN

Khlong Phra Phrong at Ban Kaeng, Prachin Buri (Kgt. 12)

Location: Lat. 13°-56'-02" N., Long. 101°-58'-41" E., on left bank near Ban Kaeng railway station about 200 meters upstream from Thot Saphon Sawmill, Amphoe Sa Kaeo, Prachin Buri.

Drainage Area: 1,540 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Near the gage site
Elevation: + 9.687 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

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

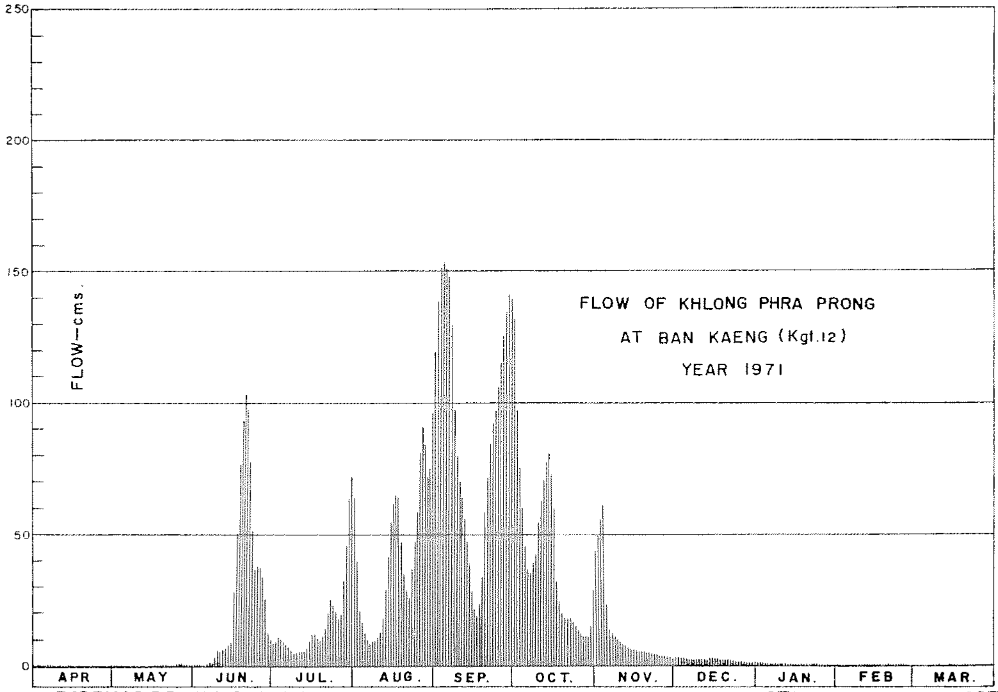
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.34	0.37	0.58	1.65	4.64	6.97	7.23	4.05	1.05	0.75	0.54	0.52
2	.34	.35	.56	.73	3.67	7.59	6.35	.30	.03	.75	.55	.50
3	.34	.34	.52	.86	2.71	.93	5.28	.64	.02	.73	.54	.48
4	.34	.34	.49	.80	.27	.98	4.47	3.92	.01	.72	.54	.46
5	.32	.32	.49	.68	1.98	.93	3.85	2.46	.01	.71	.53	.45
6	0.31	0.33	0.52	1.58	1.75	7.77	3.48	2.06	1.00	0.70	0.54	0.44
7	.31	.36	.79	.43	.67	.37	.42	1.95	.00	.70	.56	.44
8	.32	.36	.82	.32	.73	6.45	.62	.83	0.99	.69	.53	.43
9	.32	.36	1.05	.26	.82	5.56	.86	.74	.98	.69	.56	.43
10	.35	.40	.42	.25	.89	.09	4.45	.66	1.01	.67	.59	.42
11	0.33	0.41	1.35	1.27	2.04	4.78	4.87	1.60	1.00	0.67	0.59	0.42
12	.33	.44	.42	.31	.56	.46	5.20	.55	0.99	.66	.61	.42
13	.32	.48	.42	.36	3.32	4.00	.40	.50	.98	.64	.58	.41
14	.31	.46	.56	.56	4.03	3.14	.48	.46	1.03	.63	.57	.40
15	.30	.46	.73	.88	.60	2.91	4.99	.43	.04	.61	.55	.40
16	0.31	0.50	2.89	1.97	4.85	2.59	3.75	1.38	1.01	0.61	0.55	0.39
17	.30	.47	3.65	.98	.81	.51	.01	.34	0.99	.60	.55	.39
18	.31	.44	4.60	.83	.37	2.96	2.72	.29	.95	.59	.54	.40
19	.47	.54	5.52	.80	3.83	4.11	.51	.28	.95	.59	.53	.41
20	.49	.54	6.18	.97	.37	.93	.42	.27	.91	.59	.53	.42
21	0.48	0.52	6.33	2.25	3.04	5.36	2.39	1.25	0.89	0.59	0.52	0.40
22	.48	.50	5.93	.66	2.91	.82	.39	.23	.86	.58	.51	.40
23	.47	.55	4.50	.86	3.63	.97	.35	.21	.84	.58	.50	.42
24	.48	.70	3.51	.78	4.32	6.15	.18	.19	.82	.57	.49	.45
25	.48	.72	.59	.57	5.11	.51	.04	.16	.82	.57	.49	.43
26	0.39	0.75	3.54	2.45	5.73	6.86	1.96	1.13	0.81	0.57	0.57	0.45
27	.39	.69	.32	.57	.92	7.19	.90	.11	.81	.56	.63	.47
28	.39	.64	2.81	3.23	.67	.48	.89	.09	.79	.56	.61	.44
29	.39	.64	1.97	4.10	.16	.60	2.07	.07	.78	.57	.57	.43
30	.39	.62	.76	.90	.37	.54	.62	.06	.77	.56	-	.44
31	-	.58	-	5.13	6.12	-	3.60	-	.76	.54	-	.44
Mean	0.37	0.49	2.49	2.19	3.71	5.78	3.64	1.81	0.93	0.63	0.55	0.43
Max.	0.49	0.75	6.33	5.13	6.12	7.98	7.23	4.64	1.05	0.75	0.63	0.52
Min.	0.30	0.32	0.49	1.25	1.67	2.51	1.89	1.06	0.76	0.54	0.49	0.39

WATER YEAR 1971 : Max. 7.98 m. Min. 0.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.08	0.14	0.56	8.50	61	122	130	48	3.20	1.30	0.48	0.44
2	0.08	0.10	0.52	9.36	40	141	103	53	3.04	1.30	0.50	0.40
3	0.06	0.08	0.44	11	22	151	75	61	2.96	1.18	0.48	0.36
4	0.08	0.08	0.38	10	16	153	57	45	2.88	1.12	0.48	0.32
5	0.04	0.04	0.38	8.80	12	151	44	18	2.88	1.06	0.46	0.30
6	0.02	0.06	0.44	7.80	9.60	146	36	13	2.88	1.00	0.48	0.28
7	0.02	0.12	1.54	6.37	8.70	134	35	12	2.80	1.00	0.52	0.28
8	0.08	0.12	1.72	6.38	9.36	106	39	10	2.74	0.96	0.46	0.26
9	0.08	0.12	3.20	4.88	10	82	44	9.48	2.68	0.96	0.52	0.26
10	0.10	0.20	6.28	4.80	11	71	56	8.60	2.88	0.88	0.58	0.24
11	0.06	0.22	5.65	4.96	13	64	66	8.00	2.80	0.88	0.58	0.24
12	0.06	0.28	6.28	5.29	20	57	73	7.50	2.74	0.84	0.64	0.24
13	0.04	0.36	6.55	5.78	33	47	78	7.00	2.68	0.76	0.56	0.22
14	0.02	0.32	7.60	7.60	47	35	80	6.64	3.04	0.72	0.54	0.20
15	0.00	0.32	9.36	11	60	26	68	6.37	3.12	0.64	0.50	0.20
16	0.02	0.40	25	12	65	20	51	5.92	2.88	0.64	0.50	0.18
17	0.00	0.34	40	12	64	19	27	5.56	2.74	0.60	0.50	0.18
18	0.02	0.28	60	10	54	26	23	5.12	2.50	0.58	0.48	0.20
19	0.34	0.48	81	10	43	49	19	5.04	2.50	0.58	0.46	0.22
20	0.38	0.48	99	12	34	68	18	4.96	2.26	0.58	0.46	0.24
21	0.36	0.44	103	16	28	77	18	4.80	2.14	0.58	0.44	0.20
22	0.36	0.40	92	22	26	89	18	4.60	1.96	0.56	0.42	0.20
23	0.34	0.50	57	25	39	93	17	4.48	1.84	0.56	0.40	0.24
24	0.36	1.00	37	23	54*	98	15	4.32	1.72	0.54	0.38	0.30
25	0.36	1.12	38	20	71	108	13	4.08	1.72	0.54	0.38	0.26
26	0.18	1.30	57	18	86	118	12	3.84	1.66	0.54	0.54	0.30
27	0.18	0.96	33	20	91	128	11	3.68	1.66	0.52	0.72	0.34
28	0.18	0.76	24	31	85	137	11	3.52	1.54	0.52	0.64	0.28
29	0.18	0.76	12	49	72	141	13	3.36	1.48	0.54	0.54	0.26
30	0.18	0.68	9.72	66	77	139	21	3.28	1.42	0.52	–	0.28
31	–	0.56	–	72	97	–	39	–	1.36	0.48	–	0.28
Total	4.62	13.02	798.62	529.48	1,358.66	2,796	1,310	380.19	74.62	23.48	14.64	8.20
Mean	0.15	0.42	26.6	17.1	43.8	93.2	42.2	12.7	2.41	0.76	0.50	0.26
Max.	0.38	1.30	103	72	97	153	130	61	3.20	1.30	0.72	0.44
Min.	0.00	0.04	0.38	4.80	8.70	19	11	3.28	1.36	0.48	0.38	0.18
Runoff – mcm.	0.400	1.125	69.001	45.747	117.388	241.574	113.184	32.848	6.447	2.029	1.565	0.708

WATER YEAR 1971 : Max. 153 Min. 0.00 Mean 20.1 Annual Runoff 631.889 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 4	10.00	7.98	153				

Khlong Phra Prong at Highway Bridge, Prachin Buri (Kgt. 13)

Location: Lat. 13°-58'-57" N., Long. 101°-42'-46" E., on left bank about 40 meters upstream from the highway bridge at Ban Wang Leng, Amphoe KabinBuri, Prachin Buri.

Drainage Area: 5,347 sq.km.

Type of Gage: Staff-gage

Zero Gage at Bottom at: + 0.00 m. (A.D.) which is equal to + 0.155m. (M.S.L.)

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

Location: on left bank near the gage site.
Elevation: + 10.712 m. (M.S.L.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-68, 1971 to date.
Rated by Float: -
Rated by Current Meter: 1967-68, 1971 to date.

Stability of Channel Regimes: Fairly stable by backwater effect, no shifting adjustment for flow computation.

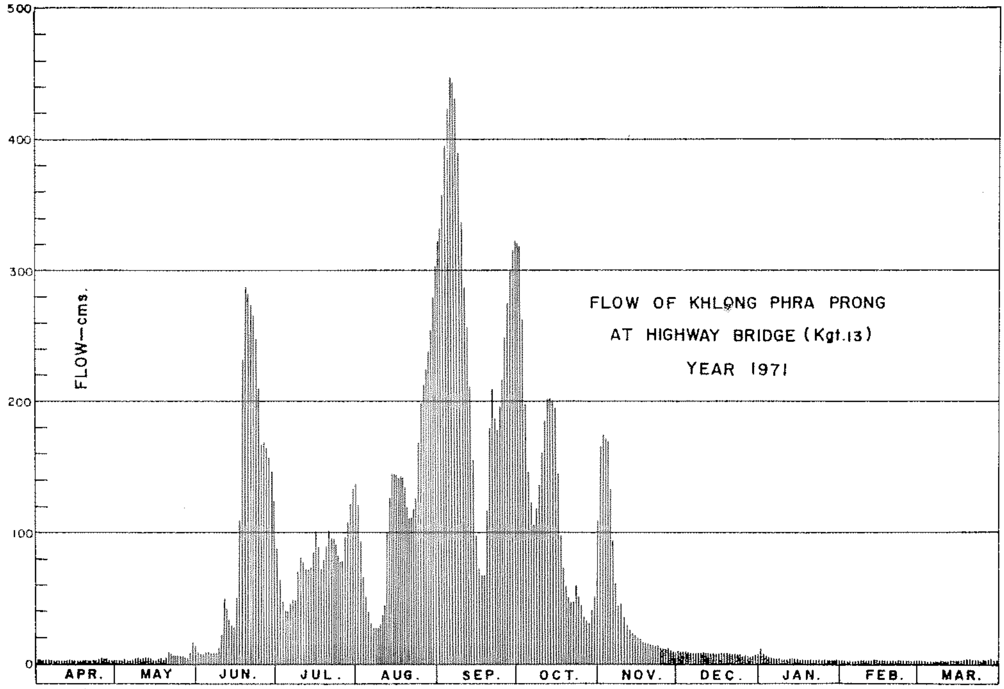
Overbank Flow Conditions: Including overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.12	1.18	1.77	4.81	5.94	9.59	9.41	6.86	1.91	2.06	1.21	1.16
2	.10	.17	.76	.20	.31	.85	.08	7.08	.87	1.70	.19	.14
3	.09	.15	.74	3.67	4.37	10.20	8.24	.02	.86	.56	.19	.14
4	.08	.13	.95	.44	3.72	.34	7.29	6.98	.84	.49	.19	.13
5	.07	.10	.82	.52	.28	.37	6.46	5.87	.82	.45	.19	.12
6	1.09	1.09	1.72	3.81	3.06	10.32	5.85	4.59	1.82	1.44	1.18	1.11
7	.08	.18	.78	.72	2.89	.21	.52	3.90	.81	.40	.18	.09
8	.07	.44	.92	.78	.90	9.97	.84	.63	.79	.38	.18	.09
9	.06	.43	2.10	4.46	.91	.59	6.17	.69	.78	.37	.18	.09
10	.09	.31	.78	.85	3.26	.20	.66	.34	.79	.36	.18	.09
11	1.09	1.37	3.81	4.74	3.59	8.54	7.52	3.08	1.79	1.34	1.18	1.08
12	.11	.41	.56	.49	5.32	7.79	.62	2.91	.78	.33	.18	.08
13	.10	.30	.15	.60	6.18	.15	.60	.80	.77	.33	.19	.08
14	.08	.27	.00	.65	.49	6.16	.57	.71	.76	.31	.19	.07
15	.07	.22	.04	5.21	.47	5.29	.42	.63	.80	.30	.18	.07
16	1.05	1.23	4.19	5.40	6.41	4.71	6.54	2.53	1.80	1.29	1.18	1.07
17	.05	.26	6.52	4.91	.44	.42	5.29	.44	.80	.29	.18	.07
18	.05	.21	8.51	.53	.43	.43	4.49	.38	.84	.28	.18	.07
19	.04	.21	.99	.88	.12	5.84	.05	.32	.77	.28	.18	.16
20	.09	.54	.89	5.15	5.66	7.27	3.82	.30	.72	.26	.17	.16
21	1.19	1.86	8.70	5.43	5.68	7.75	3.75	2.23	1.70	1.26	1.16	1.13
22	.15	.71	.59	.28	.82	.32	.73	.19	.66	.26	.15	.10
23	.16	.53	.31	.26	6.06	.15	4.14	.15	.65	.26	.15	.07
24	.32	.48	7.43	.04	.89	.62	3.93	.10	.63	.25	.14	.07
25	.47	.49	6.93	4.77	7.54	.99	.55	.08	.60	.24	.13	.06
26	1.40	1.47	6.96	4.71	7.74	8.46	3.32	2.06	1.57	1.24	1.13	1.08
27	.28	.42	.81	5.30	8.00	.93	.17	.02	.54	.24	.13	.07
28	.23	.35	.70	.53	.40	9.23	.14	1.98	.52	.22	.15	.07
29	.19	.75	.41	.89	.67	.39	.56	.95	.50	.21	.17	.10
30	.17	2.33	5.42	6.18	9.11	.44	4.11	.92	.49	.21	-	.09
31	-	.05	-	.33	.49	-	5.81	-	.72	.21	-	.09
Mean	1.14	1.41	4.84	4.79	5.81	8.15	5.63	3.32	1.73	1.35	1.17	1.10
Max.	1.47	2.33	8.99	6.33	9.49	10.37	9.41	7.08	1.91	2.06	1.21	1.16
Min.	1.04	1.09	1.72	3.44	2.89	4.42	3.14	1.92	1.49	1.21	1.13	1.06

WATER YEAR 1971 : Max. 10.37 m. Min. 1.04 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.64	3.06	8.20	80	123	337	319	163	9.65	12	3.28	2.92
2	2.50	2.99	8.10	61	97	367	294	174	9.20	7.50	3.13	2.78
3	2.47	2.85	7.90	46	66	418	239	171	9.10	6.14	3.13	2.78
4	2.36	2.71	10.25	40	47	440	165	169	8.90	5.52	3.13	2.71
5	2.29	2.50	8.70	42	36	447	144	120	8.70	5.20	3.13	2.64
6	2.47	2.47	7.70	50	30	438	119	73	8.70	5.12	3.06	2.57
7	2.36	3.06	8.30	47	27	420	106	52	8.60	4.80	3.06	2.47
8	2.29	5.12	9.80	49	27	384	119	45	8.40	4.64	3.06	2.47
9	2.22	5.04	12	67	27	337	132	46	8.30	4.56	3.06	2.47
10	2.47	4.08	24	81	35	302	153	37	8.40	4.48	3.06	2.47
11	2.47	3.56	50	77	44	258	197	31	8.40	4.32	3.06	2.36
12	2.57	4.88	43	70	98	212	203	27	8.30	4.24	3.06	2.36
13	2.50	4.00	32	73	132	178	201	25	8.20	4.24	3.13	2.36
14	2.36	3.76	29	75	145	131	200	23	8.10	4.08	3.13	2.29
15	2.29	3.36	30	93	144	97	192	21	8.50	4.00	3.06	2.29
16	2.15	3.44	61	101	141	77	147	19	8.50	3.92	3.06	2.29
17	2.15	3.68	146	83	143	68	97	18	8.50	3.92	3.06	2.29
18	2.15	3.28	256	71	142	68	70	17	8.90	3.84	3.06	2.29
19	2.08	3.28	287	82	130	119	57	16	8.20	3.84	3.06	2.92
20	2.47	5.96	280	91	111	184	50	15	7.70	3.68	2.99	2.92
21	3.13	9.10	268	102	112	210	48	14	7.50	3.68	2.92	2.71
22	2.85	7.60	261	96	118	186	47	14	7.10	3.68	2.85	2.50
23	2.92	5.87	244	95	127	178	59	13	7.00	3.68	2.85	2.29
24	4.16	5.44	192	87	165	203	53	12	6.80	3.60	2.78	2.29
25	5.36	5.52	167	78	198	224	42	12	6.50	3.52	2.71	2.22
26	4.80	5.36	168	77	209	253	37	12	6.23	3.52	2.71	2.36
27	3.84	4.96	161	97	225	284	33	11	5.96	3.52	2.71	2.29
28	3.44	4.40	155	121	249	305	32	11	5.78	3.36	2.85	2.29
29	3.13	8.00	141	132	266	317	43	10	5.60	3.28	2.99	2.50
30	2.99	16	102	138	296	322	59	9.80	5.52	3.28	–	2.47
31	–	12	–	–	327	–	117	–	7.70	3.28	–	2.47
Total	83.88	158.33	3,177.95	2,510	4,037	7,764	3,794	1,380.80	242.94	138.44	87.14	77.04
Mean	2.80	5.11	106	81.0	130	259	122	46.0	7.84	4.46	3.00	2.48
Max.	5.36	16	287	138	327	447	319	174	9.65	12	3.28	2.92
Min.	2.08	2.47	7.70	40	27	68	32	9.80	5.52	3.28	2.71	2.22
Runoff - mcm.	7.247	13.680	274.575	216.864	348.797	670.810	327.802	119.301	20.990	11.961	7.529	6.656

WATER YEAR 1971 : Max. 447 Min. 2.08 Mean 64.1 Annual Runoff 2,026.211 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.5	9.00	10.38	449				

PRACHIN RIVER BASIN

Huai Yang at Ban Thung Faek, Prachin Buri (Kgt. 14)

Location: Lat. 14°-09'-30" N., Long. 101°-52'-52" E., on left bank at Ban Thung Faek 2 kilometers on left side of Kabin Buri - Nakhon Ratchasima highway, Amphoe Kabin Buri, Prachin Buri.

Drainage Area: 366 sq.km.

Type of Gage: Water-Stage recorder.

Zero Gage at Bottom at: + 34.61 m. (M.S.L.)

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

Location: Near the gage site
Elevation: + 44.428 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: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

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

Overbank Flow Conditions: No overbank flow.

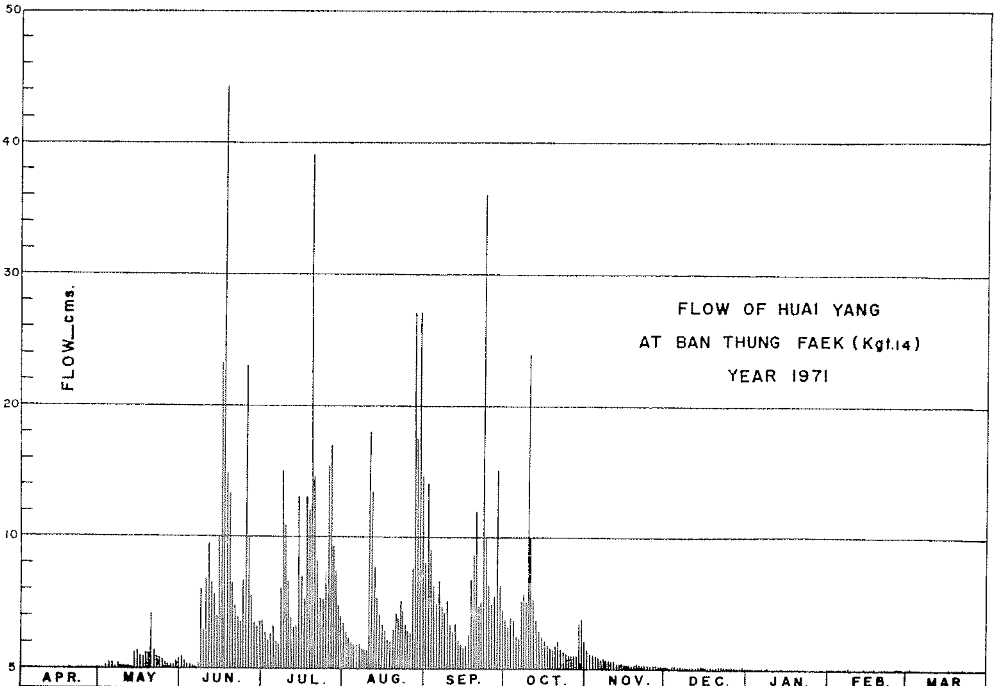
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.61	34.80	35.07	35.42	35.38	35.76	35.42	35.17	34.89	34.82	34.76	34.74
2	.60	.85	34.99	.33	.31	36.09	.37	.13	.89	.82	.76	.74
3	.59	.85	.93	.26	.27	35.74	.44	.12	.90	.81	.76	.73
4	.58	.97	.91	.30	.23	.62	.41	.10	.90	.81	.75	.73
5	.57	.97	.88	.37	.24	.54	.31	.08	.90	.81	.83	.73
6	34.57	34.90	34.87	35.27	35.22	35.67	35.28	35.07	34.89	34.81	34.83	34.73
7	.58	.89	.97	.20	.23	.53	.55	.05	.88	.81	.80	.73
8	.60	.95	35.62	.41	.20	.47	.60	.05	.87	.80	.77	.72
9	.60	.88	.32	36.14	.17	.55	.54	.03	.87	.80	.77	.72
10	.62	.85	.77	35.90	.18	.40	36.44	.02	.86	.79	.76	.72
11	34.63	34.84	35.85	35.59	36.23	35.33	35.69	35.01	34.85	34.79	34.75	34.71
12	.63	.85	.64	.42	.05	.38	.50	34.99	.84	.79	.75	.71
13	.63	.84	.60	.36	35.64	.29	.40	.99	.86	.79	.75	.70
14	.63	35.12	.41	.39	.51	.24	.32	.97	.85	.79	.74	.70
15	.62	.18	.94	36.04	.43	.21	.28	.96	.84	.78	.74	.70
16	34.63	35.08	36.52	35.68	35.36	35.24	35.26	34.93	34.83	34.78	34.74	34.70
17	.68	.07	.99	.51	.30	.32	.23	.92	.84	.78	.74	.69
18	.79	.14	.09	36.04	.25	.67	.21	.92	.84	.78	.74	.69
19	.81	.15	.02	.00	.28	.83	.20	.94	.83	.77	.74	.67
20	.80	.47	35.55	.87	.39	.97	.24	.93	.83	.77	.74	.66
21	34.78	35.21	35.53	36.09	35.47	35.52	35.26	34.92	34.83	34.77	34.79	34.65
22	.77	.13	.45	35.74	.41	.55	.19	.92	.82	.77	.76	.64
23	.80	.08	.40	.58	.55	36.81	.17	.92	.82	.76	.76	.63
24	.81	.05	.70	.57	.40	35.83	.14	.91	.82	.76	.74	.62
25	.79	.00	36.42	.56	.34	.62	.12	.91	.82	.76	.74	.67
26	34.77	34.97	35.91	36.12	35.29	35.53	35.11	34.91	34.83	34.76	34.75	34.68
27	.75	.93	.59	.21	.68	.58	.11	.91	.83	.76	.76	.69
28	.73	.91	.42	35.88	36.54	36.12	.11	.91	.83	.76	.75	.69
29	.72	.99	.36	.71	.22	35.68	.39	.91	.82	.76	.75	.70
30	.74	35.02	.41	.54	.56	35.51	.42	.90	.82	.76	-	.70
31	-	.05	-	.43	.11	-	.25	-	.82	.76	-	.71
Mean	34.68	34.88	35.64	35.67	35.53	35.62	35.35	34.98	34.85	34.78	34.76	34.70
Max.	34.81	35.47	36.99	36.87	36.56	36.81	36.44	35.17	34.90	34.82	34.83	34.74
Min.	34.57	34.80	34.87	35.20	35.17	35.21	35.11	34.90	34.82	34.76	34.74	34.62

WATER YEAR 1971 : Max. 36.99 m. Min. 34.57 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.10	0.85	3.70	3.30	7.90	3.70	1.35	0.19	0.12	0.06	0.04
2		0.15	0.47	2.80	2.60	14	3.20	1.15	0.19	0.12	0.06	0.04
3		0.15	0.29	2.10	2.20	7.60	3.90	1.10	0.20	0.11	0.06	0.03
4		0.41	0.23	2.50	1.80	5.96	3.60	1.00	0.20	0.11	0.05	0.03
5		0.41	0.18	3.20	1.90	4.98	2.60	0.90	0.20	0.11	0.13	0.03
6		0.20	0.17	2.20	1.70	6.61	2.30	0.85	0.19	0.11	0.13	0.03
7		0.19	0.41	1.50	1.80	4.86	5.10	0.75	0.18	0.11	0.10	0.03
8		0.35	5.96	3.60	1.50	4.20	5.70	0.75	0.17	0.10	0.07	0.02
9		0.18	2.70	15	1.35	5.10	4.98	0.65	0.17	0.10	0.07	0.02
10		0.15	7.05	10	1.40	3.50	24	0.60	0.16	0.09	0.06	0.02
11		0.14	9.50	5.58	18	2.80	6.87	0.55	0.15	0.09	0.05	0.01
12		0.15	6.22	3.70	13	3.30	4.50	0.47	0.14	0.09	0.05	0.01
13		0.14	5.70	3.10	6.22	2.40	3.50	0.47	0.16	0.09	0.05	0.00
14		1.10	3.60	3.40	4.62	1.90	2.70	0.41	0.15	0.09	0.04	
15		1.40	11	13	3.80	1.60	2.30	0.38	0.14	0.08	0.04	
16		0.90	26	6.74	3.10	1.90	2.10	0.28	0.13	0.08	0.04	
17	0.00	0.85	44	4.62	2.50	2.70	1.80	0.26	0.14	0.08	0.04	
18	0.09	1.20	14	13	2.00	6.61	1.60	0.26	0.14	0.08	0.04	
19	0.11	1.25	13	12	2.30	9.10	1.50	0.32	0.13	0.07	0.04	
20	0.10	4.20	5.10	39	3.40	12	1.90	0.29	0.13	0.07	0.04	
21	0.08	1.60	4.86	14	4.20	4.74	2.10	0.26	0.13	0.07	0.09	
22	0.07	1.15	4.00	7.60	3.60	5.10	1.45	0.26	0.12	0.07	0.06	
23	0.10	0.90	3.50	5.46	5.10	36	1.35	0.26	0.12	0.06	0.06	
24	0.11	0.75	7.00	5.34	3.50	9.10	1.20	0.23	0.12	0.06	0.05	
25	0.09	0.50	23	5.22	2.90	5.96	1.10	0.23	0.12	0.06	0.04	
26	0.07	0.41	11	15	2.40	4.86	1.05	0.23	0.13	0.06	0.05	
27	0.05	0.29	5.58	17	6.74	5.46	1.05	0.23	0.13	0.06	0.06	
28	0.03	0.23	3.70	10	27	15	1.05	0.23	0.12	0.06	0.05	
29	0.02	0.47	3.10	7.15	17	6.74	3.40	0.23	0.12	0.06	0.05	
30	0.04	0.60	3.60	4.98	27	4.62	3.70	0.20	0.12	0.06	-	0.00
31	-	0.75	-	3.80	15	-	2.00	-	0.12	0.06	-	0.01
Total	0.96	21.27	225.77	246.29	192.93	206.60	107.30	15.16	4.61	2.58	1.72	0.32
Mean	0.032	0.68	7.52	7.94	6.22	6.88	3.46	0.50	0.14	0.083	0.059	0.010
Max.	0.11	4.20	44	39	27	36	24	1.35	0.20	0.12	0.13	0.04
Min.	0.00	0.10	0.17	1.50	1.35	1.60	1.05	0.20	0.12	0.06	0.04	0.00
Runoff - mcm.	0.082	1.837	19.506	21.279	16.669	17.850	9.271	1.310	0.398	0.223	0.149	0.028

WATER YEAR 1971 : Max. 44 Min. 0.00 Mean 2.80 Annual Runoff 88.604 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 17	15.00	37.31	57				

Huai Samong at Highway Bridge, Prachin Buri (Kgt.15)

Location: Lat. 14°-02'-37" N., Long. 101°-47'-30" E., on left bank about 5 kilometers upstream from confluence with Lam Hanuman on Kabin Buri, Nakhon Ratchasima highway. 8 kilometers from crossing with Suwansan road, Amphoe Kabin Buri, Prachin Buri.

Drainage Area: 789 sq.km.

Type of Gage: Staff gage

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

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

Location: on left bank near gage site.
Elevation: + 6.248 m. (A.D.)

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

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

Period of Available Gage Records: 1966-1974

Rating Operation:

Period of Rating: 1966-1967
Rated by Float: -
Rated by Current Meter: 1966-1967

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

Overbank Flow Conditions: No overbank flow.

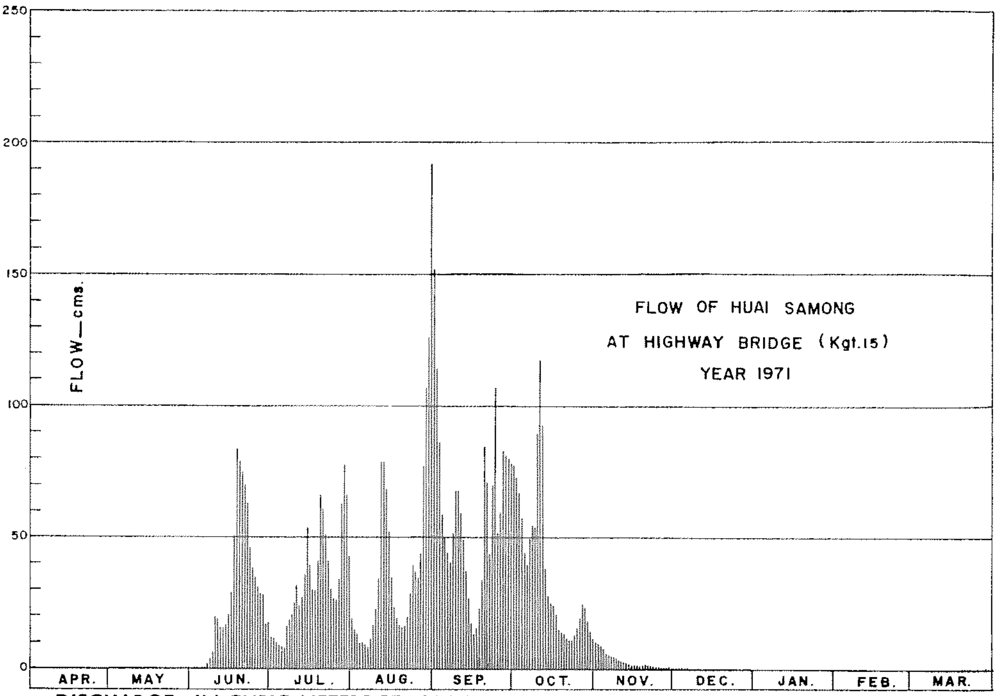
General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1967. No State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.19	0.23	0.38	1.08	1.35	3.63	2.65	1.03	0.42	0.28	0.18	0.18
2	.19	.23	.38	.08	.21	.19	.59	.00	.42	.28	0.18	0.18
3	.19	.24	.41	.02	.13	2.63	.45	0.95	.41	.27	0.18	0.18
4	.19	.24	.47	0.98	.03	.32	.28	.90	.41	.27	0.18	0.18
5	.19	.25	.50	.96	.00	.12	1.99	.83	.41	.26	0.18	0.18
6	0.19	0.26	0.55	0.92	0.98	1.98	1.87	0.80	0.40	0.26	0.17	0.18
7	.19	.28	.63	1.27	.95	.91	2.14	.78	.40	.25	0.17	0.18
8	.19	.26	.78	.33	1.13	2.19	.21	.75	.39	.25	0.17	0.18
9	.19	.32	.95	.39	.37	.49	.22	.72	.39	.24	0.17	0.18
10	.19	.36	1.36	.60	.53	.50	3.10	.68	.39	.24	0.17	0.19
11	0.20	0.37	1.35	1.70	1.84	2.30	3.30	0.66	0.38	0.23	0.18	0.19
12	.20	.38	.24	.50	2.69	.08	2.65	.63	.38	.23	0.18	0.20
13	.20	.39	.24	.59	.69	1.87	1.84	.62	.36	.23	0.19	0.20
14	.20	.39	.32	.84	.39	.57	.58	.60	.36	.22	0.19	0.21
15	.22	.37	.44	2.22	.17	.21	.53	.58	.35	.22	0.19	0.21
16	0.22	0.35	1.68	1.83	1.83	1.14	1.49	0.56	0.35	0.22	0.20	0.22
17	.24	.37	2.20	.65	.48	.23	.37	.55	.34	.22	0.20	0.22
18	.24	.39	.78	.69	.36	.48	.20	.55	.34	.21	0.20	0.23
19	.26	.41	.69	.99	.29	.85	.16	.54	.34	[illegible]	0.20	0.30
20	.26	.42	.63	2.45	.24	2.79	.12	.54	.33	.21	0.20	0.31
21	0.24	0.39	2.53	2.32	1.27	2.53	1.10	0.52	0.33	0.21	0.20	0.32
22	.24	.36	.36	.13	.40	1.94	.07	.51	.33	.20	0.19	0.32
23	.25	.33	.00	1.88	.69	2.54	.05	.50	.32	.20	0.19	0.31
24	.25	.34	1.89	.68	.90	3.14	.12	.49	.32	.20	0.19	0.31
25	.26	.35	.78	.57	.85	2.17	.24	.48	.32	.20	0.19	0.30
26	0.26	0.36	1.70	1.57	1.78	2.35	1.38	0.47	0.31	0.19	0.18	0.30
27	.27	.33	.62	.81	.99	.75	.52	.46	.31	.19	0.18	0.29
28	.27	.30	.45	2.45	2.77	.73	.45	.45	.31	.19	0.18	0.29
29	.26	.32	.27	.67	3.21	.70	.34	.44	.30	.19	0.18	0.29
30	.26	.33	.30	.27	.48	.68	.22	.43	.30	.18	-	0.28
31	-	.35	-	1.77	4.33	-	.11	-	.30	.18	-	0.28
Mean	0.22	0.33	1.43	1.68	1.82	2.27	1.75	0.63	0.35	0.22	0.18	0.24
Max.	0.27	0.42	2.78	2.67	4.33	3.63	3.30	1.03	0.42	0.28	0.20	0.32
Min.	0.19	0.23	0.38	0.92	0.95	1.14	1.05	0.43	0.30	0.18	0.17	0.18

WATER YEAR 1971 : Max. 4.33 m. Min. 0.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.00	0.24	12	19	140	77	10	0.44			
2		0.00	0.24	12	15	110	73	10	0.44			
3		0.00	0.37	10	13	76	66	8.40	0.37			
4		0.00	0.79	9.12	10	59	57	7.20	0.37			
5		0.00	1.00	8.64	9.60	50	44	5.80	0.37			
6		0.00	1.60	7.68	9.12	43	39	5.20	0.30			
7		0.00	2.62	17	8.40	40	50	4.88	0.30			
8		0.00	4.88	19	13	53	54	4.40	0.27			
9		0.06	8.40	21	20	68	54	3.92	0.27			
10		0.18	20	28	25	68	104	3.32	0.27			
11		0.21	19	32	37	58	117	3.04	0.24			
12		0.24	16	24	79	48	77	2.62	0.24			
13		0.27	16	28	79	39	37	2.48	0.18			
14		0.27	18	37	63	27	27	2.20	0.18			
15		0.27	22	54	52	15	25	1.96	0.15			
16		0.15	31	37	37	13	24	1.72	0.15			
17		0.21	53	30	24	16	20	1.60	0.12			
18		0.27	84	31	20	24	15	1.60	0.12			
19		0.37	79	44	17	34	14	1.48	0.12			
20		0.44	76	66	16	85	13	1.48	0.09			0.03
21		0.27	70	59	17	70	12	1.24	0.09			0.06
22		0.18	61	50	21	42	11	1.12	0.09			0.06
23		0.09	44	39	31	71	11	1.00	0.06			0.06
24		0.12	39	31	40	107	13	0.93	0.06			0.03
25		0.15	35	27	38	52	16	0.86	0.06			0.00
26		0.18	32	27	35	61	20	0.79	0.03			0.00
27		0.09	29	36	44	83	25	0.72	0.03			0.00
28		0.00	23	66	84	81	23	0.65	0.03			0.00
29		0.06	17	78	111	80	19	0.58	0.00			0.00
30		0.09	18	57	129	78	15	0.51	0.00			0.00
31		0.15	–	35	192	–	12	–	0.00			0.00
Total	0.00	4.26	822.14	1,032.44	1,308.12	1,795	1,164	91.70	5.44	0.00	0.00	0.21
Mean	0.00	0.14	27.4	33.3	42.2	59.8	37.5	3.06	0.17	0.00	0.00	0.006
Max.	0.00	0.44	84	78	192	140	117	10	0.44	0.00	0.00	0.06
Min.	0.00	0.00	0.24	7.68	8.40	13	11	0.51	0.00	0.00	0.00	0.00
Runoff - mcm.	0.000	0.368	71.033	89.203	113.021	155.088	100.570	7.923	0.470	0.000	0.000	0.018

WATER YEAR 1971 : Max. 192 Min. 0.00 Mean 17.0 Annual Runoff 537.694 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.31	18.00	4.40	198				

Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt. 15A)

Location: Lat. 14°-03'-46" N., Long. 101°-55'-39" E., on right bank at Ban Kaeng DinSo upstream from the Kgt.15 station about 15 kilometers, Amphoe Kabin Buri, Prachin Buri.

Drainage Area: 530 sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: Infront of Kgt. 15A station office near the rain gage.
Elevation: + 9.615 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1968 to date

Rating Operation:

Period of Rating: 1968 to date
Rated by Float: -
Rated by Current Meter: 1968 to date

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

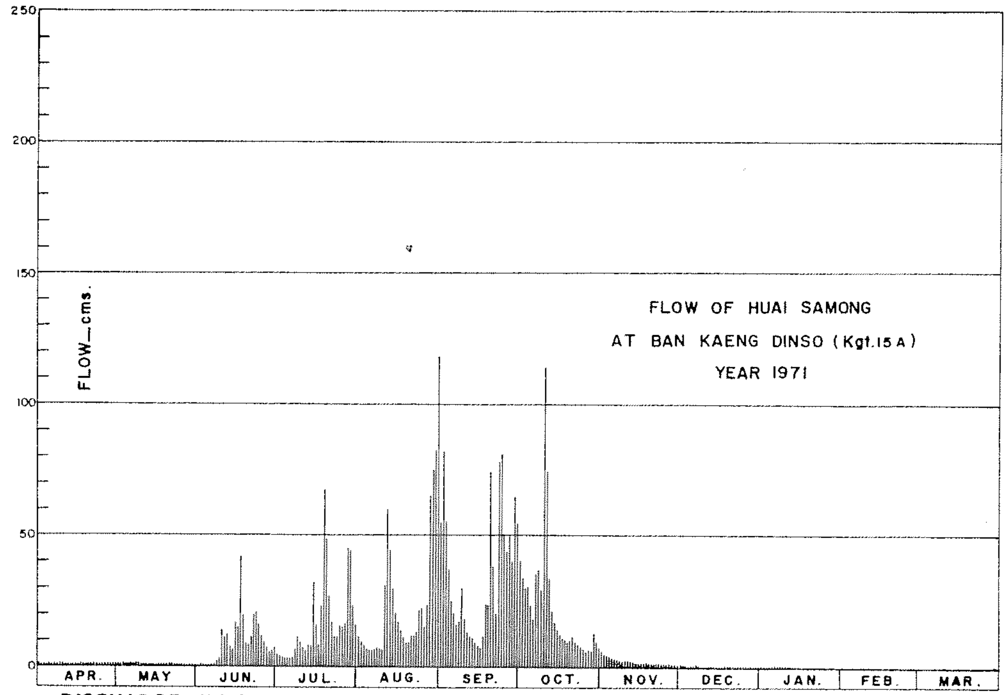
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.50	0.54	0.63	1.20	1.54	2.78	2.51	1.27	0.83	0.67	0.57	0.53
2	.50	.52	.72	.17	.45	3.50	.40	.22	.82	.66	.57	.52
3	.50	.50	.69	.15	.37	2.78	.26	.20	.82	.66	.57	.52
4	.47	.50	.65	.12	.31	.53	.30	.18	.81	.65	.58	.52
5	.48	.50	.62	.15	.34	.12	1.95	.15	.81	.65	.65	.52
6	0.48	0.50	0.63	1.09	1.29	1.93	1.88	1.13	0.82	0.65	0.63	0.50
7	.48	.53	.67	.10	.34	.80	2.42	.11	.93	.64	.63	.50
8	.52	.71	1.00	.26	.36	.87	.47	.10	.83	.64	.62	.49
9	.56	.68	.08	.56	.32	2.26	.13	.08	.80	.64	.62	.49
10	.56	.62	.69	.47	.31	1.80	4.14	.06	.79	.65	.61	.49
11	0.54	0.54	1.55	1.32	2.33	1.64	3.51	1.05	0.78	0.63	0.60	0.49
12	.54	.54	.58	.26	3.04	.61	2.31	.03	.77	.63	.60	.49
13	.54	.56	.32	.44	2.61	.53	.01	.01	.75	.62	.60	.49
14	.54	.57	.27	.38	.16	.45	1.82	1.00	.74	.61	.59	.50
15	.54	.59	.82	2.32	1.90	.40	.70	0.98	.74	.61	.58	.50
16	0.54	0.64	1.69	1.70	1.80	1.38	1.62	0.95	0.74	0.60	0.57	0.49
17	.55	.56	2.60	.39	.67	.54	.55	.94	.73	.60	.57	.48
18	.56	.57	1.87	2.02	.54	2.01	.50	.94	.73	.60	.57	.49
19	.56	.75	.48	3.20	.47	.08	.49	.93	.73	.60	.57	.50
20	.55	.62	.33	2.54	.50	3.35	.53	.92	.72	.60	.56	.48
21	0.55	0.58	1.60	2.04	1.61	2.24	1.58	0.92	0.72	0.59	0.56	0.48
22	.55	.55	.93	1.77	.59	1.76	.44	.90	.71	.59	.56	.48
23	.55	.54	.96	.56	.61	3.43	.39	.88	.70	.58	.56	.49
24	.56	.59	.77	.62	2.01	.47	.35	.87	.69	.58	.56	.48
25	.56	.55	.56	.78	.05	2.76	.31	.87	.69	.58	.56	.47
26	0.55	0.53	1.46	1.74	1.72	2.62	1.28	0.86	0.69	0.58	0.56	0.49
27	.55	.58	.33	.81	2.21	.81	.32	.85	.69	.58	.56	.48
28	.55	.58	.23	2.67	3.19	.53	.30	.85	.69	.58	.55	.48
29	.54	.61	.25	.66	.45	3.14	.63	.85	.68	.58	.54	.49
30	.54	.62	.34	1.92	.55	2.89	.47	.83	.68	.57	-	.50
31	-	.57	-	.67	4.22	-	.35	-	.67	.57	-	.51
Mean	0.53	0.57	1.50	1.68	1.96	2.30	1.90	1.00	0.75	0.59	0.58	0.50
Max.	0.56	0.75	2.60	3.20	4.22	3.50	4.14	1.27	0.93	0.67	0.65	0.53
Min.	0.47	0.50	0.62	1.09	1.29	1.38	1.28	0.83	0.67	0.57	0.54	0.47

WATER YEAR 1971 : Max. 4.22 m. Min. 0.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.040	0.064	0.16	4.60	11	49	39	5.79	0.75	0.24	0.082	0.058
2	0.040	0.052	0.36	4.18	9.00	82	35	4.94	0.70	0.22	0.082	0.052
3	0.040	0.040	0.28	3.90	7.49	49	30	4.60	0.70	0.22	0.082	0.052
4	0.028	0.040	0.20	3.48	6.47	39	31	4.32	0.65	0.20	0.088	0.046
5	0.032	0.040	0.14	3.90	6.98	26	20	3.90	0.65	0.20	0.20	0.046
6	0.032	0.040	0.16	3.08	6.13	20	18	3.62	0.70	0.20	0.16	0.040
7	0.032	0.058	0.24	3.20	6.98	16	36	3.34	1.37	0.18	0.16	0.040
8	0.052	0.33	2.00	5.62	7.32	18	37	3.20	0.75	0.18	0.14	0.036
9	0.076	0.26	2.96	11	6.64	30	26	2.96	0.60	0.18	0.14	0.036
10	0.076	0.14	14	9.40	6.47	16	114	2.72	0.57	0.20	0.12	0.036
11	0.064	0.064	11	6.64	32	13	82	2.60	0.54	0.16	0.10	0.036
12	0.064	0.064	12	5.62	60	12	32	2.36	0.51	0.16	0.10	0.036
13	0.064	0.076	6.64	8.80	42	11	22	2.12	0.45	0.14	0.10	0.036
14	0.064	0.082	5.79	7.66	27	9.00	17	2.00	0.42	0.12	0.094	0.040
15	0.064	0.094	17	32	19	8.00	14	1.82	0.42	0.12	0.088	0.040
16	0.064	0.18	14	14	17	7.66	12	1.55	0.42	0.10	0.082	0.036
17	0.070	0.076	42	7.83	13	11	11	1.46	0.39	0.10	0.082	0.032
18	0.076	0.082	18	23	11	24	10	1.46	0.39	0.10	0.082	0.036
19	0.076	0.42	9.60	67	9.40	24	9.80	1.37	0.39	0.10	0.082	0.040
20	0.070	0.14	6.81	40	10	74	11	1.28	0.36	0.10	0.076	0.032
21	0.070	0.088	12	23	12	29	12	1.28	0.36	0.094	0.076	0.032
22	0.070	0.070	20	16	12	15	8.80	1.10	0.33	0.094	0.076	0.032
23	0.070	0.064	21	11	12	78	7.83	1.00	0.30	0.088	0.076	0.036
24	0.076	0.094	16	12	22	80	7.15	0.95	0.28	0.088	0.076	0.032
25	0.076	0.070	11	16	23	48	6.47	0.95	0.28	0.088	0.076	0.028
26	0.070	0.058	9.20	15	14	43	5.96	0.90	0.28	0.088	0.076	0.036
27	0.070	0.088	6.81	17	28	50	6.64	0.85	0.28	0.088	0.076	0.032
28	0.070	0.088	5.11	45	67	39	6.30	0.85	0.28	0.088	0.070	0.032
29	0.064	0.12	5.45	44	79	65	13	0.85	0.26	0.088	0.064	0.036
30	0.064	0.14	6.98	20	84	54	9.40	0.75	0.26	0.082	–	0.040
31	–	0.082	–	13	118	–	7.15	–	0.24	0.082	–	0.046
Total	1.824	3.334	276.89	496.91	785.88	1,039.66	697.50	66.89	14.88	4.106	2.806	1.188
Mean	0.060	0.107	9.23	16.0	25.3	34.6	22.5	2.22	0.48	0.13	0.096	0.03
Max.	0.076	0.33	42	67	118	82	114	5.79	1.37	0.24	0.20	0.058
Min.	0.028	0.040	0.14	3.08	6.13	7.66	5.96	0.75	0.24	0.082	0.064	0.028
Runoff – mcm.	0.157	0.288	23.923	42.933	67.900	89.827	60.264	5.779	0.286	0.355	0.242	0.103

WATER YEAR 1971 : Max. 118 Min. 0.028 Mean 9.26 Annual Runoff 293.057 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.31	09.00	4.54	138				

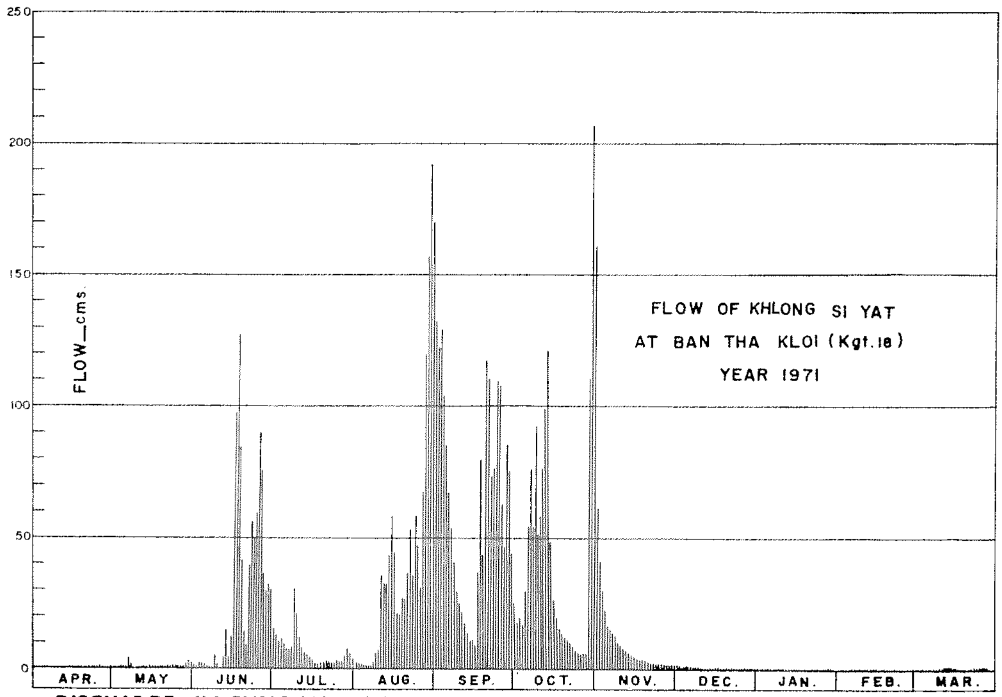
Khlong Si Yat at Ban Tha Kloi, Chachoengsao (Kgt. 18)

Location:	Lat. 13°-26'-30" N., Long. 101°-39'-06" E., on right bank at Ban Tha Kloi, King Amphoe Sanam Chai, Chachoengsao.
Drainage Area:	951 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	At the cocoanut tree infront of Kgt. 18 station office.
Elevation:	+ 6.887 m. (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1969 to date
Rated by Float:	-
Rated by Current Meter:	1969 to date
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Including overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.
Remarks:	* Mean hourly gage height + discharge for period October 28 - November 6.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.59	0.64	1.08	2.58	1.38	6.41	2.99	*4.77	1.03	0.71	0.65	0.59
2	.59	.76	.06	.56	.27	.19	.69	*3.59	.00	.71	.65	.58
3	.58	.72	.26	.18	.18	.33	.81	* .25	0.89	.71	.65	.58
4	.58	1.02	.11	.36	.12	5.37	.60	*2.94	1.01	.71	.65	.58
5	.57	0.94	0.98	.27	.07	.20	3.47	* .67	0.95	.71	.65	.58
6	0.57	0.87	0.85	1.91	1.04	4.51	4.19	*2.48	0.93	0.71	0.64	0.58
7	.57	1.56	.81	.91	.11	.22	5.01	.41	.92	.71	.64	.59
8	.57	.03	.88	2.14	.16	3.78	4.26	.23	.90	.70	.64	.59
9	.56	0.81	1.64	3.41	.77	.33	5.46	.11	.89	.69	.64	.60
10	.56	.73	.15	2.68	.73	.10	4.20	.00	.87	.69	.64	.60
11	0.56	0.70	0.99	2.32	3.61	2.92	4.92	1.91	0.87	0.69	0.63	0.59
12	.56	.67	1.51	.07	.48	.59	5.65	.82	.85	.69	.62	.59
13	.56	.71	2.46	1.83	.50	.37	6.15	.75	.87	.69	.61	.61
14	.55	.71	1.54	.71	4.17	.18	4.20	.68	.83	.68	.61	.60
15	.55	.67	.97	.58	.45	.21	3.31	.61	.84	.68	.61	.60
16	0.61	0.66	4.68	1.47	3.87	2.06	2.91	1.54	0.81	0.68	0.60	0.59
17	.59	.73	6.09	.38	2.93	3.86	.61	.48	.80	.68	.60	.59
18	.58	.71	.28	.34	.87	5.10	.41	.44	.79	.68	.60	.58
19	.60	.70	3.87	.28	3.24	3.86	.26	.39	.79	.68	.60	.58
20	.61	.66	2.50	.33	.24	6.08	.23	.36	.78	.68	.60	.58
21	0.63	0.67	2.04	1.45	3.67	5.87	2.21	1.32	0.77	0.68	0.63	0.58
22	.64	.68	3.93	.36	4.26	4.90	.11	.27	.77	.67	.63	.58
23	.63	.69	4.36	.28	3.56	5.05	1.98	.24	.76	.66	.61	.58
24	.63	.70	.14	.27	4.44	5.88	.88	.20	.76	.67	.61	.58
25	.63	.78	.71	.50	.32	.86	.77	.16	.75	.66	.61	.58
26	0.63	0.73	5.41	1.35	3.35	4.55	1.75	1.14	0.75	0.66	0.61	0.58
27	.62	.71	3.67	.25	5.17	.00	.82	.12	.74	.66	.61	.66
28	.61	.92	.37	.61	6.62	5.27	* .87	.10	.74	.68	.61	.74
29	.60	1.19	.45	.92	7.02	4.58	*5.65	.08	.74	.67	.61	.70
30	.59	.40	.38	.76	.37	3.38	*7.56	.05	.73	.66	-	.85
31	-	.26	-	.55	.22	-	* .15	-	.73	.66	-	.67
Mean	0.59	0.83	2.70	1.82	3.39	4.30	3.56	1.86	0.83	0.68	0.62	0.60
Max.	0.64	1.56	6.28	3.41	7.37	6.41	7.56	4.77	1.03	0.71	0.65	0.85
Min.	0.55	0.64	0.81	1.25	1.04	2.06	1.75	1.05	0.73	0.66	0.60	0.58

WATER YEAR 1971 : Max. 7.56 m. Min. 0.55 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.045	0.070	1.32	16	2.88	133	23	* 71	1.12	0.12	0.075	0.045
2	0.045	0.22	1.24	15	2.25	122	17	* 35	1.00	0.12	0.075	0.040
3	0.040	0.14	2.20	10	1.80	129	19	* 28	0.57	0.12	0.075	0.040
4	0.040	1.08	1.45	12	1.50	89	16	* 22	1.04	0.12	0.075	0.040
5	0.035	0.76	0.92	11	1.28	83	32	* 17	0.80	0.12	0.075	0.040
6	0.035	0.51	0.45	7.20	1.16	60	51	* 14	0.72	0.12	0.070	0.040
7	0.035	4.18	0.33	7.20	1.45	52	76	13	0.68	0.12	0.070	0.045
8	0.035	1.12	0.54	9.68	1.70	40	53	11	0.60	0.10	0.070	0.045
9	0.030	0.33	4.82	31	5.86	29	92	9.32	0.57	0.095	0.070	0.050
10	0.030	0.16	1.65	17	5.54	25	51	8.10	0.51	0.095	0.070	0.050
11	0.030	0.10	0.96	12	36	21	73	7.20	0.51	0.095	0.065	0.045
12	0.030	0.085	3.78	8.87	33	16	100	6.30	0.45	0.095	0.060	0.045
13	0.030	0.12	14	6.40	33	13	121	5.70	0.51	0.095	0.055	0.055
14	0.025	0.12	4.02	5.38	50	10	51	5.14	0.39	0.090	0.055	0.050
15	0.025	0.085	7.80	4.34	58	11	29	4.58	0.42	0.090	0.055	0.050
16	0.055	0.080	65	3.49	42	8.76	21	4.02	0.33	0.090	0.050	0.045
17	0.045	0.16	118	2.88	21	42	16	3.56	0.30	0.090	0.050	0.045
18	0.040	0.12	127	2.64	20	79	13	3.28	0.28	0.090	0.050	0.040
19	0.050	0.10	42	2.30	27	42	11	2.94	0.28	0.090	0.050	0.040
20	0.055	0.080	14	2.58	27	117	11	2.76	0.26	0.090	0.050	0.040
21	0.065	0.085	8.54	3.35	37	109	10	2.52	0.24	0.090	0.065	0.040
22	0.070	0.090	44	2.76	53	73	9.32	2.25	0.24	0.085	0.065	0.040
23	0.065	0.095	56	2.30	34	78	7.90	2.10	0.22	0.080	0.065	0.040
24	0.065	0.10	49	2.25	58	109	6.90	1.90	0.22	0.085	0.055	0.040
25	0.065	0.26	66	3.70	54	108	6.02	1.70	0.20	0.080	0.055	0.040
26	0.065	0.16	90	2.70	30	61	5.70	1.60	0.20	0.080	0.055	0.040
27	0.060	0.12	37	2.15	83	46	6.30	1.50	0.18	0.080	0.055	0.080
28	0.055	0.68	30	4.58	114	85	* 6.96	1.40	0.18	0.090	0.055	0.18
29	0.050	1.85	32	7.30	167	62	*110	1.32	0.18	0.085	0.055	0.10
30	0.045	3.00	30	5.78	192	30	*206	1.20	0.16	0.080	–	0.45
31	–	2.20	–	4.10	181	–	*178	–	0.16	0.080	–	0.085
Total	1.360	18.260	854.02	227.890	1,404.420	1,882.76	1,429.10	291.39	13.52	2.960	1.790	2.025
Mean	0.045	0.589	28.5	7.35	45.3	62.7	46.1	9.71	0.43	0.095	0.061	0.065
Max.	0.070	4.18	127	31	192	133	206	71	1.12	0.12	0.075	0.45
Min.	0.025	0.070	0.33	2.15	1.16	8.76	5.70	1.20	0.16	0.080	0.050	0.040
Runoff - mcm.	0.117	1.578	73.787	19.690	121.342	162.670	123.474	25.178	1.168	0.256	0.155	0.175

WATER YEAR 1971 : Max. 206 Min. 0.025 Mean 16.7 Annual Runoff 529.588 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.30	12.00	7.64	212				

Khlong Luang at Ban Mai, Chon Buri (Kgt. 19)

Location: Lat. 13^{0}-23'-17" N., Long. 101^{0}-20'-40" E., on left bank about 4 kilometers east of Khok Pho market and 6 kilometers from Amphoe Phanat Nikhom, Chon Buri.

Drainage Area: 535 sq.km.

Type of Gage: Water-Stage recorder

Zero Gage at Bottom at: + 12.124 m. (M.S.L.)

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

Location: Infront of Kgt.19 station office.
Elevation: + 25.780 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: 1965 to date

Rating Operation:

Period of Rating: 1965-1974
Rated by Float: -
Rated by Current Meter: 1965-1974

Stability of Channel Regimes: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

Overbank Flow Conditions: Overbank flow starts at elevation + 25.45 m. (M.S.L.)

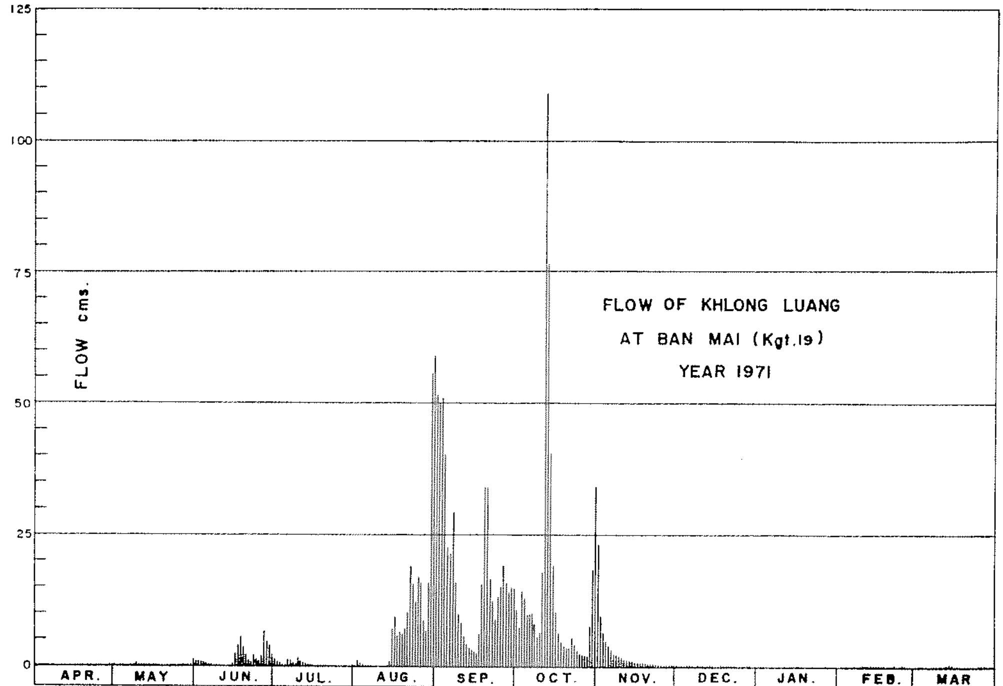
General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.47	20.71	21.21	21.39	20.85	25.46	23.43	24.72	20.81	20.54	20.52	20.45
2	.47	.65	.19	.23	21.30	.45	22.70	23.29	.80	.56	.58	.44
3	.47	.62	.17	.13	.02	.46	23.94	22.53	.80	.56	.49	.44
4	.47	.62	.16	.04	20.85	.28	.82	.25	.77	.54	.47	.44
5	.46	.64	20.98	.07	20.76	24.72	.28	.04	.75	.54	.45	.43
6	20.45	20.64	20.86	21.38	20.70	24.69	23.35	21.88	20.71	20.56	20.52	20.42
7	.45	.79	.79	.34	.65	25.04	.36	.76	.67	.54	.63	.42
8	.45	.78	.79	.14	.60	24.05	22.86	.67	.71	.54	.56	.47
9	.45	20.06	.74	.06	.57	23.34	.40	.59	.72	.51	.52	.55
10	.47	20.90	.71	.53	.45	22.99	.73	.50	.71	.50	.55	.53
11	20.47	20.82	20.69	21.27	20.43	22.53	24.88	21.42	20.68	20.49	20.63	20.50
12	.47	.74	.69	.15	.44	.23	25.79	.36	.68	.53	.62	.48
13	.47	.68	.67	.05	.64	.01	.54	.30	.63	.54	.57	.45
14	.47	.65	.64	20.86	21.34	21.91	.13	.26	.62	.49	.54	.44
15	.47	.62	21.21	.91	22.68	.79	24.17	.22	.60	.46	.56	.43
16	20.47	20.59	21.84	20.86	23.20	21.78	23.04	21.15	20.57	20.50	20.56	20.43
17	.46	.57	22.26	.84	22.53	22.85	22.52	.12	.58	.47	.53	.43
18	.46	.55	.48	.82	.68	24.36	.25	.08	.59	.48	.55	.43
19	.46	.55	.07	.79	.57	25.20	.10	.05	.57	.48	.51	.43
20	.45	.55	21.65	.76	23.01	.20	.04	.02	.59	.47	.51	.43
21	20.47	20.57	21.37	20.76	23.70	24.44	22.17	20.97	20.60	20.48	20.57	20.43
22	.47	.55	.26	.78	24.53	23.83	.44	.97	.60	.48	.58	.42
23	.47	.55	.67	.76	.20	22.98	.15	.94	.59	.47	.56	.42
24	.47	.55	.36	.72	23.77	23.67	21.90	.94	.57	.49	.56	.42
25	.47	.55	.29	.68	24.35	24.18	.76	.91	.56	.49	.53	.40
26	20.46	20.88	21.70	20.66	24.22	24.53	21.67	20.88	20.58	20.47	20.52	20.40
27	.47	.92	22.67	.64	22.85	.29	.64	.88	.55	.52	.49	.40
28	.47	.72	.19	.63	.66	23.95	.64	.86	.78	.52	.51	.40
29	.94	.75	.11	.61	24.70	24.18	23.13	.85	.66	.49	.48	.44
30	.81	.85	21.60	.74	25.51	.18	24.65	.83	.59	.50	-	.56
31	-	21.45	-	.79	.54	-	25.20	-	.54	.50	-	.53
Mean	20.49	20.71	21.36	20.94	22.36	23.92	24.05	21.53	20.65	20.50	20.54	20.44
Max.	20.94	21.45	22.67	21.53	25.54	25.46	25.79	24.72	20.81	20.56	20.63	20.56
Min.	20.45	20.55	20.64	20.61	20.43	21.78	21.64	20.83	20.54	20.46	20.45	20.40

WATER YEAR 1971 : Max. 25.79 m. Min. 20.40 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1971

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.09	0.90	1.27	0.22	51	11	22	0.17	0.01	0.00	0.00
2		0.05	0.78	0.87	1.05	50	6.70	9.65	0.16	0.01	0.02	
3		0.03	0.74	0.66	0.46	51	14	5.85	0.16	0.01	0.00	
4		0.03	0.72	0.49	0.22	38	13	4.45	0.15	0.01	0.00	
5		0.04	0.40	0.54	0.14	22	9.60	3.56	0.13	0.01	0.00	
6		0.04	0.23	1.25	0.08	21	10	2.92	0.09	0.01	0.00	
7		0.16	0.16	1.15	0.05	29	10	2.44	0.06	0.01	0.04	
8		0.15	0.16	0.68	0.02	14	7.50	2.11	0.06	0.01	0.01	0.00
9		0.52	0.12	0.52	0.01	9.94	5.20	1.87	0.10	0.00	0.00	0.01
10		0.28	0.09	1.69	0.00	8.15	6.85	1.60	0.09	0.00	0.01	0.01
11		0.18	0.07	0.97	0.00	5.85	25	1.36	0.07	0.00	0.04	0.00
12		0.12	0.07	0.70	0.00	4.35	109	1.20	0.07	0.01	0.03	
13		0.07	0.06	0.50	0.04	3.44	59	1.05	0.04	0.01	0.01	
14		0.05	0.04	0.23	1.15	3.04	32	0.95	0.03	0.00	0.01	
15		0.03	0.82	0.29	6.60	2.56	15	0.85	0.02		0.01	
16		0.07	2.76	0.23	9.20	2.52	8.40	0.70	0.01		0.01	
17		0.01	4.50	0.21	5.85	7.45	5.80	0.64	0.02		0.01	
18		0.01	5.60	0.18	6.60	17	4.45	0.56	0.02		0.01	
19		0.01	3.68	0.16	6.05	34	3.80	0.50	0.01		0.00	
20		0.01	2.05	0.14	8.25	34	3.56	0.46	0.02		0.00	
21		0.01	1.22	0.14	12	18	4.08	0.38	0.02		0.01	
22		0.01	0.95	0.15	19	13	5.40	0.38	0.02		0.02	
23		0.01	2.11	0.14	16	8.10	4.00	0.34	0.02		0.01	
24		0.01	1.20	0.10	12	13	3.00	0.34	0.01		0.01	
25		0.01	1.02	0.07	17	15	2.44	0.29	0.01		0.01	
26		0.26	2.20	0.06	16	19	2.11	0.26	0.02		0.00	
27		0.31	6.55	0.04	7.45	16	2.02	0.26	0.01		0.00	
28	0.00	0.10	4.16	0.04	6.50	14	2.02	0.23	0.15		0.00	
29	0.34	0.13	3.84	0.03	21	15	8.85	0.22	0.06		0.00	0.00
30	0.17	0.22	1.90	0.12	56	15	21	0.20	0.02		–	0.01
31	–	1.45	–	0.16	59	–	34	–	0.01	0.00	–	0.01
Total	0.54	4.47	49.10	13.78	287.94	554.40	448.78	67.62	1.86	0.10	0.27	0.04
Mean	0.02	0.14	1.64	0.44	9.29	18.5	14.5	2.25	0.06	0.003	0.009	0.001
Max.	0.34	1.45	6.55	1.69	59	51	109	22	0.17	0.01	0.04	0.01
Min.	0.00	0.01	0.04	0.03	0.00	2.52	2.02	0.20	0.01	0.00	0.00	0.00
Runoff – mcm.	0.046	0.386	4.242	1.190	24.878	47.900	38.774	5.842	0.160	0.008	0.023	0.003

WATER YEAR 1971 : Max. 109 Min. 0.00 Mean 3.90 Annual Runoff 123.456 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	04.00	25.92	168				

Prachin Buri River at Amphoe Ban Sang, Prachin Buri (Kgt. 22)

Location: Lat. 13°–59'–45" N., Long. 101°–13'–30" E., on left bank infront of Amphoe Ban Sang office, Prachin Buri.

Drainage Area:

Type of Gage: Staff gage

Zero Gage at Bottom at: – 0.810 m. (M.S.L.)

Bench Mark: B.M. – H.S.

Location: near staff gage site.
Elevation: + 3.032 m. (M.S.L.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967
Rated by Float: –
Rated by Current Meter: 1967

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

Overbank Flow Conditions: No overbank flow.

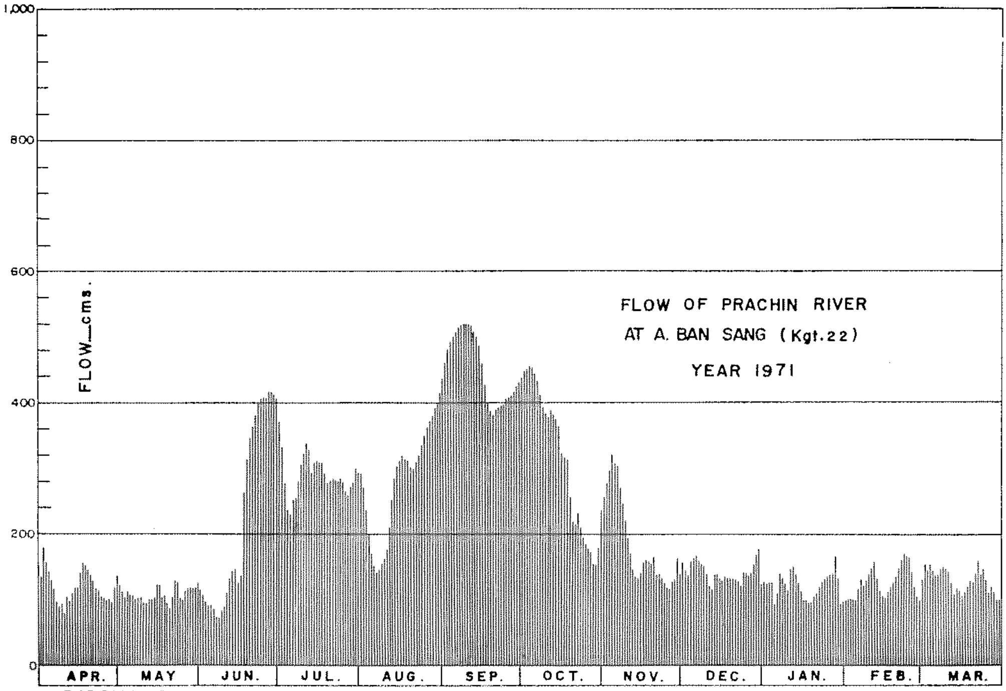
General Description: Records fair. Stage–discharge relationship used is defined by discharge measurements made during 1967. No State diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

Remarks: Gage height is influence by tidal effect the presented flow data may not represent the true mean daily value.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.22	0.12	0.04	1.71	1.28	2.12	2.11	1.03	0.40	0.17	–0.05	0.28
2	.55	.04	–0.04	.49	.09	.24	.13	.17	.30	.14	–0.01	.38
3	.39	–0.03	–0.15	.22	0.84	.31	.14	.34	.24	.17	–0.02	.31
4	.32	0.06	–0.13	0.92	.66	.37	.16	.45	.41	.18	–0.03	.37
5	.21	.01	–0.11	.89	.40	.40	.14	.37	.46	–0.16	–0.04	.29
6	0.09	0.01	–0.17	1.06	0.30	2.43	2.08	1.35	0.47	0.02	0.08	0.24
7	–0.06	–0.04	–0.29	.07	.28	.46	1.99	.16	.40	.28	.20	.26
8	–0.14	–0.02	–0.28	.23	.34	.48	.91	0.99	.39	.18	.12	.35
9	–0.09	–0.01	–0.16	.42	.42	.48	.84	.83	.37	.14	.23	.35
10	–0.23	–0.09	–0.09	.49	.44	.48	.79	.69	.26	.08	.29	.33
11	0.00	–0.09	0.14	1.55	0.61	2.48	1.76	0.54	0.12	0.31	0.32	0.28
12	–0.08	–0.03	.27	.50	.85	.45	.81	.36	.07	.35	.39	.15
13	0.05	0.02	.30	.27	1.17	.40	.78	.26	.27	.24	.22	.01
14	.10	–0.03	.31	.40	.31	.36	.73	.23	.26	.17	.06	.11
15	.08	0.12	.18	.41	.39	.27	.68	.23	.19	.04	.00	.03
16	0.30	0.15	0.28	1.40	1.45	2.14	1.47	0.32	0.20	–0.04	–0.02	0.00
17	.37	–0.01	.68	.38	.41	1.99	.42	.42	.24	–0.04	0.03	.07
18	.35	0.00	1.33	.27	.40	.86	.41	.42	.20	–0.08	.12	.13
19	.31	–0.12	.55	.20	.35	.80	.11	.39	.20	–0.05	.17	.19
20	.23	–0.14	.65	.23	.33	.78	0.82	.46	.21	0.03	.21	.19
21	0.16	0.05	1.72	1.25	1.35	1.83	0.79	0.27	0.20	0.05	0.38	0.28
22	.08	.19	.80	.23	.41	.84	.90	.29	.01	.13	.36	.40
23	.06	.17	.90	.21	.48	.85	.75	.22	–0.03	.18	.48	.24
24	–0.01	–0.03	.91	.25	.53	.86	.70	.17	0.28	.21	.47	.32
25	–0.02	–0.06	.92	.21	.65	.92	.62	.13	.28	.24	.45	.18
26	–0.07	0.08	1.93	1.11	1.68	1.92	0.56	0.11	0.25	0.24	0.30	0.03
27	–0.02	.10	.97	.08	.76	.94	.52	.20	.25	.28	.11	.13
28	–0.08	.10	.96	.20	.79	.99	.38	.23	.35	.45	–0.02	.01
29	0.12	.12	.95	.21	.85	2.04	.38	.44	.48	.21	–0.07	–0.05
30	.25	.11	.90	.33	.92	.05	.58	.26	.53	–0.09	–	–0.03
31	–	.15	–	.29	2.00	–	.87	–	.14	–0.07	–	0.00
Mean	0.11	0.022	0.78	1.27	1.18	2.15	1.36	0.58	0.27	0.13	0.16	0.19
Max.	0.55	0.19	1.97	1.71	2.00	2.48	2.16	1.45	0.53	0.45	0.48	0.40
Min.	–0.23	–0.14	–0.29	0.89	0.28	1.78	0.38	0.11	–0.03	–0.16	–0.07	–0.05

WATER YEAR 1971 : Max. 2.48 m. Min. –0.29 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	133	120	110	368	291	447	445	251	158	127	99	141
2	179	110	100	328	261	471	449	273	144	123	104	155
3	156	101	88	282	222	485	451	302	136	127	102	145
4	147	112	90	234	195	497	455	321	159	128	101	154
5	132	106	92	229	158	503	451	307	166	87	100	142
6	117	106	85	256	144	509	439	303	168	107	115	136
7	98	100	72	257	141	515	421	272	158	141	131	138
8	89	102	73	283	150	519	406	245	156	128	120	151
9	94	104	87	315	161	519	393	220	154	123	134	151
10	79	94	94	328	163	519	383	199	138	115	142	148
11	105	94	123	339	187	519	378	177	120	145	147	141
12	96	101	140	330	223	513	387	152	114	151	156	124
13	111	102	144	290	273	503	381	138	140	136	133	106
14	118	101	145	312	297	495	372	134	138	127	112	119
15	115	120	128	314	310	477	363	134	129	110	105	109
16	144	124	141	312	321	451	324	147	131	100	102	105
17	154	104	198	308	314	421	315	161	136	100	109	114
18	151	105	300	290	312	396	314	161	131	96	120	121
19	145	91	339	278	303	385	264	156	131	99	127	129
20	134	89	357	283	300	381	219	166	132	109	132	129
21	125	111	370	286	303	391	214	140	131	111	147	141
22	115	129	385	283	314	393	231	142	106	121	152	158
23	112	127	404	280	326	394	208	133	101	128	169	136
24	104	101	406	286	336	396	201	127	141	132	168	147
25	102	98	408	280	357	408	189	121	141	136	165	128
26	97	115	409	264	365	408	180	119	137	136	144	109
27	102	118	417	259	378	411	175	131	137	141	119	121
28	96	118	415	278	383	421	155	134	151	165	102	106
29	120	120	413	280	394	431	155	163	169	132	97	99
30	137	119	404	300	408	433	183	138	176	94	–	101
31	–	124	–	293	423	–	226	–	123	97	–	105
Total	3,607	3,366	6,937	9,025	8,712	13,611	9,727	5,567	4,352	3,772	3,654	4,009
Mean	120	108	231	291	281	454	314	185	140	122	126	129
Max.	179	129	417	368	423	519	455	321	176	165	169	158
Min.	79	89	72	229	141	381	155	119	101	87	97	99
Runoff - MCM.	311.645	290.822	599.357	779.760	752.717	1,175.990	840.413	480.989	376.013	325.901	315.706	346.378

WATER YEAR 1971 : Max. 519 Min. 72 Mean 208 Annual Runoff 6,595.690 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8	18.00	249	521				

Prachantakham at Ban Takhro, Prachin Buri (Kgt. 24)

Location: Lat. 14°-10'-34" N., Long. 101°-35'-30" E., on right bank at Ban Takhro, Amphoe Prachantakham, Pradhin Buri.

Drainage Area: 121 sq.km.

Type of Gage: Water-Stage recorder

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

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

Location: near the Kgt. 24 station office
Elevation: + 8.365 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1971 to date

Rating Operation:

Period of Rating: 1971 to date
Rated by Float: -
Rated by Current Meter: 1971 to date

Stability of Channel Regimes: Fairly stable because of backwater effect, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Prachantakham Dam. No adjustment made for virgin flow.

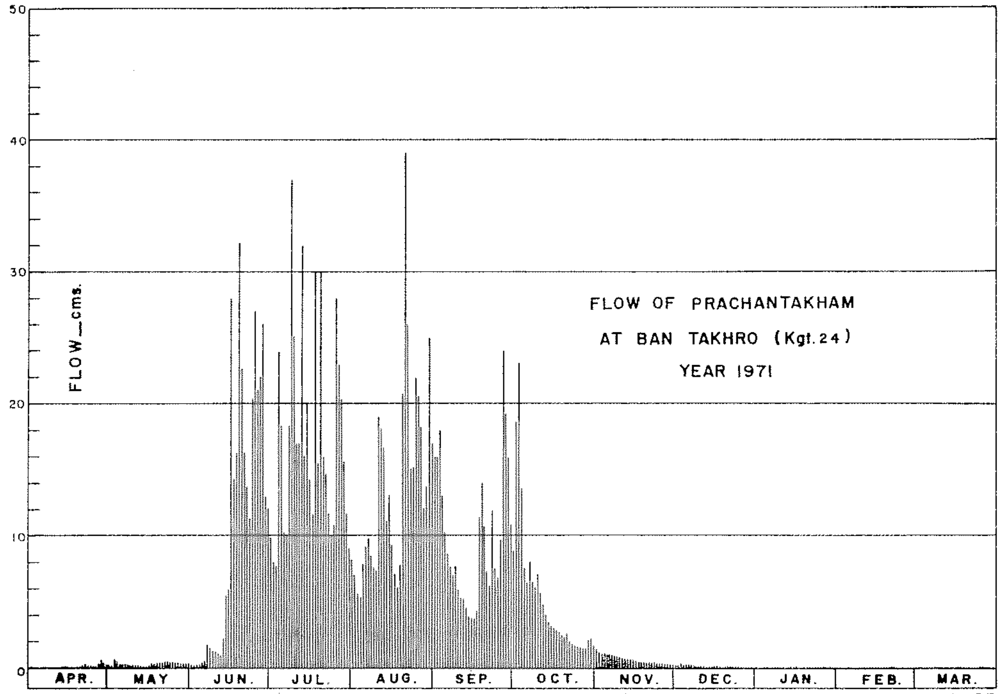
Remarks: * Flow adjusted by rate of change of stage $(\frac{dh}{dt})$ by Lewis Method $(\frac{QM}{QC} = \sqrt{1+3.28\frac{dh}{dt}}$ Detail in Computation Book).

x By estimate.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.54	0.56	1.88	1.73	2.36	1.77	0.90	0.54	0.41	0.32	0.33
2	.40	.52	.55	.74	.61	.37	2.57	.86	.53	.40	.32	.35
3	.40	.72	.57	.63	.49	.46	.79	.83	.53	.40	.32	.32
4	.39	.64	.58	2.80	.41	.16	1.89	.83	.53	.40	.33	.31
5	.38	.57	.61	.50	.73	1.91	.69	.82	.52	.40	.34	.31
6	0.39	0.55	0.64	1.89	1.85	1.80	1.55	0.81	0.52	0.39	0.33	0.31
7	.39	.54	.97	.84	.90	.71	.73	.80	.51	.39	.32	.31
8	.39	.53	x .93	2.67	.77	.64	.59	.78	.50	.38	.32	.31
9	.38	.52	x .89	3.61	.69	.71	.53	.76	.50	.38	.33	.31
10	.38	.51	x .85	2.81	.66	.54	.65	.75	.49	.37	.33	.31
11	0.38	0.50	x 0.81	2.47	2.52	1.46	1.47	0.74	0.48	0.37	0.33	0.31
12	.38	.49	x .78	.41	.48	.45	.40	.73	.47	.36	.33	.31
13	.38	.49	x 1.00	3.29	.39	.36	.33	.71	.47	.36	.33	.31
14	.41	.48	.47	2.35	1.98	.30	.26	.70	.46	.36	.33	.31
15	.41	.49	.53	.67	2.18	.28	.22	.68	.46	.41	.33	.31
16	0.39	0.50	3.11	2.12	1.79	1.28	1.18	0.67	0.45	0.45	0.33	0.31
17	.39	.59	2.23	1.98	.67	.37	.15	.65	.45	.35	.33	.31
18	.40	.55	.43	3.25	.56	2.01	.12	.64	.45	.35	.33	.31
19	.42	.54	3.33	2.23	.52	.23	.09	.64	.44	.34	.33	.31
20	.51	.60	2.71	3.25	2.70	1.93	.07	.63	.44	.34	.33	.31
21	0.51	0.60	2.37	2.35	3.68	1.61	1.12	0.62	0.43	0.34	0.33	0.31
22	.56	.64	.18	.33	2.60	.52	.03	.61	.43	.34	.32	.31
23	.49	.67	1.95	.06	.32	2.06	0.97	.61	.43	.34	.32	.31
24	.48	.65	2.70	1.92	.31	1.67	.95	.59	.43	.33	.32	.31
25	.47	.62	3.02	.97	.78	.61	.94	.59	.42	.33	.32	.32
26	0.48	0.60	2.72	3.00	2.01	1.89	0.93	0.58	0.42	0.33	0.32	0.32
27	.61	.58	.77	2.74	.52	2.84	.92	.58	.42	.33	.32	.33
28	.66	.58	3.01	.69	.06	.48	.91	.57	.41	.33	.32	.34
29	.58	.58	2.16	.32	.14	.32	1.04	.56	.41	.33	.32	.34
30	.55	.58	.08	.01	.85	1.95	.07	.55	.41	.33	-	.35
31	-	.56	-	1.81	.44	-	0.94	-	.41	.32	-	.35
Mean	0.44	0.56	1.72	2.41	2.11	1.84	1.35	0.69	0.46	0.36	0.32	0.32
Max.	0.66	0.72	3.33	3.61	3.68	2.84	2.79	0.90	0.54	0.45	0.34	0.35
Min.	0.38	0.48	0.55	1.63	1.41	1.28	0.91	0.55	0.41	0.32	0.32	0.31

WATER YEAR 1971 : Max. 3.68 m. Min. 0.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.060	0.26	0.29	9.69	8.01	16	8.45	1.40	0.26	0.072	0.012	0.018
2	0.060	0.22	0.27	8.12	6.76	16	19	1.23	0.24	0.060	0.012	0.030
3	0.060	0.71	0.31	6.97	5.59	18 *	23	1.11	0.24	0.060	0.012	0.012
4	0.054	0.48	0.33	24 *	4.85	13	9.81	1.11	0.24	0.060	0.018	0.006
5	0.048	0.31	0.40	17	8.01	10	7.58	1.06	0.22	0.060	0.024	0.006
6	0.054	0.27	0.48	9.81	9.35	8.78	6.17	1.02	0.22	0.054	0.018	0.006
7	0.054	0.26	1.75	9.24	9.92	7.79	8.01	0.98	0.20	0.054	0.012	0.006
8	0.054	0.24	1.55	21	8.45	7.07	6.56	0.91	0.18	0.048	0.012	0.006
9	0.048	0.22	1.36	37 *	7.58	7.79	5.97	0.84	0.18	0.048	0.018	0.006
10	0.048	0.20	1.19	22 *	7.27	6.07	7.17	0.81	0.17	0.042	0.018	0.006
11	0.048	0.18	1.02	17 *	19 *	5.31	5.40	0.78	0.16	0.042	0.018	0.006
12	0.048	0.17	0.91	17 *	18	5.22	4.76	0.74	0.14	0.036	0.018	0.006
13	0.048	0.17	1.90	32	16	4.41	4.14	0.67	0.14	0.036	0.018	0.006
14	0.072	0.16	5.40	16	11	3.88	3.58	0.64	0.13	0.036	0.018	0.006
15	0.072	0.17	5.97	20 *	13	3.73	3.29	0.59	0.13	0.072	0.018	0.006
16	0.054	0.18	28	13	8.67	3.73	3.01	0.56	0.12	0.12	0.018	0.006
17	0.054	0.35	14	11	7.37	4.50	2.81	0.50	0.12	0.030	0.018	0.006
18	0.060	0.27	17	30 *	6.27	11	2.61	0.48	0.12	0.030	0.018	0.006
19	0.084	0.26	32	14	5.88	14	2.42	0.48	0.11	0.024	0.018	0.006
20	0.20	0.37	21	30 *	22 *	10	2.31	0.45	0.11	0.024	0.018	0.006
21	0.20	0.37	16	16	39 *	6.76	2.61	0.42	0.096	0.024	0.018	0.006
22	0.29	0.48	13	15	20	5.88	2.07	0.40	0.096	0.024	0.012	0.006
23	0.17	0.56	10	12	15 *	12	1.75	0.40	0.096	0.024	0.012	0.006
24	0.16	0.50	21	10	15 *	7.37	1.65	0.35	0.096	0.018	0.012	0.006
25	0.14	0.42	27	11	22	6.76	1.60	0.35	0.084	0.018	0.012	0.012
26	0.16	0.37	21	28 *	11	9.81	1.55	0.33	0.084	0.018	0.012	0.012
27	0.40	0.33	22	22 *	18 *	24 *	1.50	0.33	0.084	0.018	0.012	0.018
28	0.53	0.33	26	20 *	12	18	1.45	0.31	0.072	0.018	0.012	0.024
29	0.33	0.33	13	15	13	15	2.13	0.29	0.072	0.018	0.012	0.024
30	0.27	0.33	12	11	25 *	10	2.31	0.27	0.072	0.018	–	0.030
31	–	0.29	–	8.89	17	–	1.60	–	0.072	0.012	–	0.030
Total	3.900	9.76	316.13	533.72	409.98	291.86	156.27	19.81	4.354	1.218	0.450	0.336
Mean	0.13	0.31	10.5	17.2	13.2	9.73	5.04	0.66	0.14	0.039	0.015	0.011
Max.	0.53	0.71	32	37	39	24	23	1.40	0.26	0.12	0.024	0.030
Min.	0.048	0.16	0.27	6.97	4.85	3.73	1.45	0.27	0.072	0.012	0.012	0.006
Runoff - mcm.	0.337	0.843	27.314	46.112	35.422	25.217	13.502	1.711	0.376	0.105	0.039	0.029

WATER YEAR 1971 : Max. 39 Min. 0.006 Mean 4.77 Annual Runoff 151.009 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.21	05.00	4.66	114				

Khlong Mae Nam Khu at Ban Mae Nam Khu, Rayong (Z. 3)

Location: Lat. 12°-53'-35" N., Long. 101°-15'-29" E., on left bank at Ban Mae Nam Khu, Tambon Tasit, Amphoe Ban Khai, Rayong.

Drainage Area: 291 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 25.594 m. (M.S.L.)

Bench Mark: B.M. No. 1577 of Army Survey Department.

Location: At the rain tree near staff gage.
Elevation: –

Gage Reading Frequency: 5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April – June, November – March 1972, 15-time daily reading at 06.00-18.00, 21.00 and 24.00 hours on July – October.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 15 readings.

Period of Available Gage Records: 1967-72

Rating Operation:

Period of Rating: 1966-72
Rated by Float: –
Rated by Current Meter: 1966-1972

Stability of Channel Regimes: Fairly Stable, no shifting adjustment for flow computation, and including overbank flow.

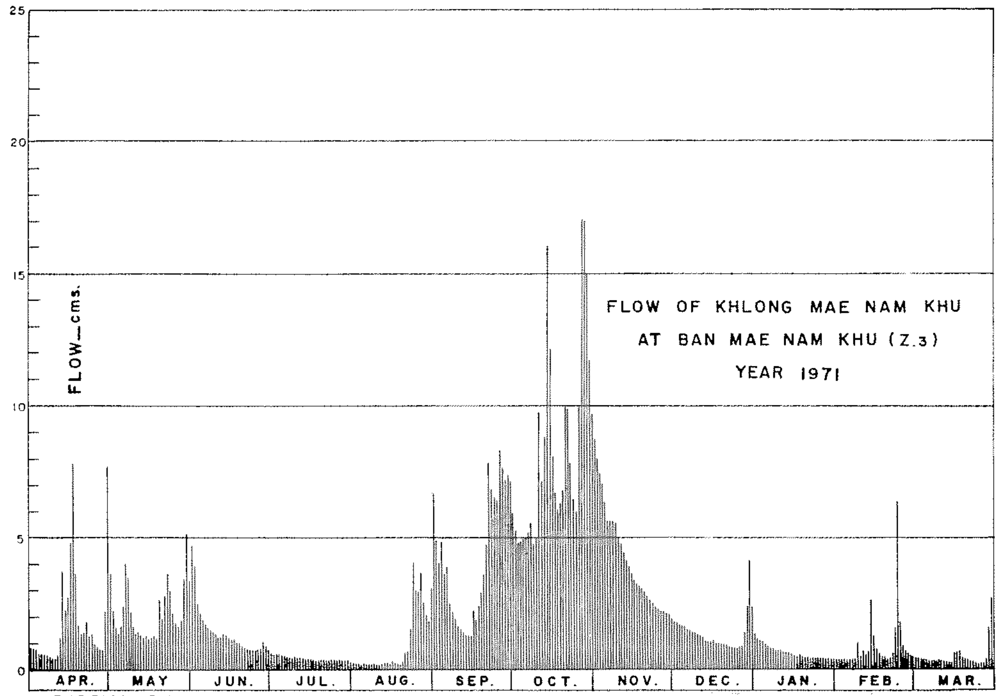
Overbank Flow Conditions: Overbank flow starts at elevation + 28.12 m. (M.S.L.)

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.03	26.70	26.85	25.95	25.79	27.16	27.04	27.42	26.29	26.17	25.87	25.90
2	.00	.45	.74	.93	.78	26.87	26.93	.33	.28	.11	.87	.89
3	25.97	.25	.43	.94	.77	.73	.87	.27	.26	.09	.86	.88
4	.95	.16	.35	.94	.76	.88	.88	.21	.25	.06	.86	.86
5	.94	.23	.29	.93	.77	.67	.90	.11	.23	.04	.86	.85
6	25.93	26.41	26.26	25.92	25.76	26.71	26.91	27.01	26.22	26.03	25.87	25.83
7	.92	.73	.23	.91	.77	.42	.95	.01	.21	.02	.88	.84
8	.90	.62	.20	.89	.77	.36	27.00	.01	.19	.01	.90	.84
9	.88	.32	.19	.89	.77	.31	26.86	26.99	.17	25.99	26.07	.84
10	.89	.22	.16	.91	.77	.26	.92	.91	.15	.98	25.90	.83
11	25.94	26.17	26.14	25.89	25.77	26.21	27.55	26.87	26.15	25.97	25.97	25.83
12	26.15	.20	.13	.90	.77	.17	.21	.81	.13	.97	.92	.81
13	.68	.13	.17	.89	.77	.16	.40	.76	.11	.96	26.00	.81
14	.36	.13	.16	.88	.79	.14	28.11	.72	.10	.95	.47	.81
15	.46	.14	.12	.87	.80	.16	27.84	.67	.09	.94	.09	.83
16	26.91	26.10	26.11	25.86	25.81	26.38	27.36	26.63	26.09	25.93	25.99	25.97
17	27.31	.13	.10	.85	.79	.28	.15	.59	.07	.91	.95	.97
18	26.41	.15	.08	.84	.78	.44	.07	.57	.06	.93	.92	.98
19	.22	.11	.06	.85	.77	.55	.13	.55	.05	.91	.91	.89
20	.17	.47	.03	.86	.86	.72	.20	.51	.05	.90	.89	.85
21	26.18	26.28	26.02	25.85	25.98	26.93	27.59	26.49	26.04	25.90	25.88	25.83
22	.29	.52	.01	.85	.97	27.32	.56	.46	.03	.90	.95	.82
23	.12	.66	.00	.84	26.25	.18	.25	.44	.02	.89	26.17	.81
24	.17	.56	25.99	.88	.76	.15	.12	.42	.01	.89	27.12	.80
25	.06	.34	26.00	.87	.54	.11	.04	.40	.01	.89	26.13	.79
26	26.03	26.27	26.01	25.85	26.52	27.38	27.39	26.38	26.03	25.89	26.04	25.79
27	.01	.25	.00	.84	.67	.32	28.17	.37	.04	.89	25.98	.79
28	.01	.25	.08	.84	.46	.22	.17	.37	.22	.88	.94	.81
29	.26	.57	.04	.84	.32	.27	27.92	.35	.47	.88	.91	26.18
30	27.30	.93	25.97	.84	.28	.23	.69	.32	.76	.88		.50
31	–	.58	–	.81	.60	–	.54	–	.28	.88	–	.52
Mean	26.21	26.35	26.16	25.88	26.00	26.72	27.31	26.73	26.16	25.96	26.00	25.90
Max.	27.31	26.93	26.85	25.95	26.76	27.38	28.17	27.42	26.76	26.17	27.12	26.52
Min.	25.88	26.10	25.97	25.81	25.76	26.14	26.86	26.32	26.01	25.88	25.86	25.79

WATER YEAR 1971 : Max. 28.17 m. Min. 25.76 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	3.85	4.70	0.65	0.28	6.67	5.86	8.67	1.86	1.39	0.44	0.50
2	0.80	2.57	4.07	0.59	0.27	4.82	5.18	7.94	1.82	1.18	0.44	0.48
3	0.71	1.70	2.48	0.62	0.25	4.01	4.82	7.47	1.74	1.11	0.42	0.46
4	0.65	1.36	2.12	0.62	0.24	4.88	4.88	7.02	1.70	1.01	0.42	0.42
5	0.62	1.62	1.86	0.59	0.25	3.68	5.00	6.32	1.62	0.94	0.42	0.40
6	0.59	2.39	1.74	0.56	0.24	3.90	5.06	5.66	1.58	0.90	0.44	0.36
7	0.56	4.01	1.62	0.53	0.25	2.44	5.30	5.66	1.54	0.87	0.46	0.38
8	0.50	3.41	1.50	0.48	0.25	2.17	5.60	5.66	1.46	0.83	0.50	0.38
9	0.46	1.99	1.46	0.48	0.25	1.94	4.76	5.54	1.39	0.77	1.04	0.38
10	0.42	1.58	1.36	0.53	0.25	1.74	5.12	5.06	1.32	0.74	0.50	0.36
11	0.62	1.39	1.29	0.48	0.25	1.54	9.77	4.82	1.32	0.71	0.71	0.36
12	1.32	1.50	1.25	0.50	0.25	1.39	7.02	4.46	1.25	0.71	0.56	0.32
13	3.74	1.25	1.39	0.48	0.25	1.36	8.50	4.18	1.18	0.68	0.80	0.32
14	2.17	1.25	1.36	0.46	0.28	1.29	16	3.96	1.15	0.65	2.66	0.32
15	2.62	1.29	1.22	0.44	0.30	1.36	12	3.68	1.11	0.62	1.11	0.36
16	5.06	1.15	1.18	0.42	0.32	2.26	8.18	3.46	1.11	0.59	0.77	0.71
17	7.78	1.25	1.15	0.40	0.28	1.82	6.60	3.25	1.04	0.53	0.65	0.71
18	2.39	1.32	1.08	0.38	0.27	2.53	6.05	3.15	1.01	0.59	0.56	0.74
19	1.58	1.18	1.01	0.40	0.25	3.05	6.46	3.05	0.97	0.53	0.53	0.48
20	1.39	2.66	0.90	0.42	0.42	3.96	6.95	2.85	0.97	0.50	0.48	0.40
21	1.43	1.82	0.87	0.40	0.74	5.18	10	2.75	0.94	0.50	0.46	0.36
22	1.86	2.90	0.83	0.40	0.71	7.86	9.86	2.62	0.90	0.50	0.65	0.34
23	1.22	3.63	0.80	0.38	1.70	6.81	7.32	2.53	0.87	0.48	1.39	0.32
24	1.39	3.10	0.77	0.46	4.18	6.60	6.39	2.44	0.83	0.48	6.39	0.30
25	1.01	2.08	0.80	0.44	3.00	6.32	5.86	2.35	0.83	0.48	1.25	0.28
26	0.90	1.78	0.83	0.40	2.90	8.34	8.42	2.26	0.90	0.48	0.94	0.28
27	0.83	1.70	0.80	0.38	3.68	7.86	17	2.21	0.94	0.48	0.74	0.28
28	0.83	1.70	1.08	0.38	2.62	7.10	17	2.21	1.58	0.46	0.62	0.32
29	1.74	3.15	0.94	0.38	1.99	7.47	14	2.12	2.66	0.46	0.53	1.43
30	7.70	5.18	0.71	0.38	1.82	7.17	11	1.99	4.18	0.46	–	2.80
31	–	3.20	–	0.32	3.30	–	9.69	–	1.82	0.46	–	2.90
Total	53.85	68.96	43.17	14.35	32.04	127.52	256.65	125.34	43.59	21.09	26.88	18.45
Mean	1.79	2.22	1.44	0.46	1.03	4.25	8.29	4.18	1.41	0.68	0.93	0.59
Max.	7.78	5.18	4.70	0.65	4.18	8.34	17	8.67	4.18	1.39	6.39	2.90
Min.	0.46	1.15	0.71	0.32	0.24	1.29	4.76	1.99	0.83	0.46	0.42	0.28
Runoff - MCM.	4.653	5.958	3.730	1.240	2.768	11.018	22.174	10.829	3.766	1.822	2.322	1.594

WATER YEAR 1971 : Max. 17 Min. 0.24 Mean 2.27 Annual Runoff 71.875 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.14	17.00	28.46	22				

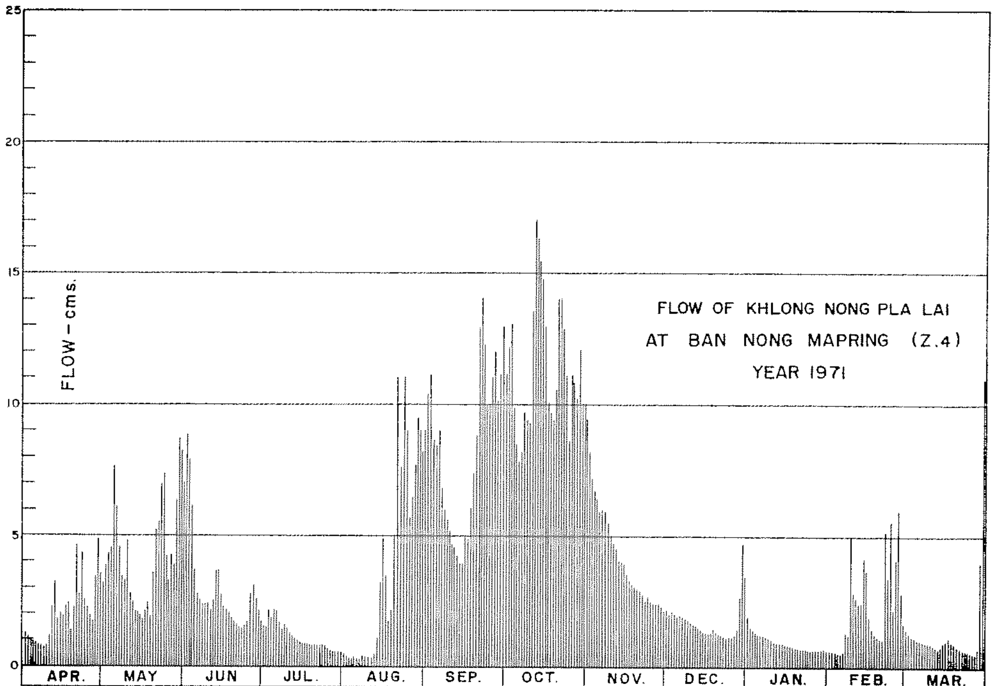
Khlong Nong Pla Lai at Ban Nong Mapring, Rayong (Z.4)

Location:	Lat. 12°-54'-40" N., Long. 101°-17'-37" E., on left bank at Ban Nong Ma Pring, Amphoe Ban Khai, Rayong.
Drainage Area:	429 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	Near the gage site
Elevation:	+ 5.270 M. (A.D.)
Gage Reading Frequency:	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April - June, November - March 1972, 15-time daily reading at 06.00 - 18.00, 21.00 and 24.00 hours on July - October.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 and 15 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967-1974
Rated by Float:	-
Rated by Current Meter:	1967-1974
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow exists but hardly to be determined records are channel flow only.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.54	0.90	1.68	0.58	0.29	2.23	2.34	2.04	0.75	0.64	0.31	0.56
2	.50	1.11	.97	.57	.27	.25	.45	1.81	.71	.59	.33	.51
3	.47	.20	.69	.76	.25	.05	.56	.65	.74	.56	.31	.48
4	.44	.23	.22	.67	.24	1.94	.09	.59	.70	.53	.30	.46
5	.42	.79	0.97	.75	.24	.88	1.86	.51	.68	.51	.29	.43
6	0.41	1.40	0.88	0.74	0.22	2.00	1.80	1.48	0.70	0.50	0.32	0.43
7	.39	.30	.83	.63	.22	1.65	.86	.49	.68	.50	.54	.42
8	.37	.03	.80	.56	.27	.51	2.10	.47	.66	.40	.49	.41
9	.36	0.97	.81	.60	.25	.43	.04	.36	.65	.46	1.29	.41
10	.48	1.29	.82	.59	.24	.33	.02	.27	.64	.45	0.89	.40
11	0.74	0.88	0.75	0.52	0.24	1.24	2.71	1.25	0.62	0.44	0.83	0.39
12	.99	.86	.79	.49	.23	.23	3.02	.19	.60	.43	.79	.37
13	.66	.76	1.07	.46	.27	.12	2.96	.12	.57	.43	.81	.36
14	.74	.71	.07	.44	.56	.11	.80	.13	.54	.41	1.17	.42
15	.70	.71	0.89	.43	.92	.12	.66	.08	.54	.40	0.97	.44
16	0.79	0.66	0.78	0.42	1.30	1.31	2.38	1.00	0.54	0.39	0.60	0.45
17	.81	.76	.75	.41	0.81	.29	.19	0.96	.53	.38	.54	.46
18	.67	.82	.72	.43	.64	.49	.08	.95	.53	.38	.50	.42
19	.55	.70	.67	.42	.76	.74	.05	.93	.57	.37	.47	.41
20	.75	1.05	.63	.39	1.68	.96	.38	.92	.53	.36	.45	.36
21	1.24	1.33	0.60	0.41	2.26	2.63	2.76	0.90	0.51	0.35	0.45	0.35
22	0.87	.41	.58	.40	1.53	.71	.70	.86	.50	.34	1.25	.33
23	1.19	.67	.58	.40	2.14	.47	.43	.83	.49	.34	0.98	.31
24	0.82	.74	.62	.41	.35	.13	.08	.86	.48	.34	1.42	.31
25	.76	.08	.67	.37	1.97	.16	1.92	.81	.49	.33	0.73	.30
26	0.72	0.99	0.84	0.34	1.44	2.30	2.28	0.80	0.48	0.34	1.01	0.29
27	.64	1.20	.94	.32	.57	.49	.17	.81	.50	.34	.48	.29
28	.99	.10	.85	.32	.75	.19	.33	.80	.58	.34	0.71	.39
29	1.29	.42	.84	.31	2.07	.25	.40	.75	.97	.34	.60	.96
30	.14	.95	.65	.32	1.92	.58	.23	.74	1.26	.34		2.26
31	-	.86	-	.31	.87	-	.22	-	0.80	.32	-	.80
Mean	0.71	1.12	0.90	0.48	1.02	1.86	2.32	1.14	0.63	0.42	0.72	0.55
Max.	1.29	1.95	1.97	0.76	2.35	2.71	3.02	2.04	1.26	0.64	1.48	2.80
Min.	0.36	0.66	0.58	0.31	0.22	1.11	1.80	0.74	0.48	0.32	0.29	0.29

WATER YEAR 1971 : Max. 3.02 m. Min. 0.22 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.30	2.82	6.99	1.45	0.47	10	11	9.26	2.14	1.68	0.53	1.37
2	1.15	3.86	8.80	1.41	0.42	11	12	7.76	1.97	1.48	0.59	1.19
3	1.04	4.35	7.04	2.18	0.36	9.19	13	6.82	2.10	1.37	0.53	1.08
4	0.94	4.51	4.45	1.81	0.34	8.61	9.58	6.48	1.93	1.26	0.50	1.01
5	0.87	7.64	3.16	2.14	0.34	8.22	8.09	6.04	1.85	1.19	0.47	0.90
6	0.83	5.42	2.73	2.10	0.28	9.00	7.70	5.87	1.93	1.15	0.56	0.90
7	0.77	4.87	2.49	1.64	0.28	6.82	8.09	5.92	1.85	1.15	1.30	0.87
8	0.71	3.46	2.35	1.37	0.42	6.04	9.65	5.81	1.77	1.08	1.11	0.83
9	0.68	3.16	2.40	1.52	0.36	5.59	9.26	5.20	1.72	1.01	4.82	0.83
10	1.08	4.82	2.44	1.48	0.34	5.03	9.13	4.71	1.68	0.97	2.77	0.80
11	2.10	2.73	2.14	1.22	0.34	4.56	14	4.61	1.60	0.94	2.49	0.77
12	3.26	2.63	2.31	1.11	0.31	4.51	17	4.30	1.52	0.90	2.31	0.71
13	1.77	2.18	3.66	1.01	0.42	3.92	16	3.92	1.41	0.90	2.40	0.68
14	2.10	1.97	3.66	0.94	1.37	3.86	15	3.97	1.30	0.83	4.19	0.87
15	1.93	1.97	2.77	0.90	2.92	3.92	14	3.71	1.30	0.80	3.16	0.94
16	2.31	1.77	2.27	0.87	4.87	4.92	12	3.31	1.30	0.77	1.52	0.97
17	2.40	2.18	2.14	0.83	2.40	4.82	10	3.11	1.26	0.74	1.30	1.01
18	1.81	2.44	2.01	0.90	1.68	5.92	9.52	3.06	1.26	0.74	1.15	0.87
19	1.33	1.93	1.81	0.87	2.18	7.34	9.32	2.97	1.41	0.71	1.04	0.83
20	2.14	3.56	1.64	0.77	6.99	8.74	12	2.92	1.26	0.68	0.97	0.68
21	4.56	5.03	1.52	0.83	11	13	14	2.82	1.19	0.65	0.97	0.65
22	2.68	5.48	1.45	0.80	6.15	14	14	2.63	1.15	0.62	5.14	0.59
23	4.30	6.93	1.45	0.80	9.92	12	12	2.49	1.11	0.62	3.21	0.53
24	2.44	7.34	1.60	0.83	11	9.85	9.52	2.63	1.08	0.62	5.53	0.53
25	2.18	3.71	1.81	0.71	8.80	10	8.48	2.40	1.11	0.59	2.06	0.50
26	2.01	3.26	2.54	0.62	5.64	11	11	2.35	1.08	0.62	3.36	0.47
27	1.68	4.35	3.02	0.56	6.37	12	10	2.40	1.15	0.62	5.87	0.47
28	3.26	3.81	2.58	0.56	7.40	10	11	2.35	1.45	0.62	1.97	0.77
29	4.82	5.53	2.54	0.53	9.45	11	12	2.14	3.16	0.62	1.52	3.11
30	4.03	8.67	1.72	0.56	8.48	13	10	2.10	4.66	0.62	–	11
31	–	8.09	–	0.53	8.15	–	10	–	2.35	0.56	–	15
Total	62.48	131.10	87.49	33.85	119.45	247.86	348.34	124.12	52.05	27.11	63.34	51.73
Mean	2.08	4.23	2.92	1.09	3.85	8.26	11.2	4.14	1.68	0.87	2.18	1.67
Max.	4.82	8.67	8.80	2.18	11	14	17	9.26	4.66	1.68	5.87	15
Min.	0.68	1.77	1.45	0.53	0.28	3.86	7.70	2.10	1.08	0.56	0.47	0.47
Runoff – MCM.	5.398	11.327	7.559	2.925	10.320	21.415	30.097	10.724	4.497	2.342	5.473	4.469

WATER YEAR 1971 : Max. 17 Min. 0.28 Mean 3.68 Annual Runoff 116.547 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.12	14.00	3.09	17				

RAYONG RIVER BASIN

Khlong Prasae at Ban Yang Ngam, Rayong (Z. 5)

Location: Lat. 12°-53'-03" N., Long. 101°-35'-58" E., on left bank at Ban Yang Ngam, Amphoe Klaeng, Rayong.

Drainage Area: 1,164 sq.km.

Type of Gage: Water-Stage recorder.

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

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

Location: Infront of Z5 station office
Elevation: + 7.595 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

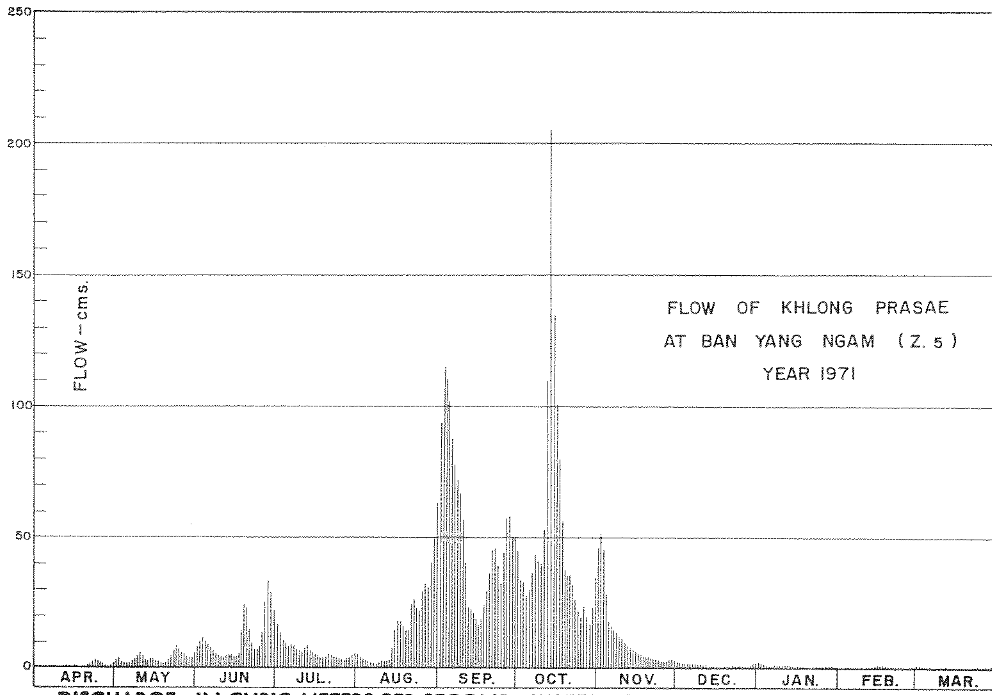
Overbank Flow Conditions: Overbank flow starts at elevation + 6.10 m. (A.D. measured by current meter.

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.82	1.61	2.19	3.23	1.72	5.90	4.67	5.10	1.32	1.22	0.80	0.77
2	.80	.53	.43	2.95	.59	6.82	.09	.05	.30	1.15	.80	.76
3	.78	.29	.54	.56	.48	7.01	.08	4.10	.29	.08	.80	.75
4	.77	.16	.42	.40	.42	6.71	3.79	3.31	.26	.04	.79	.75
5	.76	.14	.26	.32	.35	.45	.84	.01	.24	.00	.79	.74
6	0.76	1.27	2.04	2.21	1.32	6.21	4.16	2.93	1.22	0.98	0.78	0.74
7	.74	.49	1.85	.28	.27	5.98	.68	.84	.20	.95	.78	.73
8	.73	.66	.78	.19	.24	.85	.45	.75	.18	.94	.79	.73
9	.73	.82	.80	.08	.30	.68	.47	.60	.16	.92	.80	.73
10	.74	.96	.71	1.97	.36	.12	.54	.44	.14	.91	.82	.73
11	0.72	1.77	1.60	1.93	1.34	4.24	5.19	2.32	1.12	0.90	0.82	0.72
12	.72	.47	.68	2.09	.34	3.51	6.81	.22	.11	.89	.81	.72
13	.92	.51	.74	.30	.39	.48	7.69	.13	.09	.89	.92	.72
14	.81	.54	.71	1.96	2.23	.36	.39	.05	.08	.89	1.00	.72
15	.81	.47	.66	.81	.96	.09	6.87	1.96	.06	.88	.01	.72
16	0.93	1.36	1.75	1.71	3.14	3.06	6.45	1.88	1.05	0.87	0.95	0.73
17	.94	.30	2.03	.61	.07	.29	5.69	.81	.03	.87	.91	.72
18	.95	.28	.96	.55	.00	.58	4.88	.75	.02	.86	.88	.72
19	1.03	.22	3.56	.70	2.73	.85	.32	.71	.00	.85	.86	.72
20	.09	.23	.41	.77	.82	4.52	.16	.65	.00	.85	.85	.71
21	1.13	1.38	2.54	1.81	3.60	4.77	4.23	1.62	1.00	0.84	0.83	0.71
22	.30	.82	.14	.74	.72	.76	.05	.58	0.99	.84	.82	.71
23	.51	2.15	1.93	.61	.45	.30	3.60	.55	.99	.83	.81	.71
24	.44	.27	2.09	.58	.50	.04	.41	.51	.98	.83	.82	.70
25	.29	1.92	.53	.61	.89	.69	.21	.48	.97	.83	.81	.69
26	1.12	1.95	3.09	1.54	4.06	5.37	3.53	1.46	0.96	0.83	0.81	0.69
27	.06	.83	.78	.48	3.92	.42	.17	.44	.98	.83	.81	.69
28	.00	.65	4.12	.64	4.31	.12	2.93	.41	1.04	.82	.79	.69
29	.01	.55	3.85	.75	.73	4.95	3.09	.39	.07	.81	.78	.69
30	.39	.61	.44	.78	5.11	.98	.64	.36	.19	.81		.74
31	-	.94	-	.88	.44	-	4.44	-	.26	.80	-	.82
Mean	0.96	1.58	2.42	1.97	2.70	4.87	4.56	2.28	1.11	0.90	0.81	0.72
Max.	1.51	2.27	4.12	3.23	5.44	7.01	7.69	5.10	1.32	1.22	1.01	0.82
Min.	0.72	1.14	1.60	1.48	1.24	3.06	2.93	1.36	0.96	0.80	0.78	0.69

WATER YEAR 1971 : Max. 7.69 m. Min. 0.69 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.46	4.07	8.22	20	4.84	72	44	52	2.40	1.90	0.40	0.34
2	0.40	3.58	10	16	3.94	105	33	51	2.30	1.60	0.40	0.32
3	0.36	2.25	12	12	3.28	115	33	33	2.25	1.32	0.40	0.30
4	0.34	1.64	10	10	2.92	100	28	21	2.10	1.16	0.38	0.30
5	0.32	1.56	8.84	9.40	2.55	89	29	17	2.00	1.00	0.38	0.28
6	0.32	2.15	7.08	8.39	2.40	81	34	16	1.90	0.94	0.36	0.28
7	0.28	3.34	5.75	9.02	2.15	74	44	15	1.80	0.85	0.36	0.26
8	0.26	4.42	5.26	8.22	2.00	70	40	14	1.72	0.82	0.38	0.26
9	0.26	5.54	5.40	7.36	2.30	66	40	12	1.64	0.76	0.40	0.26
10	0.28	6.52	4.77	6.59	2.60	53	41	11	1.56	0.73	0.46	0.26
11	0.24	5.19	4.00	6.31	2.50	36	54	9.40	1.48	0.70	0.46	0.24
12	0.24	3.22	4.54	7.43	2.50	23	104	8.48	1.44	0.67	0.43	0.24
13	0.76	3.46	4.98	9.20	2.75	23	205	7.74	1.36	0.67	0.76	0.24
14	0.43	3.64	4.77	6.52	8.57	21	145	7.15	1.32	0.67	1.00	0.24
15	0.43	3.22	4.42	5.47	16	18	107	6.52	1.24	0.64	1.04	0.24
16	0.79	2.60	5.05	4.77	18	17	89	5.96	1.20	0.61	0.85	0.26
17	0.82	2.30	7.01	4.07	18	20	66	5.47	1.12	0.61	0.73	0.24
18	0.85	2.20	16	3.70	17	25	48	5.05	1.08	0.58	0.64	0.24
19	1.12	1.90	24	4.70	14	29	37	4.77	1.00	0.55	0.58	0.24
20	1.36	1.95	22	5.19	15	41	34	4.35	1.00	0.55	0.55	0.22
21	1.52	2.70	12	5.47	25	46	36	4.14	1.00	0.52	0.49	0.22
22	2.30	5.54	7.82	4.98	27	46	32	3.88	0.97	0.52	0.46	0.22
23	3.46	7.90	6.31	4.07	23	37	25	3.70	0.97	0.49	0.43	0.22
24	3.04	8.93	7.43	3.88	23	32	22	3.46	0.94	0.49	0.46	0.20
25	2.25	6.24	11	4.07	30	44	19	3.28	0.91	0.49	0.43	0.19
26	1.48	6.45	18	3.64	33	58	24	3.16	0.88	0.49	0.43	0.19
27	1.24	5.61	28	3.28	30	59	19	3.04	0.94	0.49	0.43	0.19
28	1.00	4.35	34	4.28	37	53	16	2.86	1.16	0.46	0.38	0.19
29	1.04	3.70	29	5.05	45	49	18	2.75	1.28	0.43	0.36	0.19
30	2.75	4.07	22	5.26	53	50	26	2.60	1.76	0.43	–	0.28
31	–	6.38	–	5.96	60	–	39	–	2.10	0.40	–	0.46
Total	30.40	126.62	349.65	214.28	529.30	1,552	1,531	339.76	44.82	22.54	14.83	7.81
Mean	1.01	4.08	11.6	6.91	17.1	51.7	49.4	11.3	1.44	0.73	0.51	0.25
Max.	3.46	8.93	34	20	60	115	205	52	2.40	1.90	1.04	0.46
Min.	0.24	1.56	4.00	3.28	2.00	17	16	2.60	0.88	0.40	0.36	0.19
Runoff – mcm.	2.627	10.940	30.210	18.514	45.732	134.093	132.278	29.355	3.872	1.947	1.281	0.675

WATER YEAR 1971 : Max. 205 Min. 0.19 Mean 13.0 Annual Runoff 411.524 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.13	06.00	7.76	232				

KHLONG TA NOT RIVER BASIN

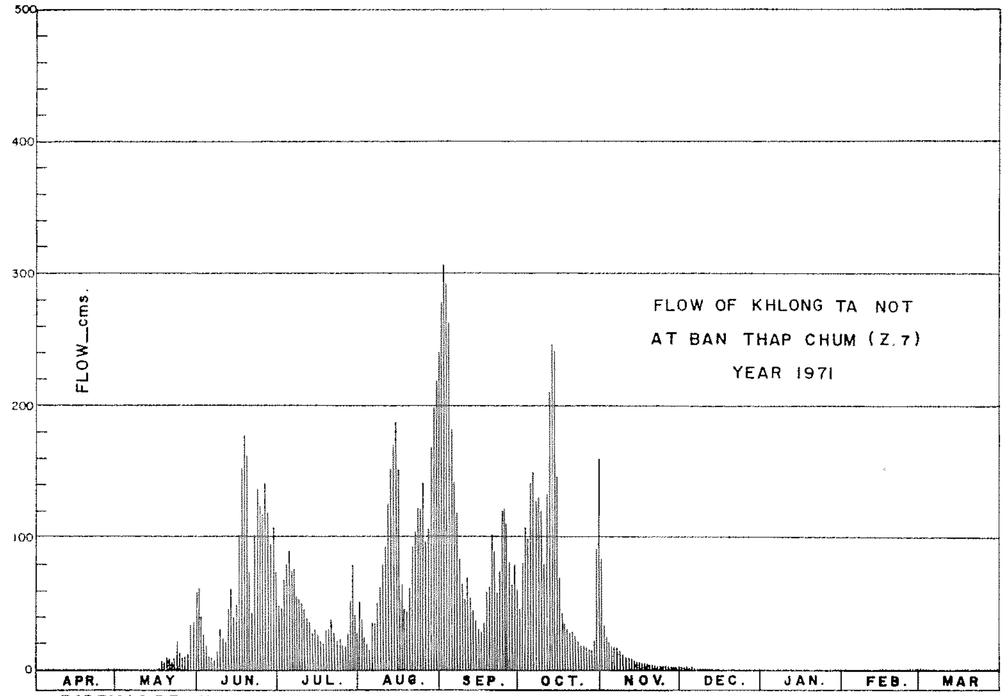
Khlong Ta Not and Ban Thap Chum, Chanthaburi (Z. 7)

Location:	Lat. 12^{0}-47'-56" N., Long. 101^{0}-54'-32" E., on right bank about 9 kilometers from the entrance of Nikhom Dong Thap and 14 kilometers upstream from Nong Khla market, Amphoe Tha Mai, Chanthaburi.
Drainage Area:	1,318 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 2.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	Along the measuring line
Elevation:	+ 8.953 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1965 to date
Rating Operation:	
Period of Rating:	1965-1974
Rated by Float:	-
Rated by Current Meter:	1965-1974
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.65	2.76	6.34	5.84	5.93	11.00	5.69	5.97	3.19	2.91	2.73	2.71
2	.64	.78	5.31	.75	.27	.31	6.93	.09	.18	.90	.72	.71
3	.64	.74	4.80	6.48	4.65	.08	7.61	4.87	.16	.88	.72	.70
4	.64	.79	.31	.87	.63	10.55	.40	.67	.14	.87	.72	.70
5	.63	.91	.03	7.14	.37	9.49	8.47	.46	.13	.87	.73	.69
6	2.62	2.94	3.81	6.66	5.42	8.37	8.64	4.49	3.12	2.86	2.73	2.68
7	.62	3.00	.67	.74	.36	7.76	.10	.48	.11	.85	.89	.67
8	.62	2.98	4.36	.02	6.03	6.89	.18	.30	.09	.84	.79	.66
9	.62	.95	5.20	.02	.53	.40	7.94	.11	.08	.84	.76	.67
10	.62	.90	4.87	5.91	7.12	5.98	6.74	3.99	.07	.83	.75	.66
11	2.62	2.84	4.58	5.71	7.31	6.54	8.16	3.90	3.06	2.82	2.73	2.66
12	.62	.86	5.78	.52	8.32	.06	8.89	.83	.04	.82	.73	.66
13	.64	.89	6.30	.38	9.01	5.70	10.47	.77	.02	.81	.74	.66
14	.62	.88	5.48	.05	.20	.42	.36	.71	.01	.80	.74	.66
15	.61	.89	.80	.21	.46	.14	8.47	.64	.00	.79	.74	.65
16	2.61	2.89	7.27	5.06	8.48	5.07	6.16	3.58	2.98	2.78	2.73	2.65
17	.61	.93	8.72	4.75	6.34	.33	5.60	.53	.98	.78	.73	.65
18	.61	3.79	9.27	.62	5.80	6.22	.32	.48	.97	.77	.74	.65
19	.61	.54	8.87	5.16	.72	.04	.15	.45	.96	.77	.72	.65
20	.62	4.00	6.27	.17	6.34	7.48	.03	.42	.95	.77	.72	.65
21	2.62	3.86	5.41	5.45	7.20	7.33	5.10	3.39	2.95	2.76	2.72	2.65
22	.62	.58	7.31	.12	.52	6.01	4.89	.37	.95	.76	.72	.64
23	.62	4.00	8.34	4.75	8.01	.63	.70	.35	.93	.75	.71	.65
24	.62	.76	.00	.82	7.97	7.95	.53	.32	.92	.75	.71	.65
25	.62	.14	7.86	.78	8.48	.94	.53	.30	.92	.74	.71	.65
26	2.64	3.97	8.48	4.55	7.31	7.34	4.48	3.27	2.91	2.74	2.71	2.66
27	.65	4.10	.08	.53	.42	6.58	.40	.26	.91	.74	.70	.66
28	.64	.23	7.16	5.76	8.95	.33	.34	.24	.91	.73	.71	.66
29	.64	5.26	.59	6.82	9.75	.79	5.04	.23	.91	.73	.71	.66
30	.65	.35	6.88	5.57	10.13	.10	8.15	.21	.96	.73		.68
31	–	6.14	–	.00	.42	–	.88	–	.95	.73	–	.68
Mean	2.63	3.54	6.34	5.55	7.24	7.23	6.75	3.86	3.01	2.80	2.73	2.66
Max.	2.65	6.14	9.27	7.14	10.42	11.31	10.47	5.97	3.19	2.91	2.89	2.71
Min.	2.61	2.74	3.67	4.53	4.37	5.07	4.34	3.21	2.91	2.73	2.70	2.64

WATER YEAR 1971 : Max. 11.31 m. Min. 2.01 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.28	64	49	51	282	44	53	2.43	0.75	0.19	0.13
2	0.04	0.34	34	46	33	306	83	29	2.36	0.70	0.16	0.13
3	0.04	0.22	23	68	20	289	107	24	2.22	0.64	0.16	0.10
4	0.04	0.37	15	81	20	252	100	20	2.08	0.61	0.16	0.10
5	0.03	0.75	10	91	15	188	142	17	2.01	0.61	0.19	0.09
6	0.02	0.90	8.10	74	37	138	149	17	1.94	0.58	0.19	0.08
7	0.02	1.21	6.70	77	35	113	127	17	1.87	0.55	0.67	0.07
8	0.02	1.10	15	54	54	82	130	14	1.74	0.52	0.37	0.06
9	0.02	0.95	31	54	69	65	121	12	1.68	0.52	0.28	0.07
10	0.02	0.70	24	51	90	53	77	10	1.62	0.49	0.25	0.06
11	0.02	0.52	19	45	97	70	129	9.00	1.56	0.46	0.19	0.06
12	0.02	0.58	47	39	136	55	210	8.30	1.44	0.46	0.19	0.06
13	0.04	0.67	62	36	166	44	246	7.70	1.32	0.43	0.22	0.06
14	0.02	0.64	38	28	174	37	239	7.10	1.26	0.40	0.22	0.06
15	0.01	0.67	47	32	187	30	142	6.40	1.20	0.37	0.22	0.05
16	0.01	0.67	95	28	142	28	58	5.80	1.10	0.34	0.19	0.05
17	0.01	0.85	153	22	64	35	41	5.30	1.10	0.34	0.19	0.05
18	0.01	7.90	178	19	47	60	34	4.80	1.05	0.31	0.22	0.05
19	0.01	5.40	160	30	45	55	30	4.50	1.00	0.31	0.16	0.05
20	0.02	10	62	31	64	103	28	4.20	0.95	0.31	0.16	0.05
21	0.02	8.60	37	38	93	97	29	3.92	0.95	0.28	0.16	0.05
22	0.02	5.80	97	29	104	54	25	3.76	0.95	0.28	0.16	0.04
23	0.02	10	137	22	123	73	21	3.60	0.85	0.25	0.13	0.05
24	0.02	22	123	23	122	121	18	3.36	0.80	0.25	0.13	0.05
25	0.02	12	117	23	142	121	18	3.20	0.80	0.22	0.13	0.05
26	0.04	9.84	142	18	97	98	17	2.99	0.75	0.22	0.13	0.06
27	0.05	11	126	18	101	71	16	2.92	0.75	0.22	0.10	0.06
28	0.04	13	92	46	163	63	15	2.78	0.75	0.19	0.13	0.06
29	0.04	33	107	80	202	79	28	2.71	0.75	0.19	0.13	0.06
30	0.05	35	82	41	225	56	129	2.57	1.00	0.19	–	0.08
31	–	58	–	27	243	–	160	–	0.95	0.19	–	0.08
Total	0.79	252.95	2,151.80	1,320	3,161	3,119	2,713	307.91	41.23	12.18	5.78	2.07
Mean	0.026	8.16	71.7	42.6	102	104	87.5	10.3	1.33	0.39	0.20	0.067
Max.	0.05	58	178	91	243	306	246	53	2.43	0.75	0.67	0.13
Min.	0.01	0.22	6.70	18	15	28	15	2.57	0.75	0.19	0.10	0.04
Runoff - mcm.	0.068	21.855	185.915	114.048	273.110	269.482	234.403	26.603	3.562	1.052	0.499	0.179

WATER YEAR 1971 : Max. 306 Min. 0.01 Mean 35.7 Annual Runoff 1,130.778 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 2	12.00	11.34	308				

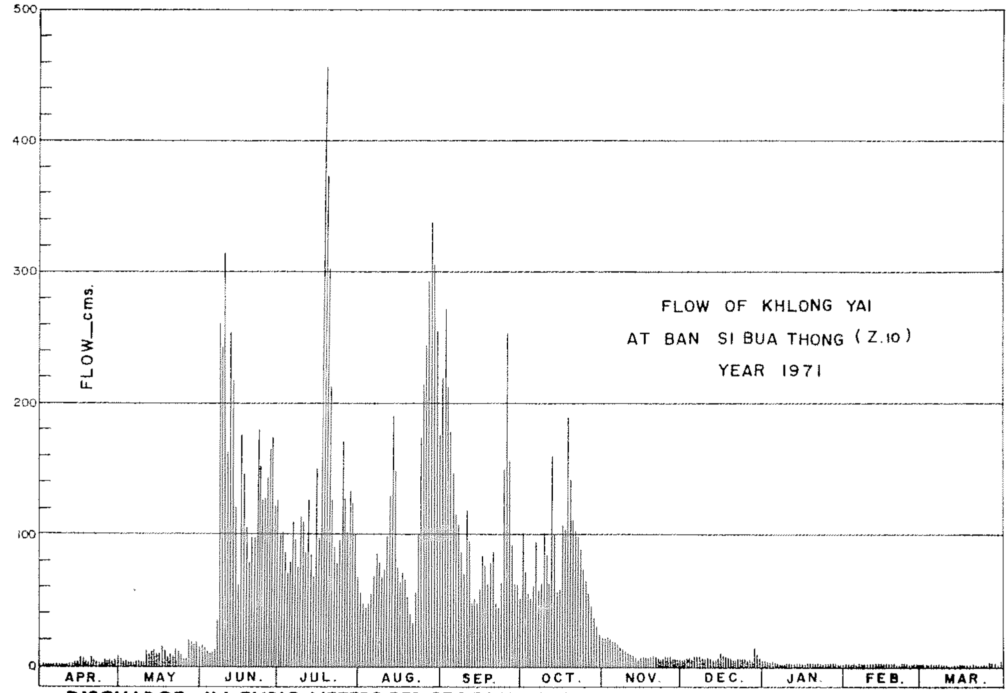
Khlong Yai River at Ban Si Bua Thong, Trat (Z. 10)

Location:	Lat. 12°-28'-28" N., Long. 102°-28'-52" E., on right bank at Rong Rian Ban Pong, Tambon Ban Si Buathong, Amphoe Khao Saming, Trat.
Drainage Area:	920 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	near staff gage site
Elevation:	+ 11.280 m. (A.D.)
Gage Reading Frequency:	24 time daily readings at 01.00-24.00 hours on April - October and 5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours in November - March.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5.24 readings.
Period of Available Gage Records:	1970 to date
Rating Operation:	
Period of Rating:	1972 to date
Rated by Float:	-
Rated by Current Meter:	1972 to date
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1973. 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, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.05	1.35	1.83	4.18	3.07	6.57	4.23	2.09	1.33	1.27	1.10	1.04
2	.04	.24	.79	.23	2.91	7.37	3.57	.13	.43	.26	.10	.02
3	.03	.32	.65	3.85	.80	5.88	.13	.04	.44	.24	.09	.01
4	.02	.26	.57	.50	.98	.65	.04	1.98	.38	.21	.08	.04
5	.02	.24	.63	.85	3.35	6.71	.39	.93	.53	.20	.07	.02
6	1.01	1.23	1.76	4.40	3.55	6.33	4.09	1.88	1.52	1.18	1.14	1.01
7	.01	.29	2.35	.06	.89	4.36	3.21	.79	.47	.16	.12	.00
8	.00	.27	7.18	3.61	.72	3.71	.37	.72	.42	.14	.09	0.99
9	.00	.26	6.89	4.49	.45	.49	4.24	.65	.37	.16	.08	.98
10	.03	.26	8.08	.39	.76	4.60	3.87	.58	.43	.13	.07	.98
11	1.06	1.70	5.44	3.89	4.34	3.79	3.34	1.54	1.42	1.11	1.06	0.97
12	.12	.57	7.09	4.74	.68	2.92	5.40	.47	.29	.18	.05	.97
13	.18	.69	6.38	3.60	5.96	3.04	4.26	.40	.27	.14	.04	1.00
14	.23	.69	4.51	.42	.48	2.90	3.16	.33	.47	.13	.14	.02
15	.32	.56	3.26	5.23	3.55	3.29	.26	.45	.62	.11	.11	.01
16	1.41	1.60	5.71	4.15	3.30	3.85	4.37	1.45	1.52	1.09	1.10	1.01
17	.34	.84	.01	.57	.52	.61	.27	.39	.48	.16	.08	0.99
18	.26	.65	4.49	7.68	.36	.28	5.92	.49	.41	.13	.07	.99
19	.19	.45	3.67	10.22	2.78	.73	.05	.54	.36	.11	.06	1.02
20	.42	.58	4.16	7.69	.44	.92	4.36	.46	.31	.10	.09	.00
21	1.29	1.54	3.87	4.63	2.73	2.88	4.31	1.38	1.44	1.08	1.17	0.98
22	.24	.73	4.87	3.81	3.50	.80	.16	.34	.42	.07	.15	.99
23	.20	.60	5.76	.66	4.70	3.52	3.92	.43	.41	.10	.10	.98
24	.25	.55	4.75	4.68	6.02	5.54	.60	.48	.37	.09	.08	1.03
25	.29	.36	.77	5.59	.65	7.06	.35	.46	.33	.08	.05	.05
26	1.24	1.36	5.01	4.73	7.16	4.76	3.10	1.42	1.35	1.07	1.10	1.20
27	.22	2.04	.49	.24	8.08	3.60	2.86	.39	.31	.11	.11	.17
28	.28	1.96	.64	.86	.45	.30	.56	.36	.82	.09	.08	.07
29	.38	.91	4.65	.60	7.55	.30	.41	.37	.54	.07	.05	.06
30	.46	.97	.74	3.61	6.81	2.98	.21	.33	.42	.06		.11
31	–	.82	–	.39	5.69	–	.08	–	.33	.05	–	.43
Mean	1.19	1.54	4.47	4.63	4.52	4.29	3.68	1.57	1.43	1.13	1.09	1.04
Max.	1.46	2.04	8.08	10.22	8.45	7.37	5.92	2.13	1.82	1.27	1.17	1.43
Min.	1.00	1.23	1.57	3.39	2.44	2.80	2.08	1.33	1.27	1.05	1.05	0.97

WATER YEAR 1971 : Max. 10.22 m. Min. 0.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.50	5.25	15	99	52	224	101	21	4.95	4.05	2.00	1.40
2	1.40	3.60	14	101	47	271	72	22	6.60	3.90	2.00	1.20
3	1.30	4.80	11	84	43	186	55	20	6.80	3.60	1.90	1.10
4	1.20	3.90	9.40	69	49	173	51	18	5.70	3.15	1.80	1.40
5	1.20	3.60	11	84	63	232	65	17	8.60	3.00	1.70	1.20
6	1.10	3.45	13	109	71	211	94	16	8.40	2.80	2.40	1.10
7	1.10	4.35	28	93	85	107	58	14	7.40	2.60	2.20	1.00
8	1.00	4.05	260	74	78	78	64	12	6.40	2.40	1.90	0.90
9	1.00	3.90	242	113	67	69	101	11	5.50	2.60	1.80	0.80
10	1.30	3.90	314	108	80	119	85	9.60	6.60	2.30	1.70	0.80
11	1.60	12	162	85	106	81	63	8.80	6.40	2.10	1.60	0.70
12	2.20	9.40	254	126	123	47	159	7.40	4.35	2.80	1.50	0.70
13	2.80	12	213	73	190	51	102	6.00	4.05	2.40	1.40	1.00
14	3.45	12	114	66	164	46	56	4.95	7.04	2.30	2.40	1.20
15	4.80	9.20	60	150	71	61	60	7.00	10	2.10	2.10	1.10
16	6.20	10	176	97	61	84	107	7.00	8.40	1.90	2.00	1.10
17	5.10	15	154	117	70	74	103	5.85	7.60	2.60	1.80	0.90
18	3.90	11	113	290	64	61	188	7.80	6.20	2.30	1.70	0.90
19	2.90	7.00	76	455	42	79	141	8.80	5.40	2.10	1.60	1.20
20	6.40	9.60	98	290	31	87	107	7.20	4.65	2.00	1.90	1.00
21	4.35	8.80	85	120	40	46	104	5.70	6.80	1.80	2.70	0.80
22	3.60	13	132	82	69	43	98	5.10	6.40	1.70	2.50	0.90
23	3.00	10	179	76	124	70	87	6.60	6.20	2.00	2.00	0.80
24	3.75	9.00	126	123	194	167	73	7.60	5.55	1.90	1.80	1.30
25	4.35	5.40	127	170	228	253	63	7.20	4.95	1.80	1.50	1.50
26	3.60	5.40	139	125	259	127	53	6.40	5.25	1.70	2.00	3.00
27	3.30	20	164	101	314	73	45	5.85	4.65	2.10	2.10	2.70
28	4.20	18	173	132	337	61	35	5.40	14	1.90	1.80	1.70
29	5.70	17	121	119	282	61	30	5.55	8.80	1.70	1.50	1.60
30	7.20	18	126	74	238	49	24	4.95	6.40	1.60	–	2.10
31	–	14	–	65	175	–	21	–	4.95	1.50	–	6.60
Total	94.50	286.60	3,709.40	3,870	3,817	3,291	2,465	291.75	205.35	72.70	55.30	43.70
Mean	3.15	9.24	124	125	123	110	79.5	9.72	6.62	2.34	1.91	1.41
Max.	7.20	20	314	455	337	271	188	22	14	4.05	2.70	6.60
Min.	1.00	3.45	9.40	65	31	43	21	4.95	4.05	1.50	1.50	0.70
Runoff - mcm.	8.165	24.762	320.492	334.368	329.789	284.342	212.976	25.207	17.742	6.281	4.778	3.776

WATER YEAR 1971 : Max. 455 Min. 0.70 Mean 49.7 Annual Runoff 1,572,679 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 19	06.00	10.44	471				

CHANTHABURI RIVER BASIN

Chanthaburi River at Ban Puk, Chanthaburi (Z. 13)

Location: Lat. 12°-45'-40" N., Long. 102°-18'-35" E., on left bank infront of Wat Puk, Ban Puk, Amphoe Makham, Chanthaburi.

Drainage Area: 671 sq.km.

Type of Gage: Water-Stage recorder

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

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

Location: Near Automatic gage building
Elevation: + 8.109 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1968 to date

Rating Operation:

Period of Rating: 1973 to date
Rated by Float: -
Rated by Current Meter: 1973 to date

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

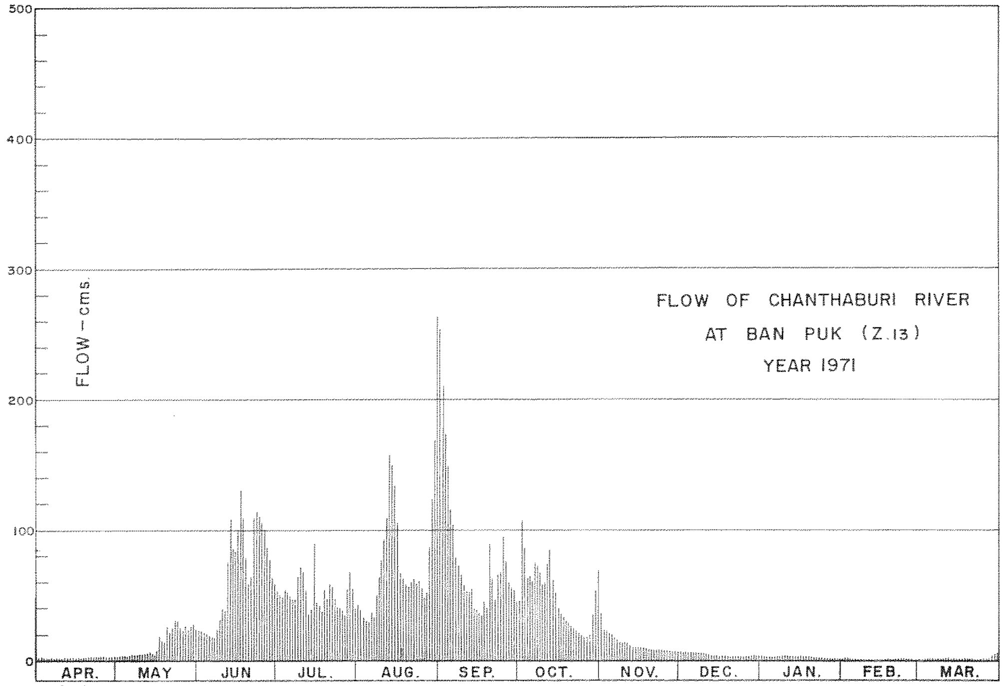
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1973. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.43	0.45	1.34	2.18	1.96	6.25	1.96	1.43	0.72	0.56	0.39	0.34
2	.41	.47	.34	.12	.78	5.21	3.44	.35	.71	.56	.39	.34
3	.40	.53	.33	.11	.63	4.54	.00	.33	.70	.56	.38	.34
4	.40	.57	.25	.24	.57	3.77	2.43	.25	.70	.56	.38	.32
5	.38	.53	.24	.18	.49	.59	.51	.19	.69	.56	.38	.32
6	0.37	0.58	1.21	2.11	1.79	3.30	2.35	1.15	0.68	0.56	0.38	0.31
7	.37	.59	.15	.04	.65	2.83	.72	.11	.67	.56	.37	.30
8	.36	.58	.46	1.99	2.12	.65	.68	.06	.67	.56	.37	.28
9	.35	.57	.62	2.67	.67	.47	.41	.03	.66	.56	.38	.32
10	.33	.57	.87	.61	.93	.29	.28	0.99	.65	.55	.39	.33
11	0.34	0.60	1.80	2.38	3.23	2.17	2.37	0.96	0.65	0.54	0.40	0.34
12	.37	.64	2.91	.15	.77	.18	3.01	.92	.64	.50	.40	.34
13	.38	.70	3.46	1.74	4.44	.22	2.53	.90	.63	.48	.41	.35
14	.46	.67	2.69	.84	.13	1.84	.33	.88	.62	.48	.41	.35
15	.50	.64	.63	2.09	3.77	.86	1.98	.87	.60	.48	.41	.35
16	0.50	0.75	3.37	1.98	2.90	1.78	1.83	0.86	0.60	0.47	0.41	0.34
17	.48	1.19	.93	.98	.52	.69	.72	.84	.60	.46	.40	.34
18	.46	.10	.33	.81	.41	.99	.63	.83	.60	.46	.40	.34
19	.50	.05	2.65	2.24	.31	.85	.58	.82	.60	.46	.39	.34
20	.54	.45	.52	.01	.28	3.10	.50	.79	.60	.45	.38	.33
21	0.54	1.26	2.56	2.52	2.39	2.36	1.45	0.78	0.60	0.44	0.37	0.32
22	.53	.39	3.52	.27	.43	.03	.39	.78	.59	.43	.37	.31
23	.52	.56	.58	1.96	.34	.52	.32	.78	.58	.42	.37	.30
24	.50	.58	.54	.89	.40	.54	.25	.78	.58	.42	.37	.32
25	.47	.38	.42	.87	.30	3.23	.20	.77	.57	.41	.36	.37
26	0.46	1.32	3.30	1.79	2.07	2.68	1.21	0.77	0.56	0.40	0.35	0.46
27	.46	.46	.06	.69	.25	.35	.25	.76	.56	.40	.35	.51
28	:46	.38	2.78	2.60	3.09	.24	.26	.76	.60	.40	.35	.58
29	.45	.43	.44	.46	4.35	.26	.88	.74	.64	.39	.34	.62
30	.44	.52	.29	.07	.99	.00	2.14	.72	.59	.39	-	.64
31	-	.39	-	1.86	6.40	-	.57	-	.56	.39	-	.64
Mean	0.44	0.96	2.45	2.11	2.78	2.73	2.02	0.94	0.63	0.48	0.38	0.38
Max.	0.54	1.58	3.93	2.67	6.40	6.25	3.44	1.43	0.72	0.56	0.41	0.64
Min.	0.33	0.45	1.15	1.69	1.49	1.69	1.20	0.72	0.56	0.39	0.34	0.28

WATER YEAR 1971 : Max. 6.40 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.30	2.50	23	52	44	252	44	26	7.40	4.20	1.90	1.40
2	2.10	2.70	23	50	37	192	106	23	7.20	4.20	1.90	1.40
3	2.00	3.60	23	49	32	161	85	23	7.00	4.20	1.80	1.40
4	2.00	4.40	20	55	30	122	62	20	7.00	4.20	1.80	1.20
5	1.80	3.60	20	52	28	113	65	19	7.00	4.20	1.80	1.20
6	1.70	4.60	19	49	38	99	59	17	6.60	4.20	1.80	1.10
7	1.70	4.80	17	47	33	78	74	16	6.40	4.20	1.70	1.00
8	1.60	4.60	27	45	50	71	72	15	6.40	4.20	1.70	0.80
9	1.50	4.40	32	72	72	64	61	14	6.20	4.20	1.80	1.20
10	1.30	4.40	40	69	82	57	56	14	6.00	4.00	1.90	1.30
11	1.40	5.00	38	60	95	52	60	12	6.00	3.80	2.00	1.40
12	1.70	5.80	81	51	122	52	85	11	5.80	3.00	2.00	1.40
13	1.80	7.00	107	36	156	54	66	11	5.60	2.80	2.10	1.50
14	2.60	6.40	73	39	140	39	58	11	5.40	2.80	2.10	1.50
15	3.00	5.80	70	89	122	40	44	10	5.00	2.80	2.10	1.50
16	3.00	8.00	102	44	81	37	39	10	5.00	2.70	2.10	1.40
17	2.80	19	130	44	66	34	35	9.80	5.00	2.60	2.00	1.40
18	2.60	16	100	38	61	45	32	9.60	5.00	2.60	2.00	1.40
19	3.00	14	71	55	57	40	30	9.40	5.00	2.60	1.90	1.40
20	3.80	26	56	45	56	89	28	8.80	5.00	2.50	1.80	1.30
21	3.80	21	67	59	61	56	26	8.60	5.00	2.40	1.70	1.20
22	3.60	25	110	56	62	46	25	8.60	4.80	2.30	1.70	1.10
23	3.40	30	113	44	59	66	23	8.60	4.60	2.20	1.70	1.00
24	3.00	30	111	41	61	67	20	8.60	4.60	2.20	1.70	1.20
25	2.70	24	105	40	57	95	19	8.40	4.40	2.10	1.60	1.70
26	2.60	23	99	38	48	72	19	8.40	4.20	2.00	1.50	2.60
27	2.60	27	88	34	55	59	20	8.20	4.20	2.00	1.50	3.20
28	2.60	24	76	69	89	55	21	8.20	5.00	2.00	1.50	4.60
29	2.50	26	63	63	151	55	41	7.80	5.80	1.90	1.40	5.40
30	2.40	29	57	48	183	45	51	7.40	4.80	1.90	–	5.80
31	–	25	–	40	260	–	68	–	4.20	1.90	–	5.80
Total	72.90	436.60	1,971	1,573	2,488	2,310	1,494	372.40	171.60	92.90	52.50	59.80
Mean	2.36	14.1	54.9	50.7	80.2	77.0	48.2	12.4	5.53	3.00	1.77	1.93
Max.	3.80	30	130	72	260	252	106	26	7.40	4.20	2.10	5.80
Min.	1.30	2.50	17	34	28	34	19	7.40	4.20	1.90	1.40	0.80
Runoff - mcm.	6.298	37.722	142.204	135.907	214.963	199.584	129.082	32.175	14.826	8.026	4.536	5.167

WATER YEAR 1971 : Max. .260 Min. 0.80 Mean 30.3 Annual Runoff 957.718 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.31	24.00	6.57	269				

MAE KLONG RIVER BASIN

Khwae Yai at Kaeng Riang, Kanchanaburi (K. 6)

Location: Lat. 14^{0}–25'–43" N., Long. 99^{0}–07'–04" E., on left bank about 200 meters downstream from Lam Thom cave and about 9 kilometers upstream from Erawan Fall, Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,010 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 54.500 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. No. 2

Location: Near the rain gage infront of K6 station office.
Elevation: + 72.812 m. (M.S.L.)

Gage Reading Frequency: 16 time daily readings at 03.00, 06.00–18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1952–1972.

Rating Operation:

Period of Rating: 1952–1971
Rated by Float: –
Rated by Current Meter: 1952–1971

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

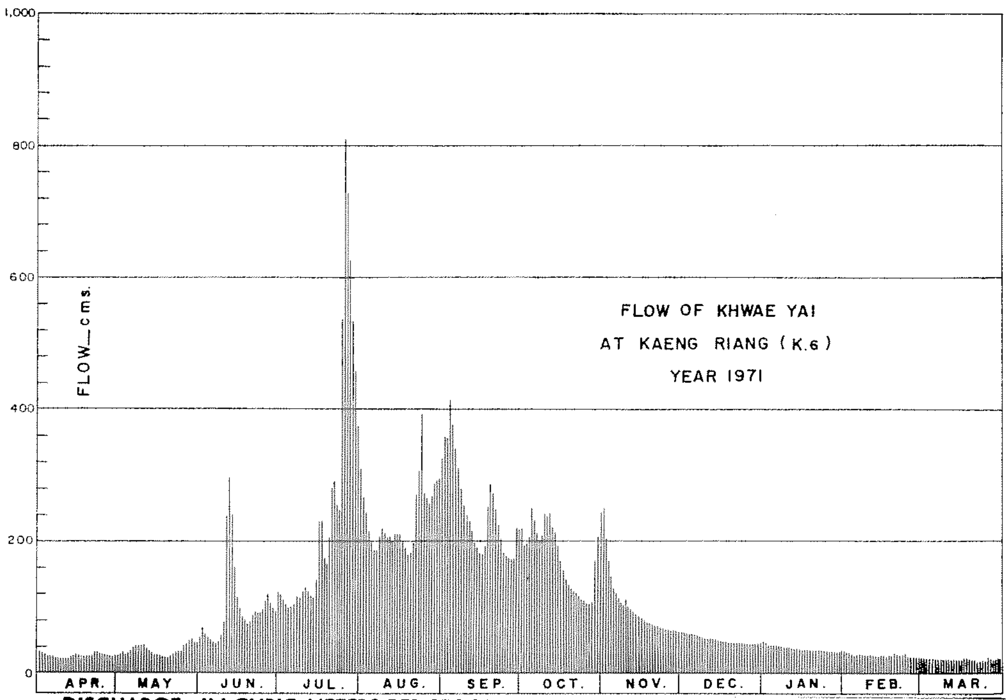
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage–discharge relationship used is defined by discharge measurement made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.02	55.92	56.32	57.16	58.94	59.01	58.09	58.38	56.44	56.24	55.99	55.85
2	55.96	56.00	.51	.11	.57	.26	57.85	.11	.42	.22	.99	.85
3	.93	.00	.40	.03	.30	.23	.89	57.69	.42	.19	.98	.84
4	.91	55.95	.32	56.96	.07	.65	.99	.43	.41	.17	.97	.84
5	.88	.98	.28	.89	57.90	.33	58.36	.21	.39	.16	.96	.83
6	55.87	56.04	56.22	56.94	57.77	59.13	58.23	57.15	56.38	56.15	55.96	55.82
7	.86	.12	.18	.97	.78	58.89	.01	.06	.37	.14	.95	.82
8	.85	.15	.24	57.10	.99	.62	57.93	56.99	.36	.13	.94	.82
9	.84	.14	.33	.06	58.09	.42	58.01	.95	.35	.12	.94	.81
10	.83	.18	.68	.15	.05	.29	.30	57.04	.33	.11	.93	.81
11	55.83	56.18	57.90	57.22	57.98	58.21	58.25	50.93	56.32	56.10	55.93	55.81
12	.85	.09	58.76	.17	58.00	.13	.31	.85	.31	.10	.92	.80
13	.89	.01	.35	.12	57.92	57.95	.07	.82	.30	.09	.92	.82
14	.92	55.96	57.72	.06	58.03	.83	.04	.79	.28	.08	.91	.80
15	.94	.93	.17	.23	.00	.74	57.81	.74	.27	.08	.91	.80
16	55.91	55.93	56.93	58.18	58.02	57.71	57.60	56.70	56.26	56.07	55.91	55.81
17	.89	.90	.78	.22	57.91	.81	.45	.66	.25	.06	.90	.85
18	.88	.88	.67	57.72	.81	58.21	.35	.63	.25	.06	.90	.84
19	.88	.89	.61	.51	.71	.66	.27	.61	.24	.05	.92	.81
20	.90	.88	.68	.88	.79	.67	.21	.58	.23	.05	.92	.79
21	55.91	55.88	56.78	58.63	57.90	58.37	57.18	56.56	56.23	56.05	55.94	55.78
22	.99	.93	.85	.71	58.51	.25	.14	.54	.22	.04	.92	.77
23	56.00	.96	.80	.40	.84	.06	.08	.53	.21	.04	.92	.78
24	55.95	56.02	.81	.32	.72	57.79	.04	.51	.21	.03	.97	.78
25	.94	.02	.87	60.87	.54	.71	56.98	.50	.21	.02	.92	.78
26	55.93	56.16	57.03	62.14	58.51	57.67	56.95	56.48	56.20	56.02	55.89	55.89
27	.90	.20	.12	61.61	.41	.64	.97	.47	.19	.01	.87	.81
28	.87	.27	56.98	60.92	.53	.66	57.01	.47	.19	.01	.86	.79
29	.88	.33	.88	.53	.69	58.10	.58	.47	.18	.00	.86	.82
30	.93	.22	.85	59.91	.73	.08	58.00	.45	.18	.00	–	.84
31	–	.19	–	.38	.73	–	.30	–	.18	.01	–	.83
Mean	55.87	56.04	56.86	58.30	58.31	58.50	57.69	56.87	56.28	56.08	55.92	55.81
Max.	56.02	56.33	58.76	62.14	58.94	59.65	58.36	58.38	56.44	56.24	55.99	55.89
Min.	55.83	55.88	56.18	56.89	57.71	57.64	56.95	56.45	56.18	56.00	55.86	55.77

WATER YEAR 1971 : Max. 62.14 m. Min. 55.77 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33	27	53	124	320	328	219	253	62	48	31	23
2	30	32	68	119	275	361	193	221	61	46	31	23
3	28	32	59	111	243	357	197	177	61	44	31	22
4	27	29	53	104	217	413	207	151	60	43	30	22
5	25	31	51	98	198	370	250	129	58	42	30	22
6	24	34	46	103	185	343	235	123	58	41	30	21
7	24	39	44	105	186	314	210	114	57	41	29	21
8	23	41	48	118	208	281	201	107	56	40	28	21
9	22	41	54	114	219	257	210	103	55	39	28	21
10	22	44	81	123	214	242	243	112	54	39	28	21
11	22	44	198	130	207	232	237	101	53	38	28	21
12	23	37	298	125	209	223	244	95	53	38	27	20
13	25	33	249	120	200	203	217	93	52	37	27	21
14	27	30	180	114	212	191	213	90	51	37	27	20
15	28	28	125	131	209	182	189	86	50	37	27	20
16	27	28	102	229	211	179	168	83	49	36	27	21
17	25	26	89	233	199	189	153	80	48	36	26	23
18	25	25	81	180	189	232	143	77	48	36	26	22
19	25	25	76	159	179	286	135	76	48	35	27	21
20	26	25	81	196	187	287	129	73	47	35	30	19
21	27	25	89	283	198	251	126	72	47	35	28	19
22	31	28	95	292	268	237	122	70	46	34	27	18
23	32	30	91	255	308	216	116	69	46	34	27	19
24	29	33	92	245	293	186	112	68	46	34	30	19
25	28	33	97	593	272	179	106	67	46	33	27	19
26	28	42	111	809	268	175	103	65	45	33	25	25
27	26	45	120	715	256	172	105	65	44	33	24	21
28	24	50	106	601	271	174	109	65	44	33	24	19
29	25	54	97	539	290	220	166	65	44	32	24	21
30	28	46	95	449	295	218	209	63	44	32	–	22
31	–	44	–	376	295	–	243	–	44	33	–	22
Total	789	1,081	3,029	7,893	7,281	7,499	5,512	3,013	1,577	1,154	804	649
Mean	26.3	34.8	101	254	235	250	178	100	50.8	37.2	27.7	20.9
Max.	33	54	298	809	320	413	250	253	62	48	31	25
Min.	22	25	44	98	179	172	103	63	44	32	24	18
Runoff – mcm.	68.170	93.398	261.706	681.955	629.078	647.914	476.237	260.323	136.253	99.705	69.465	56.074

WATER YEAR 1971 : Max. 809 Min. 18 Mean 110 Annual Runoff 3,480.278 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 26	18.00	62.26	832				

MAE KLONG RIVER BASIN

Khwae Noi at Wang Pho, Kanchanaburi (K. 9)

Location: Lat. 14^{0}-06'-56" N., Long. 99^{0}-08'-20" E., on right bank opposite the Wang Pho railway station, Amphoe Sai Yok, Kanchanaburi.

Drainage Area: 6,902 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 33.00 m. (M.S.L.)

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

Location: on left bank north of the Staff gage line about 30 meters.
Elevation: + 54.582 m. (M.S.L.)

Gage Reading Frequency: 6-time daily reading at 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours on April, December, March, 8-time daily reading at 01.00, 06.00, 19.00, 12.00, 15.00, 18.00, 21.00 and 24.00 hours on May - November.

Basis of Mean Daily Gage Height: Arithmetic mean of 6 and 8 readings.

Period of Available Gage Records: 1963-1974

Rating Operation:

Period of Rating: 1965-1974
Rated by Float: -
Rated by Current Meter: 1965-1974

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

Overbank Flow Conditions: No overbank flow.

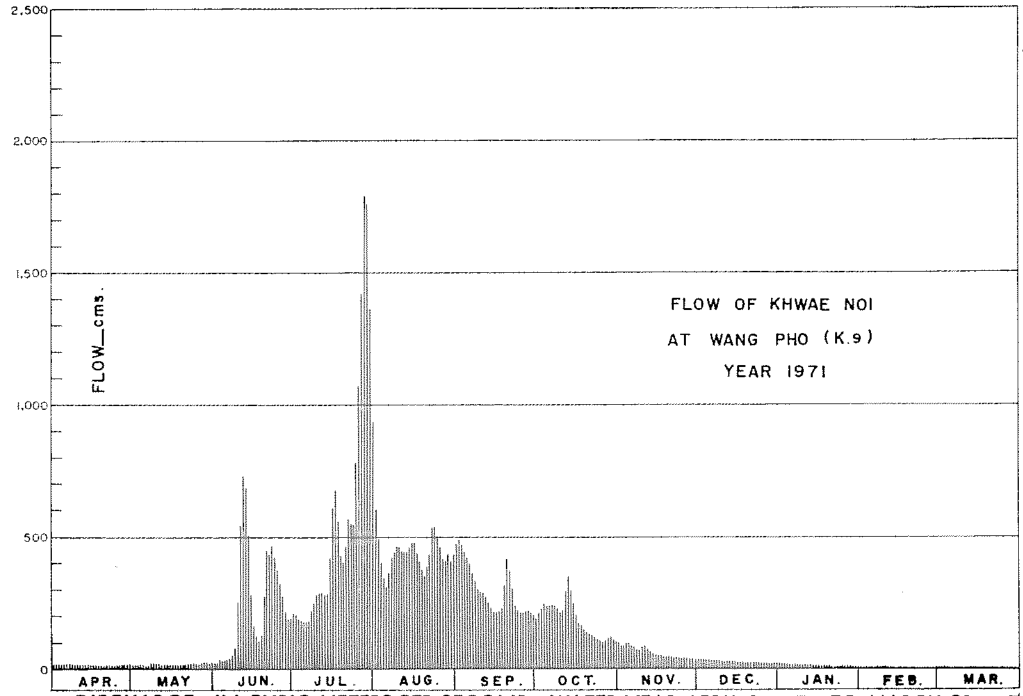
General Description: Records fair. The data presented is made by discharge measurements during 1962-1964. No Stage diversions for irrigation above gage site. No adjustment made for virgin flow.

Remarks: No records on August 7-18, 1971. * Estimated by used flow at K.10.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.01	33.88	34.20	37.18	41.42	39.55	35.92	35.72	34.72	34.38	34.09	33.92
2	33.97	.94	.36	.03	40.47	.75	37.13	.60	.70	.34	.08	.92
3	.93	.97	.42	36.89	39.46	.64	.40	.58	.68	.33	.08	.91
4	.91	.93	.29	.82	38.86	.37	.58	.62	.66	.31	.06	.91
5	.89	.94	.30	.76	.43	.23	.51	.78	.64	.30	.06	.90
6	33.87	33.99	34.46	36.78	38.16	39.10	37.48	35.60	34.63	34.29	34.05	33.90
7	.87	34.01	.58	.74		38.87	.50	.44	.62	.27	.04	.89
8	.86	.18	.79	.96		.52	.55	.34	.61	.26	.05	.89
9	.86	.17	35.35	37.42		.30	.46	.31	.59	.25	.05	.89
10	.87	.06	36.48	.90		.08	.26	.46	.57	.25	.04	.89
11	33.89	34.02	40.13	37.94		38.07	37.21	35.68	34.55	34.23	34.04	33.89
12	.87	.01	41.50	38.05		37.81	38.12	.44	.53	.22	.03	.88
13	.86	33.95	.13	37.93		.53	.56	.25	.52	.21	.03	.88
14	.86	.92	39.65	.82		.41	.04	.20	.51	.20	.04	.87
15	.96	.90	37.93	38.77		.29	37.48	.41	.48	.19	.04	.87
16	33.90	33.90	36.82	40.73		37.15	37.09	35.08	34.47	34.18	34.04	33.86
17	.85	.88	.23	41.14		.23	36.86	.04	.46	.17	.03	.88
18	.83	.86	35.74	40.13		.26	.64	.00	.45	.16	.02	.92
19	.83	.86	36.02	39.28	38.77	.98	.50	34.97	.44	.16	.01	.91
20	.89	.85	38.57	38.98	38.60	39.12	.34	34.94	.43	.16	.04	.88
21	33.93	33.86	39.34	39.56	38.67	38.84	36.30	34.91	34.42	34.15	34.03	33.88
22	.97	.90	.24	40.38	39.12	.14	.21	.88	.41	.15	.01	.87
23	34.01	.94	.51	.17	40.05	37.67	.14	.86	.40	.14	.00	.86
24	.01	34.02	.30	.24	.17	.32	35.98	.84	.39	.13	33.97	.88
25	33.98	.04	38.90	42.49	39.73	.21	.87	.82	.38	.12	.96	.88
26	33.95	34.06	38.38	45.07	39.33	37.14	35.81	34.80	34.37	34.12	33.95	34.07
27	.91	.18	37.89	46.62	.12	.22	.82	.77	.36	.11	.94	33.89
28	.89	.15	.35	47.13	.08	.25	.90	.76	.35	.11	.95	.86
29	.88	.14	36.97	46.92	.27	.21	36.14	.75	.34	.10	.93	.87
30	.89	.15	37.00	45.89	.01	.10	.02	.74	.34	.10	-	.87
31	-	.14	-	43.56	.36	-	35.89	-	.39	.09	-	.84
Mean	33.91	33.99	37.16	39.98		38.08	36.86	35.18	34.50	34.20	34.02	33.89
Max.	34.01	34.18	41.50	47.13	41.42	39.75	38.56	35.78	34.72	34.38	34.09	34.07
Min.	33.83	33.85	34.20	36.74	38.16	37.10	35.81	34.74	34.34	34.09	33.93	33.84

WATER YEAR 1971 : Max. 47.13 m. Min. 33.84 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	14	24	215	719	470	192	101	44	30	21	16
2	17	16	29	202	584	494	211	94	43	29	20	16
3	16	17	32	189	459	481	235	93	42	28	20	15
4	15	16	27	184	387	448	251	95	41	27	20	15
5	15	16	27	179	336	432	245	106	41	27	20	15
6	14	18	33	180	306	416	242	94	40	27	19	15
7	14	18	38	177	* 412	388	244	84	40	26	19	15
8	14	23	47	195	* 425	346	248	78	39	26	19	15
9	14	23	79	237	* 458	320	240	77	39	25	19	15
10	14	20	156	280	* 472	298	222	86	38	25	19	15
11	15	19	540	284	* 462	297	218	99	37	25	19	15
12	14	18	731	295	* 448	272	302	84	36	25	19	14
13	14	16	676	283	* 445	247	351	73	36	24	19	14
14	14	16	482	273	* 453	236	294	70	35	24	19	14
15	17	15	283	376	* 491	225	242	66	34	24	19	14
16	15	15	184	620	* 486	212	207	63	34	23	19	14
17	13	14	137	678	* 460	220	187	60	33	23	19	14
18	13	14	103	540	* 432	222	169	58	33	23	19	16
19	13	14	122	438	376	288	158	56	33	23	18	15
20	15	13	352	402	356	418	145	55	32	23	19	14
21	16	14	445	471	364	385	142	53	32	22	19	14
22	17	15	433	571	418	304	136	52	31	22	18	14
23	18	16	465	544	530	259	131	51	31	22	18	14
24	18	19	440	553	544	228	120	50	31	22	17	14
25	17	19	392	886	492	218	112	49	30	22	17	14
26	16	20	330	1,347	44	212	108	48	30	22	16	20
27	15	23	279	1,672	418	219	108	46	29	21	16	15
28	15	22	230	1,790	414	221	114	46	29	21	16	14
29	14	22	196	1.741	436	218	131	45	29	21	16	14
30	15	22	199	1,515	405	208	122	45	29	21	–	14
31	–	22	–	1,067	447	–	113	–	31	21	–	13
Total	455	549	7,511	18,384	13,859	9,202	5,940	2,077	1,082	744	538	456
Mean	15.2	17.7	250	593	447	307	192	69.2	34.9	24.0	18.5	14.7
Max.	18	23	731	1,790	719	494	351	106	44	30	21	20
Min.	13	13	24	177	306	208	108	45	29	21	16	13
Runoff - mcm.	39.312	47.434	648.950	1,588.378	1,197.418	795.053	513.216	179.453	93.485	64.282	46.483	39.398

WATER YEAR 1971 : Max. 1;790 Min. 13 Mean 166 Annual Runoff 5,252.861 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 28	18.00	47.25	1,819				

Khwae Noi at Ban Lum Sum, Kanchanaburi (K.10)

Location: Lat. 14^{0}–05'–40" N., Long. 99^{0}–10'–28" E., on left bank about 100 meters upstream from Ban Lum Sum railway station, Amphoe Sai Yok, Kanchanaburi.

Drainage Area: 7,008 sq.km.

Type of Gage: Water–Stage recorder

Zero Gage at Bottom at: + 30.40 m. (M.S.L.)

Bench Mark: B.M. – H.S.

Location: Near the gage site
Elevation: + 52.057 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: 1965 to date

Rating Operation:

Period of Rating: 1965 to date
Rated by Float: –
Rated by Current Meter: 1965 to date

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

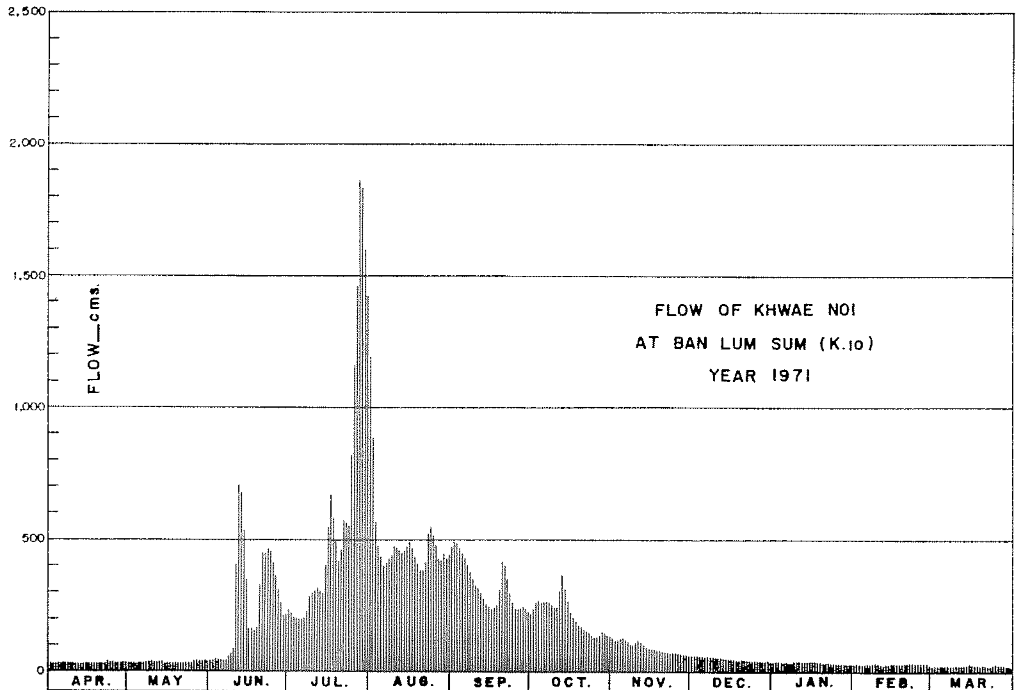
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31.22	31.12	31.35	34.49	39.84	36.95	34.24	33.00	31.94	31.60	31.31	31.16
2	.19	.17	.51	.35	38.48	37.12	.34	32.88	.91	.57	.30	.16
3	.16	.21	.61	.18	37.63	.05	.68	.82	.89	.54	.30	.16
4	.14	.17	.49	.14	37.00	36.78	.92	.94	.88	.52	.29	.15
5	.13	.17	.48	.07	36.55	.64	.84	33.02	.86	.52	.28	.14
6	31.11	31.21	31.61	34.05	36.24	36.50	34.78	32.83	31.85	31.50	31.28	31.14
7	.11	.23	.71	.01	.38	.28	.83	.69	.83	.49	.27	.13
8	.10	.37	.86	.21	.51	35.93	.83	.61	.82	.48	.26	.13
9	.10	.37	32.47	.75	.79	.67	.79	.56	.81	.47	.25	.13
10	.10	.30	33.43	35.20	.98	.45	.58	.68	.79	.46	.25	.13
11	31.11	31.25	36.98	35.29	36.88	35.40	34.51	32.91	31.77	31.45	31.24	31.13
12	.10	.26	38.92	.39	.74	.19	35.36	32.72	.75	.44	.23	.13
13	.10	.20	.72	.30	.71	34.92	.90	.51	.73	.43	.23	.12
14	.10	.17	37.35	.18	.79	.73	.47	.42	.72	.42	.23	.12
15	.13	.14	35.67	.93	.97	.61	34.85	.34	.71	.41	.24	.11
16	31.12	31.14	34.42	38.17	37.10	34.46	34.43	32.32	31.69	31.41	31.24	31.10
17	.10	.12	33.69	.66	36.86	.52	.14	.26	.69	.40	.23	.12
18	.08	.11	.30	37.74	.58	.56	33.92	.22	.68	.39	.22	.16
19	.08	.11	.39	36.82	.29	35.07	.75	.19	.66	.38	.23	.11
20	.10	.10	35.67	.42	.04	36.36	.63	.15	.65	.37	.24	.13
21	31.16	31.11	36.77	36.88	36.06	36.28	33.56	32.13	31.63	31.37	31.26	31.10
22	.19	.14	.64	37.79	.41	35.55	.53	.10	.62	.37	.24	.10
23	.24	.18	.93	.68	37.38	35.06	.45	.08	.61	.36	.23	.09
24	.25	.25	.78	.63	.62	34.69	.29	.06	.60	.35	.21	.10
25	.22	.27	.39	39.79	.20	34.55	.17	.03	.59	.35	.20	.13
26	31.20	31.29	35.88	42.33	36.78	34.50	33.09	32.01	31.58	31.34	31.19	31.26
27	.18	.38	.34	43.82	.52	34.54	.09	31.99	.58	.33	.18	.13
28	.13	.36	34.78	44.74	.43	.59	.13	.98	.57	.33	.17	.10
29	.13	.34	.32	.62	.66	.54	.39	.97	.56	.32	.16	.10
30	.14	.35	.27	43.69	.44	.39	.32	.96	.55	.32	–	.12
31	–	.34	–	41.89	.71	–	.18	–	.58	.31	–	.16
Mean	31.14	31.22	35.53	37.39	36.89	35.36	34.16	32.41	31.71	31.41	31.24	31.13
Max.	31.25	31.38	38.92	44.74	39.84	37.12	35.90	33.02	31.94	31.60	31.31	31.26
Min.	31.08	31.10	31.35	34.01	36.04	34.39	33.09	31.96	31.55	31.31	31.16	31.09

WATER YEAR 1971 : Max. 44.74 m. Min. 31.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	21	30	233	842	469	213	124	60	40	28	22
2	24	23	36	222	650	488	221	117	59	39	28	22
3	22	24	41	208	547	480	248	113	58	38	28	22
4	22	23	36	205	474	452	268	120	57	37	27	22
5	21	23	35	199	429	438	261	125	56	37	27	22
6	20	24	41	198	398	424	256	114	55	36	27	22
7	20	25	47	194	412	402	260	105	54	36	27	21
8	20	31	56	210	425	367	260	101	53	35	26	21
9	20	31	92	254	453	341	257	98	52	35	26	21
10	20	28	150	294	472	319	240	105	52	34	26	21
11	20	26	472	303	462	314	235	119	50	34	26	21
12	20	26	708	313	448	293	310	107	49	34	25	21
13	20	24	608	314	445	268	364	95	48	33	25	21
14	20	29	514	292	453	252	321	89	47	33	25	21
15	21	22	341	367	471	243	362	84	46	32	26	20
16	21	22	228	612	486	231	228	83	45	32	26	20
17	20	21	169	672	460	236	205	80	45	32	25	21
18	19	20	142	561	432	239	188	77	45	32	25	22
19	19	20	147	456	403	281	174	75	44	81	25	20
20	20	20	341	416	378	410	164	73	43	31	26	21
21	22	20	451	462	380	402	159	72	42	31	26	20
22	33	22	440	567	415	332	157	70	41	31	26	20
23	26	23	467	554	518	280	152	69	41	30	25	20
24	26	26	452	548	546	249	141	68	40	30	24	20
25	25	27	413	835	496	238	134	66	40	30	24	21
26	24	28	362	1,404	452	234	129	65	39	30	24	26
27	23	31	308	1,632	426	237	129	63	39	29	23	21
28	21	30	256	1,859	417	241	132	63	39	29	23	20
29	21	30	220	1,827	440	237	147	62	38	29	22	20
30	22	30	216	1,601	418	225	143	62	38	29	–	21
31	–	30	–	1,210	445	–	135	–	39	28	–	22
Total	657	780	7,891	19,022	14,493	9,622	6,493	2,664	1,454	1,017	741	655
Mean	21.9	25.2	263	613	468	334	209	88.8	46.9	32.8	25.5	21.1
Max.	33	31	708	1,859	842	488	364	125	60	40	28	26
Min.	19	20	30	194	378	225	129	62	38	28	22	20
Runoff - mcm.	567.65	67.392	681.782	1,643.501	1,252.195	831.34	560.995	230.170	125.626	87.869	64.022	56.592

WATER YEAR 1971 : Max. 1,859 Min. 19 Mean 179 Annual Runoff 5,658.250 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.28	19.00	44.87	1,896				

Mae Klong River at Ban Wang Khanai, Kanchanaburi (K.11)

Location: Lat. 13°-56'-55" N., Long. 99°-38'-42" E., on left bank about 3 kilometers downstream from district office of Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 26,449 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 11.93 m. (M.S.L.)

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

Location: Along the gage site.
Elevation: BM1 +22.097 m. (M.S.L.) BM2 +22.224 m. (M.S.L.

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

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

Period of Available Gage Records: 1965 to date

Rating Operation:

Period of Rating: 1965-1970, 1972 to date.
Rated by Float: -
Rated by Current Meter: 1965-1970, 1972 to date.

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

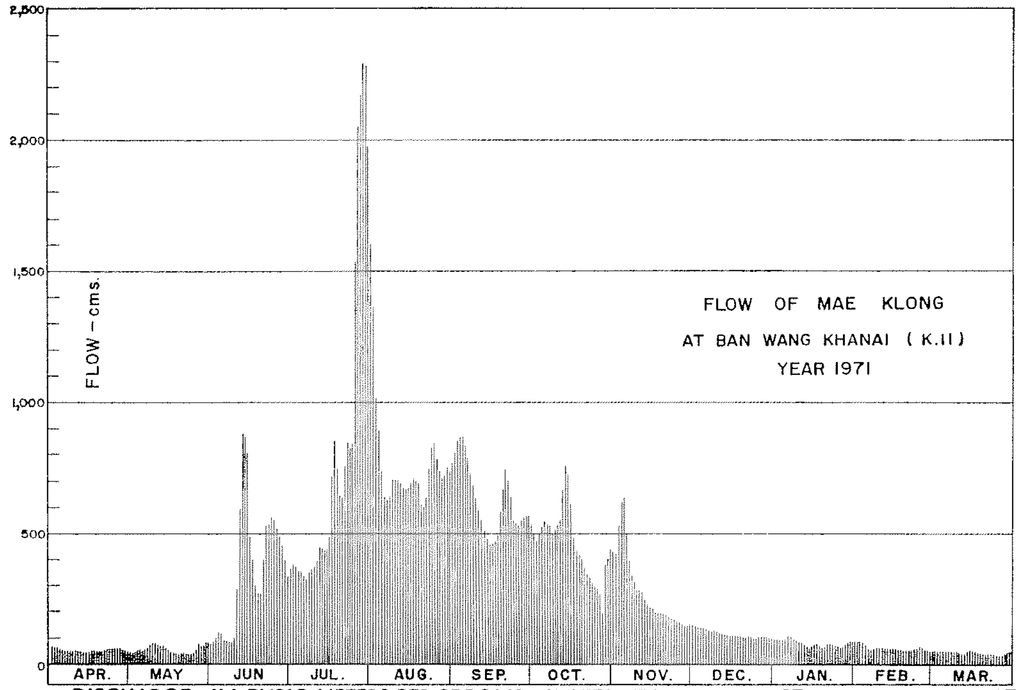
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage discharge relationship used is defined by discharge measurements made during 1972. Flow regulated by Vachiralongkorn Diversion Dam for irrigation of about 419,520 hectares above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.53	12.37	12.68	14.22	18.42	15.87	14.98	14.57	13.11	12.78	12.69	12.34
2	.51	.38	.74	.36	17.35	16.02	.87	.54	.10	.79	.71	.34
3	.49	.38	.79	.35	16.64	.15	.75	.82	.10	.80	.72	.34
4	.47	.49	.96	.23	.16	.19	.96	15.31	.08	.76	.68	.38
5	.45	.50	.91	.27	15.74	.21	15.01	.44	.06	.72	.63	.38
6	12.39	12.43	12.74	14.17	15.43	16.02	15.09	14.98	13.04	12.84	12.53	12.37
7	.34	.53	.75	.02	.37	15.89	.01	.46	.01	.86	.46	.35
8	.39	.60	.75	.13	.41	.75	.02	.20	12.98	.77	.46	.34
9	.41	.62	.66	.28	.66	.55	14.81	.11	13.01	.70	.56	.33
10	.42	.70	.99	.34	.64	.36	.99	13.85	.01	.70	.55	.35
11	12.43	12.66	13.42	14.53	15.67	15.13	15.06	13.91	12.95	12.75	12.46	12.34
12	.46	.56	15.00	.68	.63	.09	.07	.90	.95	.78	.47	.32
13	.34	.62	16.22	.67	.55	14.91	.50	.69	.95	.68	.50	.29
14	.37	.62	.19	.63	.53	.79	.86	.69	.87	.57	.48	.27
15	.37	.52	15.60	.66	.56	.69	.70	.51	.92	.49	.46	.33
16	12.34	12.43	14.73	14.72	15.61	14.68	15.25	13.52	12.90	12.59	12.46	12.41
17	.45	.36	.28	15.91	.68	.79	14.87	.41	.86	.67	.46	.34
18	.48	.38	13.98	16.14	.65	.79	.63	.41	.88	.64	.46	.30
19	.44	.39	.80	15.79	.61	15.23	.52	.37	.88	.57	.46	.31
20	.34	.39	.86	.43	.43	.55	.49	.37	.88	.45	.45	.28
21	12.39	12.37	14.61	15.41	15.29	15.79	14.32	13.32	12.83	12.64	12.40	12.33
22	.40	.37	15.02	.79	.29	.69	.21	.26	.82	.67	.47	.33
23	.42	.37	.03	16.13	.68	.53	.13	.25	.87	.62	.52	.31
24	.51	.37	.15	.03	16.07	.13	.05	.25	.83	.59	.45	.29
25	.49	.38	.07	.09	.11	.05	13.98	.18	.77	.58	.43	.29
26	12.49	12.56	14.96	17.75	15.91	14.99	13.90	13.17	12.76	12.55	12.43	12.31
27	.49	.67	.83	18.90	.80	15.09	.87	.19	.86	.53	.43	.27
28	.47	.55	.70	19.30	.65	.15	.33	.17	.87	.64	.39	.27
29	.42	.68	.41	.45	.67	.15	14.34	.10	.81	.69	-	.38
30	.42	.75	.09	.41	.82	.18	.48	.17	.77	.71	-	.38
31	-	.69	-	.07	.76	-	.61	-	.78	.68	-	.40
Mean	12.43	12.50	14.10	15.70	15.83	15.38	14.70	13.80	12.92	12.67	12.51	12.33
Max.	12.53	12.75	16.22	19.45	18.42	16.21	15.86	15.44	13.11	12.86	12.72	12.41
Min.	12.34	12.36	12.66	14.02	15.29	14.68	13.33	13.10	12.76	12.45	12.39	12.27

WATER YEAR 1971 : Max. 19.45 m. Min. 12.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	66	47	84	353	1,738	767	523	428	150	98	86	44
2	63	49	93	383	1,276	812	497	421	148	100	88	44
3	61	49	100	380	1,014	654	469	486	148	101	90	44
4	58	61	126	355	857	867	518	605	145	95	84	49
5	56	62	118	364	728	873	530	641	142	90	78	49
6	50	54	93	343	638	812	550	523	138	107	66	47
7	44	66	94	312	622	773	530	404	134	110	57	45
8	50	74	94	334	633	731	533	349	129	97	57	44
9	51	77	82	366	704	672	483	330	134	87	69	42
10	52	87	130	378	698	619	526	278	134	87	68	45
11	54	81	200	418	707	559	542	290	124	94	57	44
12	57	69	528	450	695	550	545	288	124	98	58	40
13	44	77	876	448	672	506	658	248	124	84	62	37
14	47	77	867	439	666	478	764	248	111	70	60	35
15	47	64	686	446	675	456	716	216	119	61	57	42
16	44	54	461	458	689	453	589	218	116	73	57	51
17	56	46	366	779	710	478	497	199	110	83	57	44
18	60	49	304	851	701	478	442	199	113	79	57	38
19	55	50	269	743	689	584	417	192	113	70	57	39
20	44	50	280	638	638	672	410	192	113	56	56	36
21	50	47	435	633	599	743	374	183	105	79	50	42
22	50	47	533	743	599	713	351	174	104	83	58	42
23	52	47	535	848	710	666	334	172	111	77	64	39
24	63	47	564	816	828	559	318	172	105	73	56	37
25	61	49	545	835	841	540	304	161	97	72	54	37
26	61	69	518	1,439	779	526	288	159	95	68	54	39
27	61	83	483	1,980	746	550	282	162	110	66	54	35
28	58	68	454	2,202	701	564	185	159	111	79	50	35
29	52	84	393	2,293	707	564	378	148	102	86	–	49
30	52	94	326	2,268	752	571	408	159	97	88	–	49
31	–	86	–	2,068	734	–	435	–	98	84	–	50
Total	1,619	1,964	10,637	25,363	23,746	18,990	14,396	8,404	3,704	2,595	1,761	1,313
Mean	54.0	63.3	354	818	766	633	464	280	119	83.7	62.9	42.3
Max.	66	94	876	2,293	1,738	873	764	641	150	110	90	51
Min.	44	46	82	312	599	453	185	148	95	56	50	35
Runoff – mcm.	139.882	169.690	919.037	2,191.363	2,051.654	1,640.736	1,243.814	726.106	320.026	224.208	152.150	113.443

WATER YEAR 1971 : Max. 2,293 Min. 35 Mean 314 Annual Runoff 9,892.109 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.29	18.00	19.57	2,367				

KHWAE YAI RIVER BASIN

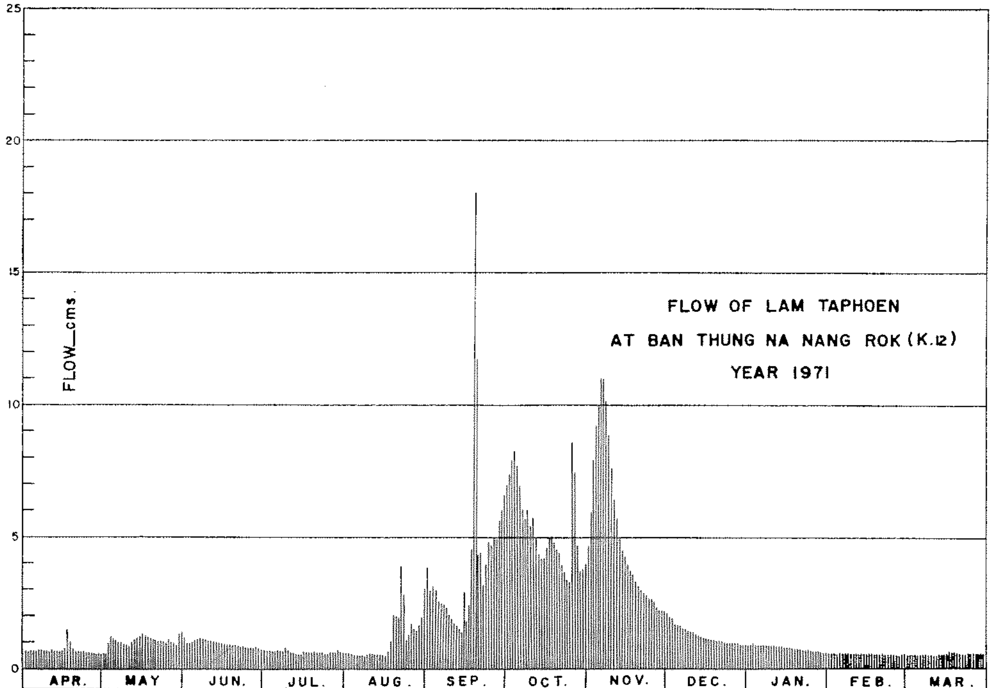
Lam Thaphoen at Ban Thung Na Nang Rok, Kanchanaburi (K. 12)

Location:	Lat. 14^{0}-09'-15" N., Long. 99^{0}-25'-06" E., on left bank about 50 meters downstream from Wat Thung Na Nang Rok, Tambon Lat Ya, Amphoe Muang, Kanchanaburi.
Drainage Area:	2,340 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	At the corner of Sala Wat Thung Na Nang Rok.
Elevation:	+ 9.260 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1965 to date.
Rating Operation:	
Period of Rating:	1965-1968
Rated by Float:	-
Rated by Current Meter:	1965-1968
Stability of Channel Regimes:	Fairly Stable, no shifting adjustment for flow computation for year without actual ratings.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. The data presented is made by discharge measurements during 1967. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.59	0.53	0.70	0.60	0.56	1.43	2.01	1.60	1.04	0.69	0.59	0.55
2	.59	.54	.69	.59	.55	.24	.07	.90	.00	.69	.58	.55
3	.59	.72	.70	.59	.54	.28	.14	2.18	0.99	.69	.58	.55
4	.59	.77	.72	.59	.53	.25	.18	.35	.94	.69	.58	.55
5	.60	.74	.74	.59	.53	.15	.08	.50	.93	.69	.57	.55
6	0.60	0.72	0.74	0.59	0.52	1.12	1.94	2.58	0.92	0.69	0.57	0.55
7	.60	.71	.74	.59	.51	.12	.85	.56	.90	.68	.56	.55
8	.60	.70	.74	.60	.51	.09	.78	.43	.88	.68	.56	.55
9	.59	.69	.73	.65	.54	.03	.84	.24	.86	.68	.56	.55
10	.58	.66	.72	.59	.55	0.93	.73	.05	.86	.68	.56	.55
11	0.58	0.65	0.72	0.58	0.55	0.94	1.79	1.90	0.85	0.67	0.56	0.55
12	.58	.72	.71	.56	.54	.91	.67	.78	.83	.67	.56	.54
13	.59	.74	.70	.54	.54	.88	.55	.66	.80	.67	.56	.56
14	.59	.76	.69	.53	.53	.85	.50	.57	.79	.67	.56	.55
15	.59	.79	.69	.54	.53	1.23	.51	.51	.78	.66	.56	.55
16	0.62	0.80	0.69	0.59	0.54	0.95	1.59	1.45	0.77	0.65	0.56	0.56
17	.87	.79	.68	.59	.61	1.20	.66	.41	.76	.65	.56	.62
18	.72	.77	.68	.59	.76	.83	.66	.37	.75	.65	.56	.57
19	.63	.75	.68	.58	1.01	3.41	.62	.33	.75	.64	.55	.56
20	.60	.74	.67	.58	.00	1.52	.56	.29	.75	.64	.56	.55
21	0.59	0.73	0.66	0.57	0.99	1.35	1.54	1.26	0.74	0.63	0.56	0.55
22	.58	.73	.66	.56	1.44	.25	.47	.23	.73	.63	.55	.55
23	.57	.71	.66	.56	.25	.50	.40	.21	.72	.62	.55	.55
24	.56	.70	.65	.54	0.75	.62	.34	.19	.72	.62	.55	.56
25	.56	.70	.65	.52	.83	.59	.32	.17	.71	.61	.54	.56
26	0.55	0.74	0.64	0.56	0.93	1.65	2.22	1.14	0.71	0.61	0.55	0.56
27	.53	.68	.64	.56	.87	.64	.06	.09	.71	.61	.54	.56
28	.53	.68	.62	.57	.86	.77	1.56	.07	.71	.60	.55	.56
29	.53	.66	.62	.61	.95	.85	.41	.07	.69	.59	.56	.56
30	.54	.82	.61	.59	1.03	.94	.43	.06	.69	.59	-	.56
31	-	.81	-	.57	.32	-	.47	-	.69	.59	-	.56
Mean	0.59	0.72	0.68	0.58	0.75	1.38	1.71	1.64	0.80	0.65	0.56	0.55
Max.	0.87	0.82	0.74	0.65	1.44	3.41	2.22	2.58	1.04	0.69	0.59	0.62
Min.	0.53	0.53	0.61	0.52	0.51	0.85	1.32	1.06	0.69	0.59	0.54	0.54

WATER YEAR 1971 : Max. 3.41 m. Min. 0.51 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	0.56	1.00	0.70	0.62	3.85	7.11	4.70	2.16	0.97	0.68	0.60
2	0.68	0.58	0.97	0.68	0.60	2.96	7.50	6.40	2.00	0.97	0.66	0.60
3	0.68	1.06	1.00	0.68	0.58	3.12	7.98	8.26	1.96	0.97	0.66	0.60
4	0.68	1.21	1.06	0.68	0.56	3.00	8.26	9.45	1.76	0.97	0.66	0.60
5	0.70	1.12	1.12	0.68	0.56	2.60	7.57	10	1.72	0.97	0.64	0.60
6	0.70	1.06	1.12	0.68	0.54	2.48	6.66	11	1.68	0.97	0.64	0.60
7	0.70	1.03	1.12	0.68	0.52	2.48	6.10	11	1.60	0.94	0.62	0.60
8	0.70	1.00	1.12	0.70	0.52	2.36	5.69	10	1.54	0.94	0.62	0.60
9	0.68	0.97	1.09	0.85	0.58	2.12	6.04	8.68	1.48	0.94	0.62	0.60
10	0.66	0.88	1.06	0.68	0.60	1.92	5.41	7.37	1.48	0.94	0.62	0.60
11	0.66	0.85	1.06	0.66	0.60	1.76	5.74	6.40	1.45	0.91	0.62	0.60
12	0.66	1.06	1.03	0.62	0.58	1.64	5.08	5.69	1.39	0.91	0.62	0.58
13	0.68	1.12	1.00	0.58	0.58	1.54	4.45	5.03	1.30	0.91	0.62	0.62
14	0.68	1.18	0.97	0.56	0.56	1.45	4.20	4.55	1.27	0.91	0.62	0.60
15	0.68	1.27	0.97	0.58	0.56	2.92	4.25	4.25	1.24	0.88	0.62	0.60
16	0.76	1.30	0.97	0.68	0.58	1.80	4.65	3.95	1.21	0.85	0.62	0.62
17	1.51	1.27	0.94	0.68	0.73	2.80	5.03	3.75	1.18	0.85	0.62	0.76
18	1.06	1.21	0.94	0.68	1.18	5.98	5.03	3.55	1.15	0.85	0.62	0.64
19	0.76	1.15	0.94	0.66	2.04	18	4.81	3.35	1.15	0.82	0.60	0.62
20	0.70	1.12	0.91	0.65	2.00	4.30	4.50	3.16	1.15	0.82	0.62	0.60
21	0.68	1.09	0.88	0.64	1.96	3.45	4.40	3.04	1.12	0.79	0.62	0.60
22	0.66	1.09	0.88	0.62	3.90	3.00	4.05	2.92	1.09	0.79	0.60	0.60
23	0.64	1.03	0.88	0.62	3.00	4.20	3.70	2.84	1.06	0.76	0.60	0.60
24	0.62	1.00	0.85	0.58	1.15	4.81	3.40	2.76	1.06	0.76	0.60	0.62
25	0.62	1.00	0.85	0.54	1.39	4.65	3.30	2.68	1.03	0.73	0.58	0.62
26	0.60	1.12	0.82	0.62	1.72	4.97	8.54	2.56	1.03	0.73	0.60	0.62
27	0.56	0.94	0.82	0.62	1.51	4.92	7.44	2.36	1.03	0.73	0.58	0.62
28	0.56	0.94	0.76	0.64	1.48	5.63	4.20	2.28	1.03	0.70	0.60	0.62
29	0.56	0.88	0.76	0.73	1.80	6.10	3.75	2.28	0.97	0.68	0.62	0.62
30	0.58	1.36	0.73	0.68	2.12	6.66	3.85	2.24	0.97	0.68	–	0.62
31	–	1.33	–	0.64	3.30	–	4.05	–	0.97	0.68	–	0.62
Total	21.12	32.78	28.62	20.30	38.42	117.47	166.74	156.50	41.23	26.32	18.00	19.00
Mean	0.70	1.06	0.92	0.65	1.24	3.91	5.38	5.22	1.33	0.85	0.64	0.61
Max.	1.51	1.36	1.12	0.85	3.90	18	8.54	11	2.16	0.97	0.68	0.76
Min.	0.56	0.56	0.73	0.54	0.52	1.45	3.30	2.24	0.97	0.68	0.58	0.58
Runoff - mcm.	1.825	2.832	2.473	1.754	3.319	10.149	14.406	13.522	3.562	2.274	1.555	1.642

WATER YEAR 1971 : Max. 18 Min. 0.52 Mean 1.88 Annual Runoff 59.314 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19	06.00	4.63	30				

MAE KLONG RIVER BASIN

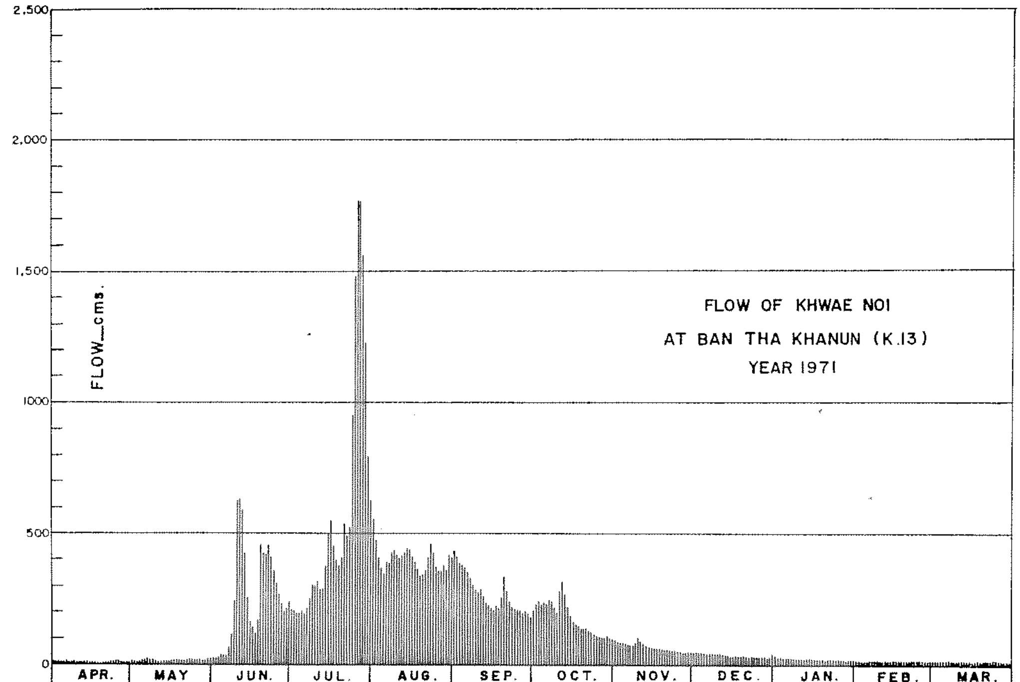
Khwae Noi at Ban Tha Khanun, Kanchanaburi (K.13)

Location:	Lat. 14°-43'-50" N., Long. 98°-38'-32" E., on right bank at Pompe Village, 200 meters downstream from Wat Tha Khanun, Amphoe Thong Pha Phum, Kanchanaburi.
Drainage Area:	4,047 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 73.70 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	on right bank near the K13 station office.
Elevation:	+ 97.200 m. (M.S.L.)
Gage Reading Frequency:	16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 16 readings.
Period of Available Gage Records:	1965 to date
Rating Operation:	
Period of Rating:	1965-1971
Rated by Float:	-
Rated by Current Meter:	1965-1971
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 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	75.71	75.78	76.22	78.13	80.69	80.00	78.09	76.89	76.31	76.05	75.86	75.73
2	.71	.73	.03	.09	.18	79.77	.32	.86	.30	.03	.85	.72
3	.71	.73	.02	.05	79.75	.65	.43	.83	.29	.02	.84	.72
4	.70	.77	.09	.02	.49	.55	.27	.79	.28	.01	.83	.71
5	.70	.77	.21	.07	.29	.53	.40	.76	.27	.00	.82	.71
6	75.69	75.86	76.21	77.98	79.67	79.31	78.34	76.73	76.26	76.00	75.82	75.70
7	.67	.90	.71	78.24	.65	.06	.52	.71	.25	75.99	.82	.70
8	.65	.83	77.22	.61	80.00	78.92	.34	.73	.24	.98	.81	.70
9	.63	.78	78.31	.94	.02	.76	.14	.99	.23	.97	.80	.69
10	.63	.80	81.32	.92	79.95	.81	.00	77.06	.21	.96	.80	.69
11	75.64	75.75	81.34	79.05	79.81	78.59	78.77	76.77	76.20	75.95	75.79	75.69
12	.65	.72	.09	78.83	.87	.42	79.08	.69	.19	.95	.79	.68
13	.66	.69	79.71	.85	.93	.31	78.52	.66	.18	.94	.79	.68
14	.64	.70	78.46	79.61	80.08	.21	.16	.62	.17	.94	.79	.69
15	.63	.67	77.74	81.34	.05	.15	77.93	.58	.16	.93	.79	.71
16	75.62	75.66	77.47	81.43	79.79	78.27	77.76	76.55	76.15	75.92	75.78	75.72
17	.63	.65	.26	80.25	.65	.21	.64	.52	.14	.91	.78	.71
18	.61	.64	.85	79.70	.39	.67	.55	.50	.13	.91	.78	.70
19	.60	.64	80.14	.56	.24	79.39	.48	.48	.11	.91	.77	.68
20	.59	.68	79.91	.95	.34	.21	.44	.47	.10	.91	.79	.68
21	75.72	75.72	79.92	80.75	79.41	78.68	77.48	76.46	76.09	75.90	75.79	75.67
22	.81	.80	80.14	.37	.88	.37	.36	.44	.08	.90	.78	.66
23	.79	.80	79.85	.44	80.23	.16	.24	.42	.07	.89	.77	.69
24	.75	.81	.53	83.17	79.85	.14	.17	.40	.07	.88	.77	.69
25	.72	.87	.10	85.87	.53	.11	.11	.38	.06	.88	.75	.69
26	75.68	75.87	78.73	86.97	79.43	78.11	77.08	76.37	76.06	75.88	75.74	75.67
27	.61	.87	.34	.98	.42	77.99	.05	.36	.05	.87	.74	.66
28	.62	.91	.06	85.95	.59	78.08	.05	.35	.05	.87	.73	.69
29	.66	.85	.30	84.56	.40	77.95	.14	.34	.04	.87	.73	.63
30	.74	.86	.41	82.74	.90	.82	.04	.33	.06	.86	-	.70
31	-	76.03	-	81.48	.77	-	76.94	-	.07	.86	-	.70
Mean	75.67	75.77	78.62	80.67	79.71	79.62	77.80	76.60	76.15	76.07	75.79	75.69
Max.	75.81	76.03	81.34	86.98	80.69	80.00	79.08	77.06	76.31	76.05	75.86	75.73
Min.	75.59	75.64	76.02	77.98	79.24	77.82	76.94	76.33	76.04	75.86	75.73	75.63

WATER YEAR 1971 : Max. 86.98 m. Min. 75.59 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	15	39	207	* 528	433	203	88	45	29	19	13
2	12	13	28	203	* 456	403	228	86	44	28	18	13
3	12	13	27	198	* 399	387	240	83	43	27	18	13
4	12	15	31	195	367	374	223	80	43	27	17	12
5	12	15	39	201	343	372	237	78	42	26	17	12
6	12	19	39	191	390	345	230	75	42	26	17	12
7	11	21	74	219	387	315	250	74	41	25	17	12
8	11	17	117	261	433	298	230	75	40	25	16	12
9	9.20	15	227	301	436	279	208	96	40	24	16	12
10	9.20	16	626	298	426	285	193	102	39	24	16	12
11	9.60	14	629	314	408	259	280	79	38	23	16	12
12	10	13	589	288	416	239	318	72	37	23	16	11
13	10	12	395	290	424	227	250	70	37	23	16	11
14	9.60	12	244	382	443	216	211	67	36	23	16	12
15	9.20	11	167	629	439	209	186	64	36	22	16	12
16	8.80	10	140	644	406	223	169	61	35	22	15	13
17	9.20	10	120	466	387	216	157	59	34	21	15	12
18	8.40	9.60	178	394	355	268	148	58	34	21	15	12
19	8.00	9.60	451	376	337	355	141	57	33	21	15	11
20	7.60	11	421	426	349	333	137	56	32	21	16	11
21	13	13	423	537	357	270	141	55	31	21	16	11
22	16	16	451	* 481	417	234	129	54	31	21	15	10
23	16	16	413	* 494	463	211	119	52	30	20	15	12
24	15	16	372	* 981	413	208	111	51	30	20	15	12
25	13	19	320	*1,488	372	205	107	50	30	20	14	12
26	11	19	276	*1,765	360	205	104	49	30	20	14	11
27	8.40	19	230	*1,761	358	192	101	48	29	19	14	10
28	8.80	21	200	*1,514	380	202	101	47	29	19	13	12
29	10	18	226	*1,217	356	188	110	47	28	19	13	9.20
30	14	19	238	* 862	420	175	101	46	30	19	–	12
31	–	28	–	* 648	403	–	92	–	30	19	–	12
Total	328.00	475.20	7,730.00	18,231	12,428	8,126	5,455	1,979	1,099	698	456	363.20
Mean	10.9	15.3	258	588	401	271	176	65.9	35.4	22.5	15.7	11.7
Max.	16	28	629	1,765	528	433	318	102	45	29	19	13
Min.	7.60	9.60	27	191	337	175	92	46	28	19	13	9.20
Runoff - mcm.	28.339	41.057	667.872	1,575.158	1,073.779	702.086	471.312	170.985	94.953	60.307	39.398	31.380

WATER YEAR 1971 : Max. 1,765 Min. 7.60 Mean 157 Annual Runoff 4,956.630 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.26	21.00	87.49	1,887				

Lam Phachi at Frontier Police Station, Ratchaburi (K.17)

Location: Lat. 13^0-32'-41" N., Long. 99^0-21'-22" E., on left bank opposite to the "Sai Ngam" frontier police station, TambonSuan Phung, Amphoe Chom Bung, Ratchaburi.

Drainage Area: 1,355 sq.km.

Type of Gage: Water-Stage recorder.

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

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

Location: Along the measuring line.
Elevation: + 11.799 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1966 to date

Rating Operation:

Period of Rating: 1966 to date
Rated by Float: -
Rated by Current Meter: 1966 to date

Stability of Channel Regimes: Fairly Stable with variable water surface slope and some scouring. 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 1971. No State-diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.09	0.21	0.17	0.27	0.50	0.41	1.24	1.58	0.38	0.23	0.09	0.00
2	.09	.12	.20	.26	.46	.38	.14	.45	.36	.23	.08	.00
3	.10	.14	.16	.26	.41	.35	.11	2.00	.35	.21	.07	.00
4	.09	.13	.14	.26	.37	.35	0.99	.27	.34	.20	.07	-0.01
5	.09	.16	.14	.27	.34	.35	1.09	1.95	.33	.20	.06	-0.01
6	0.09	0.32	0.14	0.26	0.33	0.31	1.26	1.68	0.32	0.19	0.05	-0.01
7	.09	.69	.14	.23	.33	.30	0.97	.50	.31	.19	.07	0.00
8	.09	.40	.13	.23	.34	.29	.86	.33	.30	.18	.08	.01
9	.09	.32	.14	.23	.34	.29	.92	.17	.31	.18	.08	.01
10	.09	.24	.21	.23	.32	.27	.79	.07	.28	.17	.06	-0.01
11	0.09	0.20	0.49	0.24	0.31	0.26	2.37	0.97	0.27	0.17	0.07	-0.01
12	.10	.18	1.29	.24	.29	.26	3.87	.89	.26	.15	.05	-0.01
13	.09	.15	.28	.24	.28	.25	.13	.82	.26	.14	.05	0.01
14	.10	.15	0.81	.24	.28	.25	2.33	.76	.25	.15	.05	.02
15	.13	.15	.60	.29	.29	.30	1.86	.71	.25	.14	.05	.00
16	0.13	0.11	0.49	0.31	0.32	0.27	1.55	0.66	0.24	0.14	0.04	-0.01
17	.20	.11	.42	.30	.28	.31	.34	.62	.24	.14	.04	-0.01
18	.09	.11	.38	.26	.26	.63	.19	.59	.24	.13	.04	0.00
19	.09	.10	.39	.25	.26	1.39	.08	.56	.24	.12	.03	-0.01
20	.09	.10	.46	.38	.29	2.30	0.99	.54	.24	.12	.03	0.00
21	0.09	0.10	0.44	0.64	0.41	2.26	1.01	0.51	0.22	0.12	0.02	0.00
22	.09	.10	.42	.67	.66	1.93	0.92	.49	.22	.11	.02	-0.01
23	.09	.10	.42	.57	.68	.80	.83	.47	.22	.10	.02	0.04
24	.12	.12	.42	.68	.58	.75	.76	.44	.21	.10	.02	.01
25	.10	.13	.39	1.10	.50	.98	.75	.42	.21	.10	.01	.04
26	0.13	0.12	0.37	1.29	0.45	2.35	0.79	0.41	0.20	0.10	0.01	0.04
27	.23	.13	.34	.03	.49	.62	.74	.41	.21	.09	.01	.17
28	.13	.14	.32	0.92	.63	.24	1.23	.40	.21	.09	.00	.28
29	.15	.14	.29	.79	.58	1.75	.53	.40	.24	.09	.00	.49
30	.12	.15	.28	.69	.50	.44	.55	.40	.25	.08	-	.30
31	-	.15	-	.59	.44	-	.60	-	.24	.08	-	.31
Mean	0.11	0.18	0.39	0.46	0.44	0.99	1.48	0.88	0.26	0.14	0.04	0.05
Max.	0.23	0.69	1.29	1.29	0.68	2.62	3.87	2.27	0.38	0.23	0.09	0.49
Min.	0.09	0.10	0.13	0.23	0.26	0.25	0.79	0.40	0.20	0.08	0.00	-0.01

WATER YEAR 1971 : Max. 3.87 m. Min. - 0.01 m.

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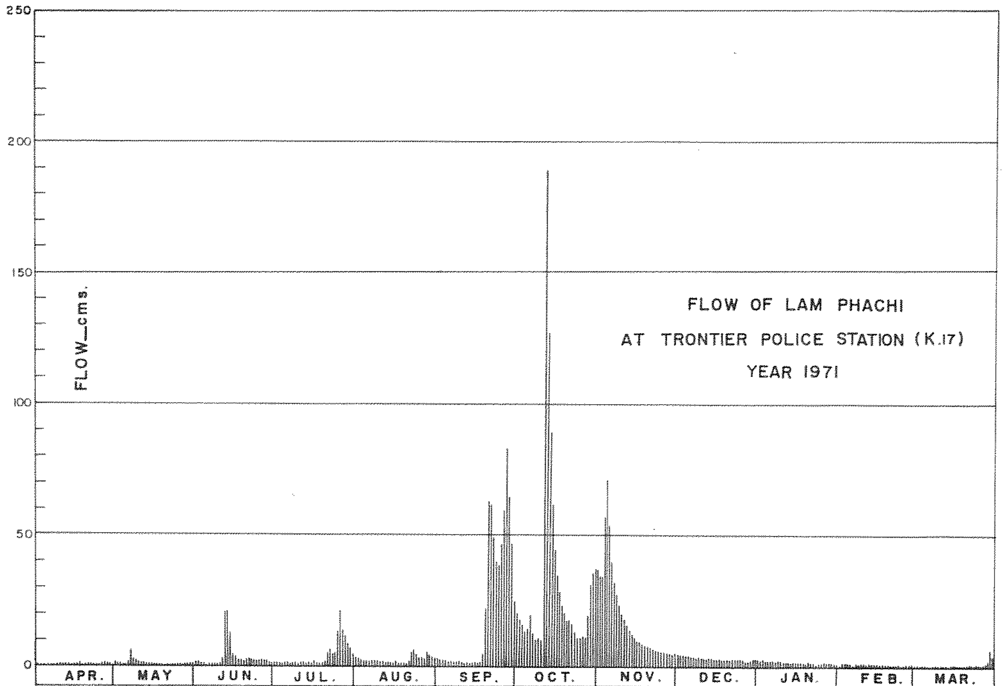


DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.54	1.33	1.06	1.78	3.60	2.86	20	37	4.72	2.66	1.15	0.48
2	0.54	0.73	1.26	1.70	3.27	2.62	17	32	4.44	2.66	1.07	0.48
3	0.60	0.86	1.00	1.70	2.86	2.39	16	56	4.30	2.39	1.00	0.48
4	0.54	0.80	0.86	1.70	2.55	2.39	13	71	4.16	2.26	1.00	0.42
5	0.54	1.00	0.86	1.78	2.31	2.39	15	54	4.02	2.26	0.92	0.42
6	0.54	2.15	0.86	1.70	2.23	2.08	20	41	3.88	2.16	0.85	0.42
7	0.54	6.60	0.86	1.48	2.23	2.00	12	34	3.74	2.16	1.00	0.48
8	0.54	2.78	0.80	1.48	2.31	1.93	10	28	3.60	2.05	1.07	0.55
9	0.54	2.16	0.86	1.48	2.31	1.93	11	23	3.74	2.05	1.07	0.55
10	0.54	1.56	1.33	1.48	2.16	1.78	8.60	19	3.33	1.95	0.92	0.42
11	0.54	1.26	3.52	1.56	2.08	1.70	67	17	3.20	1.95	1.00	0.42
12	0.60	1.13	21	1.56	1.93	1.70	189	15	3.06	1.74	0.85	0.42
13	0.54	0.93	21	1.56	1.85	1.63	121	13	3.06	1.64	0.85	0.55
14	0.60	0.93	9.00	1.56	1.85	1.63	75	11	2.93	1.74	0.85	0.63
15	0.80	0.93	4.80	1.93	1.93	2.00	49	10	2.93	1.64	0.85	0.48
16	0.80	0.67	3.52	2.08	2.16	1.78	36	9.48	2.80	1.64	0.78	0.42
17	1.26	0.67	2.94	2.00	1.85	2.08	28	8.76	2.80	1.64	0.78	0.42
18	0.54	0.67	2.62	1.70	1.70	5.40	23	8.22	2.80	1.53	0.78	0.48
19	0.54	0.60	2.70	1.63	1.70	24	20	7.68	2.80	1.43	0.70	0.42
20	0.54	0.60	3.27	2.62	1.93	63	17	7.32	2.80	1.43	0.70	0.48
21	0.54	0.60	3.11	5.60	2.86	61	18	6.78	2.53	1.43	0.63	0.48
22	0.54	0.60	2.94	6.20	6.00	45	15	6.44	2.53	1.32	0.63	0.42
23	0.54	0.60	2.94	4.44	6.40	40	13	6.12	2.53	1.22	0.63	0.78
24	0.73	0.73	2.94	6.40	4.56	38	11	5.64	2.39	1.22	0.63	0.55
25	0.60	0.80	2.70	16	3.60	48	11	5.32	2.39	1.22	0.55	0.78
26	0.80	0.73	2.55	21	3.19	66	12	5.16	2.26	1.22	0.55	0.78
27	1.48	0.80	2.31	14	3.52	83	11	5.16	2.39	1.15	0.55	1.95
28	0.80	0.86	2.16	11	5.40	60	25	5.00	2.39	1.15	0.48	3.33
29	0.93	0.86	1.93	8.60	4.56	38	35	5.00	2.80	1.15	0.48	6.44
30	0.73	0.93	1.85	6.60	3.60	26	36	5.00	2.93	1.07	–	3.60
31	–	0.93	–	4.68	3.11	–	38	–	2.80	1.07	–	3.74
Total	19.91	36.80	109.55	139.00	91.61	632.29	992.60	558.08	97.05	52.20	23.32	32.27
Mean	0.664	1.19	3.65	4.48	2.95	21.1	32.0	18.6	3.13	1.68	0.804	1.04
Max.	1.48	6.60	21	21	6.40	83	189	71	4.72	2.66	1.15	6.44
Min.	0.54	0.60	0.80	1.48	1.70	1.63	8.60	5.00	2.26	1.07	0.48	0.42
Runoff - mcm.	1.720	3.179	9.465	12.010	7.915	54.630	85.761	48.218	8.385	4.510	2.015	2.788

WATER YEAR 1971 : Max. 189 Min. 0.42 Mean 7.60 Annual Runoff 240.596 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	23.00	4.52	257				

MAE KLONG RIVER BASIN

Khwae Yai at Ban Ong Kha, Kanchanaburi (K. 19)

Location: Lat. 14°-52'-11" N., Long. 99°-03'-50" E., on left bank about 4.5 kilometers downstream from confluence with Huai Kha Khaeng and about 2 kilometers upstream from confluence with Huai Ong Kha, Tambon Na Suan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 8,437 sq.km.

Type of Gage: Staff gage

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

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

- Location: Along the gate line
- Elevation: + 14.385 m. (A.D.)

Gage Reading Frequency: 24 time daily readings at 01.00-24.00 hours on April - November and 16 time daily readings at 03.00, 06.00-18.00, 21.00 and 24 hours on December - March.

Basis of Mean Daily Gage Height: Arithmetic mean of 16-24 readings.

Period of Available Gage Records: 1966-1972

Rating Operation:

- Period of Rating: 1966-1971
- Rated by Float: -
- Rated by Current Meter: 1966-1971

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

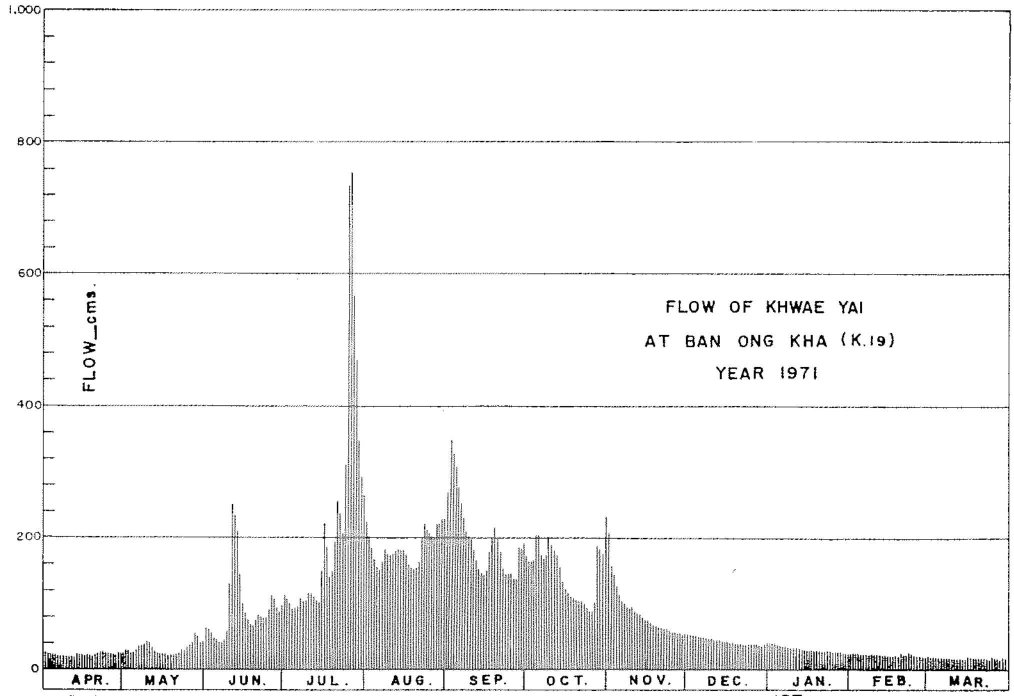
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.49	1.53	2.08	2.67	3.85	4.23	3.26	3.69	1.94	1.74	1.49	1.37
2	.47	.55	.04	.58	.62	.24	.25	.24	.94	.71	.48	.36
3	.44	.49	1.91	.48	.42	.83	.26	2.96	.91	.69	.47	.36
4	.42	.47	.84	.41	.27	.60	.66	.79	.90	.68	.46	.35
5	.40	.51	.77	.46	.14	.44	.66	.67	.89	.67	.46	.35
6	1.39	1.57	1.71	2.50	3.12	4.19	3.40	2.58	1.88	1.66	1.45	1.34
7	.39	.68	.74	.61	.29	3.94	.32	.50	.87	.65	.45	.34
8	.38	.68	.82	.57	.43	.71	.24	.45	.86	.64	.44	.34
9	.37	.73	2.06	.60	.47	.63	.62	.45	.85	.63	.43	.34
10	.37	.78	.99	.71	.37	.58	.53	.49	.83	.62	.43	.33
11	1.38	1.67	4.08	2.69	3.37	3.50	3.45	2.38	1.82	1.61	1.42	1.33
12	.39	.56	3.91	.63	.34	.36	.35	.35	.81	.60	.42	.32
13	.45	.49	.38	.55	.43	.22	.32	.31	.81	.58	.42	.33
14	.43	.46	2.79	.56	.42	.13	.21	.25	.79	.58	.42	.32
15	.42	.47	.49	3.25	.42	.08	.00	.22	.78	.57	.41	.34
16	1.39	1.45	2.34	3.81	3.34	3.06	2.86	2.19	1.77	1.56	1.41	1.38
17	.42	.42	.23	.30	.23	.23	.76	.16	.76	.56	.40	.36
18	.39	.42	.12	2.98	.12	.65	.69	.14	.75	.55	.40	.34
19	.38	.41	.12	3.11	.12	.76	.64	.11	.74	.55	.45	.32
20	.42	.41	.29	.86	.17	.61	.59	.09	.74	.55	.45	.31
21	1.50	1.44	2.31	4.11	3.29	3.44	2.57	2.07	1.73	1.54	1.43	1.29
22	.52	.49	.28	3.83	.66	.45	.54	.06	.73	.54	.44	.29
23	.49	.53	.26	.62	.81	.16	.51	.04	.72	.53	.50	.30
24	.49	.54	.30	4.80	.71	.02	.45	.01	.72	.52	.44	.29
25	.48	.67	.48	6.98	.67	.03	.40	1.99	.71	.51	.41	.39
26	1.44	1.73	2.64	7.05	3.62	2.96	2.41	1.98	1.71	1.51	1.39	1.33
27	.42	.78	.56	6.16	.59	.93	.77	.97	.70	.51	.38	.31
28	.41	.94	.43	5.77	.79	3.45	3.47	.99	.69	.50	.37	.34
29	.47	.81	.38	.15	.82	.44	.37	.98	.69	.50	.37	.34
30	.46	.72	.58	4.61	.87	.52	.52	.96	.71	.49	-	.35
31	-	.78	-	.18	.88	-	.92	-	.76	.49	-	.37
Mean	1.43	1.59	2.40	3.63	3.47	3.48	2.97	2.33	1.79	1.58	1.43	1.34
Max.	1.52	1.94	4.08	7.05	3.88	4.83	3.92	3.69	1.94	1.74	1.50	1.38
Min.	1.37	1.41	1.71	2.41	3.12	2.93	2.40	1.96	1.69	1.49	1.37	1.29

WATER YEAR 1971 : Max. 7.05 m. Min. 1.29 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	27	63	111	224	266	164	207	53	39	24	18
2	23	28	60	103	200	267	163	163	53	38	24	18
3	22	24	51	94	180	344	164	137	51	36	23	18
4	21	23	46	89	165	312	204	122	50	36	23	17
5	20	26	41	93	154	291	204	111	49	35	23	17
6	19	29	38	96	152	262	178	103	49	35	22	17
7	19	36	39	106	167	234	170	96	48	34	22	17
8	19	36	44	102	181	209	163	92	47	33	22	17
9	18	39	61	105	185	201	200	92	46	33	21	17
10	18	42	140	115	175	196	191	95	45	32	21	16
11	18	35	250	113	175	188	183	86	44	32	21	16
12	19	29	231	108	172	174	173	84	44	31	21	16
13	22	24	176	100	181	161	170	81	44	30	21	16
14	21	23	122	101	180	153	160	76	42	30	21	16
15	21	23	95	163	180	148	141	74	42	29	20	17
16	19	22	83	220	172	146	128	71	41	29	20	19
17	21	21	74	168	162	162	119	69	41	29	20	18
18	19	21	66	139	152	203	113	67	40	28	20	17
19	19	20	66	151	152	214	109	65	39	28	22	16
20	21	20	79	226	156	199	104	63	39	28	22	15
21	25	22	81	253	167	182	102	62	39	27	21	15
22	26	24	78	223	204	183	100	61	39	27	22	15
23	24	27	77	200	220	155	97	60	38	27	25	15
24	24	27	80	340	209	143	92	58	38	26	22	15
25	24	35	94	735	205	144	88	56	38	26	20	19
26	22	39	109	752	200	137	89	56	38	26	19	16
27	21	42	101	564	197	135	120	55	37	26	19	15
28	20	53	90	493	218	183	185	56	36	25	18	17
29	23	44	86	392	221	182	175	56	36	25	18	17
30	23	38	103	313	227	190	190	54	38	24	–	17
31	–	42	–	261	228	–	232	–	41	24	–	18
Total	636	941	2,724	7,029	5,761	5,964	4,671	2,528	1,325	928	617	517
Mean	21.2	30.3	90.8	26.7	186	199	151	84.2	42.7	29.9	21.3	16.7
Max.	26	53	250	752	228	344	204	207	53	39	25	19
Min.	18	20	38	89	152	135	88	54	36	24	18	15
Runoff - mcm.	54.950	81.302	235.353	607.305	497.750	515.290	403.574	218.419	114.480	80.179	53.309	44.669

WATER YEAR 1971 : Max. 752 Min. 15 Mean 91.9 Annual Runoff 2,906.582 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.26	24.00	7.40	836				

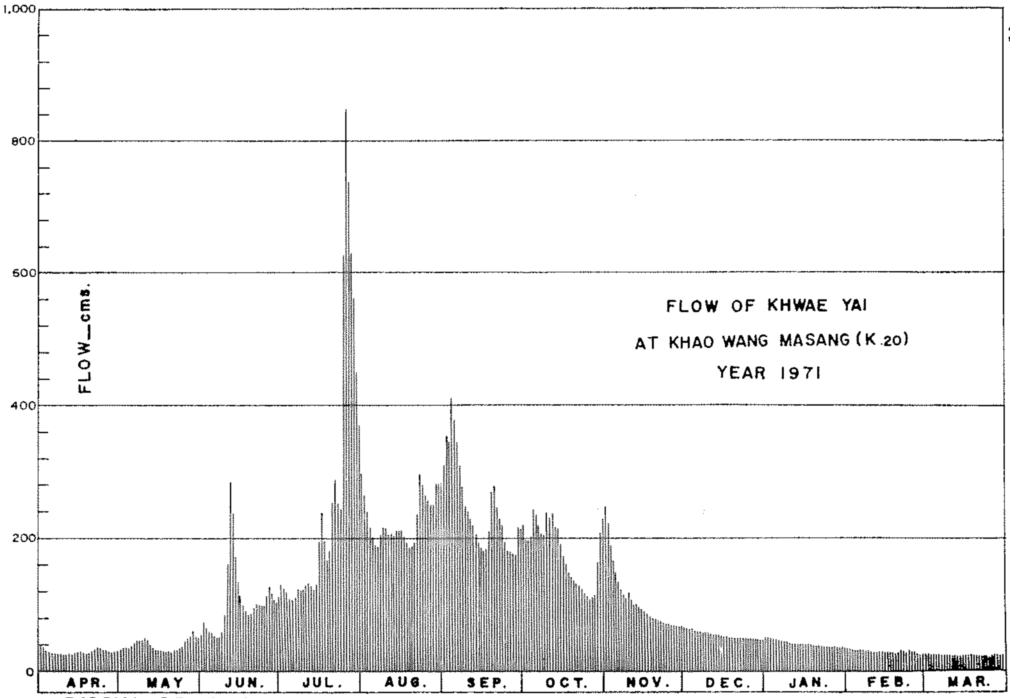
Khwae Yai at Khao Wang Masang, Kanchanaburi (K.20)

Location:	Lat. 14°-20'-52" N., Long. 99°-10'-45" E., on right bank 500 meters upstream from Ban Kaeng Khab, Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.
Drainage Area:	11,184 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 44.50 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	on right bank along gage line
Elevation:	+ 60.932 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:	1966 to date
Rating Operation:	
Period of Rating:	1966 to date
Rated by Float:	-
Rated by Current Meter:	1966 to date
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.58	45.47	45.85	46.71	48.38	48.41	47.60	47.86	45.96	45.76	45.52	45.39
2	.51	.51	46.06	.68	.06	.73	.36	.64	.95	.74	.51	.38
3	.46	.54	45.97	.61	47.80	.64	.38	.27	.94	.71	.49	.37
4	.45	.51	.87	.52	.59	49.13	.48	.01	.92	.69	.47	.37
5	.43	.52	.83	.44	.44	48.82	.82	46.83	.91	.68	.48	.37
6	45.42	45.59	45.78	46.49	47.31	48.62	47.73	46.71	45.90	45.67	45.47	45.36
7	.41	.68	.73	.51	.30	.37	.50	.61	.89	.67	.47	.36
8	.40	.70	.77	.64	.48	.10	.45	.53	.88	.66	.46	.36
9	.40	.68	.87	.63	.58	47.90	.45	.48	.87	.65	.45	.35
10	.39	.71	46.22	.67	.55	.78	.78	.58	.86	.63	.45	.35
11	45.39	45.74	47.30	46.75	47.50	47.70	47.72	46.48	45.84	45.62	45.45	45.35
12	.41	.65	48.20	.73	.50	.63	.78	.39	.83	.61	.44	.34
13	.42	.57	47.96	.67	.44	.47	.58	.37	.82	.61	.44	.35
14	.46	.51	.34	.62	.53	.34	.53	.32	.80	.60	.43	.34
15	.46	.49	46.77	.76	.51	.25	.34	.28	.79	.59	.43	.33
16	45.47	45.48	46.51	47.47	47.53	47.23	47.13	46.24	45.78	45.59	45.43	45.35
17	.42	.46	.35	.77	.44	.30	.00	.20	.77	.58	.43	.37
18	.42	.44	.24	.30	.35	.54	46.89	.17	.77	.57	.42	.37
19	.43	.44	.17	.06	.25	48.07	.81	.14	.76	.57	.42	.35
20	.44	.44	.22	.30	.31	.13	.76	.11	.75	.57	.48	.34
21	45.46	45.44	46.34	48.03	47.40	47.85	46.72	46.09	45.75	45.57	45.46	45.32
22	.51	.47	.40	.21	.91	.70	.68	.08	.74	.56	.44	.31
23	.54	.50	.37	47.90	48.28	.58	.63	.05	.73	.55	.43	.31
24	.50	.56	.36	.76	.19	.32	.59	.04	.73	.55	.48	.32
25	.49	.57	.41	50.29	.02	.21	.52	.02	.73	.54	.45	.32
26	45.48	45.69	46.57	51.71	47.97	47.20	46.50	46.00	45.72	45.53	45.42	45.37
27	.45	.75	.68	.22	.88	.16	.51	45.99	.71	.53	.40	.37
28	.43	.80	.56	50.44	.91	.15	.54	.99	.71	.53	.40	.34
29	.43	.90	.44	.04	48.14	.57	47.01	46.00	.70	.53	.40	.36
30	.48	.77	.41	49.39	.17	.55	.51	45.98	.70	.52	-	.37
31	-	.73	-	48.85	.19	-	.69	-	.72	.52	-	.38
Mean	45.45	45.59	46.50	47.74	47.70	47.78	47.43	46.41	45.78	45.60	45.44	45.35
Max.	45.58	45.90	48.20	51.71	48.38	49.13	47.82	47.86	45.96	45.76	45.52	45.39
Min.	45.39	45.44	45.73	46.44	47.30	47.15	46.50	45.98	45.70	45.52	45.40	45.31

WATER YEAR 1971 : Max. 51.71 m. Min. 45.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	40	32	58	131	309	313	220	248	67	52	35	26
2	35	35	75	128	270	356	196	224	66	51	35	26
3	31	37	67	121	241	344	198	187	65	49	33	25
4	30	35	60	113	219	412	208	161	64	47	32	25
5	29	35	57	106	204	369	243	143	63	47	33	25
6	28	40	54	110	191	341	233	131	62	46	32	25
7	28	47	50	112	190	308	210	121	61	46	32	25
8	27	48	53	124	208	275	205	114	61	45	31	25
9	27	47	60	123	218	252	205	109	60	44	30	24
10	26	49	88	127	215	239	239	118	59	43	30	24
11	26	51	190	135	210	230	232	109	58	42	30	24
12	28	44	287	133	210	223	239	101	57	42	30	23
13	28	39	259	127	204	207	218	100	56	42	30	24
14	31	35	195	122	213	194	213	96	55	41	29	23
15	31	33	137	136	211	185	194	92	54	40	29	23
16	32	33	112	207	213	183	173	89	54	40	29	24
17	28	31	98	238	204	190	160	86	53	40	29	25
18	28	30	89	190	195	214	149	84	53	39	28	25
19	29	30	84	166	185	271	141	81	52	39	28	24
20	30	30	88	190	191	279	136	79	51	39	33	23
21	31	30	97	267	200	246	132	77	51	39	31	22
22	35	32	102	288	253	230	128	76	51	38	30	22
23	37	34	100	252	297	218	123	74	50	37	29	22
24	34	38	99	237	286	192	119	73	50	37	33	22
25	33	39	103	594	265	181	113	72	50	37	30	22
26	33	47	117	848	260	180	111	70	49	36	28	25
27	30	51	128	760	250	176	112	69	49	36	27	25
28	29	55	116	620	253	175	115	69	49	36	27	23
29	29	62	106	552	280	217	161	70	48	36	27	25
30	33	53	103	450	283	215	211	68	48	35	–	25
31	–	50	–	373	286	–	229	–	49	35	–	26
Total	916	1,252	3,232	8,080	7,214	7,415	5,566	3,191	1,715	1,276	880	747
Mean	30.5	40.3	108	261	233	247	179	106	55.3	41.1	30.3	24.1
Max.	40	62	287	848	309	412	243	248	67	52	35	26
Min.	26	30	50	106	190	175	111	68	48	35	27	22
Runoff – mcm.	79.142	108.173	279.245	698.112	623.290	640.656	480.902	275.702	148.176	110.246	76.032	64.541

WATER YEAR 1971 : Max. 848 Min. 22 Mean 112 Annual Runoff 3,584.218 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.26	19.00	51.86	876				

KHWAE NOI RIVER BASIN

Huai Mae Nam Noi at Tambon Tha Thung Na, Kanchanaburi (K. 22A)

Location: Lat. 14°-26'-44" N., Long. 98°-48'-08" E., on left bank about 3 kilometers downstream from K22 station at Tambon Tha Thung Na, Amphoe Sai Yok, Kanchanaburi.

Drainage Area: 321 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 66.690 m. (M.S.L.)

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

Location: Near the Meteorological station
Elevation: + 76.874 m. (M.S.L.)

Gage Reading Frequency: 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1969 to date

Rating Operation:

Period of Rating: 1969 to date
Rated by Float: -
Rated by Current Meter: 1969 to date

Stability of Channel Regimes: Fairly Stable, no shifting adjustment for flow computation and including overbank flow.

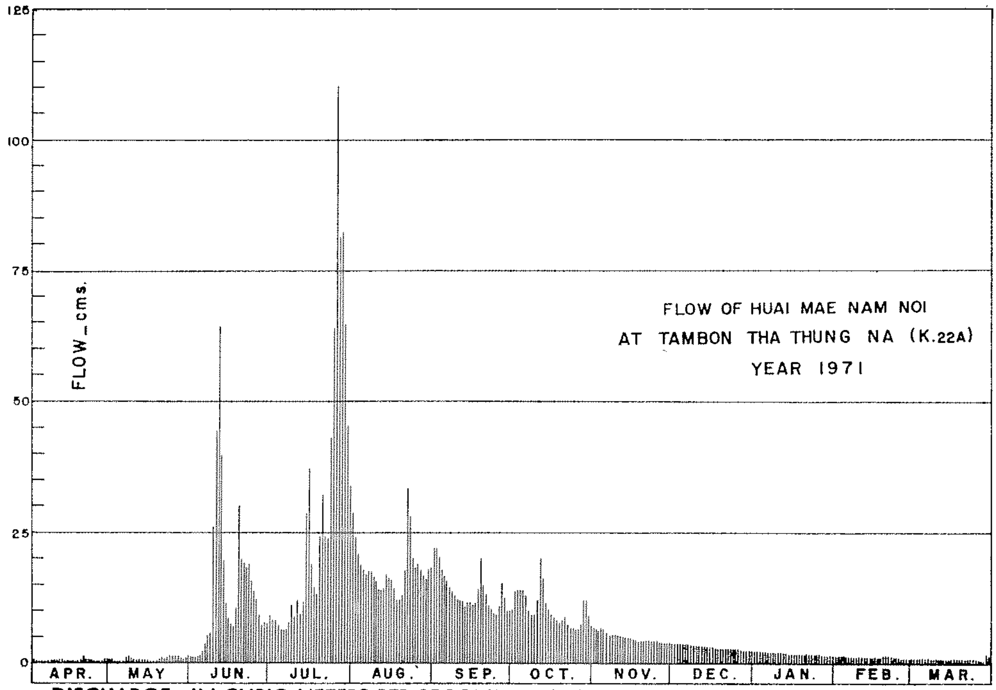
Overbank Flow Conditions: Overbank flow starts at elevation + 71.10 m. (M.S.L.)

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	67.14	67.14	67.18	67.56	68.34	68.11	67.61	67.45	67.31	67.25	67.20	67.16
2	.13	.15	.18	.52	.18	.12	.79	.44	.31	.25	.20	.16
3	.13	.12	.17	.52	.06	.03	.75	.43	.31	.24	.20	.16
4	.12	.12	.20	.48	67.98	67.95	.76	.46	.31	.24	.20	.16
5	.12	.12	.23	.44	.95	.89	.76	.43	.30	.24	.19	.16
6	67.12	67.13	67.30	67.44	67.88	67.85	67.74	67.40	67.30	67.24	67.19	67.15
7	.12	.17	.38	.45	.89	.79	.61	.39	.30	.23	.19	.15
8	.12	.20	.40	.51	.93	.76	.57	.39	.30	.23	.19	.15
9	.12	.17	.74	.63	.90	.73	.56	.38	.29	.23	.19	.15
10	.12	.15	68.61	.54	.85	.73	.59	.38	.29	.23	.18	.15
11	67.13	67.14	69.76	67.70	67.79	67.70	67.90	67.38	67.29	67.23	67.18	67.15
12	.13	.14	68.90	.57	.78	.67	68.02	.37	.29	.23	.18	.15
13	.13	.14	67.99	.58	.77	.65	67.78	.37	.28	.22	.18	.15
14	.12	.14	.68	.97	.90	.68	.65	.36	.28	.22	.18	.14
15	.12	.13	.53	68.66	.84	.68	.59	.36	.28	.22	.17	.14
16	67.11	67.13	67.47	68.12	67.86	67.64	67.57	67.35	67.28	67.22	67.17	67.16
17	.11	.12	.44	67.89	.76	.66	.54	.34	.27	.22	.17	.16
18	.11	.12	.61	.79	.70	.77	.51	.34	.27	[illegible]	.19	.15
19	.12	.14	68.36	.74	.68	68.03	.50	.34	.27	.22	.20	.15
20	.14	.14	.00	68.48	.72	67.79	.51	.34	.27	.22	.19	.15
21	67.18	67.17	67.99	68.49	67.79	67.72	67.54	67.34	67.26	67.22	67.19	67.14
22	.14	.16	.94	.20	68.50	.65	.48	.33	.26	.21	.18	.14
23	.14	.19	.96	.17	.30	.60	.46	.33	.26	.21	.17	.14
24	.13	.20	.83	.81	.02	.58	.45	.33	.26	.21	.17	.14
25	.12	.20	.71	69.54	67.95	.56	.44	.33	.26	.21	.17	.14
26	67.12	67.18	67.61	70.86	67.97	67.66	67.46	67.32	67.26	67.21	67.16	67.13
27	.12	.19	.53	.04	.88	.88	.50	.32	.26	.20	.16	.13
28	.11	.18	.48	.08	.92	.72	.69	.32	.25	.20	.16	.13
29	.16	.15	.49	69.29	.84	.62	.68	.32	.25	.20	.16	.21
30	.16	.17	.49	68.82	.93	.60	.51	.32	.25	.20	-	.19
31	-	.20	-	.52	.93	-	.47	-	.25	.20	-	.16
Mean	67.13	67.15	67.74	68.24	67.93	67.76	67.61	67.36	67.28	67.22	67.18	67.15
Max.	67.18	67.20	69.76	70.86	68.50	68.12	68.02	67.46	67.31	67.25	67.20	67.21
Min.	67.11	67.12	67.17	67.44	67.68	67.56	67.44	67.32	67.25	67.20	67.16	67.13

WATER YEAR 1971 : Max. 70.86 m. Min. 67.11 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	0.60	1.20	9.12	28	22	10	6.70	3.71	2.50	1.50	0.90
2	0.45	0.75	1.20	8.24	24	22	14	6.48	3.71	2.50	1.50	0.90
3	0.45	0.30	1.05	8.24	21	20	14	6.26	3.71	2.30	1.50	0.90
4	0.30	0.30	1.50	7.36	19	18	14	6.92	3.71	2.30	1.50	0.90
5	0.30	0.30	2.10	6.48	18	17	14	6.26	3.50	2.30	1.35	0.90
6	0.30	0.45	3.50	6.43	17	16	13	5.60	3.50	2.30	1.35	0.75
7	0.30	1.05	5.18	6.70	17	14	10	5.39	3.50	2.10	1.35	0.75
8	0.30	1.50	5.60	8.02	18	14	9.34	5.39	3.50	2.10	1.35	0.75
9	0.30	1.05	13	11	17	13	9.12	5.18	3.30	2.10	1.35	0.75
10	0.30	0.75	34	8.68	16	13	9.78	5.18	3.30	2.10	1.20	0.75
11	0.45	0.60	64	12	14	12	17	5.18	3.30	2.10	1.20	0.75
12	0.45	0.60	44	9.37	14	12	20	4.97	3.30	2.10	1.20	0.75
13	0.45	0.60	19	9.56	14	11	14	4.97	3.10	1.90	1.20	0.75
14	0.30	0.60	12	19	17	12	11	4.76	3.10	1.90	1.20	0.60
15	0.30	0.45	8.46	37	16	12	9.78	4.76	3.10	1.90	1.05	0.60
16	0.15	0.45	7.14	22	16	11	9.34	4.55	3.10	1.90	1.05	0.90
17	0.15	0.30	6.48	17	14	11	8.68	4.34	2.90	1.90	1.05	0.90
18	0.15	0.30	10	14	12	14	8.02	4.34	2.90	1.90	1.35	0.75
19	0.30	0.60	29	13	12	20	7.80	4.34	2.90	1.90	1.50	0.75
20	0.60	0.60	20	32	13	14	8.02	4.34	2.90	1.90	1.35	0.75
21	1.20	1.05	19	32	14	13	8.68	4.34	2.70	1.90	1.35	0.60
22	0.60	0.90	18	24	33	11	7.36	4.13	2.70	1.70	1.20	0.60
23	0.60	1.35	19	24	27	10	6.92	4.13	2.70	1.70	1.05	0.60
24	0.45	1.50	15	41	20	9.56	6.70	4.13	2.70	1.70	1.05	0.60
25	0.30	1.50	13	64	18	9.12	6.48	4.13	2.70	1.70	1.05	0.60
26	0.30	1.20	10	110	19	11	6.92	3.92	2.70	1.70	0.90	0.45
27	0.30	1.35	8.46	81	17	15	7.80	3.92	2.70	1.50	0.90	0.45
28	0.15	1.20	7.36	82	18	13	12	3.92	2.50	1.50	0.90	0.45
29	0.90	0.75	7.58	56	16	10	12	3.92	2.50	1.50	0.90	1.70
30	0.90	1.05	7.58	42	18	10	8.02	3.92	2.50	1.50	–	1.35
31	–	1.50	–	33	18	–	7.14	–	2.50	1.50	–	0.90
Total	12.60	25.50	413.39	854.22	555	409.68	320.90	146.37	94.94	59.90	35.40	24.05
Mean	0.42	0.82	13.8	27.5	17.9	13.6	10.3	4.88	3.06	1.93	1.22	0.77
Max.	1.20	1.50	64	110	33	22	20	6.92	3.71	2.50	1.50	1.70
Min.	0.15	0.30	1.05	6.48	12	9.12	6.48	3.92	2.50	1.50	0.90	0.45
Runoff – mcm.	1.089	2.203	35.717	73.805	47.952	35.396	27.726	12.646	8.203	5.175	3.058	2.078

WATER YEAR 1971 : Max. 110 Min. 0.15 Mean 8.06 Annual Runoff 255.048 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 26	13.00	71.20	123				

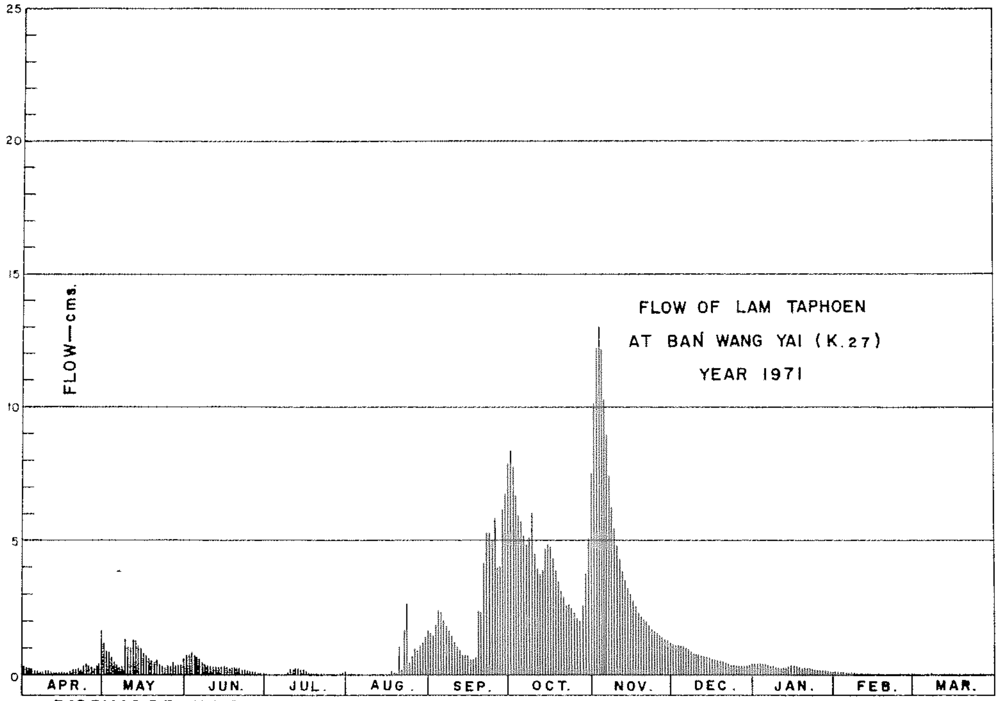
Lam Taphoen at Ban Wang Yai, Kanchanaburi (K. 27)

Location:	Lat. 14°-20'-14" N., Long. 99°-29'-22" E., on left bank about 3 kilometers upstream from Ban Lat Ya, Amphoe Bo Phloi, Kanchanaburi.
Drainage Area:	1,921 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	In the fence of Meteorological Station
Elevation:	+ 6.750 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1968 to date
Rating Operation:	
Period of Rating:	1968 to date
Rated by Float:	-
Rated by Current Meter:	1968 to date
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1970. No State diversions for irrigation above gage site. No adjustment made for virgin flow.
Remarks:	Water level lower than the gage on February 13 - March 31, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.79	1.05	0.95	0.63	0.64	1.15	2.38	2.63	1.05	0.84	0.68	
2	.76	0.95	.93	.62	.62	.13	.28	.91	.05	.83	.67	
3	.74	.97	.96	.61	.61	.24	.10	3.01	.05	.83	.68	
4	.72	.90	.93	.61	.58	.33	1.98	2.88	.04	.83	.67	
5	.71	.85	.90	.60	.58	.33	.95	.66	.03	.82	.66	
6	0.70	0.81	0.87	0.59	0.56	1.23	1.86	2.42	1.03	0.81	0.66	
7	.68	.79	.85	.58	.54	.20	.81	.20	0.99	.81	.65	
8	.70	.81	.82	.58	.52	.17	.86	.04	.98	.79	.65	
9	.72	1.10	.81	.69	.48	.12	2.00	1.91	.96	.79	.64	
10	.69	.02	.80	.74	.44	.07	1.68	.80	.96	.79	.61	
11	0.68	1.02	0.79	0.74	0.39	1.02	1.64	1.70	0.94	0.78	0.58	
12	.68	.10	.78	.76	.36	0.99	.61	.62	.93	.78	.56	
13	.68	.08	.78	.74	.33	.95	.65	.55	.92	.78		
14	.68	.03	.79	.72	.30	.94	.78	.50	.92	.80		
15	.68	0.99	.79	.70	.29	.94	.81	.45	.91	.80		
16	0.68	0.96	0.79	0.68	0.29	0.88	1.78	1.41	0.89	0.79		
17	.68	.93	.77	.66	.69	.88	.69	.37	.86	.77		
18	.69	.90	.76	.66	.67	.90	.61	.33	.88	.76		
19	.73	.88	.77	.65	.69	1.34	.54	.30	.87	.75		
20	.74	.84	.75	.65	1.02	.32	.47	.27	.86	.75		
21	0.74	0.88	0.74	0.64	0.73	1.66	1.44	1.24	0.84	0.75		
22	.73	.81	.73	.63	1.19	.88	.38	.22	.83	.74		
23	.82	.79	.71	.62	.39	.88	.39	.19	.82	.74		
24	.84	.78	.70	.63	0.83	.80	.35	.18	.81	.73		
25	.81	.80	.69	.63	.93	.97	.31	.16	.81	.72		
26	0.79	0.79	0.68	0.63	1.01	1.65	1.28	1.14	0.81	0.73		
27	.76	.86	.67	.63	0.99	.66	.26	.12	.80	.71		
28	.80	.80	.66	.65	1.03	2.05	.38	.10	.82	.71		
29	.81	.81	.65	.68	.07	.14	.57	.09	.83	.70		
30	1.17	.83	.65	.68	.12	.31	.79	.07	.83	.69		
31	-	.90	-	.67	.18	-	2.21	-	.84	.69		
Mean	0.75	0.90	0.78	0.65	0.78	1.38	1.70	1.68	0.91	0.77		
Max.	1.17	1.10	0.96	0.76	1.39	2.31	2.38	3.01	1.05	0.84		
Min.	0.68	0.78	0.65	0.58	0.29	0.88	1.26	1.07	0.80	0.69		

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	1.12	0.76	0.039	0.052	1.52	8.35	10	1.12	0.43	0.10	
2	0.24	0.86	0.70	0.026	0.026	1.44	7.70	12	1.12	0.40	0.09	
3	0.21	0.83	0.80	0.013	0.013	1.91	6.60	13	1.12	0.40	0.10	
4	0.17	0.60	0.70	0.013	0.00	2.32	5.88	12	1.09	0.40	0.09	
5	0.15	0.46	0.60	0.00	0.00	2.32	5.70	10	1.05	0.38	0.08	
6	0.13	0.35	0.52	0.00		1.86	5.18	8.61	1.01	0.38	0.08	
7	0.10	0.30	0.46	0.00		1.73	4.89	7.20	0.90	0.35	0.06	
8	0.13	0.35	0.38	0.00		1.61	5.18	6.24	0.86	0.30	0.05	
9	0.17	1.32	0.35	0.12		1.40	6.00	5.47	0.80	0.30	0.04	
10	0.12	1.01	0.32	0.21		1.20	4.15	4.83	0.80	0.30	0.01	
11	0.10	1.01	0.30	0.21		1.01	3.92	4.26	0.73	0.28	0.00	
12	0.10	1.32	0.28	0.24		0.90	3.76	3.81	0.70	0.28	0.00	
13	0.10	1.24	0.28	0.21		0.76	3.98	3.43	0.67	0.28		
14	0.10	1.05	0.30	0.17		0.73	4.72	3.17	0.67	0.32		
15	0.10	0.90	0.30	0.13		0.73	4.89	2.91	0.63	0.32		
16	0.10	0.80	0.30	0.10	0.00	0.54	4.72	2.71	0.57	0.30		
17	0.10	0.70	0.26	0.078	0.12	0.54	4.20	2.52	0.54	0.26		
18	0.12	0.60	0.24	0.078	0.091	0.60	3.76	2.32	0.54	0.24		
19	0.19	0.54	0.26	0.065	0.12	2.37	3.38	2.18	0.52	0.22		
20	0.21	0.43	0.22	0.065	1.01	2.28	3.02	2.04	0.49	0.22		
21	0.21	0.54	0.21	0.052	0.19	4.04	2.86	1.91	0.43	0.22		
22	0.19	0.35	0.19	0.039	1.69	5.29	2.56	1.82	0.40	0.21		
23	0.38	0.30	0.15	0.026	2.61	5.29	2.61	1.69	0.38	0.21		
24	0.43	0.26	0.13	0.039	0.40	4.83	2.42	1.65	0.35	0.19		
25	0.35	0.32	0.12	0.039	0.70	5.82	2.23	1.57	0.35	0.17		
26	0.30	0.30	0.10	0.039	0.97	3.98	2.09	1.48	0.35	0.19		
27	0.24	0.49	0.091	0.039	0.90	4.04	2.00	1.40	0.32	0.15		
28	0.34	0.32	0.078	0.065	1.05	6.30	2.56	1.32	0.38	0.15		
29	0.35	0.35	0.065	0.10	1.20	6.84	3.54	1.28	0.40	0.13		
30	1.61	0.40	0.065	0.10	1.40	7.90	4.77	1.20	0.40	0.12		
31	–	0.60	–	0.091	1.65	–	7.26	–	0.43	0.12		
Total	7.32	20.04	9.529	2.396	14.192	82.10	134.88	134.02	20.12	8.22	0.70	0.00
Mean	0.24	0.65	0.32	0.077	0.46	2.74	4.35	4.47	0.65	0.26	0.024	0.00
Max.	1.61	1.32	0.80	0.24	2.61	7.90	8.35	13	1.12	0.43	0.10	0.00
Min.	0.10	0.28	0.065	0.00	0.00	0.54	2.00	1.20	0.32	0.12	0.00	0.00
Runoff - mcm.	0.632	1.731	0.823	0.207	1.226	7.093	11.654	11.579	1.738	0.710	0.000	0.000

WATER YEAR 1971 : Max. 13 Min. 0.00 Mean 1.18 Annual Runoff 37.406 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 3	16.00	3.03	13				

PHET RIVER BASIN

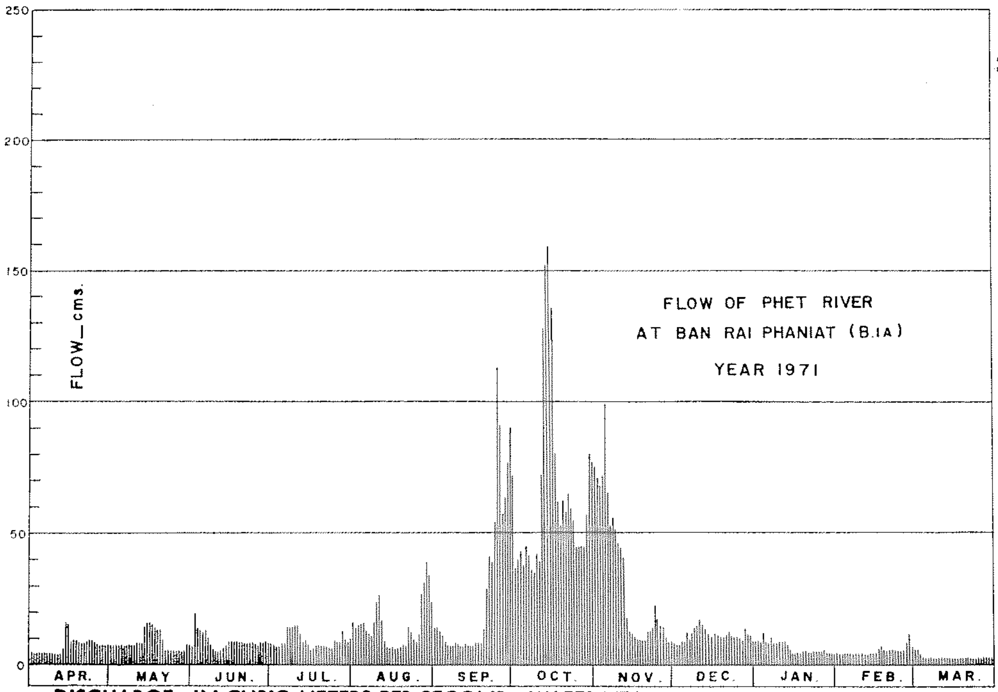
Phet River at Ban Rai Phaniat, Phetchaburi (B.1A)

Location:	Lat. 13°-04'-22" N., Long. 99°-56'-37" E., next to Muang Thaman Regulator, Ban Rai Phaniat, Tambon Ban Mo, Amphoe Muang, Phetchaburi.
Drainage Area:	4,188 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (M.S.L.)
Bench Mark:	B.M. - RID 075
Location:	At the cross road infront of Wang Ban Pun.
Elevation:	+ 4.179 m. (M.S.L.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1961 to date
Rating Operation:	
Period of Rating:	1965, 1967-1971
Rated by Float:	-
Rated by Current Meter:	1965, 1967-1971
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow.
General Description:	Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1965-70. Flow regulated by Kaeng Krachan reservoir and Phet Diversion Dam at above gage site for irrigation about 27,800 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.11	1.31	1.27	1.32	1.73	1.64	3.06	3.53	1.35	1.42	1.12	1.19
2	.11	.31	.85	.27	.67	.64	2.52	.45	.35	.40	.11	.17
3	.11	.31	.66	.22	.68	.58	.65	.36	.35	.40	.11	.06
4	.11	.31	.57	.28	.73	.48	.69	.50	.42	.61	.11	0.98
5	.10	.30	.56	.38	.75	.34	.52	4.08	.39	.37	.17	.97
6	1.10	1.31	1.57	1.37	1.59	1.29	2.76	3.39	1.58	1.37	1.12	0.98
7	.09	.31	.44	.66	.52	.28	.63	2.98	.45	.51	.10	.98
8	.10	.31	.25	.66	.49	.27	.49	3.06	.63	.37	.10	.98
9	.09	.31	.17	.71	.86	.38	.46	2.95	.68	.36	.12	.97
10	.10	.32	.13	.67	2.06	.32	.67	.78	.72	.40	.13	.98
11	1.09	1.37	1.13	1.69	2.14	1.28	2.59	2.72	1.81	1.40	1.13	0.98
12	.10	.37	.14	.48	1.51	.28	4.44	.60	.71	.40	.13	.98
13	.24	.33	.24	.34	.33	.30	5.20	1.74	.66	.29	.13	.98
14	.75	.64	.34	.41	.22	.28	.32	.61	.54	.23	.12	.98
15	.69	.72	.35	.31	.21	.28	4.85	.52	.51	.13	.13	.97
16	1.34	1.72	1.35	1.18	1.21	1.27	4.82	1.51	1.54	1.12	1.14	0.97
17	.44	.67	.35	.21	.20	.38	3.42	.45	.56	.31	.29	.98
18	.41	.35	.35	.29	.21	.34	.16	.42	.49	.31	.24	.98
19	.35	.33	.35	.28	.31	.38	2.98	.42	.48	.17	.19	.98
20	.34	.33	.36	.32	.28	.67	3.20	.45	.48	.15	.20	.98
21	1.34	1.23	1.35	1.27	1.26	2.33	3.10	1.57	1.53	1.15	1.20	0.98
22	.41	.16	.35	.26	.65	.64	.28	.60	.58	.16	.20	.99
23	.42	.16	.35	.24	.53	.57	.09	.71	.50	.16	.19	.98
24	.41	.16	.36	.25	.40	3.09	.00	2.02	.50	.16	.18	.97
25	.35	.16	.28	.40	.36	4.37	2.77	1.75	.50	.16	.17	.97
26	1.31	1.16	1.28	1.38	1.59	3.60	2.76	1.70	1.51	1.16	1.23	0.98
27	.31	.16	.36	.40	2.14	.12	.76	.68	.41	.15	.39	1.00
28	.31	.16	.33	.61	.31	.31	.76	.46	.65	.13	.55	.00
29	.31	.18	.33	.41	.58	.68	3.10	.37	.53	.12	.26	.00
30	.31	.30	.34	.37	.42	.87	.65	.35	.51	.12	-	0.99
31	-	.32	-	.48	1.92	-	.59	-	.41	.12	-	.99
Mean	1.27	1.32	1.36	1.39	1.28	2.01	3.23	2.22	1.53	1.27	1.18	1.00
Max.	1.75	1.72	1.85	1.71	2.58	4.37	5.32	4.08	1.81	1.61	1.55	1.19
Min.	1.09	1.16	1.13	1.21	1.20	1.27	2.46	1.35	1.35	1.12	1.10	0.97

WATER YEAR 1971 : Max. 5.32 m. Min. 0.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.56	7.76	7.12	7.92	16	14	56	75	8.40	9.60	4.72	5.84
2	4.56	7.76	19	7.12	14	14	37	72	8.40	9.20	4.56	5.52
3	4.56	7.76	14	6.32	15	13	41	68	8.40	9.20	4.56	3.84
4	4.56	7.76	13	7.28	16	11	43	74	9.60	13	4.56	2.74
5	4.40	7.60	12	8.88	16	8.24	37	99	9.04	8.72	5.52	2.61
6	4.40	7.76	13	8.72	13	7.44	45	68	13	8.72	4.72	2.74
7	4.26	7.76	10	14	12	7.28	41	53	10	11	4.40	2.74
8	4.40	7.76	6.80	14	11	7.12	36	56	14	8.72	4.40	2.74
9	4.26	7.76	5.52	15	19	8.88	35	52	15	8.56	4.72	2.61
10	4.40	7.92	4.88	15	24	7.92	42	46	16	9.20	4.88	2.74
11	4.26	8.72	4.88	15	26	7.28	39	44	18	9.20	4.88	2.74
12	4.40	8.72	5.04	11	11	7.28	116	40	15	9.20	4.88	2.74
13	6.64	8.08	6.64	8.24	8.08	7.60	153	16	14	7.44	4.88	2.74
14	16	14	8.24	9.40	6.32	7.28	159	13	12	6.48	4.72	2.74
15	15	16	8.40	7.76	6.16	7.28	136	12	11	4.88	4.88	2.61
16	8.24	16	8.40	5.68	6.16	7.12	134	11	12	4.72	5.04	2.61
17	10	15	8.40	6.16	6.00	8.88	70	10	12	7.76	7.44	2.74
18	9.40	8.40	8.40	7.44.	6.16	8.24	60	9.60	11	7.76	6.64	2.74
19	8.40	8.08	8.40	7.28	7.76	6.88	53	9.60	11	5.52	5.84	2.74
20	8.24	8.08	8.56	7.92	7.28	15	62	10	11	5.20	6.00	2.74
21	8.24	6.48	8.40	7.12	6.96	31	58	13	12	5.20	6.00	2.74
22	9.40	5.36	8.40	6.96	14	41	65	13	13	5.36	6.00	2.87
23	9.60	5.36	8.40	6.64	12	39	57	15	11	5.36	5.84	2.74
24	9.40	5.36	8.56	6.80	9.20	57	54	23	11	5.36	5.68	2.61
25	8.40	5.36	7.28	9.20	8.56	113	45	16	11	5.36	5.52	2.61
26	7.76	5.36	7.28	8.88	13	78	45	15	11	5.36	6.48	2.74
27	7.76	5.36	8.56	9.20	26	58	45	15	9.40	5.20	9.04	3.00
28	7.76	5.36	8.08	13	31	66	45	10	14	4.88	12	3.00
29	7.76	5.68	8.08	9.40	39	81	58	8.72	12	4.72	6.96	3.00
30	7.76	7.60	8.24	8.72	34	90	80	8.40	11	4.72	–	2.87
31	–	7.92	–	11	20	–	77	–	9.40	4.72	–	2.87
Total	218.78	253.88	261.96	287.04	460.64	837.72	2,024	975.32	363.64	220.32	165.76	92.31
Mean	7.29	8.19	8.73	9.26	14.8	27.9	65.3	32.5	11.7	7.11	5.71	2.98
Max.	16	16	19	15	39	113	159	99	18	13	12	5.84
Min.	4.26	7.60	4.88	6.16	6.00	7.12	35	8.40	8.40	4.72	4.40	2.61
Runoff - mcm.	18.902	21.935	22.633	24.800	39.799	72.379	174.874	84.268	31.418	19.036	14.322	7.975

WATER YEAR 1971 : Max. 159 Min. 2.61 Mean 16.8 Annual Runoff 532.342 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 14	12.00	5.32	159				

Phet River at the tail of Phet Barrage, Phetchaburi (B.2A)

Location: Lat. 12°-54'-44" N., Long. 99°-51'-31" E., on left bank about 500 meters downstream of Phet Barrage, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 4,060 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 12.00 m. (M.S.L.)

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

Location: on abutment of Phet Barrage.
Elevation: + 23.00 m. (M.S.L.)

Gage Reading Frequency: 24 time daily readings at 01.00-24.00 hours.

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

Period of Available Gage Records: 1959 to date

Rating Operation:

Period of Rating: 1960-1961, 1965 to date.
Rated by Float: -
Rated by Current Meter: 1960-1961, 1965 to date.

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

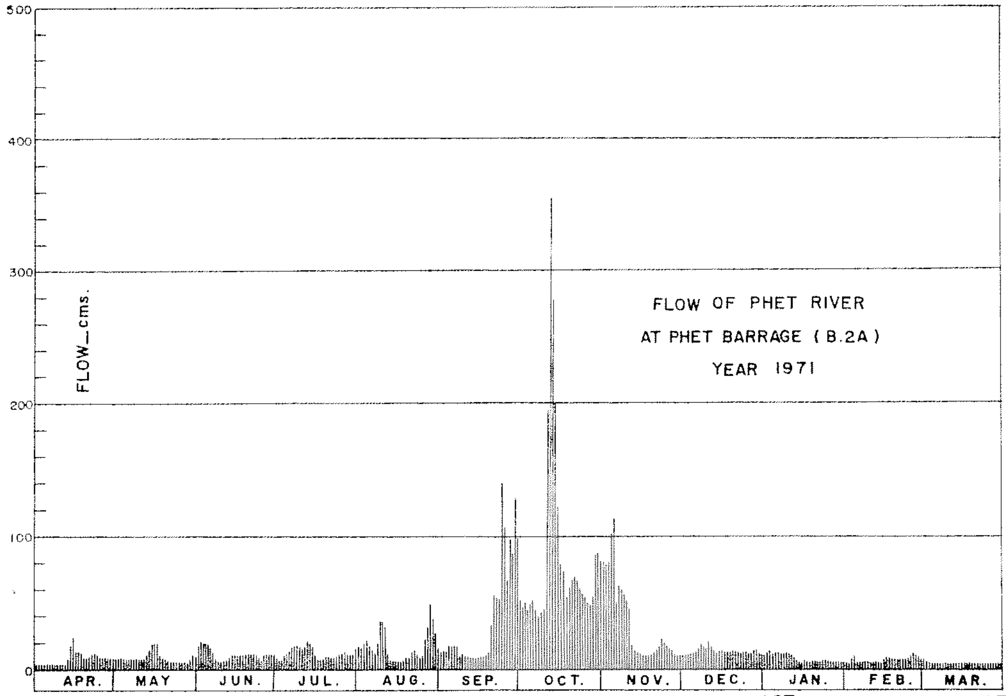
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Kaeng Krachan Reservoir and Phet Barrage at above gage site for irrigation of about 27,800 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.50	12.50	12.84	12.53	12.78	12.67	13.41	13.95	12.55	12.55	12.38	12.45
2	.50	.50	.88	.45	.76	.70	.40	.91	.55	.55	.38	.39
3	.50	.50	.80	.48	.82	.67	.49	.90	.58	.66	.39	.27
4	.50	.50	.80	.60	.91	.53	.36	14.27	.57	.58	.53	.27
5	.50	.50	.80	.62	.78	.50	.52	.37	.59	.58	.38	.30
6	12.50	12.50	12.72	12.75	12.70	12.50	13.50	13.35	12.63	12.59	12.38	12.30
7	.50	.50	.54	.78	.65	.50	.34	.67	.62	.56	.38	.30
8	.50	.50	.47	.80	.80	.56	.25	.63	.80	.56	.38	.30
9	.50	.50	.45	.78	13.17	.56	.35	.54	.75	.58	.38	.30
10	.50	.51	.45	.78	.19	.55	.36	.45	.68	.58	.38	.30
11	12.50	12.53	12.45	12.70	13.04	12.55	14.10	13.15	12.84	12.58	12.38	12.30
12	.52	.51	.49	.51	12.50	.55	15.68	12.74	.75	.53	.38	.30
13	.82	.63	.60	.60	.47	.55	.58	.64	.69	.43	.34	.30
14	.95	.85	.60	.82	.45	.50	15.62	.61	.60	.37	.38	.30
15	.65	.85	.60	.73	.45	.50	14.46	.60	.62	.37	.38	.30
16	12.64	12.85	12.60	12.48	12.45	12.54	13.87	12.57	12.65	12.40	12.49	12.30
17	.66	.62	.60	.53	.45	.57	.82	.55	.62	.42	.50	.30
18	.50	.50	.60	.50	.54	.56	.51	.55	.60	.39	.42	.30
19	.50	.50	.60	.55	.54	.64	.61	.55	.60	[illegible]	.42	.30
20	.50	.48	.60	.55	.48	13.13	.75	.64	.63	.38	.42	.30
21	12.60	12.45	12.60	12.54	12.69	13.55	13.80	12.70	12.65	12.38	12.42	12.30
22	.65	.45	.60	.50	.72	.51	.74	.73	.63	.38	.42	.30
23	.65	.45	.60	.50	.63	.49	.67	.89	.60	.38	.42	.30
24	.56	.45	.51	.61	.54	14.69	.55	.82	.62	.38	.42	.30
25	.50	.45	.46	.59	.59	.56	.50	.75	.65	.38	.44	.30
26	12.50	12.45	12.60	12.65	13.11	13.64	13.46	12.75	12.65	12.38	12.60	12.30
27	.50	.45	.60	.66	.10	14.17	.43	.67	.58	.38	.60	.30
28	.50	.45	.60	.62	.45	13.99	.42	.55	.64	.38	.50	.30
29	.50	.52	.60	.55	.23	14.57	14.05	.55	.69	.38	.45	.30
30	.50	.60	.60	.59	12.93	.15	.04	.55	.55	.38	-	.30
31	-	.54	-	.80	.73	-	13.95	-	.55	.38	-	.30
Mean	12.55	12.53	12.48	12.62	12.76	13.06	13.80	13.99	12.64	12.46	12.43	12.30
Max.	12.95	12.85	12.88	12.82	13.45	14.69	16.58	14.37	12.84	12.66	12.60	12.45
Min.	12.50	12.45	12.45	12.45	12.45	12.50	13.36	12.55	12.55	12.37	12.38	12.27

WATER YEAR 1971 : Max. 16.58 m. Min. 12.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.00	9.00	21	9.90	18	14	48	81	10	10	5.60	7.50
2	5.00	9.00	22	7.50	17	15	47	79	10	10	5.60	5.80
3	5.00	9.00	19	8.40	20	14	52	78	11	14	5.80	3.40
4	5.00	9.00	19	12	23	9.90	35	106	11	11	9.90	3.40
5	5.00	9.00	19	13	18	9.00	54	114	12	11	5.60	4.00
6	5.00	9.00	16	17	15	9.00	53	44	13	12	5.60	4.00
7	5.00	9.00	10	18	13	9.00	44	63	13	11	5.60	4.00
8	5.00	9.00	8.10	19	19	11	39	61	19	11	5.60	4.00
9	5.00	9.00	7.50	18	36	12	44	56	17	11	5.60	4.00
10	5.00	9.30	7.50	18	37	10	45	50	14	11	5.60	4.00
11	5.00	9.90	7.50	15	29	10	92	34	21	11	5.60	4.00
12	5.60	9.30	8.70	9.30	9.00	10	237	17	17	9.90	5.60	4.00
13	17	13	12	12	8.10	10	352	13	15	6.90	5.60	4.00
14	25	21	12	20	7.50	9.00	130	12	12	5.40	5.60	4.00
15	13	21	12	16	7.50	9.00	121	12	13	5.40	5.60	4.00
16	13	21	12	8.40	7.50	10	76	11	13	6.00	8.70	4.00
17	14	13	12	9.90	7.50	11	72	10	13	6.60	9.00	4.00
18	9.00	9.00	12	9.00	10	11	54	10	12	5.80	6.60	4.00
19	9.00	9.00	12	10	10	13	60	10	12	5.60	6.60	4.00
20	9.00	8.40	12	10	8.40	33	69	13	13	5.60	6.60	4.00
21	12	7.50	12	10	15	57	71	15	13	5.60	6.60	4.00
22	13	7.50	12	9.00	16	54	68	16	13	5.60	6.60	4.00
23	13	7.50	12	9.00	13	52	63	23	12	5.60	6.60	4.00
24	11	7.50	9.30	12	10	141	57	20	13	5.60	6.60	4.00
25	9.00	7.50	7.80	12	12	128	53	17	13	5.60	7.20	4.00
26	9.00	7.50	12	13	32	61	51	17	13	5.60	12	4.00
27	9.00	7.50	12	14	32	98	49	14	11	5.60	12	4.00
28	9.00	7.50	12	13	50	84	48	10	13	5.60	9.00	4.00
29	9.00	9.60	12	10	38	129	88	10	15	5.60	7.50	4.00
30	9.00	12	12	12	24	96	88	10	10	5.60	–	4.00
31	–	10	–	19	16	–	81	–	10	5.60	–	4.00
Total	272.60	316.50	374.40	393.40	578.50	1,138.90	2,441	1,026	407	241.80	200.10	128.10
Mean	9.09	10.2	12.5	12.7	18.7	37.9	78.7	34.2	13.1	7.80	6.90	4.13
Max.	25	21	22	20	50	141	352	114	21	14	12	7.50
Min.	5.00	7.50	7.50	7.50	7.50	9.00	35	10	10	5.40	5.60	3.40
Runoff - mcm.	23.553	27.346	32.348	33.990	49.982	98.401	210.902	88.646	35.165	20.891	17.289	11.068

WATER YEAR 1971 : Max. 352 Min. 3.40 Mean 20.6 Annual Runoff 649.581 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	06.00	16.70	370				

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, 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: Near the top gage

Elevation: + 49.760 m. (M.S.L)

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

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

Period of Available Gage Records: 1930 to date

Rating Operation:

Period of Rating: 1954-1959, 1968 to date.

Rated by Float: -

Rated by Current Meter 1954-1959, 1968 to date

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

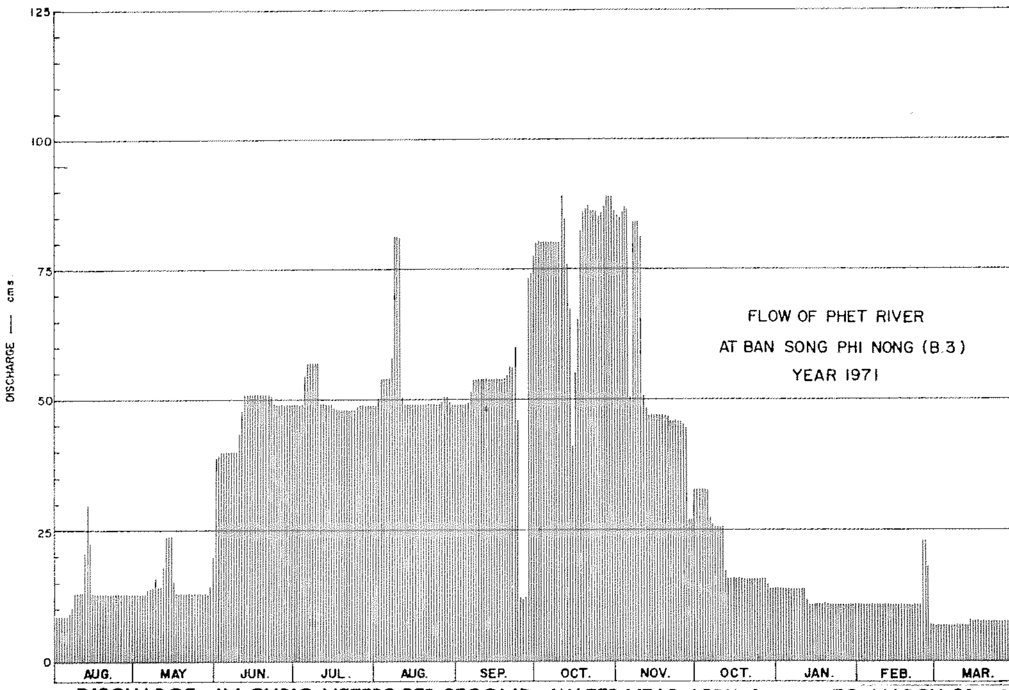
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used in defined by dischange measurements made during 1971. flow regulated by Kaeng Krachan Reservoir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42.02	42.18	42.73	42.90	42.90	42.90	43.37	43.44	42.62	42.20	42.11	41.96
2	.02	.18	.74	.90	.92	.90	.37	.44	.62	.20	.11	.96
3	.02	.18	.74	.90	.97	.90	.37	.47	.62	.20	.11	.96
4	.02	.18	.74	.90	.97	.90	.37	.46	.62	.20	.11	.96
5	.02	.18	.74	.97	.97	.90	.37	42.61	.60	.20	.11	.96
6	42.92	42.19	42.74	43.03	42.97	42.93	43.37	43.35	42.49	42.20	42.11	41.96
7	.07	.19	.74	.03	43.06	.97	.36	.43	.47	.20	.11	.96
8	.16	.19	.74	.03	.38	.97	.36	.43	.47	.20	.11	.98
9	.16	.25	.74	.03	.38	.97	.36	.43	.47	.20	.11	.98
10	.16	.21	.81	.00	.14	.97	.36	.36	.47	.20	.11	.98
11	42.16	42.19	42.93	42.90	42.90	42.97	43.50	42.89	42.45	42.20	42.10	41.96
12	.36	.28	.93	.90	.90	.97	.44	.86	.26	.11	.10	.96
13	.57	.43	.93	.90	.90	.98	.31	.86	.24	.11	.10	.96
14	.38	.43	.93	.90	.90	.98	.08	.86	.24	.11	.10	42.01
15	.18	.43	.93	.89	.90	.97	42.76	.86	.24	.11	.10	.01
16	42.18	42.24	42.93	42.87	42.90	42.97	43.05	42.86	42.24	42.11	42.10	42.01
17	.18	.16	.93	.87	.90	.97	.11	.86	.24	.11	.10	.01
18	.18	.16	.93	.87	.90	.98	.40	.86	.24	.11	.10	.01
19	.18	.16	.93	.87	.90	.98	.45	.86	.24	.11	.10	.01
20	.18	.16	.93	.87	.90	.99	.45	.85	.24	.11	.10	.01
21	42.18	42.16	42.93	42.87	42.89	43.00	43.46	42.85	42.24	42.11	42.10	.01
22	.18	.16	.92	.87	.90	.00	.45	.85	.24	.11	.10	.01
23	.18	.16	.90	.87	.90	.07	.45	.85	.24	.11	.10	.01
24	.18	.16	.90	.88	.90	42.62	.44	.85	.24	.11	.10	.01
25	.18	.16	.90	.89	.90	.12	.44	.83	.24	.11	.41	.01
26	42.18	42.16	42.90	42.89	42.94	42.13	43.45	42.79	42.24	42.11	42.41	42.01
27	.18	.16	.90	.89	.93	.19	.47	.50	.24	.11	.26	.01
28	.18	.16	.90	.90	.91	43.26	.50	.49	.20	.11	41.96	.01
29	.18	.16	.90	.90	.90	.28	.49	.49	.20	.11	.96	.01
30	.18	.16	.90	.90	.90	.29	.45	.61	.20	.11	-	.01
31	-	.32	-	-	.90	-	.45	-	.20	.11	-	.01
Mean	42.17	42.21	42.86	42.91	42.95	42.89	43.01	42.98	42.34	42.14	42.12	41.99
Max.	42.57	42.43	42.93	43.03	43.38	43.29	43.50	43.47	42.62	42.20	42.41	42.01
Min.	42.02	42.16	42.73	42.87	42.89	42.12	42.76	42.49	42.20	42.11	41.96	41.96

WATER YEAR 1971 : Max. 43.50 m. Min. 41.96 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.76	13	39	49	49	49	80	85	33	14	11	7.24
2	8.76	13	40	49	51	49	80	85	33	14	11	7.24
3	8.76	13	40	49	54	49	80	87	33	14	11	7.24
4	8.76	13	40	49	54	49	80	87	33	14	11	7.24
5	8.76	13	40	54	54	49	80	32	32	14	11	7.24
6	8.76	14	40	57	54	51	80	79	27	14	11	7.24
7	10	14	40	57	59	54	80	84	26	14	11	7.24
8	13	14	40	57	81	54	80	84	26	14	11	7.72
9	13	16	40	57	81	54	80	84	26	14	11	7.72
10	13	14	44	56	65	54	80	80	26	14	11	7.72
11	13	14	51	49	49	54	89	49	25	14	11	7.24
12	21	17	51	49	49	54	85	47	16	11	11	7.24
13	30	24	51	49	49	54	76	47	16	11	11	7.24
14	22	24	51	49	49	54	61	47	16	11	11	8.48
15	13	24	51	49	49	54	41	47	16	11	11	8.48
16	13	16	51	48	49	54	58	47	16	11	11	8.48
17	13	13	51	48	49	54	62	47	16	11	11	8.48
18	13	13	51	48	49	54	82	47	16	11	11	8.48
19	13	13	51	48	49	54	86	47	16	11	11	8.48
20	13	13	51	48	49	55	86	46	16	11	11	8.48
21	13	13	51	48	49	56	87	46	16	11	11	8.48
22	13	13	51	48	49	56	86	46	16	11	11	8.48
23	13	13	49	48	49	60	86	46	16	11	11	8.48
24	13	13	49	48	49	33	85	46	16	11	11	8.48
25	13	13	49	49	49	12	85	45	16	11	23	8.48
26	13	13	49	49	52	12	86	43	16	11	23	8.48
27	13	13	49	49	51	14	87	27	16	11	16	8.48
28	13	13	49	49	50	73	89	27	14	11	7.24	8.48
29	13	13	49	49	49	74	89	27	14	11	7.24	8.48
30	13	13	49	49	49	75	86	32	14	11	–	8.48
31	–	19	–	–	49	–	86	–	14	11	–	8.48
Total	395.56	457	1,407	1,505	1,637	1,518	2,478	1,643	632	374	340.48	248.20
Mean	13.2	14.7	46.9	50.2	52.8	50.6	79.9	54.8	20.4	12.1	117	80.0
Max.	30	24	51	57	81	75	89	87	33	14	23	8.48
Min.	8.76	13	39	48	49	12	41	27	14	11	7.24	7.24
Runoff – mcm.	34.176	39.485	121.565	130.032	141.437	131.155	214.099	141.955	54.605	32.314	29.417	21.444

WATER YEAR 1971 : Max. 89 Min. 7.24 Mean 34.6 Annual Runoff 1,091.685 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.28	21.00	43.56	93				

Phet River at Takhian Ha Bat, Phetchaburi (B. 5)

Location: Lat. 12°-54'-40" N., Long. 99°-38'-38" E., on right bank about 1 kilometer downstream from Kaeng Krachan Reservoir, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,207 sq.km.

Type of Gage: Water-Stage recorder

Zero Gage at Bottom at: + 48.48 m. (M.S.L.)

Bench Mark: B.M. - H.S. No. 11

Location: Infront of B5 Station office
Elevation: + 66.904 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1962 to date

Rating Operation:

Period of Rating: 1962-1967, 1968 to date.
Rated by Float: -
Rated by Current Meter: 1962-1967, 1968 to date.

Stability of Channel Regimes: Fairly stable by some silting, no shifting adjustment for flow computation.

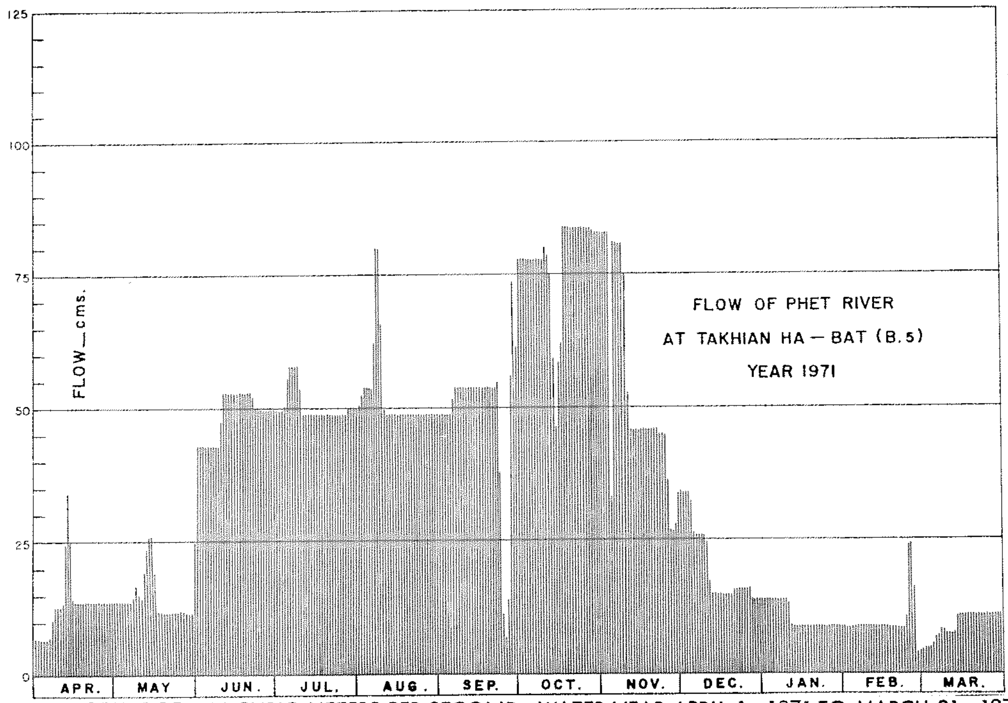
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. Flow regulated by Kaeng Krachan Reservoir. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	48.60	48.91	49.79	49.96	49.96	49.95	50.57	50.65	49.56	48.90	48.68	48.47
2	.60	.91	.79	.96	50.02	.95	.56	.65	.56	.90	.68	.47
3	.60	.91	.79	.96	.06	.95	.56	.66	.56	.90	.68	.47
4	.60	.91	.78	.96	.06	.95	.56	.65	.55	.90	.68	.50
5	.60	.91	.78	50.08	.06	.95	.56	49.61	.49	.90	.69	.58
6	48.60	48.91	49.78	50.15	50.06	50.01	50.56	50.63	49.33	48.90	48.70	47.58
7	.76	.91	.78	.15	.23	.05	.56	.63	.33	.90	.70	.63
8	.87	.95	.78	.15	.61	.05	.56	.63	.33	.90	.70	.67
9	.87	49.02	.78	.15	.61	.05	.56	.63	.33	.90	.69	.64
10	.88	48.95	.92	.04	.24	.05	.56	.48	.33	.90	.68	.62
11	48.88	48.92	50.03	49.95	49.95	50.05	50.61	49.89	49.25	48.96	48.70	48.62
12	49.28	49.14	.03	.95	.95	.05	.57	.87	48.95	.69	.69	.62
13	.54	.33	.03	.95	.95	.05	.50	.87	.95	.69	.69	.65
14	.15	.33	.03	.95	.95	.05	.10	.87	.95	.69	.69	.77
15	48.91	.33	.03	.93	.95	.05	49.82	.87	.95	.69	.69	.77
16	48.91	48.97	50.03	49.93	49.95	50.05	50.18	49.87	48.95	48.69	48.69	48.77
17	.91	.85	.03	.93	.95	.05	.26	.87	.95	.69	.69	.77
18	.91	.85	.03	.93	.95	.05	.68	.87	.95	.69	.68	.77
19	.91	.85	.03	.93	.95	.05	.68	.86	.95	.69	.68	.77
20	.91	.85	.03	.93	.95	.06	.68	.86	.96	.69	.68	.77
21	48.91	48.85	50.03	49.93	49.95	50.06	50.67	49.86	49.00	48.69	48.68	48.77
22	.91	.85	.00	.93	.95	.06	.67	.86	48.99	.69	.68	.77
23	.91	.85	49.97	.93	.95	.07	.67	.84	.99	.69	.68	.77
24	.91	.85	.96	.93	.95	49.33	.67	.84	.99	.69	.80	.77
25	.91	.85	.96	.95	.95	48.61	.67	.84	.99	.69	49.27	.77
26	48.91	48.85	49.96	49.95	49.95	48.62	50.67	49.73	48.99	48.69	49.27	48.77
27	.91	.85	.96	.95	.95	49.07	.67	.34	.97	.69	48.94	.77
28	.91	.85	.96	.96	.95	50.49	.67	.34	.90	.69	.43	.77
29	.91	.85	.96	.96	.95	.39	.66	.38	.90	.69	.44	.78
30	.91	.85	.96	.96	.95	.22	.65	.56	.90	.69	-	.78
31	-	49.26	-	.96	.95	-	.65	-	.90	.68	-	.78
Mean	48.8[illegible]	48.95	49.93	49.98	50.03	49.91	50.55	50.05	49.12	48.76	48.72	48.69
Max.	49.54	49.33	50.03	50.15	50.61	50.49	50.68	50.66	49.56	48.90	49.27	48.78
Min.	48.60	48.85	49.78	49.93	49.95	48.61	49.82	49.34	48.90	48.68	48.43	48.47

WATER YEAR 1971 : Max. 50.68 m. Min. 48.43 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.00	14	43	50	50	49	78	83	34	14	8.60	4.65
2	7.00	14	43	50	52	49	78	83	34	14	8.60	4.65
3	7.00	14	43	50	54	49	78	83	34	14	8.60	4.65
4	7.00	14	43	50	54	49	78	83	34	14	8.60	5.00
5	7.00	14	43	55	54	49	78	36	32	14	8.80	6.60
6	7.00	14	43	58	54	52	78	81	26	14	9.00	6.60
7	10	14	43	58	62	54	78	81	26	14	9.00	7.60
8	13	15	43	58	80	54	78	81	26	14	9.00	8.40
9	13	17	43	58	80	54	78	81	26	14	6.80	7.80
10	13	15	48	53	62	54	78	74	26	14	8.60	7.40
11	13	14	53	49	49	54	80	47	24	13	9.00	7.40
12	25	21	53	49	49	54	78	46	15	8.80	8.80	7.40
13	34	26	53	49	49	54	74	46	15	8.80	8.80	8.00
14	21	26	53	49	49	54	56	46	15	8.80	8.80	11
15	14	26	53	49	49	54	44	46	15	8.80	8.80	11
16	14	16	53	49	49	54	59	46	15	8.80	8.80	11
17	14	12	53	49	49	54	63	46	15	8.80	8.80	11
18	14	12	53	49	49	54	84	46	15	8.80	8.60	11
19	14	12	53	49	49	54	84	46	15	8.80	8.60	11
20	14	12	53	49	49	54	84	46	15	8.80	8.60	11
21	14	12	53	49	49	54	84	46	16	8.80	8.60	11
22	14	12	52	49	49	54	84	45	16	8.80	8.60	11
23	14	12	50	49	49	55	84	45	16	8.80	8.60	11
24	14	12	50	49	49	26	84	45	16	8.80	11	11
25	14	12	50	49	49	7.20	84	45	16	8.80	24	11
26	14	12	50	49	49	7.20	84	41	16	8.80	24	11
27	14	12	50	49	49	18	84	27	16	8.80	15	11
28	14	12	50	50	49	74	84	27	14	8.80	3.95	11
29	14	12	50	50	49	69	83	28	14	8.80	4.10	11
30	14	12	50	50	49	61	83	34	14	8.80	–	11
31	–	14	–	50	49	–	83	–	14	8.60	–	11
Total	408	466	1,470	1,573	1,631	1,478.40	2,407	1,611	625	328.80	283.05	284.15
Mean	13.6	15.0	49.0	50.7	52.6	49.3	77.6	53.7	20.2	10.6	9.76	9.17
Max.	34	26	53	58	80	74	84	83	34	14	24	11
Min.	7.00	12	43	49	49	7.20	44	27	14	8.60	3.95	4.65
Runoff – mcm.	25.251	40.212	127.008	135.907	140.918	127.734	207.965	139.190	54.000	28.408	24.455	24.550

WATER YEAR 1971 : Max. 84 Min. 3.95 Mean 34.3 Annual Runoff 1,085.650 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 26	15.00	50.71	86				

Huai Mae Prachan at Highway Bridge, Phetchaburi (B. 6)

Location: Lat. 12^0–55'–56" N., Long. 99^0–47'–05" E., on left bank about 250 meters upstream from the bridge on country road Khuan Phet – Kaeng Krachan reservoir, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 1,015 sq.km.

Type of Gage: Water-Stage recorder

Zero Gage at Bottom at: + 22.71 m. (M.S.L.)

Bench Mark: B.M. – H.S./R.I.D.

Location: Near the automatic gage building
Elevation: + 30.274 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: 1941–1942, 1961 to date.

Rating Operation:

Period of Rating: 1961–1962, 1964 to date.
Rated by Float: –
Rated by Current Meter: 1961–1962, 1964 to date.

Stability of Channel Regimes: Fairly Stable with variable water surface slope, no shifting adjustment for flow computation.

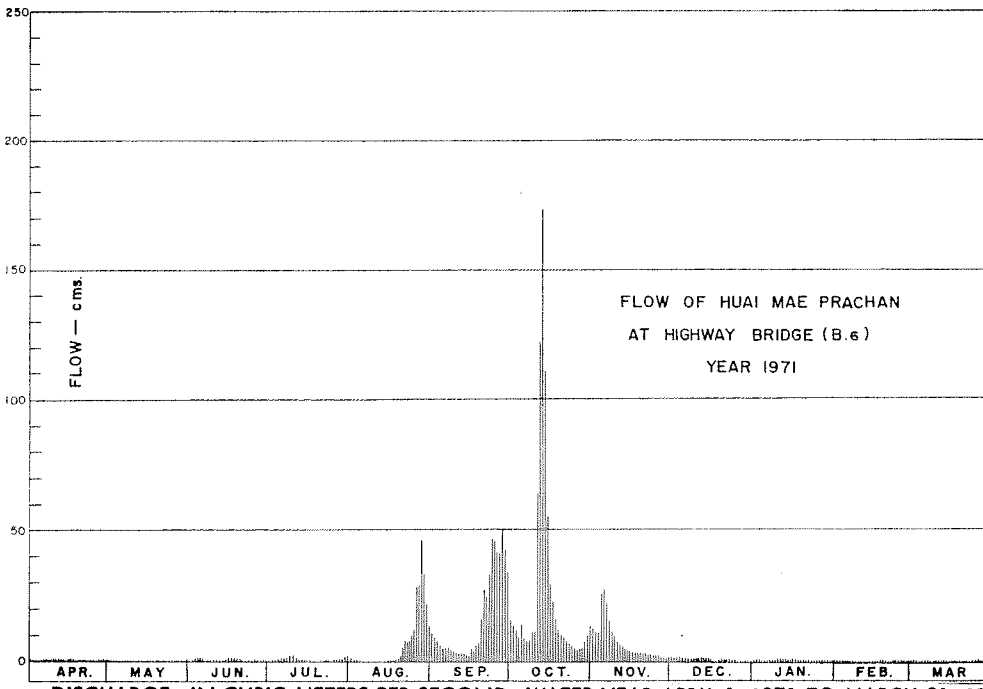
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No 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, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.46	23.39	23.56	23.51	23.73	24.32	24.62	24.46	23.70	23.55	23.51	23.44
2	.44	.38	.53	.51	.67	.23	.47	.42	.69	.55	.51	.44
3	.42	.38	.59	.52	.61	.17	.39	.44	.69	.54	.50	.44
4	.40	.38	.66	.54	.58	.11	.28	.91	.68	.54	.49	.44
5	.39	.45	.62	.68	.56	.07	.51	.94	.67	.54	.49	.43
6	23.39	23.55	23.59	23.54	23.54	24.03	24.38	24.77	23.66	23.53	23.48	23.43
7	.38	.55	.55	.71	.52	.02	.20	.50	.65	.53	.48	.43
8	.37	.52	.53	.83	.51	23.99	.17	.36	.64	.53	.48	.43
9	.37	.48	.52	.77	.50	.94	.42	.25	.63	.52	.47	.43
10	.40	.47	.51	.71	.52	.89	.22	.18	.62	.52	.47	.43
11	23.42	23.55	23.50	23.69	23.50	23.88	25.37	24.12	23.62	23.52	23.46	23.43
12	.41	.48	.50	.72	.50	.86	26.86	.06	.61	.52	.48	.43
13	.40	.47	.49	.91	.49	.83	27.35	.01	.61	.52	.49	.44
14	.40	.47	.49	.82	.50	.81	26.11	23.98	.61	.51	.49	.44
15	.43	.47	.54	.74	.49	.88	25.38	.96	.60	.50	.49	.44
16	23.56	23.46	23.66	23.69	23.50	24.01	24.96	23.92	23.59	23.50	23.49	23.43
17	.57	.46	.68	.65	.51	23.95	.69	.89	.59	.50	.49	.44
18	.53	.47	.65	.62	.52	24.17	.52	.87	.58	.50	.48	.44
19	.50	.49	.62	.60	.67	.23	.46	.85	.58	.50	.48	.44
20	.48	.47	.59	.58	.78	.82	.38	.83	.58	.50	.48	.43
21	23.45	23.47	23.57	23.56	24.12	24.94	24.31	23.81	23.57	23.50	23.47	23.42
22	.44	.48	.55	.55	.23	.82	.24	.79	.57	.50	.47	.42
23	.44	.47	.54	.55	.15	25.11	.19	.77	.57	.49	.45	.42
24	.43	.46	.53	.57	.29	.39	.14	.75	.56	.50	.45	.42
25	.42	.45	.54	.57	.45	.36	.10	.73	.56	.52	.45	.42
26	23.40	23.45	23.62	23.56	24.93	25.26	24.07	23.72	23.55	23.52	23.44	23.42
27	.40	.48	.54	.57	.99	.29	.05	.71	.55	.52	.44	.42
28	.40	.46	.50	.64	25.37	.45	.11	.70	.55	.52	.44	.41
29	.40	.45	.50	.67	.07	.27	.31	.70	.55	.51	.44	.41
30	.39	.51	.50	.71	24.67	24.92	.39	.70	.55	.51	–	.41
31	–	.65	–	.76	.46	–	.49	–	.55	.51	–	.41
Mean	23.42	23.47	23.55	23.64	23.93	24.49	24.61	24.29	23.58	23.51	23.47	23.43
Max.	23.57	23.65	23.68	23.91	25.37	25.45	27.35	24.94	23.70	23.55	23.51	23.44
Min.	23.37	23.38	23.49	23.51	23.49	23.81	24.05	23.70	23.55	23.49	23.44	23.41

WATER YEAR 1971 : Max. 27.35 m. Min. 23.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.09	0.76	0.46	2.10	10	18	13	1.80	0.70	0.46	0.22
2	0.22	0.08	0.58	0.46	1.56	8.60	14	12	1.72	0.70	0.46	0.22
3	0.16	0.08	0.94	0.52	1.08	7.52	12	13	1.72	0.64	0.40	0.22
4	0.10	0.08	1.48	0.64	0.88	6.56	9.60	27	1.68	0.64	0.36	0.22
5	0.09	0.25	1.16	1.64	0.76	5.98	15	28	1.56	0.64	0.36	0.19
6	0.09	0.70	0.94	1.16	0.64	5.42	12	22	1.48	0.58	0.34	0.19
7	0.08	0.70	0.70	1.90	0.52	5.28	8.00	14	1.40	0.58	0.34	0.19
8	0.07	0.52	0.58	3.10	0.46	4.88	7.52	11	1.32	0.58	0.34	0.19
9	0.07	0.34	0.52	2.50	0.40	4.28	12	9.00	1.24	0.52	0.31	0.19
10	0.10	0.31	0.46	1.90	0.52	3.70	8.40	7.68	1.16	0.52	0.31	0.19
11	0.16	0.70	0.40	1.72	0.40	3.60	46	6.72	1.16	0.52	0.28	0.19
12	0.13	0.34	0.40	2.00	0.40	3.40	133	5.84	1.08	0.52	0.34	0.19
13	0.10	0.31	0.36	3.91	0.36	3.10	173	5.14	1.08	0.52	0.36	0.22
14	0.10	0.31	0.36	3.00	0.40	2.90	84	4.76	1.08	0.46	0.36	0.22
15	0.19	0.31	0.64	2.20	0.36	3.60	46	4.52	1.00	0.40	0.36	0.22
16	0.76	0.46	1.48	1.72	0.40	5.14	29	4.04	0.94	0.40	0.36	0.19
17	0.82	0.46	1.64	1.40	0.46	4.40	20	3.70	0.94	0.40	0.36	0.22
18	0.58	0.31	1.40	1.16	0.52	7.52	15	3.50	0.88	0.40	0.34	0.22
19	0.40	0.36	1.16	1.00	1.56	8.60	13	3.30	0.88	0.40	0.34	0.22
20	0.38	0.31	0.94	0.88	2.60	24	12	3.10	0.88	0.40	0.34	0.19
21	0.25	0.31	0.82	0.76	6.72	28	10	2.90	0.82	0.40	0.31	0.16
22	0.22	0.34	0.70	0.70	8.60	24	8.80	2.70	0.82	0.40	0.31	0.16
23	0.22	0.31	0.64	0.70	7.20	35	7.84	2.50	0.82	0.36	0.25	0.16
24	0.19	0.28	0.58	0.82	9.80	47	7.04	2.30	0.76	0.40	0.25	0.16
25	0.16	0.25	0.64	0.82	13	46	6.40	2.10	0.76	0.52	0.25	0.16
26	0.10	0.25	1.16	0.76	28	41	5.98	2.00	0.70	0.52	0.22	0.16
27	0.10	0.34	0.64	0.82	30	43	5.70	1.90	0.70	0.52	0.22	0.16
28	0.10	0.28	0.40	1.32	46	50	6.56	1.80	0.70	0.52	0.22	0.13
29	0.10	0.25	0.40	1.56	33	42	10	1.80	0.70	0.46	0.22	0.13
30	0.09	0.46	0.40	1.90	19	27	12	1.80	0.70	0.46	–	0.13
31	–	1.40	–	2.40	13	–	14	–	0.70	0.46	–	0.13
Total	6.41	11.49	23.28	45.83	230.70	511.48	781.84	223.10	33.18	15.54	9.15	5.74
Mean	0.21	0.37	0.77	1.47	7.44	17.0	25.2	7.44	1.07	0.50	0.32	0.18
Max.	0.82	1.40	1.64	3.91	46	50	173	28	1.80	0.70	0.46	0.22
Min.	0.07	0.08	0.36	0.46	0.36	2.90	5.70	1.80	0.70	0.36	0.22	0.13
Runoff - mcm.	0.553	0.992	2.011	3.959	19.932	44.191	67.550	19.275	2.866	1.342	0.809	0.495

WATER YEAR 1971 : Max. 173 Min. 0.07 Mean 5.12 Annual Runoff 162.100 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	02.00	27.63	201				

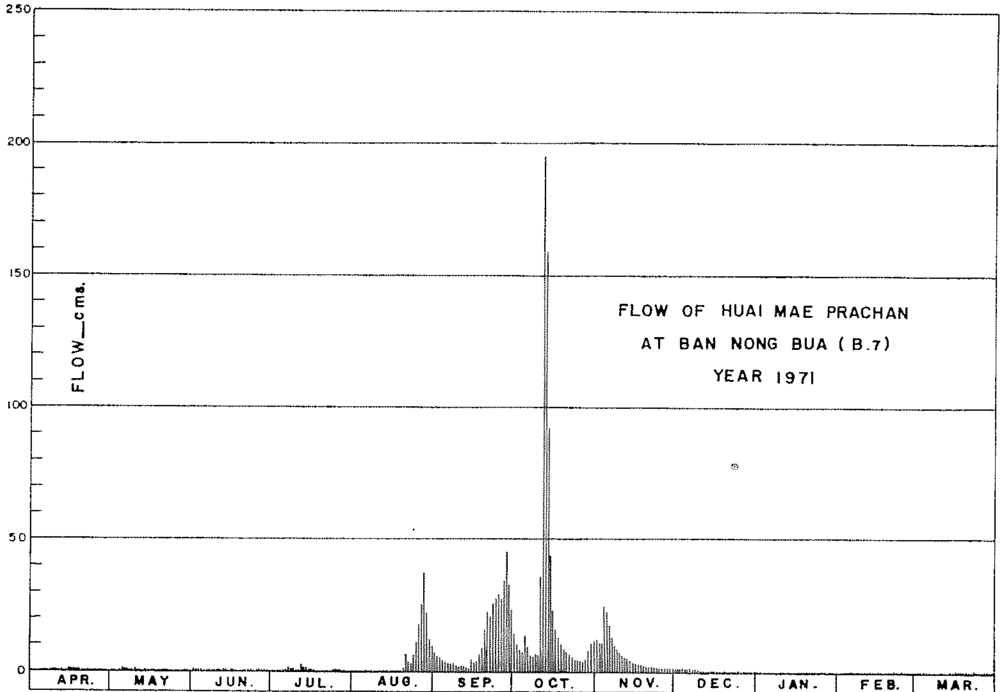
Huai Mae Prachan at Ban Nong Bua, Phetchaburi (B. 7)

Location:	Lat. 13°-01'-45" N., Long. 99°-44'-00" E., on left bank at Ban Nong Bua, Amphoe Tha Yang, Phetchaburi.
Drainage Area:	846 Sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Infront of B7 Station office.
Elevation:	+ 10.495 m. (A.D.)
Gage Reading Frequency:	16-time daily readings at 01.00, 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:	1967 to date.
Rating Operation:	
Period of Rating:	1967 to date.
Rated by Float:	-
Rated by Current Meter:	1967 to date.
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation and including overbank flow.
Overbank Flow Conditions:	Overbank flow starts at elevation + 6.65 m. (A.D.)
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.97	0.96	1.05	1.03	1.18	2.22	2.79	2.73	1.33	1.06	0.94	0.88
2	.97	.98	.14	.03	.15	.05	.51	.62	.32	.06	.93	.88
3	.97	.97	.21	.06	.12	1.96	.33	.61	.31	.06	.92	.80
4	.97	1.11	.16	.19	.09	.81	.26	3.52	.29	.06	.91	.92
5	.96	.23	.11	.12	.06	.77	.88	.46	.27	.06	.91	.94
6	0.96	1.17	1.06	1.26	1.04	1.68	2.40	3.04	1.26	1.05	0.92	0.94
7	.96	.12	.04	.48	.03	.72	.10	2.75	.25	.04	.91	.94
8	.97	.07	.03	.33	.02	.65	.03	.52	.24	.03	.91	.94
9	1.05	.08	.03	.23	.01	.55	.22	.34	.23	.03	.91	.94
10	.03	.22	.01	.21	.00	.48	.09	.20	.21	.02	.90	.94
11	1.01	1.05	1.01	1.20	0.99	1.52	4.15	2.09	1.20	1.02	0.92	0.93
12	0.99	.05	.01	.61	.98	.45	7.43	1.99	.19	.02	.94	.93
13	1.00	.06	.03	.42	.98	.41	6.54	.91	.19	.02	.92	.93
14	.07	.04	.09	.31	.99	.43	4.83	.84	.18	.01	.92	.93
15	.26	.02	.21	.23	.98	.82	3.81	.77	.17	.00	.91	.93
16	1.24	1.01	1.19	1.18	0.98	1.68	3.18	1.72	1.15	1.01	0.91	0.93
17	.17	.00	.17	.14	.99	.85	2.84	.66	.13	0.99	.91	.93
18	.11	.00	.15	.11	.15	2.21	.66	.62	.13	.99	.90	.93
19	.07	0.99	.12	.08	.13	.39	.46	.59	.12	.99	.90	.93
20	.05	.99	.10	.06	.46	3.05	.34	.55	.11	.98	.90	.92
21	1.05	1.12	1.08	1.05	2.14	3.41	2.21	1.52	1.10	0.98	0.90	0.91
22	.05	.03	.06	.05	1.79	.35	.09	.49	.09	.98	.89	.91
23	.02	.01	.05	.07	.74	.60	.01	.46	.08	.98	.90	.91
24	0.99	0.99	.03	.06	2.25	.67	1.92	.44	.08	.97	.89	.91
25	.98	.99	.04	.06	.75	.78	.85	.42	.08	.98	.89	.90
26	0.96	0.98	1.04	1.05	3.23	3.70	1.81	1.40	1.07	0.98	0.89	0.90
27	.97	.98	.03	.04	.68	.95	.78	.39	.07	.95	.89	.90
28	.99	1.04	.02	.04	4.08	4.39	.82	.37	.06	.95	.88	.90
29	.97	.05	.01	.05	3.34	3.88	2.32	.36	.06	.95	.88	.90
30	.95	.05	.00	.04	2.78	.27	.59	.34	.06	.95		.90
31		.04		.04	2.45		.72		.06	.94		.90
Mean	1.02	0.95	1.07	1.15	1.66	2.45	2.70	1.99	1.20	1.00	0.90	0.91
Max.	1.26	1.23	1.21	1.61	4.08	4.39	7.43	3.52	1.33	1.06	0.94	0.94
Min.	0.95	0.96	1.00	1.03	0.98	1.41	1.78	1.34	1.06	0.94	0.88	0.88

WATER YEAR 1971 : Max. 7.43 m. Min. 0.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.34	0.32	0.50	0.46	0.84	7.36	13	13	1.42	0.52	0.28	0.18
2	0.34	0.36	0.72	0.46	0.75	6.00	10	11	1.38	0.52	0.26	0.18
3	0.34	0.34	0.94	0.52	0.66	5.28	8.30	11	1.34	0.52	0.24	0.18
4	0.34	0.63	0.78	0.87	0.58	4.08	7.68	25	1.26	0.52	0.22	0.24
5	0.32	1.02	0.63	0.66	0.52	3.82	14	23	1.18	0.52	0.22	0.28
6	0.32	0.81	0.52	1.14	0.48	3.28	9.00	17	1.14	0.50	0.24	0.28
7	0.32	0.66	0.48	2.10	0.46	3.52	6.40	13	1.10	0.48	0.22	0.28
8	0.34	0.54	0.46	1.42	0.44	3.10	5.84	10	1.06	0.46	0.22	0.28
9	0.50	0.56	0.45	1.02	0.42	2.50	7.36	8.40	1.02	0.46	0.22	0.28
10	0.46	0.98	0.42	0.94	0.40	2.10	6.32	7.20	0.94	0.44	0.20	0.28
11	0.42	0.50	0.42	0.90	0.38	2.32	39	6.32	0.90	0.44	0.24	0.26
12	0.38	0.50	0.82	2.86	0.36	1.95	195	5.52	0.87	0.44	0.28	0.26
13	0.40	0.52	0.46	1.80	0.36	1.75	132	4.88	0.87	0.44	0.24	0.26
14	0.54	0.48	0.58	1.34	0.38	1.85	59	4.32	0.84	0.42	0.24	0.26
15	1.14	0.44	0.94	1.02	0.35	4.16	31	3.82	0.81	0.40	0.22	0.26
16	1.06	0.42	0.87	0.84	0.36	3.28	19	3.52	0.75	0.42	0.22	0.26
17	0.81	0.40	0.81	0.72	0.38	4.40	14	3.16	0.69	0.38	0.22	0.26
18	0.63	0.40	0.75	0.63	0.75	7.28	12	2.92	0.69	0.38	0.20	0.26
19	0.54	0.38	0.66	0.56	0.69	8.90	9.60	2.74	0.66	0.38	0.20	0.26
20	0.50	0.38	0.60	0.52	2.00	17	8.40	2.50	0.63	0.36	0.20	0.24
21	0.50	0.66	0.56	0.50	6.72	23	7.28	2.32	0.60	0.36	0.20	0.22
22	0.50	0.46	0.52	0.50	3.94	21	6.32	2.15	0.58	0.36	0.19	0.22
23	0.44	0.42	0.50	0.54	3.64	26	5.68	2.00	0.56	0.36	0.20	0.22
24	0.38	0.38	0.46	0.52	7.60	28	4.96	1.90	0.56	0.34	0.19	0.22
25	0.36	0.38	0.48	0.52	13	30	4.40	1.80	0.56	0.36	0.19	0.20
26	0.32	0.36	0.48	0.50	19	28	4.08	1.70	0.54	0.36	0.19	0.20
27	0.34	0.36	0.46	0.48	28	34	3.88	1.66	0.54	0.30	0.19	0.20
28	0.38	0.48	0.44	0.48	37	45	4.16	1.58	0.52	0.30	0.18	0.20
29	0.34	0.50	0.42	0.50	21	32	8.20	1.54	0.52	0.30	0.18	0.20
30	0.30	0.50	0.40	0.48	13	20	11	1.34	0.52	0.30	–	0.20
31	–	0.48	–	0.48	9.50	–	12	–	0.52	0.28	–	0.20
Total	13.90	15.62	17.14	26.28	173.97	380.93	678.86	196.29	25.57	12.62	6.29	7.32
Mean	0.46	0.50	0.57	0.84	5.61	12.69	21.89	6.54	0.82	0.40	0.21	0.23
Max.	1.14	1.02	0.94	2.86	37	45	195	25	1.42	0.52	0.28	0.28
Min.	0.30	0.32	0.40	0.46	0.36	1.75	3.88	1.34	0.52	0.28	0.18	0.18
Runoff - mcm.	1.201	1.350	1.481	2.271	15.031	32.912	58.654	16.959	2.209	1.090	0.543	0.632

WATER YEAR 1971 : Max. 195 Min. 0.18 Mean 4.25 Annual Runoff 134.333 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.12	17.00	7.78	235				

PRAN RIVER BASIN

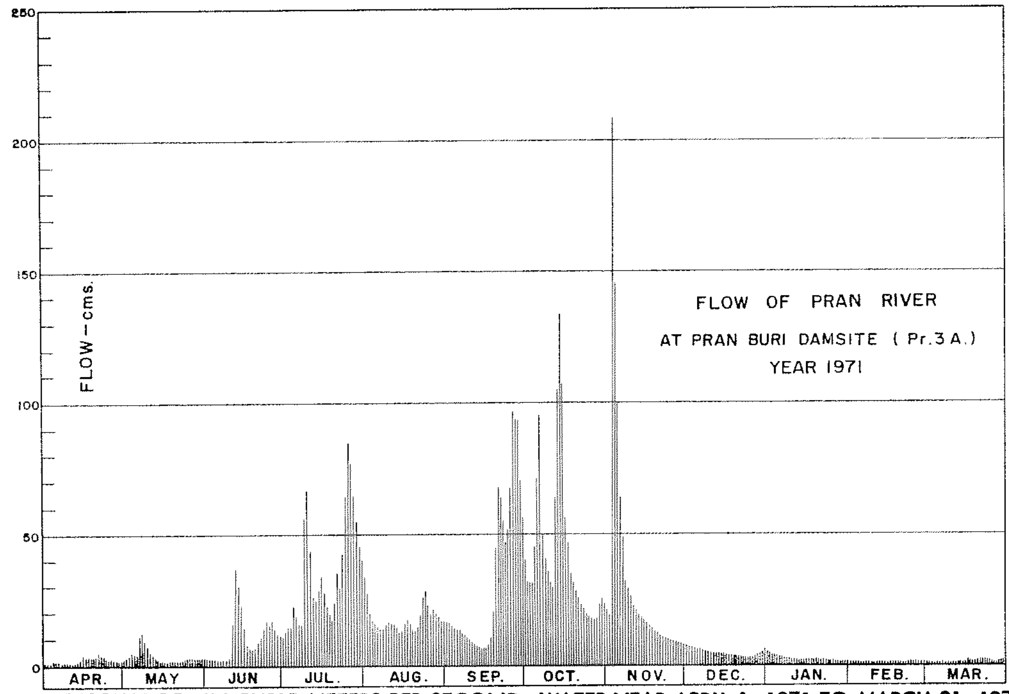
Pran River at Irr. Pran Buri, Prachuap Khiri Khan (Pr.3A)

Location:	Lat. 12°-23'-59" N., Long. 99°-48'-37" E., on right bank about 1.5 kilometers downstream from Pran Damsite, Amphoe Pran Buri, Prachuap Khiri Khan.
Drainage Area:	2,067 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 13.800 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	Near automatic gage building.
Elevation:	+ 26.267 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:	1968 to date
Rating Operation:	
Period of Rating:	1968 to date
Rated by Float:	-
Rated by Current Meter:	1968 to date
Stability of Channel Regimes:	Fairly Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage discharge relationship used is defined by discharge measurements made during 1971. No upstream state diversions for irrigation except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15.47	15.57	15.73	16.26	17.11	16.58	17.48	16.76	15.94	15.75	15.48	15.39
2	.45	.71	.71	.42	16.89	.52	.23	.68	.92	.70	.47	.38
3	.45	.83	.67	.42	.73	.48	.20	.82	.89	.68	.47	.36
4	.51	.82	.67	.45	.60	.45	.22	21.44	.88	.65	.46	.25
5	.50	.77	.64	.85	.51	.41	18.48	19.76	.86	.64	.45	.27
6	15.50	15.80	15.61	16.71	16.44	16.42	19.21	18.36	15.85	15.63	15.45	15.29
7	.50	16.31	.60	.54	.42	.35	18.21	17.78	.84	.62	.45	.30
8	.47	.40	.58	.47	.44	.30	17.65	.31	.82	.61	.44	.30
9	.46	.03	.58	18.10	.53	.23	.40	.07	.81	.60	.44	.30
10	.48	15.85	.62	.41	.57	.17	.18	16.89	.80	.59	.43	.30
11	15.46	15.85	16.18	17.74	16.54	16.12	17.07	16.75	15.79	15.58	15.43	15.30
12	.46	.75	.68	.27	.51	.08	.74	.65	.77	.57	.43	.31
13	.49	.69	17.40	16.98	.43	.03	19.57	.53	.76	.57	.43	.32
14	.65	.63	.12	.89	.38	.01	20.06	.48	.74	.56	.43	.31
15	.76	.59	16.60	17.09	.38	.01	18.95	.43	.73	.56	.42	.31
16	15.74	15.57	16.30	17.31	16.45	16.03	18.16	16.37	15.72	15.55	15.42	15.33
17	.69	.58	.11	.05	.63	.12	17.70	.32	.71	.55	.42	.57
18	.77	.60	15.99	16.79	.59	.28	.41	.27	.70	.54	.41	.43
19	.74	.58	.93	.64	.44	.61	.22	.22	.69	.54	.40	.42
20	.70	.58	.94	.57	.36	18.36	.10	.19	.68	.53	.40	.44
21	15.86	15.60	16.12	16.97	16.36	18.48	16.99	16.16	15.67	15.53	15.39	15.49
22	.73	.58	.30	17.38	.57	.33	.90	.13	.67	.52	.39	.51
23	.63	.59	.37	.10	.97	17.79	.81	.10	.66	.51	.39	.48
24	.58	.61	.56	.54	17.06	.72	.75	.06	.65	.51	.48	.45
25	.56	.68	.52	18.54	16.85	18.22	.66	.04	.65	.50	.47	.43
26	15.62	15.70	16.48	18.96	16.67	19.27	16.62	16.01	15.64	15.50	15.45	15.40
27	.59	.72	.56	.55	.80	.17	.61	15.99	.64	.49	.43	.38
28	.58	.68	.39	.20	.78	.18	.61	.98	.68	.49	.41	.37
29	.56	.72	.33	17.97	.70	18.48	.93	.96	.77	.48	.40	.44
30	.54	.71	.27	.72	.58	17.87	17.01	.95	.81	.48	-	.52
31	-	.69	-	.40	.57	-	16.87	-	.83	.48	-	.49
Mean	15.58	15.74	16.15	17.27	16.61	17.07	17.52	16.78	15.76	15.56	15.43	15.38
Max.	15.86	16.40	17.40	18.96	17.11	19.27	20.06	21.44	15.94	15.75	15.48	15.57
Min.	15.45	15.57	15.58	16.26	16.36	16.01	16.61	15.95	15.64	15.48	15.39	15.25

WATER YEAR 1971 : Max. 21.44 m. Min. 15.25 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.29	2.06	3.53	11	29	17	39	21	8.04	5.05	1.72	0.94
2	1.15	3.31	3.31	14	24	16	32	19	7.72	4.30	1.63	0.88
3	1.15	4.66	2.93	14	20	15	31	22	7.24	4.04	1.63	0.76
4	1.58	4.54	2.93	14	17	14	32	208	7.08	3.65	1.54	0.20
5	1.50	3.97	2.66	23	16	14	68	118	6.76	3.52	1.45	0.28
6	1.50	4.30	2.39	20	14	14	94	65	6.60	3.39	1.45	0.36
7	1.50	12	2.30	16	14	12	60	48	6.44	3.26	1.45	0.40
8	1.29	13	2.14	15	14	12	44	34	6.12	3.13	1.36	0.40
9	1.22	7.22	2.14	57	16	10	37	29	5.96	3.00	1.36	0.40
10	1.36	6.54	2.48	66	17	9.32	31	26	5.80	2.89	1.27	0.40
11	1.22	4.90	9.48	45	16	8.52	28	23	5.65	2.78	1.27	0.40
12	1.22	3.75	19	33	16	7.92	46	21	5.35	2.67	1.27	0.46
13	1.43	3.11	37	26	14	7.22	109	19	5.20	2.67	1.27	0.52
14	2.75	2.57	29	24	13	6.94	133	18	4.90	2.56	1.27	0.46
15	3.86	2.22	17	28	13	6.94	85	17	4.75	2.56	1.18	0.46
16	3.64	2.06	12	34	14	7.22	59	16	4.60	2.45	1.18	0.58
17	3.11	2.14	8.36	27	18	8.52	45	15	4.45	2.45	1.18	2.67
18	3.97	2.30	6.67	21	17	11	37	14	4.30	2.34	1.09	1.27
19	3.64	2.14	5.89	18	14	18	32	13	4.17	2.34	1.00	1.18
20	3.20	2.14	6.02	17	13	65	29	12	4.04	2.23	1.00	1.36
21	5.02	2.30	8.52	26	13	68	26	12	3.91	2.12	0.94	1.81
22	3.53	2.14	12	36	17	64	24	11	3.91	2.12	0.94	2.01
23	2.57	2.22	13	29	26	48	22	11	3.78	2.01	0.94	1.72
24	2.14	2.39	17	41	28	46	21	10	3.65	2.01	1.72	1.45
25	1.98	3.02	16	70	23	60	19	9.68	3.65	1.90	1.63	1.27
26	2.48	3.20	15	85	19	97	18	9.17	3.52	1.90	1.45	1.00
27	2.22	3.42	17	71	22	93	18	8.84	3.52	1.81	1.27	0.88
28	2.14	3.02	13	60	21	93	18	8.68	4.04	1.81	1.09	0.82
29	1.98	3.42	12	53	19	68	25	8.36	5.35	1.72	1.00	1.36
30	1.82	3.31	11	46	17	50	26	8.20	5.96	1.72	–	2.12
31	–	3.11	–	37	17	–	23	–	6.28	1.72	–	1.81
Total	67.46	120.48	311.75	1,077	551	967.60	1,311	854.93	162.74	82.12	37.55	30.63
Mean	2.25	3.89	10.4	34.7	17.8	32.2	42.3	28.5	5.25	2.65	1.29	0.99
Max.	5.02	13	37	85	29	97	133	208	8.04	5.05	1.72	2.67
Min.	1.15	2.06	2.14	11	13	6.94	18	8.20	3.52	1.72	0.94	0.20
Runoff – MCM.	5.828	10.409	26.935	93.053	47.606	83.601	113.270	73.866	14.061	7.095	3.244	2.646

WATER YEAR 1971 : Max. 208 Min. 0.20 Mean 15.2 Annual Runoff 481.616 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 4	08.00	22.74	293				

Khlong Phum Duang at Ban Tha Tun, Surat Thani (X. 6B)

Location: Lat. 9°-03'-57" N., Long. 99°-02'-58" E., on right bank about 2 kilometers upstream from X6A station at Ban Tha Tun, Amphoe Khiri Ratthani Khom, Surat Thani.

Drainage Area: 4,415 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 0.030 m. (M.S.L.)

Bench Mark: B.M. - X6B

Location: Along the measuring line about 8 meters upstream from the top gage.
Elevation: + 8.720 m. (M.S.L.)

Gage Reading Frequency: 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1969 to date

Rating Operation:

Period of Rating: 1969 to date
Rated by Float: -
Rated by Current Meter: 1969 to date

Stability of Channel Regimes: Fairly stable by some scouring, no shifting adjustment for flow computation.

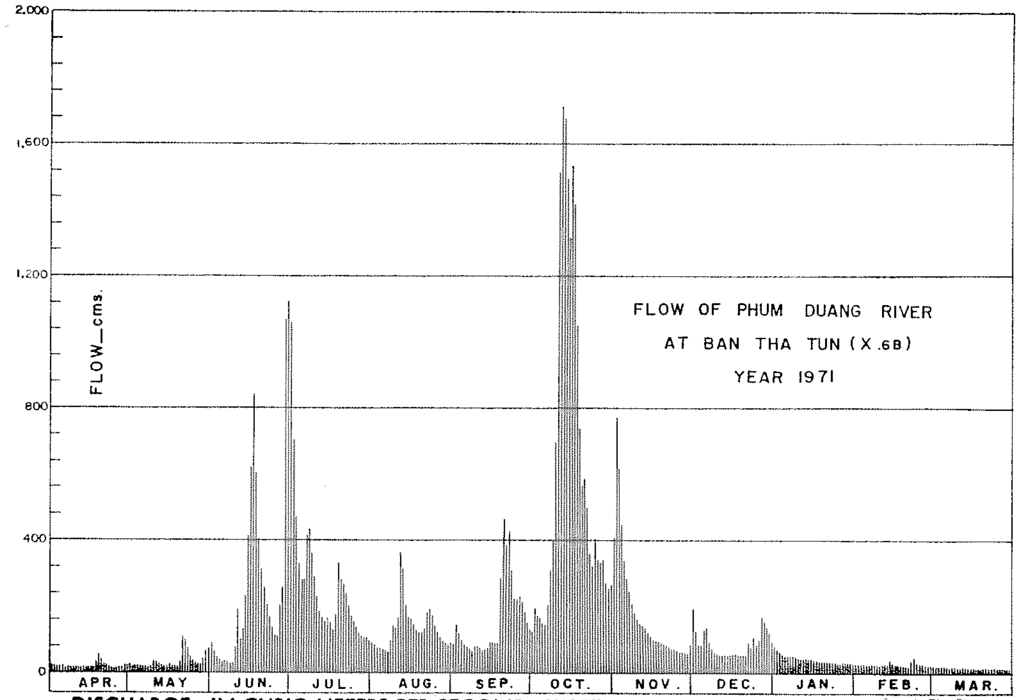
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.05	1.15	1.73	6.31	1.73	1.76	2.07	3.89	2.51	1.69	1.18	1.08
2	.04	.06	.50	5.16	.72	2.17	.53	5.32	.05	.59	.17	.07
3	.04	.10	.35	3.98	.66	1.98	.34	4.64	1.74	.54	.16	.07
4	.07	.11	.25	.38	.60	.82	.34	3.73	.69	.45	.15	.08
5	.08	.08	.23	.05	.61	.73	.18	.36	2.08	.42	.15	.07
6	1.04	1.07	1.24	3.04	1.56	1.64	2.20	3.03	2.13	1.41	1.14	1.06
7	.03	.05	.20	.78	.56	.60	.71	2.77	1.77	.41	.13	.05
8	.02	.03	.18	.90	.82	.58	3.28	.58	.64	.45	.13	.05
9	.02	.07	.16	.52	2.17	.68	.89	.42	.55	.41	.13	.04
10	.01	.29	.61	.09	.10	.72	5.88	.29	.52	.38	.13	.04
11	1.01	1.22	2.48	2.73	2.45	1.66	7.49	2.19	1.48	1.35	1.18	1.03
12	.02	.14	1.84	.45	3.50	.54	.90	.16	.46	.34	.16	.03
13	.03	.12	2.06	.31	.00	.60	.83	.07	.47	.33	.17	.02
14	.02	.08	.84	.23	2.51	.67	.47	1.97	.45	.34	.31	.04
15	.02	.11	3.74	.32	.31	.77	.05	.91	.48	.32	.20	.02
16	1.02	1.16	4.89	2.23	2.30	1.78	7.54	1.85	1.47	1.31	1.16	1.01
17	.03	.08	5.57	.03	.11	.76	.26	.83	.52	.29	.13	.01
18	.21	.08	4.48	.40	.03	.79	6.17	.79	.47	.27	.12	.01
19	.45	.06	3.47	3.34	1.98	2.88	5.00	.77	.44	.26	.11	.01
20	.23	.25	.15	.05	2.04	4.03	4.50	.74	.43	.25	.10	.00
21	1.14	1.92	2.88	2.98	2.15	3.60	4.59	1.71	1.47	1.24	1.09	1.00
22	.11	.82	.61	.81	.48	.82	3.94	.65	.81	.23	.32	.00
23	.05	.60	.34	.56	.50	.33	.51	.64	.66	.23	.37	.01
24	.03	.40	.11	.37	.31	2.70	.27	.61	.94	.22	.20	0.99
25	.01	.27	1.95	.23	.08	.69	.74	.59	.70	.21	.16	.99
26	1.03	1.20	1.93	2.10	1.96	2.27	3.38	1.57	1.87	1.20	1.14	0.98
27	.04	.15	2.58	1.98	.87	.65	.35	.55	2.37	.23	.10	.98
28	.03	.19	5.37	.91	.79	.45	.42	.53	.29	.23	.09	.99
29	.12	.38	6.29	.89	.75	.18	.00	.51	.15	.21	.09	1.01
30	.22	.59	.52	.90	.70	.03	2.89	.77	.09	.20		.01
31		.61		.79	.77		.97		1.81	.19		.01
Mean	1.07	1.24	2.75	2.80	1.81	2.21	4.38	2.31	1.76	1.33	1.16	1.02
Max.	1.45	1.92	6.52	6.31	3.50	4.03	7.90	5.32	2.51	1.69	1.37	1.08
Min.	1.01	1.03	1.16	1.79	1.56	1.54	2.07	1.51	1.43	1.19	1.09	0.98

WATER YEAR 1971 : Max. 7.90 m. Min. 0.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	26	86	1,059	86	89	130	437	194	81	28	20
2	17	18	59	730	84	144	197	771	127	69	27	19
3	17	21	44	455	77	117	168	600	87	63	27	19
4	19	22	34	339	70	97	168	405	81	54	26	20
5	20	20	33	282	71	86	145	335	131	51	26	19
6	17	19	34	281	66	75	148	279	138	50	25	18
7	16	17	30	415	66	70	226	235	90	50	24	17
8	15	16	28	439	97	68	322	205	75	54	24	17
9	15	19	27	365	144	80	437	180	64	50	24	17
10	14	38	71	289	134	84	926	161	61	47	24	17
11	14	32	189	229	184	77	1,508	147	57	44	28	16
12	15	25	99	184	361	63	1,712	142	55	43	27	16
13	16	23	128	163	274	70	1,676	130	56	42	27	15
14	15	20	247	152	194	78	1,499	116	54	43	40	17
15	15	22	407	165	163	90	1,316	108	57	41	30	15
16	15	27	660	152	162	92	1,532	100	56	40	27	14
17	16	20	838	124	135	89	1,402	98	61	38	24	14
18	31	20	562	177	124	93	1,014	93	56	36	24	14
19	54	18	355	332	117	254	688	90	53	35	22	14
20	33	34	300	282	126	465	567	87	52	34	21	13
21	25	110	254	272	141	380	588	83	56	34	21	13
22	22	97	210	242	189	423	447	76	95	33	41	13
23	17	70	168	202	192	330	363	75	77	33	46	14
24	16	49	135	172	163	224	320	71	112	32	30	13
25	14	36	113	152	131	222	407	69	82	31	27	13
26	16	30	111	134	115	232	339	67	103	30	25	12
27	17	26	205	117	103	216	333	64	172	33	21	12
28	16	29	784	108	93	184	346	62	161	33	21	13
29	23	47	1,053	106	88	145	274	60	141	31	21	14
30	32	69	1,126	107	82	124	255	90	133	30	–	14
31	–	71	–	93	90	–	270	–	95	29	–	14
Total	589	1,091	8,390	8,319	4,122	4,761	19,723	5,436	2,832	1,314	778	476
Mean	19.6	35.2	280	268	133	159	636	181	91.3	42.4	26.8	15.3
Max.	54	110	1,126	1,059	361	465	1,712	771	194	81	46	20
Min.	14	16	27	93	66	63	130	60	52	29	21	12
Runoff - mcm.	50.890	94.262	724.896	718.762	356.141	411.350	1,704.067	469.670	244.685	113.530	67.219	41.106

WATER YEAR 1971 : Max. 1,712 Min. 12 Mean 158 Annual Runoff 4,996.598 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 13	12.00	7.93	1,728				

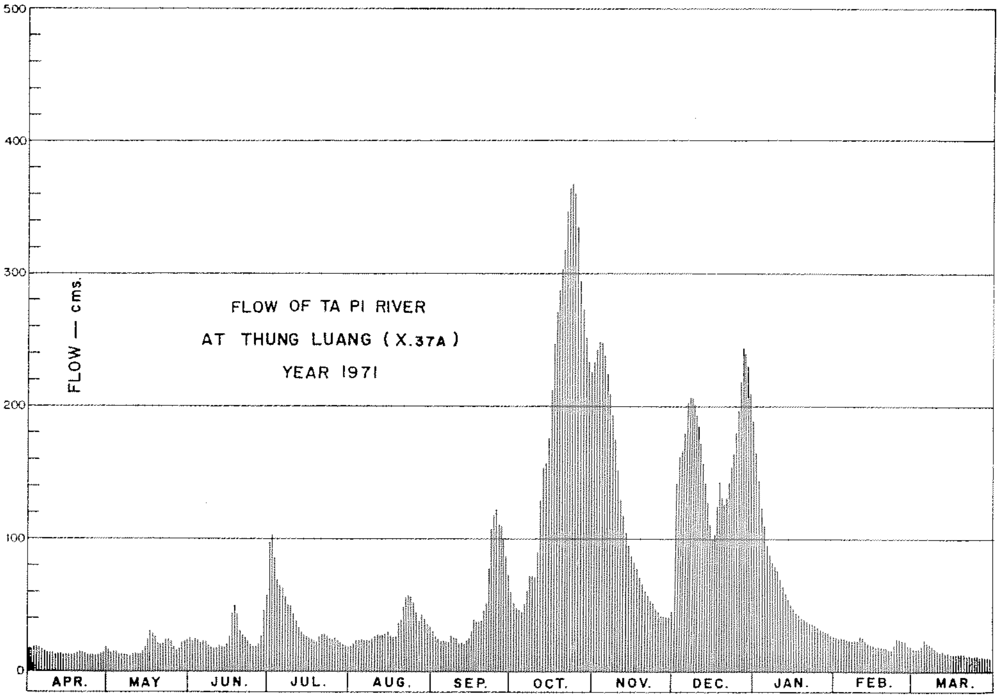
Ta Pi River at Thung Luang, Surat Thani (X. 37A)

Location:	Lat. 8^0-34'-03" N., Long. 99^0-15'-15" E., on right bank about 500 meters downstream from Amphoe Wieng Sra at Thung Luang, Amphoe Wieng Sra, Surat Thani.
Drainage Area:	5,200 sq.km.
Type of Gage:	Water-stage recorder
Zero Gage at Bottom at:	+ 4.833 m. (M.S.L.)
Bench Mark:	B.M. – H.S.
Location:	Infront of the X37A Station office.
Elevation:	+ 10.680 m. (M.S.L.)
Gage Reading Frequency:	14-time daily readings at 06.00-18.00 and 21.00 hours on April – August 22, 1971. Recording from August 23 – March 31, 1972.
Basis of Mean Daily Gage Height:	Arithmetic mean of 14 and 24 hourly readings.
Period of Available Gage Records:	1969 to date
Rating Operation:	
Period of Rating:	1969 to date
Rated by Float:	–
Rated by Current Meter:	1969 to date
Stability of Channel Regimes:	Rather unstable with variable water surface slope, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow is included for flow computation.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.73	5.65	5.96	7.66	5.81	6.13	6.76	9.90	7.13	9.23	6.04	5.71
2	.72	.62	.88	.73	.85	.04	.63	.99	8.37	8.92	.01	.69
3	.72	.66	.96	.41	.94	5.97	.57	10.04	.74	.56	.01	.71
4	.72	.62	.88	.08	.91	.89	.55	.02	.78	.23	5.99	.76
5	.67	.57	.85	6.98	.92	.90	.55	9.93	.92	7.91	.96	.95
6	5.66	5.57	5.89	6.94	5.92	5.87	6.74	9.80	9.29	7.63	5.94	5.83
7	.64	.55	.82	.78	.93	.89	7.06	.65	.35	.42	.92	.79
8	.61	.52	.78	.65	.95	6.02	.17	.47	.34	.31	.92	.73
9	.58	.52	.72	.62	.96	.00	.15	.22	.29	.29	.93	.69
10	.57	.56	.69	.50	6.02	5.97	.19	8.88	.17	.20	6.04	.66
11	5.58	5.53	5.74	6.36	6.06	5.81	7.68	8.53	8.97	7.08	6.01	5.64
12	.57	.53	.78	.22	.04	.87	8.40	.26	.70	6.95	5.90	.62
13	.56	.53	.75	.12	.08	.84	.64	.04	.42	.84	.83	.60
14	.56	.66	.76	.07	.09	.92	.68	7.79	.17	.73	.83	.60
15	.56	.76	.88	.01	.17	6.03	9.07	.59	7.90	.63	.80	.56
16	5.56	6.01	6.08	5.98	6.04	6.21	9.52	7.49	7.67	6.56	5.78	5.56
17	.56	.16	.62	.93	5.99	.39	.86	.34	.78	.49	.77	.54
18	.57	.06	.65	.90	6.07	.32	10.08	.19	8.24	.44	.77	.54
19	.61	5.96	.34	.91	.31	.33	.17	.04	.42	.40	.73	.53
20	.62	.85	.13	6.02	.40	.51	.27	6.92	.14	.37	.72	.53
21	5.58	5.83	6.04	6.07	6.70	6.65	10.36	6.83	8.15	6.34	5.71	5.52
22	.54	.91	5.96	.07	.85	7.27	.54	.75	.36	.31	.71	.52
23	.51	.98	.87	.01	.86	.82	.61	.70	.57	.31	.83	.50
24	.49	.95	.81	5.96	.79	8.00	.61	.59	.76	.30	.99	.49
25	.48	.84	.78	.95	.63	.09	.57	.53	.99	.22	.96	.48
26	5.48	5.71	5.78	5.97	6.44	7.88	10.47	6.47	9.24	6.18	5.95	5.47
27	.50	.66	.84	.90	.35	.87	.31	.44	.56	.16	.93	.46
28	.55	.76	6.09	.84	.47	.59	.18	.44	.74	.14	.80	.47
29	.64	.89	.57	.79	.40	.30	.02	.42	.72	.14	.76	.45
30	.73	.90	.90	.76	.29	.02	9.87	.45	.66	.07	–	.46
31	–	.92	–	.77	.24	–	.83	–	.43	.05	–	.46
Mean	5.59	5.75	5.99	6.32	6.21	6.55	8.84	7.96	8.74	6.92	5.88	5.60
Max.	5.73	6.16	6.90	7.73	6.86	8.09	10.61	10.04	9.74	9.23	6.04	5.95
Min.	5.48	5.52	5.69	5.76	5.81	5.81	6.55	6.42	7.13	6.05	5.71	5.45

WATER YEAR 1971 : Max. 10.61 m. Min. 5.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	15	25	98	20	30	55	233	71	178	27	17
2	18	15	22	102	21	27	50	243	140	157	26	17
3	18	16	25	85	24	25	47	249	162	136	26	17
4	18	15	22	69	23	23	46	247	165	119	26	19
5	16	13	21	64	24	23	46	236	174	104	25	24
6	16	13	23	62	24	22	54	222	202	92	24	21
7	15	13	21	56	24	23	68	208	207	84	24	20
8	14	12	19	50	24	27	73	193	207	80	24	18
9	14	12	18	49	25	26	72	173	202	79	24	17
10	13	13	17	44	27	25	74	150	193	75	27	16
11	14	13	18	39	28	20	99	130	178	69	26	15
12	13	13	19	33	27	22	142	116	160	63	23	15
13	13	13	18	30	28	21	156	106	143	58	21	14
14	13	16	19	28	29	24	159	95	128	54	21	14
15	13	19	22	26	31	27	185	87	112	50	20	13
16	13	26	28	25	27	33	223	83	99	47	19	13
17	13	31	49	24	26	40	256	78	105	44	19	13
18	13	28	50	23	28	37	282	73	132	42	19	13
19	14	25	38	23	37	38	294	67	143	40	18	13
20	15	21	30	27	40	45	308	61	126	39	18	13
21	14	21	27	28	52	50	323	58	127	38	17	12
22	13	23	25	28	58	78	354	54	140	37	17	12
23	12	25	22	26	59	107	367	52	152	37	21	12
24	12	24	20	25	56	118	367	48	164	36	26	12
25	12	21	19	24	50	123	353	46	179	33	25	12
26	12	17	19	25	42	111	327	43	198	32	24	11
27	12	16	21	23	38	110	292	42	226	31	24	11
28	13	19	29	21	43	94	270	42	244	30	20	11
29	15	23	47	20	40	80	246	41	237	30	19	11
30	18	23	60	19	36	66	230	42	224	28	–	11
31	–	24	–	19	34	–	225	–	195	27	–	11
Total	427	578	793	1,215	1,045	1,495	6,043	3,518	5,135	1,969	650	448
Mean	14.2	18.6	26.4	39.2	33.7	49.8	195	117	166	63.5	22.4	14.4
Max.	18	31	60	102	59	123	367	249	244	178	27	24
Min.	12	12	17	19	20	20	46	41	71	27	17	11
Runoff – mcm.	36.893	49.939	68.515	104.976	90.288	129.168	522.115	303.955	443.664	170.122	56.160	38.707

WATER YEAR 1971 : Max. 367 Min. 11 Mean 63.7 Annual Runoff 2,014.502 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 23	18.00	10.63	371				

PHUM DUANG RIVER BASIN

Phum Duang River at Ban Yan Lon, Surat Thani (X. 38)

Location: Lat. 8^0–53'–51" N., Long. 98^0–52'–32" E., on right bank at Ban Yan Lon about 2 kilometers downstream from confluence of Khlong Phra Saeng with Khlong Sok, King Amphoe Ban Takhun, Surat Thani.

Drainaage Area: 2,690 sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 3.700 m. (M.S.L.)

Bench Mark: B.M. – H.S.

Location: Near the X38 Station office.
Elevation: + 16.732 m. (M.S.L.)

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

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

Period of Available Gage Records: 1963 to date

Rating Operation:

Period of Rating: 1964–1969, 1972 to date.
Rated by Float: –
Rated by Current Meter: 1964–1969, 1972 to date.

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

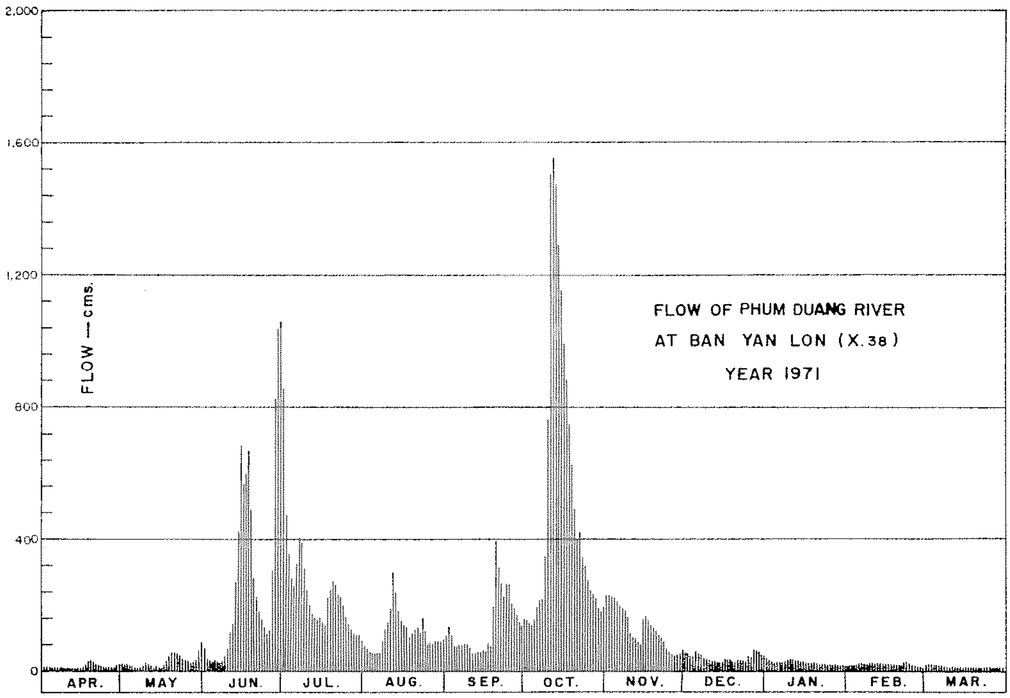
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relationship used is defined by discharge measurements made during 1964–68. No State diversions at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.79	4.87	5.65	11.51	5.73	6.18	6.67	7.35	5.50	5.22	4.85	4.94
2	.79	.95	.32	9.63	.65	.40	.60	.31	.50	.12	.86	.91
3	.76	.94	.12	8.51	.55	.15	.48	.29	.34	.10	.89	.89
4	.72	.82	.06	7.83	.55	5.76	.45	.21	.35	.03	.94	.88
5	.72	.78	.15	.53	.53	.78	.77	.14	.61	.06	.98	.86
6	4.72	4.75	51.07	8.13	5.49	5.82	7.16	7.04	5.44	5.04	4.96	4.83
7	.70	.67	.02	.75	.53	.80	.23	6.95	.41	.10	.94	.81
8	.69	.65	.13	.64	6.26	.84	.29	.87	.28	.14	.96	.79
9	.69	.94	.49	.03	.45	.85	8.92	.74	.25	.13	.98	.78
10	.68	5.07	.77	7.55	.63	.67	11.76	.30	.21	.18	.99	.75
11	4.70	4.94	6.46	7.06	7.11	5.44	14.20	6.12	5.17	5.17	4.99	4.74
12	.71	.83	.53	6.79	.89	.51	.38	.06	.14	.14	5.02	.71
13	.69	.72	7.73	.69	.03	.54	13.85	5.94	.09	.12	.03	.70
14	.69	.87	9.08	.65	6.89	.56	.16	.88	.10	.10	.00	.68
15	.72	.79	10.56	.73	.55	.58	12.34	6.66	.11	.07	4.98	.67
16	4.75	4.77	9.85	6.51	6.49	5.65	12.12	6.74	5.23	5.04	4.95	4.67
17	.94	.96	10.12	.46	.39	.87	11.54	.53	.17	.01	.93	.67
18	5.13	5.18	.44	7.29	.09	.75	10.72	.45	.14	4.99	.92	.67
19	.16	.41	8.73	.49	.21	7.28	9.97	.35	.09	.97	.90	.67
20	4.95	.59	7.58	.70	.32	8.67	.04	.23	.09	.96	.90	.68
21	4.88	5.51	7.23	7.59	6.38	7.95	8.70	6.14	5.19	4.95	4.93	4.67
22	.83	.41	6.85	.29	.16	.76	.84	.05	.17	.94	5.14	.67
23	.75	.36	.58	.25	.72	.23	.23	5.85	.13	.92	.05	.66
24	.72	.25	.35	.02	.23	.58	.07	.61	.10	.92	4.96	.65
25	.71	.12	.16	6.66	5.82	.60	7.74	.51	.37	.91	.88	.66
26	4.73	5.06	6.37	6.42	5.88	7.06	7.44	5.41	5.31	4.90	4.83	4.66
27	.74	4.97	8.35	.28	.49	6.96	.35	.34	.64	.89	.79	.69
28	.74	5.07	11.35	.15	.98	.79	.21	.40	.63	.88	.76	.73
29	.90	.16	12.35	.16	.93	.51	6.93	.50	.57	.87	.71	.75
30	.94	.70	.47	.15	.92	.46	.90	.65	.45	.86	–	.73
31	–	.95	–	5.91	6.07	–	7.27	–	.40	.86	–	.74
Mean	4.79	5.07	7.46	7.37	6.19	6.40	9.07	6.32	5.30	5.02	4.93	4.74
Max.	5.16	5.95	12.47	11.51	7.89	8.67	14.38	7.35	5.64	5.22	5.14	4.94
Min.	4.68	4.65	5.02	5.91	5.49	5.44	6.45	5.34	5.09	4.86	4.71	4.65

WATER YEAR 1971 : Max. 14.38 m. Min. 4.65 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	19	67	858	73	112	161	234	56	38	18	23
2	15	23	44	531	67	134	154	229	56	32	19	21
3	14	23	32	374	59	109	142	227	45	31	20	20
4	12	17	29	292	59	76	139	218	46	27	23	20
5	12	15	34	256	58	77	171	210	64	29	25	19
6	12	13	29	328	55	81	213	199	52	28	24	17
7	11	9.80	27	407	58	79	220	189	50	31	23	16
8	11	9.00	33	392	120	82	227	181	42	33	24	15
9	11	23	55	316	139	83	431	168	40	33	25	15
10	10	29	77	258	157	69	908	124	38	36	25	13
11	11	23	140	202	207	52	1,502	107	35	35	25	13
12	11	17	147	173	299	57	1,552	101	33	33	27	11
13	11	12	280	163	198	59	1,405	91	30	32	27	11
14	11	19	453	159	183	60	1,225	85	31	31	26	10
15	12	15	683	167	149	62	1,031	160	32	29	25	9.80
16	13	14	564	145	143	67	982	168	39	28	23	9.80
17	23	24	608	140	133	85	864	147	35	26	22	9.80
18	33	36	663	227	104	75	710	139	33	25	22	9.80
19	35	50	404	251	115	226	583	129	30	24	21	9.80
20	23	62	262	276	126	396	448	117	30	24	21	10
21	20	57	220	263	132	306	400	109	36	23	22	9.80
22	17	50	179	227	110	283	420	100	35	23	33	9.80
23	13	47	152	222	166	220	340	83	33	22	28	9.40
24	12	40	129	197	117	262	320	64	31	22	24	9.00
25	11	32	110	160	81	264	281	57	47	21	20	9.40
26	12	29	131	136	85	202	245	50	44	21	17	9.40
27	13	24	354	122	55	191	234	45	66	20	15	11
28	13	29	826	109	94	173	218	49	65	20	14	12
29	21	35	1,033	110	90	145	187	56	61	19	11	13
30	23	71	1,059	109	89	140	184	67	52	19	–	12
31	–	91	–	88	102	–	225	–	49	19	–	13
Total	461	957.80	8,824	7,658	3,623	4,227	16,122	3,903	1,336	834	649	400.80
Mean	15.4	30.9	294	247	117	141	520	130	43.1	26.9	22.4	12.9
Max.	35	91	1,059	858	299	396	1,552	234	66	38	33	23
Min.	10	9.00	27	88	55	52	139	45	30	19	11	9.00
Runoff – mcm.	39.830	82.754	762.394	661.651	313.027	365.213	1,392.941	337.219	115.430	72.058	56.074	34.629

WATER YEAR 1971 : Max. 1,552 Min. 9.00 Mean 134 Annual Runoff 4,233.220 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.11	19.00	14.64	1,628				

PHUM DUANG RIVER BASIN

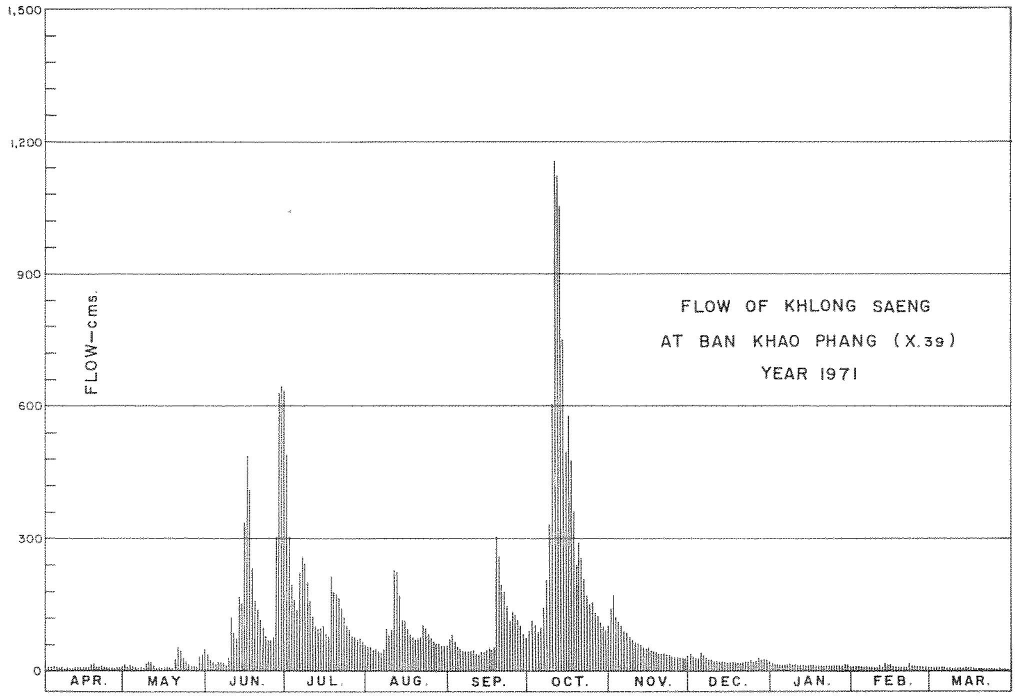
Khlong Saeng at Ban Khao Phang, Surat Thani (X. 39)

Location:	Lat. 8^{0}-57'-07" N., Long. 98^{0}-48'-53" E., on left bank at Ban Khao Phang, Amphoe Khiri Ratthanikhom, Surat Thani.
Drainage Area:	1,437 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 8.550 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	about 10 meters above measuring line.
Elevation:	+ 21.675 m. (M.S.L.)
Gage Reading Frequency:	24-time daily readings at 01.00-24.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 readings.
Period of Available Gage Records:	1964 to date
Rating Operation:	
Period of Rating:	1969 to date
Rated by Float:	-
Rated by Current Meter:	1969 to date
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.
Remarks:	* Mean hourly gage height and discharge for period October 3-28.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.22	9.27	9.85	13.85	10.18	10.48	10.82	11.36	9.94	9.55	9.33	9.24
2	.24	.33	.66	12.55	.11	.58	.99	.59	.79	.53	.32	.24
3	.29	.34	.49	11.81	.05	.34	* .88	.01	.73	.50	.32	.24
4	.29	.31	.47	.43	.10	.19	* .78	10.95	.73	.50	.32	.30
5	.25	.28	.56	.19	9.99	.09	* .60	.80	.97	.49	.31	.30
6	9.21	9.26	9.49	12.15	9.95	10.08	*10.91	10.66	9.85	9.48	9.30	9.22
7	.21	.24	.43	.44	10.10	9.99	*11.59	.60	.72	.47	.30	.22
8	.20	.24	.38	.24	.80	10.04	*12.04	.49	.67	.50	.30	.22
9	.20	.54	.76	11.72	.54	.02	*13.54	.40	.65	.48	.31	.21
10	.19	.59	11.04	.34	.78	.04	*16.08	.33	.62	.45	.35	.21
11	9.16	9.40	10.56	11.03	12.15	9.92	*18.13	10.28	9.61	9.43	9.33	9.21
12	.20	.30	.13	10.82	.10	.91	*17.80	.23	.60	.43	.30	.20
13	.20	.26	11.58	.73	11.40	10.02	*16.66	.17	.59	.42	.49	.20
14	.21	.28	.39	.76	10.98	9.98	*15.33	.12	.57	.41	.41	.19
15	.20	.28	13.28	.82	.97	10.10	*14.36	.08	.56	.40	.35	.19
16	9.22	9.26	14.32	10.59	10.72	10.18	*14.96	10.03	9.57	9.39	9.33	9.19
17	.30	.25	13.36	.47	.57	.08	*13.94	.00	.57	.39	.31	.19
18	.47	.25	11.94	12.02	.50	.23	*12.82	9.96	.55	.38	.29	.18
19	.44	.27	.45	11.63	.44	12.79	* .18	.93	.54	.38	.28	.18
20	.30	.85	.25	.62	.49	.08	* .70	.92	.54	.38	.27	.18
21	9.33	10.20	11.00	11.52	10.56	11.77	*12.18	9.89	9.57	9.37	9.30	9.18
22	.26	.02	10.82	.25	.88	.60	*11.76	.87	.63	.37	.44	.18
23	.22	9.71	.56	10.98	.79	.26	* .47	.84	.60	.36	.33	.18
24	.21	.50	.39	.80	.59	10.96	* .36	.82	.63	.36	.30	.17
25	.21	.39	.29	.67	.43	11.21	* .44	.80	.60	.35	.30	.17
26	9.20	9.34	10.50	10.53	10.36	11.06	*11.11	9.79	9.73	9.35	9.28	9.17
27	.21	.31	12.89	.45	.26	10.96	* .07	.77	.78	.36	.27	.18
28	.21	.26	15.31	.38	.28	.71	*10.90	.75	.69	.35	.26	.18
29	.21	.78	.42	.44	.18	.55	.79	.75	.72	.34	.25	.22
30	.39	.88	.34	.31	.19	.48	.71	.89	.68	.33	-	.21
31	-	10.11	-	.20	.26	-	.86	-	.60	.33	-	.19
Mean	9.25	9.46	11.30	11.25	10.70	10.59	12.60	10.24	9.66	9.41	9.32	9.20
Max.	9.47	10.20	15.42	13.85	12.15	12.79	18.13	11.59	9.97	9.55	9.49	9.30
Min.	9.16	9.24	9.38	10.20	9.95	9.91	10.60	9.73	9.54	9.33	9.25	9.17

WATER YEAR 1971 : Max. 18.13 m. Min. 9.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.60	10	37	427	57	78	103	150	42	21	12	9.20
2	9.20	12	27	274	53	85	117	172	33	20	12	9.20
3	11	13	19	194	49	68	* 108	119	30	19	12	9.20
4	11	11	18	157	52	57	* 100	113	30	19	12	11
5	9.50	10	22	135	45	51	* 86	101	44	19	11	11
6	8.30	9.80	19	230	43	48	* 111	90	37	18	11	8.60
7	8.30	9.20	16	262	52	45	* 173	86	30	18	11	8.60
8	8.00	9.20	14	240	101	48	* 219	78	27	19	11	8.60
9	8.00	21	32	185	82	47	* 395	72	26	18	11	8.30
10	7.70	23	122	149	99	48	* 756	67	25	17	13	8.30
11	6.80	15	83	121	230	41	*1,157	64	24	16	12	8.30
12	8.00	11	54	103	225	41	*1,079	60	24	16	11	8.00
13	8.00	9.80	171	95	154	47	* 853	56	23	16	19	8.00
14	8.30	10	153	98	116	45	* 634	53	22	15	15	7.70
15	8.00	10	357	103	115	52	* 494	51	22	15	13	7.70
16	8.60	9.80	489	85	95	57	* 578	48	22	15	12	7.70
17	11	9.50	368	77	84	51	* 440	46	22	15	11	7.70
18	18	9.50	207	216	79	60	* 305	44	21	14	11	7.40
19	17	10	158	176	75	301	* 234	42	21	14	10	7.40
20	11	37	140	175	78	223	* 291	41	21	14	10	7.40
21	12	58	118	165	83	190	* 233	39	22	14	11	7.40
22	13	47	103	140	107	173	* 189	38	25	14	17	7.40
23	8.60	29	83	116	100	141	* 161	36	24	13	12	7.40
24	8.30	19	71	101	85	114	* 151	35	25	13	11	7.10
25	8.30	15	71	91	74	137	* 158	34	24	13	11	7.10
26	8.00	13	79	81	69	123	* 128	33	30	13	10	7.10
27	8.30	11	312	75	62	114	* 124	32	33	13	10	7.40
28	8.30	9.80	628	71	64	94	* 109	31	28	13	9.80	7.40
29	8.30	33	645	75	57	82	100	30	30	13	9.50	8.60
30	15	39	633	66	57	78	94	39	28	12	–	8.30
31	–	53	–	58	62	–	106	–	24	12	–	7.70
Total	292.40	586.60	5,249	4,541	2,704	2,739	9.786	1,900	839	481	341.30	252.20
Mean	9.75	18.9	175	146	87.2	91.3	316	63.3	27.1	15.5	11.8	8.13
Max.	18	58	645	427	230	301	1,157	172	44	21	19	11
Min.	6.80	9.20	14	58	43	41	86	30	21	12	9.50	7.10
Runoff – mcm.	15.263	50.682	453.514	392.342	233.626	236.650	845.510	164.160	72.490	41.558	29.488	21.790

WATER YEAR 1971 : Max. 1,157 Min. 7.10 Mean 81.2 Annual Runoff 2,567.074 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 11	15.00	18.37	1,212				

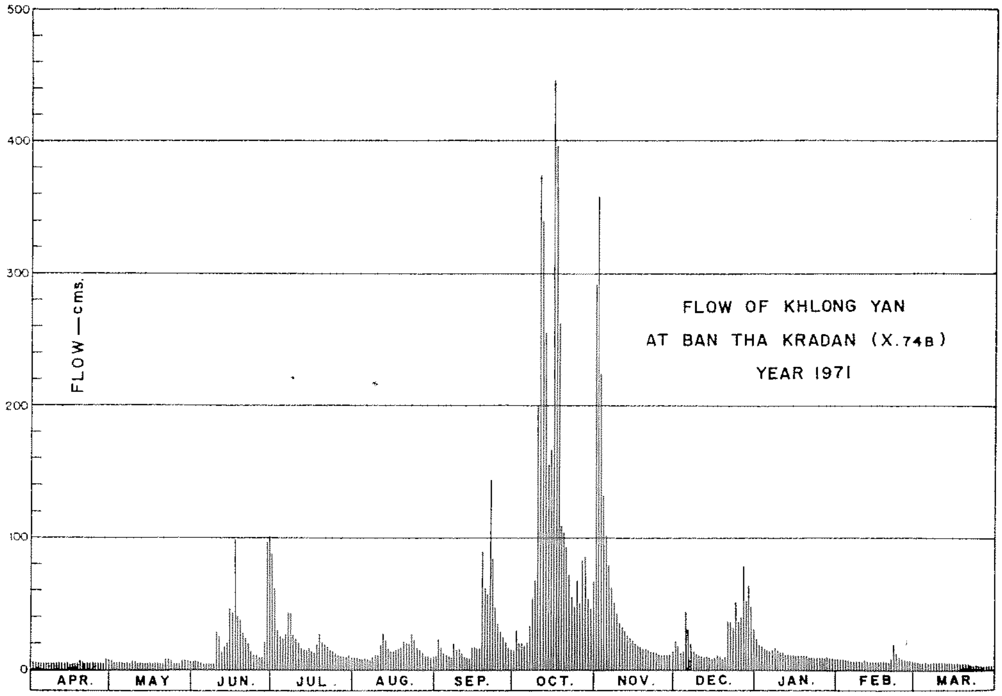
Khlong Yan at Ban Tha Kradan, Surat Thani (X. 74B)

Location:	Lat. 9^{0}–04'–06" N., Long. 98^{0}–57'–23" E., on right bank about 300 meters downstream from X74A station at Ban Tha Kradan, Amphoe Khiri Ratthanikhom, Surat Thani.
Drainage Area:	1,178 sq.km.
Type of Gage:	Water-stage recorder
Zero Gage at Bottom at:	+ 6.740 m. (M.S.L.)
Bench Mark:	B.M. – H.S.
Location:	Near the gage site
Elevation:	+ 12.020 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:	1971 to date
Rating Operation:	
Period of Rating:	1971–1972
Rated by Float:	–
Rated by Current Meter:	1971–1972
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. The data presented is made by discharge measurements during 1971. No State-diversions for irrigation above gage site. No adjustment made for virgin flow.
Remarks:	* Stream gaging began on April 23, 1971. Period April 1 – April 22 used flow at staff gage site (X74A) about 300 meters upstream represent.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		7.41	7.44	8.85	7.54	7.56	7.69	11.25	7.86	7.94	7.46	7.39
2		.38	.45	.53	.54	.90	8.07	.89	.74	.85	.46	.39
3		.39	.40	.03	.52	.72	7.81	10.22	.63	.80	.46	.39
4		.41	.39	7.92	.47	.64	.82	9.39	.68	.74	.46	.39
5		.39	.39	.88	.48	.61	.75	.14	8.33	.71	.44	.39
6		7.39	7.39	7.94	7.47	7.57	7.84	8.79	7.95	7.70	7.44	7.39
7		.38	.39	8.32	.46	.55	8.08	.57	.75	.74	.44	.39
8		.37	.37	.30	.57	.79	.54	.41	.66	.79	.44	.39
9		.42	.37	7.92	.60	.68	.77	.30	.62	.71	.44	.38
10		.41	8.04	.88	.57	.94	10.22	.14	.59	.67	.44	.38
11		7.38	7.92	7.79	7.72	7.60	12.03	8.08	7.58	7.63	7.43	7.38
12		.37	.63	.72	8.00	.55	11.62	.02	.57	.61	.42	.38
13		.38	.74	.69	7.88	.53	10.76	7.93	.56	.61	.42	.38
14		.39	.79	.69	.71	.52	9.85	.89	.55	.59	.41	.38
15		.38	8.36	.72	.65	.74	.98	.84	.53	.57	.41	.37
16		7.38	9.66	7.64	7.68	7.75	12.65	7.80	7.54	7.55	7.41	7.37
17		.37	.16	.59	.69	.73	.09	.76	.59	.54	.40	.36
18		.36	8.27	.79	.73	.73	9.83	.73	.56	.53	.40	.36
19		.34	.23	8.01	.72	9.04	.23	.71	.53	.53	.40	.36
20		.34	7.98	7.83	.84	8.59	.21	.69	.54	.53	.40	.36
21		7.36	7.91	7.79	7.79	8.55	9.03	7.67	8.18	7.52	7.40	7.36
22		.48	.79	.74	.79	9.71	8.67	.65	.18	.52	.87	.35
23	7.35	.48	.65	.68	.99	8.60	.45	.64	.07	.52	.64	.35
24	.34	.42	.61	.64	.83	.21	.36	.62	.45	.50	.51	.35
25	.35	.39	.57	.61	.72	.10	.71	.61	.19	.50	.46	.35
26	7.37	7.38	7.54	7.59	7.69	7.97	8.40	7.61	8.27	7.50	7.46	7.35
27	.35	.37	.55	.57	.62	.92	.96	.60	.88	.50	.44	.35
28	.38	.42	.80	.55	.58	.82	.98	.59	.43	.49	.44	.35
29	.47	.47	9.13	.54	.56	.73	.42	.59	.67	.48	.41	.34
30	.47	.45	.18	.60	.53	.69	.37	.68	.34	.48	–	.34
31	–	.45	–	.54	.58	–	.22	–	.09	.46	–	.34
Mean		7.40	7.90	7.83	7.66	7.93	9.17	8.29	7.91	7.61	7.45	7.37
Max.		7.48	9.66	8.85	8.00	9.71	12.65	11.89	8.88	7.94	7.87	7.39
Min.		7.34	7.37	7.54	7.46	7.52	7.69	7.59	7.53	7.46	7.40	7.34

WATER YEAR 1971 : Max. 12.65 m. Min. 7.34 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	* 6.00	6.30	7.20	76	10	11	16	290	22	23	8.44	5.75
2	* 5.60	5.60	7.50	57	10	24	31	358	18	19	8.44	5.75
3	* 5.60	5.80	6.00	29	9.60	17	20	189	13	18	8.44	5.75
4	* 5.20	6.30	5.80	25	8.10	14	21	118	15	16	8.44	5.75
5	* 5.20	5.80	5.80	23	8.40	12	18	98	45	15	7.56	5.75
6	* 5.20	5.80	5.80	26	8.10	11	22	72	26	15	7.56	5.75
7	* 5.20	5.60	5.80	44	7.80	10	32	59	18	16	7.56	5.75
8	* 5.20	5.40	5.40	43	11	20	57	50	14	17	7.56	5.75
9	* 5.20	6.60	5.40	25	12	15	71	43	13	15	7.56	5.30
10	* 5.20	6.30	30	23	11	16	189	35	12	14	7.56	5.30
11	* 5.20	5.60	25	20	17	12	373	32	11	13	7.22	5.30
12	* 5.20	5.40	13	17	28	10	328	29	11	12	6.88	5.30
13	* 5.20	5.60	18	16	23	9.90	241	25	11	12	6.88	5.30
14	* 4.40	5.80	20	16	16	9.60	155	24	10	12	6.54	5.30
15	* 4.40	5.60	47	17	14	18	167	22	9.90	11	6.54	4.85
16	* 5.20	5.60	140	14	15	18	447	20	10	11	6.54	4.85
17	* 5.20	5.40	100	12	16	17	380	18	12	11	6.20	4.40
18	* 5.60	5.20	41	20	17	17	154	17	11	11	6.20	4.40
19	* 7.20	4.80	39	28	17	90	105	16	9.90	11	6.20	4.40
20	* 6.00	4.80	27	21	22	60	104	16	10	11	6.20	4.40
21	* 6.00	5.20	24	20	20	58	89	15	37	10	6.20	4.40
22	* 5.20	8.40	20	18	20	144	65	14	37	10	20	3.95
23	5.20	8.40	14	15	28	61	52	14	31	10	13	3.95
24	4.80	6.60	12	14	21	38	47	13	52	10	10	3.95
25	5.00	5.80	11	12	17	33	68	12	37	10	8.44	3.95
26	5.40	5.60	10	12	16	27	49	12	41	10	8.44	3.95
27	5.00	5.40	10	11	13	25	84	12	79	10	7.56	3.95
28	5.60	6.60	20	10	11	21	85	12	51	10	7.56	3.95
29	8.10	8.10	97	10	11	17	50	12	65	9.52	6.54	3.50
30	8.10	7.50	101	12	9.90	16	47	15	45	9.52	–	3.50
31	–	7.50	–	10	11	–	39	–	30	8.44	–	3.50
Total	165.60	188.40	873.70	696	458.90	861.50	3,606	1,662	806.80	390.48	232.26	147.65
Mean	5.52	6.08	29.1	22.4	14.8	28.7	116	55.4	26.0	12.6	8.01	4.76
Max.	8.10	8.40	140	76	28	144	447	358	79	23	20	5.75
Min.	4.40	4.80	5.40	10	7.80	9.60	16	12	9.90	8.44	6.20	3.50
Runoff – mcm.	14.308	16.278	75.488	60.134	39.649	74.434	311.558	143.597	69.707	33.737	20.067	12.757

WATER YEAR 1971 : Max. 447 Min. 3.50 Mean 27.6 Annual Runoff 871.715 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.16	06.00	12.86	475				

PATTANI RIVER BASIN

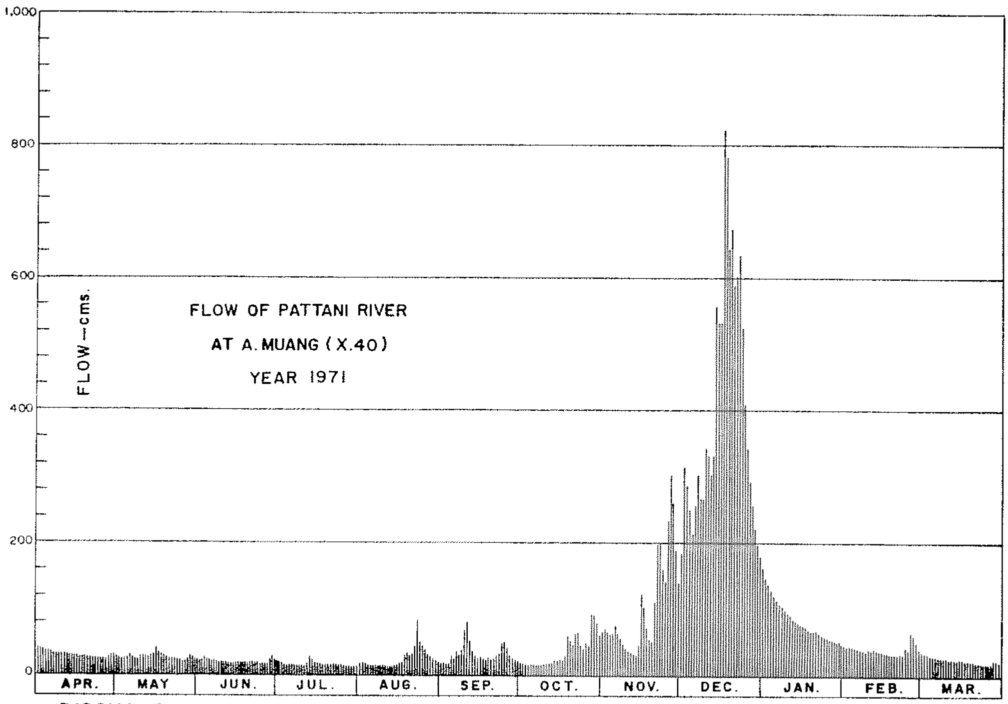
Pattani River at Muang Yala (X. 40)

Location:	Lat. 6°-35'-00" N., Long. 101°-20'-00" E., on right bank about 500 meters downstream from state railway bridge crossing Pattani river at Ban Streng Nok, Amphoe Muang, Yala.
Drainage Area:	3,295 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 9.600 m. (M.S.L.)
Bench Mark:	B.M. - H.S.
Location:	about 15 meters upstream from the top gage.
Elevation:	+ 16.134 m. (M.S.L.)
Gage Reading Frequency:	14-time daily readings at 06.00-18.00 and 21.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 14 readings.
Period of Available Gage Records:	1964 to date
Rating Operation:	
Period of Rating:	1964-1975
Rated by Float:	-
Rated by Current Meter:	1964-1975
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation at above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11.03	10.75	10.65	10.60	10.54	10.55	10.55	11.38	12.75	12.49	11.09	10.91
2	10.97	.70	.65	.56	.60	.55	.54	.43	13.91	.36	.07	.87
3	.94	.70	.76	.53	.56	.52	.52	.38	.59	.25	.05	.83
4	.93	.73	.68	.51	.51	.61	.51	.33	.36	.16	.03	.81
5	.91	.74	.64	.50	.48	.79	.48	.36	.02	.07	.01	.81
6	10.90	10.81	10.64	10.49	10.47	10.68	10.47	11.52	13.45	12.00	11.00	10.78
7	.88	.72	.62	.48	.46	.90	.49	.29	.81	11.94	10.99	.76
8	.87	.70	.62	.47	.47	.84	.50	.23	.50	.91	.97	.75
9	.85	.68	.59	.47	.47	11.02	.49	.10	.51	.84	.97	.73
10	.85	.78	.58	.46	.48	.44	.49	10.99	14.09	.77	11.02	.72
11	10.84	10.81	10.57	10.46	10.45	11.58	10.54	10.92	14.02	11.72	10.97	10.71
12	.82	.77	.56	.58	.43	.11	.56	.90	13.81	.66	.99	.70
13	.81	.76	.55	.79	.43	10.89	.60	.87	14.03	.63	.94	.69
14	.80	.83	.55	.64	.47	.78	.66	.87	.81	.59	.93	.68
15	.79	.87	.55	.58	.51	.71	.67	11.10	.75	.54	.90	.67
16	10.78	11.01	10.58	10.55	10.58	10.75	10.66	12.10	14.75	11.52	10.88	10.66
17	.77	10.89	.60	.50	.58	.68	.69	11.72	15.18	.46	.86	.65
18	.77	.84	.61	.49	.83	.64	.85	.35	.15	.44	.85	.64
19	.76	.77	.58	.52	.89	.75	11.28	.18	14.95	.41	.84	.63
20	.74	.74	.56	.51	.80	.67	.17	.18	15.00	.41	.83	.62
21	10.73	10.72	10.63	10.49	10.85	10.71	11.03	12.08	14.88	11.38	10.84	10.61
22	.72	.71	.59	.56	11.08	.80	.33	.89	.90	.34	.85	.60
23	.71	.68	.55	.53	.61	.87	.36	.91	.94	.31	.91	.58
24	.71	.69	.53	.50	.14	11.11	.08	.44	.71	.28	11.05	.57
25	.69	.65	.52	.47	.05	.16	10.99	.26	.36	.26	10.98	.56
26	10.69	10.63	10.51	10.45	10.87	10.95	11.14	13.14	14.07	11.23	11.39	10.55
27	.68	.63	.51	.44	.84	.79	.05	.80	13.70	.22	.31	.63
28	.77	.73	.69	.43	.78	.70	.74	.39	.37	.20	.13	.67
29	.80	.83	.78	.42	.70	.69	.74	12.71	.05	.17	10.98	.64
30	.81	.72	.65	.45	.65	.60	.56	.23	12.81	.18	-	.61
31	-	.67	-	.47	.60	-	.30	-	.67	.10	-	.60
Mean	10.77	10.75	10.60	10.51	10.68	10.82	10.87	11.76	14.05	11.61	10.99	10.68
Max.	11.03	11.01	10.78	10.79	11.61	11.58	11.74	13.80	15.18	12.49	11.39	10.91
Min.	10.68	10.63	10.51	10.42	10.43	10.52	10.47	10.87	12.67	11.10	10.83	10.55

WATER YEAR 1971 : Max. 15.18 m. Min. 10.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42	27	22	20	18	18	18	66	185	160	45	35
2	38	25	22	18	20	18	18	69	316	147	44	33
3	37	25	28	17	18	17	17	66	277	135	43	31
4	36	26	24	16	16	20	16	62	251	127	42	30
5	35	27	22	16	15	29	15	64	213	119	41	30
6	35	30	22	16	15	24	15	75	260	113	40	29
7	34	26	21	15	14	35	16	59	303	108	39	28
8	33	25	21	15	15	32	16	55	266	105	38	27
9	32	24	20	15	15	41	16	46	267	99	38	26
10	32	29	19	14	15	70	16	39	344	94	41	26
11	32	30	19	14	14	80	18	36	333	90	38	25
12	31	28	18	19	13	47	18	35	303	85	39	25
13	30	28	18	29	13	34	20	33	335	83	37	24
14	30	31	18	22	15	29	23	33	558	80	36	24
15	29	33	18	19	16	25	23	46	532	77	35	23
16	29	41	19	18	19	27	23	122	532	75	34	23
17	28	34	20	16	19	24	24	90	823	73	33	22
18	28	32	20	16	31	22	32	63	768	70	32	22
19	28	28	19	17	34	27	59	52	641	68	32	21
20	27	27	18	16	30	23	51	52	674	68	31	21
21	26	26	21	16	32	25	42	120	589	66	32	20
22	26	25	20	18	45	30	62	200	608	63	32	20
23	25	24	18	17	82	33	64	201	634	61	35	19
24	25	24	17	16	49	47	45	154	514	59	43	19
25	24	22	17	15	43	50	39	136	400	57	39	18
26	24	21	16	14	33	37	49	226	341	55	66	18
27	24	21	16	14	32	29	43	302	290	54	61	21
28	28	26	24	13	29	25	91	254	252	53	48	23
29	30	31	29	13	25	24	91	181	216	51	39	22
30	30	26	22	14	22	20	78	134	191	52	–	20
31	–	23	–	15	20	–	60	–	178	46	–	20
Total	908	845	608	513	777	962	1,118	3,071	12,394	2,593	1,153	745
Mean	30.2	27.2	20.2	16.5	25.0	32.0	36.0	102	400	83.6	39.7	240
Max.	42	41	29	29	82	80	91	302	823	160	66	35
Min.	24	21	16	13	13	17	15	33	178	46	31	18
Runoff - mcm.	78.451	73.008	52.531	44.323	67.133	83.117	96.595	265.334	1,070.84	224.035	99.619	64.368

WATER YEAR 1971 : Max. 823 Min. 13 Mean 70.2 Annual Runoff 2,219.357 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.17	16-21.00	15.21	848				

KHLONG YAHA RIVER BASIN

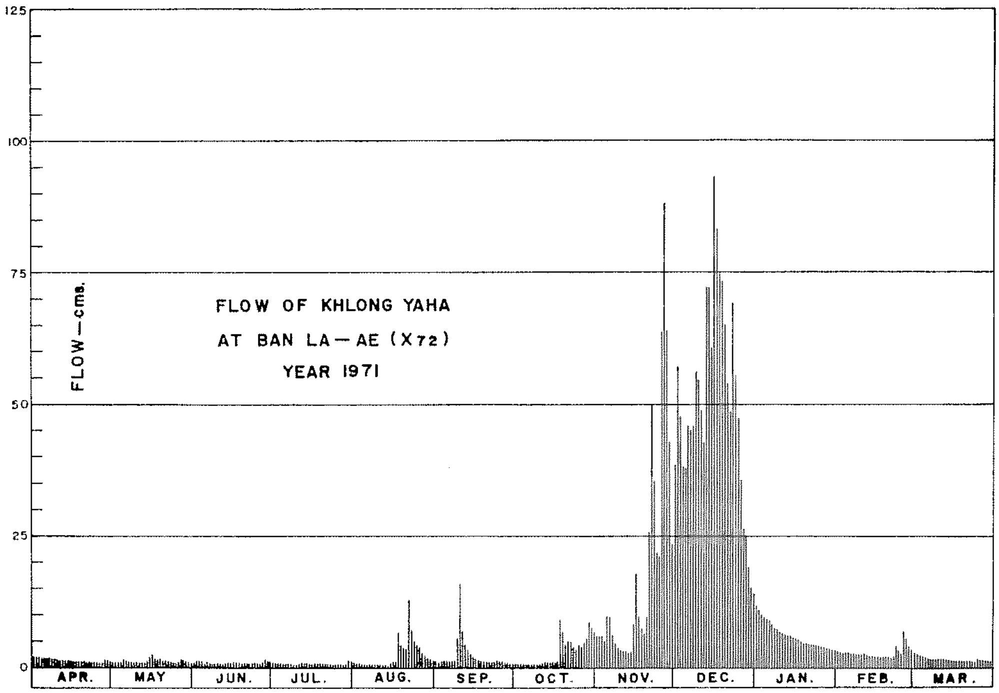
Khlong Yaha at Ban La Ae, Yala (X. 72)

Location:	Lat. 6^{0}–28'–21" N., Long. 101^{0}–10'–03" E., on right bank about 4 kilometers from Amphoe Yaha along the rural read, and about 3 kilometers downstream from confluence with Khlong Ba Tae at Ban La Ae, Amphoe Yaha, Yala.
Drainage Area:	358 sq.km.
Type of Gage:	Water-stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. – H.S.
Location:	Along the measuring line
Elevation:	+ 7.109 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967–68
Rated by Float:	–
Rated by Current Meter:	1967–68
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 good. Stage-discharge relationship used is defined by discharge measurements made during 1967–68. No upstream state diversions except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.55	1.35	1.36	1.34	1.36	1.41	1.31	2.09	4.18	2.67	1.72	1.69
2	.54	.35	.42	.32	.33	.38	.31	.10	.91	.58	.69	.63
3	.52	.35	.40	.30	.30	.43	.30	.13	.52	.50	.69	.59
4	.51	.38	.36	.28	.30	.47	.30	.00	.12	.45	.70	.56
5	.50	.48	.34	.27	.28	.44	.29	.51	.13	.42	.69	.54
6	1.49	1.40	1.34	1.27	1.27	1.44	1.29	2.45	4.49	2.36	1.67	1.53
7	.47	.38	.33	.26	.25	.46	.29	.15	.43	.33	.66	.52
8	.45	.40	.33	.25	.24	.43	.29	1.97	.46	.29	.66	.51
9	.46	.38	.33	.25	.23	2.07	.30	.83	.89	.23	.65	.50
10	.45	.38	.32	.25	.22	.94	.32	.75	.79	.18	.64	.50
11	1.43	1.36	1.31	1.30	1.21	2.21	1.35	1.73	4.57	2.15	1.63	1.49
12	.43	.36	.30	.35	.21	1.90	.39	.70	.30	.12	.62	.48
13	.41	.38	.30	.32	.20	.75	.37	.69	5.46	.09	.62	.47
14	.41	.43	.35	.30	.29	.64	.38	.66	.46	.09	.61	.46
15	.40	.62	.35	.30	.37	.56	.36	2.34	.00	.05	.60	.45
16	1.39	1.64	1.36	1.29	1.42	1.50	1.36	3.06	6.15	2.03	1.59	1.44
17	.39	.50	.35	.32	.43	.47	.39	2.50	5.70	.01	.58	.43
18	.38	.46	.33	.34	2.16	.44	2.40	.23	.58	1.95	.56	.42
19	.38	.47	.32	.31	1.77	.41	.21	.12	.51	.94	.55	.42
20	.37	.43	.31	.31	.77	.41	1.86	.44	.02	.92	.54	.41
21	1.37	1.42	1.30	1.30	1.65	1.42	2.00	3.38	4.74	1.91	1.54	1.40
22	.37	.40	.29	.29	2.77	.42	.00	4.63	.53	.90	.60	.39
23	.35	.38	.28	.29	.15	.42	1.84	3.97	5.36	.89	.88	.39
24	.35	.37	.28	.28	1.97	.44	.77	.31	5.61	.86	.75	.56
25	.34	.35	.27	.26	.85	.44	.91	.26	.53	.85	.69	.50
26	1.33	1.35	1.27	1.25	1.74	1.40	1.85	5.68	3.92	1.85	2.19	1.46
27	.33	.46	.35	.24	.64	.37	.98	6.01	.54	.83	.00	.43
28	.43	.44	.43	.23	.57	.35	2.10	4.84	.23	.81	1.85	.41
29	.41	.39	.37	.23	.53	.34	.37	3.83	.02	.79	.76	.39
30	.37	.36	.36	.47	.46	.32	.24	.29	2.88	.77	–	.38
31	–	.35	–	.45	.44	–	.16	–	.78	.76	–	.38
Mean	1.42	1.41	1.33	1.29	1.53	1.56	1.65	2.82	4.54	2.08	1.69	1.47
Max.	1.55	1.64	1.43	1.47	2.77	2.94	2.40	6.01	6.15	2.67	2.19	1.69
Min.	1.33	1.35	1.27	1.23	1.20	1.32	1.29	1.66	2.78	1.76	1.54	1.38

WATER YEAR 1971 : Max. 6.15 m. Min. 1.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.00	1.00	1.04	0.96	1.04	1.25	0.84	6.01	39	12	3.14	2.93
2	1.94	1.00	1.30	0.88	0.92	1.12	0.84	6.10	57	11	2.93	2.51
3	1.82	1.00	1.20	0.80	0.80	1.35	0.80	6.40	47	10	2.93	2.24
4	1.76	1.12	1.04	0.74	0.80	1.55	0.80	5.20	38	9.75	3.00	2.06
5	1.70	1.60	0.96	0.71	0.74	1.40	0.77	10	38	9.42	2.93	1.94
6	1.65	1.20	0.96	0.71	0.71	1.40	0.77	9.75	46	9.09	2.79	1.88
7	1.55	1.12	0.92	0.68	0.65	1.50	0.77	6.60	45	8.43	2.72	1.82
8	1.45	1.20	0.92	0.65	0.62	1.35	0.77	4.96	46	8.00	2.72	1.76
9	1.50	1.12	0.92	0.65	0.59	5.83	0.80	3.91	56	7.40	2.65	1.70
10	1.45	1.12	0.92	0.65	0.56	16	0.88	3.35	54	6.90	2.58	1.70
11	1.35	1.04	0.84	0.80	0.53	7.20	1.00	3.21	48	6.60	2.51	1.65
12	1.35	1.04	0.80	1.00	0.53	4.40	1.16	3.00	42	6.30	2.44	1.60
13	1.25	1.12	0.80	0.88	0.50	3.35	1.08	2.93	72	6.01	2.44	1.55
14	1.25	1.35	1.00	0.80	0.77	2.58	1.12	2.72	72	6.01	2.37	1.50
15	1.20	2.44	1.00	0.80	1.08	2.06	1.04	8.54	59	5.65	2.30	1.45
16	1.16	2.58	1.04	0.77	1.30	1.70	1.04	18	93	5.47	2.24	1.40
17	1.16	1.70	1.00	0.88	1.35	1.55	1.16	10	79	5.29	2.18	1.35
18	1.12	1.50	0.92	0.96	6.70	1.40	9.20	7.40	74	4.80	2.06	1.30
19	1.12	1.55	0.88	0.84	3.49	1.25	7.20	6.30	73	4.72	2.00	1.30
20	1.08	1.35	0.84	0.84	3.49	1.25	4.12	9.64	60	4.56	1.94	1.25
21	1.08	1.30	0.80	0.80	2.65	1.30	5.20	23	52	4.48	1.94	1.20
22	1.08	1.20	0.77	0.77	13	1.30	5.20	50	47	4.40	2.30	1.16
23	1.00	1.12	0.74	0.77	6.60	1.30	3.98	35	69	4.33	4.26	1.16
24	1.00	1.08	0.74	0.74	4.96	1.40	3.49	22	49	4.12	3.35	2.06
25	0.96	1.00	0.71	0.68	4.05	1.40	4.48	21	47	4.05	2.93	1.70
26	0.92	1.00	0.71	0.65	3.28	1.20	4.05	78	34	4.05	7.00	1.50
27	0.92	1.50	1.00	0.62	2.58	1.08	5.04	88	26	3.91	5.20	1.35
28	1.35	1.40	1.35	0.59	2.12	1.00	6.10	55	20	3.77	4.05	1.25
29	1.25	1.16	1.08	0.59	1.88	0.96	8.87	32	17	3.63	3.42	1.16
30	1.08	1.04	1.04	1.55	1.50	0.88	7.50	21	15	3.49	–	1.12
31	–	1.00	–	1.45	1.40	–	6.70	–	14	3.42	–	1.12
Total	39.50	39.95	28.24	25.21	71.19	71.31	96.77	559.02	1,528	191.05	85.32	49.67
Mean	1.32	1.29	0.941	0.813	2.30	2.38	3.12	18.6	49.3	6.16	2.94	1.60
Max.	2.00	2.58	1.35	1.55	13	16	9.20	88	93	12	7.00	2.93
Min.	0.92	1.00	0.71	0.59	0.50	0.88	0.77	2.72	14	3.42	1.94	1.12
Runoff - mcm.	3.413	3.452	2.440	2.178	6.151	6.161	8.361	48.299	132.019	16.507	7.372	4.291

WATER YEAR 1971 : Max. 93 Min. 0.50 Mean 7.61 Annual Runoff 240.644 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.16	12.00	6.31	98				

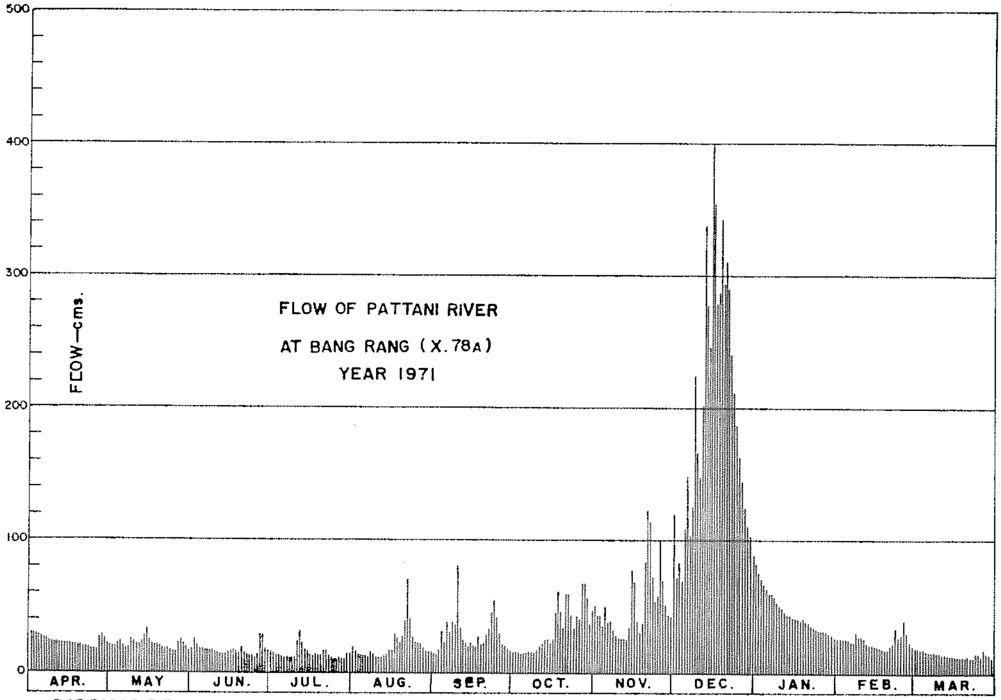
Pattani River at Damsite Bang Rang, Yala (X. 78A)

Location:	Lat. 6°-09'-52" N., Long. 101°-16'-19" E., on left bank about 2 kilometers downstream from X78 station at Bang Rang, Amphoe Bannang Sata, Yala.
Drainage Area:	2,044 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 42.403 m. (M.S.L.)
Bench Mark:	B.M. - H.S./R.I.D. X78A
Location:	about 4 meters south-east of the corner of Meteorological station.
Elevation:	+ 53.132 m. (M.S.L.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings
Period of Available Gage Records:	1967-1974
Rating Operation:	
Period of Rating:	1967-1974
Rated by Float:	-
Rated by Current Meter:	1967-1974
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43.50	43.34	43.30	43.27	43.33	43.24	43.27	43.76	44.37	44.06	43.44	43.32
2	.48	.34	.43	.24	.28	.23	.26	.68	43.97	.01	.43	.30
3	.48	.33	.33	.22	.22	.30	.26	.66	44.07	43.97	.43	.30
4	.47	.53	.28	.22	.22	.52	.24	.54	43.89	.92	.43	.31
5	.45	.41	.30	.21	.23	.35	.24	.74	44.22	.88	.42	.29
6	43.43	43.33	43.29	43.20	43.21	43.61	43.26	43.59	44.58	43.85	43.40	43.27
7	.42	.31	.29	.19	.20	.49	.27	.61	.22	.85	.40	.26
8	.41	.32	.26	.19	.27	.61	.24	.52	.40	.82	.50	.26
9	.40	.43	.26	.19	.23	.55	.26	.47	45.07	.78	.45	.25
10	.39	.41	.25	.19	.20	44.04	.30	.43	44.66	.75	.45	.24
11	43.38	43.38	43.24	43.43	43.19	43.55	43.33	43.43	44.52	43.73	43.44	43.23
12	.37	.37	.23	.51	.20	.42	.37	.43	45.03	.70	.38	.23
13	.37	.41	.23	.35	.22	.35	.42	.42	.64	.68	.37	.22
14	.37	.48	.24	.30	.22	.33	.43	.42	44.94	.67	.36	.21
15	.36	.54	.26	.26	.30	.40	.38	44.02	45.35	.65	.35	.21
16	43.35	43.41	43.30	43.22	43.29	43.34	43.43	43.91	45.90	43.64	43.33	43.20
17	.35	.37	.30	.21	.49	.32	.50	.56	.36	.63	.32	.19
18	.35	.36	.27	.24	.45	.45	.87	.49	.41	.61	.30	.19
19	.34	.35	.26	.23	.40	.35	.71	.43	.66	.64	.30	.19
20	.33	.34	.33	.23	.46	.41	.52	44.00	.43	.61	.30	.19
21	43.32	43.32	43.27	43.31	43.62	43.51	43.85	44.39	45.52	43.59	43.38	43.18
22	.32	.31	.23	.29	.96	.55	.85	.32	.33	.56	.39	.17
23	.32	.32	.22	.23	.55	.70	.62	43.97	.04	.54	.53	.17
24	.31	.28	.21	.19	.43	.80	.52	.79	44.94	.52	.44	.24
25	.31	.26	.20	.17	.40	.55	.67	.85	.77	.51	.46	.23
26	43.31	43.26	43.20	43.17	43.40	43.42	43.58	44.21	44.65	43.51	43.62	43.20
27	.45	.40	.47	.17	.38	.36	.93	43.91	.52	.51	.50	.28
28	.47	.42	.47	.17	.31	.33	.92	.76	.40	.50	.38	.23
29	.44	.40	.32	.17	.27	.30	.77	.66	.29	.47	.34	.23
30	.38	.32	.28	.27	.26	.28	.58	.66	.23	.46	-	.20
31	-	.29	-	.23	.26	-	.71	-	.14	.45	-	.19
Mean	43.39	43.36	43.28	43.24	43.33	43.45	43.50	43.72	44.79	43.68	43.41	43.23
Max.	43.50	43.54	43.47	43.51	43.96	44.04	43.93	44.39	45.90	44.06	43.62	43.32
Min.	43.31	43.26	43.20	43.17	43.19	43.23	43.24	43.42	43.89	43.45	43.30	43.17

WATER YEAR 1971 : Max. 45.90 m. Min. 43.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31	20	18	16	20	15	16	51	120	82	26	19
2	29	20	26	15	17	14	16	44	72	76	26	18
3	29	20	20	14	14	18	16	43	83	72	26	18
4	29	23	17	14	14	32	15	34	64	67	26	18
5	27	24	18	13	14	21	15	50	101	63	25	17
6	26	20	17	12	13	39	16	38	149	60	23	16
7	25	18	17	12	12	30	16	39	101	60	23	16
8	24	19	16	12	16	39	15	32	124	57	31	16
9	23	26	16	12	14	35	16	29	224	53	27	15
10	23	24	15	12	12	80	18	26	160	50	27	15
11	22	22	15	26	12	35	20	26	140	49	26	14
12	22	22	14	32	12	25	22	26	217	46	22	14
13	22	24	14	21	14	21	25	25	337	44	22	14
14	22	29	15	18	14	20	26	25	202	44	21	13
15	21	34	16	16	18	23	22	77	276	42	21	13
16	21	24	18	14	17	20	26	66	398	41	20	12
17	21	22	18	13	30	19	31	37	278	41	19	12
18	21	21	16	15	27	27	62	30	288	39	18	12
19	20	21	16	14	23	21	47	26	342	41	18	12
20	20	20	20	14	28	24	32	75	292	39	18	12
21	19	19	16	18	40	32	60	123	310	38	22	12
22	19	18	14	17	71	35	60	114	272	35	23	11
23	19	19	14	14	35	46	40	72	219	34	33	11
24	18	17	13	12	26	55	32	54	202	32	26	15
25	18	16	12	11	23	35	44	60	176	32	28	14
26	18	16	12	11	23	25	37	100	159	32	40	12
27	27	23	29	11	22	21	68	66	140	32	31	17
28	29	25	29	11	18	20	67	51	124	31	22	14
29	26	23	19	11	16	18	52	43	110	29	20	14
30	22	19	17	16	16	17	37	43	102	28	–	12
31	–	17	–	14	16	–	47	–	91	27	–	12
Total	693	675	517	461	647	862	1,016	1,525	5,873	1,416	710	440
Mean	23.1	21.8	17.2	14.9	20.9	28.7	32.8	50.8	189	45.7	24.5	14.2
Max.	31	34	29	32	71	80	68	123	398	82	40	19
Min.	18	16	12	11	12	14	15	25	64	27	18	11
Runoff - mcm.	59.875	58.320	44.669	39.830	55.901	74.477	87.782	131.760	507.427	122.342	61.344	38.016

WATER YEAR 1971 : Max. 398 Min. 11 Mean 40.5 Annual Runoff 1,281.744 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 16	01.00	46.56	567				

KHLONG CHUMPHON RIVER BASIN

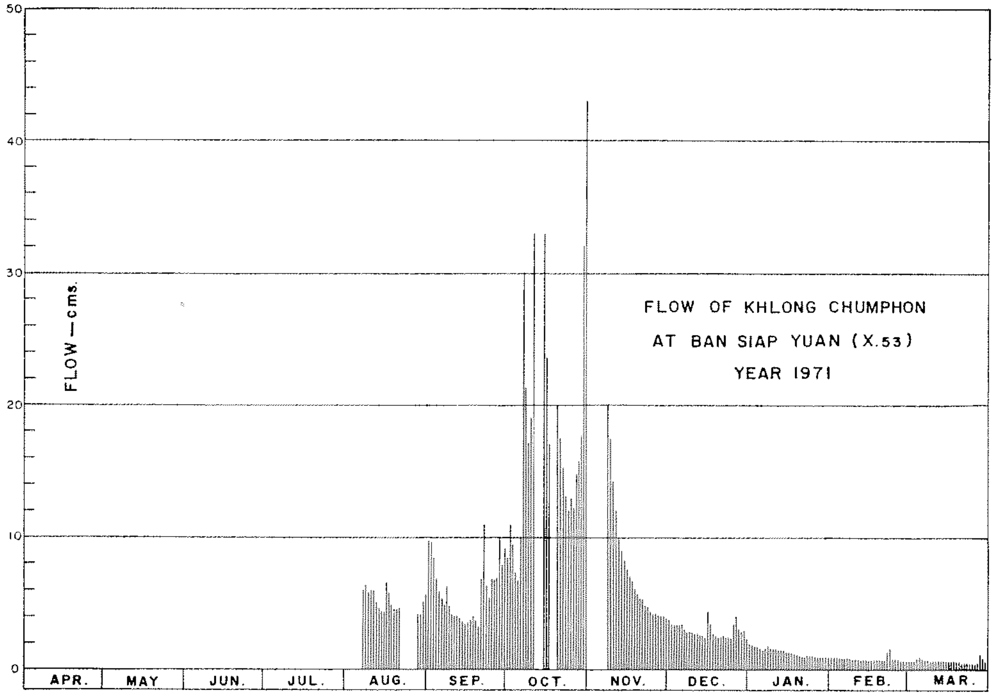
Khlong Chumphon at Ban Saip Yuan, Chumphon (X. 53)

Location:	Lat. 10°-29'-57" N., Long. 99°-04'-15" E., on left bank upstream side of the bridge near Rong Rian Phayom Thawai, Amphoe Muang, Chumphon.
Drainage Area:	223 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	near gage site
Elevation:	+ 9.502 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1971 to date
Rating Operation:	
Period of Rating:	1973
Rated by Float:	-
Rated by Current Meter:	1973
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair, Stage-discharge relationship used is defined by discharge measurements made during 1973. No State diversions for irrigation above gage site. No adjustment made for virgin flow.
Remarks:	Stream gaging began on August 7, 1971. No records for period August 22-27, November 1-5, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						1.14	1.06		0.82	0.70	0.60	0.53
2						.13	.21		.80	.69	.60	.53
3						.06	.11		.80	.68	.60	.54
4						.59	.02		.80	.68	.59	.58
5						0.94	0.98		.80	.67	.59	.58
6						0.92	1.17		0.79	0.66	0.59	0.56
7					0.95	.89	1.83		.77	.67	.59	.55
8					.97	.97	.51	1.56	.76	.69	.57	.54
9					.94	.89	.45	.40	.76	.67	.57	.53
10					.95	.85	.49	.31	.76	.66	.56	.53
11					0.95	0.84	1.94	1.23	0.75	0.66	0.56	0.53
12					.91	.84	-	.16	.75	.66	.56	.53
13					.88	.83	-	.11	.74	.65	.56	.53
14					.86	.81	-	.07	.74	.65	.56	.53
15					.85	.80	1.94	.04	.73	.64	.56	.53
16					0.98	0.81	1.64	1.01	0.86	0.64	0.56	0.53
17					.93	.82	.43	0.99	.80	.63	.56	.53
18					.88	.84	-	.96	.75	.62	.56	.53
19					.87	.81	-	.94	.74	.62	.56	.53
20					.87	.78	1.54	.92	.73	.61	.56	.52
21					0.88	0.98	1.44	0.92	0.74	0.60	0.55	0.50
22						1.22	.35	.89	.74	.60	.64	.50
23						0.95	.29	.88	.72	.61	.66	.50
24						.91	.24	.86	.72	.61	.57	.49
25						.99	.29	.85	.72	.61	.56	.49
26						0.99	1.25	0.85	0.81	0.60	0.57	0.49
27						1.00	.38	.84	.84	.60	.54	.49
28					0.85	.15	.39	.84	.77	.60	.54	.61
29					.84	.03	.46	.84	.76	.60	.53	.57
30					.91	.11	2.02	.83	.77	.60	-	.53
31					.94	-	.19	-	.72	.60	-	.52
Mean					-	0.96	-	-	0.76	0.63	0.57	0.53
Max.					-	1.22	-	-	0.86	0.70	0.66	0.61
Min.					-	0.78	-	-	0.72	0.60	0.53	0.49

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						9.80	8.20		3.80	2.00	1.00	0.65
2						9.60	11		3.50	1.90	1.00	0.65
3						8.20	9.20		3.50	1.80	1.00	0.70
4						6.80	7.40		3.50	1.80	0.95	0.90
5						5.80	6.60		3.50	1.70	0.95	0.90
6						5.40	10		3.50	1.60	0.95	0.80
7					6.00	4.85	30		3.05	1.70	0.95	0.75
8					6.40	6.40	19	20	2.90	1.90	0.85	0.70
9					5.80	4.85	17	16	2.90	1.70	0.85	0.65
10					6.00	4.25	19	14	2.90	1.60	0.80	0.65
11					6.00	4.10	33	12	2.75	1.60	0.80	0.65
12					5.20	4.10	–	10	2.75	1.60	0.80	0.65
13					4.70	3.95	–	9.20	2.60	1.50	0.80	0.65
14					4.40	3.65	–	8.40	2.60	1.50	0.80	0.65
15					4.25	3.50	33	7.80	2.45	1.40	0.80	0.65
16					6.60	3.65	23	7.20	4.40	1.40	0.80	0.65
17					5.60	3.80	17	6.80	3.50	1.30	0.80	0.65
18					4.70	4.10	–	6.20	2.75	1.20	0.80	0.65
19					4.55	3.65	–	5.80	2.60	1.20	0.80	0.65
20					4.55	3.20	20	5.40	2.45	1.10	0.80	0.60
21					4.70	6.60	17	5.40	2.60	1.00	0.75	0.50
22						11	15	4.85	2.60	1.00	1.40	0.50
23						6.00	13	4.70	2.30	1.10	1.60	0.50
24						5.20	12	4.40	2.30	1.10	0.85	0.45
25						6.80	13	4.25	2.30	1.10	0.80	0.45
26						6.80	12	4.25	3.65	1.00	0.85	0.45
27						7.00	15	4.10	4.10	1.00	0.70	0.45
28					4.25	10	16	4.10	3.05	1.00	0.70	1.10
29					4.10	7.60	18	4.10	2.90	1.00	0.65	0.85
30					5.20	9.20	36	3.95	3.05	1.00	–	0.65
31					5.80	–	43	–	2.30	1.00	–	0.60
Total						179.85	–	–	92.90	42.80	25.60	20.30
Mean						5.99	–	–	2.99	1.38	0.88	0.65
Max.						11	–	–	4.40	2.00	1.60	1.10
Min.						3.20	–	–	2.30	1.00	0.65	0.45
Runoff - mcm.						15.539	–	–	8.026	3.697	2.211	1.753

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

Khlong Tha Di at Ban Na Kam, Nakhon Si Thammarat (X.55)

Location: Lat. 8°-23'-53" N., Long. 99°-50'-15" E., on left bank about 450 meters downstream from the bridge of Karom road at Ban Na Kam, Amphoe Lan Saka, Nakhon Si Thammarat.

Drainage Area: 105 sq.km.

Type of Gage: Staff gage

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

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

Location: BM1 near the staff gage , BM2 on right bank at abutment of the bridge.
Elevation: BM1 + 3.798 m. (A.D.), BM 2 + 6.706 m. (A.D.)

Gage Reading Frequency: 16-time daily readings at 03.00, 06.00-18.00, 21.00 and 24.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings.

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-71
Rated by Float: -
Rated by Current Meter: 1967-71

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

Overbank Flow Conditions: No overbank flow.

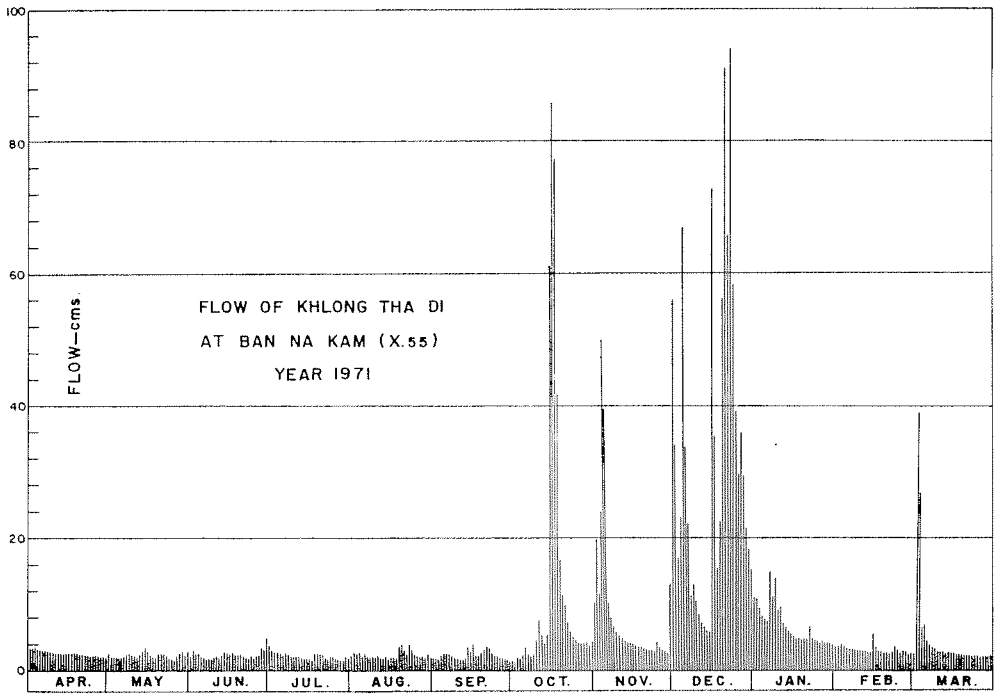
General Description: Records good. The data presented is made by discharge measurements during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.51	0.46	0.44	0.52	0.45	0.40	0.38	0.93	2.51	0.92	0.53	0.46
2	.51	.42	.49	.48	.48	.40	.39	1.27	1.21	.90	.54	1.47
3	.51	.42	.45	.47	.45	.39	.42	0.84	.19	.84	.55	.96
4	.50	.42	.47	.48	.48	.44	.41	2.34	.44	.79	.53	0.68
5	.49	.41	.42	.47	.42	.46	.45	1.42	2.83	.76	.52	.72
6	0.49	0.42	0.41	0.44	0.46	0.45	0.53	0.96	1.43	0.73	0.51	0.56
7	.48	.42	.40	.47	.43	.46	.45	.85	.33	1.11	.51	.54
8	.48	.45	.40	.44	.41	.43	.43	.75	0.90	0.94	.50	.52
9	.47	.46	.40	.44	.43	.41	.47	.68	1.00	1.05	.49	.50
10	.47	.43	.42	.43	.42	.40	.60	.65	0.89	0.83	.49	.49
11	0.47	0.42	0.43	0.42	0.45	0.39	0.76	0.62	0.79	0.86	0.49	0.48
12	.47	.42	.40	.43	.42	.39	.64	.60	.74	.72	.49	.47
13	.46	.45	.45	.41	.41	.39	.56	.58	.71	.69	.48	.46
14	.46	.48	.48	.41	.43	.53	.53	.56	.67	.67	.48	.47
15	.45	.52	.46	.41	.40	.48	2.79	.57	.67	.65	.65	.47
16	0.46	0.46	0.45	0.40	0.43	0.55	3.37	0.54	3.02	0.63	0.50	0.46
17	.46	.44	.47	.39	.42	.45	2.09	.53	1.61	.61	.49	.45
18	.46	.42	.44	.46	.42	.44	1.62	.52	.10	.62	.48	.45
19	.45	.41	.45	.47	.53	.46	.08	.52	.43	.60	.47	.44
20	.45	.44	.45	.46	.56	.50	0.92	.51	2.76	.61	.47	.44
21	0.44	0.44	0.43	0.45	0.49	0.53	0.86	0.50	3.50	0.62	0.46	0.43
22	.44	.44	.41	.42	.45	.52	.72	.50	2.72	.71	.48	.43
23	.43	.42	.40	.40	.56	.47	.66	.49	3.58	.60	.53	.43
24	.43	.41	.44	.44	.48	.44	.61	.48	2.55	.59	.50	.43
25	.43	.40	.41	.42	.45	.43	.59	.57	1.90	.58	.46	.43
26	0.43	0.39	0.44	0.41	0.44	0.42	0.56	0.52	1.64	0.56	0.49	0.42
27	.43	.43	.44	.39	.44	.41	.56	.51	.85	.59	.48	.42
28	.42	.47	.52	.38	.43	.41	.56	.48	.51	.57	.46	.43
29	.42	.49	.50	.39	.42	.39	.56	.47	.30	.56	.45	.42
30	.42	.43	.61	.42	.46	.38	.53	1.09	.23	.55	-	.44
31	-	.48	-	.41	.42	-	.59	-	.05	.54	-	.42
Mean	0.46	0.44	0.45	0.43	0.45	0.44	0.83	0.73	1.65	0.71	0.50	0.55
Max.	0.51	0.52	0.61	0.52	0.56	0.55	3.37	2.34	3.58	1.11	0.65	1.96
Min.	0.42	0.39	0.40	0.38	0.40	0.38	0.38	0.47	0.67	0.54	0.45	0.42

WATER YEAR 1971 : Max. 3.58 m. Min. 0.38 m.

สท. 55



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.36	2.64	2.36	3.52	2.50	1.80	1.60	11	56	11	3.68	2.64
2	3.36	2.08	3.06	2.92	2.92	1.80	1.70	20	18	11	3.84	25
3	3.36	2.08	2.50	2.78	2.50	1.70	2.08	9.34	17	9.34	4.00	39
4	3.20	2.08	2.78	2.92	2.92	2.36	1.94	50	24	8.31	3.68	6.24
5	3.06	1.94	2.08	2.78	2.08	2.64	2.50	23	67	7.74	3.52	6.98
6	3.06	2.08	1.94	2.36	2.64	2.50	3.68	12	24	7.17	3.36	4.16
7	2.92	2.08	1.80	2.78	2.22	2.64	2.50	9.55	21	15	3.36	3.84
8	2.92	2.50	1.80	2.36	1.94	2.22	2.22	7.55	11	11	3.20	3.52
9	2.78	2.64	1.80	2.36	2.22	1.94	2.78	6.24	13	14	3.06	3.20
10	2.78	2.22	2.08	2.22	2.08	1.80	4.80	5.70	10	9.13	3.06	3.06
11	2.78	2.08	2.22	2.08	2.50	1.70	7.74	5.16	8.31	9.76	3.06	2.92
12	2.78	2.08	1.80	2.22	2.08	1.70	5.52	4.80	7.36	6.98	3.06	2.78
13	2.64	2.50	2.50	1.94	1.94	1.70	4.16	4.48	6.79	6.42	2.92	2.64
14	2.64	2.92	2.92	1.94	2.22	3.68	3.68	4.16	6.06	6.06	2.92	2.78
15	2.50	3.52	2.64	1.94	1.80	2.92	65	4.32	6.06	5.70	5.70	2.78
16	2.64	2.64	2.50	1.80	2.22	4.00	86	3.84	73	5.34	3.20	2.64
17	2.64	2.36	2.78	1.70	2.08	2.50	76	3.68	29	4.98	3.06	2.50
18	2.64	2.08	2.36	2.64	2.08	2.36	29	3.52	15	5.16	2.92	2.50
19	2.50	1.94	2.50	2.78	3.68	2.64	15	3.52	24	4.80	2.78	2.36
20	2.50	2.36	2.50	2.64	4.16	3.20	11	3.36	64	4.98	2.78	2.36
21	2.36	2.36	2.22	2.50	3.06	3.68	9.76	3.20	91	5.16	2.64	2.22
22	2.36	2.36	1.94	2.08	2.50	3.52	6.98	3.20	63	6.79	2.92	2.22
23	2.22	2.08	1.80	1.80	4.16	2.78	5.88	3.06	94	4.80	3.68	2.22
24	2.22	1.94	2.36	2.36	2.92	2.36	4.98	2.92	57	4.64	3.20	2.22
25	2.22	1.80	1.94	2.08	2.50	2.22	4.65	4.32	37	4.48	2.64	2.22
26	2.22	1.70	2.36	1.94	2.36	2.08	4.16	3.52	29	4.16	3.06	2.08
27	2.22	2.22	2.36	1.70	2.36	1.94	4.16	3.36	36	4.64	2.92	2.08
28	2.08	2.78	3.52	1.60	2.22	1.94	4.16	2.92	26	4.32	2.64	2.22
29	2.08	3.06	3.20	1.70	2.08	1.70	4.16	2.78	20	4.16	2.50	2.08
30	2.08	2.22	4.98	2.08	2.64	1.60	3.68	15	18	4.00	–	2.36
31	–	2.92	–	1.94	2.08	–	4.64	–	14	3.84	–	2.08
Total	79.12	72.26	73.60	70.46	77.66	71.62	386.10	239.50	985.58	214.86	93.36	147.90
Mean	2.64	2.33	2.45	2.27	2.50	2.39	12.4	7.98	31.8	6.93	3.22	4.77
Max.	3.36	3.52	4.98	3.52	4.16	4.00	86	50	94	15	5.70	39
Min.	2.08	1.70	1.80	1.60	1.80	1.60	1.60	2.78	6.06	3.84	2.50	2.08
Runoff – mcm.	6.836	6.243	6.359	6.088	6.710	6.188	33.359	20.693	85.154	18.564	8.066	12.779

WATER YEAR 1971 : Max. 94 Min. 1.60 Mean 6.86 Annual Runoff 217.038 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.23	18.00	4.29	123				

TRANG RIVER BASIN

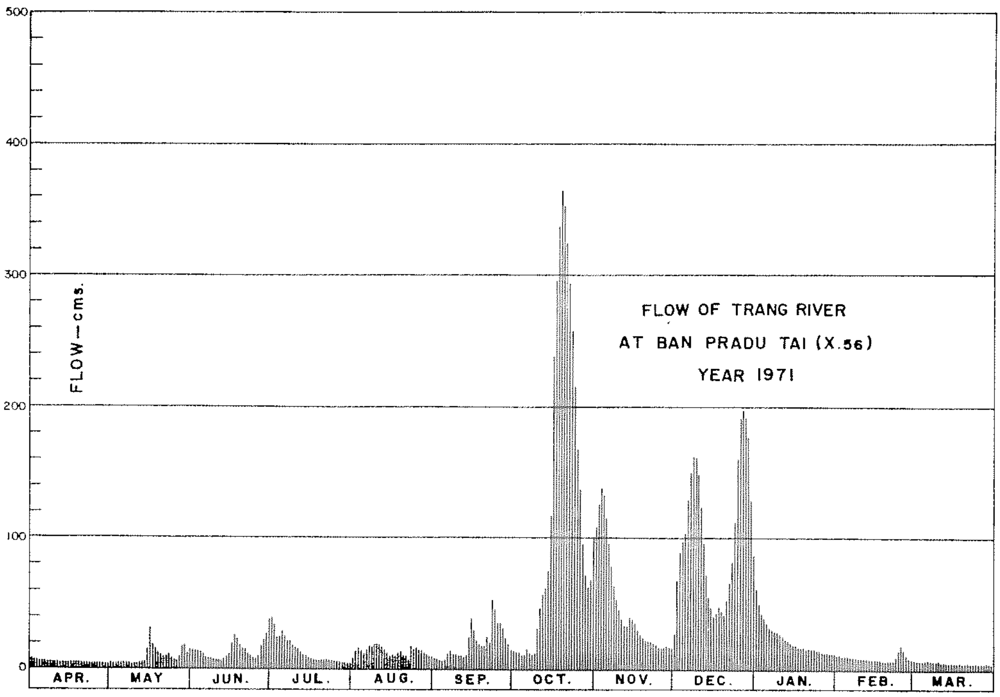
Trang River at Ban Pradu Tai, Trang (X.56)

Location:	Lat. 7°-45'-45" N., Long. 99°-32'-25" E., on left bank about 200 meters at left side from Huai Yat - Krabi highway, 16 kilometers from Amphoe Huai Yat, Trang.
Drainage Area:	1,801 sq.km.
Type of Gage:	Water-stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	on left bank near the camp of gaging station X56
Elevation:	+ 8.855 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1966 to date
Rating Operation:	
Period of Rating:	1966-1968
Rated by Float:	-
Rated by Current Meter:	1966-1968
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 1966-68. No State diversions for irrigation above gage site.
Remarks:	No records on April 1-4, 1971.
	* Estimated flow on April 1-4, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		1.49	2.03	3.10	1.81	1.74	2.00	5.28	2.75	3.90	1.85	1.65
2		.48	.02	2.78	2.04	.69	1.96	.69	4.25	.48	.84	.63
3		.56	.02	.46	.10	.64	.93	.98	.77	.23	.82	.62
4		.52	.02	.55	1.99	.62	.86	.83	.95	.07	.80	.61
5	1.60	.49	1.84	.69	.91	.76	.84	.37	5.13	2.92	.79	.64
6	1.58	1.47	1.77	2.45	2.03	1.98	2.08	4.91	5.85	2.80	1.78	1.64
7	.57	.46	.74	.37	.21	.98	.43	.38	6.28	.70	.77	.62
8	.56	.46	.70	.40	.20	.92	.37	3.88	.46	.64	.76	.60
9	.55	.47	.66	.27	.30	.85	.38	.53	.45	.61	.75	.58
10	.53	.49	.67	.16	.29	.86	.70	.24	.15	.58	.73	.56
11	1.53	1.49	1.67	2.08	2.25	1.83	3.35	3.03	5.54	2.52	1.71	1.55
12	.52	.54	.64	1.96	.18	.82	.71	2.88	4.70	.44	.70	.54
13	.51	.57	.74	.87	.06	.88	.84	.80	.04	.37	.69	.53
14	.51	.61	.83	.83	1.94	2.73	4.40	3.09	3.59	.32	.69	.52
15	.51	2.31	2.01	.76	.85	3.07	5.66	.01	.31	.26	.68	.51
16	1.51	2.73	2.38	1.72	1.84	2.71	7.67	2.91	3.14	2.21	1.67	1.50
17	.51	.26	.57	.69	.87	.35	8.10	.71	.22	.16	.65	.49
18	.49	.10	.37	.68	.93	.21	.28	.55	.39	.13	.64	.49
19	.48	1.94	.13	.68	2.00	.16	.40	.44	.25	.13	.64	.48
20	.47	.85	.08	.69	.31	.18	.34	.37	.17	.12	.63	.48
21	1.48	1.81	2.04	1.70	2.33	2.49	8.17	2.35	3.69	2.11	1.63	1.48
22	.49	.87	1.91	.67	.14	3.16	7.96	.33	4.15	.08	.65	.48
23	.47	.88	.81	.64	.66	.54	.69	.29	.54	.06	.79	.47
24	.47	.76	.75	.60	.49	.24	.30	.23	5.49	.03	2.05	.46
25	.47	.69	.72	.59	.17	2.88	6.59	.16	6.45	2.00	.19	.44
26	1.46	1.66	1.87	1.58	2.07	2.94	5.62	2.12	6.99	1.97	1.94	1.44
27	.47	.80	2.27	.56	.03	.72	4.70	.15	7.07	.95	.78	.43
28	.50	2.21	.46	.53	1.94	.43	.04	.21	6.92	.93	.72	.43
29	.48	.18	.68	.51	.85	.21	3.87	.13	.38	.90	.68	.42
30	.50	1.90	3.08	.51	.82	.06	4.08	.08	5.48	.88	-	.42
31	-	2.04	-	.51	.78	-	5.04	-	4.56	.86	-	.41
Mean	1.51	1.78	2.02	1.95	2.08	2.29	4.79	3.26	5.07	2.40	1.76	1.52
Max.	1.60	2.73	3.08	3.10	2.66	3.54	8.40	5.98	7.07	3.90	2.19	1.65
Min.	1.46	1.46	1.64	1.51	1.78	1.62	1.84	2.08	2.75	1.86	1.63	1.41

WATER YEAR 1971 : Max. 8.40 m. Min. 1.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	*7.25	4.85	15	40	10	8.80	14	110	31	63	11	7.20
2	*6.95	4.70	14	32	15	7.85	13	127	74	51	11	6.95
3	*6.80	5.90	14	24	16	7.25	13	139	92	43	10	6.80
4	*6.65	5.30	14	26	14	6.80	11	132	99	39	10	6.65
5	6.50	4.85	11	30	12	9.20	11	114	105	35	9.80	7.10
6	6.20	4.55	9.40	24	15	14	16	97	133	32	9.60	7.10
7	6.05	4.40	8.80	22	18	14	23	79	153	30	9.40	6.80
8	5.90	4.40	8.00	22	18	12	22	63	162	28	9.20	6.50
9	5.75	4.55	7.40	19	20	11	22	52	161	28	9.00	6.20
10	5.45	4.65	7.55	17	20	11	30	44	146	27	8.60	5.90
11	5.45	4.85	7.55	16	19	11	47	38	121	25	8.20	5.75
12	5.30	5.60	7.10	13	18	10	58	34	90	23	8.00	5.60
13	5.15	6.05	8.80	11	15	12	62	32	68	22	7.85	5.45
14	5.15	6.65	11	11	13	31	79	40	54	20	7.85	5.30
15	5.15	20	14	9.20	10	39	125	38	46	19	7.70	5.15
16	5.15	31	22	8.40	11	30	250	35	41	18	7.55	5.00
17	5.15	19	27	7.85	11	21	308	30	43	17	7.25	4.85
18	4.85	16	22	7.70	13	18	340	26	48	17	7.10	4.85
19	4.70	13	17	7.70	14	17	364	23	44	17	7.10	4.70
20	4.55	11	16	7.85	20	18	352	22	42	16	6.95	4.70
21	4.70	10	15	8.00	21	25	321	21	57	16	6.95	4.70
22	4.85	11	12	7.55	17	41	286	21	71	16	7.25	4.70
23	4.55	12	10	7.10	29	53	252	20	84	15	9.80	4.55
24	4.55	9.20	9.00	6.50	25	44	214	19	119	15	15	4.40
25	4.55	7.85	8.40	6.35	17	34	168	17	161	14	18	4.10
26	4.40	7.40	11	6.20	15	36	124	16	192	13	13	4.10
27	4.55	10	19	5.90	15	30	90	17	197	13	9.60	3.95
28	5.00	18	24	5.45	13	23	68	18	187	13	8.40	3.95
29	4.70	18	29	5.15	11	18	63	17	158	12	7.70	3.80
30	5.00	12	39	5.15	10	15	69	16	118	12	–	3.80
31	–	15	–	5.15	9.60	–	102	–	85	11	–	3.65
Total	159.95	311.95	438.00	424.20	484.60	627.90	3,917.00	1,457.00	3,182	720	268.85	164.25
Mean	5.33	10.1	14.6	13.7	15.6	22.4	126	48.6	103	23.2	9.27	5.30
Max.	7.25	31	39	40	29	53	364	139	197	63	18	7.20
Min.	4.40	4.40	7.10	5.15	9.60	6.80	11	16	31	11	6.95	3.65
Runoff – mcm.	13.820	26.952	37.843	36.651	41.869	54.250	338.429	125.885	274.925	62.208	23.229	14.191

WATER YEAR 1971 : Max. 364 Min. 3.65 Mean 33.3 Annual Runoff 1,050.252 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	15.00	8.42	368				

KHLONG THA KHAE RIVER BASIN

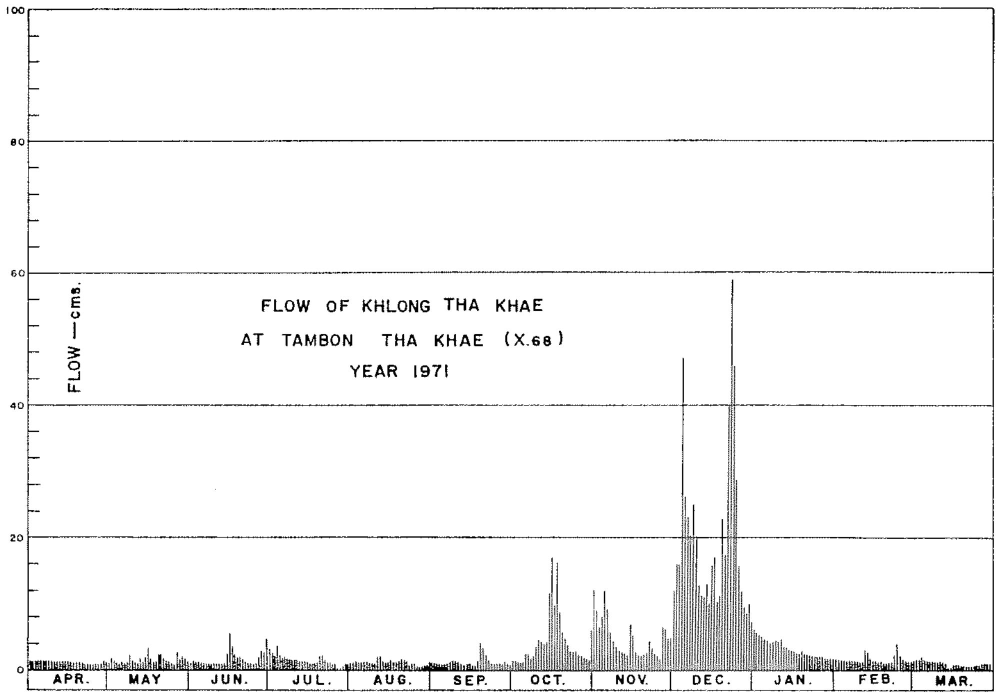
Khlong Tha Khae at Tambon Tha Khae, Phatthalung (X. 68)

Location:	Lat. 7°-34'-01" N., Long. 100°-03'-05" E., on left bank downstream side of the bridge on Phatthalung - Hat Yai highway, at Tambon Tha Khae, Amphoe Muang, Phatthalung.
Drainage Area:	298 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	On right bank about 15 meters from the highway bridge.
Elevation:	+ 4.659 m. (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967-72
Rated by Float:	-
Rated by Current Meter:	1967-72
Stability of Channel Regimes:	Fairly stable because of fairly sedimentation, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow
General Description:	Records good. The data presented is made by discharge measurements during 1971. No State diversions for irrigation at above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	0.48	0.51	0.78	0.51	0.51	0.53	1.54	1.27	1.08	0.60	0.55
2	.54	.61	.55	.72	.57	.47	.56	.27	.80	.03	.59	.59
3	.56	.50	.52	.66	.55	.45	.51	.08	.79	.00	.58	.59
4	.58	.48	.52	.82	.50	.45	.48	.28	.52	0.97	.57	.64
5	.57	.47	.51	.66	.50	.45	.57	.52	3.27	.93	.56	.58
6	0.56	0.53	0.49	0.62	0.54	0.47	0.69	1.24	2.22	0.91	0.55	0.55
7	.55	.49	.49	.64	.51	.48	.68	.02	.14	.90	.55	.54
8	.55	.54	.48	.60	.50	.58	.57	0.91	.00	.91	.55	.53
9	.55	.68	.48	.60	.50	.54	.71	.83	.27	.94	.54	.53
10	.53	.55	.49	.60	.51	.52	.90	.77	1.93	.91	.53	.51
11	0.53	0.50	0.48	0.62	0.64	0.46	0.94	0.74	1.55	0.85	0.54	0.56
12	.53	.49	.47	.59	.64	.43	.88	.71	.48	.82	.75	.53
13	.53	.61	.51	.56	.53	.48	.87	.69	.46	.80	.73	.49
14	.53	.53	.54	.57	.52	.50	.95	.67	.62	.78	.60	.31
15	.52	.63	.78	.58	.55	.48	1.54	1.15	.34	.76	.55	.30
16	0.51	0.80	1.04	0.53	0.58	0.42	1.86	0.79	1.79	0.73	0.55	0.44
17	.51	.58	0.86	.51	.53	.40	.30	.71	.83	.72	.54	.44
18	.51	.53	.67	.52	.55	.59	.76	.68	.40	.71	.52	.43
19	.51	.56	.61	.54	.58	.89	.24	.65	.50	.76	.51	.40
20	.51	.71	.65	.64	.60	.81	.00	.71	2.16	.70	.51	.39
21	0.48	0.69	0.58	0.66	0.57	0.66	0.94	0.74	1.78	0.69	0.51	0.39
22	.44	.62	.54	.58	.55	.57	.81	.92	2.95	.68	.52	.38
23	.47	.55	.52	.56	.41	.47	.74	.74	3.35	.66	.62	.37
24	.47	.53	.51	.53	.49	.45	.74	.68	.70	.65	.87	.41
25	.47	.51	.50	.49	.49	.45	.75	.65	2.44	.64	.67	.43
26	0.47	0.48	0.53	0.48	0.39	0.50	0.66	0.82	1.81	0.64	0.60	0.43
27	.47	.76	.66	.32	.40	.45	.64	1.13	.51	.63	.58	.49
28	.47	.62	.76	.43	.42	.52	.61	.09	.35	.63	.56	.48
29	.52	.64	.71	.46	.43	.45	.61	0.95	.28	.61	.55	.47
30	.50	.63	.97	.46	.51	.44	.70	.92	.42	.61		.46
31		.54		.49	.51		1.23		.15	.61		.43
Mean	0.52	0.57	0.60	0.59	0.52	0.51	0.87	0.92	1.90	0.78	0.58	0.47
Max.	0.58	0.80	1.04	0.82	0.64	0.89	1.86	1.54	3.70	1.08	0.87	0.64
Min.	0.44	0.47	0.47	0.32	0.39	0.40	0.48	0.65	1.15	0.61	0.51	0.30

WATER YEAR 1971 : Max. 3.70 m. Min. 0.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.40	1.00	1.16	3.14	1.16	1.16	1.28	12	8.41	6.08	1.70	1.40
2	1.34	1.78	1.40	2.66	1.52	0.95	1.46	8.41	16.	5.53	1.64	1.64
3	1.46	1.10	1.22	2.18	1.40	0.85	1.16	6.08	16	5.20	1.58	1.64
4	1.58	1.00	1.22	3.48	1.10	0.85	1.00	8.54	12	4.90	1.52	2.02
5	1.52	0.95	1.16	2.18	1.10	0.85	1.52	12	47	4.50	1.46	1.58
6	1.46	1.28	1.05	1.86	1.34	0.95	2.42	8.02	24	4.30	1.40	1.40
7	1.40	1.05	1.05	2.02	1.16	1.00	2.34	5.42	23	4.20	1.40	1.34
8	1.40	1.34	1.00	1.70	1.10	1.58	1.52	4.30	20	4.30	1.40	1.28
9	1.40	2.34	1.00	1.70	1.10	1.34	2.58	3.57	25	4.60	1.34	1.28
10	1.28	1.40	1.05	1.70	1.16	1.22	4.20	3.06	19	4.30	1.28	1.16
11	1.28	1.10	1.00	1.86	2.02	0.90	4.60	2.82	12	4.75	1.34	1.46
12	1.28	1.05	0.95	1.64	2.02	0.75	4.02	2.58	11	3.48	2.90	1.28
13	1.28	1.78	1.16	1.46	1.28	1.00	3.93	2.42	11	3.30	2.74	1.05
14	1.28	1.28	1.34	1.52	1.22	1.10	4.70	2.26	13	3.14	1.70	0.24
15	1.22	1.94	3.14	1.58	1.40	1.00	12	6.90	9.32	2.98	1.40	0.20
16	1.16	3.30	5.64	1.28	1.58	0.70	17	3.22	16	2.74	1.40	0.80
17	1.16	1.58	3.84	1.16	1.28	0.60	8.80	2.58	17	2.66	1.34	0.80
18	1.16	1.28	2.26	1.22	1.40	1.64	16	2.34	10	2.58	1.22	0.75
19	1.16	1.46	1.78	1.34	1.58	4.11	8.02	2.10	12	2.98	1.16	0.60
20	1.16	2.58	2.10	2.02	1.70	3.39	5.20	2.58	23	2.50	1.16	0.56
21	1.00	2.42	1.58	2.18	1.52	2.18	4.60	2.82	16	2.42	1.16	0.56
22	0.80	1.86	1.34	1.58	1.40	1.52	3.39	4.40	40	2.34	1.22	0.52
23	0.95	1.40	1.22	1.46	0.65	0.95	2.82	2.82	49	2.18	1.86	0.48
24	0.95	1.28	1.16	1.28	1.05	0.85	2.82	2.34	59	2.10	3.93	0.65
25	0.95	1.16	1.10	1.05	1.05	0.85	2.90	2.10	29	2.02	2.26	0.75
26	0.95	1.00	1.28	1.00	0.56	1.10	2.18	3.48	16	2.02	1.70	0.75
27	0.95	2.98	2.18	0.28	0.60	0.85	2.02	6.66	12	1.94	1.58	1.05
28	0.95	1.86	2.98	0.75	0.70	1.22	1.78	6.19	9.45	1.94	1.46	1.00
29	1.22	2.02	2.58	0.90	0.75	0.85	1.78	4.70	8.54	1.78	1.40	0.95
30	1.10	1.94	4.90	0.90	1.16	0.80	2.50	4.40	10	1.78	–	0.90
31	–	1.34	–	1.05	1.16	–	7.89	–	6.90	1.78	–	0.75
Total	36.20	49.85	54.84	50.13	38.22	37.11	138.43	141.11	600.62	100.32	47.65	30.84
Mean	1.21	1.61	1.83	1.62	1.23	1.24	4.46	4.70	19.4	3.24	1.64	0.99
Max.	1.58	3.30	5.64	3.48	2.02	4.11	17	12	59	6.08	3.93	2.02
Min.	0.80	0.95	0.95	0.28	0.56	0.60	1.00	2.10	6.90	1.78	1.16	0.20
Runoff - mcm.	3.128	4.307	4.738	4.331	3.302	3.206	11.960	12.192	51.894	8.668	4.117	2.665

WATER YEAR 1971 : Max. 59 Min. 0.20 Mean 3.62 Annual Runoff 114.508 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.24	15.00	3.92	66				

KHLONG BAN TAN RIVER BASIN

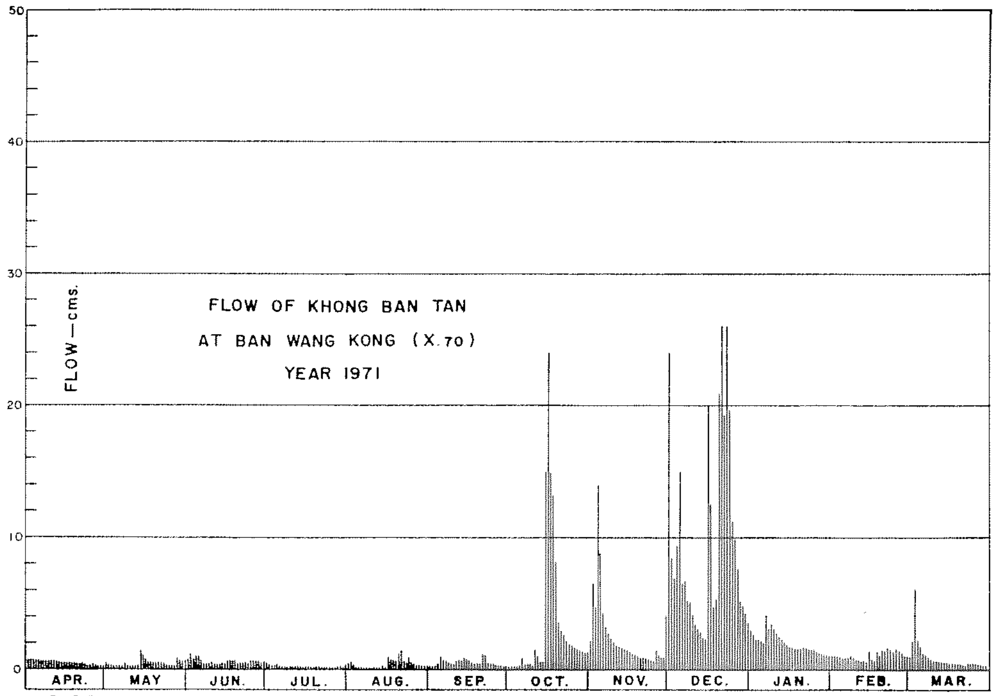
Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (X.70)

Location:	Lat. 8^{0}-25'-35" N., Long. 99^{0}-51'-53" E., on right bank downstream side of the bridge on Nakhon Si Thammarat, Amphoe Muang, Nakhon Si Thammarat.
Drainage Area:	39 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	About 5 meters east of the top gage.
Elevation:	+ 7.247 m. (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967-1971
Rated by Float:	-
Rated by Current Meter:	1967-1971
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 1971. No State diversions for irrigation above gage site except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	0.25	0.28	0.25	0.26	0.20	0.20	0.60	2.95	0.68	0.34	0.33
2	.29	.21	.36	.22	.27	.20	.20	1.19	1.31	.63	.33	.56
3	.29	.20	.30	.21	.19	.22	.20	0.76	.23	.57	.33	1.14
4	.29	.20	.34	.21	.18	.23	.19	2.01	.63	.55	.32	0.47
5	.29	.21	.33	.21	.18	.32	.22	1.20	2.10	.54	.32	.44
6	0.28	0.21	0.25	0.20	0.18	0.30	0.32	0.83	1.19	0.52	0.32	0.35
7	.28	.20	.24	.20	.17	.28	.23	.71	.22	.87	.31	.33
8	.27	.23	.24	.20	.17	.25	.22	.62	0.99	.69	.33	.32
9	.27	.21	.24	.20	.17	.23	.23	.55	.99	.78	.32	.30
10	.27	.20	.25	.20	.17	.22	.22	.50	.83	.70	.30	.28
11	0.27	0.20	0.24	0.20	0.17	0.29	0.40	0.46	0.74	0.64	0.29	0.27
12	.27	.21	.24	.20	.16	.30	.32	.44	.70	.59	.29	.26
13	.26	.21	.24	.20	.16	.30	.28	.42	.65	.54	.28	.26
14	.26	.39	.25	.20	.21	.32	.27	.41	.58	.50	.28	.25
15	.25	.34	.25	.20	.20	.29	2.24	.39	.59	.47	.38	.25
16	0.25	0.29	0.27	0.20	0.32	0.27	2.96	0.37	2.60	0.44	0.30	0.24
17	.25	.26	.28	.20	.30	.24	.05	.35	1.35	.43	.30	.24
18	.25	.25	.28	.19	.30	.23	1.90	.35	0.96	.43	.39	.24
19	.24	.24	.27	.19	.28	.26	0.95	.34	1.06	.42	.34	.23
20	.24	.24	.26	.19	.35	.26	.74	.33	2.85	.43	.39	.23
21	0.23	0.24	0.25	0.19	0.39	0.35	0.67	0.32	3.10	0.45	0.41	0.22
22	.23	.24	.25	.19	.28	.33	.63	.31	2.52	.43	.43	.22
23	.22	.23	.26	.18	.24	.26	.53	.31	3.10	.42	.41	.26
24	.22	.22	.25	.18	.32	.24	.49	.30	2.36	.40	.37	.25
25	.22	.22	.27	.18	.25	.23	.46	.30	1.76	.38	.42	.24
26	0.22	0.22	0.28	0.18	0.23	0.22	0.42	0.38	1.66	0.37	0.40	0.23
27	.21	.22	.27	.18	.22	.22	.40	.34	.32	.36	.37	.22
28	.21	.32	.27	.22	.22	.21	.38	.32	.01	.35	.34	.22
29	.20	.28	.26	.21	.21	.21	.37	.29	0.97	.35	.33	.22
30	.20	.27	.28	.20	.21	.20	.37	.93	.89	.34	-	.22
31	-	.28	-	.23	.20	-	.38	-	.77	.34	-	.22
Mean	0.25	0.24	0.27	0.20	0.23	0.25	0.62	0.55	1.48	0.50	0.34	0.31
Max.	0.30	0.39	0.36	0.25	0.39	0.35	2.96	2.01	3.10	0.87	0.43	1.14
Min.	0.20	0.20	0.24	0.18	0.16	0.20	0.19	0.29	0.58	0.34	0.28	0.22

WATER YEAR 1971 : Max. 3.10 m. Min. 0.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.76	0.51	0.66	0.51	0.56	0.26	0.26	2.50	24	2.98	1.09	1.01
2	0.71	0.31	1.25	0.36	0.61	0.26	0.26	6.52	7.48	2.68	1.01	2.30
3	0.71	0.26	0.76	0.31	0.23	0.36	0.26	3.46	6.84	2.35	1.01	6.12
4	0.71	0.26	1.08	0.31	0.20	0.41	0.23	14	10	2.25	0.92	1.85
5	0.71	0.31	1.00	0.31	0.20	0.92	0.36	6.60	15	2.20	0.92	1.70
6	0.66	0.31	0.51	0.26	0.20	0.76	0.92	3.91	6.52	2.10	0.92	1.17
7	0.66	0.26	0.46	0.26	0.18	0.66	0.41	3.16	6.76	4.19	0.84	1.01
8	0.61	0.41	0.46	0.26	0.18	0.51	0.36	2.62	5.03	3.04	1.01	0.92
9	0.61	0.31	0.46	0.26	0.18	0.41	0.41	2.25	5.03	3.58	0.92	0.76
10	0.61	0.26	0.51	0.26	0.18	0.36	0.36	2.00	3.91	3.10	0.76	0.66
11	0.61	0.26	0.46	0.26	0.18	0.71	1.50	1.80	3.34	2.74	0.71	0.61
12	0.61	0.31	0.46	0.26	0.15	0.76	0.92	1.70	3.10	2.45	0.71	0.56
13	0.56	0.31	0.46	0.26	0.15	0.76	0.66	1.60	2.80	2.20	0.66	0.56
14	0.56	1.46	0.51	0.26	0.31	0.92	0.61	1.55	2.14	2.00	0.66	0.51
15	0.51	1.08	0.51	0.26	0.26	0.71	16	1.46	2.45	1.85	1.42	0.51
16	0.51	0.71	0.61	0.26	0.92	0.61	24	1.33	20	1.70	0.76	0.46
17	0.51	0.56	0.66	0.26	0.76	0.46	14	1.17	7.80	1.65	0.76	0.46
18	0.51	0.51	0.66	0.23	0.76	0.41	13	1.17	4.82	1.65	1.46	0.46
19	0.46	0.46	0.61	0.23	0.66	0.56	4.75	1.08	5.42	1.60	1.09	0.41
20	0.46	0.46	0.56	0.23	1.17	0.56	3.34	1.00	23	1.65	1.46	0.41
21	0.41	0.46	0.51	0.23	1.46	1.17	2.92	0.92	26	1.75	1.55	0.36
22	0.41	0.46	0.51	0.23	0.66	1.00	2.68	0.84	19	1.65	1.65	0.36
23	0.36	0.41	0.56	0.20	0.46	0.56	2.15	0.84	26	1.60	1.55	0.56
24	0.36	0.36	0.51	0.20	0.92	0.46	1.95	0.76	17	1.50	1.33	0.51
25	0.36	0.36	0.61	0.20	0.51	0.41	1.80	0.76	11	1.42	1.60	0.46
26	0.36	0.36	0.66	0.20	0.41	0.36	1.60	1.42	10	1.33	1.50	0.41
27	0.31	0.36	0.61	0.20	0.36	0.36	1.50	1.08	7.56	1.25	1.33	0.36
28	0.31	0.92	0.61	0.36	0.36	0.31	1.42	0.92	5.17	1.17	1.09	0.36
29	0.26	0.66	0.56	0.31	0.31	0.31	1.33	0.71	4.89	1.17	1.01	0.36
30	0.26	0.61	0.66	0.26	0.31	0.26	1.33	4.61	4.33	1.08	–	0.36
31	–	0.66	–	0.41	0.26	–	1.42	–	3.52	1.08	–	0.36
Total	15.45	14.94	18.45	8.41	14.06	16.57	102.71	73.74	299.91	62.96	31.70	26.91
Mean	0.51	0.48	0.61	0.27	0.45	0.55	3.31	2.46	9.67	2.03	1.09	0.87
Max.	0.76	1.46	1.25	0.51	1.46	1.17	24	14	26	4.19	1.65	6.12
Min.	0.26	0.26	0.46	0.20	0.15	0.26	0.23	0.71	2.14	1.08	0.66	0.36
Runoff – mcm.	1.335	1.291	1.594	0.727	1.215	1.432	8.874	6.371	25.912	5.440	2.739	2.325

WATER YEAR 1971 : Max. 26 Min. 0.15 Mean 1.87 Annual Runoff 59.254 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.23	23.00	4.02	38				

KHLONG THEPHA RIVER BASIN

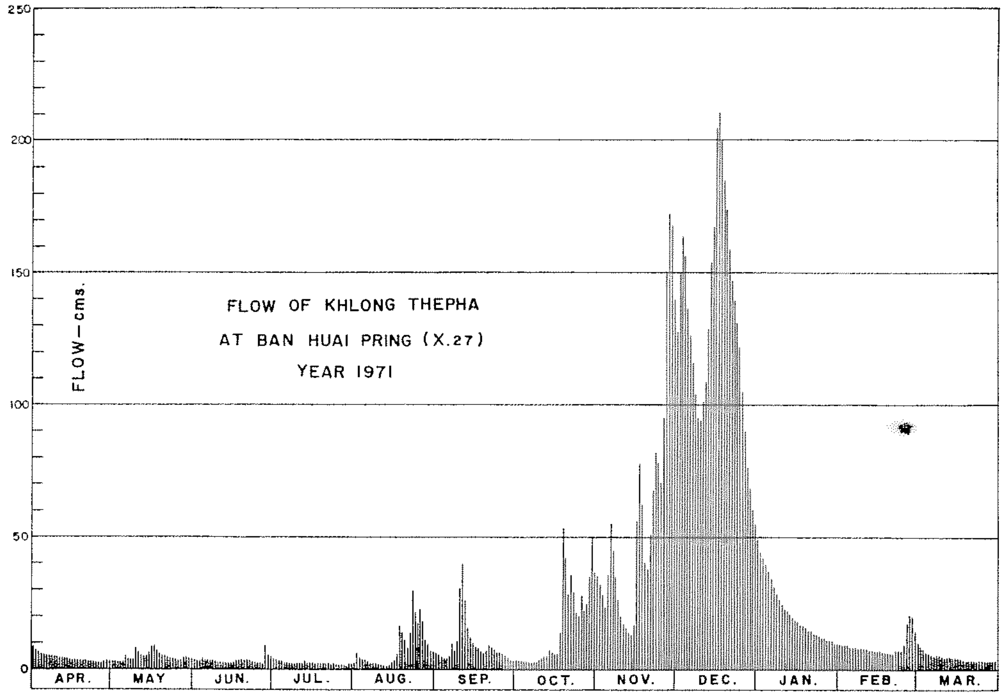
Khlong Thepha River at Ban Huai Pring, Songkhla (X.27)

Location:	Lat. 6^0-42'-50" N., Long. 100^0-57'-48" E., on right bank at Ban Huai Pring, 8 kilometers upstream from state railway bridge, Amphoe Thepha, Songkhla.
Drainage Area:	1,557 sq.km.
Type of Gage:	Water-Stage recorder
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	on right bank near the camp of station X27.
Elevation:	+ 48.830 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1959-1975
Rating Operation:	
Period of Rating:	1959-1969
Rated by Float:	-
Rated by Current Meter:	1959-1969
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Overbank flow is included for flow computation.
General Description:	Records good. Stage-discharge relationship used is defined by discharge measurements made during 1966-68. No State diversions for irrigation above gage site except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.54	1.11	1.17	1.23	1.07	1.37	1.14	3.01	6.08	3.60	1.64	1.63
2	.43	.10	.16	.17	.37	.32	.12	2.90	.55	.40	.62	.52
3	.38	.09	.15	.15	.21	.28	.11	.70	.77	.35	.60	.45
4	.35	.08	.24	.12	.17	.25	.12	.43	.66	.26	.59	.39
5	.35	.10	.18	.08	.19	.25	.10	.89	.33	.11	.57	.37
6	1.33	1.29	1.16	1.06	1.10	1.34	1.06	3.89	6.14	2.97	1.56	1.34
7	.30	.19	.14	.04	.03	.68	.05	.44	5.91	.87	.54	.32
8	.29	.17	.12	.03	.03	.43	.06	2.86	.64	.74	.52	.31
9	.27	.18	.10	.02	.02	.78	.09	.52	.41	.60	.52	.29
10	.26	.52	.08	.02	.00	2.94	.15	.27	.40	.52	.51	.28
11	1.24	1.42	1.07	1.01	0.99	3.23	1.21	2.10	5.64	2.46	1.49	1.27
12	.23	.29	.06	.05	.98	2.39	.25	.05	.85	.39	.48	.25
13	.21	.27	.05	.11	.97	1.90	.33	1.92	6.30	.32	.47	.25
14	.20	.30	.06	.08	.97	.78	.50	.89	.66	.27	.46	.24
15	.18	.37	.07	.06	1.10	.68	.39	2.19	.82	.22	.45	.23
16	1.17	1.64	1.14	1.03	1.17	1.56	1.34	4.27	7.25	2.16	1.44	1.21
17	.16	.58	.19	.02	.49	.46	.34	.83	.30	.13	.42	.20
18	.16	.40	.18	.01	2.11	.38	2.13	3.99	.18	.09	.40	.19
19	.15	.35	.15	.02	1.90	.37	3.82	.14	.02	.05	.40	.18
20	.13	.30	.13	.03	.72	.48	.04	.09	6.88	.01	.38	.17
21	1.12	1.29	1.12	1.03	1.50	1.61	2.65	3.70	6.70	1.97	1.37	1.17
22	.11	.28	.11	.02	.94	.53	3.09	4.51	.49	.93	.44	.16
23	.10	.25	.08	.03	2.81	.46	2.76	.97	.37	.89	.47	.14
24	.09	.21	.06	.02	.33	.41	.36	.82	.17	.85	.46	.13
25	.09	.18	.05	.00	.11	.39	.30	.45	5.87	.82	.49	.12
26	1.08	1.15	1.04	0.99	2.45	1.37	2.69	5.46	5.56	1.79	2.05	1.11
27	.07	.20	.03	.97	.01	.32	.37	6.62	.11	.75	.36	.10
28	.06	.29	.62	.95	1.76	.23	.58	.87	4.73	.72	.25	.11
29	.16	.25	.31	.96	.58	.19	3.07	.81	.39	.70	1.92	.12
30	.12	.22	.28	1.02	.48	.17	.68	.37	.07	.66	-	.14
31	-	.20	-	.03	.42	-	.11	-	3.82	.65	-	.15
Mean	1.21	1.27	1.14	1.04	1.48	1.58	1.93	3.66	5.81	2.33	1.58	1.24
Max.	1.54	1.64	1.62	1.23	2.81	3.23	3.82	6.87	7.30	3.60	2.36	1.63
Min.	1.07	1.08	1.03	0.95	0.97	1.17	1.05	1.89	3.82	1.65	1.37	1.10

WATER YEAR 1971 : Max. 7.30 m. Min. 0.95 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.46	3.10	3.70	4.36	2.70	6.11	3.40	35	121	48	9.86	9.72
2	6.92	3.00	3.60	3.70	6.11	5.46	3.20	32	148	44	9.58	8.18
3	6.24	2.90	3.50	3.50	4.12	4.96	3.10	28	164	42	9.30	7.20
4	5.85	2.80	4.48	3.20	3.70	4.60	3.20	23	156	40	9.16	6.37
5	5.85	3.00	3.80	2.80	3.90	4.60	3.00	32	134	37	8.88	6.11
6	5.59	5.08	3.60	2.60	3.00	5.72	2.60	55	124	34	8.74	5.72
7	5.20	3.90	3.40	2.40	2.30	10	2.50	44	113	32	8.46	5.46
8	5.08	3.70	3.20	2.30	2.30	6.92	2.60	31	102	29	8.18	5.33
9	4.84	3.80	3.00	2.20	2.20	12	2.90	25	95	26	8.18	5.08
10	4.72	8.18	2.80	2.20	2.00	33	3.50	20	94	25	8.04	4.96
11	4.48	6.78	2.70	2.10	1.95	40	4.12	17	102	23	7.76	4.84
12	4.36	5.08	2.60	2.50	1.90	22	4.60	16	111	22	7.62	4.60
13	4.12	4.84	2.50	3.10	1.85	14	5.59	14	132	21	7.48	4.60
14	4.00	5.20	2.60	2.80	1.85	12	7.90	13	156	20	7.34	4.48
15	3.80	6.11	2.70	2.60	3.00	10	6.37	18	168	19	7.20	4.36
16	3.70	9.86	3.40	2.30	3.70	8.74	5.72	64	205	18	7.06	4.12
17	3.60	9.02	3.90	2.20	7.76	7.34	5.72	78	210	17	6.78	4.00
18	3.60	6.50	3.80	2.10	17	6.24	17	57	198	17	6.50	3.90
19	3.50	5.85	3.50	2.20	14	6.11	53	38	184	16	6.50	3.80
20	3.30	5.20	3.30	2.30	11	7.62	35	36	172	15	6.24	3.70
21	3.20	5.08	3.20	2.30	7.90	9.44	27	50	158	15	6.11	3.70
22	3.10	4.96	3.10	2.20	14	8.32	36	70	144	14	7.06	3.60
23	3.00	4.60	2.80	2.30	30	7.34	29	82	137	13	7.48	3.40
24	2.90	4.12	2.60	2.20	21	6.64	21	77	125	13	7.34	3.30
25	2.90	3.80	2.50	2.00	17	6.37	20	68	112	12	7.76	3.20
26	2.80	3.50	2.40	1.95	23	6.11	28	96	100	12	16	3.10
27	2.70	4.00	2.30	1.85	17	5.46	22	153	86	11	21	3.00
28	2.80	5.08	9.58	1.75	11	4.36	26	172	75	11	20	3.10
29	3.60	4.60	5.33	1.80	9.02	3.90	36	167	67	11	14	3.20
30	3.20	4.24	4.96	2.20	7.62	3.70	50	137	59	10	–	3.40
31	–	4.00	–	2.30	6.78	–	37	–	53	10	–	3.50
Total	127.41	151.88	104.85	76.31	258.66	289.06	507.02	1,748	4,005	677	265.61	143.03
Mean	4.25	4.90	3.49	2.46	8.34	9.63	16.3	58.3	129	21.8	9.16	4.61
Max.	8.46	9.86	9.58	4.36	30	40	53	172	210	48	21	9.72
Min.	2.70	2.80	2.30	1.75	1.85	3.70	2.50	13	53	10	6.11	3.00
Runoff – mcm.	11.008	13.122	9.059	6.593	22.348	24.975	43.807	151.027	346.032	58.493	22.949	12.358

WATER YEAR 1971 : Max. 210 Min. 1.75 Mean 22.8 Annual Runoff 721.771 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.17	04.00	7.32	212				

KHLONG U-TAPHAO RIVER BASIN

Khlong Wat at Ton Nga Chang, Songkhla (X. 14)

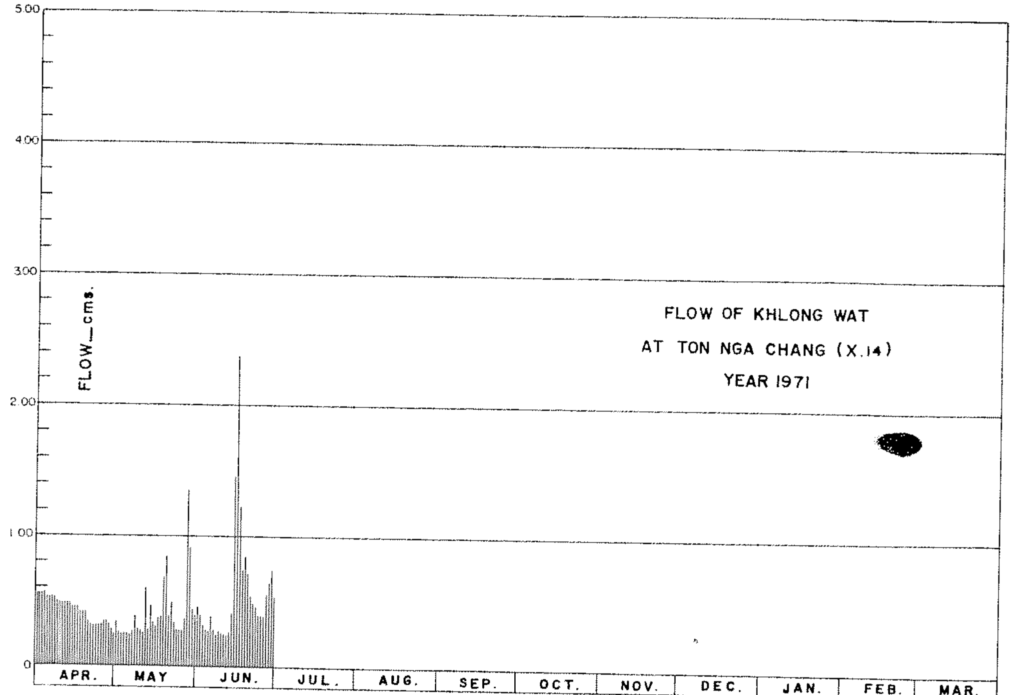
Location:	Lat. 6°-55'-00" N., Long. 100°-25'-00" E., on left bank about 5 kilometers from Phet Kasem Highway at Ban Tha Rae, Amphoe Hat Yai, Songkhla.
Drainage Area:	71 sq.km.
Type of Gage:	Water-stage recorder.
Zero Gage at Bottom at:	+ 109.50 m. (A.D.)
Bench Mark:	B.M. - H.S./R.I.D.
Location:	Near the Meteorological station
Elevation:	+ 114.598 m. (A.D.)
Gage Reading Frequency:	Recording
Basis of Mean Daily Gage Height:	Arithmetic mean of 24 hourly readings.
Period of Available Gage Records:	1954-1971
Rating Operation:	
Period of Rating:	1954-1971
Rated by Float:	-
Rated by Current Meter:	1954-1971
Stability of Channel Regimes:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. The data presented is made by discharge measurements during 1970. No State diversions for irrigation above gage site. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.79	109.73	109.76									
2	.79	.70	.74									
3	.79	.70	.72									
4	.78	.70	.71									
5	.78	.70	.71									
6	109.78	109.70	109.74									
7	.78	.71	.71									
8	.77	.74	.70									
9	.77	.71	.71									
10	.77	.71	.70									
11	109.77	109.70	109.70									
12	.77	.80	.70									
13	.77	.71	.71									
14	.76	.76	.76									
15	.76	.72	110.07									
16	109.76	109.72	110.01									
17	.75	.74	109.90									
18	.75	.74	.83									
19	.75	.82	.85									
20	.73	.85	.81									
21	109.72	109.74	109.78									
22	.72	.77	.77									
23	.72	.72	.76									
24	.72	.71	.74									
25	.72	.71	.74									
26	109.73	109.71	109.74									
27	.73	.74	.79									
28	.72	.94	.81									
29	.71	.81	.83									
30	.70	.75	.78									
31	-	.74	-									
Mean	109.75	109.74	109.78									
Max.	109.79	109.94	110.07									
Min.	109.70	109.70	109.70									

ENDING GAGE RECORD

WATER YEAR 1971 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.56	0.35	0.46									
2	0.56	0.25	0.39									
3	0.56	0.25	0.32									
4	0.53	0.25	0.28									
5	0.53	0.25	0.28									
6	0.53	0.25	0.39									
7	0.53	0.28	0.28									
8	0.49	0.39	0.25									
9	0.49	0.28	0.28									
10	0.49	0.28	0.25									
11	0.49	0.25	0.25									
12	0.49	0.60	0.25									
13	0.49	0.28	0.28									
14	0.46	0.46	0.46									
15	0.46	0.32	2.37									
16	0.46	0.32	1.83									
17	0.42	0.39	1.08									
18	0.42	0.39	0.74			Ending Gage Record						
19	0.42	0.70	0.84									
20	0.35	0.84	0.65									
21	0.32	0.39	0.53									
22	0.32	0.49	0.49									
23	0.32	0.32	0.46									
24	0.32	0.28	0.39									
25	0.32	0.28	0.39									
26	0.35	0.28	0.39									
27	0.35	0.39	0.56									
28	0.32	1.34	0.65									
29	0.28	0.65	0.74									
30	0.25	0.42	0.53									
31	-	0.39	-									
Total	12.88	12.61	17.06									
Mean	0.43	0.41	0.57									
Max.	0.56	1.34	2.37									
Min.	0.25	0.25	0.25									
Runoff - mcm.	1.113	1.089	1.474									

WATER YEAR 1971 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

Khlong U-Thaphao at Ban Khok Samet Chum, Songkhla (X.44)

Location: Lat. 7°-00'-02" N., Long. 100°-27'-32" E., on left bank upstream side of the concrete bridge on Patthalung - Hat Yai highway, Amphoe Hat Yai, Songkhla.

Drainage Area: 1,441 sq.km.

Type of Gage: Staff gage

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

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

Location: Near the staff gage
Elevation: + 6.582 m. (A.D.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-71
Rated by Float: -
Rated by Current Meter: 1967-71

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

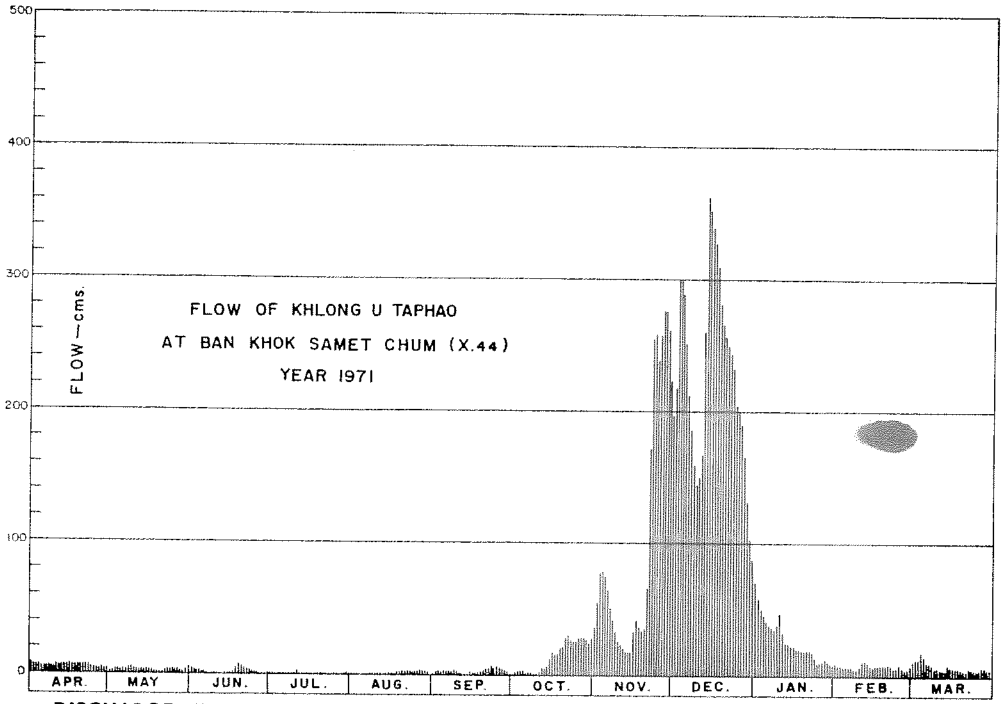
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1970. No State diversions for irrigation above gage site except those built by local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.13	0.86	0.93	0.76	0.74	0.78	0.78	2.06	4.73	2.71	1.17	1.26
2	.06	.80	.89	.77	.71	.84	.91	2.55	5.44	.53	.13	.31
3	.06	.94	.84	.70	.70	.84	.94	.80	6.23	.37	.13	.35
4	.06	.90	.84	.79	.73	.88	.94	.80	6.21	.23	.11	.47
5	.02	.89	.78	.68	.66	.90	.94	.76	5.76	.08	.08	.36
6	1.03	0.94	0.77	0.70	0.69	0.85	0.79	2.62	5.28	2.01	1.07	1.22
7	.03	.90	.67	.62	.73	.87	.79	.36	4.80	.01	.09	.19
8	.04	.96	.69	.70	.77	.87	.79	.10	.45	1.93	.00	.11
9	.01	.97	.67	.83	.71	.92	.71	1.98	.13	.97	.02	.01
10	0.97	.93	.64	.80	.72	.85	.74	.70	3.92	2.23	1.10	.05
11	1.09	0.93	0.67	0.85	0.77	0.81	0.92	1.60	4.09	2.02	1.22	1.02
12	.08	.92	.67	.72	.75	.76	1.04	.51	4.54	1.76	.27	0.96
13	.04	.91	.68	.64	.79	.76	0.96	.45	6.14	.65	.18	1.01
14	.05	.89	.70	.75	.84	.83	1.12	.44	7.18	.63	.11	.14
15	.05	.92	.64	.82	.82	.84	.38	.63	6.86	.59	.10	.10
16	1.11	0.87	0.62	0.72	0.80	0.81	1.44	1.93	6.72	1.59	1.12	1.07
17	.10	.86	.87	.69	.82	.84	.39	2.07	.54	.54	.13	.06
18	.07	.83	1.06	.66	.84	.89	.47	1.94	.23	.50	.13	.04
19	.07	.79	.07	.71	.85	.90	.52	.88	5.87	.49	.13	.03
20	.06	.77	.02	.80	.90	.94	.56	.96	.67	.50	.12	0.98
21	1.05	0.83	0.98	0.72	0.88	0.97	1.74	2.54	5.59	1.49	1.16	0.98
22	.05	.89	.95	.64	.90	1.02	.80	4.53	5.47	.50	.10	1.04
23	.02	.94	.91	.66	.90	.05	.73	5.57	.38	.40	.03	.01
24	0.98	.90	.85	.70	.84	0.99	.66	.63	.06	.29	.08	0.95
25	.96	.87	.81	.80	.86	1.05	.71	.28	4.83	.20	.13	.97
26	0.96	0.94	0.77	0.75	0.89	1.02	1.74	5.57	4.80	1.21	1.06	1.00
27	.95	.94	.70	.69	.91	0.96	.74	.90	.53	.30	0.98	.06
28	.96	.80	.70	.75	.87	.91	.74	.88	.11	.29	1.03	.06
29	.92	.83	.71	.79	.85	.78	.69	.57	3.62	.23	.13	.03
30	.94	.90	.81	.79	.80	.73	.63	.07	.23	.19	-	.03
31	-	.96	-	.72	.69	-	.74	-	2.93	.17	-	.01
Mean	1.03	0.89	0.80	0.72	0.80	0.88	1.29	3.09	5.17	1.70	1.11	1.09
Max.	1.13	0.97	1.07	0.85	0.91	1.05	1.80	5.90	7.18	2.71	1.27	1.47
Min.	0.92	0.77	0.62	0.62	0.66	0.73	0.71	1.44	2.93	1.17	0.98	0.95

WATER YEAR 1971 : Max. 7.18 m. Min. 0.62 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.25	2.40	3.60	0.90	0.60	1.20	1.20	41	196	73	9.25	12
2	6.50	1.50	2.85	1.05	0.15	2.10	3.20	64	244	63	8.25	13
3	6.50	3.80	2.10	0.00	0.00	2.10	3.80	78	300	55	8.25	14
4	6.50	3.00	2.10	1.35	0.45	2.70	3.80	78	299	48	7.75	18
5	5.50	2.85	1.20	0.00	0.00	3.00	3.80	75	267	42	7.00	15
6	5.75	3.80	1.05	0.00	0.00	2.25	1.35	68	234	38	6.75	11
7	5.75	3.00	0.00	0.00	0.45	2.55	1.35	55	200	38	7.25	9.75
8	6.00	4.20	0.00	0.00	1.05	2.55	1.35	42	178	35	5.00	7.75
9	5.25	4.40	0.00	1.95	0.15	3.40	0.15	33	157	37	5.50	5.25
10	4.40	3.60	0.00	1.50	0.30	2.25	0.60	26	143	48	7.50	6.25
11	7.25	3.60	0.00	2.25	1.05	1.65	3.40	22	154	39	11	5.50
12	7.00	3.40	0.00	0.30	0.75	0.90	6.00	19	184	28	12	4.20
13	6.00	3.20	0.00	0.00	1.35	0.90	4.20	17	294	24	9.50	5.25
14	6.25	2.85	0.00	0.75	2.10	1.95	8.00	17	361	23	7.75	8.50
15	6.25	3.40	0.00	1.80	1.80	2.10	15	23	344	22	7.50	7.50
16	7.75	2.55	0.00	0.30	1.50	1.65	17	35	334	22	8.00	6.75
17	7.50	2.40	2.55	0.00	1.80	2.10	15	41	322	20	8.25	6.50
18	6.75	1.95	6.50	0.00	2.10	2.85	18	36	300	19	8.25	6.00
19	6.75	1.35	6.75	0.15	2.25	3.00	20	33	274	19	8.25	5.75
20	6.50	1.05	5.50	1.50	3.00	3.80	21	36	261	19	8.00	4.60
21	6.25	1.95	4.60	0.30	2.70	4.40	28	64	255	19	9.00	4.60
22	6.25	2.85	4.00	0.00	3.00	5.50	30	183	247	19	7.50	6.00
23	6.50	3.80	3.20	0.00	3.00	6.25	27	254	241	16	5.75	5.25
24	4.60	3.00	2.25	0.00	2.10	4.80	25	258	218	13	7.00	4.00
25	4.20	2.55	1.65	1.50	2.40	6.25	26	234	202	10	8.25	4.40
26	4.20	3.80	1.05	0.75	2.85	5.50	28	254	200	10	6.50	5.00
27	4.00	3.80	0.00	0.00	3.20	4.20	28	277	183	13	4.60	6.50
28	4.20	1.55	0.00	0.75	2.55	3.20	28	276	156	13	5.75	6.50
29	3.40	1.95	0.15	1.35	2.25	1.20	26	254	125	11	8.25	5.75
30	3.80	3.00	1.65	1.35	1.50	0.45	23	219	102	9.75	–	5.75
31	–	4.20	–	0.30	0.00	–	28	–	85	9.25	–	5.25
Total	175.80	90.75	52.75	20.10	46.40	86.75	445.20	3,112	7,060	855	223.60	231.55
Mean	5.86	2.93	1.76	0.65	1.50	2.89	14.4	104	228	27.6	7.71	7.47
Max.	8.25	4.40	6.75	2.25	3.20	6.25	30	277	361	73	12	18
Min.	3.40	1.05	0.00	.000	0.00	0.45	0.15	17	85	9.25	4.60	4.00
Runoff - mcm.	15.189	7.841	4.558	1.736	4.009	7.495	38.465	268.877	609.984	73.872	19.319	20.006

WATER YEAR 1971 : Max. 361 Min. 0.00 Mean 33.9 Annual Runoff 1,071.351 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.14	06.00	7.27	377				

KHLONG U-TAPHAO RIVER BASIN

Khlong U-Taphao River at Ban Bang Sala, Songkhla (X. 90)

<u>Location</u>: Lat. 6°-55'-39" N., Long. 100°-26'-37" E., on left bank upstream side of the bridge about 5 meters near the Pattana Tambon Street, Amphoe Hat Yai, Songkhla.

<u>Drainage Area</u>: 1,425 sq.km.

<u>Type of Gage</u>: Staff gage

<u>Zero Gage at Bottom at</u>: + 0.00 m. (A.D.)

<u>Bench Mark</u>: B.M. - H.S.

Location: B.M.1 on right bank about 46 meters, B.M.2 on left bank about 68 meters from gage site.
Elevation: B.M.1 = 5.909 m. (A.D.), B.M.2 = 7.651 m. (A.D.)

<u>Gage Reading Frequency</u>: 14-time daily readings at 06.00-18.00 and 21.00 hours.

<u>Basis of Mean Daily Gage Height</u>: Arithmetic mean of 14 readings.

<u>Period of Available Gage Records</u>: 1971 to date

<u>Rating Operation</u>:

Period of Rating: 1971-1972
Rated by Float: -
Rated by Current Meter: 1971-1972

<u>Stability of Channel Regimes</u>: Fairly stable, no shifting adjustment for flow computation.

<u>Overbank Flow Conditions</u>: No overbank flow.

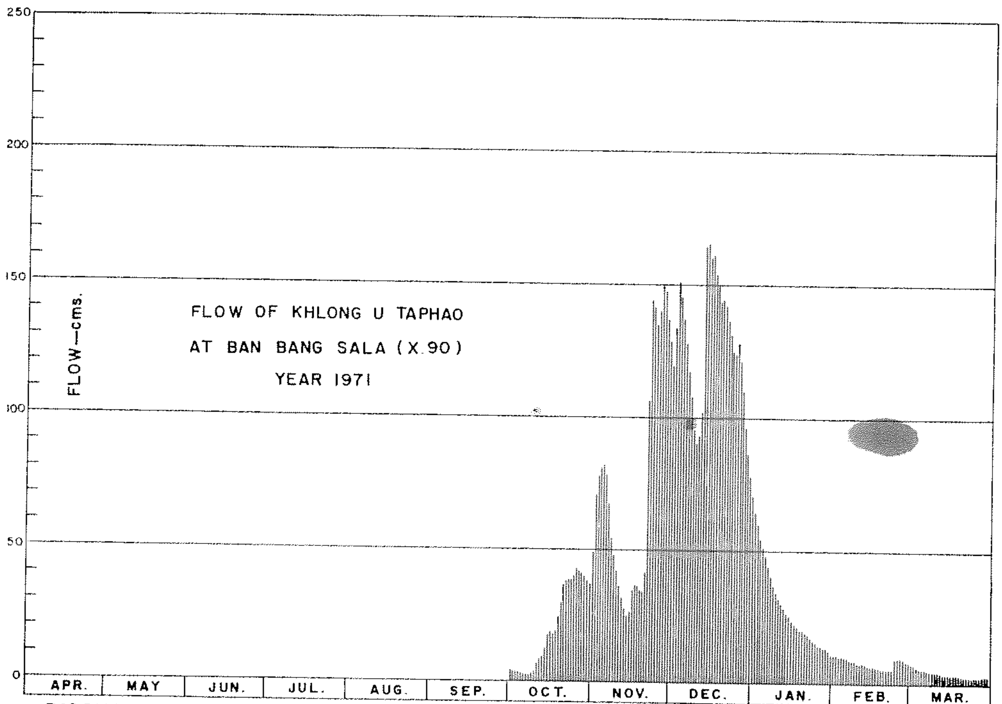
<u>General Description</u>: Records fair. Stage-discharge relationship used is defined by discharge measurements made during 1971. No upstream state diversions for irrigation. No adjustment made for virgin flow.

<u>Remarks</u>: Record began on October 1, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							1.16	3.68	6.78	4.73	1.68	1.38
2							.10	4.74	7.29	.49	.66	.33
3							.06	5.11	.93	.26	.63	.29
4							.05	.23	.70	.04	.61	.23
5							.02	.30	.42	3.86	.57	.21
6							1.00	5.06	7.11	3.68	1.55	1.20
7							0.99	4.57	6.74	.49	.52	.18
8							1.00	.12	.34	.32	.49	.15
9							.01	3.72	5.89	.15	.47	.13
10							.13	.40	.62	.03	.44	.11
11							1.42	3.14	5.78	2.91	1.43	1.11
12							.55	2.91	.99	.81	.41	.08
13							.57	.69	8.36	.72	.39	.06
14							.79	.53	.42	.63	.36	.05
15							2.13	.65	.24	.54	.34	.04
16							2.22	3.13	8.26	2.46	1.33	1.03
17							.17	.18	.08	.39	.31	.01
18							.23	.12	7.84	.32	.28	.01
19							.49	.02	.67	.27	.26	.00
20							.80	.07	.69	.24	.24	0.99
21							3.16	3.64	7.61	2.19	1.22	0.97
22							.23	7.25	.43	.13	.21	.96
23							.25	.70	.23	.08	.22	.95
24							.28	.53	6.97	.02	.56	.94
25							.38	.33	.99	1.98	.56	.93
26							3.45	7.57	7.10	1.92	1.55	0.91
27							.44	.88	6.80	.87	.54	.94
28							.38	.78	.33	.84	.50	.96
29							.32	.49	5.77	.79	.44	1.00
30							.22	.13	.33	.76	-	.01
31							.16	-	.01	.71	-	0.98
Mean							2.16	4.85	7.02	2.73	1.44	1.07
Max.							3.45	7.88	8.42	4.73	1.68	1.38
Min.							0.99	2.53	5.01	1.71	1.21	0.91

WATER YEAR 1971 : Max. 8.42 m. Min. 0.91 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							4.60	47	119	69	11	7.16
2							4.00	69	133	64	11	6.56
3							3.60	78	151	59	10	6.08
4							3.50	81	144	54	10	5.36
5							3.20	82	136	51	9.58	5.12
6							3.00	77	128	47	9.30	5.00
7							2.92	65	117	43	8.80	4.80
8							3.00	56	107	40	8.48	4.50
9							3.10	48	96	37	8.24	4.30
10							4.30	42	90	34	7.88	4.10
11							7.64	36	94	32	7.76	4.10
12							9.30	32	99	30	7.52	3.80
13							9.58	28	164	28	7.28	3.60
14							13	25	165	26	6.92	3.50
15							18	27	160	25	6.68	3.40
16							19	36	161	23	6.56	3.30
17							18	37	155	22	6.32	3.10
18							19	36	148	21	5.96	3.10
19							24	34	143	20	5.72	3.00
20							30	35	144	20	5.48	2.92
21							37	46	142	19	5.24	2.76
22							38	132	137	18	5.12	2.68
23							39	144	131	17	5.24	2.60
24							39	140	124	16	9.44	2.52
25							41	134	124	15	9.44	2.44
26							43	141	128	14	9.30	2.28
27							42	149	119	14	9.16	2.52
28							41	147	107	13	8.60	2.68
29							40	138	94	13	7.88	3.00
30							38	128	83	12		3.10
31							37	–	75	11	–	2.84
Total							637.74	2,270	3,918	907	229.98	116.22
Mean							20.6	75.7	126	29.2	7.93	3.75
Max.							43	149	165	69	11	7.16
Min.							2.92	25	75	11	5.12	2.28
Runoff - mcm.							55.101	196.128	338.515	78.365	19.870	10.041

WATER YEAR 1971 : Max. 165 Min. 2.28 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.13	21.00	8.67	173				

Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X.67)

Location: Lat. 7°-08'-35" N., Long. 100°-17'-20" E., on right bank about 3 meters upstream from bridge of Phatthalung - Songkhla highway, Amphoe Rattaphum, Songkhla.

Drainage Area: 272 sq.km.

Type of Gage: Staff gage

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

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

Location: On both bank near abutment of the bridge.
Elevation: BM1 on right bank + 3.415 m. (A.D.), BM2 on left bank + 3.307 m. (A.D.).

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-70, 72.
Rated by Float: -
Rated by Current Meter: 1967-70, 72.

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

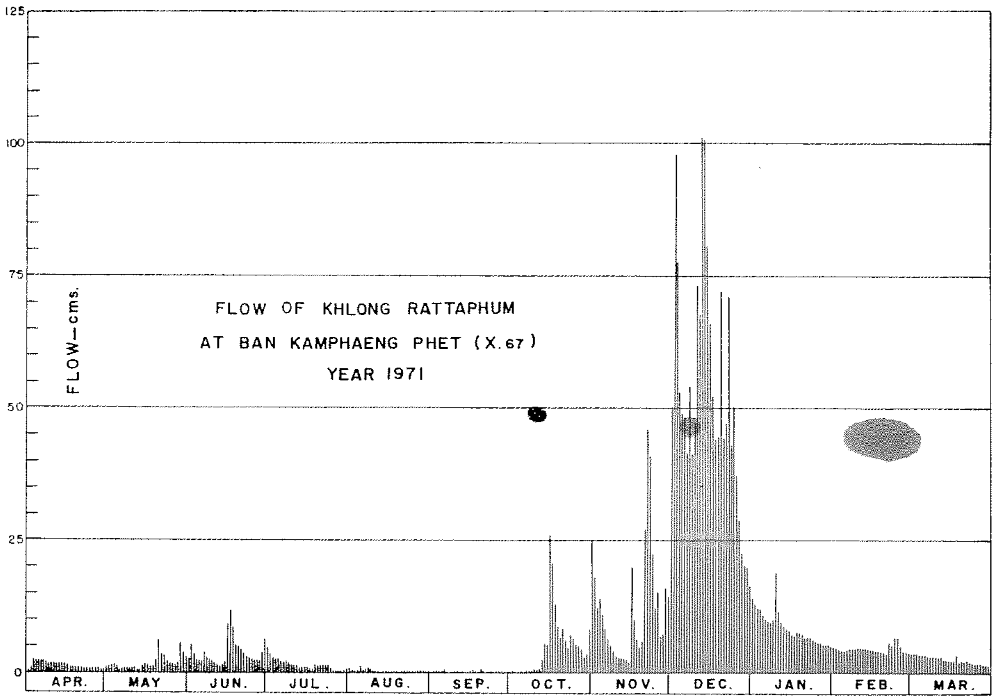
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented is made by discharge measurements during 1970. Flow regulated by Rattaphum weir for irrigation of about 10,688 hectares. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	-0.16	0.04	0.18	0.38	-0.04	-0.21	-0.25	1.15	1.84	1.05	0.42	0.30
2	-0.01	.08	.47	.27	-0.10	-0.23	-0.26	.23	3.29	0.98	.41	.32
3	0.19	.08	.30	.22	-0.14	-0.11	-0.26	0.97	.75	.92	.39	.31
4	.18	.06	.20	.20	-0.09	-0.23	-0.27	1.01	2.52	.89	.39	.29
5	.17	.04	.16	.17	0.04	-0.16	-0.25	0.83	.45	.84	.38	.30
6	0.16	0.09	0.14	0.15	-0.09	-0.08	-0.23	0.67	2.41	0.81	0.39	0.29
7	.15	-0.01	.31	.14	-0.05	-0.17	-0.23	.54	.13	.78	.40	.24
8	.14	-0.02	.22	.17	0.02	-0.18	-0.23	.45	.60	.76	.40	.23
9	.14	-0.01	.16	.11	-0.08	-0.25	-0.13	.34	.15	.84	.40	.23
10	.13	-0.02	.15	.03	-0.12	-0.23	-0.06	.25	.30	1.28	.41	.24
11	0.13	-0.02	0.12	0.07	-0.16	-0.27	-0.06	0.24	3.15	0.86	0.41	0.23
12	.12	-0.03	.05	.06	-0.20	-0.25	-0.05	.23	2.98	.76	.40	.22
13	.11	0.06	.03	.01	-0.22	-0.23	0.18	.21	3.81	.73	.40	.18
14	.11	.04	.11	.04	-0.16	-0.25	.49	.19	.79	.68	.38	.17
15	.09	.05	.19	.04	-0.21	-0.22	.40	1.23	.26	.64	.38	.17
16	0.04	0.11	0.74	0.02	-0.22	-0.18	1.60	1.33	2.93	0.61	0.35	0.16
17	.04	.03	.92	-0.01	-0.21	-0.07	.35	0.76	.47	.59	.36	.17
18	.02	.01	.60	-0.04	-0.17	-0.17	0.97	.54	.25	.63	.36	.18
19	.02	.05	.42	0.09	-0.11	-0.18	.73	.39	.17	.63	.34	.14
20	.01	.32	.43	.07	-0.21	-0.02	.55	.58	3.13	.61	.31	.16
21	0.01	0.52	0.36	0.07	-0.21	-0.19	0.68	1.60	2.27	0.56	0.31	0.15
22	-0.01	.29	.28	.08	-0.10	-0.23	.50	2.35	.35	.57	.48	.17
23	-0.01	.26	.22	.06	-0.11	-0.23	.38	.17	3.11	.56	.43	.13
24	-0.02	.16	.20	.09	-0.11	-0.22	.60	.26	2.23	.52	.56	.11
25	-0.02	.12	.18	-0.21	-0.15	-0.23	.55	0.92	.48	.50	.53	.11
26	-0.01	0.08	0.16	-0.16	-0.12	-0.26	0.43	1.09	1.90	0.51	0.40	0.13
27	-0.02	.06	.20	-0.13	-0.09	-0.26	.42	0.55	.61	.50	.34	.12
28	-0.04	.12	.17	-0.14	-0.08	-0.23	.38	.64	.43	.48	.32	.06
29	-0.07	.49	.38	-0.08	-0.12	-0.22	.22	1.12	.31	.47	.31	.06
30	-0.07	.38	.55	-0.07	-0.18	-0.25	.26	0.95	.31	.46	-	.06
31	-	.25	-	-0.02	-0.15	-	.54	-	.15	.44	-	.05
Mean	0.06	0.11	0.29	0.05	-0.13	-0.20	0.27	0.84	2.46	0.69	0.39	0.18
Max.	0.19	0.52	0.92	0.38	0.04	-0.02	1.60	2.35	3.81	1.28	0.56	0.32
Min.	-0.16	-0.09	0.03	-0.21	-0.22	-0.27	-0.27	0.19	1.15	0.44	0.31	0.05

WATER YEAR 1971 : Max. 3.81 m. Min. -0.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.22	1.18	3.32	4.38	0.70	0.09	0.05	25	32	14	4.84	3.50
2	0.85	1.46	5.44	3.20	0.40	0.07	0.04	18	79	13	4.72	3.72
3	2.41	1.46	3.50	2.70	0.28	0.37	0.04	12	98	12	4.49	3.61
4	2.32	1.32	2.50	2.50	0.45	0.07	0.03	14	51	12	4.49	3.40
5	2.23	1.18	2.14	2.23	1.18	0.22	0.05	11	*49	11	4.38	3.50
6	2.14	0.45	1.96	2.05	0.45	0.50	0.07	8,08	*48	10	4.49	3.40
7	2.05	0.85	3.61	1.96	0.65	0.19	0.07	6.32	*40	9.78	4.60	2.90
8	1.96	0.80	2.70	2.23	1.04	0.16	0.07	5.20	*54	9.46	4.60	2.80
9	1.96	0.85	2.14	1.69	0.50	0.05	0.31	3.94	*40	10	4.60	2.80
10	1.87	0.80	2.05	1.11	0.34	0.07	0.60	3.00	*45	19	4.72	2.90
11	1.87	0.80	1.78	1.39	0.22	0.03	0.60	2.90	73	11	4.72	2.80
12	1.78	0.75	1.25	1.32	0.10	0.05	0.65	2.80	67	9.46	4.60	2.70
13	1.69	0.32	1.11	0.97	0.08	0.07	2.32	2.60	101	8.98	4.60	2.32
14	1.69	1.18	1.69	1.18	0.22	0.05	5.68	2.41	100	8.22	4.38	2.23
15	1.53	1.25	2.41	1.18	0.09	0.08	4.60	1.80	77	7.66	4.38	2.33
16	1.18	1.69	9.14	1.04	0.08	0.16	26	20	65	7.24	4.05	2.14
17	1.18	1.11	12	0.85	0.09	0.55	20	9.46	50	6.97	4.16	2.23
18	1.04	0.97	7.10	0.70	0.19	0.19	13	6.32	43	7.52	4.16	3.32
19	1.04	1.25	4.84	1.53	0.37	0.16	8,98	4.49	41	7.52	3.94	1.96
20	0.97	3.72	4.96	1.39	0.09	0.80	6.45	6.84	72	7.24	3.61	2.14
21	0.97	6.06	4.16	1.39	0.09	0.13	8.22	26	44	6.58	3.61	2.05
22	0.85	3.40	3.30	1.46	0.40	0.07	5.80	46	46	6.71	5.56	2.23
23	0.85	3.10	2.70	1.32	0.37	0.07	4.38	41	71	6.58	4.96	1.87
24	0.80	2.14	2.50	1.53	0.37	0.08	7.10	18	43	6.06	6.58	1.69
25	0.80	1.78	2.32	0.09	0.25	0.07	6.45	12	50	5.80	6.19	1.69
26	0.85	1.46	2.14	0.22	0.34	0.04	4.96	15	34	5.93	4.60	1.87
27	0.80	1.32	2.50	0.31	0.45	0.04	4.84	6.45	27	5.80	3.94	1.78
28	0.70	1.78	2.23	0.28	0.50	0.07	4.38	7.66	22	5.56	3.72	1.32
29	0.55	5.68	4.38	0.50	0.34	0.08	2.70	16	20	5.44	3.61	1.32
30	0.55	4.38	6.45	0.55	0.16	0.05	3.10	13	20	5.32		1.32
31	–	3.00	–	0.80	0.25	–	6.32		16	5.08	–	1.25
Total	39.70	58.49	107.32	44.05	11.04	4.63	147.86	383.47	1,618	266.91	131.30	75.09
Mean	1.32	1.89	3.58	1.42	0.356	0.154	4.77	12.8	52.2	8.61	4.53	2.42
Max.	2.41	6.06	12	4.38	1.18	0.80	26	46	101	19	6.58	3.72
Min.	0.22	0.45	1.11	0.09	0.08	0.03	0.03	2.41	16	5.08	3.61	1.25
Runoff - mcm.	3.430	5.053	9.272	3.806	0.954	0.400	12.775	33.132	139.795	23.061	11.344	6.488

WATER YEAR 1971 : Max. 101 Min. 0.03 Mean 7.89 Annual Runoff 249.510 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.13	09.10	3.82	101				

KHLONG PRU PHO RIVER BASIN

Khlong Pru Pho River at Ban Pru Pho, Songkhla (X.69)

Location: Lat. 7°–11'–25" N., Long. 100°–13'–26" E., on right bank upstream side of the bridge on Phatthalung – Hat Yai' highway, at Ban Pru Pho, Amphoe Rattaphum, Songkhla.

Drainage Area: 88 sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S.

Location: on left bank about 300 meters from the bridge.
Elevation: + 4.229 m. (A.D.)

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

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

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967–1972
Rated by Float: –
Rated by Current Meter: 1967–1972

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

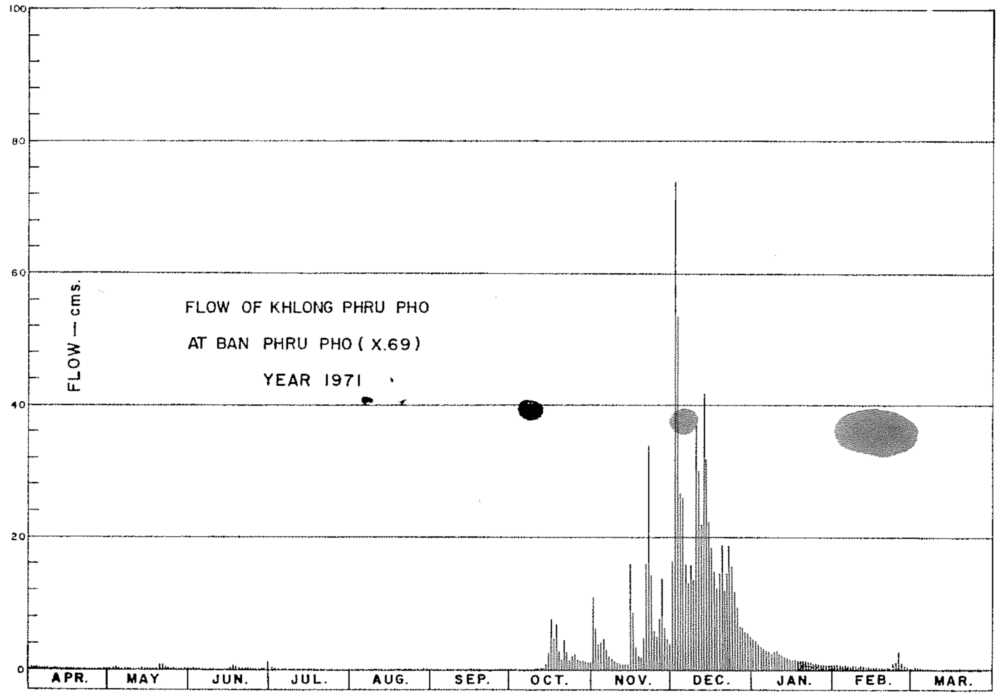
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage–discharge relationship used is defined by discharge measurements made during 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.65	0.57	0.58	0.69	0.52	0.59	0.50	1.85	2.25	1.27	0.77	0.66
2	.65	.60	.66	.63	.56	.49	.62	.39	3.73	.22	.77	.69
3	.64	.62	.60	.59	.54	.49	.63	.19	.09	.18	.76	.68
4	.63	.60	.58	.58	.52	.52	.57	.25	2.70	.15	.75	.66
5	.63	.58	.57	.57	.50	.49	.53	.31	.69	.12	.74	.66
6	0.62	0.57	0.57	0.55	0.50	0.62	0.51	1.11	2.19	1.09	0.73	0.65
7	.62	.57	.56	.55	.54	.59	.52	0.98	1.97	.06	.73	.63
8	.62	.56	.55	.55	.51	.53	.53	.91	2.17	.05	.72	.63
9	.61	.56	.55	.55	.50	.51	.57	.88	1.94	.12	.71	.62
10	.61	.56	.54	.54	.51	0.49	.64	.84	3.08	.10	.71	.62
11	0.61	0.56	0.54	0.54	0.49	0.49	0.64	0.81	2.76	1.03	0.70	0.62
12	.61	.56	.53	.53	.50	.48	.68	.79	.45	0.99	.70	.62
13	.60	.60	.53	.53	.49	.50	.68	.77	3.23	.97	.70	.61
14	.60	.61	.53	.53	.49	.51	.89	.75	2.65	.94	.69	.61
15	.59	.64	.56	.52	.49	.49	1.10	2.18	.40	.93	.69	.60
16	0.59	0.64	0.70	0.52	0.52	0.51	1.58	1.43	2.28	0.92	0.68	0.59
17	.59	.60	.75	.51	.51	.51	.29	.14	.10	.91	.67	.59
18	.58	.58	.69	.51	.52	.51	.51	.02	1.90	.89	.67	.59
19	.58	.60	.65	.54	.53	.51	.04	0.96	2.13	.89	.67	.57
20	.58	.73	.64	.53	.55	.56	0.89	1.32	.35	.88	.66	.57
21	0.58	0.77	0.62	0.52	0.53	0.60	1.29	2.26	1.89	0.88	0.66	0.56
22	.57	.70	.60	.52	.55	.59	.01	.98	2.33	.86	.67	.55
23	.57	.66	.57	.52	.55	.54	0.85	1.85	.23	.84	.83	.55
24	.57	.62	.56	.51	.53	.53	.99	.45	.01	.83	.87	.56
25	.57	.61	.56	.50	.55	.52	1.03	.32	1.81	.82	1.08	.55
26	0.56	0.59	0.53	0.50	0.54	0.51	0.88	1.62	1.65	0.81	0.80	0.55
27	.56	.58	.55	.50	.52	.51	.88	2.04	.54	.81	.74	.55
28	.58	.58	.59	.49	.53	.51	.88	1.45	.46	.80	.69	.55
29	.60	.63	.69	.52	.52	.50	.86	.30	.39	.79	.67	.55
30	.58	.65	.84	.52	.50	.50	.80	.21	.38	.78	–	.55
31	–	.61	–	.51	.50	–	.86	–	.31	.77	–	.54
Mean	0.60	0.61	0.60	0.54	0.52	0.52	0.85	1.35	2.23	0.96	0.73	0.60
Max.	0.65	0.77	0.84	0.69	0.56	0.62	1.58	2.98	3.73	1.27	1.08	0.69
Min.	0.56	0.56	0.53	0.49	0.49	0.48	0.50	0.75	1.31	0.77	0.66	0.54

WATER YEAR 1971 : Max. 3.73 m. Min. 0.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.34	0.14	0.16	0.46	0.04	0.00	0.00	11	17	4.53	0.85	0.37
2	0.34	0.20	0.37	0.29	0.16	0.00	0.26	5.70	74	4.08	0.85	0.46
3	0.31	0.26	0.20	0.18	0.08	0.00	0.29	3.81	38	3.72	0.80	0.43
4	0.29	0.20	0.16	0.16	0.04	0.04	0.14	4.35	27	3.45	0.75	0.37
5	0.29	0.16	0.14	0.14	0.00	0.00	0.06	4.90	26	3.18	0.70	0.37
6	0.26	0.14	0.14	0.10	0.00	0.26	0.02	3.09	16	2.92	0.65	0.34
7	0.26	0.14	0.12	0.10	0.08	0.18	0.04	2.08	13	2.68	0.65	0.29
8	0.26	0.12	0.10	0.10	0.02	0.06	0.06	1.66	16	2.60	0.60	0.29
9	0.23	0.12	0.10	0.10	0.00	0.02	0.14	1.48	13	3.18	0.55	0.26
10	0.23	0.12	0.08	0.08	0.02	0.00	0.31	1.24	37	3.00	0.55	0.26
11	0.23	0.12	0.08	0.08	0.00	0.00	0.31	1.06	28	2.44	0.50	C.26
12	0.23	0.12	0.06	0.06	0.00	0.00	0.43	0.95	21	2.14	0.50	0.26
13	0.20	0.20	0.06	0.06	0.00	0.00	0.43	0.85	42	2.02	0.50	0.23
14	0.20	0.23	0.06	0.06	0.00	0.02	1.54	0.75	26	1.84	0.46	0.23
15	0.18	0.31	0.12	0.04	0.00	0.00	3.00	16	20	1.78	0.46	0.20
16	0.18	0.31	0.50	0.04	0.04	0.02	7.66	6.10	18	1.72	0.43	0.18
17	0.18	0.20	0.75	0.02	0.02	0.02	4.71	3.36	15	1.66	0.40	0.18
18	0.16	0.16	0.46	0.02	0.04	0.02	6.92	2.36	12	1.54	0.40	0.18
19	0.16	0.20	0.34	0.08	0.06	0.02	2.52	1.96	15	1.54	0.40	0.14
20	0.16	0.65	0.31	0.06	0.10	0.12	1.54	5.00	19	1.48	0.37	0.14
21	0.16	0.85	0.26	0.04	0.06	0.20	4.47	18	12	1.48	0.37	0.12
22	0.14	0.50	0.26	0.04	0.10	0.18	2.28	34	19	1.36	.40	0.10
23	0.14	0.37	0.14	0.04	0.10	0.08	1.30	11	17	1.24	1.18	0.10
24	0.14	0.26	0.12	0.02	0.06	0.06	2.14	6.30	14	1.18	1.42	0.12
25	0.14	0.23	0.12	0.00	0.10	0.04	2.44	5.00	11	1.12	2.84	0.10
26	0.14	0.18	0.10	0.00	0.08	0.02*	1.48	8.24	8.60	1.06	1.00	0.10
27	0.14	0.16	0.10	0.00	0.04	0.02	1.48	14	7.28	1.06	0.70	0.10
28	0.16	0.16	0.18	0.00	0.06	0.02	1.48	6.30	6.40	1.00	0.46	0.10
29	0.20	0.29	0.46	0.04	0.04	0.00	1.35	4.80	5.70	0.95	0.40	0.10
30	0.16	0.34	1.24	0.04	0.00	0.00	1.00	3.99	5.60	0.90		0.10
31		0.23		0.02	0.00		1.36		4.90	0.85		0.08
Total	6.21	7.67	7.29	2.47	1.34	1.40	51.17	189.33	604.48	63.70	20.14	6.56
Mean	0.21	0.25	0.24	0.080	0.043	0.047	1.65	6.31	19.5	2.05	0.69	0.21
Max.	0.34	0.85	1.24	0.46	0.16	0.26	7.66	34	74	4.53	2.84	0.46
Min.	0.14	0.12	0.06	0.00	0.00	0.00	0.00	0.75	4.90	0.85	0.37	0.08
Runoff - BCM.	0.536	0.663	0.629	0.213	0.116	0.121	4.421	16.358	52.227	5.504	1.740	0.567

WATER YEAR 1971 : Max. 74 Min. 0.00 Mean 2.63 Annual Runoff 83.096 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.2	18.00	3.95	93				

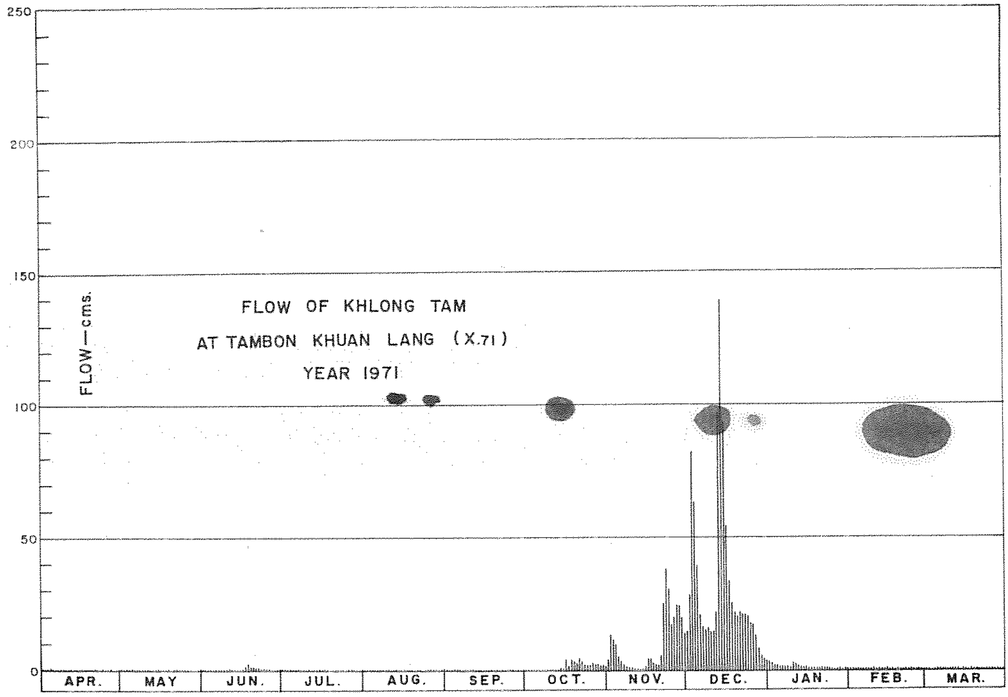
Khlong Tam at Ban Khuan Lang, Songkhla (X.71)

Location:	Lat. 6°-59'-33" N., Long. 100°-25'-57" E., on right bank downstream side of bridge of Phet Kasem highway at Ban Khuan Lang, Amphoe Hat Yai, Songkhla.
Drainage Area:	127 sq.km.
Type of Gage:	Staff gage
Zero Gage at Bottom at:	+ 0.00 m. (A.D.)
Bench Mark:	B.M. - H.S.
Location:	on left bank about 12 meters from highway bridge.
Elevation:	+ 6.569 m. (A.D.)
Gage Reading Frequency:	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height:	Arithmetic mean of 5 readings.
Period of Available Gage Records:	1967 to date
Rating Operation:	
Period of Rating:	1967, 1969-71
Rated by Float:	-
Rated by Current Meter:	1967, 1969-71
Stability of Channel Regimes:	Rather unstable because of backwater effect, 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 1971. No State diversions for irrigation above gage site except those built by the local residents. No adjustment made for virgin flow.
Remarks:	* Mean hourly gage height and discharge for period December 11-19.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.58	1.36	1.52	1.69	1.32	1.42	1.26	3.14	4.61	2.58	1.64	1.54
2	.56	.30	.54	.65	.32	.39	.28	4.41	5.93	.39	.64	.53
3	.57	.38	.58	.54	.32	.44	.27	.13	6.89	.31	.66	.52
4	.56	.48	.48	.51	.29	.43	.27	3.77	.46	.20	.59	.53
5	.55	.45	.45	.53	.29	.41	.28	.10	5.52	.15	.65	.52
6	1.47	1.39	1.43	1.50	1.28	1.41	1.29	2.63	5.04	2.11	1.59	1.55
7	.44	.39	.43	.49	.28	.41	.27	.30	4.69	.08	.57	.45
8	.45	.36	.42	.49	.28	.41	.27	.05	.61	.02	.57	.44
9	.56	.41	.39	.46	.30	.40	.27	1.93	.68	.08	.59	.46
10	.54	.46	.40	.46	.30	.39	.27	.81	.56	.57	.52	.44
11	1.51	1.43	1.39	1.46	1.31	1.37	1.29	1.73	*4.66	2.36	1.53	1.44
12	.49	.41	.36	.38	.30	.31	.33	.65	*5.42	.22	.57	.42
13	.49	.41	.36	.35	.31	.30	.32	.64	*6.96	.04	.50	.41
14	.45	.35	.32	.34	.32	.32	.76	.64	*7.26	.02	.54	.40
15	.47	.45	.42	.36	.32	.31	.91	2.34	*6.80	.01	.53	.39
16	1.46	1.54	1.76	1.36	1.33	1.30	2.82	3.06	*6.31	1.99	1.54	1.38
17	.42	.48	2.40	.35	.38	.29	.03	2.93	*5.96	.92	.54	.39
18	.48	.46	.42	.34	.32	.28	.82	.55	* .50	.88	.52	.39
19	.45	.48	.18	.33	.32	.28	.70	.26	* .19	.87	.52	.36
20	.35	.50	1.99	.31	.30	.28	.59	.43	.18	.92	.52	.37
21	1.33	1.60	1.93	1.32	1.29	1.29	2.98	3.46	5.33	1.92	1.52	1.34
22	.32	.58	.70	.34	.29	.33	.71	5.68	.19	.93	.52	.34
23	.36	.58	.72	.36	.27	.28	.32	6.18	.20	.79	.57	.33
24	.43	.58	.62	.35	.27	.29	.26	5.57	.10	.78	.68	.33
25	.44	.51	.61	.36	.31	.28	.20	4.83	4.84	.69	.65	.32
26	1.39	1.46	1.56	1.33	1.47	1.29	2.61	5.16	4.86	1.72	1.64	1.32
27	.45	.35	.48	.30	.49	.27	.40	.47	.29	.73	.57	.31
28	.41	.35	.52	.30	.49	.27	.54	.44	3.66	.69	.54	.28
29	.41	.59	.72	.30	.45	.26	.29	.05	.19	.61	.54	.26
30	.41	.65	.68	.28	.43	.26	.18	4.40	2.93	.64	-	.26
31	-	.64	-	.29	.44	-	.26	-	.73	.61	-	.28
Mean	1.46	1.46	1.63	1.40	1.33	1.33	1.94	3.42	5.15	1.99	1.57	1.40
	1.58	1.65	2.42	1.69	1.49	1.44	2.98	6.18	7.26	2.58	1.68	1.55
	1.32	1.30	1.32	1.28	1.27	1.26	1.26	1.64	2.73	1.61	1.50	1.26

WATER YEAR 1971 : Max. 7.26 m. Min. 1.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1971 TO MARCH 31, 1972

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.06	0.22	0.39	0.02	0.12	0.00	5.10	15	2.72	0.34	0.24
2	0.26	0.00	0.24	0.35	0.02	0.09	0.00	13	32	2.07	0.34	0.23
3	0.27	0.08	0.28	0.24	0.02	0.14	0.00	11	82	1.83	0.36	0.22
4	0.26	0.18	0.18	0.21	0.00	0.13	0.00	8.52	48	1.50	0.29	0.23
5	0.25	0.15	0.15	0.23	0.00	0.11	0.00	4.90	25	1.35	0.35	0.22
6	0.17	0.09	0.13	0.20	0.00	0.11	0.00	2.92	19	1.23	0.29	0.25
7	0.14	0.09	0.13	0.19	0.00	0.11	0.00	1.80	16	1.16	0.27	0.15
8	0.15	0.06	0.12	0.19	0.00	0.11	0.00	1.10	15	1.04	0.27	0.14
9	0.26	0.11	0.09	0.16	0.00	0.10	0.00	0.86	16	1.16	0.29	0.16
10	0.24	0.16	0.10	0.16	0.00	0.09	0.00	0.62	14	2.68	0.22	0.14
11	0.21	0.13	0.09	0.16	0.01	0.07	0.00	0.46	*15	1.98	0.23	0.14
12	0.19	0.11	0.06	0.08	0.00	0.01	0.03	0.35	*24	1.56	0.27	0.12
13	0.19	0.11	0.06	0.05	0.01	0.00	0.02	0.34	*99	1.08	0.20	0.14
14	0.15	0.05	0.02	0.04	0.02	0.02	0.52	0.34	*139	1.04	0.24	0.10
15	0.17	0.15	0.12	0.06	0.02	0.01	0.82	1.92	*74	1.02	0.23	0.09
16	0.16	0.24	0.52	0.06	0.03	0.00	3.68	4.70	*42	0.98	0.24	0.08
17	0.12	0.18	2.10	0.05	0.08	0.00	1.06	4.12	*33	0.84	0.24	0.09
18	0.18	0.16	2.16	0.04	0.02	0.00	3.68	2.60	*25	0.76	0.22	0.09
19	0.15	0.18	1.44	0.03	0.02	0.00	3.20	1.68	*21	0.74	0.22	0.06
20	0.05	0.20	0.98	0.01	0.00	0.00	2.76	2.19	21	0.84	0.22	0.07
21	0.03	0.30	0.86	0.02	0.00	0.00	4.32	6.70	22	0.84	0.22	0.04
22	0.02	0.28	0.40	0.04	0.00	0.03	3.24	28	21	0.86	0.22	0.04
23	0.06	0.28	0.44	0.06	0.00	0.00	1.86	38	21	0.58	0.27	0.03
24	0.13	0.28	0.32	0.05	0.00	0.00	1.68	28	20	0.56	0.38	0.03
25	0.14	0.21	0.31	0.06	0.01	0.00	1.50	17	17	0.39	0.35	0.02
26	0.09	0.16	0.26	0.03	0.17	0.00	2.84	21	17	0.44	0.34	0.02
27	0.15	0.05	0.18	0.00	0.19	0.00	2.10	25	12	0.46	0.27	0.01
28	0.11	0.05	0.22	0.00	0.19	0.00	2.56	24	7.86	0.39	0.24	0.00
29	0.11	0.29	0.44	0.00	0.15	0.00	1.77	19	5.35	0.31	0.24	0.00
30	0.11	0.35	0.38	0.00	0.13	0.00	1.44	13	4.12	0.34	–	0.00
31	–	0.34	–	0.00	0.14	–	1.68	–	3.32	0.31	–	0.00
Total	4.80	5.08	13.00	3.16	1.25	1.25	40.76	288.22	925.65	33.06	7.86	3.15
Mean	0.16	0.16	0.43	0.10	0.040	0.042	1.31	9.61	29.8	1.07	0.27	0.10
Max.	0.28	0.35	2.16	0.39	0.19	0.14	4.32	38	139	2.72	0.38	0.25
Min.	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.34	3.32	0.31	0.20	0.00
Runoff - mcm.	0.415	0.439	1.123	0.273	0.108	0.108	3.522	24.902	79.976	2.856	0.679	0.272

WATER YEAR 1971 : Max. 139 Min. 0.00 Mean 3.63 Annual Runoff 114.673 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 14	06.00	7.38	156				