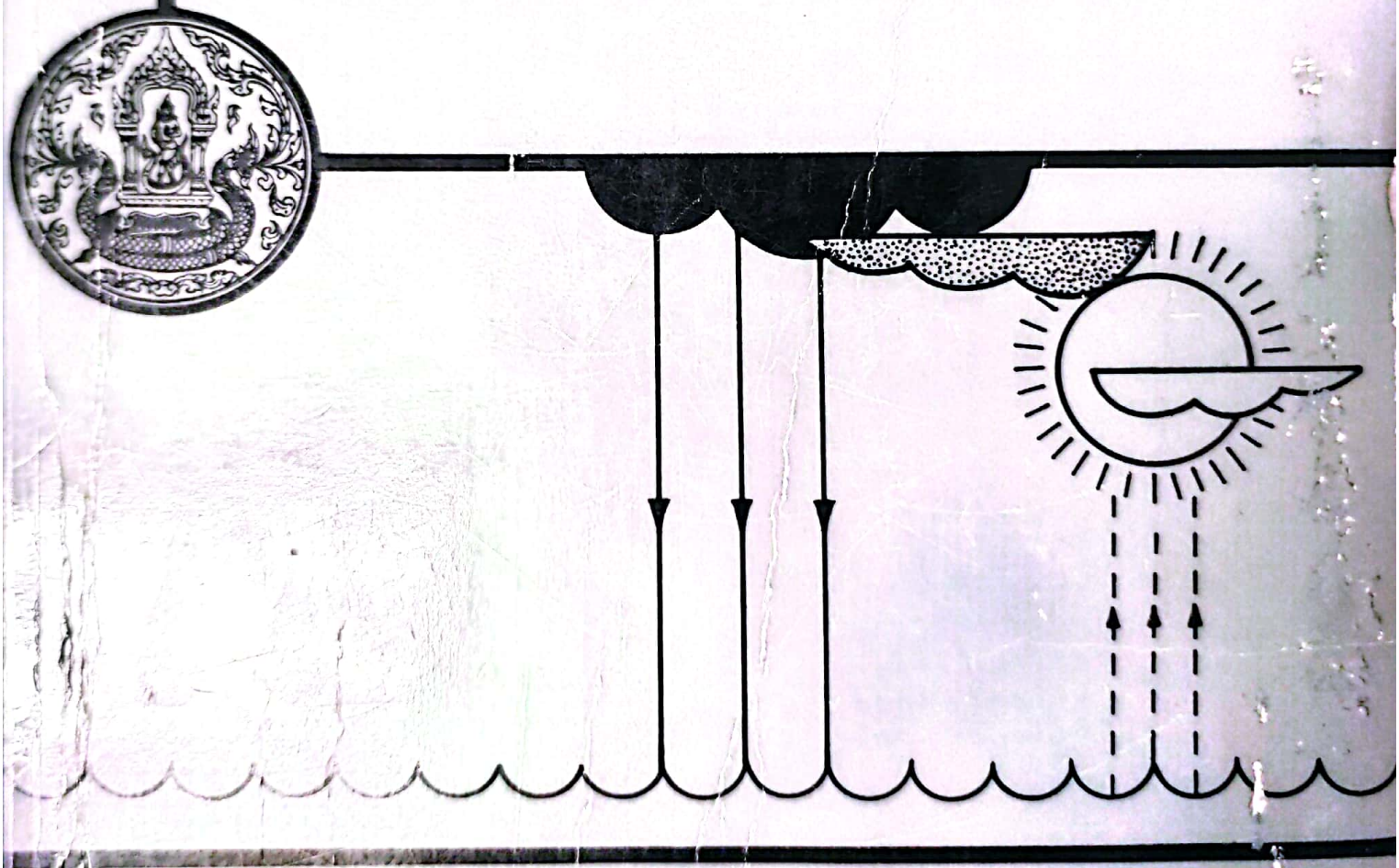
THAILAND

HYDROLOGICAL YEARBOOK

WATER YEAR 1972

VOLUME 15



ROYAL IRRIGATION DEPARTMENT
HYDROLOGY DIVISION
BANGKOK

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Hydrology No. 396 / 81

Thailand

Hydrological Yearbook

Water Year 1972

Volume 15

Royal Irrigation Department
Hydrology Division
Bangkok

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FOREWORD

The programme of yearbook publications was initiated in 1966 Great efforts have been made in editing as well as the setting up of standard for yearbook publication. The previously 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 14 volumes of yearbooks presenting streamflow data as early as 1912 up to 1971 totalling 2,284 station-years of record had been published.

This Volume 15 which is the fifteenth issue of the series, was prepared by the Data Processing Section. It presents records, during the 1972 water year, of stage and discharge of 102 streams at 122 currently calibrating sites and at 62 previously or subsequently calibrating ones.

Some remarks are made under each station description.

Hydrology Division
October 1979

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ACKNOWLEDGEMENT

The editorial staff of this hydrological yearbook publication feels particularly indebted to Mr. Boonchob Kanchanalak, former Senior Engineer Hydrologist of the Royal Irrigation Department, who had initiated and directed the editing work of ye arbook 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 Service Section, Program Coordination and Budget Division, and his efficient staff whose kind assistance and coordinated effort have contributed to the success of this Volume 15 issue.

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LOCATION MAP OF HYDROLOGIC OBSERVATION STATION IN 1972 WATER YEAR.

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ILLUSTRATION OF STREAM GAGING ACTIVITIES



Fig. 1 Typical vertical staff gage

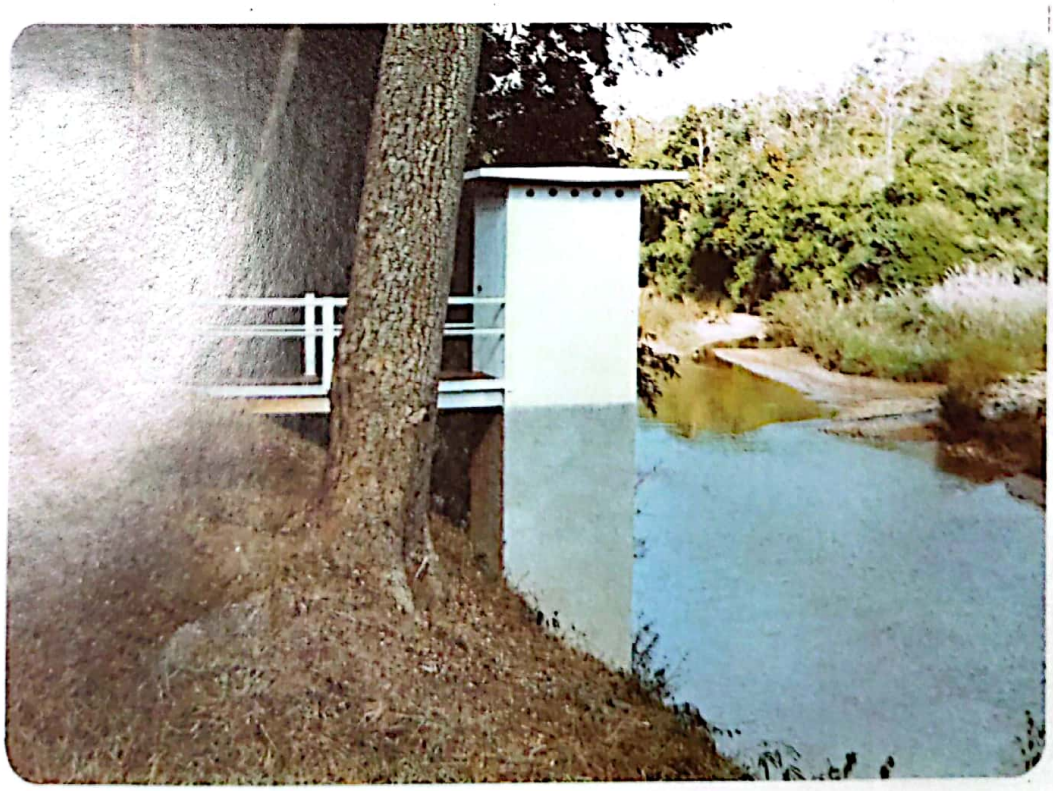

Fig. 2 Typical shelter for water level reccorder. (Float Type)

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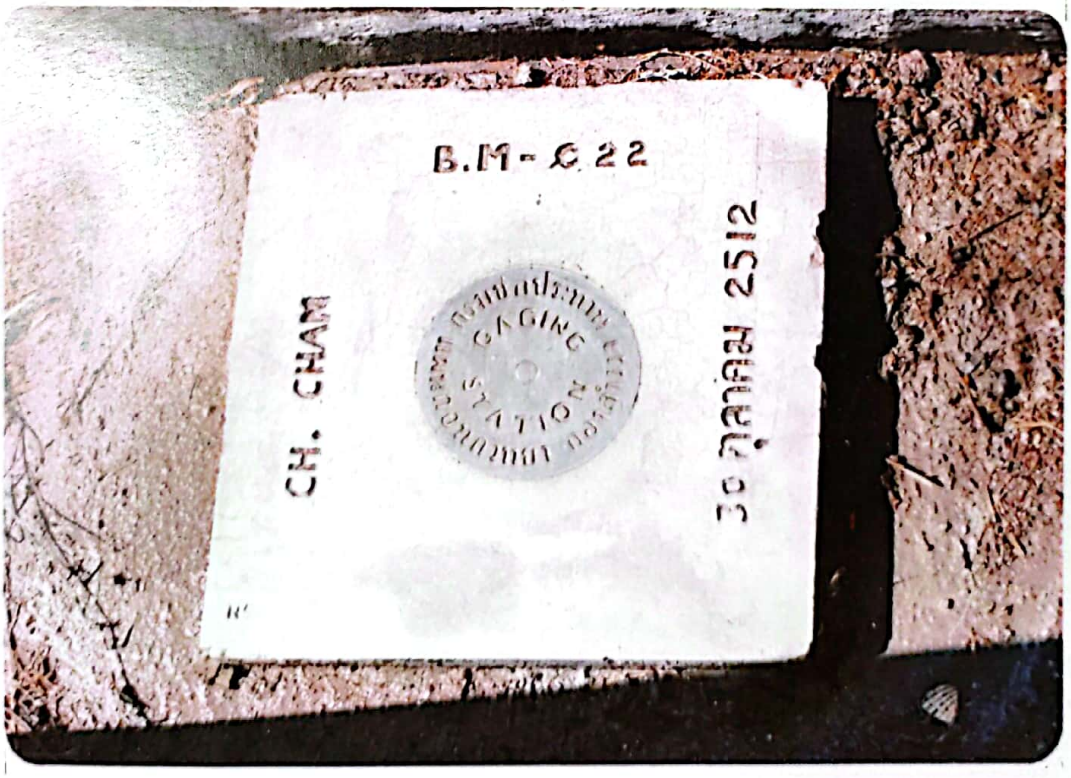

Fig. 3 Standard bench mark.

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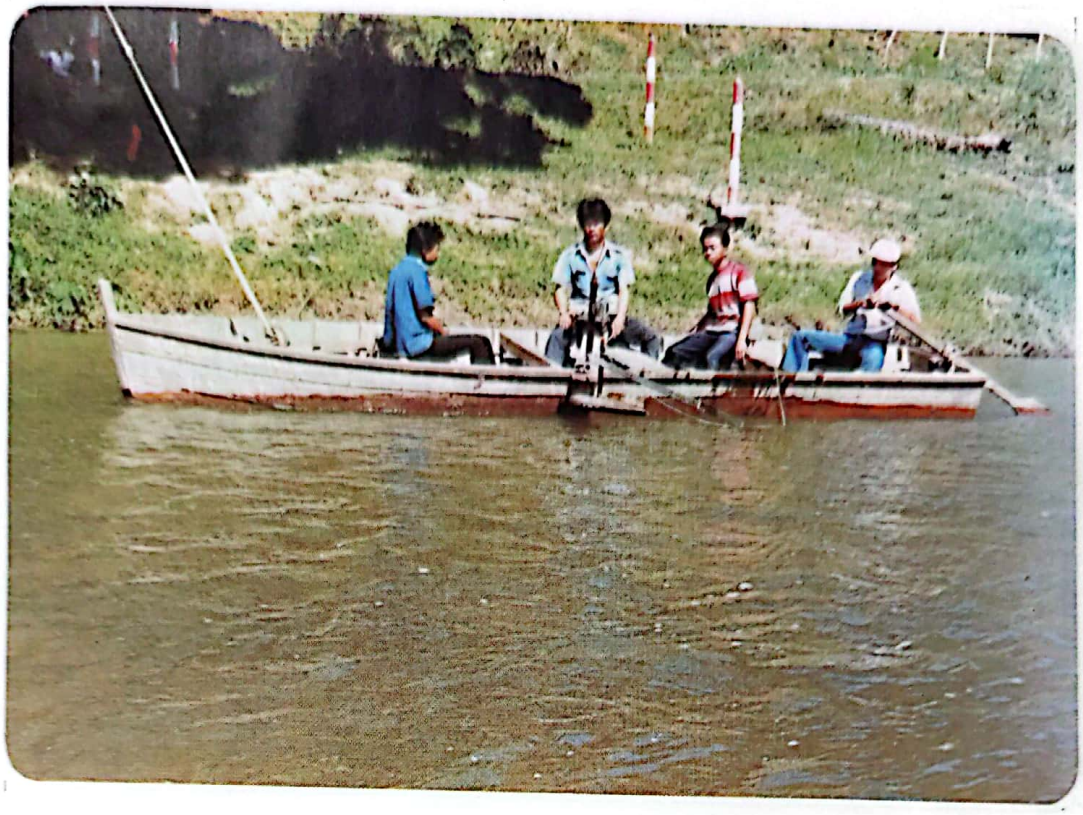

Fig. 4 Close – up of rating operation.

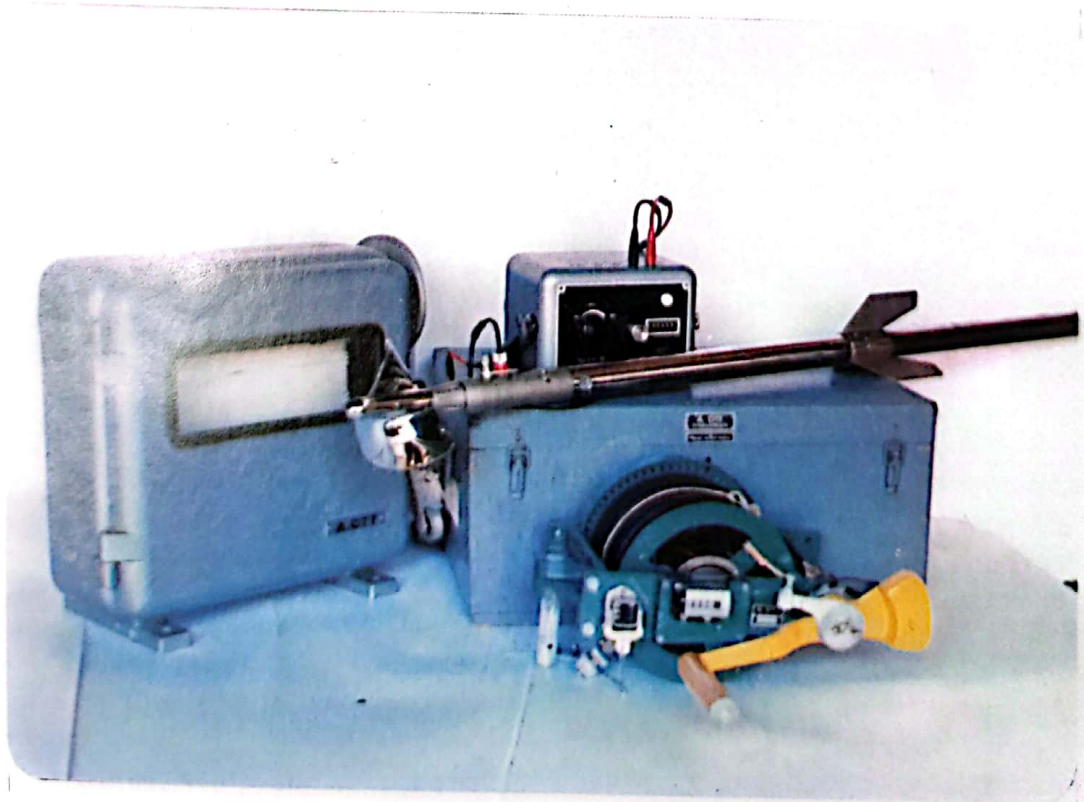

Fig. 5 Standard hydrologic equipment.

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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.

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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

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Volume	Water Years	No. of Station-Years	Date of Issuance
6	1960-1962	213	October 1973
7	1963-1964	182	July 1969
8	1965	113	May 1967
9	1966	129	June 1975
10	1967	172	September 1976
11	1968	187	September 1976
12	1969	182	March 1979
13	1970	182	March 1979
14	1971	182	June 1979
15	1972	184	October 1979

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

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STANDARD OF STREAMFLOW DATA PROCUREMENT

* * * * * * * *

Network design

The location of stream gaging stations is primarily based upon the urgent need at variou damsites which is accessible. By the time of expansion of the network at later date, the area o 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 wit 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.

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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

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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.

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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:-

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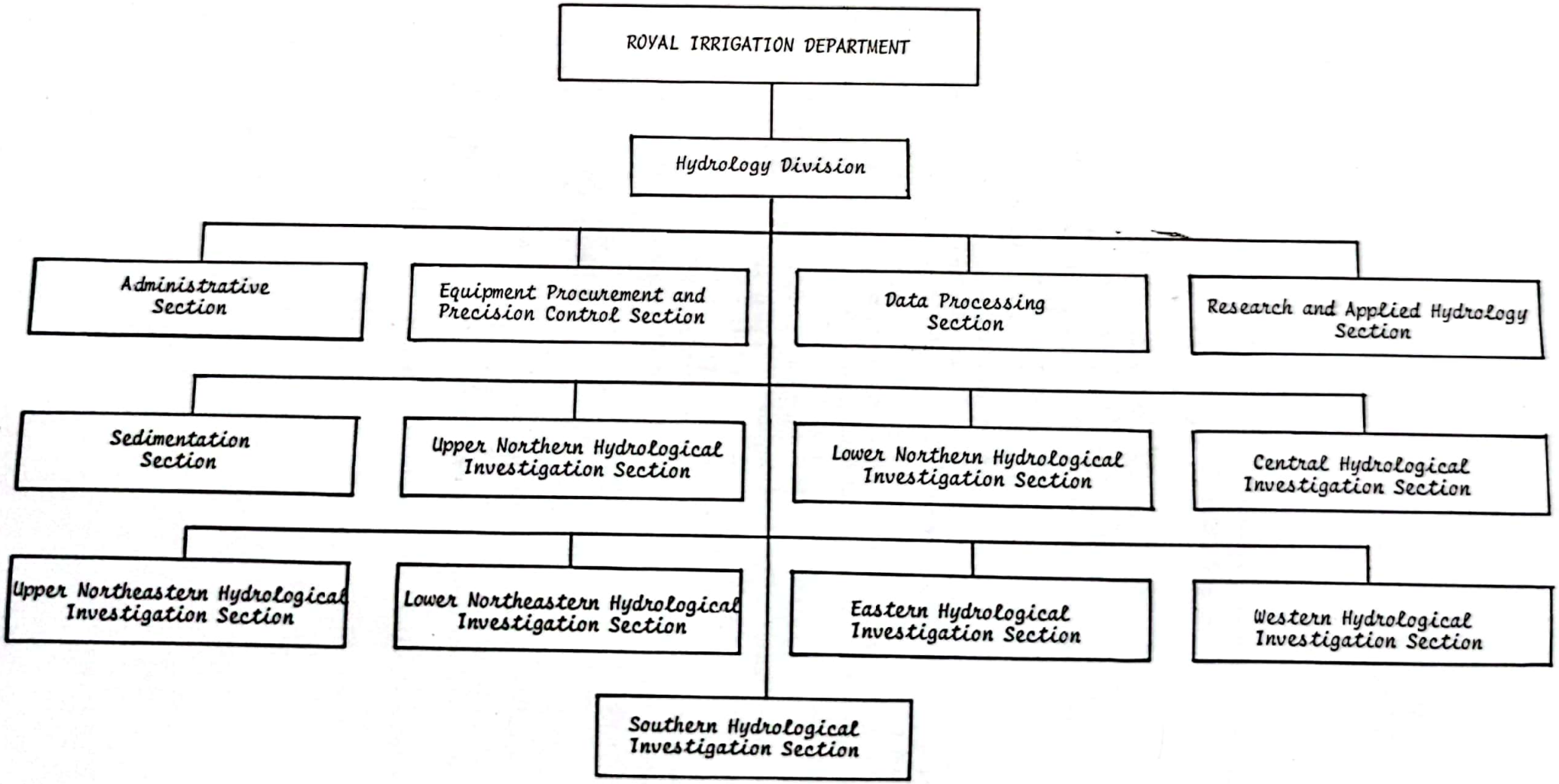

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PARTICIPATION IN STREAM GAGING WORKS

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

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

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

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

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

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

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

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

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

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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	million gallons per day (mgd)

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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 Yea 1972

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PING RIVER BASIN

Mae Ping River at Nawarat Bridge, Chiang Mai (P1)

Location: Lat. 18°-47'-09" N., Long. 99°-00'-29" E., on left bank about 100 meter 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 November 1972 - March 1973. Recording from April - October 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.

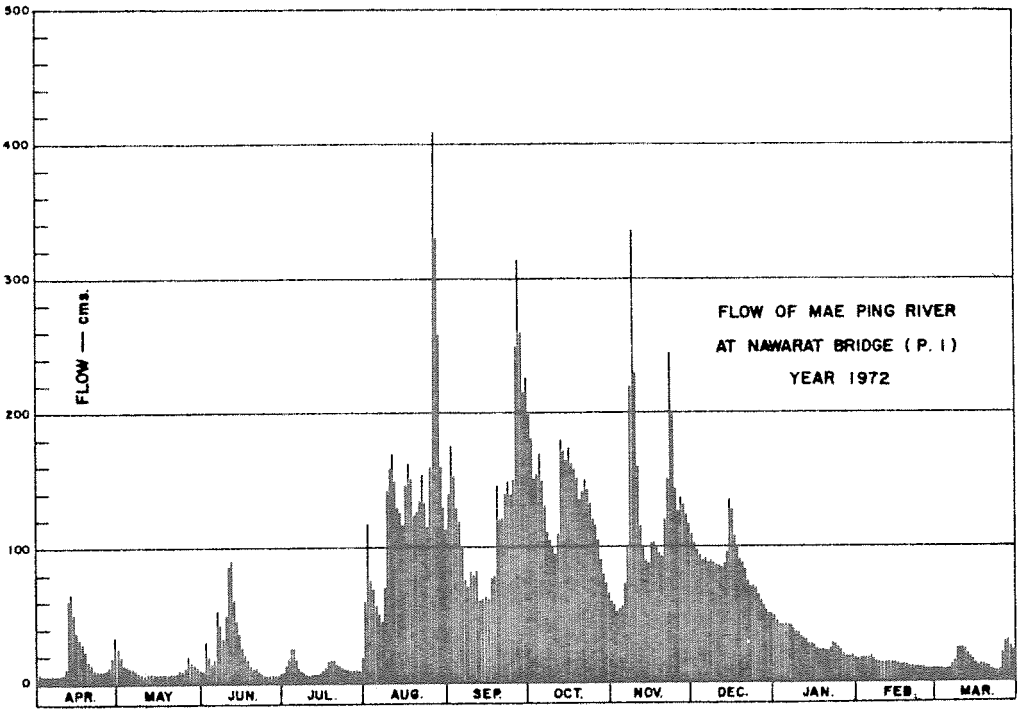
Stability of Channel Regimes: Fairly stable, because of backwater effect. No shifting adjustment but periodic curves are used for flow computation.

General Description: Records good except those for periods on October 30 - November 4, which are poor. Stage-discharge relation defined by 32 discharge measurement made in 1972. Upstream State diversions for irrigation of about 11,200 hectares at Mae Faek Weir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	300.84	301.35	301.01	300.95	301.77	302.10	302.41		301.86	301.57	301.23	301.04
2	.79	.26	.43	301.14	.90	.26	.35		.84	.55	.24	.04
3	.78	.14	.35	.27	.72	.11	.11		.82	.53	.25	.03
4	.77	.10	.16	.36	.68	301.99	.13		.81	.53	.26	.02
5	.77	.07	.22	.36	.65	.92	.23		.79	.53	.25	.00
6	300.79	301.07	301.30	301.23	301.61	301.83	302.08	301.68	301.80	301.53	301.27	301.00
7	.80	.05	.61	.13	.55	.73	301.97	.68	.78	.52	.29	.08
8	.80	300.98	.49	.03	.69	.70	.87	302.51	.79	.52	.21	.19
9	.81	.94	.44	300.93	302.07	.75	.85	303.14	.78	.50	.20	.36
10	.82	.91	.60	.85	.14	.74	.82	302.49	.77	.50	.19	.38
11	301.04	300.90	301.77	300.79	302.23	301.75	301.81	302.08	301.77	301.49	301.18	301.37
12	.64	.87	.79	.81	.10	.69	.85	301.88	.76	.46	.22	.35
13	.67	.90	.62	.87	301.98	.64	302.30	.84	.77	.43	.21	.30
14	.59	.91	.53	.92	.96	.65	.25	.79	.81	.41	.20	.25
15	.50	.89	.47	.93	.89	.66	.20	.78	302.02	.43	.20	.22
16	301.45	300.93	301.10	301.03	302.11	301.65	302.27	301.84	301.97	301.40	301.17	301.15
17	.44	.86	.31	.10	19	.73	.18	.84	.85	.37	.15	.09
18	.37	.86	.19	.22	.12	.74	.16	.82	.82	.35	.13	.13
19	.28	.87	.09	.26	301.94	302.08	.11	.81	.79	.35	.12	.14
20	.20	.92	.04	.25	.96	301.92	.02	.80	.78	.34	.10	.10
21	301.17	300.93	301.11	301.16	302.01	301.92	302.05	301.89	301.75	301.33	301.08	301.08
22	.07	.94	.07	.12	.14	302.04	.11	302.07	.73	.36	.08	300.99
23	.05	301.04	300.94	.06	.02	.10	.07	.66	.70	.41	.08	.96
24	.01	.01	.84	.07	301.88	.04	.00	.44	.70	.41	.08	.96
25	.01	.05	.79	.06	302.13	.11	301.92	.06	.69	.38	.07	.98
26	301.00	301.09	300.76	301.04	302.99	302.78	301.90	301.97	301.67	301.35	301.06	301.29
27	.07	.30	.75	.01	303.51	303.03	.83	302.03	.65	.30	.05	.42
28	.25	.21	.79	.03	302.93	302.75	.79	301.99	.63	.29	.05	.43
29	.46	.17	.76	.04	.30	.50	.74	.95	.60	.27	-	.39
30	.44	.11	.84	.07	.00	.56		.89	.59	.29	-	.34
31	-	.00	-	.23	301.88	-		-	.58	.25	-	.31
Mean	301.12	301.02	301.21	301.07	302.06	302.01			301.76	301.42	301.16	
Max.	301.67	301.35	301.79	301.36	303.51	303.03	302.41	303.14	302.02	301.57	301.29	
Min.	300.77	300.86	300.75	300.79	301.55	301.64	301.68	301.60	301.58	301.25	301.05	

WATER YEAR 1972 : Max. 303.51 m. Min. 300.75 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.40	24	9.30	8.00	87	149	200	* 61	110	49	17	10
2	5.90	18	31	13	118	175	189	* 57	104	46	17	10
3	5.80	13	24	19	76	151	151	* 53	99	43	18	9.90
4	5.70	12	14	25	68	131	154	* 55	96	43	18	9.60
5	5.70	11	16	25	59	121	170	* 57	91	43	18	9.00
6	5.90	11	20	17	55	102	146	68	93	43	19	9.00
7	6.00	10	55	13	46	78	128	115	89	41	20	11
8	6.00	8.60	37	9.90	70	71	113	218	91	41	15	15
9	6.10	7.80	32	7.60	144	82	107	335	89	38	15	25
10	6.20	7.20	53	6.50	155	80	99	214	87	38	15	26
11	10	7.00	87	5.90	170	82	96	146	87	37	14	25
12	61	6.70	91	6.10	149	70	107	115	85	34	16	24
13	66	7.00	57	6.70	130	61	181	104	87	31	15	20
14	52	7.20	43	7.40	127	62	173	91	96	29	15	18
15	38	6.90	35	7.60	117	64	165	89	136	31	15	16
16	33	7.60	27	9.90	151	62	176	104	128	27	14	13
17	32	6.60	21	12	163	78	162	104	107	25	13	12
18	25	6.60	15	16	152	80	159	99	99	24	13	13
19	19	6.70	12	18	124	146	151	96	91	24	13	13
20	15	7.40	10	17	127	121	136	93	89	23	12	12
21	14	7.60	12	14	135	121	141	117	82	23	11	11
22	11	7.80	11	13	155	139	151	144	78	25	11	8.80
23	10	10	7.80	11	136	149	144	245	71	29	11	8.20
24	9.30	9.30	6.40	11	115	139	133	205	71	29	11	8.20
25	9.30	10	5.90	11	154	151	121	143	70	26	11	8.60
26	9.00	12	5.60	10	306	266	118	128	66	24	11	20
27	11	20	5.50	9.30	408	314	102	138	62	20	10	30
28	18	15	5.90	9.90	295	261	91	131	59	20	10	31
29	34	14	5.60	10	181	216	80	125	53	19	–	27
30	32	12	6.40	11	133	227	* 76	117	52	20	–	23
31	–	9.00	–	17	115	–	* 68	–	50	18	–	21
Total	568.30	319.00	761.40	377.80	4,421	3,949	4,188	3,767	2,668	963	398	497.30
Mean	18.9	10.3	25.4	12.2	143	132	135	126	86.1	31.1	14.2	16.0
Max.	66	24	91	25	408	314	200	335	136	49	20	31
Min.	5.70	6.60	5.50	5.90	46	61	68	53	50	18	10	8.20
Runoff - mcm.	49.101	27.562	65.785	32.642	381.974	341.194	361.843	325.469	230.515	83.203	34.387	42.967

WATER YEAR 1972 : Max. 408 Min. 5.50 Mean 62.7 Annual Runoff 1,976.642 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.27	17.00	303.59	425				

PING RIVER BASIN

Mae Ping River at Ban Tha Khae, Tak (P2A)

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.

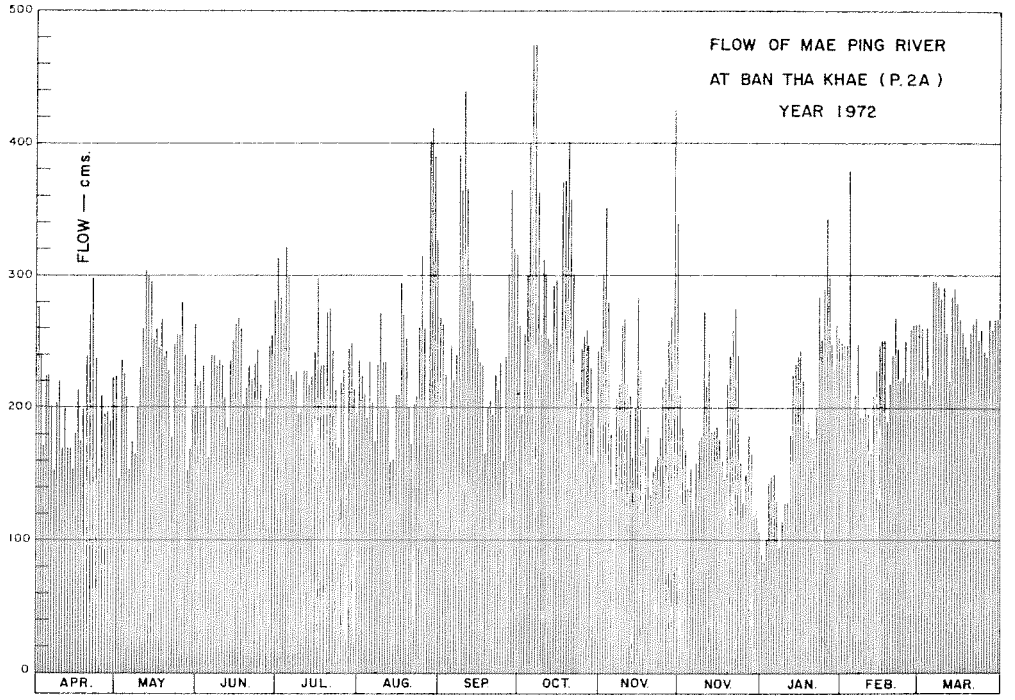
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 48 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir since 1964. Upstream State diversions for irrigation of about 40,300 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	105.51	105.18	105.36	105.60	105.41	105.49	105.50	105.41	105.34	104.95	105.44	105.48
2	.42	.15	.37	.53	.38	.48	.30	.59	.27	.93	.44	.47
3	.23	.41	.40	.48	.36	.38	.46	.69	.22	105.02	.44	.37
4	.38	.37	.31	.62	.29	.30	.56	.51	.12	.14	.75	.47
5	.38	.33	.20	.60	.41	.44	.82	.25	.17	.15	.31	.36
6	105.30	105.17	105.42	105.38	105.37	105.37	105.95	105.12	105.06	105.16	105.36	105.56
7	.17	.24	.42	.37	.24	.42	.95	.33	.18	.06	.44	.56
8	.32	.21	.40	.39	.40	.78	.75	.36	.24	104.97	.29	.55
9	.37	.34	.41	.30	.50	.72	.46	.48	.25	105.08	.29	.53
10	.22	.41	.40	.31	.41	.88	.60	.49	.50	.09	.31	.55
11	105.31	105.48	105.33	105.39	105.41	105.75	105.58	105.36	105.35	105.09	105.29	105.47
12	.22	.58	.27	.39	.31	.59	.45	.34	.42	.24	.21	.37
13	.22	.57	.41	.36	.49	.53	.44	.20	.26	.38	.34	.53
14	.17	.56	.45	.37	.17	.46	.55	.29	.26	.40	.38	.55
15	.26	.45	.48	.44	.34	.43	.56	.53	.27	.42	.44	.52
16	105.35	105.47	105.49	105.57	105.34	105.41	105.41	105.41	105.25	105.43	105.45	105.49
17	.24	.43	.47	.43	.55	.40	.65	.23	.19	.38	.45	.47
18	.33	.49	.39	.40	.51	.21	.73	.25	.15	.26	.28	.44
19	.39	.42	.32	.41	.44	.31	.73	.27	.36	.28	.36	.42
20	.47	.43	.40	.50	.31	.33	.80	.11	.42	.25	.44	.46
21	105.56	105.39	105.37	105.51	105.23	105.30	105.69	105.17	105.47	105.25	105.49	105.48
22	.52	.25	.38	.44	.32	.38	.50	.18	.51	.30	.41	.49
23	.32	.44	.43	.38	.34	.35	.31	.21	.41	.53	.37	.45
24	.17	.46	.38	.22	.52	.40	.26	.26	.19	.45	.38	.47
25	.34	.46	.33	.36	.61	105.19	.43	.36	.09	.54	.45	.43
26	105.30	105.52	105.29	105.39	105.46	105.46	105.46	105.38	105.17	105.67	105.37	105.31
27	.30	.42	.35	.19	.31	.60	.47	.45	.25	.56	.47	.49
28	.28	.17	.44	.43	.80	.72	.41	.73	.21	.44	.48	.47
29	.38	.25	.46	.44	.82	.62	.33	.85	.06	.40	-	.49
30	.38	.38	.33	.36	.75	.61	.19	.69	.07	.48	-	.49
31	-	.48	-	.30	.65	-	.43	-	.01	.45	-	.60
Mean	105.33	105.38	105.38	105.41	105.37	105.48	105.54	105.38	105.25	105.28	105.40	105.47
Max.	105.56	105.58	105.53	105.62	105.82	105.88	105.95	105.85	105.51	105.67	105.75	105.60
Min.	105.17	105.15	105.20	105.19	105.17	105.19	105.19	105.11	105.01	104.93	105.21	105.31

WATER YEAR 1972 : Max. 105.95 m. Min. 104.93 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276	157	218	312	236	268	272	248	210	90	248	264
2	240	147	221	284	225	264	196	308	186	85	248	260
3	173	236	232	264	217	225	256	352	170	109	248	221
4	225	221	200	321	193	196	296	276	138	144	379	260
5	225	207	163	312	236	248	412	179	154	147	200	218
6	196	154	240	225	221	221	475	138	120	151	218	296
7	154	176	240	221	176	240	475	207	157	120	248	296
8	203	166	232	228	232	392	379	218	176	95	193	292
9	221	210	236	196	272	365	256	264	179	126	193	284
10	170	236	232	200	236	440	312	268	272	129	200	292
11	200	264	207	228	236	379	304	218	214	129	193	260
12	170	304	186	228	200	308	252	210	240	176	166	221
13	170	300	236	218	160	284	248	163	183	225	210	284
14	154	296	252	221	160	256	292	193	183	232	225	292
15	183	252	264	248	210	244	296	284	186	240	248	280
16	214	260	268	300	210	236	236	236	179	244	252	268
17	176	244	260	244	292	232	334	173	160	225	252	260
18	207	268	228	232	276	166	370	179	147	183	189	248
19	228	240	203	236	248	200	370	186	218	189	218	240
20	260	244	232	272	200	207	402	135	240	179	248	256
21	296	228	221	276	173	196	352	154	260	179	268	264
22	280	179	225	248	203	225	272	157	276	196	236	268
23	203	248	244	224	210	214	200	166	236	284	221	252
24	154	256	225	170	280	232	183	183	160	252	225	260
25	210	256	207	218	316	160	244	218	129	288	252	244
26	196	280	193	228	256	256	256	225	154	343	221	200
27	196	240	214	160	200	312	260	252	179	296	260	268
28	189	154	248	244	402	365	236	370	166	248	264	260
29	224	179	256	248	412	321	207	426	120	232	–	268
30	224	225	284	218	379	316	160	352	123	263	–	268
31	–	264	–	196	334	–	244	–	106	252	–	312
Total	6,217	7,091	6,867	7,420	7,601	7,968	9,047	6,938	5,621	6,051	6,523	81.56
Mean	207	229	229	239	245	266	292	231	181	195	232	263
Max.	296	304	284	321	412	440	475	426	276	343	379	312
Min.	154	147	163	160	160	160	160	135	106	85	166	200
Runoff – MCM.	537.149	612.662	593.309	641.088	656.726	688.435	781.661	599.443	485.654	522.806	563.587	704.678

WATER YEAR 1972 : Max. 475 Min. 85 Mean 234 Annual Runoff 7,387.198 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7	11.00	106.09	545				

PING RIVER BASIN

Mae Taeng River at Mae Taeng Bridge, Chiang Mai (P4A)

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. – M.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.

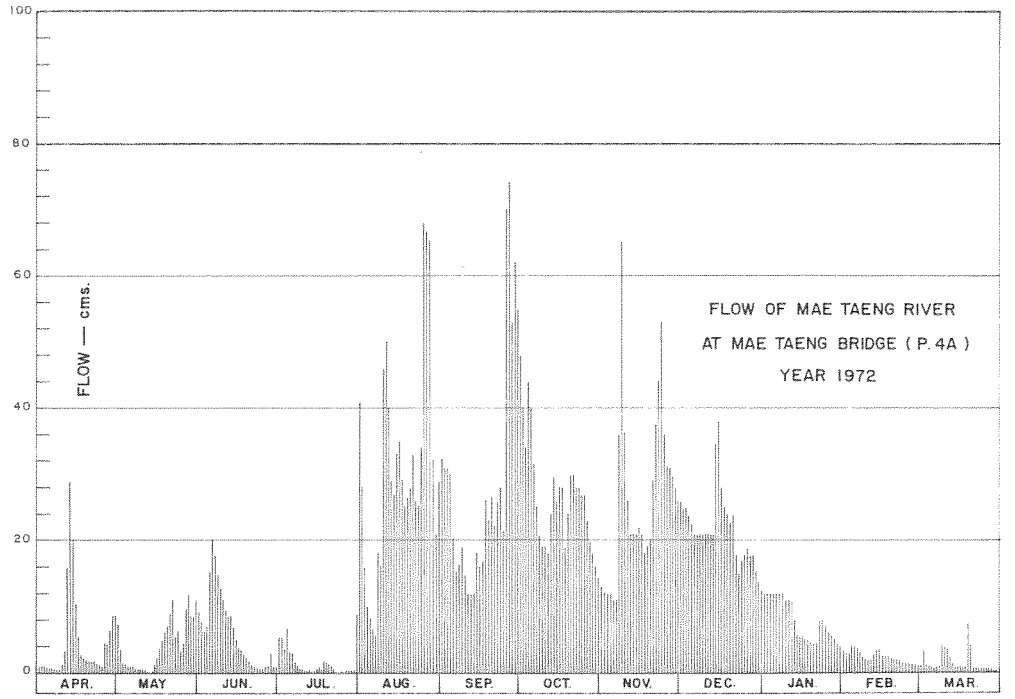
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage discharge relation defined by 34 discharge measurements made in 1972. Upstream State diversions for irrigation of about 23,700 hectares at Mae Taeng Weir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.37	334.68	334.71	334.57	335.41	335.23	335.55	334.81	335.10	334.79	334.50	334.37
2	.37	.54	.65	.57	334.96	.22	.42	.79	.09	.79	.49	.57
3	.36	.42	.61	.51	.79	.22	.28	.78	.08	.78	.48	.40
4	.36	.39	.63	.62	.71	.20	.46	.77	.06	.78	.53	.38
5	.35	.37	.86	.49	.67	.10	.41	.76	.04	.78	.53	.37
6	334.35	334.37	334.97	334.48	334.63	334.92	335.21	334.76	335.01	334.77	334.52	334.36
7	.34	.36	.93	.41	.59	.85	.09	335.10	334.99	.77	.50	.36
8	.34	.34	.85	.39	.94	.92	.03	.83	335.01	.77	.46	.38
9	.35	.34	.80	.33	.88	.95	334.96	.41	334.99	.77	.44	.53
10	.39	.34	.75	.33	335.50	.86	.96	.23	.99	.76	.43	.51
11	334.51	334.33	334.71	334.32	335.57	334.78	334.94	335.08	334.99	334.76	334.44	334.51
12	335.12	.33	.68	.33	.36	.77	.93	.01	335.01	.74	.44	.48
13	.18	.31	.68	.33	.18	.77	335.17	.01	.00	.73	.50	.41
14	.03	.32	.61	.32	.12	.94	.10	.01	.28	.59	.51	.34
15	334.75	.37	.57	.33	.25	.88	.14	.03	.35	.58	.46	.34
16	334.59	334.43	334.52	334.36	335.30	334.91	335.16	335.01	335.21	334.57	334.46	334.34
17	.47	.51	.50	.34	.18	.91	.00	334.94	.10	.57	.45	.34
18	.43	.56	.47	.42	.08	335.10	334.95	.95	.08	.56	.45	.36
19	.42	.61	.45	.41	.10	.05	335.06	.97	.06	.55	.44	.64
20	.41	.63	.41	.40	.14	.10	.19	335.06	.05	.54	.44	.48
21	334.41	334.69	334.39	334.37	335.26	335.02	335.20	335.24	335.07	334.54	334.43	334.35
22	.41	.76	.36	.32	.11	.08	.16	.40	334.92	.54	.43	.35
23	.40	.58	.35	.31	.09	.16	.15	.63	.86	.66	.40	.35
24	.39	.61	.35	.32	.19	.05	.12	.42	.91	.66	.40	.34
25	.37	.49	.34	.32	.89	.01	.12	.26	.94	.64	.39	.34
26	334.54	334.54	334.37	334.32	335.86	335.91	335.08	335.21	334.95	334.61	334.40	334.34
27	.54	.70	.38	.33	.83	.99	334.98	.21	.94	.59	.40	.33
28	.61	.79	.47	.33	.46	.62	.96	.19	.93	.58	.39	.33
29	.69	.68	.37	.33	.12	.78	.91	.14	.89	.55	–	.31
30	.69	.68	.36	.33	.00	.63	.86	.11	.84	.53	–	.31
31	–	.74	–	.65	.14	–	.83	–	.82	.51	–	.31
Mean	334.52	334.51	334.57	334.39	335.17	335.13	335.11	335.10	335.02	334.66	334.45	334.39
Max.	335.18	334.79	334.97	334.65	335.89	335.99	335.55	335.83	335.35	334.79	334.53	334.64
Min.	334.34	334.31	334.34	334.31	334.59	334.77	334.83	334.76	334.82	334.51	334.39	334.31

WATER YEAR 1972 : Max. 335.99 m. Min. 334.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.98	8.56	9.55	5.25	41	32	49	13	26	12	3.50	0.98
2	0.98	4.50	7.60	5.25	19	31	42	12	25	12	3.29	5.25
3	0.84	1.82	6.32	3.75	12	31	34	12	25	12	3.08	1.40
4	0.84	1.26	6.94	6.64	9.55	30	44	12	24	12	4.25	1.12
5	0.70	0.98	15	3.29	8.24	26	41	11	23	12	4.25	0.98
6	0.70	0.98	20	3.08	6.90	17	31	11	21	12	4.00	0.84
7	0.56	0.84	18	1.61	5.75	15	25	26	21	12	3.50	0.84
8	0.56	0.56	15	1.26	18	17	22	65	21	12	2.66	1.12
9	0.70	0.56	13	0.42	16	19	19	41	21	12	2.24	4.25
10	1.20	0.56	11	0.42	46	15	19	32	21	11	2.03	3.75
11	3.75	0.42	9.55	0.28	50	12	18	25	21	11	2.24	3.75
12	27	0.42	8.56	0.42	39	12	18	21	21	11	2.24	3.08
13	29	0.14	8.56	0.42	29	12	29	21	21	10	3.50	1.61
14	22	0.28	6.32	0.28	27	18	26	21	34	5.75	3.75	0.56
15	11	0.98	5.25	0.42	33	16	28	22	38	5.50	2.66	0.56
16	5.75	2.03	4.00	0.84	35	17	28	21	31	5.25	2.66	0.56
17	2.87	3.75	3.50	0.56	29	17	21	18	26	5.25	2.45	0.56
18	2.33	5.00	2.87	1.82	25	26	19	19	25	5.00	2.45	0.84
19	2.03	6.32	2.45	1.61	26	23	24	20	24	4.75	2.24	7.28
20	1.61	6.96	1.61	1.40	28	26	30	24	23	4.50	2.24	3.08
21	1.61	8.88	1.26	0.98	33	22	30	32	24	4.50	2.03	0.70
22	1.61	11	0.84	0.28	26	25	28	41	17	4.50	2.03	0.70
23	1.40	5.50	0.70	0.14	25	28	28	53	15	7.92	1.40	0.70
24	1.26	6.32	0.70	0.28	30	23	27	42	17	7.92	1.40	0.56
25	0.98	3.29	0.56	0.28	68	21	27	33	18	7.28	1.26	0.56
26	4.50	4.50	0.98	0.28	67	70	25	31	19	6.32	1.40	0.56
27	4.50	9.20	1.12	0.42	65	74	20	31	18	5.75	1.40	0.42
28	6.32	12	2.87	0.42	44	53	19	30	18	5.50	1.26	0.42
29	8.88	8.56	1.12	0.42	27	62	17	28	16	4.75	–	0.14
30	8.88	8.56	0.84	0.42	21	53	15	26	14	4.25	–	0.14
31	–	11	–	7.60	28	–	14	–	13	3.75	–	0.14
Total	155.40	135.73	186.07	50.54	937.44	843.00	817	794	681	249.44	71.41	47.45
Mean	5.18	4.38	6.20	1.63	30.2	28.1	26.3	26.5	22.0	8.05	2.55	1.53
Max.	29	12	20	7.60	68	74	49	65	38	12	4.25	7.28
Min.	0.56	0.14	0.56	0.14	5.75	12	14	11	13	3.75	1.26	0.14
Runoff – mcm.	13.426	11.727	16.076	4.367	80.995	72.835	70.589	68.602	58.838	21.552	6.170	4.100

WATER YEAR 1972 : Max. 74 Min. 0.14 Mean 13.6 Annual Runoff 429.277 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.15	06.00	336.39	100				

PING RIVER BASIN

Mae Kwang River at Tha Sing Phitak Bridge, Lamphun (P5)

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

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: Rather Unstable by some scouring, no shifting adjustment for flow computation.

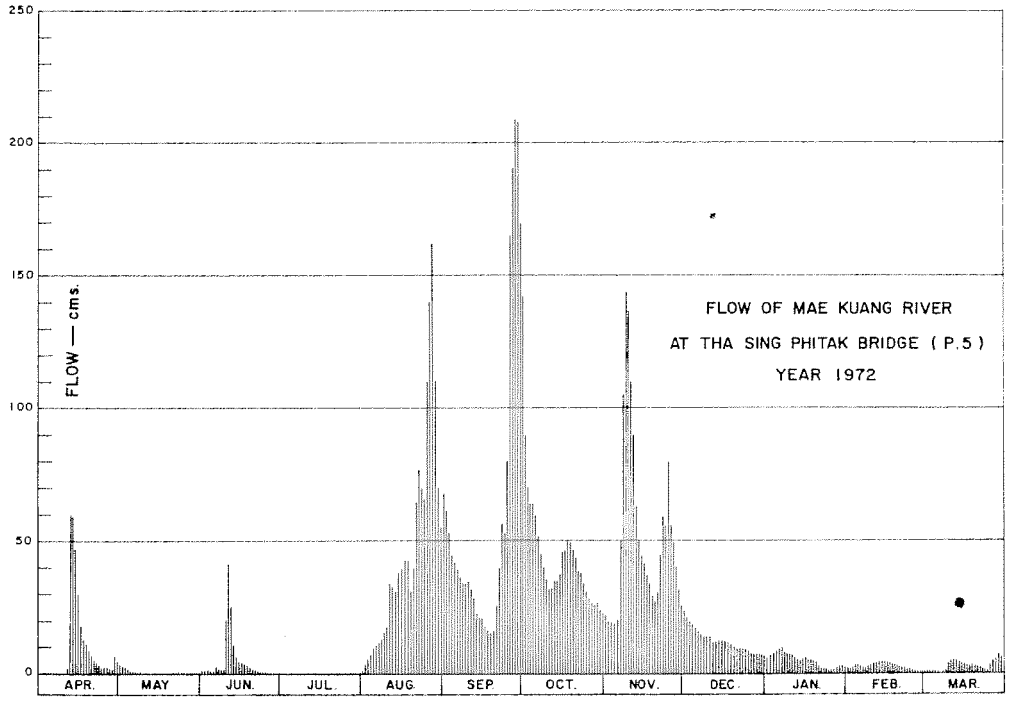
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 34 discharge measurements made in 1972. Upstream State diversions for irrigation of about 9,600 hectares at Mae Kuang Weir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.43	289.68	289.46	289.34	289.52	291.19	292.33	290.14	290.18	289.62	289.37	289.31
2	.42	.68	.49	.40	.73	.09	291.63	.13	.13	.58	.38	.31
3	.44	.62	.54	.41	.84	290.87	.24	.05	.09	.65	.38	.31
4	.46	.56	.49	.41	.89	.69	.10	.04	.04	.68	.47	.31
5	.44	.52	.47	.40	290.00	.62	.10	.04	289.99	.70	.48	.29
6	289.41	289.45	289.61	289.38	290.04	290.58	290.97	290.10	289.94	289.72	289.47	289.29
7	.38	.43	.57	.38	.07	.52	.81	.37	.92	.75	.43	.29
8	.39	.42	.54	.36	.11	.45	.66	291.93	.90	.68	.40	.28
9	.38	.40	.53	.34	.19	.45	.57	292.61	.89	.67	.44	.33
10	.37	.39	290.39	.31	.27	.48	.46	.50	.90	.66	.48	.49
11	289.59	289.39	290.77	289.33	290.63	290.42	290.39	291.98	289.88	289.64	289.50	289.55
12	291.12	.37	.49	.31	.61	.34	.39	.47	.83	.61	.50	.55
13	.09	.39	.03	.32	.57	.20	.47	.12	.63	.58	.52	.54
14	290.87	.40	289.85	.32	.58	.13	.47	290.84	.87	.54	.53	.51
15	.56	.39	.76	.31	.72	.11	.54	.71	.87	.55	.52	.49
16	290.26	289.37	289.73	289.31	290.77	290.02	290.72	290.58	289.84	289.60	289.50	289.47
17	.11	.40	.68	.33	.81	289.98	.74	.54	.82	.57	.51	.44
18	.07	.37	.64	.37	.82	.94	.84	.46	.81	.56	.49	.41
19	289.97	.38	.61	.35	.58	.93	.82	.34	.78	.56	.46	.47
20	.88	.40	.57	.34	.73	.98	.72	.30	.78	.52	.45	.45
21	289.79	289.42	289.53	289.36	291.24	290.22	290.68	290.37	289.72	289.45	289.44	289.43
22	.71	.42	.47	.39	.39	.59	.55	.68	.73	.39	.42	.39
23	.68	.40	.43	.40	.27	.96	.54	291.00	.74	.40	.40	.33
24	.59	.36	.39	.36	.16	.87	.47	290.95	.74	.35	.38	.34
25	.62	.36	.38	.37	.63	291.39	.36	291.45	.71	.33	.35	.31
26	289.60	289.36	289.37	289.36	292.41	292.93	290.33	291.17	289.68	289.34	289.33	289.47
27	.59	.37	.35	.35	.93	293.38	.28	290.85	.64	.35	.31	.54
28	.58	.40	.36	.34	.46	.67	.25	.64	.65	.41	.31	.62
29	.86	.43	.31	.38	291.68	.65	.26	.43	.67	.44	-	.65
30	.76	.41	.31	.36	.16	.24	.19	.28	.65	.46	-	.60
31	-	.44	-	.41	290.89	-	.16	-	.66	.39	-	.56
Mean	289.81	289.43	289.64	289.36	290.80	290.96	290.68	290.80	289.83	289.54	289.44	289.43
Max.	291.12	289.68	290.77	289.41	292.93	293.67	292.33	292.61	290.18	289.75	289.53	289.65
Min.	289.37	269.36	289.31	289.31	289.52	289.93	290.16	290.04	289.64	289.33	289.31	289.28

WATER YEAR 1972 : Max. 293.67 m. Min. 289.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	3.32	0.86	0.32	1.32	68	127	22	24	6.88	1.98	1.14
2	0.62	3.32	1.04	0.50	4.17	63	89	22	22	5.96	2.12	1.14
3	0.74	2.48	1.54	0.56	6.34	53	70	19	20	7.60	2.12	1.14
4	0.86	1.76	1.04	0.56	7.39	45	64	19	19	8.32	3.66	1.14
5	0.74	1.32	0.92	0.50	10	42	64	19	17	8.80	3.84	0.90
6	0.56	0.80	2.34	0.44	11	40	57	21	16	9.32	3.66	0.90
7	0.44	0.68	1.87	0.44	12	37	50	31	15	10	2.94	0.90
8	0.47	0.62	1.54	0.38	13	34	43	105	14	8.32	2.40	0.80
9	0.44	0.50	1.43	0.32	16	34	39	143	14	8.08	3.12	1.42
10	0.41	0.47	23	0.23	18	35	35	137	14	7.84	3.84	4.02
11	2.09	0.47	41	0.29	34	33	32	107	14	7.36	4.20	5.30
12	60	0.41	27	0.23	33	30	32	81	12	6.64	4.20	5.30
13	59	0.47	11	0.26	31	24	35	64	12	5.96	4.64	5.08
14	46	0.50	6.55	0.26	31	22	35	51	13	5.08	4.86	4.42
15	30	0.47	4.74	0.23	38	21	38	46	13	5.30	4.64	4.02
16	18	0.41	4.17	0.23	41	18	46	40	13	6.40	4.20	3.66
17	13	0.50	3.32	0.29	43	17	47	38	12	5.74	4.42	3.12
18	12	0.41	2.76	0.41	43	16	51	35	12	5.52	4.02	2.58
19	9.42	0.44	2.34	0.35	31	15	50	30	11	5.52	3.84	3.66
20	7.18	0.50	1.87	0.32	39	17	46	28	11	4.64	3.30	3.30
21	5.31	0.62	1.43	0.38	68	25	44	31	9.32	3.30	3.12	2.94
22	3.79	0.62	0.92	0.47	77	40	39	44	9.58	2.26	2.76	2.26
23	3.32	0.50	0.68	0.50	72	57	38	59	9.84	2.40	2.40	1.42
24	2.09	0.38	0.47	0.38	66	53	35	56	9.84	1.70	2.12	1.56
25	2.48	0.38	0.44	0.41	89	78	31	80	9.06	1.42	1.70	1.14
26	2.20	0.38	0.41	0.38	131	162	29	67	8.32	1.56	1.42	3.66
27	2.09	0.41	0.35	0.35	162	190	27	52	7.36	1.70	1.14	5.08
28	1.98	0.50	0.38	0.32	134	209	26	42	7.60	2.58	1.14	6.88
29	6.76	0.68	0.23	0.44	92	208	27	33	8.08	3.12	–	7.60
30	4.74	0.56	0.23	0.38	66	181	24	27	7.60	3.48	–	6.40
31	–	0.74	–	0.56	54	–	23	–	7.84	2.26	–	5.52
Total	297.41	25.62	145.87	11.69	1,474.22	1,867	1,393	1,549	392.44	165.06	87.44	98.40
Mean	9.91	0.83	4.86	0.38	47.5	62.2	44.9	51.6	12.6	5.32	3.12	3.17
Max.	60	3.32	41	0.56	162	209	127	143	24	10	4.86	7.60
Min.	0.41	0.38	0.23	0.23	1.32	15	23	19	7.36	1.42	1.14	0.80
Runoff - mcm.	25.696	2.213	12.603	1.010	127.373	161.309	120.355	133.834	33.907	14.261	7.555	8.502

WATER YEAR 1972 : Max. 209 Min. 0.23 Mean 20.6 Annual Runoff 648.618 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 28	18.00	293.71	212				

PING RIVER BASIN

Mae Ping River at Muang Kamphaeng Phet (P7A)

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: 42,730 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 72.00 m. (M.S.L.)

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

Location: near the gage observer's house.
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: 1960-1061, 1967 to date.

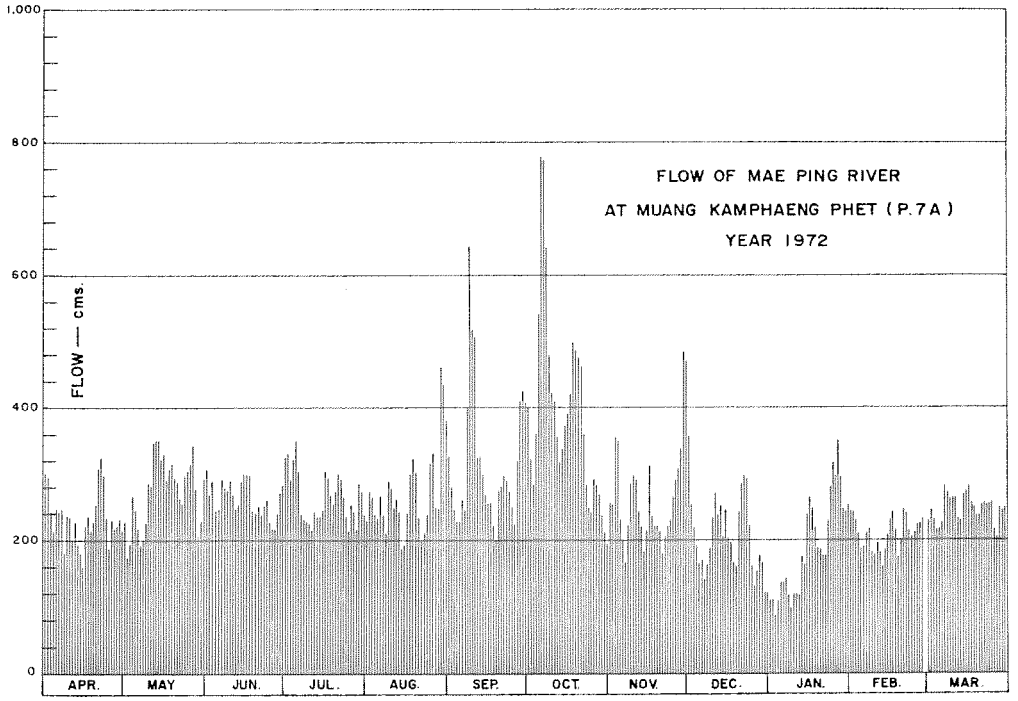
Stability of Channel Regimes: Fairly Stable by some scouring and silting, no shifting adjustment but periodic curves are used for flow computation.

General Description: Records good. Stage-discharge relation defined by 41 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.40	74.22	74.42	74.46	74.21	74.46	74.63	74.29	74.54	73.82	74.25	74.21
2	.38	.05	.32	.47	.33	.35	.47	.28	.28	.84	.25	.26
3	.25	.12	.37	.37	.31	.27	.36	.53	.21	.72	.21	.22
4	.17	.31	.31	.46	.23	.21	.57	.52	.12	.80	.14	.18
5	.26	.27	.25	.51	.22	.21	75.00	.23	.02	.92	.07	.18
6	74.25	74.20	74.26	74.40	74.32	74.30	75.37	74.12	74.04	73.92	74.10	74.20
7	.26	.10	.37	.24	.24	.26	.33	.02	73.94	.95	.17	.35
8	.07	.13	.34	.22	.16	.54	.12	.20	74.04	.84	.18	.34
9	.24	.18	.33	.21	.37	75.12	74.82	.36	.10	.77	.07	.31
10	.23	.36	.37	.14	.35	74.88	.68	.39	.19	.85	.06	.31
11	74.13	74.35	74.32	74.17	74.27	74.86	74.65	74.38	74.33	73.86	74.12	74.31
12	.21	.51	.25	.25	.30	.46	.54	.24	.25	.85	.05	.22
13	.11	.52	.28	.23	.26	.47	.44	.19	.28	74.05	.01	.21
14	.08	.52	.36	.23	.08	.40	.48	.07	.15	.01	.10	.32
15	.00	.45	.39	.25	.11	.32	.57	.20	.26	.23	.18	.33
16	74.19	74.47	74.39	74.40	74.23	74.29	74.61	74.43	74.14	74.31	74.22	74.35
17	.23	.37	.39	.38	.33	.29	.61	.24	.13	.27	.25	.29
18	.17	.42	.35	.32	.45	.21	.84	.19	.04	.20	.20	.28
19	.21	.43	.25	.28	.41	.13	.82	.20	.01	.10	.05	.24
20	.29	.38	.24	.35	.27	.33	.79	.17	.25	.09	.13	.24
21	74.42	74.36	74.27	74.40	74.18	74.35	74.77	74.07	74.36	74.06	74.26	74.28
22	.46	.30	.23	.38	.13	.39	.59	.14	.39	.06	.25	.29
23	.38	.28	.27	.32	.17	.37	.44	.19	.38	.23	.17	.28
24	.23	.39	.30	.25	.26	.33	.27	.21	.23	.38	.14	.28
25	.09	.41	.21	.17	.44	.27	.25	.29	.03	.44	.17	.29
26	74.22	74.43	74.18	74.28	74.47	74.20	74.38	74.37	73.98	74.40	74.20	74.18
27	.18	.50	.17	.27	.27	.47	.36	.41	.98	.52	.20	.15
28	.19	.29	.22	.17	.26	.65	.33	.47	74.06	.35	.22	.27
29	.22	.15	.32	.36	.76	.69	.24	.81	.02	.26	-	.26
30	.17	.21	.35	.33	.70	.65	.17	.79	73.86	.24	-	.27
31	-	.37	-	.23	.61	-	.11	-	.87	.28	-	.30
Mean	74.22	74.32	74.30	74.31	74.31	74.42	74.60	74.30	74.14	74.08	74.16	74.26
Max.	74.46	74.52	74.42	74.51	74.76	75.12	75.37	74.81	74.54	74.52	74.26	74.35
Min.	74.00	74.05	74.17	74.14	74.08	74.13	74.11	74.02	73.86	73.72	74.01	74.15

WATER YEAR 1972 : Max. 75.37 m. Min. 73.72 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	302	233	310	327	230	327	400	258	361	111	244	230
2	294	176	270	331	274	282	331	255	255	116	244	248
3	244	199	290	290	266	251	286	357	230	87	230	233
4	216	266	266	327	237	230	373	352	199	106	206	219
5	248	251	244	348	233	230	578	237	167	138	183	219
6	244	226	248	302	270	262	779	199	173	138	192	226
7	248	192	290	240	240	248	755	167	144	146	216	282
8	183	202	278	233	212	361	641	226	173	116	219	278
9	240	219	274	230	290	641	490	286	192	99	183	266
10	237	286	290	206	282	518	423	298	223	119	180	266
11	202	282	270	216	251	509	409	294	274	122	199	266
12	230	348	244	244	262	327	361	240	244	119	176	233
13	195	352	255	237	248	331	319	223	255	176	164	230
14	186	352	286	237	186	302	336	183	290	164	192	270
15	161	323	298	244	195	270	373	226	248	237	219	274
16	223	331	298	302	237	258	391	315	206	266	233	282
17	237	290	298	294	274	258	414	240	202	251	244	258
18	216	310	282	270	323	230	499	223	173	226	226	255
19	230	315	244	255	306	202	490	226	164	192	176	240
20	258	294	240	282	251	274	475	216	244	189	202	240
21	310	286	251	302	219	282	466	183	286	180	248	255
22	327	262	237	294	202	298	382	206	298	180	244	258
23	294	255	251	270	216	290	319	223	294	237	216	255
24	237	298	262	244	248	274	251	230	237	294	206	255
25	189	306	230	216	319	251	244	258	170	319	216	258
26	233	315	219	255	331	226	294	290	132	302	226	219
27	219	344	216	251	251	331	286	306	155	352	226	209
28	223	258	233	216	248	409	274	331	180	282	233	251
29	233	209	270	286	461	427	240	485	167	248	–	248
30	216	230	282	274	432	409	216	475	122	240	–	251
31	–	290	–	237	391	–	195	–	124	255	–	262
Total	7,075	8,500	7,926	8,260	8,385	9,508	12,290	8,008	6,501	6,007	5,943	7,736
Mean	236	274	264	266	270	317	396	267	210	194	212	249
Max.	327	352	310	348	461	641	779	485	361	352	248	282
Min.	161	176	216	206	186	202	195	167	122	87	164	209
Runoff – mcm.	611.280	734.400	684.806	713.664	724.464	821.491	1,061.856	691.891	561.687	519.005	513.475	668.391

WATER YEAR 1972 : Max. 779 Min. 87 Mean 263 Annual Runoff 8,306.410 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 6	01.00	75.44	820				

PING RIVER BASIN

Mae Ping River at Wang Kra Chao, Tak (P12)

Location: Lat. 17°-14'-30" N., Long. 99°-00'-45" E., on right bank 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: Fairly stable because of backwater effect, no shifting adjustment for flow computation.

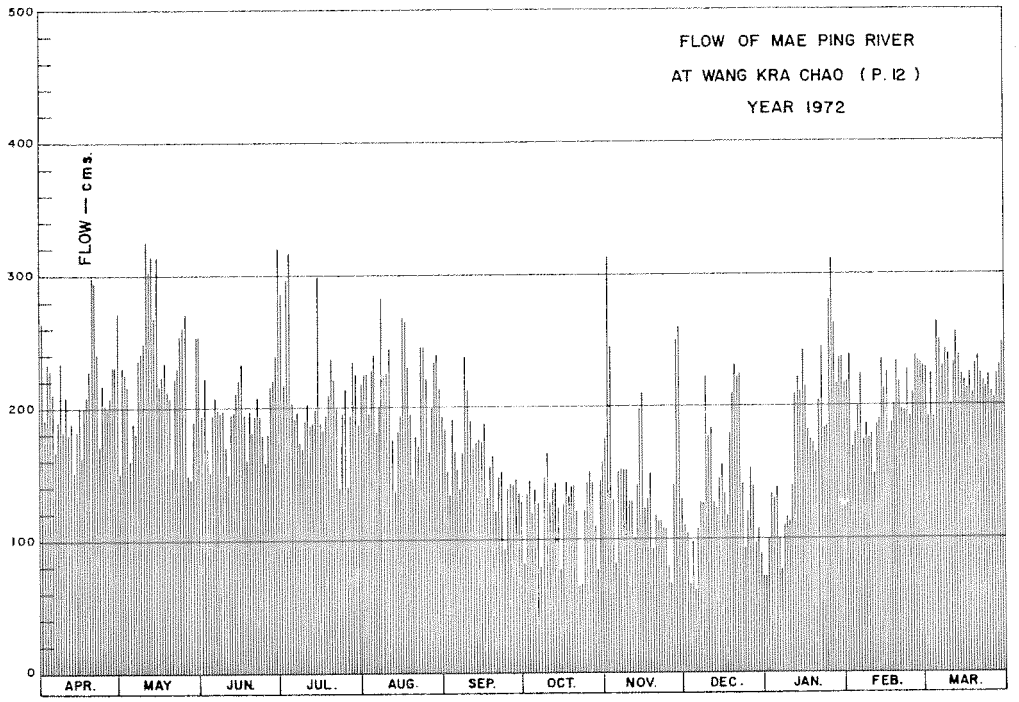
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 48 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 28,000 hectares above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	135.74	135.14	135.57	135.83	135.56	135.34	134.63	135.35	134.77	134.49	135.47	135.53
2	.38	.59	.69	.67	.56	.14	135.03	.94	.73	.68	.58	.32
3	.60	.55	.50	.91	.41	.04	.10	.61	.44	.94	.17	.50
4	.58	.50	.34	.97	.57	.41	134.94	134.92	.68	.91	.28	.31
5	.48	.20	.58	.62	.63	.24	135.06	.57	.41	.97	.37	.57
6	135.24	135.37	135.63	135.56	135.33	135.17	135.03	135.06	134.76	134.75	135.50	135.71
7	.50	.32	.60	.59	.48	.04	134.98	.07	.89	.53	.21	.61
8	.60	.61	.58	.48	.82	.23	.60	.06	.89	.77	.16	.53
9	.33	.66	.59	.45	.56	.62	135.12	.06	135.49	.82	.21	.60
10	.47	.68	.46	.56	.57	.43	.23	134.90	.22	.80	.23	.58
11	135.31	135.99	135.33	135.62	135.65	135.34	135.00	134.90	135.27	135.01	135.03	135.37
12	.36	.91	.58	.54	.29	.25	.07	.71	134.90	.41	.28	.55
13	.14	.95	.58	.55	.05	.28	.10	.90	.87	.49	.31	.67
14	.33	.76	.65	.60	.33	.29	134.97	135.34	135.07	.43	.56	.57
15	.43	.95	.69	.92	.39	.28	.59	.42	.09	.60	.46	.51
16	135.21	135.67	135.73	135.55	135.76	135.36	134.98	134.86	134.95	135.43	135.51	135.48
17	.43	.60	.60	.52	.75	.01	135.09	.92	.82	.25	.23	.43
18	.48	.73	.39	.57	.62	.17	.03	135.05	135.21	.21	.31	.50
19	.59	.65	.59	.67	.32	.22	.08	134.64	.42	.19	.43	.42
20	.89	.63	.51	.74	.12	134.95	.08	.83	.54	.14	.55	.54
21	135.87	135.36	135.57	135.68	135.31	135.03	134.93	134.79	135.49	135.38	135.47	135.57
22	.58	.60	.64	.59	.27	.12	.48	.79	.50	.61	.35	.51
23	.26	.74	.59	.25	.66	.14	.49	.76	134.93	.27	.34	.50
24	.52	.79	.46	.50	.66	134.72	.95	.76	.65	.28	.52	.45
25	.45	.82	.39	.56	.55	135.06	135.09	.56	.85	.76	.32	.49
26	135.43	135.84	135.51	135.24	135.24	135.08	135.15	134.44	135.07	135.94	135.48	135.44
27	.48	.32	.67	.49	.36	.08	.08	135.02	134.99	.64	.58	.40
28	.59	.31	.70	.64	.60	.11	134.93	.64	.68	.46	.55	.49
29	.59	.55	.76	.56	.63	.05	.59	.68	.75	.56	-	.53
30	.78	.70	.98	.36	.55	.00	135.10	134.94	.63	.57	-	.62
31	-	.79	-	.52	.39	-	.21	-	.49	.46	-	.62
Mean	135.49	135.63	135.58	135.59	135.48	135.17	134.96	135.02	134.85	135.22	135.37	135.51
Max.	135.89	135.99	135.98	135.97	135.82	135.62	135.23	135.94	135.54	135.94	135.58	135.71
Min.	135.14	135.31	135.33	135.24	135.05	134.72	134.48	134.44	134.41	134.49	135.03	135.31

WATER YEAR 1972 : Max. 135.99 m. Min. 134.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	263	151	193	267	225	184	82	186	111	73	220	230
2	191	231	222	217	225	151	134	313	105	98	240	193
3	233	223	178	297	196	135	144	245	67	135	170	225
4	229	213	152	317	227	196	121	132	98	131	187	192
5	210	160	195	204	240	167	138	83	63	140	202	238
6	166	189	207	191	182	155	134	153	109	108	225	264
7	213	180	199	197	210	135	127	154	128	78	176	245
8	233	236	195	175	282	165	79	153	128	111	188	230
9	182	246	197	170	225	238	148	153	223	118	176	243
10	208	250	171	191	227	200	165	129	178	115	179	240
11	179	324	150	204	244	184	129	129	185	145	148	202
12	189	304	195	187	175	168	140	102	129	209	187	234
13	151	314	195	189	137	174	144	129	125	223	192	257
14	182	268	212	199	182	175	125	197	145	212	236	238
15	200	314	222	300	193	174	78	211	157	243	214	227
16	162	217	234	189	268	187	127	124	137	212	227	221
17	200	222	199	183	266	131	143	132	118	182	179	212
18	210	234	159	193	238	155	134	151	176	176	192	225
19	231	212	197	217	180	163	141	93	211	173	212	211
20	299	207	181	237	148	122	141	119	232	165	234	232
21	294	155	193	219	179	134	120	114	223	204	220	238
22	229	222	209	197	172	148	66	114	225	245	198	227
23	170	237	197	139	246	151	67	109	133	185	197	225
24	217	-253	171	196	246	93	122	109	94	187	229	216
25	204	263	159	214	223	138	143	82	122	274	193	223
26	200	271	181	140	167	141	152	67	154	312	221	214
27	210	149	217	193	187	141	141	147	142	251	240	207
28	231	147	224	234	233	146	120	251	98	218	234	223
29	231	189	243	225	240	137	78	259	108	236	–	230
30	272	253	320	187	223	129	144	135	91	238	–	247
31	–	253	–	217	193	–	162	–	73	218	–	247
Total	6,389	7,087	5,967	6,485	6,579	4,717	3,889	4,475	4,288	5,615	5,696	7,056
Mean	213	229	199	209	212	157	125	149	138	181	203	228
Max.	299	324	320	317	282	238	165	313	232	312	240	264
Min.	151	147	150	140	137	93	66	67	63	73	148	192
Runoff - mcm.	552.010	612.317	515.549	560.304	568.426	407.549	336.010	386.640	370.483	485.436	492.134	609.638

WATER YEAR 1972 : Max. 324 Min. 63 Mean 187 Annual Runoff 5,896.195mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
May 13	21.00	136.43	465				

PING RIVER BASIN

Mae Taeng River at Kaeng Kut, Chiang Mai (P13)

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: Staff gage

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

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

Location: near the gage site.
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 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 Regimen: Stable, no shifting adjustment for flow computation.

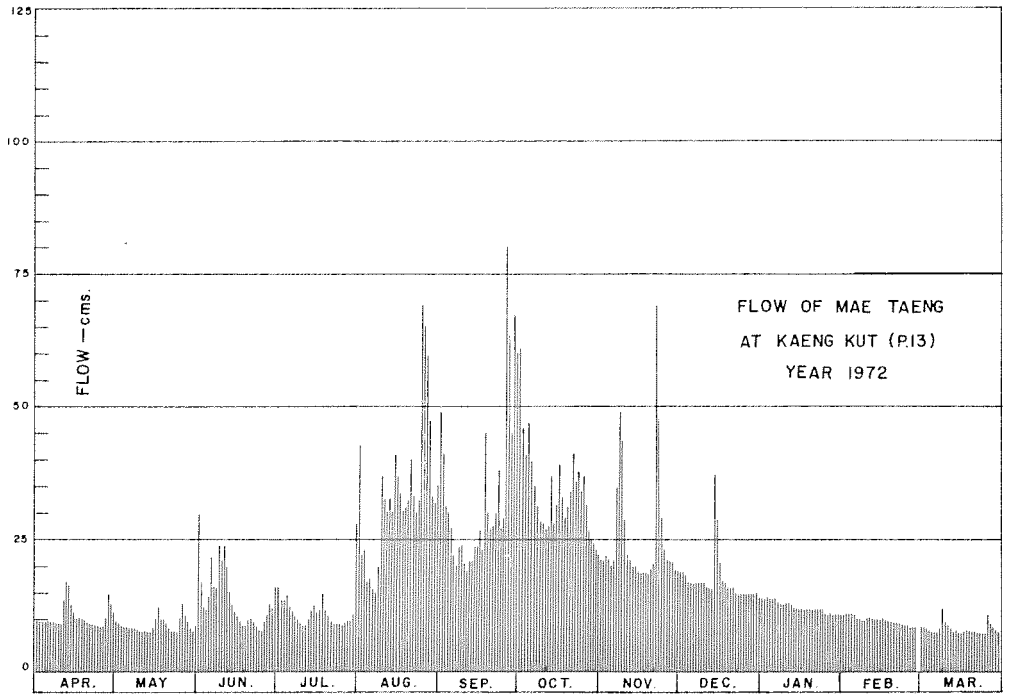
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 619 discharge measurements made during 1969-1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.74	0.73	1.26	0.97	1.48	1.57	1.72	1.11	1.05	0.91	0.80	0.69
2	.74	.71	0.95	.89	.12	.47	.53	.11	.04	.90	.80	.68
3	.74	.70	.84	.86	.15	.28	.45	.13	.02	.90	.79	.68
4	.74	.70	.83	.95	0.99	.27	.54	.09	.01	.89	.79	.67
5	.74	.69	.93	.91	1.03	.21	.48	.07	.00	.89	.79	.67
6	0.73	0.68	1.13	0.84	0.97	1.12	1.38	1.13	0.99	0.89	0.78	0.66
7	.73	.68	0.96	.80	.94	.08	.31	.41	.99	.88	.78	.66
8	.72	.67	.97	.78	1.05	.17	.28	.57	.99	.88	.77	.71
9	.72	.66	1.17	.74	.14	.17	.23	.29	1.00	.87	.77	.82
10	.71	.65	.11	.72	.39	.10	.23	.18	0.99	.87	.77	.73
11	0.94	0.65	1.17	0.71	1.29	1.06	1.21	1.13	0.97	0.86	0.77	0.69
12	1.01	.65	0.99	.72	.27	.05	.23	.10	.96	.86	.77	.67
13	0.97	.66	.88	.80	.32	.11	.38	.08	.96	.85	.76	.66
14	.84	.65	.84	.84	.27	.16	.24	.07	1.39	.85	.76	.66
15	.81	.71	.79	.86	.45	.17	.33	.06	.20	.85	.75	.65
16	0.76	0.77	0.75	0.79	1.37	1.22	1.41	1.05	1.05	0.84	0.75	0.65
17	.75	.82	.72	.83	.30	.15	.30	.05	.00	.84	.74	.66
18	.77	.74	.70	.93	.26	.51	.25	.05	0.99	.84	.74	.67
19	.74	.77	.71	.84	.30	.25	.30	.04	.98	.83	.73	.66
20	.73	.73	.78	.79	.31	.21	.35	.08	.97	.83	.73	.65
21	0.72	0.68	0.77	0.74	1.44	1.23	1.45	1.11	0.96	0.83	0.73	0.64
22	.71	.66	.72	.72	.30	.28	.37	.81	.95	.82	.72	.64
23	.71	.66	.69	.72	.27	.40	.40	.39	.94	.82	.71	.64
24	.71	.65	.68	.72	.37	.22	.33	.21	.93	.82	.71	.64
25	.70	.75	.66	.71	.81	.27	.39	.13	.93	.81	.71	.64
26	0.71	0.88	0.76	0.71	1.78	1.93	1.28	1.10	0.93	0.81	0.70	0.81
27	.85	.81	.79	.74	.70	.72	.22	.09	.92	.81	.70	.71
28	.95	.72	.86	.77	.47	.51	.19	.09	.92	.80	.69	.68
29	.84	.68	.82	.75	.32	.79	.17	.06	.92	.80	-	.66
30	.76	.65	.96	.83	.30	.71	.15	.05	.92	.80	-	.65
31	-	.71	-	1.19	.36	-	.13	-	.91	.80	-	.63
Mean	0.77	0.70	0.87	0.81	1.30	1.30	1.33	1.16	0.99	0.84	0.75	0.67
Max.	1.01	0.88	1.26	1.19	1.81	1.93	1.72	1.57	1.39	0.91	0.80	0.82
Min.	0.70	0.65	0.66	0.71	0.94	1.06	1.13	1.05	0.91	0.80	0.69	0.63

WATER YEAR 1972 : Max. 1.93 m. Min. 0.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.50	9.25	30	16	43	49	61	21	19	14	11	8.30
2	9.50	8.75	15	14	22	42	46	21	19	14	11	8.10
3	9.50	8.50	12	13	23	31	41	22	18	14	11	8.10
4	9.50	8.50	12	15	17	30	47	21	17	14	11	7.90
5	9.50	8.30	15	14	18	27	43	20	17	14	11	7.90
6	9.25	8.10	22	12	16	22	37	22	17	14	10	7.70
7	9.25	8.10	16	11	15	20	33	39	17	13	10	7.70
8	9.00	7.90	16	10	19	24	31	49	17	13	10	8.75
9	9.00	7.70	24	9.50	23	24	28	31	17	13	10	12
10	8.75	7.50	21	9.00	37	21	28	25	17	13	10	9.25
11	15	7.50	24	8.75	31	19	27	22	16	13	10	8.30
12	17	7.50	17	9.00	30	21	28	21	16	13	10	7.90
13	16	7.70	13	11	33	21	37	20	16	12	10	7.70
14	12	7.50	12	12	30	24	28	20	37	12	10	7.70
15	11	8.75	11	13	41	24	34	19	26	12	10	7.50
16	10	10	10	11	36	27	39	19	19	12	10	7.50
17	10	12	9.00	12	32	23	32	19	17	12	9.50	7.70
18	10	9.50	8.50	15	30	45	29	19	17	12	9.50	7.90
19	9.50	10	8.75	12	32	29	32	19	16	12	9.25	7.70
20	9.25	9.25	10	11	33	27	35	20	16	12	9.25	7.50
21	9.00	8.10	10	9.50	40	28	41	21	16	12	9.25	7.30
22	8.75	7.70	9.00	9.00	32	31	36	69	15	12	9.00	7.30
23	8.75	7.70	8.30	9.00	30	38	38	37	15	12	8.75	7.39
24	8.75	7.50	8.10	9.00	36	27	34	27	15	12	8.75	7.30
25	8.50	10	7.70	8.75	69	30	37	22	15	11	8.75	7.30
26	8.75	13	10	8.75	66	80	31	21	15	11	8.50	11
27	12	11	11	9.50	59	61	27	21	15	11	8.50	8.75
28	15	9.00	13	10	42	45	25	21	15	11	8.30	8.10
29	12	8.10	12	10	33	67	24	19	15	11	–	7.70
30	10	7.50	16	12	32	60	23	19	15	11	–	7.50
31	–	8.75	–	25	37	–	22	–	14	11	–	7.10
Total	341.00	270.65	411.35	358.75	1,037	1,017	1,054	746	536	383	272.30	249.75
Mean	11.4	8.73	13.7	11.6	33.4	339	34.0	24.9	17.3	12.3	9.72	8.06
Max.	17	13	30	25	69	80	61	49	37	14	11	12
Min.	8.50	7.50	7.70	8.75	15	19	22	19	14	11	8.30	7.10
Runoff – MCM.	29.462	23.384	35.541	30.996	89.597	87.869	91.066	64.454	46.316	33.091	23.527	21.578

WATER YEAR 1972 : Max. 80 Min. 7.10 Mean 18.3 Annual Runoff 576.875 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 26	7.00	2.38	132				

PING RIVER BASIN

Mae Chaem at Kaeng Ob Luang, Chiang Mai (P14)

Location: Lat. 18°-13'-49" N., Long. 98°-33'-35" E., on right bank near the bridge on Hot-Mae Sariang highway at kilometer market 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 P14
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: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

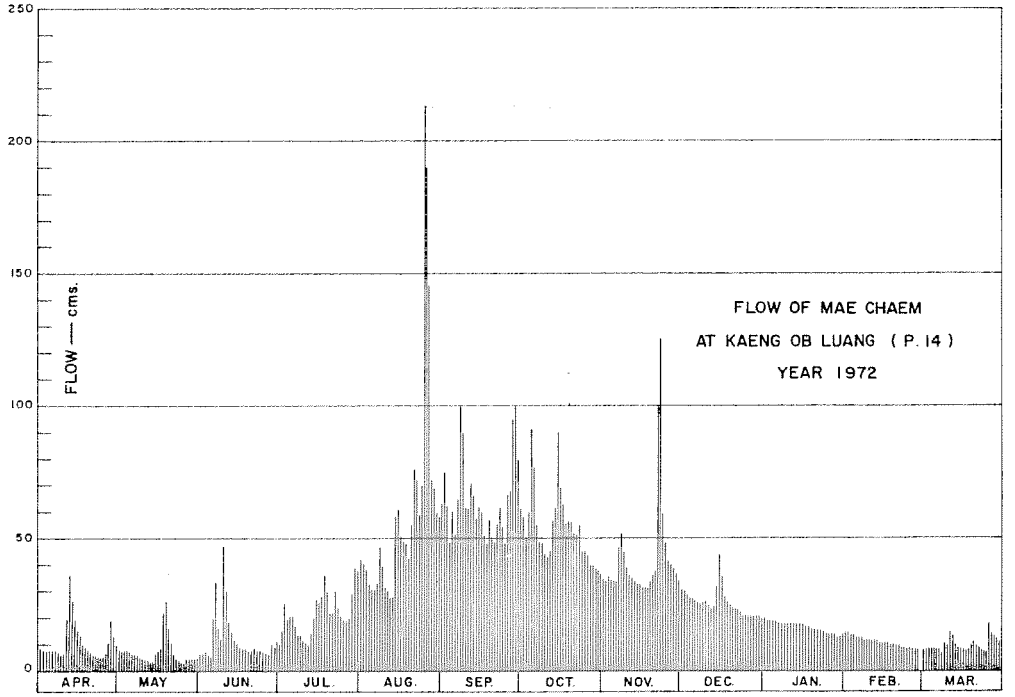
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 33 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.87	276.86	276.83	276.91	277.37	277.64	277.57	277.29	277.24	277.08	276.99	276.86
2	.86	.84	.83	277.03	.36	.71	.55	.28	.23	.07	.99	.86
3	.85	.86	.84	.16	.33	.52	.47	.30	.21	.07	.98	.87
4	.85	.86	.83	.08	.25	.44	.57	.30	.20	.07	.98	.87
5	.85	.85	.80	.09	.23	.56	.85	.27	.19	.07	.97	.87
6	276.85	276.83	277.06	277.09	277.24	277.51	277.66	277.28	277.18	277.06	276.97	276.87
7	.85	.82	.27	.03	.26	.60	.51	.42	.17	.05	.96	.87
8	.84	.81	.16	276.99	.42	.91	.45	.48	.17	.05	.95	.85
9	.82	.80	276.94	.99	.33	.82	.43	.40	.18	.05	.95	.93
10	.83	.79	277.42	.94	.25	.59	.39	.33	.18	.05	.95	.89
11	277.01	276.78	277.23	276.92	277.24	277.57	277.38	277.31	277.16	277.05	276.95	277.00
12	.30	.77	.07	.91	.19	.67	.41	.29	.14	.04	.94	276.98
13	.20	.76	.02	.99	.20	.61	.53	.28	.15	.04	.94	.92
14	.08	.76	276.95	277.08	.54	.54	.59	.26	.22	.04	.93	.88
15	.02	.82	.93	.18	.57	.58	.83	.26	.39	.04	.93	.87
16	276.98	276.84	276.90	277.17	277.47	277.56	277.64	277.25	277.30	277.04	276.92	276.86
17	.91	.86	.87	.20	.44	.47	.56	.25	.21	.03	.92	.85
18	.88	277.08	.87	.30	.43	.43	.52	.25	.18	.03	.91	.85
19	.86	.17	.87	.20	.38	.53	.53	.27	.16	.02	.90	.89
20	.84	.05	.85	.11	.51	.47	.52	.29	.15	.02	.90	.92
21	276.82	276.93	276.86	277.11	277.72	277.44	277.48	277.32	277.14	277.01	276.89	276.89
22	.81	.83	.87	.22	.69	.50	.48	.85	.13	.01	.89	.87
23	.80	.78	.86	.16	.55	.59	.51	278.10	.12	.00	.88	.86
24	.80	.75	.86	.09	.63	.48	.40	277.54	.11	.00	.87	.85
25	.81	.74	.85	.08	278.68	.43	.40	.45	.11	276.99	.88	.84
26	276.83	276.74	276.84	277.07	278.53	277.63	277.39	277.37	277.10	276.98	276.87	277.04
27	.88	.78	.83	.08	.10	.64	.35	.34	.09	.98	.87	276.99
28	277.07	.79	.90	.20	277.81	.87	.35	.33	.09	.98	.87	.97
29	276.97	.79	.88	.24	.65	.91	.33	.31	.09	.97	-	.94
30	.90	.79	.92	.33	.55	.72	.32	.27	.09	.97	-	.92
31	-	.79	-	.32	.54	-	.31	-	.08	.98	-	.89
Mean	276.97	276.81	276.94	277.10	277.53	277.60	277.49	277.36	277.17	276.80	276.93	276.90
Max.	277.30	277.17	277.42	277.33	278.68	277.91	277.85	278.10	277.39	277.08	276.99	277.04
Min.	276.80	276.74	276.80	276.91	277.19	277.43	277.31	277.25	277.08	276.97	276.87	276.84

WATER YEAR 1972 : Max. 278.68 m. Min. 276.74 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.56	8.08	6.64	10	42	68	61	35	31	20	15	8.08
2	8.08	7.12	6.64	17	41	75	59	34	31	19	15	8.08
3	7.60	8.08	7.12	26	39	56	51	36	29	19	14	8.56
4	7.60	8.08	6.64	20	32	49	61	36	28	19	14	8.56
5	7.60	7.60	5.20	21	31	60	92	34	28	19	13	8.56
6	7.60	6.64	19	21	31	52	70	34	27	19	13	8.56
7	7.60	6.16	34	17	33	63	55	47	26	18	13	8.56
8	7.12	5.68	26	14	47	100	49	52	26	18	12	7.60
9	6.16	5.20	12	14	39	88	48	45	27	18	12	11
10	6.64	4.88	47	12	32	62	44	39	27	18	12	9.52
11	16	4.56	31	11	31	61	43	37	26	18	12	15
12	36	4.24	19	10	28	71	46	35	24	18	12	14
13	28	3.92	16	14	28	64	57	34	25	18	12	11
14	20	3.92	12	20	58	58	62	33	30	18	11	9.04
15	16	6.16	11	27	61	62	90	33	44	18	11	8.56
16	14	7.12	10	26	51	60	68	32	36	18	11	8.08
17	10	8.08	8.56	28	49	51	60	32	29	17	11	7.60
18	9.04	20	8.56	36	48	48	56	32	27	17	10	7.60
19	8.08	26	8.56	28	43	57	57	34	26	16	10	9.52
20	7.12	18	7.60	22	55	51	56	35	25	16	10	11
21	6.16	11	8.08	22	76	49	52	38	24	16	9.52	9.52
22	5.68	6.64	8.56	30	73	54	52	92	24	16	9.52	8.56
23	5.20	4.56	8.08	26	59	62	55	125	23	15	9.04	8.08
24	5.20	3.60	8.08	21	67	52	45	58	22	15	8.56	7.60
25	5.68	3.28	7.60	20	213	48	45	49	22	14	9.04	7.12
26	6.64	3.28	7.12	19	189	67	44	42	21	14	8.56	18
27	9.04	4.56	6.64	20	125	68	40	40	21	14	8.56	14
28	19	4.88	10	28	72	95	40	39	21	14	8.56	13
29	13	4.88	9.04	31	69	100	39	37	21	13	–	12
30	10	4.88	11	39	59	76	38	34	21	13	–	11
31	–	4.88	–	38	58	–	37	–	20	14	–	9.52
Total	324.40	225.96	386.72	688	1,879	1,927	1,672	1,283	812	519	314.36	306.88
Mean	10.8	7.29	12.9	22.2	73.5	64.5	54.2	43.1	29.7	16.7	11.2	9.90
Max.	36	26	47	39	213	100	92	125	44	20	15	18
Min.	5.20	3.28	5.20	10	28	48	37	32	20	13	8.56	7.12
Runoff – mcm.	28.028	19.523	33.413	59.443	162.346	166.493	144.461	110.851	70.157	44.842	27.161	26.514

WATER YEAR 1972 : Max. 213 Min. 3.28 Mean 28.3 Annual Runoff 893.231 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.23	11.00	278.98	262				

PING RIVER BASIN

Mae Ping River at Amphoe Khlong Khlung, Kamphaeng Phet (P15)

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.-4.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: Fairly Stable, no shifting adjustment for flow computation.

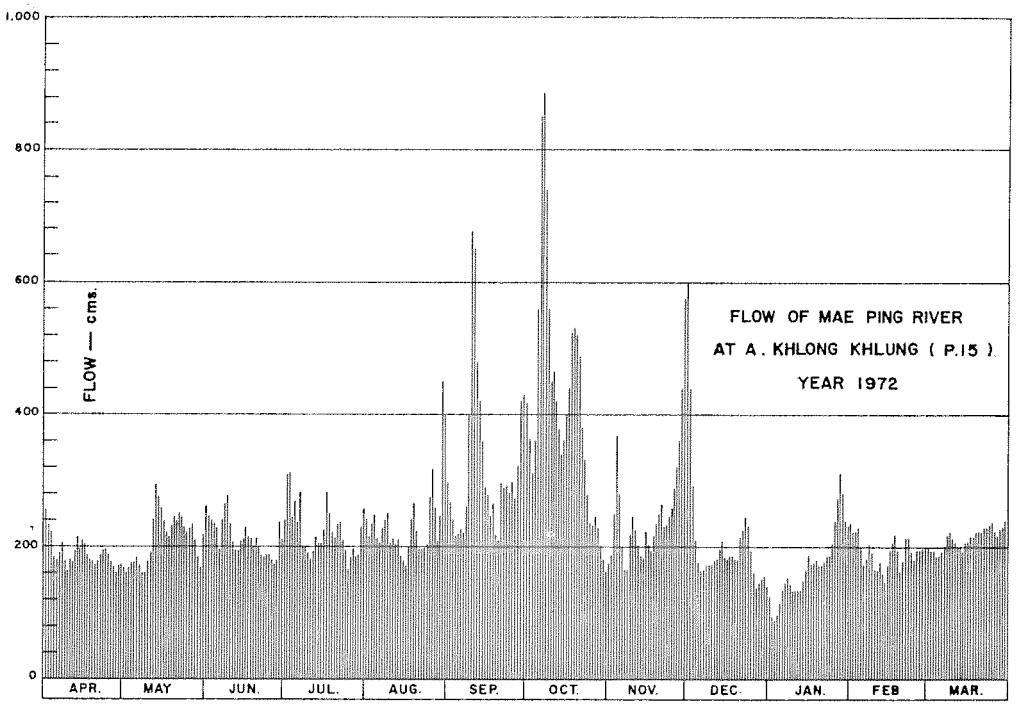
Overbank Flow Conditions: No overbank flow.

Gereral Description: Records good except those for periods on February 1-28, which are poor. Stage-discharge relation defined by 5 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	54.08	53.78	54.10	54.07	54.04	54.21	54.52	53.81	54.90	53.63	*54.02	53.89
2	.00	.75	.05	.25	53.95	.13	.36	.85	.58	.47	*53.97	.88
3	53.97	.79	.04	.25	54.01	.03	.25	54.03	.19	.45	* .97	.87
4	.84	.81	.02	.05	.06	53.95	.40	.40	53.91	.48	* .99	.85
5	.82	.81	.00	.12	53.95	.97	.79	.18	.81	.55	* .89	.85
6	53.86	53.84	53.88	54.02	53.92	53.99	55.35	53.91	53.77	53.65	*53.80	53.87
7	.91	.79	54.01	53.97	.99	.97	.41	.77	.77	.70	* .83	.90
8	.86	.75	.11	.90	54.03	54.08	.19	.77	.80	.72	* .91	.95
9	.76	.75	.15	.89	.07	.50	54.85	.91	.80	.70	* .87	.97
10	.83	.81	.07	.85	53.92	55.04	.59	54.05	.80	.65	* .77	.95
11	53.81	53.86	53.94	53.83	53.94	54.99	54.62	54.02	53.82	53.65	*53.77	53.92
12	.87	54.00	.87	.89	.91	.65	.53	53.93	.83	.65	* .82	.90
13	.95	.20	.87	.95	.93	.50	.42	.85	.89	.65	* .77	.90
14	.89	.15	.92	.92	.85	.28	.33	.84	.93	.73	* .71	.87
15	.93	.10	.93	.91	.83	.19	.41	.98	.85	.78	* .80	.91
16	53.91	54.05	53.99	54.00	53.80	54.16	54.51	53.92	53.83	53.85	*53.91	53.92
17	.85	53.99	.95	.17	.89	.05	.59	.88	.85	.80	* .92	.95
18	.83	.95	.94	.05	54.04	.11	.75	.96	.85	.81	* .96	.95
19	.82	.99	.90	53.97	.12	53.96	.77	54.01	.83	.82	* .87	.97
20	.80	54.05	.94	.95	53.99	.93	.71	.06	.83	.80	* .76	.97
21	53.82	54.03	53.90	54.01	53.89	54.21	54.66	54.11	53.95	53.80	*53.84	53.97
22	.85	.07	.85	.02	.89	.19	.41	.00	54.01	.82	* .94	.99
23	.88	.05	.84	53.93	.89	.20	.30	.01	.04	.85	* .94	.99
24	.89	53.99	.85	.87	.91	.17	.13	.05	.01	.85	* .86	54.00
25	.85	.97	.85	.78	54.12	.21	.00	.09	53.89	.93	* .83	.02
26	53.83	53.99	53.82	53.85	54.27	54.14	54.00	54.18	53.74	54.03	*53.88	53.98
27	.79	54.01	.80	.89	.13	.23	.05	.29	.67	.13	* .88	.95
28	.76	53.93	.83	.85	53.93	.39	.00	.39	.70	.25	* .88	.98
29	.80	.85	54.02	.86	54.08	.53	53.91	.54	.72	.13		54.00
30	.80	.79	53.93	54.00	.59	.55	.83	.85	.73	.03		.03
31		.96		.09	.41		.77		.69	.00		.01
Mean	53.86	53.93	53.94	53.97	54.01	54.25	54.46	54.05	53.90	53.78	53.87	53.94
Max.	54.08	54.20	54.15	54.25	54.59	55.04	55.41	54.85	54.90	54.25	54.02	54.03
Min.	53.76	53.75	53.80	53.78	53.80	53.93	53.77	53.77	53.67	53.45	53.71	53.85

WATER YEAR 1972 : Max. 55.41 m. Min. 53.45 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	256	169	262	253	244	298	419	177	602	131	238	199
2	232	161	247	312	217	272	353	188	445	96	223	196
3	223	171	244	312	235	241	312	241	291	92	223	194
4	185	177	238	247	250	217	368	368	205	98	229	188
5	180	177	232	268	217	223	545	288	177	113	199	188
6	191	185	196	238	208	229	851	205	166	136	174	194
7	205	171	235	283	229	223	886	166	166	148	182	202
8	191	161	265	202	241	256	760	166	174	153	205	217
9	164	161	278	199	253	410	576	205	174	148	194	223
10	182	177	253	188	208	678	450	247	174	136	166	217
11	177	191	214	182	214	651	463	238	180	136	166	208
12	194	232	194	199	205	477	423	211	182	136	180	202
13	217	294	194	217	211	410	376	188	199	136	166	202
14	199	278	208	208	188	323	341	185	211	156	151	194
15	211	262	211	205	182	291	372	226	188	169	174	205
16	205	247	229	232	174	281	414	208	182	188	205	208
17	188	229	217	284	199	247	450	196	188	174	208	217
18	182	217	214	247	244	265	525	220	188	177	220	217
19	180	229	202	223	268	220	535	235	182	180	194	223
20	174	247	214	217	229	211	505	250	182	174	164	223
21	180	241	202	235	199	298	482	265	217	174	185	223
22	188	253	188	238	199	291	372	232	235	180	214	229
23	196	247	185	211	199	294	330	235	244	188	214	229
24	199	229	188	194	205	284	272	247	235	188	191	232
25	188	223	188	169	268	298	232	259	199	211	182	238
26	182	229	180	188	319	275	232	288	158	241	196	226
27	171	235	174	199	272	305	247	326	141	272	196	217
28	164	211	182	188	211	364	232	364	148	312	196	226
29	174	188	238	191	256	423	205	428	153	272		232
30	174	171	211	232	450	432	182	576	156	241		241
31		220		259	372		166		146	232	-	235
Total	5,752	6,583	6,483	6,960	7,366	9,687	12,876	7,628	6,488	5,388	5,435	6,645
Mean	192	212	216	224	238	323	415	254	209	174	194	214
Max.	256	294	278	312	450	678	886	576	602	312	238	241
Min.	164	161	174	169	174	211	166	166	141	92	151	188
Runoff - MCM.	496.973	568.771	560.131	601.344	636.422	836.957	1,112.486	659.059	560.563	465.523	469.584	574.128

WATER YEAR 1972 : Max. 886 Min. 92 Mean 239 Annual Runoff 7,541.942 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7	03.00	55.46	916				

PING RIVER BASIN

Mae Ping River at Amphoe Khanu Woralaksaburi, Kamphaeng Phet (P16)

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. - H.S. P16

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

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

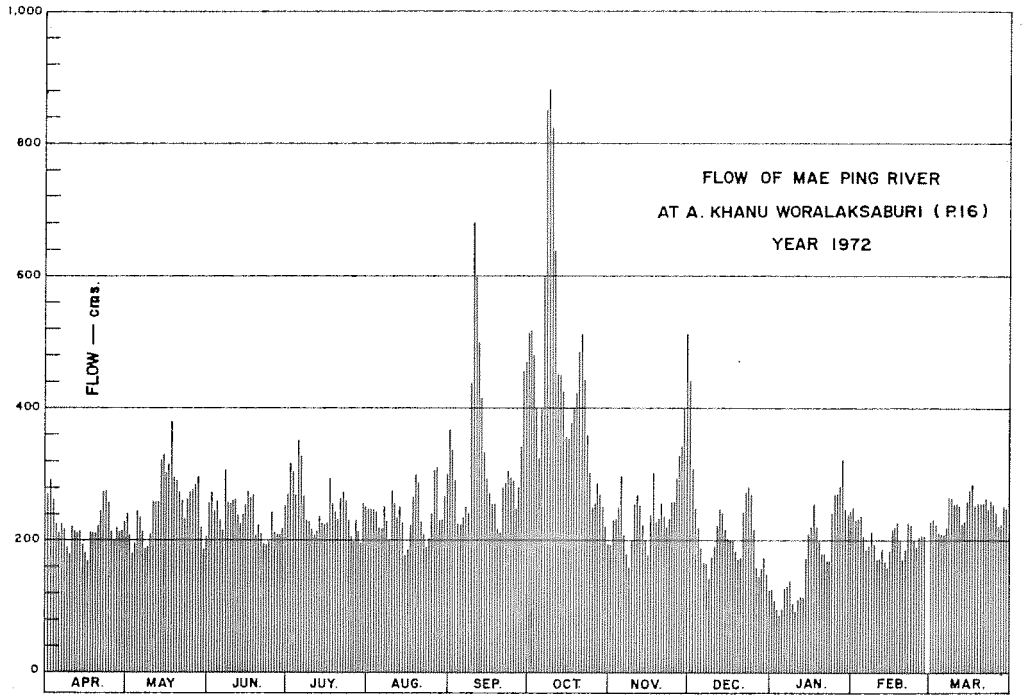
Overbank Flow Conditions: No overbank flow.

General Description: Records good except those for periods on June 19-24, September 11-13, March 25-26, which are poor. Stage-discharge relation defined by 4 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43.55	43.47	43.52	43.55	43.43	43.80	44.13	43.32	44.01	43.07	43.49	43.43
2	.61	.40	.56	.68	.43	.71	.14	.44	43.67	.00	.44	.44
3	.54	.27	.48	.65	.49	.56	.04	.45	.50	42.94	.44	.43
4	.42	.33	.52	.55	.48	.43	43.77	.75	.42	.90	.46	.38
5	.38	.48	.45	.76	.41	.42	.67	.63	.34	.94	.37	.38
6	43.42	43.45	43.40	43.71	43.40	43.46	43.95	43.37	43.23	43.08	43.28	43.37
7	.41	.37	.65	.56	.50	.50	44.51	.27	.23	.09	.31	.41
8	.32	.30	.52	.45	.41	.47	.78	.20	.14	.12	.39	.54
9	.27	.31	.51	.44	.35	44.01	.83	.37	.25	42.96	.35	.54
10	.41	.39	.52	.41	.56	.46	.67	.52	.30	.93	.25	.51
11	43.39	43.52	43.53	43.37	43.50	44.24	44.35	43.55	43.42	43.00	43.25	43.51
12	.38	.52	.48	.39	.45	.07	.00	.51	.49	.03	.30	.50
13	.39	.78	.42	.46	.50	43.85	43.99	.43	.48	.02	.25	.42
14	.32	.69	.46	.43	.43	.70	.93	.36	.41	.23	.20	.43
15	.29	.72	.52	.42	.26	.62	.78	.26	.36	.37	.28	.54
16	43.23	43.64	43.56	43.43	43.30	43.55	43.77	43.43	43.34	43.41	43.40	43.58
17	.38	.67	.54	.62	.39	.51	.84	.64	.34	.51	.41	.59
18	.38	.58	.55	.52	.54	.51	.89	.43	.31	.43	.43	.50
19	.38	.62	.38	.49	.63	.40	.93	.44	.25	.36	.35	.51
20	.41	.61	.42	.45	.60	.39	44.07	.51	.25	.28	.24	.51
21	43.48	43.57	43.38	43.53	43.43	43.58	44.13	43.47	43.47	43.28	43.32	43.51
22	.56	.55	.33	.56	.37	.60	43.98	.41	.56	.24	.42	.53
23	.57	.45	.32	.54	.31	.65	.78	.46	.58	.24	.42	.49
24	.52	.53	.33	.48	.36	.62	.63	.52	.56	.44	.34	.52
25	.39	.56	43.47	.38	.49	.61	.49	.52	.41	.55	.31	.51
26	43.34	43.57	43.39	43.34	43.65	43.49	43.51	43.60	43.23	43.55	43.36	43.48
27	.41	.59	.37	.44	.66	.58	.60	.71	.12	.58	.36	.41
28	.39	.63	.37	.40	.44	.80	.57	.74	.20	.69	.36	.42
29	.39	.42	.40	.33	.56	44.00	.51	.87	.25	.60		.50
30	.43	.30	.51	.51	.96	.04	.41	44.13	.22	.46		.49
31		.35		.50	.87		.33		.07	.47		.52
Mean	43.41	43.50	43.46	43.49	43.49	43.69	43.93	43.51	43.37	43.25	43.35	43.48
Max.	43.61	43.78	43.65	43.76	43.96	44.46	44.83	44.13	44.01	43.69	43.49	43.59
Min.	43.23	43.27	43.32	43.33	43.26	43.39	43.33	43.20	43.07	42.90	43.20	43.37

WATER YEAR 1972 : Max. 44.83 m. Min. 42.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	270	242	259	270	228	368	514	194	459	127	249	228
2	292	218	274	318	228	330	519	232	315	110	232	232
3	266	180	245	307	249	274	472	235	252	97	232	228
4	225	197	259	270	245	228	355	347	225	88	238	212
5	212	245	235	351	221	225	315	299	200	97	209	212
6	225	235	218	330	218	238	432	209	168	129	182	209
7	221	209	307	274	252	252	707	180	168	132	191	221
8	194	188	259	235	221	242	855	160	144	139	215	266
9	180	191	256	232	203	459	883	209	174	101	203	266
10	221	215	259	221	274	681	794	259	188	95	174	256
11	215	259	263	209	252	568	624	270	225	110	174	256
12	212	259	245	215	235	486	454	256	249	117	188	252
13	215	360	225	238	252	389	450	228	245	115	174	225
14	194	322	238	228	228	326	423	206	221	168	160	228
15	185	330	259	225	177	296	360	177	206	209	182	266
16	168	303	274	228	188	270	355	228	200	221	218	281
17	212	315	266	296	215	256	385	303	200	256	221	284
18	212	381	270	259	266	256	406	228	191	228	228	252
19	212	296	212	249	299	218	423	232	174	206	203	256
20	221	292	225	235	288	215	486	256	174	182	171	256
21	245	277	212	263	228	281	514	242	242	182	194	256
22	274	270	197	274	209	288	445	221	274	171	225	263
23	277	235	194	266	191	307	360	238	281	171	225	249
24	259	263	197	245	206	296	299	259	274	232	200	259
25	215	274	242	212	249	292	249	259	221	270	191	256
26	200	277	215	200	307	249	256	288	168	270	206	245
27	221	284	209	232	311	281	288	330	139	281	206	221
28	215	299	209	218	232	368	277	343	160	322	206	225
29	215	225	218	197	274	454	256	397	174	288		252
30	228	188	256	256	436	472	221	514	166	238		249
31		203		252	397		197		127	242		259
Total	6,701	7,932	7,197	7,805	7,779	9,865	13,574	7,799	6,604	5,594	5,697	7,620
Mean	223	256	240	252	251	329	438	260	213	180	203	246
Max.	292	360	307	351	436	681	883	514	459	322	249	284
Min.	168	180	194	197	177	215	197	160	127	88	160	209
Runoff - mcm.	578.966	685.325	621.821	674.352	672.106	852.336	1,172.794	673.834	570.586	483.322	492.221	658.368

WATER YEAR 1972 : Max. 883 Min. 88 Mean 258 Annual Runoff 8,136.029 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.9	20.00	44.86	901				

PING RIVER BASIN

Mae Ping River at Amphoe Banphot Phisai, Nakhon Sawan (P17)

Location: Lat. 15°-56'-02" N., Long. 99°-58'-40" 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. P17

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

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 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: 1960, 1967-1974.
Rated by Float: -
Rated by Current Meter: 1960, 1967-1974.

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

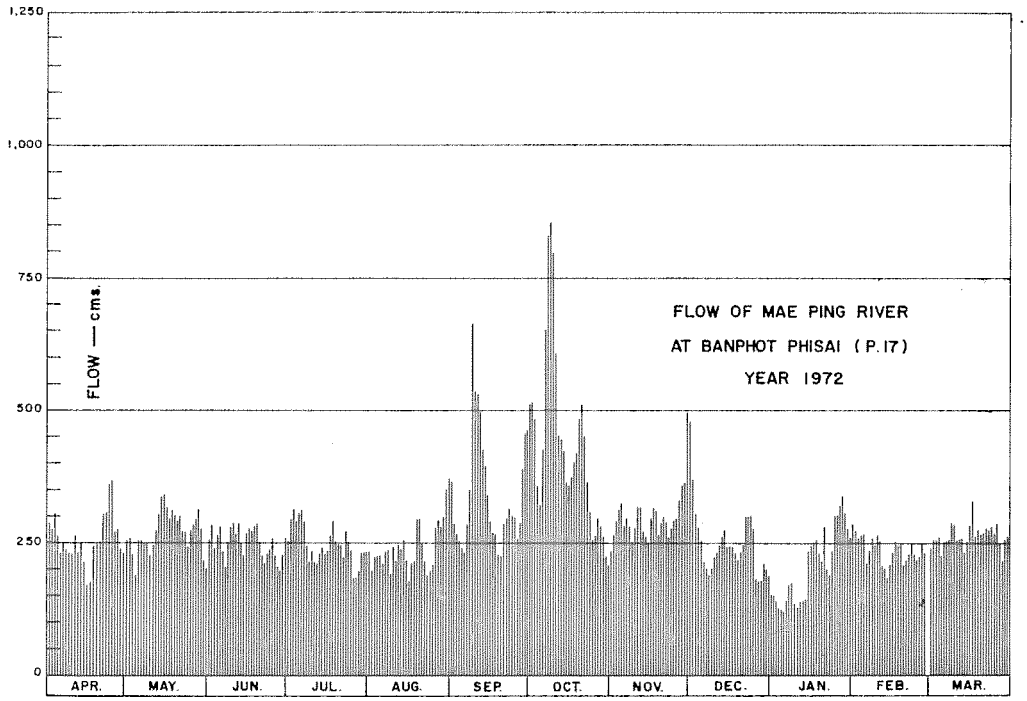
Overbank Flow Conditions: Including overbank flow.

General Description: Records good. Stage-discharge relation defined by 7 discharge measurements made in 1972. Flow regulated by Bhumiphol Dam reservoir and diverted for irrigation of about 40,300 hectares above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35.30	35.19	35.18	35.18	35.10	35.55	*35.96	35.12	35.87	34.76	35.30	35.12
2	.26	.20	.29	.32	34.94	.30	.97	.24	.58	.75	.26	.18
3	.36	34.98	.12	.38	35.06	.24	.85	.30	.36	.72	.20	.18
4	.20	.90	.18	.31	.07	.20	.53	.39	.26	.64	.23	.20
5	.09	35.18	.27	.35	.07	.14	.41	.43	.18	.62	.23	.07
6	35.16	35.18	35.15	35.39	35.02	35.10	35.74	35.29	35.04	34.73	35.02	35.16
7	.15	.15	34.99	.38	.10	.26	36.41	.33	34.99	.77	.10	.18
8	.10	.16	35.16	.17	.12	.46	.75	.30	.93	.86	.20	.19
9	.08	.10	.27	.04	34.94	36.36	.81	.18	.98	.87	.14	.30
10	.09	.01	.21	.11	35.14	.03	.61	.26	35.07	.67	.22	.29
11	35.21	35.18	35.22	35.03	35.04	36.02	36.22	35.41	35.08	34.65	35.19	35.24
12	.09	.26	.29	.01	.16	35.94	35.80	.40	.33	.70	.00	.16
13	.16	.36	.22	.10	.12	.74	.79	.25	.23	.71	.00	.20
14	.04	.47	.07	.13	.18	.63	.72	.22	.26	.72	34.91	.10
15	34.95	.48	.23	.09	.06	.39	.55	.18	.14	35.10	35.00	.19
16	34.84	35.41	35.26	35.10	34.88	35.26*	35.53	35.32	35.14	35.14	35.06	35.29
17	.88	.33	.25	.18	35.02	.22*	.61	.40	.14	.17	.19	.42
18	35.13	.38	.27	.31	.05	.22*	.68	.38	.12	.19	.15	.21
19	.16	.35	.29	.18	.33	.08*	.72	.22	.03	.12	.16	.26
20	.16	.32	.23	.16	.33	.07	.89	.30	.09	.04	.00	.22
21	35.24	35.35	35.08	35.16	35.12	35.30	35.96	35.34	35.15	35.27	35.04	35.23
22	.36	.25	.02	.25	.00	.33	.78	.32	.34	34.98	.08	.26
23	.37	.24	.08	.25	34.92	.39	.55	.21	.34	.94	.16	.25
24	.54	.14	.12	.18	.97	.35	.36	.28	.35	35.06	.07	.28
25	.23	.25	.17	.12	35.01	.34	.19	.32	.27	.34	.04	.23
26	35.24	35.29	35.12	34.89	35.27	35.19	35.21	35.34	34.89	35.35	35.06	35.30
27	.26	.32	.00	.90	.32	.30	.33	.47	.88	.42	.15	.16
28	.14	.38	34.95	.96	.28	.57	.29	.55	.88	.47	.09	.04
29	.10	.27	35.10	35.09	.33	.80	.21	.56	35.02	.40		.18
30	.08	.00	.19	.09	.63	.85	.09	.92	34.98	.29		.20
31		34.94		.10	.58		* .00		.99	.20		.22
Mean	35.18	35.24	35.17	35.17	35.15	35.44	35.72	35.04	35.19	34.92	35.12	35.21
Max.	35.54	35.48	35.29	35.39	35.63	36.36	36.81	35.92	35.87	35.47	35.30	35.42
Min.	34.84	34.90	34.95	34.89	34.88	35.07	35.00	35.12	34.88	34.62	34.91	35.04

WATER YEAR 1972 : Max. 36.81 m. Min. 34.62 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	288	257	255	255	234	364	511	239	477	153	288	239
2	277	260	285	294	194	268	515	271	374	151	277	255
3	306	203	239	312	224	271	469	288	306	144	260	255
4	260	184	255	291	226	260	358	315	277	128	268	260
5	231	255	280	303	226	244	321	327	255	124	268	226
6	250	255	247	315	213	234	428	285	218	147	213	250
7	247	247	206	312	234	277	686	297	206	155	234	255
8	234	250	250	252	239	336	829	288	191	175	260	257
9	229	234	280	218	194	666	855	255	203	177	244	288
10	231	211	263	237	244	537	770	277	226	137	266	285
11	263	255	266	216	218	534	610	321	229	130	257	271
12	231	277	285	211	250	503	450	318	297	140	208	250
13	250	306	266	234	239	428	446	274	268	142	208	260
14	218	339	226	242	255	390	421	266	277	144	186	234
15	196	342	268	231	224	315	364	255	244	234	208	257
16	171	321	277	234	180	277	358	294	244	244	224	285
17	180	297	274	255	213	266	383	318	244	252	257	324
18	242	312	280	291	221	266	407	312	239	257	247	263
19	250	303	285	255	297	229	421	266	216	239	250	277
20	250	294	268	250	297	226	484	288	231	218	208	266
21	271	303	230	250	239	288	511	300	247	280	218	268
22	306	274	213	274	208	297	443	294	300	203	229	277
23	309	271	229	274	189	315	364	263	300	194	250	274
24	361	244	239	255	201	303	306	282	303	224	226	282
25	268	274	259	239	211	300	257	294	280	300	218	268
26	271	285	239	182	280	257	263	300	182	303	224	288
27	277	294	208	184	294	288	297	339	180	324	247	250
28	244	312	196	198	282	370	285	364	180	339	231	218
29	234	280	234	231	297	450	263	367	213	318		255
30	229	208	257	231	390	469	231	496	203	285		260
31		194		234	374		208		184	260		266
Total	7,575	8,341	7,552	7,760	7,587	10,248	13,514	9,053	7,794	6,521	6,674	8,163
Mean	252	269	252	250	245	342	436	302	251	210	238	263
Max.	361	342	285	315	390	666	855	496	477	339	288	324
Min.	171	184	196	182	180	226	208	239	180	124	186	218
Runoff - mcm.	654.393	720.662	652.492	670.464	655.516	885.427	1,167.609	782.179	673.401	563.414	576.633	705.283

WATER YEAR 1972 : Max. 855 Min. 124 Mean 276 Annual Runoff 8,707.478 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	-	36.85	873				

PING RIVER BASIN

Mae Ping River at Ban Tha Sala, Chiang Mai (P19A)

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 P19A
Elevation: + 275.682 m. (M.S.L.)

Gage Reading Frequency: Recordings

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: Fairly stable because of backwater effect and variable water surface slope, no shifting adjustment for flow computation.

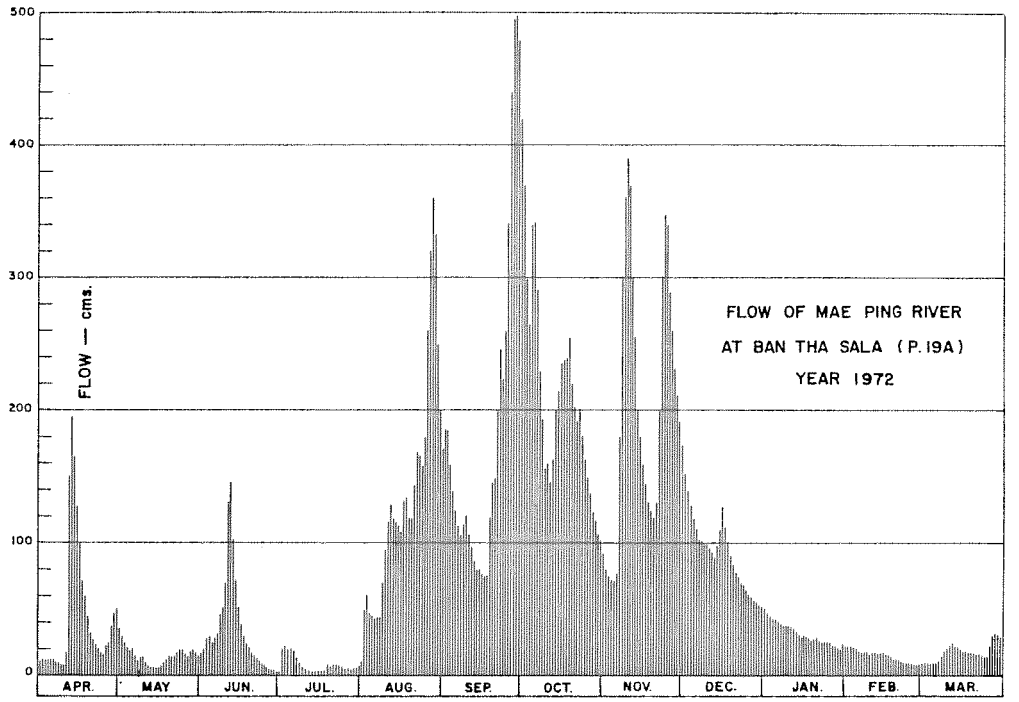
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 258 discharge measurements made in 1972. Upstream State diversions for irrigation of about 28,000 hectares at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	272.20	272.57	272.32	272.03	272.20	273.60	274.85	273.04	273.59	272.71	272.38	272.16
2	.21	.48	.34	.36	.67	.69	.51	272.98	.48	.68	.38	.18
3	.20	.43	.45	.39	.81	.69	.21	.94	.41	.67	.37	.18
4	.20	.37	.47	.35	.67	.51	.12	.92	.34	.64	.37	.17
5	.21	.33	.41	.36	.65	.38	.49	.90	.28	.63	.36	.17
6	272.23	272.36	272.45	272.34	272.64	273.29	274.50	272.95	273.22	272.62	272.35	272.17
7	.20	.28	.49	.26	.65	.22	.21	273.62	.16	.61	.32	.16
8	.17	.22	.67	.19	.66	.18	273.88	274.30	.15	.59	.32	.22
9	.14	.25	.70	.13	.85	.23	.67	.58	.13	.58	.31	.28
10	.12	.26	.87	.09	273.09	.28	.51	.73	.13	.58	.30	.33
11	272.30	272.21	273.34	272.06	273.23	273.20	273.53	274.64	273.11	272.56	272.31	272.38
12	273.48	.15	.44	.03	.33	.13	.45	.31	.08	.56	.31	.41
13	.75	.11	.19	.03	.27	.03	.57	.01	.05	.53	.30	.37
14	.57	.11	272.91	.03	.24	272.98	.78	273.79	.12	.52	.31	.37
15	.32	.10	.76	271.98	.22	.98	.84	.63	.19	.48	.31	.36
16	273.10	272.10	272.62	271.99	273.19	272.96	273.97	273.51	273.32	272.47	272.29	272.34
17	272.90	.14	.51	.99	.35	.94	.98	.39	.24	.47	.27	.33
18	.80	.19	.45	272.01	.37	.95	.99	.35	.14	.45	.26	.32
19	.65	.24	.37	.06	.26	273.25	274.07	.31	.08	.44	.24	.31
20	.53	.27	.32	.11	.26	.45	273.92	.26	.03	.45	.23	.30
21	272.45	272.27	272.28	272.15	273.46	273.47	273.78	273.35	272.99	272.46	272.21	272.29
22	.40	.25	.25	.14	.59	.80	.73	.72	.94	.44	.20	.28
23	.35	.30	.22	.14	.58	274.02	.78	274.28	.91	.42	.20	.27
24	.32	.35	.17	.13	.52	273.92	.68	.53	.89	.43	.18	.26
25	.29	.35	.14	.11	.64	274.04	.57	.49	.86	.43	.17	.25
26	272.38	272.30	272.10	272.09	274.08	274.73	273.48	274.28	272.84	272.42	272.18	272.36
27	.41	.27	.08	.08	.42	275.03	.41	.07	.81	.39	.15	.48
28	.53	.33	.07	.09	.59	.18	.31	273.95	.77	.38	.15	.51
29	.67	.34	.06	.08	.43	.19	.26	.82	.76	.37		.51
30	.70	.30	.04	.09	274.00	.09	.19	.68	.74	.35		.49
31		.29		.12	273.65		.12		.74	.41		.44
Mean	272.56	272.27	272.48	272.13	273.31	273.65	273.82	273.74	273.08	272.51	272.28	272.31
Max.	273.75	272.57	273.44	272.39	274.59	275.19	274.85	274.73	273.59	272.71	272.38	272.51
Min.	272.12	272.10	272.04	271.98	272.20	272.94	273.12	272.90	272.74	272.35	272.15	272.16

WATER YEAR 1972 : Max. 275.19 m. Min. 271.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	38	18	3.20	11	171	416	88	169	51	23	9.00
2	12	30	20	21	47	186	344	81	152	48	23	10
3	11	26	28	23	61	186	282	76	141	47	22	10
4	11	22	30	20	47	157	265	73	131	44	22	9.50
5	12	19	25	21	45	137	340	71	122	43	21	9.50
6	13	21	28	20	44	123	342	77	113	42	20	9.50
7	11	16	31	15	45	113	282	174	104	41	18	9.00
8	9.50	12	47	10	46	107	219	300	103	39	18	12
9	8.00	14	50	7.50	65	114	183	359	100	38	18	16
10	7.00	15	68	5.60	95	122	157	390	100	38	17	19
11	17	12	131	4.40	114	110	160	371	97	37	18	23
12	152	8.50	146	3.20	129	100	147	302	93	37	18	25
13	196	6.50	109	3.20	120	87	166	244	89	34	17	22
14	166	6.50	72	3.20	116	81	202	203	99	34	18	22
15	128	6.00	56	1.60	113	81	212	176	109	30	18	21
16	96	6.00	42	1.80	109	78	236	157	128	30	16	20
17	71	8.00	33	1.80	132	76	238	138	116	30	15	19
18	60	10	28	2.40	135	77	240	132	102	28	15	18
19	45	13	22	4.40	119	117	255	126	93	27	13	18
20	34	15	18	6.50	119	147	227	119	87	28	13	17
21	28	15	16	8.50	149	150	202	132	82	29	12	16
22	24	15	15	8.00	169	205	193	191	76	27	11	16
23	20	17	12	8.00	168	246	202	296	72	26	11	15
24	18	20	9.50	7.50	158	226	185	348	70	26	10	15
25	16	20	8.00	6.50	178	250	166	340	67	26	9.50	14
26	23	17	6.00	5.60	257	390	152	296	64	26	10	21
27	25	15	5.20	5.20	325	459	141	255	61	23	8.50	30
28	34	19	4.80	5.60	361	496	126	232	57	23	8.50	33
29	47	20	4.40	5.20	327	498	119	209	56	22		33
30	50	17	3.60	5.60	242	474	109	185	54	20		31
31		16		7.00	179		99		54	25		27
Total	1,355.50	495.50	1,086.50	251.50	4,225	5,765	6,607	6,141	2,961	1,019	443.50	569.50
Mean	45.2	16.0	36.2	8.11	136	192	213	205	95.5	32.9	15.8	18.4
Max.	196	38	146	23	361	498	416	390	169	51	23	33
Min.	7.00	6.00	3.60	1.60	11	76	99	71	54	20	8.50	9.00
Runoff - mcm.	117.115	42.811	93.874	21.730	365.040	498.096	570.849	530.582	255.830	88.042	38.318	49.205

WATER YEAR 1972 : Max. 498 Min. 1.60 Mean 84.7 Annual Runoff 2,671.488 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.28	24.00	275.20	501				

PING RIVER BASIN

Mae Rim at Mae Rim Bridge, Chiang Mai (P21)

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 because of backwater effect, no shifting adjustment for flow computation.

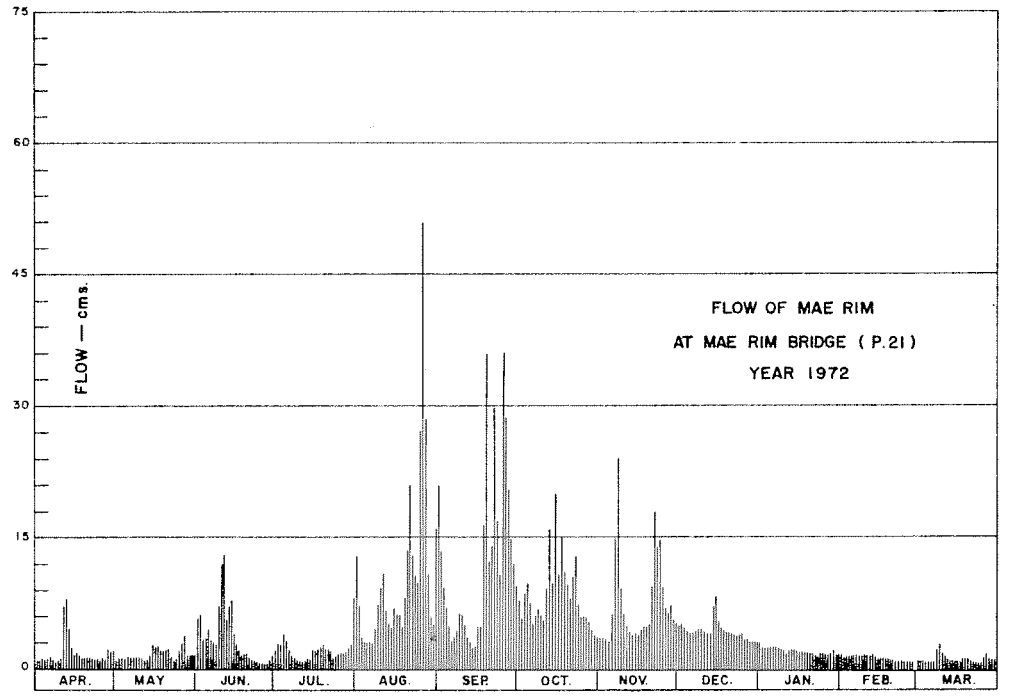
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 290 discharge measurements made during 1955-1959.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.33	320.32	320.80	320.51	321.22	321.50	321.00	320.65	320.75	320.58	320.45	320.34
2	.33	.39	.82	.59	320.82	.27	320.89	.64	.76	.53	.40	.32
3	.36	.39	.62	.57	.65	.03	.81	.64	.73	.52	.42	.34
4	.33	.38	.63	.67	.58	320.88	321.00	.61	.71	.52	.42	.32
5	.36	.40	.71	.61	.58	.77	.06	.60	.69	.54	.43	.32
6	320.40	320.41	320.61	320.53	320.59	320.58	320.85	320.90	320.69	320.54	320.44	320.32
7	.34	.39	.59	.44	.57	.67	.75	321.32	.69	.54	.44	.33
8	.30	.39	.57	.41	.71	.72	.83	.59	.70	.52	.42	.49
9	.32	.40	.80	.37	.95	.85	.89	.11	.71	.50	.43	.56
10	.37	.41	321.03	.35	321.01	.82	.82	320.86	.72	.51	.44	.46
11	320.89	320.38	321.22	320.33	321.12	320.74	320.79	320.77	320.69	320.44	320.44	320.43
12	.94	.34	320.78	.33	320.88	.64	321.05	.72	.67	.50	.42	.35
13	.75	.35	.88	.40	.76	.58	.34	.69	.67	.50	.44	.34
14	.53	.40	.94	.39	.73	.54	.08	.66	.89	.49	.41	.33
15	.43	.55	.72	.51	.89	.54	.31	.68	.96	.49	.38	.32
16	320.46	320.52	320.58	320.50	320.84	320.74	321.48	320.67	320.78	320.47	320.39	320.31
17	.45	.53	.50	.51	.84	.74	.13	.71	.73	.48	.39	.31
18	.39	.48	.43	.62	.73	321.43	.30	.74	.71	.48	.40	.37
19	.38	.48	.44	.57	.92	.92	.13	.73	.70	.47	.38	.37
20	.40	.48	.46	.52	321.27	.16	.04	.77	.69	.46	.37	.38
21	320.40	320.51	320.39	320.50	321.52	321.26	320.95	320.98	320.68	320.45	320.35	320.33
22	.37	.44	.35	.50	.22	.77	321.13	321.40	.67	.44	.34	.31
23	.35	.32	.34	.40	.10	.41	.21	.24	.65	.42	.35	.29
24	.37	.34	.31	.44	.06	.11	320.91	.30	.68	.45	.35	.31
25	.35	.50	.29	.45	.68	.59	.82	.05	.69	.46	.34	.26
26	320.37	320.56	320.27	320.45	322.26	321.91	320.83	320.88	320.63	320.46	320.34	320.37
27	.36	.65	.27	.45	321.73	.65	.82	.85	.62	.44	.33	.44
28	.50	.43	.28	.49	.11	.39	.78	.91	.60	.47	.32	.39
29	.47	.42	.40	.52	320.83	.25	.72	.81	.59	.50		.36
30	.35	.43	.45	.56	.73	.10	.67	.77	.59	.44		.34
31		.42		.90	321.34		.65		.58	.44		.34
Mean	320.43	320.43	320.58	320.50	321.01	321.08	320.97	320.87	320.70	320.48	320.39	320.36
Max.	320.94	320.65	321.22	320.90	322.26	321.92	321.48	321.59	320.96	320.58	320.45	320.56
Min.	320.30	320.32	320.27	320.33	320.58	320.54	320.65	320.60	320.58	320.42	320.32	320.26

WATER YEAR 1972 : Max. 322.26 m. Min. 320.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.98	0.92	5.80	2.39	13	21	8.90	3.80	5.10	3.02	1.85	1.04
2	0.98	1.34	6.10	3.11	6.10	14	7.15	3.68	5.24	2.57	1.40	0.92
3	1.16	1.34	3.44	2.93	3.80	9.47	5.95	3.68	4.82	2.48	1.58	1.04
4	0.98	1.28	3.56	4.04	3.02	7.00	8.90	3.32	4.54	2.48	1.58	0.92
5	1.16	1.40	4.54	3.32	3.02	5.38	10	3.20	4.28	2.66	1.67	0.92
6	1.40	1.49	3.32	2.57	3.11	3.02	6.55	7.30	4.28	2.66	1.76	0.92
7	1.04	1.34	3.11	1.76	2.93	4.04	5.10	16	4.28	2.66	1.76	0.98
8	0.80	1.34	2.93	1.49	4.54	4.68	6.25	24	4.40	2.48	1.58	2.21
9	0.92	1.40	5.80	1.22	8.10	6.55	7.15	11	4.54	2.30	1.67	2.84
10	1.22	1.49	9.47	1.10	9.09	6.10	6.10	6.70	4.68	2.39	1.76	1.94
11	7.15	1.28	13	0.98	11	4.96	5.66	5.38	4.28	1.76	1.76	1.67
12	7.94	1.04	5.52	0.98	7.00	3.68	9.85	4.68	4.04	2.30	1.58	1.10
13	5.10	1.10	7.00	1.40	5.24	3.02	16	4.28	4.04	2.30	1.76	1.04
14	2.57	1.40	7.94	1.34	4.82	2.66	10	3.92	7.15	2.21	1.49	0.98
15	1.67	2.75	4.68	2.39	7.15	2.66	15	4.16	8.26	2.21	1.28	0.92
16	1.94	2.48	3.02	2.30	6.40	4.96	20	4.04	5.52	2.03	1.34	0.86
17	1.85	2.57	2.30	2.39	6.40	4.96	11	4.54	4.82	2.12	1.34	0.86
18	1.34	2.12	1.67	3.44	4.82	19	15	4.96	4.54	2.12	1.40	1.22
19	1.28	2.12	1.76	2.93	7.62	36	11	4.82	4.40	2.03	1.28	1.22
20	1.40	2.12	1.94	2.48	14	12	9.66	5.38	4.28	1.94	1.22	1.28
21	1.40	2.39	1.34	2.30	21	14	8.10	8.58	4.16	1.85	1.10	0.98
22	1.22	1.76	1.10	2.30	13	30	11	18	4.04	1.76	1.04	0.86
23	1.10	0.92	1.04	1.40	11	18	13	14	3.80	1.58	1.10	0.76
24	1.22	1.04	0.86	1.76	10	11	7.46	15	4.16	1.85	1.10	0.86
25	1.10	2.30	0.76	1.85	27	24	6.10	9.85	4.28	1.94	1.04	0.64
26	1.22	2.84	0.68	1.85	51	36	6.25	7.00	3.56	1.94	1.04	1.22
27	1.16	3.80	0.68	1.85	29	26	6.10	6.55	3.44	1.76	0.98	1.76
28	2.30	1.67	0.72	2.21	11	17	5.52	7.46	3.20	2.03	0.92	1.34
29	2.03	1.58	1.40	2.48	6.25	14	4.68	5.95	3.11	2.30		1.16
30	1.10	1.67	1.85	2.84	4.82	11	4.04	5.38	3.11	1.76		1.04
31		1.58		7.30	16		3.80		3.02	1.76		1.04
Total	56.73	53.87	107.33	72.70	331.23	376.14	271.27	226.61	137.37	67.25	39.38	36.54
Mean	1.89	1.74	3.58	2.34	10.7	12.5	8.75	7.55	4.43	2.17	1.41	1.18
Max.	7.94	3.80	13	7.30	51	36	20	24	8.26	3.02	1.85	2.84
Min.	0.80	0.92	0.68	0.98	3.02	2.66	3.80	3.20	3.02	1.58	0.92	0.64
Runoff - MCM.	4.902	4.654	9.273	6.281	28.618	32.498	23.438	19.579	11.869	5.811	3.403	3.157

WATER YEAR 1972 : Max. 51 Min. 0.64 Mean 4.87 Annual Runoff 153.483 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.26	06.00	322.42	59				

PING RIVER BASIN

Mae Khan at Mae Khan Bridge, Chiang Mai (P23)

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 because of backwater effect, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

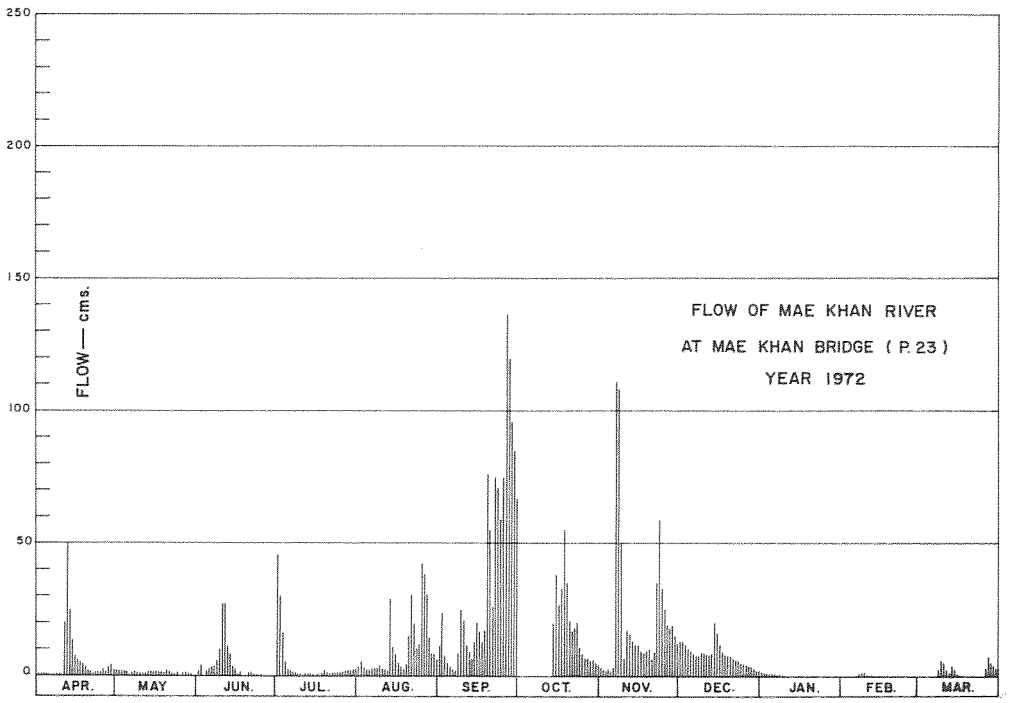
General Description: Records fair. Stage-discharge relation defined by 20 discharge measurements made in 1972.

Remarks: No records on period October 1 - 13, 1972. Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.72	286.87	286.76	287.61	286.95	287.19		286.92	287.16	286.83	286.72	286.46
2	.72	.86	.94	.48	.99	.33		.89	.16	.80	.70	.50
3	.68	.86	.71	.25	.92	.04		.87	.13	.80	.75	.48
4	.62	.86	.88	286.99	.88	286.97		.88	.11	.79	.72	.46
5	.64	.84	.90	.89	.87	.92		.86	.09	.78	.72	.48
6	286.67	286.77	286.92	286.87	286.91	286.88		286.93	287.07	286.78	286.75	286.47
7	.70	.82	.93	.82	.91	.87		288.25	.04	.75	.76	.47
8	.67	.83	.99	.77	.92	287.11		.22	.05	.73	.82	.71
9	.69	.81	287.10	.73	.93	.36		287.30	.07	.72	.80	287.02
10	.75	.79	.38	.72	.90	.28		.03	.07	.73	.75	286.99
11	287.30	286.77	287.38	286.70	286.90	287.14		287.23	287.06	286.72	286.72	286.89
12	.67	.79	.14	.76	.84	.07		.21	.05	.70	.72	.82
13	.34	.83	.06	.73	287.41	.03		.17	.08	.69	.72	.94
14	.18	.85	286.93	.72	.12	.20	287.27	.13	.27	.69	.72	.89
15	.04	.82	.85	.71	.06	.28	.52	.14	.21	.69	.68	.76
16	287.01	286.85	286.78	286.69	286.98	287.23	287.39	247.09	287.15	286.68	286.67	286.62
17	286.98	.82	.82	.79	.92	.15	.46	.06	.09	.68	.67	.59
18	.98	.84	.70	.81	.90	.24	.72	.09	.06	.67	.67	.59
19	.92	.82	.60	.85	.97	.93	.52	.10	.05	.68	.65	.67
20	.85	.87	.82	.82	287.16	.56	.33	.01	.05	.67	.62	.79
21	286.84	286.83	286.79	286.82	287.42	287.39	287.23	287.07	287.03	286.68	286.56	286.70
22	.80	.80	.75	.82	.25	.92	.22	.43	.01	.68	.52	.63
23	.81	.79	.70	.82	.10	.89	.27	.76	.01	.67	.53	.61
24	.85	.80	.65	.82	.14	.75	.12	.47	286.98	.63	.52	.60
25	.84	.76	.62	.81	.58	.94	.07	.38	.97	.60	.50	.62
26	286.90	286.80	286.61	286.82	287.54	288.45	287.02	287.28	286.97	286.58	286.51	286.90
27	.82	.81	.58	.84	.42	.30	.02	.25	.95	.56	.50	287.05
28	.92	.79	.55	.85	.18	.12	.01	.26	.94	.52	.47	286.98
29	.95	.77	.61	.85	.07	.06	.02	.23	.92	.52		.95
30	.88	.73	.58	.85	.06	287.84	286.98	.13	.89	.46		.90
31		.71		.88	286.97		.94		.86	.37		.87
Mean	286.89	286.81	286.83	286.87	287.07	287.45		287.22	287.05	286.67	286.66	286.72
Max.	287.67	286.87	287.38	287.61	287.54	288.45		288.25	287.27	286.83	286.82	287.05
Min.	286.62	286.71	286.55	286.69	286.87	286.87		286.87	286.86	286.37	286.47	286.47

WATER YEAR 1972 : Max. 288.45 m. Min. 286.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	2.05	0.60	45	4.00	15		3.10	13	1.45	0.20	0.00
2	0.20	1.90	3.70	34	5.20	23		2.35	13	1.00	0.00	0.00
3		1.90	0.10	18	3.10	7.30		2.05	12	1.00	0.50	0.00
4		1.90	2.20	5.20	2.20	4.60		2.20	10	0.90	0.20	0.00
5		1.60	2.50	2.35	2.05	3.10		1.90	9.55	0.80	0.20	0.00
6		0.70	3.10	2.05	2.80	2.20		3.40	8.65	0.80	0.50	0.00
7		1.30	3.40	1.30	2.80	2.05		111	7.30	0.50	0.60	0.00
8		1.45	5.20	0.70	3.10	10		108	7.75	0.30	1.30	0.10
9		1.15	10	0.30	3.40	25		21	8.65	0.20	1.00	6.40
10	0.50	0.90	27	0.20	2.50	20		6.85	8.65	0.30	0.50	5.20
11	21	0.70	27	0.00	2.50	12		17	8.20	0.20	0.20	2.35
12	50	0.90	12	0.60	1.60	8.65		16	7.75	0.00	0.20	1.30
13	24	1.45	8.20	0.30	29	6.85		14	9.10	0.00	0.20	3.70
14	14	1.75	3.40	0.20	11	15	20	12	20	0.00	0.20	2.35
15	7.30	1.30	1.75	0.10	8.20	20	38	12	16	0.00	0.00	0.60
16	5.95	1.75	0.80	0.00	4.90	17	27	9.55	13	0.00	0.00	0.00
17	4.90	1.30	1.30	0.90	3.10	13	33	8.20	9.55	0.00	0.00	0.00
18	4.90	1.60	0.00	1.15	2.50	18	55	9.55	8.20	0.00	0.00	0.00
19	3.10	1.30	0.00	1.75	4.60	76	38	10	7.75	0.00	0.00	0.00
20	1.75	2.05	1.30	1.30	13	41	23	5.95	7.75	0.00	0.00	0.00
21	1.60	1.45	0.90	1.30	30	27	17	8.65	6.85	0.00	0.00	0.00
22	1.00	1.00	0.50	1.30	18	75	17	30	5.95	0.00	0.00	0.00
23	1.15	0.90		1.30	10	71	20	59	5.95	0.00	0.00	0.00
24	1.75	1.00		1.30	12	58	11	34	4.90	0.00	0.00	0.00
25	1.60	0.60		1.15	42	77	8.65	27	4.60	0.00	0.00	0.00
26	2.50	1.00		1.30	39	136	6.40	20	4.60	0.00	0.00	2.50
27	1.30	1.15		1.60	30	117	6.40	18	4.00	0.00	0.00	7.75
28	3.10	0.90		1.75	14	96	5.95	19	3.70	0.00	0.00	4.90
29	4.00	0.70		1.75	8.65	90	6.40	17	3.10	0.00		4.00
30	2.20	0.30		1.75	8.20	66	4.90	12	2.35	0.00		2.50
31		0.10		2.20	4.60		3.70		1.90	0.00		2.05
Total	158.00	38.05	113.65	132.10	328.00	1,152.75		620.75	253.75	7.45	5.80	45.70
Mean	5.27	1.23	3.79	4.26	10.6	38.4	21.8	20.7	8.18	0.24	0.21	1.47
Max.	50	2.05	27	45	39	136	55	111	20	1.45	1.30	7.75
Min.	0.00	0.10	0.00	0.00	2.05	2.05	3.70	2.05	1.90	0.00	0.00	0.00
Runoff - mcm.	13.651	3.287	9.819	11.413	28.339	99.598		53.633	21.924	0.644	0.501	3.948

WATER YEAR 1972 : Max. 136 Min. 0.00 Mean 10.6 Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.26	09.00	288.62	157				

PING RIVER BASIN

Mae Klang River at Mae Klang Bridge, Chiang Mai (P24)

Location: Lat. 18°-23'-15" N., Long. 98°-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. - P24

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: 1955-1973
Rated by Float: -
Rated by Current Meter: 1955-1973

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

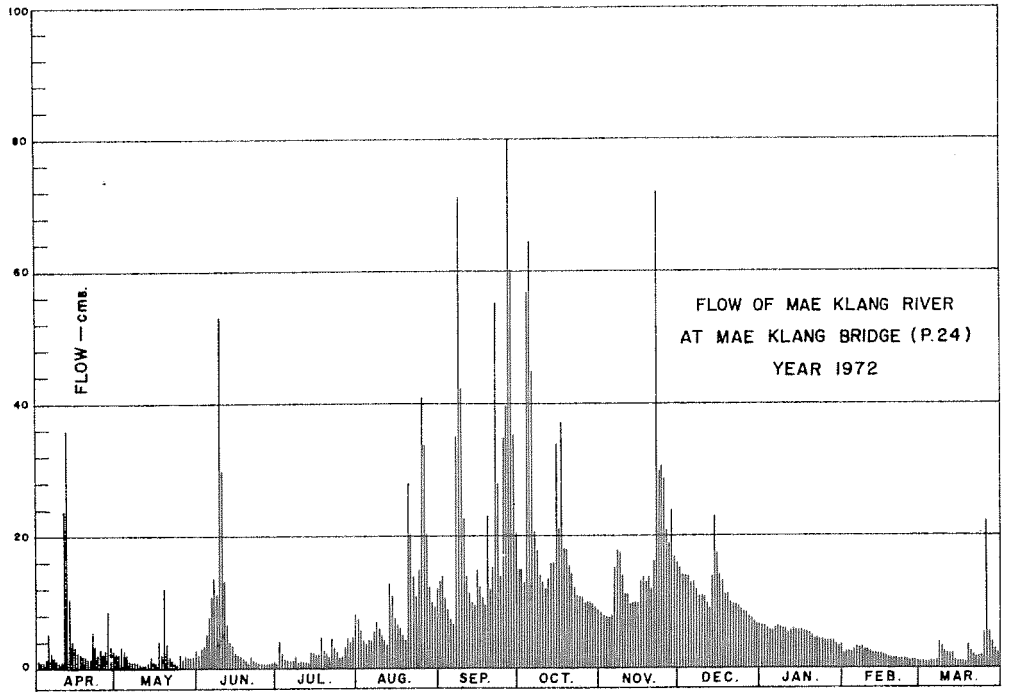
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 21 discharge measurements made in 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	0.59	0.58	0.49	0.82	1.04	1.07	0.85	1.06	0.78	0.57	0.51
2	.49	.58	.64	.69	.74	.03	.07	.83	.05	.78	.61	.50
3	.49	.63	.66	.55	.67	0.89	0.99	.82	.04	.76	.60	.50
4	.48	.60	.73	.52	.67	.87	1.93	.83	.02	.75	.60	.50
5	.73	.54	.85	.52	.70	.82	.99	.85	.01	.75	.61	.50
6	0.59	0.50	0.96	0.53	0.70	0.79	1.44	1.07	0.99	0.77	0.64	0.50
7	.54	.49	1.04	.52	.79	1.52	.20	.15	.96	.79	.63	.50
8	.49	.48	0.94	.56	.81	2.08	.14	.15	.92	.76	.63	.67
9	.48	.47	1.82	.50	.76	1.48	.05	.04	.93	.76	.62	.62
10	.49	.46	.21	.50	.71	.15	.00	0.95	.92	.76	.61	.58
11	1.54	0.46	0.93	0.49	0.69	1.00	0.98	0.92	0.91	0.74	0.61	0.57
12	.20	.46	.76	.50	.65	0.96	1.03	.89	.87	.75	.59	.58
13	0.82	.52	.66	.50	1.00	.91	.09	.90	1.07	.76	.58	.57
14	.69	.54	.64	.60	0.92	.89	.09	.90	.26	.75	.57	.50
15	.65	.49	.60	.58	.81	1.08	.49	.91	.11	.75	.57	.49
16	0.59	0.49	0.56	0.57	0.79	0.98	1.22	1.04	1.02	0.75	0.56	0.50
17	.57	.69	.55	.57	.75	.95	.56	.03	.00	.75	.55	.49
18	.55	.56	.53	.74	.71	.89	.14	.00	0.95	.74	.54	.49
19	.54	.97	.51	.61	.69	1.26	.15	.04	.93	.73	.53	.65
20	.53	.66	.49	.57	1.36	0.98	.06	0.97	.89	.71	.52	.59
21	0.55	0.55	0.55	0.56	1.15	1.11	1.04	1.12	0.89	0.70	0.53	0.56
22	.75	.51	.50	.70	.04	.86	0.97	2.10	.88	.70	.53	.55
23	.63	.47	.50	.62	0.93	.10	.95	1.41	.87	.69	.52	.54
24	.56	.46	.49	.58	1.12	.02	.94	.44	.86	.68	.52	.56
25	.63	.58	.48	.56	.62	.55	.93	.35	.85	.68	.52	.56
26	0.58	0.52	0.48	0.56	1.43	1.63	0.91	1.18	0.84	0.68	0.52	1.23
27	.62	.56	.48	.66	.11	2.21	.91	.16	.83	.68	.52	0.75
28	.86	.55	.50	.71	0.98	1.74	.90	.27	.82	.68	.51	.68
29	.66	.54	.49	.68	.90	.36	.89	.13	.80	.66		.62
30	.59	.56	.49	.70	.88	.19	.87	.09	.79	.65		.59
31		.61		.85	1.01		.86		.78	.65		.57
Mean	0.65	0.55	0.69	0.59	0.90	1.21	1.12	1.08	0.94	0.73	0.57	0.58
Max.	1.54	0.97	1.82	0.85	1.62	2.21	1.99	2.10	1.26	0.79	0.64	1.23
Min.	0.48	0.46	0.48	0.49	0.65	0.79	0.86	0.82	0.78	0.65	0.51	0.49

WATER YEAR 1972 : Max. 2.21 m. Min. 0.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	2.35	2.20	0.90	7.60	14	15	8.50	15	6.50	2.05	1.15
2	0.90	2.20	3.30	4.30	5.50	14	15	7.90	14	6.50	2.70	1.00
3	0.90	3.10	3.70	1.75	3.90	9.70	13	7.60	14	6.00	2.50	1.00
4	0.80	2.50	5.25	1.30	3.90	9.10	60	7.90	14	5.75	2.50	1.00
5	5.25	1.60	8.50	1.30	4.50	7.60	64	8.50	13	5.75	2.70	1.00
6	2.35	1.00	12	1.45	4.50	6.75	31	15	13	6.25	3.30	1.00
7	1.60	0.90	14	1.30	6.75	35	20	18	12	6.75	3.10	1.00
8	0.90	0.80	11	1.90	7.30	71	18	18	11	6.00	3.10	3.90
9	0.80	0.70	53	1.00	6.00	33	14	14	11	6.00	2.90	2.90
10	0.90	0.60	21	1.00	4.75	18	13	11	11	6.00	2.70	2.20
11	36	0.60	11	0.90	4.30	13	12	11	10	5.50	2.50	2.05
12	20	0.60	6.00	1.00	3.50	12	14	9.70	9.10	5.75	2.35	2.20
13	7.60	1.30	3.70	1.00	13	10	16	10	15	6.00	2.20	2.05
14	4.30	1.60	3.30	2.50	11	9.70	16	10	23	5.75	2.05	1.00
15	3.50	0.90	2.50	2.20	7.30	15	34	10	16	5.75	2.05	0.90
16	2.35	0.90	1.90	2.05	6.75	12	21	14	14	5.75	1.90	1.00
17	2.05	4.30	1.75	2.05	5.75	11	37	14	13	5.75	1.75	0.90
18	1.75	1.90	1.45	5.50	4.75	9.70	18	13	11	5.50	1.60	0.90
19	1.60	12	1.15	2.70	4.30	23	18	14	11	5.25	1.45	3.50
20	1.45	3.70	0.90	2.05	28	12	15	12	9.70	4.75	1.30	2.35
21	1.75	1.75	1.75	1.90	18	16	14	17	9.70	4.50	1.45	1.90
22	5.75	1.15	1.00	4.50	14	55	12	72	9.40	4.50	1.45	1.75
23	3.10	0.70	1.00	2.90	11	16	11	30	9.10	4.30	1.30	1.60
24	1.90	0.60	0.90	2.20	17	14	11	31	8.80	4.10	1.30	1.90
25	3.10	2.20	0.80	1.90	41	37	11	27	8.50	4.10	1.30	1.90
26	2.20	1.30	0.80	1.90	31	41	10	20	8.20	4.10	1.30	22
27	2.90	1.90	0.80	3.70	16	80	10	19	7.90	4.10	1.30	5.75
28	8.80	1.75	1.00	4.75	12	48	10	24	7.60	4.10	1.15	4.10
29	3.70	1.60	0.90	4.10	10	28	9.70	17	7.00	3.70		2.90
30	2.35	1.90	0.90	4.50	9.40	20	9.10	16	6.75	3.50		2.35
31		2.70		8.50	13		8.80		6.50	3.50		2.05
Total	131.45	61.10	177.45	79.00	335.75	700.55	580.60	507.10	349.25	161.75	57.25	81.20
Mean	4.38	1.97	5.91	2.55	10.8	23.3	18.7	16.9	11.3	5.22	2.04	2.62
Max.	36	12	53	8.50	41	80	64	72	23	6.75	3.30	22
Min.	0.80	0.60	0.80	0.90	3.50	6.75	8.80	7.60	6.50	3.50	1.15	0.90
Runoff - mcm.	11.357	5.279	15.332	6.826	29.009	60.527	50.164	43.813	30.175	13.975	4.946	7.016

WATER YEAR 1972 : Max. 80 Min. 0.60 Mean 8.83 Annual Runoff 278.420 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.27	09.00	2.33	89				

PING RIVER BASIN

Khlong Suan Mak at Below Tha Kradan Weir, Kamphaeng Phet (P26A)

Location: Lat. 16°-26'-57" N., Long. 99°-26'-27" E., on right bank about 400 meters downstream from P26, Amphoe Muang, Kamphaeng Phet.

Drainage Area: 967 Sq.km.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. - P26A

Location: Near automatic gage building.
Elevation: + 6.144 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: 1972-1975
Rated by Float: -
Rated by Current Meter: 1972-1975

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

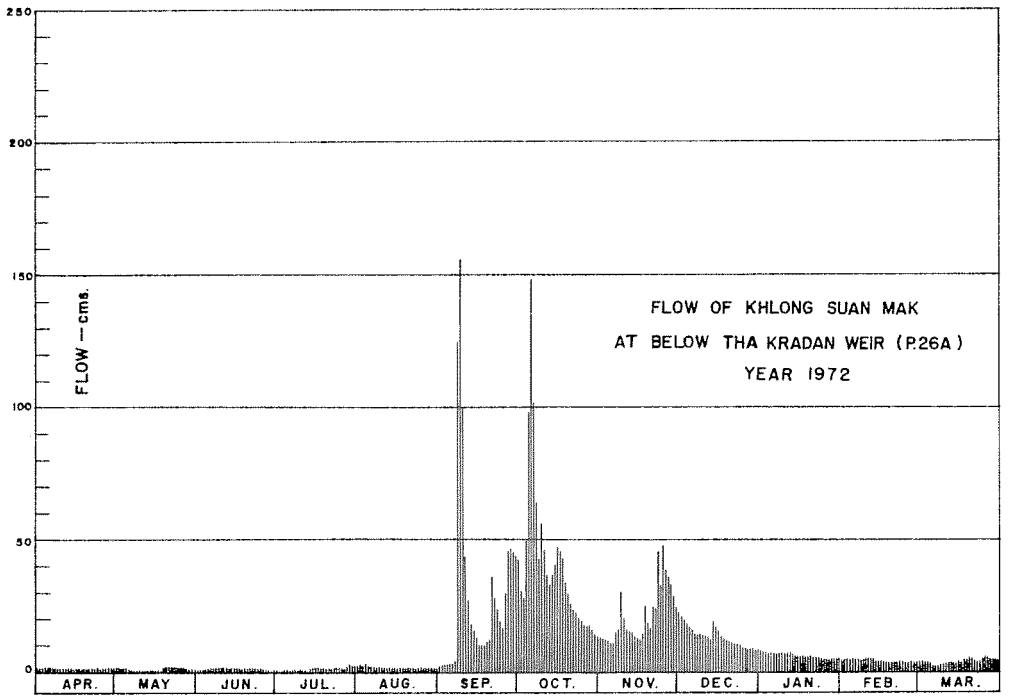
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 45 by discharge measurements made in 1972. Flow regulated by Tha Kra Dan Weir which built by the local residents.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.39	0.41	0.34	0.34	0.68	0.38	1.95	0.86	1.25	0.65	0.37	0.23
2	.38	.40	.34	.34	.68	.40	.73	.84	.21	.64	.36	.23
3	.38	.39	.35	.34	.62	.42	.63	.80	.16	.58	.37	.23
4	.38	.38	.36	.34	.59	.41	.93	.77	.09	.58	.36	.23
5	.38	.39	.39	.33	.56	.42	3.09	.74	.05	.58	.36	.23
6	0.39	0.38	0.42	0.33	0.55	0.44	3.56	0.78	1.01	0.57	0.35	0.21
7	.40	.36	.45	.33	.53	.48	2.63	1.00	0.97	.57	.35	.18
8	.39	.35	.46	.33	.52	3.22	.10	.02	.95	.58	.35	.19
9	.38	.34	.45	.32	.50	.82	1.82	.34	.97	.57	.34	.20
10	.37	.34	.48	.33	.47	2.49	2.04	.10	.98	.55	.34	.21
11	0.38	0.34	0.50	0.33	0.44	1.92	1.77	0.99	0.94	0.54	0.33	0.22
12	.38	.33	.47	.33	.42	.57	.66	.98	.91	.53	.33	.20
13	.40	.32	.43	.32	.41	.33	.58	.93	.89	.51	.33	.19
14	.47	.32	.42	.38	.41	.17	.67	.87	1.18	.50	.33	.19
15	.48	.33	.41	.52	.42	.07	.79	.84	.03	.50	.31	.18
16	0.46	0.33	0.40	0.50	0.42	0.99	1.93	0.86	0.96	0.49	0.30	0.21
17	.50	.34	.39	.46	.40	.92	.92	1.01	.92	.47	.30	.27
18	.54	.34	.40	.46	.43	.88	.80	.38	.88	.46	.28	.33
19	.50	.37	.39	.48	.42	1.06	.55	.14	.85	.46	.26	.43
20	.47	.40	.38	.46	.41	.77	.44	.06	.82	.45	.25	.43
21	0.44	0.42	0.38	0.42	0.40	1.84	1.34	1.33	0.81	0.45	0.25	0.37
22	.43	.44	.38	.39	.40	.59	.25	.37	.79	.44	.25	.31
23	.42	.45	.37	.38	.40	.46	.20	.88	.76	.41	.25	.29
24	.41	.45	.37	.37	.41	.31	.12	.64	.75	.41	.24	.33
25	.40	.43	.37	.37	.41	.21	.06	.91	.73	.41	.24	.44
26	0.39	0.42	0.37	0.41	0.41	1.61	1.02	1.73	0.72	0.40	0.24	0.50
27	.39	.42	.35	.48	.43	2.06	.02	.69	.70	.39	.23	.40
28	.42	.41	.34	.59	.43	.16	.01	.61	.69	.39	.23	.34
29	.42	.40	.34	.67	.40	1.99	0.97	.44	.68	.38		.31
30	.42	.37	.34	.67	.39	2.07	.92	.33	.67	.36		.29
31		.34		.68	.38		.89		.66	.37		.27
Mean	0.42	0.38	0.39	0.42	0.46	1.41	1.66	1.17	0.90	0.49	0.30	0.28
Max.	0.54	0.45	0.50	0.68	0.68	3.82	3.56	1.91	1.25	0.65	0.37	0.50
Min.	0.37	0.32	0.34	0.32	0.38	0.38	0.89	0.74	0.66	0.36	0.23	0.18

WATER YEAR 1972 : Max. 3.82 m. Min. 0.32 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.94	1.09	0.63	0.63	4.04	0.88	35	11	20	7.15	3.07	1.67
2	0.88	1.00	0.63	0.63	4.04	1.00	28	10	19	6.98	2.96	1.67
3	0.88	0.94	0.69	0.63	3.26	1.18	25	9.80	18	6.00	3.07	1.67
4	0.88	0.88	0.75	0.63	2.89	1.09	35	9.26	16	6.00	2.96	1.67
5	0.88	0.94	0.94	0.57	2.56	1.00	98	8.72	15	6.00	2.96	1.67
6	0.94	0.88	1.18	0.57	2.45	1.36	135	9.44	14	5.85	2.85	1.49
7	1.00	0.75	1.45	0.57	2.23	1.72	77	14	13	5.85	2.85	1.24
8	0.94	0.69	1.54	0.57	2.12	94	51	14	13	6.00	2.85	1.32
9	0.88	0.63	1.45	0.50	1.90	135	39	23	13	5.85	2.74	1.40
10	0.81	0.63	1.72	0.57	1.63	57	48	16	13	5.55	2.74	1.49
11	0.88	0.63	1.90	0.57	1.36	34	37	13	12	5.40	2.63	1.58
12	0.88	0.57	1.63	0.57	1.18	23	33	13	12	5.25	2.63	1.40
13	1.00	0.50	1.27	0.50	1.09	16	30	12	11	4.95	2.63	1.32
14	1.63	0.50	1.18	0.88	1.09	12	33	11	18	4.80	2.63	1.32
15	1.72	0.57	1.09	2.12	1.18	10	38	10	14	4.80	2.41	1.24
16	1.54	0.57	1.00	1.90	1.18	8.92	43	11	13	4.66	2.30	1.49
17	1.90	0.63	0.94	1.54	1.00	7.66	43	14	12	4.38	2.30	2.03
18	2.34	0.63	1.00	1.54	1.27	7.00	38	24	11	4.24	2.12	2.63
19	1.90	0.81	0.94	1.72	1.18	10	29	17	11	4.24	1.94	3.82
20	1.63	1.00	0.88	1.54	1.09	29	26	15	10	4.10	1.85	3.82
21	1.36	1.18	0.88	1.18	1.00	31	23	22	9.99	4.10	1.85	3.07
22	1.27	1.36	0.88	0.94	1.00	24	20	23	9.62	3.96	1.85	2.41
23	1.18	1.45	0.81	0.88	1.00	20	19	41	9.08	3.54	1.85	2.21
24	1.09	1.45	0.81	0.81	1.09	16	17	32	8.90	3.54	1.76	2.63
25	1.00	1.27	0.81	0.81	1.09	13	15	43	8.54	3.54	1.76	3.96
26	0.94	1.18	0.81	1.09	1.09	24	14	36	8.36	3.40	1.76	4.80
27	0.94	1.18	0.69	1.72	1.27	39	14	34	8.00	3.29	1.67	3.40
28	1.18	1.09	0.63	2.89	1.27	43	14	31	7.83	3.29	1.67	2.74
29	1.18	1.00	0.63	3.91	1.00	40	13	26	7.66	3.18		2.41
30	1.18	0.81	0.63	3.91	0.94		12	22	7.49	2.96		2.21
31		0.63		4.04	0.88		11		7.32	3.07		2.03
Total	35.77	27.44	30.39	40.93	50.37	738.81	1,093	575.22	370.79	145.92	66.66	67.81
Mean	1.19	0.88	1.01	1.32	1.62	24.6	35.2	19.2	12.0	4.71	2.38	2.19
Max.	2.34	1.45	1.90	4.04	4.04	135	135	43	20	7.15	3.07	4.80
Min.	0.81	0.50	0.63	0.50	0.88	0.88	11	8.72	7.32	2.96	1.67	1.24
Runoff - mcm.	3.090	2.371	2.626	3.536	4.352	63.833	94.435	49.699	32.036	12.607	5.759	5.859

WATER YEAR 1972 : Max. 135 Min. 0.50 Mean 8.88 Annual Runoff 280.205 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8	22.00	5.19	302				

PING RIVER BASIN

Huai Mae Nai at Ban Mae Nai, Chiang Mai (P27A)

Location: Lat. 18°-53'-18" N., Long. 98°-55'-00" E., on left bank about 3 kilometers upstream from station P27, 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.27A

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.

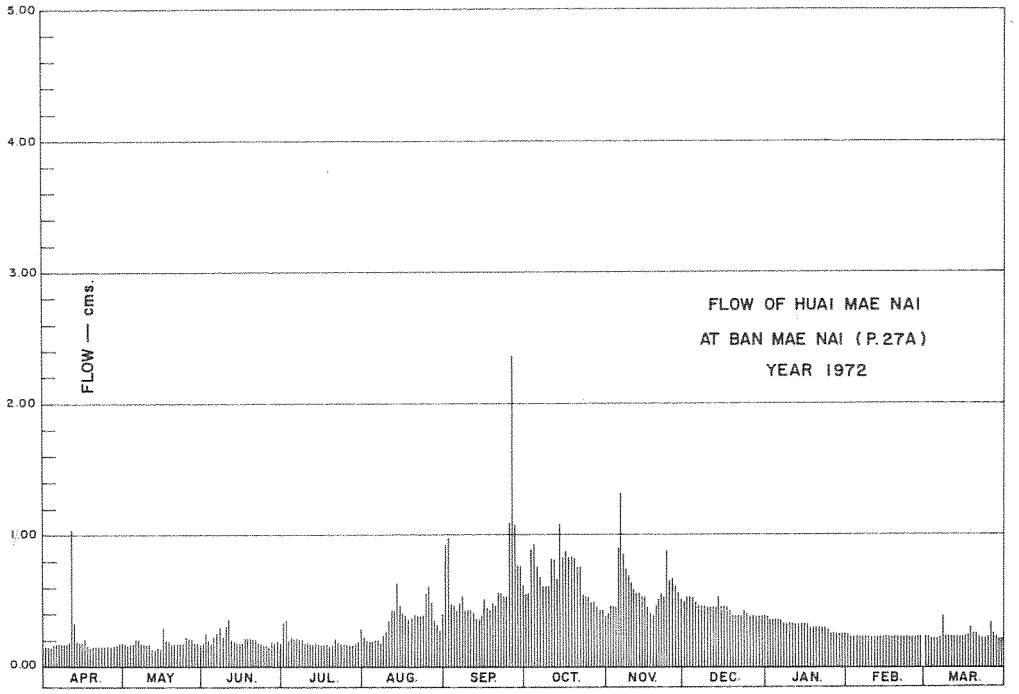
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 36 discharge measurements made in 1972. Flow regulated by a series of small diversion dams which built by the local residents.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	0.26	0.31	0.33	0.30	0.47	0.40	0.35	0.39	0.35	0.31	0.30
2	.25	.26	.28	.34	.28	.48	.40	.37	.39	.34	.30	.30
3	.25	.26	.27	.28	.28	.38	.46	.37	.39	.34	.30	.29
4	.26	.26	.30	.30	.28	.37	.47	.37	.38	.34	.30	.29
5	.26	.28	.31	.29	.28	.36	.46	.37	.38	.34	.30	.29
6	0.26	0.29	0.31	0.29	0.28	0.38	0.43	0.53	0.37	0.34	0.30	0.29
7	.26	.27	.32	.29	.27	.39	.42	.46	.37	.33	.30	.30
8	.26	.26	.30	.28	.30	.36	.41	.46	.37	.33	.30	.35
9	.26	.26	.32	.27	.31	.36	.41	.43	.37	.33	.30	.30
10	.27	.27	.34	.27	.33	.36	.41	.42	.37	.33	.30	.30
11	0.49	0.26	0.29	0.27	0.36	0.36	0.45	0.41	0.37	0.33	0.30	0.30
12	.33	.24	.28	.26	.36	.35	.45	.40	.37	.33	.30	.30
13	.28	.24	.27	.27	.41	.34	.42	.40	.39	.33	.30	.30
14	.27	.25	.27	.27	.39	.34	.50	.39	.37	.33	.30	.30
15	.27	.24	.27	.26	.36	.36	.48	.39	.37	.33	.30	.30
16	0.29	0.32	0.29	0.26	0.35	0.39	0.45	0.37	0.37	0.33	0.30	0.30
17	.26	.28	.29	.26	.35	.36	.46	.36	.37	.32	.30	.31
18	.25	.28	.29	.26	.33	.36	.45	.35	.36	.32	.30	.32
19	.25	.26	.29	.25	.34	.38	.45	.35	.35	.32	.30	.31
20	.25	.26	.29	.26	.35	.37	.45	.38	.35	.32	.30	.31
21	0.25	0.26	0.28	0.29	0.35	0.40	0.44	0.39	0.35	0.32	0.30	0.30
22	.25	.27	.26	.27	.35	.40	.44	.40	.35	.32	.30	.29
23	.25	.27	.26	.26	.35	.39	.40	.39	.36	.32	.30	.29
24	.25	.27	.26	.26	.38	.39	.39	.46	.36	.32	.30	.29
25	.25	.30	.25	.26	.41	.49	.39	.42	.35	.31	.30	.30
26	0.25	0.29	0.27	0.26	0.40	0.65	0.38	0.42	0.35	0.31	0.30	0.33
27	.25	.29	.28	.26	.36	.50	.38	.41	.35	.31	.30	.31
28	.25	.27	.27	.26	.33	.44	.37	.40	.35	.31	.30	.30
29	.26	.27	.28	.27	.32	.44	.36	.39	.35	.31		.29
30	.26	.27	.27	.28	.31	.42	.36	.38	.35	.31		.29
31		.27		.32	.38		.35		.35	.31		.29
Mean	0.27	0.27	0.28	0.27	0.34	0.40	0.42	0.40	0.36	0.32	0.30	0.30
Max.	0.49	0.32	0.34	0.34	0.41	0.65	0.50	0.53	0.39	0.35	0.31	0.35
Min.	0.25	0.24	0.25	0.25	0.27	0.34	0.35	0.35	0.35	0.31	0.30	0.29

WATER YEAR 1972 : Max. 0.65 m. Min. 0.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.15	0.17	0.26	0.33	0.23	0.93	0.56	0.39	0.53	0.39	0.26	0.23
2	0.15	0.17	0.20	0.36	0.20	0.98	0.56	0.46	0.53	0.36	0.23	0.23
3	0.15	0.17	0.18	0.20	0.20	0.49	0.88	0.46	0.53	0.36	0.23	0.21
4	0.17	0.17	0.23	0.23	0.20	0.46	0.93	0.46	0.49	0.36	0.23	0.21
5	0.17	0.20	0.26	0.21	0.20	0.43	0.88	0.46	0.49	0.36	0.23	0.21
6	0.17	0.21	0.26	0.21	0.20	0.49	0.72	1.32	0.46	0.36	0.23	0.21
7	0.17	0.18	0.30	0.21	0.18	0.53	0.67	0.88	0.46	0.33	0.23	0.23
8	0.17	0.17	0.23	0.20	0.23	0.43	0.61	0.77	0.46	0.33	0.23	0.39
9	0.17	0.17	0.30	0.18	0.26	0.43	0.61	0.72	0.46	0.33	0.23	0.23
10	0.18	0.18	0.36	0.18	0.33	0.43	0.61	0.67	0.46	0.33	0.23	0.23
11	1.04	0.17	0.21	0.18	0.43	0.43	0.82	0.61	0.46	0.33	0.23	0.23
12	0.33	0.13	0.20	0.17	0.43	0.39	0.82	0.56	0.46	0.33	0.23	0.23
13	0.20	0.13	0.18	0.18	0.61	0.36	0.67	0.56	0.53	0.33	0.23	0.23
14	0.18	0.15	0.18	0.18	0.53	0.36	1.09	0.53	0.46	0.33	0.23	0.23
15	0.18	0.13	0.18	0.17	0.43	0.43	0.98	0.53	0.46	0.33	0.23	0.23
16	0.21	0.30	0.21	0.17	0.39	0.53	0.82	0.46	0.46	0.33	0.23	0.23
17	0.17	0.20	0.21	0.17	0.39	0.43	0.88	0.43	0.46	0.30	0.23	0.26
18	0.15	0.20	0.21	0.17	0.33	0.43	0.82	0.39	0.43	0.30	0.23	0.30
19	0.15	0.17	0.21	0.15	0.36	0.49	0.82	0.39	0.39	0.30	0.23	0.26
20	0.15	0.17	0.21	0.17	0.39	0.46	0.82	0.49	0.39	0.30	0.23	0.26
21	0.15	0.17	0.20	0.21	0.39	0.56	0.77	0.53	0.39	0.30	0.23	0.23
22	0.15	0.18	0.17	0.18	0.39	0.56	0.77	0.56	0.39	0.30	0.23	0.21
23	0.15	0.18	0.17	0.17	0.39	0.53	0.56	0.53	0.43	0.30	0.23	0.21
24	0.15	0.18	0.17	0.17	0.49	0.53	0.53	0.88	0.43	0.30	0.23	0.21
25	0.15	0.23	0.15	0.17	0.61	1.04	0.53	0.67	0.39	0.26	0.23	0.23
26	0.15	0.21	0.18	0.17	0.56	2.36	0.49	0.67	0.39	0.26	0.23	0.33
27	0.15	0.21	0.20	0.17	0.43	1.09	0.49	0.61	0.39	0.26	0.23	0.26
28	0.15	0.18	0.18	0.17	0.33	0.77	0.46	0.56	0.39	0.26	0.23	0.23
29	0.17	0.18	0.20	0.18	0.30	0.77	0.43	0.53	0.39	0.26		0.21
30	0.17	0.18	0.18	0.20	0.26	0.67	0.43	0.49	0.39	0.26		0.21
31		0.18		0.30	0.49		0.39		0.39	0.26		0.21
Total	5.95	5.62	6.38	6.11	11.16	18.79	21.42	17.57	13.74	9.71	6.47	7.38
Mean	0.20	0.18	0.21	0.20	0.36	0.63	0.69	0.58	0.44	0.31	0.23	0.24
Max.	1.04	0.30	0.36	0.36	0.61	2.36	1.09	1.32	0.53	0.39	0.26	0.39
Min.	0.15	0.13	0.15	0.15	0.18	0.36	0.39	0.39	0.39	0.26	0.23	0.21
Runoff – mcm.	0.514	0.485	0.551	0.528	0.964	1.623	1.851	1.518	1.187	0.839	0.559	0.638

WATER YEAR 1972 : Max. 2.36 Min. 0.13 Mean 0.36 Annual Runoff 11.258 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.1	21.00	1.14	11				

PING RIVER BASIN

Mae Ngat River at Ban Mai, Chiang Mai (P28)

Location: Lat. 19°-10'-12" N., Long. 99°-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: Water-stage recorder.

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

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

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

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April - August. Recording on September - March.

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.

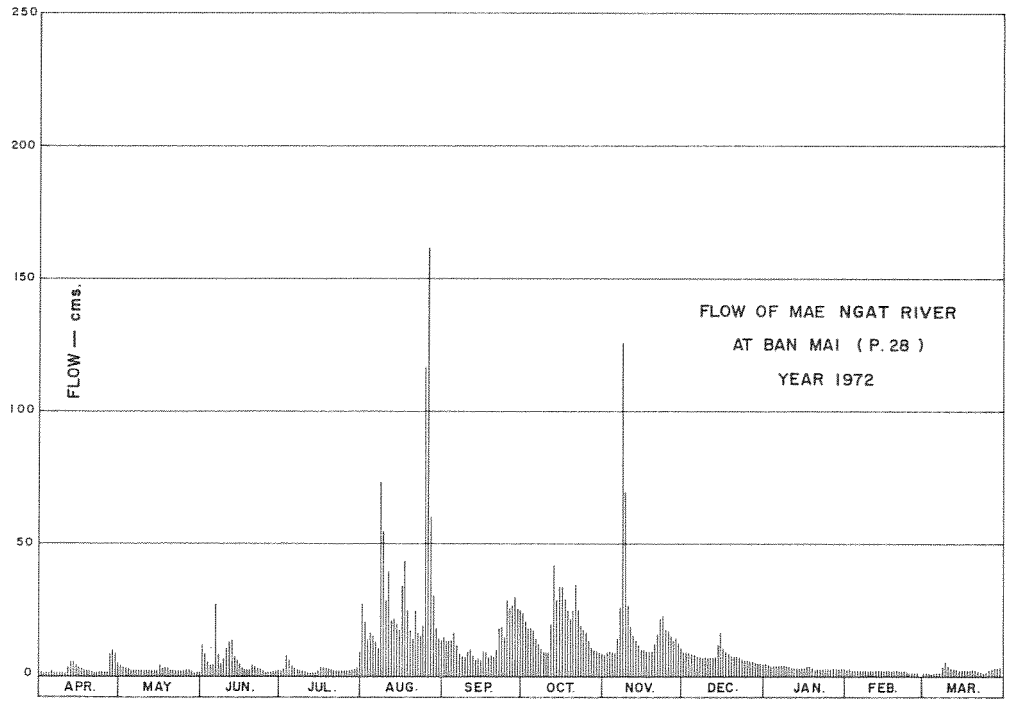
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 177 discharge measurements made in 1972. Flow regulated by Mae Ngat Weir which built by the local residents for irrigation.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.10	1.25	1.50	1.17	1.84	1.57	1.77	1.40	1.43	1.27	1.18	1.10
2	.10	.22	.41	.20	.67	.55	.72	.40	.43	.26	.18	.09
3	.10	.20	.29	.39	.56	.55	.65	.45	.42	.26	.17	.08
4	.10	.18	.23	.33	.61	.55	.67	.43	.40	.26	.17	.08
5	.12	.16	.26	.25	.59	.62	.64	.43	.39	.25	.17	.07
6	1.11	1.16	1.84	1.19	1.54	1.50	1.58	1.55	1.38	1.25	1.17	1.07
7	.10	.16	.39	.16	.47	.42	.52	.81	.37	.25	.16	.08
8	.10	.16	.26	.15	2.47	.38	.46	3.00	.37	.24	.16	.19
9	.09	.14	.34	.13	.14	.36	.43	2.17	.37	.24	.16	.30
10	.09	.14	.44	.12	1.87	.43	.41	1.84	.37	.23	.16	.26
11	1.20	1.14	1.53	1.11	2.06	1.48	1.42	1.68	1.36	1.23	1.16	1.22
12	.30	.15	.55	.10	1.71	.38	.80	.60	.36	.23	.15	.21
13	.30	.15	.36	.10	.73	.33	2.08	.55	.36	.22	.15	.18
14	.24	.15	.32	.10	.70	.37	1.86	.52	.50	.22	.15	.17
15	.20	.16	.27	.12	.64	.32	.96	.48	.62	.22	.15	.16
16	1.18	1.25	1.21	1.22	1.97	1.45	1.96	1.46	1.48	1.22	1.14	1.14
17	.16	.18	.17	.18	2.11	.41	.89	.45	.43	.22	.14	.15
18	.14	.20	.13	.20	1.80	.37	.82	.45	.40	.23	.14	.17
19	.14	.18	.14	.19	.70	.38	.73	.44	.38	.22	.13	.15
20	.13	.16	.25	.18	.57	.35	.81	.44	.37	.21	.13	.14
21	1.11	1.14	1.22	1.17	1.79	1.48	1.98	1.60	1.37	1.21	1.13	1.12
22	.10	.13	.19	.16	.62	.65	.85	.74	.36	.20	.12	.11
23	.10	.12	.14	.15	.60	.67	.69	.75	.35	.20	.12	.10
24	.10	.14	.12	.14	.67	.57	.64	.65	.33	.20	.12	.09
25	.10	.19	.11	.13	2.92	.86	.61	.65	.32	.20	.11	.09
26	1.10	1.16	1.08	1.12	3.29	1.82	1.56	1.60	1.31	1.19	1.11	1.13
27	.40	.15	.08	.13	2.34	.84	.50	.55	.30	.19	.10	.19
28	.44	.13	.10	.14	1.88	.89	.47	.56	.30	.19	.10	.20
29	.41	.11	.10	.17	.67	.81	.45	.51	.29	.18		.20
30	.30	.10	.12	.19	.56	.80	.43	.46	.29	.18		.20
31		.10		.41	.54		.41		.28	.18		.19
Mean	1.17	1.16	1.27	1.18	1.86	1.54	1.67	1.62	1.38	1.22	1.14	1.15
Max.	1.44	1.25	1.84	1.39	3.29	1.89	2.08	3.00	1.62	1.27	1.18	1.30
Min.	1.09	1.10	1.08	1.10	1.47	1.32	1.41	1.40	1.28	1.18	1.10	1.07

WATER YEAR 1972 : Max. 3.29 m. Min. 1.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.80	4.60	12	2.92	27	15	24	8.80	9.82	5.08	3.08	1.80
2	1.80	3.88	9.14	3.40	19	14	21	8.80	9.82	4.84	3.08	1.66
3	1.80	3.40	5.56	8.50	15	14	18	10	9.48	4.84	2.92	1.52
4	1.80	3.08	4.12	6.70	17	14	19	9.82	8.80	4.84	2.92	1.52
5	2.12	2.76	4.84	4.60	16	17	18	9.82	8.50	4.60	2.92	1.38
6	1.96	2.76	27	3.24	14	12	15	14	8.20	4.60	2.92	1.38
7	1.80	2.76	8.50	2.76	11	9.48	13	26	7.90	4.60	2.76	1.52
8	1.80	2.76	4.84	2.60	73	8.20	11	126	7.90	4.36	2.76	3.44
9	1.66	2.44	7.00	2.28	46	7.60	9.82	48	7.90	4.36	2.76	5.80
10	1.66	2.44	10	2.12	29	9.82	9.14	27	7.90	4.12	2.76	4.84
11	3.40	2.44	13	1.96	40	11	9.48	19	7.60	4.12	2.76	3.88
12	5.80	2.60	14	1.80	21	8.20	25	16	7.60	4.12	2.60	3.64
13	5.80	2.60	7.60	1.80	22	6.70	42	14	7.60	3.88	2.60	3.08
14	4.36	2.60	6.40	1.80	20	7.90	29	13	12	3.88	2.60	2.92
15	3.40	2.76	5.08	2.12	18	6.40	34	11	17	3.88	2.60	2.76
16	3.08	4.60	3.64	3.88	35	10	34	11	11	3.88	2.44	2.44
17	2.76	3.08	2.92	3.08	44	9.14	30	10	9.82	3.88	2.44	2.60
18	2.44	3.40	2.28	3.40	25	7.90	26	10	8.80	4.12	2.44	2.92
19	2.44	3.08	2.44	3.24	20	8.20	22	10	8.20	3.88	2.28	2.60
20	2.28	2.76	4.60	3.08	15	7.30	26	10	7.90	3.64	2.28	2.44
21	1.96	2.44	3.88	2.92	25	11	35	16	7.90	3.64	2.28	2.12
22	1.80	2.28	3.24	2.76	17	18	28	22	7.60	3.40	2.12	1.96
23	1.80	2.12	2.44	2.60	16	19	20	23	7.30	3.40	2.12	1.80
24	1.80	2.44	2.12	2.44	19	15	18	18	6.70	3.40	2.12	1.66
25	1.80	2.24	1.96	2.28	117	29	17	18	6.40	3.40	1.96	1.66
26	1.80	2.76	1.52	2.12	161	26	15	16	6.10	3.24	1.96	2.28
27	8.80	2.60	1.52	2.28	62	27	12	14	5.80	3.24	1.80	3.24
28	10	2.28	1.80	2.44	30	30	11	15	5.80	3.24	1.80	3.40
29	9.14	1.96	1.80	2.92	19	26	10	13	5.56	3.08		3.40
30	5.80	1.80	2.12	3.24	15	25	9.82	11	5.56	3.08		3.40
31		1.80		9.14	14		9.14		5.32	3.08		3.24
Total	98.66	86.52	177.36	100.42	1,022	429.84	620.40	578.24	253.78	121.72	70.08	82.10
Mean	3.29	2.79	5.91	3.24	33.0	14.3	20.0	19.3	8.19	3.93	2.50	2.65
Max.	10	4.60	27	8.50	161	30	42	126	17	5.08	3.08	5.80
Min.	1.66	1.80	1.52	1.80	11	6.40	9.14	8.80	5.32	3.08	1.80	1.38
Runoff - mcm.	8.524	7.475	15.324	8.676	88.301	37.138	53.602	49.960	21.926	10.517	6.055	7.093

WATER YEAR 1972 : Max. 161 Min. 1.38 Mean 9.97 Annual Runoff 314.593 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.25	18.00	3.72	221				

PING RIVER BASIN

Mae Li River at Highway Bridge, Lamphun (P29)

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

Drainage Area: 1,970 Sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M. - P29

Location: About 25 meters from the top of vertical staff gage.
Elevation: + 2.483 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: Stable, no shifting adjustment for flow computation.

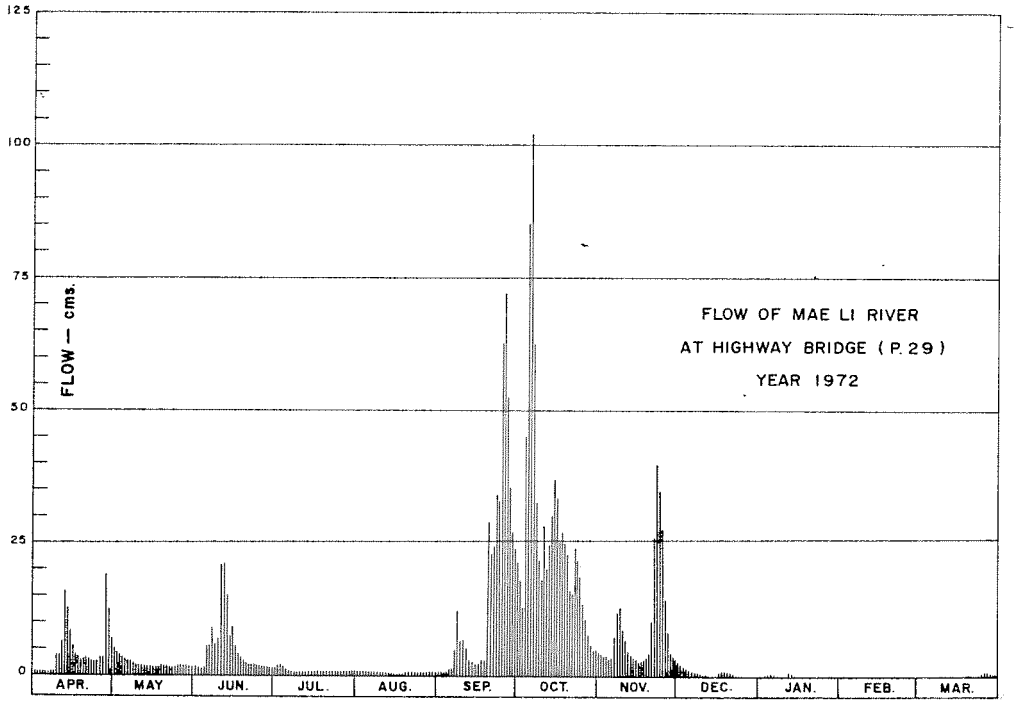
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 28 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr..	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.39	0.91	0.52	0.51	0.39	0.41	1.31	0.87	0.62	0.30	0.18	0.16
2	.38	.83	.49	.59	.40	.41	.27	.81	.58	.31	.19	.16
3	.38	.78	.48	.56	.40	.41	.16	.78	.53	.32	.20	.15
4	.38	.74	.49	.52	.39	.42	.58	.78	.49	.35	.21	.16
5	.39	.73	.92	.47	.39	.48	2.00	.72	.45	.34	.20	.15
6	0.39	0.71	0.94	0.41	0.38	0.47	2.14	0.76	0.43	0.33	0.19	0.15
7	.39	.67	1.04	.40	.38	.69	1.78	.97	.41	.33	.18	.16
8	.39	.61	0.94	.40	.38	1.13	.47	1.12	.39	.29	.19	.17
9	.80	.56	.98	.39	.38	0.99	.34	.15	.38	.25	.18	.18
10	.80	.56	1.05	.40	.38	.97	.24	.05	.36	.22	.19	.17
11	0.97	0.56	1.30	0.40	0.38	0.97	1.41	0.98	0.35	0.30	0.18	0.16
12	1.21	.55	.30	.40	.37	.78	.29	.89	.32	.39	.17	.16
13	.11	.55	.15	.40	.37	.67	.34	.80	.29	.37	.18	.16
14	.03	.54	.00	.40	.36	.62	.45	.75	.27	.33	.18	.16
15	0.93	.54	.05	.41	.36	.57	.53	.70	.30	.32	.17	.15
16	0.82	0.53	0.94	0.40	0.36	0.59	1.49	0.66	0.37	0.31	0.18	0.17
17	.76	.53	.85	.41	.36	.69	.37	.66	.42	.31	.18	.18
18	.67	.52	.73	.40	.35	.66	.40	.68	.42	.32	.17	.24
19	.68	.56	.64	.40	.36	.85	.37	.72	.42	.30	.18	.34
20	.75	.55	.60	.40	.37	1.42	.36	.84	.41	.26	.18	.36
21	0.72	0.53	0.58	0.40	0.38	1.33	1.21	1.11	0.38	0.23	0.19	0.30
22	.67	.50	.56	.40	.38	.37	.19	.38	.34	.22	.19	.27
23	.66	.48	.56	.40	.38	.49	.34	.56	.31	.20	.18	.29
24	.66	.50	.55	.40	.38	.48	.31	.52	.30	.18	.17	.35
25	.66	.53	.54	.39	.38	.77	.22	.39	.29	.19	.17	.36
26	0.75	0.56	0.52	0.40	0.39	1.89	1.14	1.20	0.28	0.19	0.17	0.41
27	.76	.57	.51	.40	.39	.77	.08	.03	.29	.17	.17	.40
28	1.26	.54	.51	.39	.40	.56	.01	0.88	.31	.18	.17	.39
29	.16	.50	.49	.39	.40	.40	0.95	.77	.32	.18		.37
30	.00	.49	.47	.39	.39	.34	.89	.69	.30	.17		.35
31		.49		.39	.40		.90		.29	.19		.33
Mean	0.73	0.59	0.76	0.42	0.38	0.99	1.34	0.95	0.38	0.27	0.18	0.24
Max.	1.26	0.91	1.30	0.59	0.40	1.89	2.14	1.56	0.62	0.39	0.21	0.41
Min.	0.38	0.48	0.47	0.39	0.35	0.41	0.89	0.66	0.27	0.17	0.17	0.15

WATER YEAR 1972 : Max. 2.14 m. Min. 0.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.72	5.22	1.76	1.68	0.72	0.88	22	4.70	2.56	0.00	0.00	0.00
2	0.64	4.30	1.52	2.32	0.80	0.88	19	4.10	2.24	0.08	0.00	0.00
3	0.64	3.84	1.44	2.08	0.80	0.88	13	3.84	1.84	0.16	0.00	0.00
4	0.64	3.52	1.52	1.76	0.72	0.96	42	3.84	1.52	0.40	0.00	0.00
5	0.72	3.44	5.44	1.36	0.72	1.44	85	3.36	1.20	0.32	0.00	0.00
6	0.72	3.28	5.88	0.88	0.64	1.36	102	3.68	1.04	0.24	0.00	0.00
7	0.72	2.96	8.72	0.80	0.64	3.12	60	6.54	0.88	0.24	0.00	0.00
8	0.72	2.48	5.88	0.80	0.64	12	33	12	0.72	0.00	0.00	0.00
9	4.00	2.08	6.76	0.72	0.64	6.98	24	13	0.64	0.00	0.00	0.00
10	4.00	2.08	9.10	0.80	0.64	6.54	17	9.10	0.48	0.00	0.00	0.00
11	6.54	2.08	21	0.80	0.64	6.54	28	6.76	0.40	0.00	0.00	0.00
12	16	2.00	21	0.80	0.56	3.84	20	4.90	0.16	0.72	0.00	0.00
13	11	2.00	13	0.80	0.56	2.96	24	4.00	0.00	0.56	0.00	0.00
14	8.34	1.92	7.20	0.80	0.48	2.56	31	3.60	0.00	0.24	0.00	0.00
15	5.66	1.92	9.10	0.88	0.48	2.16	37	3.20	0.00	0.16	0.00	0.00
16	4.20	1.84	5.88	0.80	0.48	2.32	34	2.88	0.56	0.08	0.00	0.00
17	3.68	1.84	4.50	0.88	0.48	3.12	25	2.88	0.96	0.08	0.00	0.00
18	2.96	1.76	3.44	0.80	0.40	2.88	27	3.04	0.96	0.16	0.00	0.00
19	3.04	2.08	2.72	0.80	0.48	4.50	25	3.36	0.96	0.00	0.00	0.32
20	3.60	2.00	2.40	0.80	0.56	29	25	4.40	0.88	0.00	0.00	0.48
21	3.36	1.84	2.24	0.80	0.64	23	16	11	0.64	0.00	0.00	0.00
22	2.96	1.60	2.08	0.80	0.64	25	15	26	0.32	0.00	0.00	0.00
23	2.88	1.44	2.08	0.80	0.64	34	24	40	0.08	0.00	0.00	0.00
24	2.88	1.60	2.00	0.80	0.64	33	22	37	0.08	0.00	0.00	0.40
25	2.88	1.84	1.92	0.72	0.64	59	16	27	0.00	0.00	0.00	0.48
26	3.60	2.08	1.76	0.80	0.72	72	13	15	0.00	0.00	0.00	0.88
27	3.68	2.16	1.68	0.80	0.72	59	10	8.34	0.00	0.00	0.00	0.80
28	19	1.92	1.68	0.72	0.80	40	7.58	4.80	0.08	0.00	0.00	0.72
29	13	1.60	1.52	0.72	0.80	27	6.10	3.76	0.16	0.00		0.56
30	7.20	1.52	1.36	0.72	0.72	24	4.90	3.12	0.00	0.00		0.40
31		1.52		0.72	0.80		5.00		0.00	0.00		0.24
Total	139.98	71.76	156.58	29.76	19.84	490.92	832.58	279.20	19.28	3.44	0.00	5.28
Mean	4.67	2.31	5.22	0.96	0.64	16.4	29.9	9.31	0.62	0.11	0.00	0.17
Max.	19	5.22	21	2.32	0.80	72	102	40	2.56	0.72	0.00	0.88
Min.	0.64	1.44	1.36	0.72	0.40	0.88	4.90	2.88	0.00	0.00	0.00	0.00
Runoff - mcm.	12.094	6.200	13.528	2.571	1.714	42.415	71.935	24.123	1.666	0.297	0.000	0.456

WATER YEAR 1972 : Max. 102 Min. 0.00 Mean 5.61 Annual Runoff 177.001 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	15.00	2.19	109				

PING RIVER BASIN

Mae Kuang River at Ban Kiang Kha Mai, Chiang Mai (P30)

Location: Lat. 18°-56'-55" 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 site.
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: Fairly stable by some scouring, no shifting adjustment but periodic curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

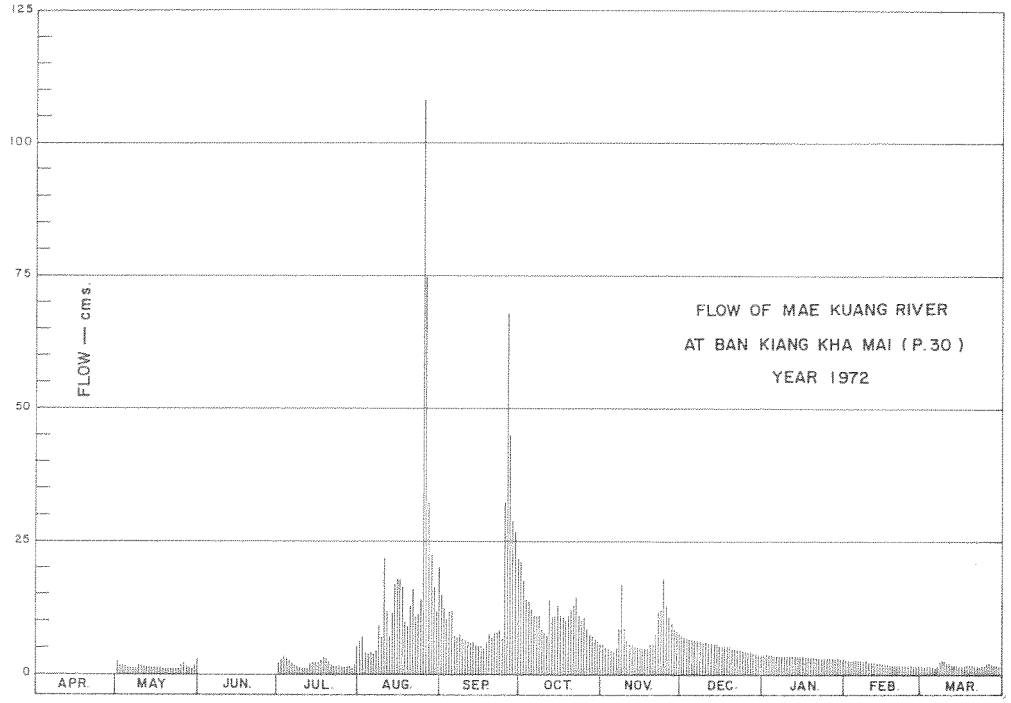
General Description: Records fair. Stage-discharge relation defined by 25 discharge measurements made in 1972.

Remarks: No gage height and discharge on period April 1-30, June 1-30.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		345.23		345.24	345.46	345.72	345.86	345.42	345.41	345.22	345.15	345.05
2		.21		.27	.47	.66	.80	.40	.40	.22	.14	.05
3		.21		.34	.36	.57	.69	.39	.38	.22	.13	.04
4		.20		.30	.33	.64	.69	.37	.37	.22	.13	.04
5		.20		.26	.36	.63	.65	.35	.36	.21	.13	.04
6		345.19		345.24	345.32	345.48	345.60	345.39	345.36	345.21	345.13	345.06
7		.19		.21	.36	.47	.60	.51	.35	.21	.13	.06
8		.18		.20	.54	.49	.60	.77	.35	.20	.13	.13
9		.22		.19	.48	.46	.52	.56	.35	.20	.13	.16
10		.21		.18	.89		.49	.46	.34	.20	.12	.11
11		345.20		345.17	345.64		345.48	345.43	345.33	345.20	345.12	345.09
12		.20		.17	.48	345.43	.69	.42	.32	.20	.12	.08
13		.19		.23	.54	.44	.62	.40	.33	.20	.11	.07
14		.18		.24	.77	.41	.59	.40	.33	.20	.11	.06
15		.18		.24	.79	.41	.66	.40	.32	.20	.11	.05
16		345.18		345.25	345.80	345.41	345.62	345.39	345.31	345.20	345.10	345.05
17		–		.26	.74	.38	.60	.39	.30	.19	.09	.06
18		–		.29	.55	.44	.58	.38	.30	.19	.09	.07
19		–		.27	.54	.49	.60	.42	.29	.19	.08	.08
20		–		.23	.67	.47	.64	.42	.28	.18	.07	.07
21		345.18		345.22	345.75	345.50	345.67	345.44	345.27	345.18	345.07	345.06
22		.17		.21	.62	.50	.68	.63	.27	.18	.07	.04
23		.17		.20	.59	.52	.59	.64	.27	.17	.07	.04
24		.17		.21	.66	.46	.57	.79	.26	.17	.07	.04
25		.22		.20	347.17	346.07	.60	.66	.25	.17	.07	.04
26		345.24		345.19	346.48	346.67	345.53	345.60	345.25	345.17	345.06	345.11
27		.20		.19	.09	.21	.49	.53	.24	.16	.06	.11
28		.19		.21	345.88	.03	.47	.47	.24	.16	.05	.08
29		.18		.19	.71	345.99	.46	.44	.24	.16		.06
30		.20		.21	.65	.88	.44	.42	.22	.16		.05
31		.29		.40	.83		.42		.22	.15		.04
Mean		345.19		345.23	345.69	345.67	345.60	345.48	345.31	345.19	345.10	345.11
Max.		345.29		345.40	347.17	346.67	345.86	345.79	345.41	345.22	345.15	345.16
Min.		345.17		345.17	345.32	345.38	345.42	345.35	345.22	345.15	345.05	345.04

WATER YEAR 1972 : Max. 347.17 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		2.01		2.18	6.76	15	21	5.70	7.40	3.94	2.90	1.65
2		1.67		2.99	7.02	13	18	5.20	7.20	3.94	2.76	1.65
3		1.67		4.00	4.40	10	14	5.00	6.82	3.94	2.62	1.54
4		1.50		3.20	3.80	12	14	4.60	6.63	3.94	2.62	1.54
5		1.50		2.52	4.40	12	12	4.20	6.44	3.77	2.62	1.54
6		1.39		2.18	3.60	7.28	11	5.00	6.44	3.77	2.62	1.76
7		1.39		1.67	4.40	7.02	11	8.10	6.25	3.77	2.62	1.76
8		1.28		1.50	9.00	7.54	11	17	6.25	3.60	2.62	2.62
9		1.84		1.39	7.28	6.76	8.40	9.60	6.25	3.60	2.62	3.04
10		1.67		1.28	22	6.50	7.54	6.76	6.06	3.60	2.48	2.34
11		1.50		1.17	12	6.24	7.28	5.98	5.87	3.60	2.48	2.09
12		1.50		1.17	7.28	5.98	14	5.72	5.68	3.60	2.48	1.98
13		1.39		2.01	9.00	6.24	11	5.20	5.87	3.60	2.34	1.87
14		1.28		2.18	17	5.46	11	5.20	5.87	3.60	2.34	1.76
15		1.28		2.18	18	5.46	13	5.20	5.68	3.60	2.34	1.65
16		1.28		2.35	18	5.46	11	5.00	5.49	3.60	2.20	1.65
17		1.28		2.52	16	4.80	11	5.00	5.30	3.46	2.09	1.76
18		1.28		3.03	9.30	6.24	10	4.80	5.30	3.46	2.09	1.87
19		1.28		2.69	9.00	7.54	11	5.72	5.13	3.46	1.98	1.98
20		1.28		2.01	13	7.02	12	5.72	4.96	3.32	1.87	1.87
21		1.28		1.84	16	7.80	13	6.24	4.79	3.32	1.87	1.76
22		1.17		1.67	11	7.80	14	12	4.79	3.32	1.87	1.54
23		1.17		1.50	11	8.40	11	12	4.79	3.18	1.87	1.54
24		1.17		1.67	13	6.76	10	18	4.62	3.18	1.87	1.54
25		1.84		1.50	108	31	11	13	4.45	3.18	1.87	1.54
26		2.18		1.39	56	68	8.70	11	4.45	3.18	1.76	2.34
27		1.50		1.39	32	39	7.54	9.80	4.28	3.04	1.76	2.34
28		1.39		1.67	22	29	7.02	8.60	4.28	3.04	1.65	1.98
29		1.28		1.39	15	27	6.76	8.00	4.28	3.04		1.76
30		1.50		1.67	12	22	6.24	7.60	3.94	3.04		1.65
31		3.03		5.20	20		5.70		3.94	2.90		1.54
Total		46.78		64.81	517.24	404.30	330.18	230.94	169.50	107.59	63.21	59.45
Mean		1.51		2.09	16.7	13.5	11.0	7.70	5.47	3.47	2.26	1.85
Max.		3.03		5.20	108	68	21	18	7.40	3.94	2.90	3.04
Min.		1.17		1.17	3.60	4.80	5.70	4.20	3.94	2.90	1.65	1.54
Runoff - mcm.		4.042		5.599	44.689	34.931	29.391	19.953	14.645	9.296	5.461	4.964

WATER YEAR 1972 : Max. 108 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.25	13.00	347.96	188				

PING RIVER BASIN

Huai Mae Raka at Ban Khlong Pradu, Tak (P32)

Location: Lat. 16°-55'-27" N., Long. 99°-18'-09" E., on right bank about 500 meters upstream from Ban Wang Prachop, Amphoe Muang, Tak.

Drainage Area: 342 Sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: on right bank near automatic gage building.
Elevation: + 3.516 m. (A.D.)

Gage Reading Frequency: Recording

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

Overbank Flow Conditions: No overbank flow.

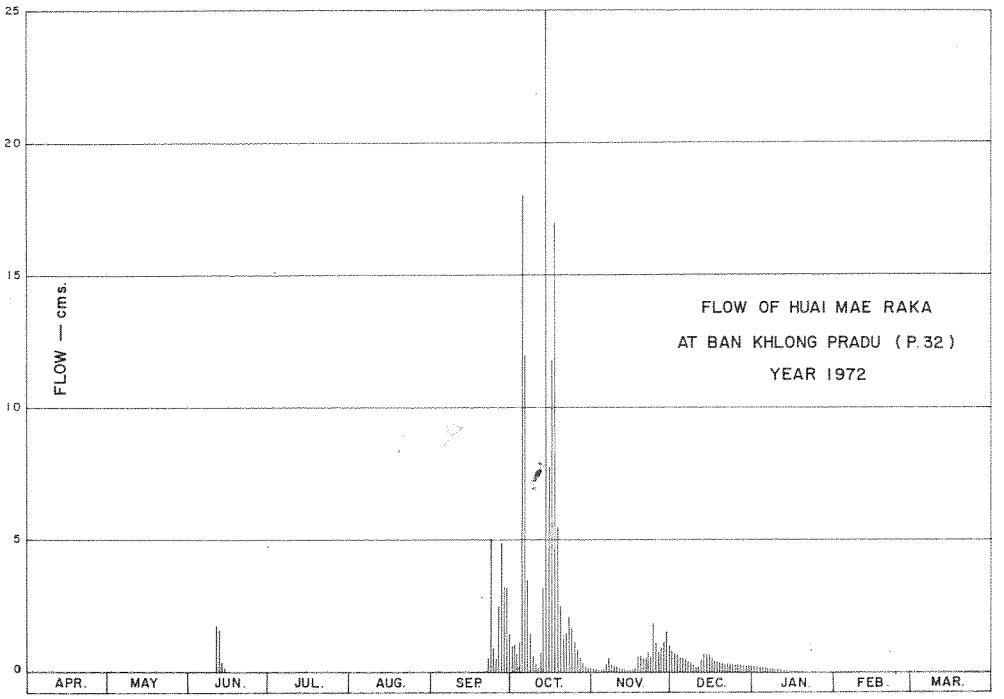
General Description: Records fair. Stage-discharge relation defined by 35 discharge measurements made during 1972.

Remarks: No flow on periods May 1-31, February 16 - March 31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	-0.07		-0.10	-0.12	-0.17	-0.17	0.36	0.12	0.32	0.16	-0.01	
2	-0.07		-0.10	-0.12	-0.17	-0.17	.38	.11	.31	.16	-0.02	
3	-0.08		-0.10	-0.13	-0.17	-0.17	.31	.11	.29	.15	-0.03	
4	-0.08		-0.10	-0.11	-0.17	-0.17	.40	.10	.27	.14	-0.04	
5	-0.09		-0.10	-0.09	-0.17	-0.17	1.56	.10	.25	.14	-0.05	
6	-0.09		-0.10	-0.09	-0.17	-0.17	1.09	0.18	0.25	0.13	-0.05	
7	-0.09		-0.10	-0.09	-0.17	-0.17	0.64	.25	.24	.12	-0.05	
8	-0.09		-0.10	-0.09	-0.17	-0.17	.44	.19	.21	.12	-0.06	
9	-0.09		-0.10	-0.10	-0.17	-0.17	.31	.19	.18	.11	-0.07	
10	-0.09		0.00	-0.12	-0.17	-0.17	.22	.17	.13	.11	-0.08	
11	-0.09		0.48	-0.13	-0.17	-0.17	0.18	0.14	0.14	0.10	-0.09	
12	-0.08		.44	-0.14	-0.17	-0.17	.32	.12	.23	.10	-0.09	
13	-0.08		.22	-0.14	-0.17	-0.17	.65	.11	.30	.09	-0.10	
14	-0.08		.13	-0.14	-0.17	-0.17	1.88	.09	.30	.08	-0.10	
15	-0.08		.06	-0.14	-0.17	-0.17	.01	.08	.30	.07	-0.11	
16	-0.08		0.03	-0.14	-0.17	-0.17	1.25	0.09	0.27	0.06		
17	-0.09		.03	-0.15	-0.17	-0.17	.51	.10	.23	.06		
18	-0.09		.01	-0.16	-0.17	-0.17	0.84	.28	.23	.05		
19	-0.09		.00	-0.17	-0.17	-0.17	.63	.28	.21	.05		
20	-0.10		.01	-0.17	-0.17	-0.17	.50	.27	.21	.05		
21	-0.10		0.02	-0.17	-0.17	-0.06	0.43	0.26	0.20	0.05		
22	-0.10		.02	-0.17	-0.17	0.24	.44	.31	.20	.04		
23	-0.10		.00	-0.17	-0.17	.81	.52	.27	.20	.04		
24	-0.10		-0.01	-0.17	-0.17	.34	.47	.49	.20	.03		
25	-0.11		-0.02	-0.17	-0.17	.26	.39	.42	.20	.03		
26	-0.11		-0.03	-0.17	-0.17	0.81	0.33	0.31	0.20	0.02		
27	-0.11		-0.07	-0.17	-0.17	.80	.28	.34	.20	.01		
28	-0.11		-0.09	-0.17	-0.17	.65	.23	.37	.19	.01		
29	-0.10		-0.10	-0.17	-0.17	.65	.18	.45	.19	.00		
30	-0.10		-0.11	-0.17	-0.17	.45	.17	.39	.18	.00		
31				-0.18	-0.17		.13		.17	-0.01		
Mean	-0.091		-0.044	-0.14	-0.17	0.052	0.58	0.22	0.22	0.073	-0.034	
Max.	-0.070		0.48	-0.090	-0.17	0.81	1.88	0.49	0.32	0.16	-0.010	
Min.	-0.11		-0.11	-0.18	-0.17	-0.17	0.13	0.080	0.13	-0.010	-0.11	

WATER YEAR 1972 : Max. 1.88 m. Min. -0.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00		0.00	0.00	0.00	0.00	1.00	0.14	0.80	0.22	0.00	
2	0.00		0.00	0.00	0.00	0.00	1.10	0.12	0.75	0.22	0.00	
3	0.00		0.00	0.00	0.00	0.00	0.75	0.12	0.66	0.20	0.00	
4	0.00		0.00	0.00	0.00	0.00	1.20	0.10	0.58	0.18	0.00	
5	0.00		0.00	0.00	0.00	0.00	18	0.10	0.50	0.18	0.00	
6	0.00		0.00	0.00	0.00	0.00	9.04	0.26	0.50	0.16	0.00	
7	0.00		0.00	0.00	0.00	0.00	3.10	0.56	0.46	0.14	0.00	
8	0.00		0.00	0.00	0.00	0.00	1.48	0.28	0.34	0.14	0.00	
9	0.00		0.00	0.00	0.00	0.00	0.75	0.28	0.26	0.12	0.00	
10	0.00		0.00	0.00	0.00	0.00	0.38	0.24	0.16	0.12	0.00	
11	0.00		1.76	0.00	0.00	0.00	0.26	0.18	0.18	0.10	0.00	
12	0.00		1.48	0.00	0.00	0.00	0.80	0.14	0.42	0.10	0.00	
13	0.00		0.38	0.00	0.00	0.00	3.20	0.12	0.70	0.080	0.00	
14	0.00		0.16	0.00	0.00	0.00	25	0.080	0.70	0.060	0.00	
15	0.00		0.00	0.00	0.00	0.00	7.76	0.060	0.70	0.040	0.00	
16	0.00		0.00	0.00	0.00	0.00	12	0.080	0.58	0.020		
17	0.00		0.00	0.00	0.00	0.00	17	0.10	0.42	0.020		
18	0.00		0.00	0.00	0.00	0.00	5.42	0.62	0.42	0.00		
19	0.00		0.00	0.00	0.00	0.00	3.00	0.62	0.34	0.00		
20	0.00		0.00	0.00	0.00	0.00	1.90	0.58	0.34	0.00		
21	0.00		0.00	0.00	0.00	0.00	1.41	0.54	0.30	0.00		
22	0.00		0.00	0.00	0.00	0.46	1.48	0.75	0.30	0.00		
23	0.00		0.00	0.00	0.00	5.03	2.06	0.58	0.30	0.00		
24	0.00		0.00	0.00	0.00	0.90	1.69	1.83	0.30	0.00		
25	0.00		0.00	0.00	0.00	0.54	1.15	1.34	0.30	0.00		
26	0.00		0.00	0.00	0.00	5.03	0.85	0.75	0.30	0.00		
27	0.00		0.00	0.00	0.00	4.90	0.62	0.90	0.30	0.00		
28	0.00		0.00	0.00	0.00	3.20	0.42	1.05	0.28	0.00		
29	0.00		0.00	0.00	0.00	3.20	0.26	1.55	0.28	0.00		
30	0.00		0.00	0.00	0.00	1.55	0.24	1.15	0.26	0.00		
31				0.00	0.00		0.16		0.24	0.00		
Total	0.00		3.78	0.00	0.00	24.81	123.48	15.16	12.97	2.10	0.00	
Mean	0.00		0.13	0.00	0.00	0.83	3.98	0.50	0.42	0.068	0.00	
Max.	0.00		1.76	0.00	0.00	5.03	25	1.83	0.80	0.22	0.00	
Min.	0.00		0.00	0.00	0.00	0.00	0.16	0.060	0.16	0.00	0.00	
Runoff - mcm.	0.000		0.326	0.000	0.000	2.143	10.669	1.310	1.121	0.181	0.000	

WATER YEAR 1972 : Max. 25 Min. 0.00 Mean 0.50 Annual Runoff 15.751 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 14	09.00	2.42	40				

WANG RIVER BASIN

Mae Wang River at Kittikhachon II Bridge, Lampang (W1A)

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: Water-stage recorder.

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

Bench Mark: B.M. - W1A

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 from April 1 - December 20, 1972
Recording from December 21 - March 31, 1973.

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: 1967 to date.
Rated by Float: -
Rated by Current Meter: 1967 to date.

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

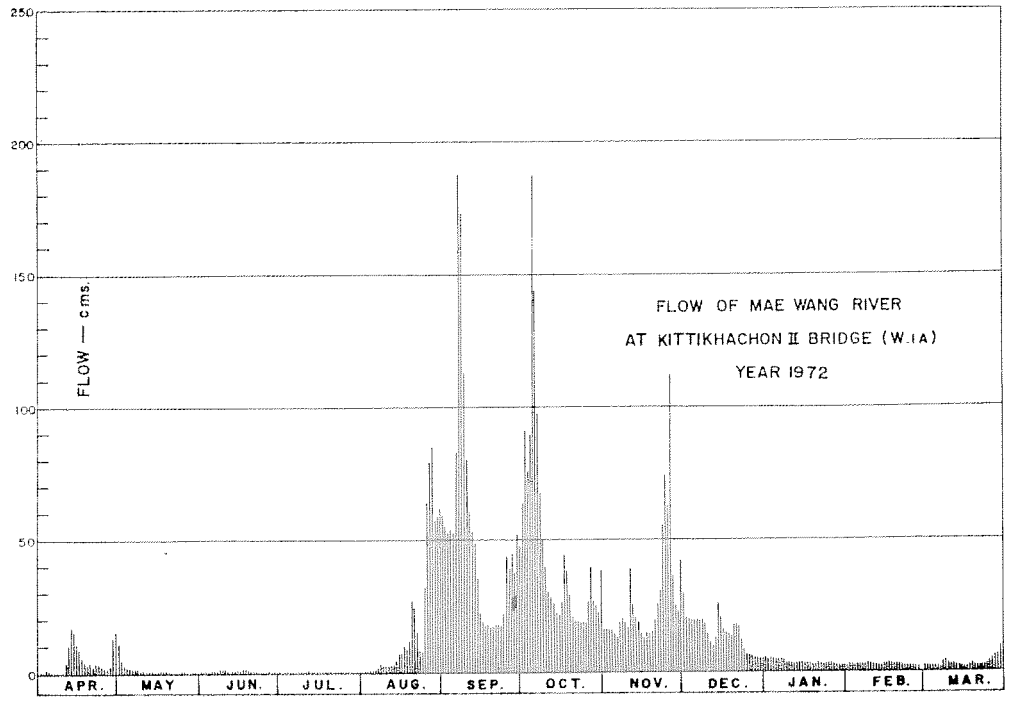
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 158 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	227.93	228.38	227.99	227.93	227.94	229.23	229.22	228.56	228.69	228.24	228.12	228.07
2	.93	.18	.97	.94	.94	.16	.59	.57	.65	.22	.14	.08
3	.93	.11	.98	.94	.96	.15	.41	.56	.64	.22	.14	.07
4	228.04	.06	.98	.94	.99	.18	.57	.56	.64	.22	.12	.07
5	227.99	.05	.96	.94	228.02	.14	230.47	.51	.64	.22	.14	.06
6	227.93	228.04	227.94	227.93	228.02	229.38	229.94	228.47	228.64	228.22	228.14	228.07
7	.93	.02	.94	.97	.10	230.47	.43	.64	.64	.22	.13	.06
8	.93	.01	228.02	.96	.15	.35	.27	.64	.64	.20	.15	.08
9	.92	227.99	.05	.95	.10	229.72	.05	.59	.61	.17	.16	.18
10	.92	.98	.03	.98	.09	.46	228.92	.55	.51	.15	.14	.11
11	228.17	227.96	227.95	227.96	228.11	229.27	228.81	228.96	228.43	228.14	228.10	228.11
12	.42	.95	.94	228.00	.12	.16	.80	.68	.40	.15	.11	.13
13	.57	.95	228.03	.00	.14	.13	.75	.64	.42	.13	.10	.10
14	.52	.95	227.97	227.98	.17	.01	.69	.63	.76	.15	.10	.08
15	.41	.95	228.01	.96	.20	228.69	.69	.50	.62	.16	.17	.05
16	228.34	227.95	228.00	227.97	228.31	228.62	228.77	228.48	228.54	228.16	228.14	228.05
17	.22	.97	.04	.96	.40	.58	229.04	.52	.52	.14	.15	.06
18	.15	.97	.04	.98	.35	.61	228.88	.52	.51	.14	.13	.09
19	.14	.98	227.98	.97	.37	.58	.75	.55	.49	.12	.12	.13
20	.16	.95	.97	.96	.28	.57	.66	.65	.61	.14	.13	.10
21	228.05	227.96	227.96	227.94	228.72	228.39	228.65	228.78	228.59	228.16	228.13	228.07
22	.15	.95	.96	.95	.51	.69	.63	.85	.58	.13	.12	.07
23	.14	.94	.95	.94	.32	.60	.63	229.27	.42	.12	.11	.07
24	.12	.92	.93	.94	.34	.61	.63	.41	.35	.14	.09	.09
25	.08	.99	.93	.94	.92	229.03	.62	.24	.29	.16	.09	.13
26	228.04	227.93	227.93	227.94	229.38	228.94	228.80	229.80	228.26	228.14	228.07	228.19
27	.03	.93	.97	.94	.52	229.05	.96	228.84	.26	.12	.07	.26
28	.22	.93	.95	.96	.53	228.91	.75	.74	.25	.08	.07	.27
29	.49	.93	.93	.94	.21	229.15	.73	.70	.24	.10		.29
30	.53	.94	.92	.94	.24	.08	.89	229.01	.25	.14		.38
31		.96		.94	.28		.94		.24	.12		.40
Mean	228.11	227.96	227.97	227.95	228.49	229.00	228.99	228.75	228.50	228.16	228.12	228.13
Max.	228.57	228.38	228.05	228.00	229.53	230.47	230.47	229.80	228.69	228.24	228.17	228.40
Min.	227.92	227.92	227.92	227.93	227.94	228.57	228.62	228.47	228.24	228.08	228.07	228.05

WATER YEAR 1972 : Max. 230.47 m. Min. 227.92 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	9.40	0.90	0.30	0.40	98	58	16	22	5.50	2.90	2.05
2	0.30	4.10	0.70	0.40	0.40	53	91	17	20	5.00	3.30	2.20
3	0.30	2.70	0.60	0.40	0.60	52	74	16	20	5.00	3.30	2.05
4	1.60	1.90	0.80	0.40	0.90	54	89	16	20	5.00	2.90	2.05
5	0.90	1.75	0.60	0.40	1.30	51	187	14	20	5.00	3.30	1.90
6	0.30	1.60	0.40	0.30	1.30	71	127	13	20	5.00	3.30	2.05
7	0.30	1.30	0.40	0.70	2.50	187	76	20	20	5.00	3.10	1.90
8	0.30	1.15	1.30	0.60	3.50	173	62	20	20	4.50	3.50	4.10
9	0.20	0.90	1.75	0.50	2.50	104	45	18	18	3.90	3.70	4.10
10	0.20	0.80	1.45	0.80	2.35	79	36	16	14	3.90	3.30	2.70
11	3.90	0.60	0.50	0.60	2.70	62	29	39	11	3.30	2.50	2.70
12	11	0.50	0.40	1.00	2.90	53	28	22	10	3.50	2.70	3.10
13	17	0.50	1.45	1.00	3.30	51	26	20	11	3.10	2.50	2.50
14	15	0.50	0.70	0.80	3.90	42	22	19	26	3.60	2.50	2.20
15	10	0.50	1.15	0.60	7.00	22	22	14	19	3.70	3.90	1.75
16	8.20	0.50	1.00	0.70	7.30	19	27	13	16	3.70	3.30	1.75
17	5.00	0.70	1.60	0.60	10	17	44	15	15	3.50	3.50	1.90
18	3.50	0.70	1.60	0.80	8.50	18	38	15	14	3.30	3.10	2.35
19	3.10	0.80	0.80	0.70	9.10	17	26	16	14	2.90	2.90	3.10
20	3.70	0.50	0.70	0.60	27	17	21	20	18	3.30	3.10	2.50
21	1.75	0.50	0.60	0.40	24	18	20	27	18	3.70	3.10	2.05
22	3.50	0.50	0.60	0.50	14	18	19	32	17	3.10	2.90	2.05
23	3.30	0.40	0.50	0.40	7.60	18	19	62	11	2.90	2.70	2.05
24	2.90	0.20	0.30	0.40	8.20	18	19	74	7.90	3.30	2.35	2.35
25	2.20	0.90	0.30	0.40	36	44	19	59	6.75	3.70	2.35	3.10
26	1.60	0.30	0.30	0.40	71	38	28	112	6.00	3.30	2.05	4.30
27	1.45	0.30	0.70	0.40	84	45	39	31	6.00	2.90	2.05	6.00
28	5.00	0.30	0.30	0.60	85	36	26	25	5.75	2.20	2.05	6.25
29	14	0.30	0.30	0.40	57	52	25	23	5.50	2.50		6.75
30	15	0.40	0.20	0.40	59	47	22	42	5.75	2.30		9.40
31		0.60		0.40	62		38		5.50	2.90		10
Total	135.80	36.10	23.10	16.90	605.25	1,554	1,398	846	443.15	114.80	82.15	103.25
Mean	4.53	1.16	0.77	0.54	19.5	51.1	45.1	28.2	14.3	3.70	2.93	3.33
Max.	17	9.40	1.75	1.00	85	187	187	112	22	5.50	3.90	10
Min.	0.20	0.20	0.20	0.30	0.40	17	19	13	5.50	2.20	2.05	1.75
Runoff — mcm.	11.733	3.119	1.996	1.460	52.294	132.537	120.787	73.094	38.288	9.919	7.098	8.921

WATER YEAR 1972 : Max. 187 Min. 0.20 Mean 14.6 Annual Runoff 461.246 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.5	18.00	230.59	201				

WANG RIVER BASIN

Mae Wang River at Siriyong Bridge, Lampang (W3A)

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

Drainage Area: 8,985 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 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: Stable, no shifting adjustment for flow computation.

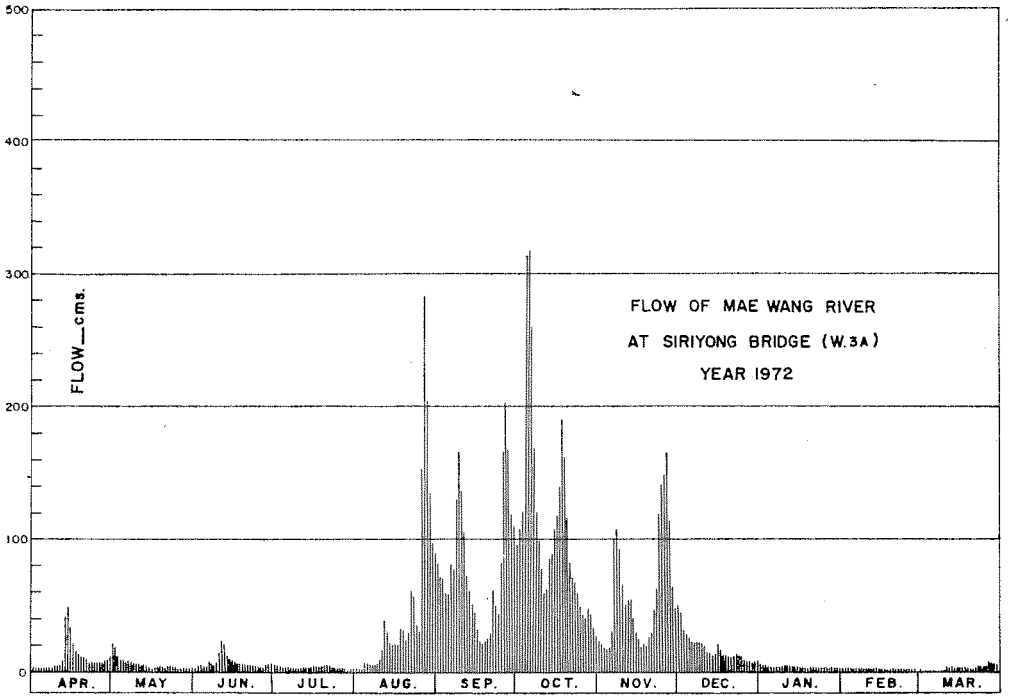
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relation defined by 37 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.99	1.33	0.97	1.06	0.94	1.86	1.92	1.36	1.62	1.07	0.97	0.91
2	.99	.28	1.04	.04	.93	.77	2.02	.32	.56	.04	.97	.91
3	.99	.18	.03	.02	.92	.77	.01	.29	.44	.02	.97	.91
4	.98	.13	.02	.00	1.08	.69	.29	.28	.40	.02	.97	.91
5	.97	.11	0.99	.00	.08	.67	3.00	.28	.38	.02	.96	.91
6	0.97	1.09	1.12	1.01	1.05	1.84	3.01	1.41	1.36	1.02	0.96	0.91
7	.98	.11	.09	.01	.03	.77	2.52	.97	.34	.02	.96	.91
8	1.00	.08	.02	0.99	.03	2.20	.20	2.01	.34	.02	.96	.91
9	.05	.06	.03	.97	.07	.34	1.98	1.88	.34	.03	.96	.91
10	.03	.05	.23	.97	.17	.19	.86	.75	.33	.03	.96	.92
11	1.02	1.03	1.36	1.00	1.31	1.99	1.69	1.61	1.31	1.03	0.97	0.98
12	.10	.02	.34	0.99	.51	.77	.71	.64	.26	.02	.98	.99
13	.54	.03	.26	.98	.43	.72	.87	.64	.24	.02	.98	.96
14	.61	.01	.17	.98	.32	.65	.89	.46	.22	.01	.98	.96
15	.46	0.94	.13	.99	.32	.56	2.00	.41	.23	.00	.98	.96
16	1.35	0.98	1.10	1.01	1.32	1.45	2.06	1.36	1.33	1.00	0.98	0.96
17	.26	.97	.08	.01	.31	.36	.19	.30	.28	.00	.95	.96
18	.21	.99	.06	.01	.44	.32	.46	.33	.23	.00	.95	.96
19	.19	1.02	.06	.01	.44	.36	.38	.30	.21	.00	.95	.96
20	.17	.00	.05	.04	.36	.39	.03	.38	.19	.00	.96	.96
21	1.14	1.00	1.05	1.05	1.44	1.42	1.87	1.42	1.19	1.00	0.96	0.96
22	.07	.05	.04	.01	.70	.71	.78	.57	.22	.00	.96	.99
23	.10	.03	.04	.00	.67	.61	.75	.73	.25	0.99	.96	1.02
24	.09	.01	.02	.00	.50	.52	.70	2.11	.22	.98	.95	.00
25	.08	.00	.01	.00	.42	.85	.61	.24	.16	.98	.96	.00
26	1.08	0.98	0.99	0.97	2.24	2.53	1.55	2.26	1.14	0.98	0.94	1.02
27	.08	.98	.97	.96	.88	.43	.52	.34	.13	.98	.93	.09
28	.11	.98	1.04	.94	.41	.33	.59	1.89	.12	.98	.92	.07
29	.12	.97	.06	.92	.26	.04	.55	.70	.12	.98		.05
30	.19	.97	.08	.93	1.96	.02	.44	.59	.12	.98		.05
31		.97		.93	.91		.40		.11	.98		.05
Mean	1.13	1.04	1.08	0.99	1.47	1.80	1.96	1.63	1.27	1.01	0.96	0.97
Max.	1.61	1.33	1.36	1.06	2.88	2.53	3.01	2.34	1.62	1.07	0.98	1.09
Min.	0.97	0.94	0.97	0.92	0.92	1.32	1.40	1.28	1.11	0.98	0.92	0.91

WATER YEAR 1972 : Max. 3.01 m. Min. 0.91 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.75	22	3.25	6.40	2.50	84	93	24	51	6.80	3.25	1.75
2	3.75	18	5.60	5.60	2.25	71	109	21	45	5.60	3.25	1.75
3	3.75	11	5.20	4.80	2.00	71	108	18	32	4.80	3.25	1.75
4	3.50	9.20	4.80	4.00	7.20	60	156	18	28	4.80	3.25	1.75
5	3.25	8.40	3.75	4.00	7.20	57	314	18	26	4.80	3.00	1.75
6	3.25	7.60	8.80	4.40	6.00	81	317	29	24	4.80	3.00	1.75
7	3.50	8.40	7.60	4.40	5.20	71	202	101	23	4.80	3.00	1.75
8	4.00	7.20	4.80	3.75	5.20	140	140	108	23	4.80	3.00	1.75
9	6.00	6.40	5.20	3.25	6.80	166	103	87	23	5.20	3.00	1.75
10	5.20	6.00	14	3.25	11	138	84	68	22	5.20	3.00	2.00
11	4.40	5.20	24	4.00	20	104	60	50	20	5.20	3.25	3.50
12	8.00	4.80	23	3.75	39	71	62	54	16	4.80	3.50	3.75
13	42	5.20	16	3.50	31	64	85	54	15	4.80	3.50	3.00
14	50	4.40	11	3.50	21	55	88	34	13	4.40	3.50	3.00
15	34	2.50	9.20	3.75	21	45	106	29	14	4.00	3.50	3.00
16	23	3.50	8.00	4.40	21	33	116	24	22	4.00	3.00	3.00
17	16	3.25	7.20	4.40	20	24	138	19	18	4.00	2.75	3.00
18	13	3.75	6.40	4.40	32	21	190	22	14	4.00	2.75	3.00
19	12	4.80	6.40	4.40	32	24	174	19	13	4.00	2.75	3.00
20	11	4.00	6.00	5.60	24	27	111	26	12	4.00	3.00	3.00
21	9.60	4.00	6.00	6.00	32	30	85	30	12	4.00	3.00	3.00
22	6.80	6.00	5.60	4.40	61	62	72	46	13	4.00	3.00	3.75
23	8.00	5.20	5.60	4.00	57	50	68	65	15	3.75	3.00	4.40
24	7.60	4.40	4.80	4.00	38	40	61	125	13	3.50	2.75	4.00
25	7.20	4.00	4.40	4.00	30	82	50	147	10	3.50	3.00	4.00
26	7.20	3.50	3.75	3.25	147	204	43	151	9.60	3.50	2.50	4.40
27	7.20	3.50	3.25	3.00	283	184	40	166	9.20	3.50	2.25	7.60
28	8.40	3.50	5.60	2.50	180	164	48	88	8.80	3.50	2.00	6.80
29	8.80	3.25	6.40	2.00	151	113	43	61	8.80	3.50		6.00
30	12	3.25	7.20	2.25	100	109	32	48	8.80	3.50		6.00
31		3.25		2.25	92		28		8.40	3.50		6.00
Total	336.15	189.45	232.80	123.20	1,487.35	2,445	3,326	1,750	570.60	134.55	84.00	104.95
Mean	11.2	6.11	7.76	3.97	48.0	81.5	107	58.3	18.4	4.34	3.00	3.38
Max.	50	22	24	6.40	283	204	317	166	51	6.80	3.50	7.60
Min.	3.25	2.50	3.25	2.00	2.00	21	28	18	8.40	3.50	2.00	1.75
Runoff - MCM.	29.043	16.368	20.114	10.644	128.507	211.248	287.366	151.200	49.300	11.625	7.258	9.068

WATER YEAR 1972 : Max. 317 Min. 29.5 Mean 1.75 Annual Runoff 931.742 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.5	12.00	3.32	404				

WANG RIVER BASIN

Mae Wang River at Ban Wang Man, Tak (W4A)

Location: Lat. 17°-12'-22" N., Long. 99°-06'-08" E., on right bank about 200 meters upstream from Wang Man Bridge, Amphoe Sam Ngao, Tak.

Drainage Area: 10,507 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 130.00 m. (M.S.L.)

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

Location: Infront of Wat Wang Man.
Elevation: + 136.07 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: 1971 to date.
Rated by Float: -
Rated by Current Meter: 1971 to date.

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

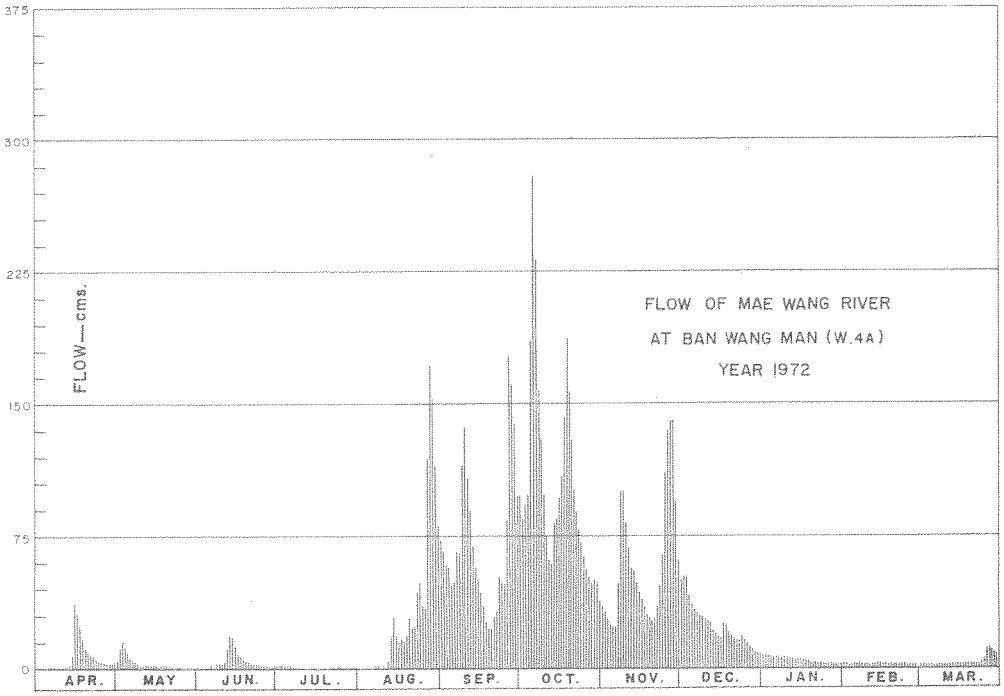
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 55 discharge measurements made in 1972. Upstream state diversions for irrigation of about 12,320 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	130.68	130.98	130.67	130.84	130.63	132.73	133.09	131.96	132.28	131.13	130.90	130.81
2	.68	131.27	.66	.87	.62	.62	132.89	.89	.34	.11	.89	.80
3	.68	.43	.67	.84	.62	.45	133.05	.81	.32	.10	.89	.79
4	.68	.31	.72	.81	.60	.44	.11	.71	.08	.10	.89	.79
5	.69	.16	.78	.78	.59	.23	134.27	.67	131.99	.09	.90	.79
6	130.69	131.04	130.86	130.77	130.68	132.29	135.20	131.65	131.93	131.09	130.90	130.79
7	.69	130.98	.76	.75	.83	.60	134.77	132.05	.88	.08	.90	.79
8	.68	.93	.94	.75	.81	.52	.06	133.12	.85	.08	.90	.80
9	.67	.89	.95	.75	.80	133.40	133.46	.12	.83	.07	.89	.80
10	.69	.87	.94	.73	.79	.62	.01	132.87	.80	.07	.88	.80
11	130.74	130.85	130.91	130.71	130.81	133.31	132.74	132.63	131.78	131.05	130.88	130.79
12	.78	.83	131.36	.70	131.04	132.93	.47	.42	.75	.04	.88	.79
13	.77	.82	.56	.72	.55	.65	.47	.40	.65	.03	.89	.83
14	131.09	.80	.47	.70	.82	.43	.90	.34	.57	.02	.90	.87
15	.99	.79	.38	.69	.55	.30	.93	.12	.52	.01	.89	.86
16	131.81	130.78	131.15	130.68	131.45	132.16	133.19	132.05	131.51	130.99	130.88	130.88
17	.62	.79	.07	.68	.49	131.95	.30	131.96	.73	.98	.86	.84
18	.45	.80	.01	.71	.43	.75	.90	.84	.71	.97	.85	.89
19	.30	.79	130.99	.72	.52	.66	134.22	.81	.61	.96	.84	.92
20	.22	.78	.92	.73	.81	.66	133.84	.76	.55	.95	.84	.88
21	131.15	130.77	130.91	130.73	131.65	131.82	133.27	131.81	131.51	130.94	130.84	130.84
22	.10	.75	.90	.73	.63	.94	132.96	.95	.47	.92	.83	.83
23	.04	.73	.91	.73	132.13	132.33	.82	132.23	.44	.91	.84	.88
24	130.99	.79	.87	.77	.26	.29	.69	.59	.55	.90	.83	.93
25	.96	.78	.86	.74	.02	.16	.59	133.32	.51	.90	.83	131.01
26	130.93	130.75	130.83	130.71	131.79	132.28	132.43	133.60	131.41	130.90	130.82	131.26
27	.93	.74	.80	.70	133.75	134.11	.30	.67	.32	.90	.82	.28
28	.94	.72	.79	.70	134.22	133.90	.23	.67	.25	.89	.81	.20
29	.95	.71	.76	.69	133.70	.62	.51	132.92	.21	.89		.14
30	.98	.69	.79	.67	.35	.08	.26	.58	.19	.90		.09
31		.69		.66	132.84		.05		.16	.91		.08
Mean	130.99	130.87	130.94	130.73	131.63	132.59	133.12	132.39	131.61	131.00	130.87	130.90
Max.	131.99	131.43	131.56	130.87	134.22	134.11	135.20	133.67	132.34	131.13	130.90	131.28
Min.	130.67	130.69	130.66	130.66	130.59	131.66	132.05	131.65	131.16	130.89	130.81	130.79

WATER YEAR 1972 : Max. 135.20 m. Min. 130.59 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	4.60	0.70	2.40	0.30	75	98	36	50	8.25	3.00	2.10
2	0.80	12	0.60	2.70	0.20	68	85	33	53	7.75	2.90	2.00
3	0.80	16	0.70	2.40	0.20	59	95	29	52	7.50	2.90	1.90
4	0.80	13	1.20	2.10	0.00	58	100	25	41	7.50	2.90	1.90
5	0.90	9.00	1.80	1.80	0.00	48	195	24	37	7.25	3.00	1.90
6	0.90	6.00	2.60	1.70	0.80	50	280	23	34	7.25	3.00	1.90
7	0.90	4.60	1.60	1.50	2.30	67	237	40	32	7.00	3.00	1.90
8	0.80	3.60	3.80	1.50	2.10	63	173	100	31	7.00	3.00	2.00
9	0.70	2.90	4.00	1.50	2.00	121	125	100	30	6.75	2.90	2.00
10	0.90	2.70	3.80	1.30	1.90	137	93	84	29	6.75	2.80	2.00
11	1.40	2.50	3.20	1.10	2.10	114	75	69	28	6.25	2.80	1.90
12	1.80	2.30	14	1.00	6.00	87	60	57	27	6.00	2.80	1.90
13	1.70	2.20	20	1.20	19	70	60	56	23	5.75	2.90	2.30
14	7.25	2.00	17	1.00	30	58	85	53	20	5.50	3.00	2.70
15	37	1.90	12	0.90	19	51	87	43	19	5.25	2.90	2.60
16	29	1.80	8.75	0.80	16	45	105	40	18	4.80	2.80	2.80
17	22	1.90	6.75	0.80	18	35	113	36	26	4.60	2.60	2.40
18	16	2.00	5.25	1.10	16	27	159	31	25	4.40	2.50	2.90
19	12	1.90	4.80	1.20	19	23	187	29	21	4.20	2.40	3.40
20	10	1.80	3.40	1.30	29	23	155	27	19	4.00	2.40	2.80
21	8.75	1.70	3.20	1.30	23	30	111	29	18	3.80	2.40	2.40
22	7.50	1.50	3.00	1.30	22	35	89	35	17	3.40	2.30	2.30
23	6.00	1.30	3.20	1.30	43	52	80	48	16	3.20	2.40	2.80
24	4.80	1.90	2.70	1.70	49	50	72	66	19	3.00	2.30	3.60
25	4.20	1.80	2.60	1.40	38	45	66	115	18	3.00	2.30	5.25
26	3.60	1.50	2.30	1.10	29	79	58	136	15	3.00	2.20	11
27	3.60	1.40	2.00	1.00	147	177	51	141	13	3.00	2.20	12
28	3.80	1.20	1.90	1.00	187	159	48	141	11	2.90	2.10	10
29	4.00	1.10	1.60	0.90	143	137	51	87	10	2.90		8.50
30	4.60	0.90	1.90	0.70	117	98	49	66	9.75	3.00		7.25
31		0.90		0.60	82		40		9.00	3.20		7.00
Total	197.30	109.90	140.35	41.60	1,063.90	2,141	3,278	1,799	770.75	158.15	74.70	117.40
Mean	6.58	3.64	4.68	1.34	34.32	71.37	106	59.8	24.9	5.10	2.67	3.82
Max.	37	16	20	2.70	187	177	280	141	53	8.25	3.00	12
Min.	0.70	0.90	0.60	0.60	0.00	23	40	23	9.00	2.90	2.10	1.90
Runoff - mcm.	17.046	9.495	12.126	3.594	91.921	184.982	283.219	155.434	66.593	13.664	6.454	10.143

WATER YEAR 1972 : Max. 280 Min. 0.00 Mean 21.1 Annual Runoff 854.673 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	04.00	135.34	294				

WANG RIVER BASIN

Mae Wang River at Ko Kha Bridge, Lampang (W5A)

Location: Lat. 18°-11'-21" N., Long. 99°-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./R.I.D.

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

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 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.

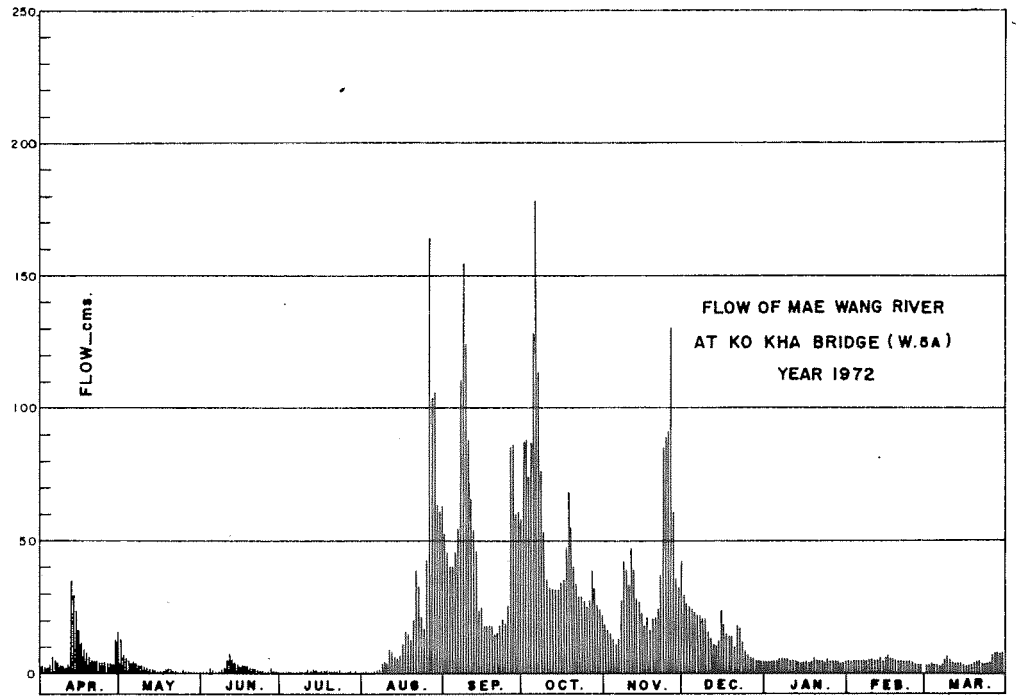
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relationship defined by 48 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	216.19	216.52	216.07	216.04	216.05	217.04	217.41	216.60	216.82	216.29	216.29	216.22
2	.17	.36	.03	.06	.04	.01	.42	.59	.75	.29	.28	.24
3	.15	.32	.10	.07	.04	216.95	.30	.57	.73	.29	.30	.25
4	.21	.28	.15	.05	.05	.96	.46	.53	.72	.29	.30	.23
5	.33	.23	.08	.05	.10	217.05	218.04	.48	.70	.31	.29	.23
6	216.25	216.25	216.07	216.04	216.12	217.14	217.85	216.55	216.69	216.33	216.29	216.21
7	.24	.22	.08	.04	.18	.68	.45	.85	.68	.33	.27	.23
8	.18	.19	.08	.08	.29	.90	.18	.97	.66	.33	.30	.32
9	.19	.16	.17	.08	.28	.67	.08	.92	.66	.31	.31	.35
10	.14	.15	.31	.04	.27	.37	216.88	.86	.58	.29	.31	.29
11	216.23	216.15	216.37	216.11	216.43	217.20	216.84	217.03	216.52	216.30	216.30	216.25
12	.89	.13	.30	.10	.40	.09	.84	216.88	.47	.29	.31	.25
13	.82	.10	.27	.14	.34	.03	.83	.79	.48	.28	.32	.25
14	.70	.08	.21	.11	.33	216.71	.85	.76	.55	.27	.29	.25
15	.58	.07	.19	.08	.42	.73	.89	.67	.71	.27	.35	.21
16	216.47	216.07	216.21	216.12	216.52	216.62	216.90	216.62	216.60	216.28	216.35	216.18
17	.42	.07	.20	.11	.58	.62	217.09	.66	.56	.27	.31	.20
18	.39	.15	.20	.11	.56	.62	.25	.58	.55	.28	.31	.23
19	.34	.18	.15	.10	.48	.61	.05	.66	.54	.33	.30	.26
20	.30	.13	.13	.10	.68	.57	216.90	.66	.46	.30	.29	.28
21	216.28	216.07	216.13	216.07	216.94	216.59	216.84	216.27	216.61	216.29	216.30	216.29
22	.28	.05	.10	.09	.84	.64	.80	217.01	.60	.30	.29	.21
23	.26	.04	.10	.07	.63	.65	.80	.39	.49	.27	.29	.22
24	.25	.04	.07	.04	.58	.63	.77	.43	.40	.32	.29	.25
25	.26	.12	.05	.04	217.01	.78	.73	.45	.35	.27	.27	.29
26	216.23	216.09	216.05	216.04	217.96	217.39	216.77	217.74	216.33	216.29	216.24	216.37
27	.23	.05	.15	.05	.55	.40	.92	.10	.32	.29	.22	.42
28	.24	.03	.10	.06	.56	.17	.80	216.90	.29	.27	.23	.40
29	.53	.05	.07	.05	.19	.18	.73	.84	.28	.25	-	.39
30	.59	.01	.05	.05	.18	.15	.71	.98	.28	.29	-	.41
31	-	.00	-	.05	.20	-	.67	-	.29	.30	-	.50
Mean	216.34	216.14	216.14	216.07	216.61	217.00	217.03	216.86	216.54	216.29	216.29	216.28
Max.	216.89	216.52	216.37	216.14	217.96	217.90	218.04	217.74	216.82	216.33	216.35	216.50
Min.	216.14	216.00	216.03	216.04	216.04	216.57	216.67	216.48	216.28	216.25	216.22	216.18

WATER YEAR 1972 : Max. 218.04 m. Min. 216.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.80	13	0.70	0.40	0.50	48	87	17	30	4.80	4.80	3.40
2	2.40	6.80	0.30	0.60	0.40	45	88	16	26	4.80	4.60	3.80
3	2.00	5.60	1.00	0.70	0.40	40	74	15	25	4.80	5.00	4.00
4	3.20	4.60	2.00	0.50	0.50	41	93	13	24	4.80	5.00	3.60
5	5.90	3.60	0.80	0.50	1.00	48	178	11	23	5.30	4.80	3.60
6	4.00	4.00	0.70	0.40	1.40	57	146	14	22	5.90	4.80	3.20
7	3.80	3.40	0.80	0.40	2.60	121	92	32	22	5.90	4.40	3.60
8	2.60	2.80	0.80	0.80	4.80	154	61	42	21	5.90	5.00	5.60
9	2.80	2.20	2.40	0.80	4.60	120	51	38	21	5.30	5.30	6.50
10	1.80	2.00	5.30	0.40	4.40	82	35	33	16	4.80	5.30	4.80
11	3.60	2.00	7.10	1.20	9.20	63	32	47	13	5.00	5.00	4.00
12	35	1.60	5.00	1.00	8.00	52	32	35	11	4.80	5.30	4.00
13	30	1.00	4.40	1.80	6.20	47	31	28	11	4.60	5.60	4.00
14	23	0.80	3.20	1.20	5.90	24	32	27	14	4.40	4.80	4.00
15	16	0.70	2.80	0.80	8.80	25	35	21	24	4.40	6.50	3.20
16	11	0.70	3.20	1.40	13	18	36	18	17	4.60	6.50	2.60
17	8.80	0.70	3.00	1.20	16	18	52	21	15	4.40	5.30	3.00
18	7.70	2.00	3.00	1.20	15	18	68	16	14	4.60	5.30	3.60
19	6.20	2.60	2.00	1.00	11	18	48	21	14	5.90	5.00	4.20
20	5.00	1.60	1.60	1.00	22	15	36	21	10	5.00	4.80	4.60
21	4.60	0.70	1.60	0.70	39	16	32	27	18	4.80	5.00	4.80
22	4.60	0.50	1.00	0.90	32	19	29	45	17	5.00	4.80	3.20
23	4.20	0.40	1.00	0.70	19	20	29	85	12	4.40	4.80	3.40
24	4.00	0.40	0.70	0.40	16	19	27	90	8.00	5.60	4.80	4.00
25	4.20	1.40	0.50	0.40	45	28	25	92	6.50	4.40	4.40	4.80
26	3.60	0.90	0.50	0.40	164	85	27	130	5.90	4.80	3.80	7.10
27	3.60	0.50	2.00	0.50	104	86	38	53	5.60	4.80	3.40	8.80
28	3.80	0.30	1.00	0.60	106	60	29	36	4.80	4.40	3.60	8.00
29	13	0.50	0.70	0.50	62	62	25	32	4.60	4.00	–	7.70
30	16	0.10	0.50	0.50	61	58	24	42	4.60	4.80	–	8.40
31	–	0.00	–	0.50	63	–	21	–	4.80	5.00	–	12
Total	239.20	67.40	59.60	23.40	846.70	1,506	1,613	1,118	464.80	152.00	137.70	151.50
Mean	7.97	2.17	1.99	0.75	27.3	50.2	52.0	37.3	15.0	4.90	4.92	4.89
Max.	35	13	7.10	1.80	164	154	178	130	30	5.90	6.50	12
Min.	1.80	0.00	0.30	0.40	0.40	15	21	11	4.60	4.00	3.40	2.60
Runoff - mcm.	20.667	5.823	5.149	2.022	73.155	130.118	139.363	96.595	40.159	13.133	11.897	13.090

WATER YEAR 1972 : Max. 178 Min. 0.00 Mean 17.5 Annual Runoff 551.171 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.26	06.00	218.36	240				

WANG RIVER BASIN

Mae Wang River at Tail of Kiu Lom Dam site, Lampang (W10A)

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. - M.S.

Location: on right side of automatic gage building.
Elevation: + 265.638 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: 1967 to date.
Rated by Float: -
Rated by Current Meter: 1967 to date.

Stability of Channel Regimen: Fairly stable by some scouring, no shifting adjustment for flow computation.

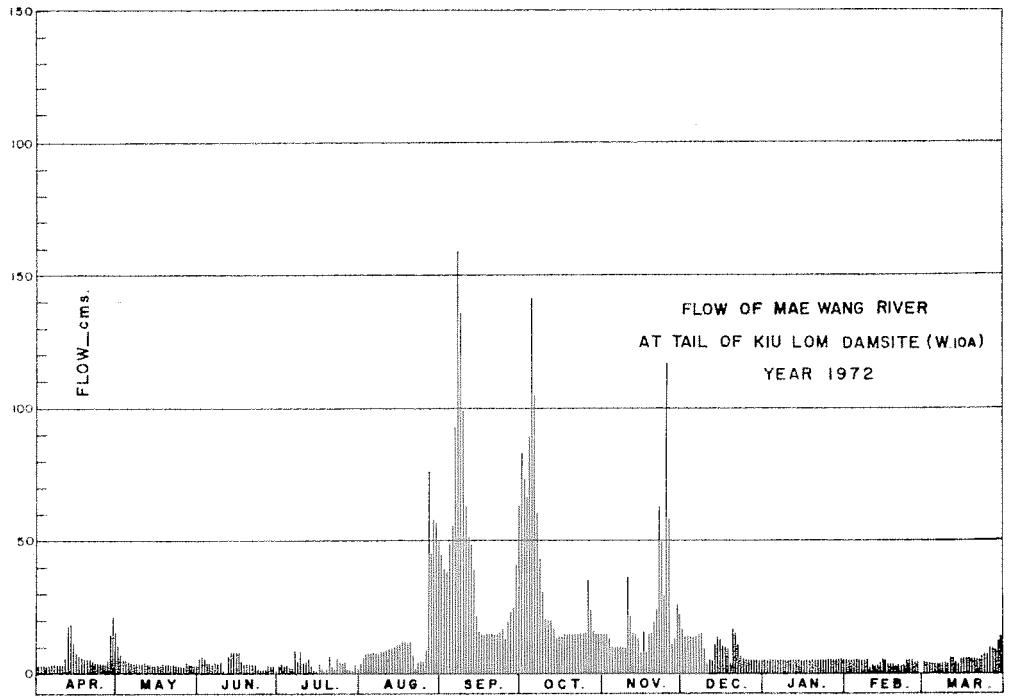
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1972. Flow is under construction of Kiu Lom Dam.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	259.05	259.28	259.18	259.66	259.10	259.99	260.50	259.45	259.43	259.15	259.15	259.11
2	.05	.15	.19	.06	.21	.91	.37	.45	.43	.15	.15	.10
3	.05	.13	.10	.05	.23	.90	.23	.39	.43	.15	.15	.09
4	.04	.11	.06	.05	.24	260.09	.64	.33	.43	.15	.15	.09
5	.04	.10	.07	.02	.24	.17	261.15	.33	.43	.15	.15	.09
6	259.09	259.10	259.06	258.95	259.23	260.66	260.55	259.33	259.44	259.15	259.15	259.09
7	.06	.09	.08	259.27	.22	261.34	.09	.33	.44	.15	.15	.08
8	.06	.08	.07	.07	.22	.64	258.85	.35	.44	.15	.15	.09
9	.06	.07	.09	.26	.25	260.57	.73	.33	.21	.15	.15	.09
10	.06	.10	256.86	.08	.27	.22	.56	.86	.07	.15	.02	.09
11	259.20	259.00	258.84	259.13	259.28	260.09	259.56	259.62	259.15	259.15	259.07	259.18
12	.53	.07	259.24	.15	.31	.05	.56	.44	.15	.15	.05	.17
13	.55	.06	.25	.01	.31	259.91	.48	.44	.36	.15	.06	.08
14	.34	.05	.25	258.95	.33	.60	.39	.40	.43	.15	.12	.08
15	.23	.05	.24	.80	.34	.45	.43	.25	.39	.15	.15	.16
16	259.20	259.05	259.23	259.08	259.35	259.44	259.43	259.48	259.32	259.15	259.13	259.16
17	.17	.09	.09	258.94	.36	.44	.44	.25	.32	.15	.09	.16
18	.15	.09	.07	.86	.36	.44	.44	.45	.30	.15	.09	.16
19	.15	.09	.07	.95	.35	.44	.45	.45	.02	.15	.08	.16
20	.13	.08	.06	259.19	.37	.44	.45	.57	.51	.15	.04	.16
21	259.11	259.07	259.06	259.01	259.23	259.44	259.45	259.63	259.44	259.15	259.08	259.15
22	.10	.06	.04	258.99	258.94	.44	.45	260.25	.31	.15	.07	.15
23	.09	.05	258.97	259.15	259.13	.48	.45	.03	.18	.15	.09	.22
24	.09	.04	.87	.11	.13	.49	.45	259.75	.15	.15	.15	.22
25	.08	.03	.98	.10	.14	.40	.46	260.89	.15	.15	.14	.22
26	259.08	259.04	259.00	259.08	259.36	259.60	259.84	259.69	259.15	259.15	259.13	259.30
27	.15	.10	.04	258.92	260.41	.66	.61	.34	.15	.15	.12	.29
28	.31	.07	.04	.92	.02	.67	.45	.43	.15	.15	.12	.29
29	.59	.04	.04	.92	.18	.99	.45	.69	.15	.15	-	.40
30	.44	.04	259.00	259.06	.16	260.32	.45	.61	.15	.15	-	.43
31	-	.04	-	258.97	.04	-	.45	-	.15	.15	-	.36
Mean	259.21	259.09	259.08	259.05	259.47	259.96	259.81	259.61	259.30	259.15	259.11	259.18
Max.	259.59	259.28	259.25	259.27	260.41	261.34	261.15	260.89	259.51	259.15	259.15	259.43
Min.	259.04	259.03	258.84	258.80	258.94	259.40	259.39	259.25	259.02	259.15	259.02	259.08

WATER YEAR 1972 : Max. 261.34 m. Min. 258.80 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.00	8.90	6.00	3.20	4.00	44	83	15	14	5.25	5.25	4.25
2	3.00	5.25	5.25	3.20	6.80	39	73	15	14	5.25	5.25	4.00
3	3.00	5.25	4.00	3.00	7.40	38	62	13	14	5.25	5.25	3.80
4	2.80	4.25	3.60	3.00	7.70	51	95	10	14	5.25	5.25	3.80
5	2.80	4.00	3.40	2.40	7.70	57	140	10	14	5.25	5.25	3.80
6	3.80	4.00	3.20	1.90	7.40	97	87	10	15	5.25	5.25	3.80
7	3.20	3.80	3.60	8.60	7.10	159	51	10	15	5.25	5.25	3.60
8	3.20	3.60	3.40	3.40	7.10	130	42	10	15	5.25	5.25	3.80
9	3.20	3.40	3.80	8.30	8.00	89	28	10	6.80	5.25	5.25	3.80
10	3.20	4.00	0.60	3.60	8.60	61	20	36	3.40	5.25	2.40	3.80
11	6.50	3.80	0.40	4.75	8.90	51	20	22	5.25	5.25	3.40	6.00
12	18	3.40	7.70	5.25	9.35	48	20	15	5.25	5.25	3.00	5.75
13	19	3.20	8.00	2.20	9.35	39	16	15	12	5.25	3.20	3.60
14	11	3.00	8.00	1.50	10	21	13	13	14	5.25	4.50	3.60
15	7.40	3.00	7.70	0.00	11	15	14	8.00	13	5.25	5.25	5.50
16	6.50	3.00	7.40	3.80	11	15	14	16	10	5.25	4.75	5.50
17	5.75	3.80	3.80	1.40	12	15	15	8.00	10	5.25	3.80	5.50
18	5.25	3.80	3.40	0.60	12	15	15	15	9.50	5.25	3.80	5.50
19	5.25	3.80	3.40	1.50	11	15	15	15	2.40	5.25	3.60	5.50
20	5.25	3.60	3.20	6.25	12	15	15	20	17	5.25	2.80	5.50
21	4.25	3.40	3.20	2.20	7.40	15	15	23	15	5.25	3.60	5.25
22	4.00	3.20	2.80	1.90	1.40	15	15	63	9.85	5.25	3.40	5.25
23	3.80	3.00	1.70	5.25	4.75	16	15	47	6.90	5.25	3.80	7.10
24	3.80	2.80	0.70	4.25	4.75	17	15	29	5.25	5.25	5.25	7.10
25	3.60	2.60	1.80	4.00	5.00	13	15	117	5.25	5.25	5.00	9.10
26	3.60	2.80	2.00	3.60	12	21	35	26	5.25	5.25	4.75	9.50
27	5.25	4.00	2.80	1.20	76	24	22	11	5.25	5.25	4.40	9.20
28	17	3.40	2.80	1.20	45	25	15	14	5.25	5.25	4.00	9.20
29	21	2.80	2.80	1.20	58	44	15	26	5.25	5.25	–	13
30	15	2.80	1.00	3.20	56	69	15	22	5.25	5.25	–	14
31	–	2.80	–	1.70	48	–	15	–	5.25	5.25	–	12
Total	202.40	114.45	112.45	97.15	496.70	1,273	1,030	664	296.45	162.75	122.35	189.10
Mean	6.75	3.69	3.75	3.13	16.0	42.4	33.2	22.1	9.56	5.25	4.37	6.10
Max.	21	8.90	8.00	8.60	76	159	140	117	17	5.25	5.25	14
Min.	2.80	2.60	0.40	0.00	1.40	13	13	8.00	2.40	5.25	2.40	3.60
Runoff – mcm.	17.487	9.888	9.716	8.394	42.915	109.987	88.992	57.370	25.613	14.061	10.571	16.338

WATER YEAR 1972 : Max. 159 Min. 0.00 Mean 13.0 Annual Runoff 411.333 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.6	19.00	261.42	167				

WANG RIVER BASIN

Mae Chang River at Ban Sop Po, Lampang (W15A)

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: Water-stage recorder.

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

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

Location: Infront of the camp of station W15
Elevation: + 251.680 m. (M.S.L.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April - July. Recording on August - March.

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

Period of Available Gage Records: 1972 to date.

Rating Operation:

Period of Rating: 1972-1974
Rated by Float: -
Rated by Current Meter: 1972-1974.

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

Overbank Flow Conditions: No overbank flow.

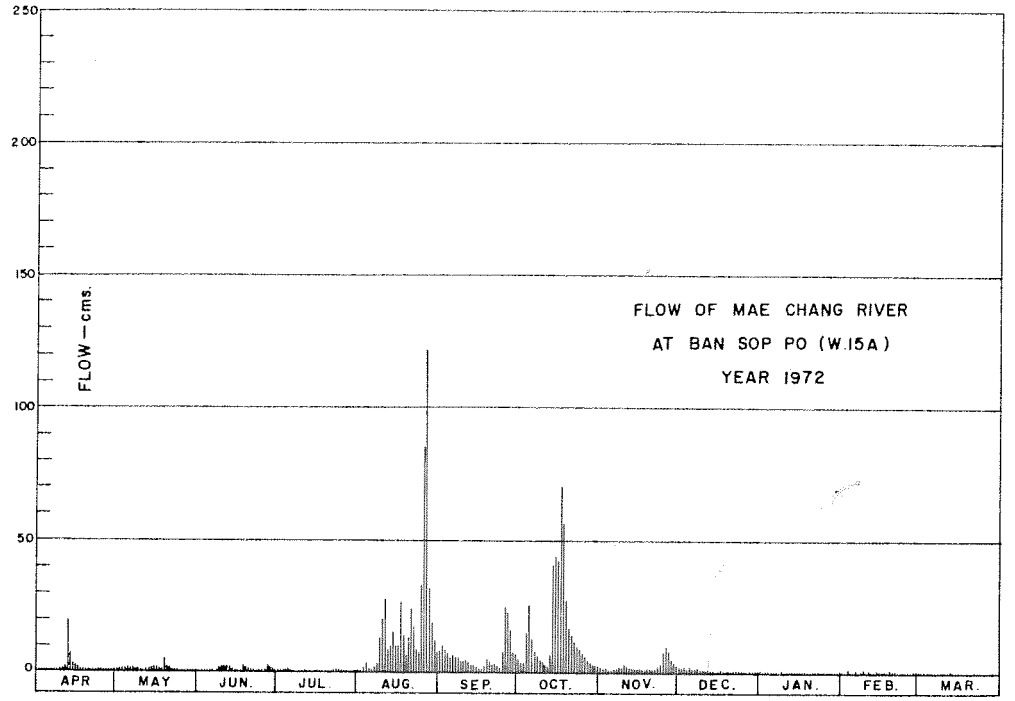
General Description: Records good. Stage discharge relation defined by 237 discharge measurements made in 1972.

Remarks: Period of record April 1 - July 31 used gage height at staff gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	240.72	240.77	240.76	240.90	240.87	241.47	241.26	241.08	241.07	240.85	240.79	240.77
2	.72	.77	.75	.92	241.55	.58	.22	.05	.01	.84	.78	.76
3	.72	.76	.75	.91	.19	.47	.17	.03	.00	.83	.78	.76
4	.72	.78	.81	.90	.15	.38	242.00	.02	240.99	.84	.79	.76
5	.72	.78	.93	.94	.03	.33	.12	.01	.99	.85	.80	.76
6	240.71	240.76	240.81	240.92	241.03	241.35	241.66	241.02	241.00	240.84	240.79	240.77
7	.71	.76	.82	.89	.17	.32	.44	.06	240.98	.82	.80	.77
8	.71	.75	.90	.87	.43	.29	.32	.07	.96	.82	.80	.78
9	.70	.75	241.05	.83	.92	.26	.22	.11	.95	.82	.80	.78
10	.70	.75	.12	.83	242.02	.24	.16	.08	.93	.82	.80	.77
11	240.74	240.72	241.08	240.83	242.20	241.26	241.12	241.07	240.92	240.82	240.79	240.77
12	241.94	.72	.03	.82	241.52	.19	.12	.05	.93	.81	.79	.78
13	.14	.71	240.94	.81	.67	.13	.56	.04	.94	.82	.80	.77
14	.11	.71	.92	.78	.82	.09	242.54	.03	.92	.81	.78	.77
15	240.97	.73	.89	.78	.54	.06	.55	.01	.90	.81	.78	.77
16	240.94	240.73	240.88	240.81	241.64	241.03	242.52	241.01	240.89	240.81	240.78	240.77
17	.93	.72	.86	.86	242.15	.01	243.03	.00	.88	.81	.78	.77
18	.89	.84	241.12	.87	241.63	.15	242.64	240.99	.87	.81	.78	.78
19	.87	241.29	240.97	.84	.35	.29	241.99	241.00	.86	.80	.78	.77
20	.85	240.73	241.02	.82	.86	.15	.82	.01	.86	.80	.77	.77
21	240.82	240.93	240.89	240.90	242.07	241.16	241.74	241.04	240.86	240.80	240.77	240.77
22	.82	.86	.86	.94	241.82	.15	.66	.11	.85	.80	.77	.77
23	.86	.83	.85	241.03	.48	.11	.55	.06	.85	.80	.77	.76
24	.83	.81	.84	240.95	.42	.10	.46	.24	.85	.80	.77	.76
25	.86	.81	.83	.89	242.92	.52	.45	.47	.84	.80	.77	.76
26	240.83	240.82	240.82	240.86	243.74	242.10	241.32	241.54	240.84	240.80	240.77	240.78
27	.81	.82	241.12	.86	242.45	.00	.25	.40	.84	.82	.77	.78
28	.81	.81	.02	.85	.05	241.63	.18	.26	.84	.80	.77	.78
29	.81	.80	240.96	.83	241.79	.43	.15	.16	.83	.80	-	.78
30	.78	.78	.93	.83	.54	.34	.13	.10	.83	.80	-	.77
31	-	.77	-	.82	.45	-	.10	-	.84	.80	-	.76
Mean	240.85	240.79	240.91	240.86	241.72	241.31	241.62	241.10	240.90	240.81	240.78	240.77
Max.	241.94	241.29	241.12	241.03	243.74	242.10	243.03	241.54	241.07	240.85	240.80	240.78
Min.	240.70	240.71	240.75	240.78	240.87	241.01	241.10	240.99	240.83	240.80	240.77	240.76

WATER YEAR 1972 : Max. 243.74 m. Min. 240.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.10	0.35	0.30	1.00	0.85	8.05	4.90	2.30	2.20	0.75	0.45	0.35
2	0.10	0.35	0.25	1.10	9.50	10	4.30	2.00	1.60	0.70	0.40	0.30
3	0.10	0.30	0.25	1.05	3.85	8.05	3.55	1.80	1.50	0.65	0.40	0.30
4	0.10	0.40	0.55	1.00	3.25	6.70	21	1.70	1.45	0.70	0.45	0.30
5	0.10	0.40	1.15	1.20	1.80	5.95	26	1.60	1.45	0.75	0.50	0.30
6	0.05	0.30	0.55	1.10	1.80	6.25	12	1.70	1.50	0.70	0.45	0.35
7	0.05	0.30	0.60	0.95	3.55	5.80	7.60	2.10	1.40	0.60	0.50	0.35
8	0.05	0.25	1.00	0.85	4.45	5.35	5.80	2.20	1.30	0.60	0.50	0.40
9	0.00	0.25	2.00	0.65	19	4.90	4.30	2.65	1.25	0.60	0.50	0.40
10	0.00	0.25	2.80	0.65	22	4.60	3.40	2.30	1.15	0.60	0.50	0.35
11	0.20	0.10	2.30	0.65	28	4.90	2.80	2.20	1.00	0.60	0.49	0.35
12	19	0.10	1.80	0.60	8.90	3.85	2.80	2.00	1.50	0.55	0.49	0.40
13	3.10	0.05	1.20	0.55	12	2.95	10	1.90	1.20	0.60	0.50	0.35
14	2.65	0.05	1.10	0.40	16	2.40	43	1.80	1.10	0.55	0.40	0.35
15	1.35	0.15	0.95	0.40	9.30	2.10	44	1.60	1.00	0.55	0.40	0.35
16	1.20	0.15	0.88	0.55	11	1.80	42	1.60	0.95	0.55	0.40	0.35
17	1.15	0.10	0.80	0.80	27	1.60	71	1.50	0.90	0.55	0.40	0.35
18	0.95	0.70	2.80	0.85	11	3.25	49	1.45	0.85	0.55	0.40	0.40
19	0.85	5.35	1.35	0.70	6.25	5.35	21	1.50	0.80	0.50	0.40	0.35
20	0.75	1.15	1.70	0.60	17	3.25	16	1.60	0.80	0.50	0.35	0.35
21	0.60	1.15	0.95	1.00	24	3.40	13	1.90	0.80	0.50	0.35	0.35
22	0.60	0.80	0.80	1.20	16	3.25	12	2.65	0.75	0.50	0.35	0.35
23	0.80	0.65	0.75	1.80	8.20	2.65	9.50	2.10	0.75	0.50	0.35	0.30
24	0.65	0.55	0.70	1.25	7.30	2.50	7.90	4.60	0.75	0.50	0.35	0.30
25	0.80	0.55	0.65	0.95	65	8.90	7.75	8.05	0.70	0.50	0.35	0.30
26	0.65	0.60	0.60	0.80	122	25	5.80	9.30	0.70	0.50	0.35	0.40
27	0.55	0.60	2.80	0.80	39	21	4.75	7.00	0.70	0.60	0.35	0.40
28	0.55	0.55	1.70	0.75	23	11	3.70	4.90	0.70	0.50	0.35	0.40
29	0.55	0.50	1.30	0.65	15	7.45	3.25	3.40	0.65	0.50	–	0.40
30	0.40	0.40	1.15	0.65	9.30	6.10	2.95	2.50	0.65	0.50	–	0.35
31	–	0.35	–	0.60	7.75	–	2.50	–	0.70	0.50	–	0.30
Total	38.00	17.75	35.73	26.10	553.05	188.35	467.55	83.90	32.85	17.75	11.68	10.85
Mean	1.26	0.57	1.19	0.84	17.8	6.27	15.1	2.79	1.05	0.57	0.41	0.35
Max.	19	5.35	2.80	1.80	122	25	71	9.30	2.20	0.75	0.50	0.40
Min.	0.00	0.05	0.25	0.40	0.85	1.60	2.50	1.45	0.65	0.50	0.35	0.30
Runoff – MCM.	3.283	1.534	3.087	2.255	47.783	16.273	40.396	7.249	2.838	1.534	1.009	0.937

WATER YEAR 1972 : Max. 122 Min. 0.00 Mean 4.06 Annual Runoff 128.179 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.26	01.00	244.83	218				

WANG RIVER BASIN

Mae Wang River at Ban Hai, Lampang (W16)

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: 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 to date.
Rated by Float: -
Rated by Current Meter: 1971 to date.

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

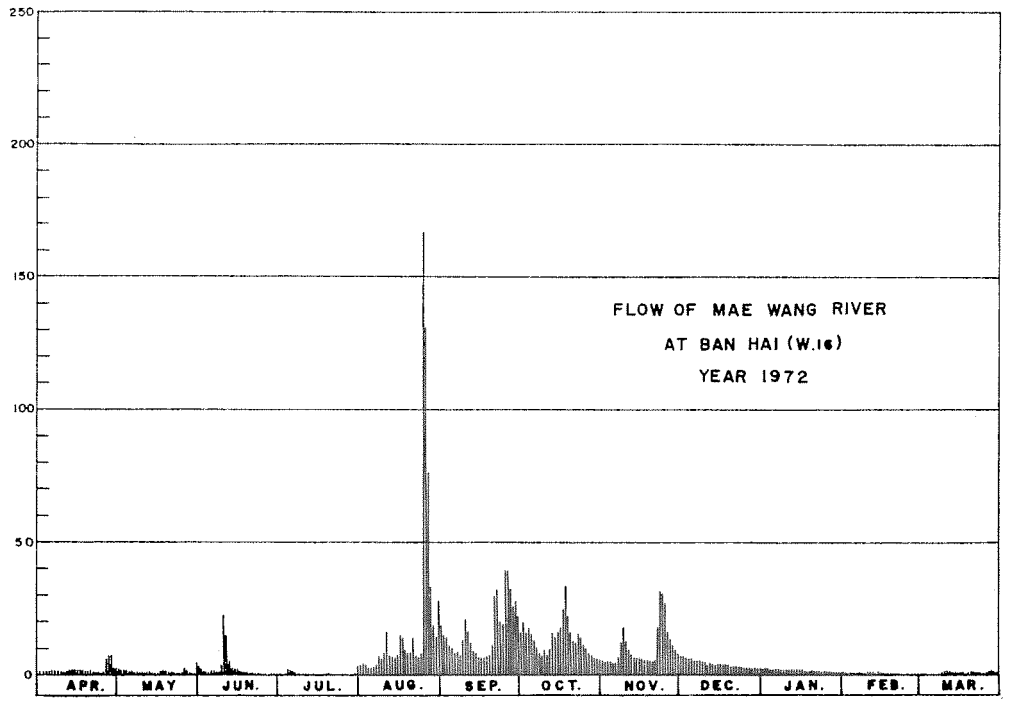
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 283 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.38	0.52	0.58	0.31	0.75	1.42	1.36	0.87	0.99	0.59	0.46	0.33
2	.38	.49	.46	.34	.78	.30	.48	.84	.97	.59	.45	.33
3	.39	.47	.42	.39	.70	.26	.36	.83	.94	.58	.45	.33
4	.39	.47	.40	.59	.63	.16	.41	.82	.91	.57	.45	.33
5	.44	.45	.50	.54	.61	.09	.34	.80	.89	.57	.44	.31
6	0.44	0.43	0.48	0.44	0.68	1.04	1.22	0.81	0.87	0.57	0.44	0.31
7	.43	.42	.46	.40	.74	.07	.11	1.01	.85	.57	.44	.28
8	.43	.42	.44	.38	.99	.01	.04	.30	.84	.57	.43	.46
9	.42	.42	.68	.36	.88	.31	0.98	.42	.83	.57	.43	.50
10	.41	.41	1.54	.35	1.05	.51	1.08	.22	.82	.57	.43	.52
11	0.45	0.40	1.27	0.33	1.34	1.32	1.00	1.08	0.81	0.57	0.43	0.53
12	.51	.44	0.86	.32	0.99	.17	.11	0.99	.80	.58	.44	.50
13	.53	.41	.68	.32	.95	.03	.33	.94	.77	.59	.43	.48
14	.55	.40	.60	.33	.94	.02	.27	.92	.79	.59	.44	.46
15	.52	.40	.57	.31	.92	0.94	.33	.90	.80	.58	.43	.44
16	0.49	0.40	0.50	0.32	1.30	0.96	1.41	0.89	0.79	0.57	0.42	0.43
17	.47	.46	.43	.33	.26	.94	.68	.88	.76	.54	.41	.42
18	.45	.48	.41	.35	.08	.97	.85	.86	.74	.73	.41	.42
19	.44	.46	.38	.38	.03	1.02	.48	.84	.73	.52	.40	.45
20	.43	.43	.36	.34	.06	.19	.30	.85	.71	.51	.39	.44
21	0.42	0.40	0.35	0.32	1.27	1.75	1.24	0.95	0.69	0.51	0.38	0.42
22	.42	.38	.34	.31	.02	.81	.24	1.47	.68	.49	.38	.42
23	.41	.37	.33	.31	0.92	.50	.34	.79	.66	.51	.38	.41
24	.40	.37	.31	.30	.97	.30	.25	.77	.64	.52	.39	.39
25	.39	.39	.31	.30	4.03	.99	.16	.70	.63	.51	.38	.38
26	0.84	0.57	0.30	0.30	3.34	1.98	1.08	1.37	0.61	0.51	0.37	0.52
27	1.00	.45	.31	.30	2.08	.86	.02	.25	.60	.49	.35	.59
28	0.98	.40	.37	.30	1.71	.65	0.97	.15	.60	.49	.34	.52
29	.64	.38	.35	.31	1.44	.70	.95	.07	.60	.48	-	.49
30	.57	.36	.32	.32	.28	.51	.91	.02	.60	.46	-	.47
31	-	.74	-	.70	.71	-	.87	-	.60	.47	-	.45
Mean	0.50	0.44	0.53	0.36	1.24	1.33	1.23	1.08	0.76	0.52	0.41	0.43
Max.	1.00	0.74	1.54	0.70	4.03	1.99	1.85	1.79	0.99	0.59	0.46	0.59
Min.	0.38	0.36	0.30	0.30	0.61	0.94	0.87	0.80	0.60	0.46	0.34	0.28

WATER YEAR 1972 : Max. 4.03 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.68	1.70	2.30	0.26	4.15	18	16	5.78	7.36	2.40	1.22	0.38
2	0.68	1.43	1.22	0.44	4.54	15	20	5.36	7.08	2.40	1.15	0.38
3	0.74	1.29	0.94	0.74	3.50	14	16	5.22	6.66	2.30	1.15	0.38
4	0.74	1.29	0.80	2.40	2.80	11	18	5.08	6.24	2.20	1.15	0.38
5	1.08	1.15	1.50	1.90	2.60	9.75	16	4.80	6.06	2.20	1.08	0.26
6	1.08	1.01	1.36	1.08	3.30	8.50	13	4.94	5.78	2.20	1.08	0.26
7	1.01	0.94	1.22	0.80	4.02	9.25	11	7.75	5.50	2.20	1.08	0.12
8	1.01	0.94	1.08	0.68	7.36	7.75	8.50	15	5.36	2.20	1.01	1.22
9	0.94	0.94	3.30	0.56	5.92	15	7.22	18	5.22	2.20	1.01	1.50
10	0.87	0.87	22	0.50	8.75	21	9.50	13	5.08	2.20	1.01	1.70
11	1.15	0.80	14	0.38	16	15	7.50	9.50	4.94	2.20	1.01	1.80
12	1.60	1.08	5.54	0.32	7.36	12	10	7.36	4.80	2.30	1.08	1.50
13	1.80	0.87	3.30	0.32	6.80	8.25	16	6.66	4.41	2.40	1.01	1.36
14	2.00	0.80	2.50	0.38	6.66	8.00	14	6.38	4.67	2.40	1.08	1.22
15	1.70	0.80	2.20	0.26	6.38	6.66	16	6.10	4.80	2.30	1.01	1.08
16	1.43	0.80	1.50	0.32	15	6.94	18	6.06	4.67	2.20	0.94	1.01
17	1.29	1.22	1.01	0.38	14	6.66	27	5.92	4.28	1.90	0.87	0.94
18	1.15	1.36	0.87	0.50	9.50	7.08	34	5.54	4.02	1.80	0.87	0.94
19	1.08	1.22	0.68	0.68	8.25	8.00	20	5.36	3.89	1.70	0.80	1.15
20	1.01	1.08	0.56	0.44	9.00	12	15	5.50	3.63	1.60	0.74	1.08
21	0.94	0.80	0.50	0.32	14	30	13	6.80	3.40	1.60	0.68	0.94
22	0.94	0.68	0.44	0.26	8.00	32	13	20	3.30	1.43	0.68	0.94
23	0.87	0.62	0.38	0.26	6.38	21	16	32	3.10	1.60	0.68	0.87
24	0.80	0.62	0.26	0.20	7.08	15	14	31	2.90	1.70	0.74	0.74
25	0.74	0.74	0.26	0.20	167	39	11	28	2.80	1.60	0.68	0.68
26	5.36	2.20	0.20	0.20	118	39	9.75	17	2.60	1.60	0.62	1.70
27	7.50	1.15	0.26	0.20	44	34	8.00	14	2.50	1.43	0.50	2.40
28	7.22	0.80	0.62	0.20	28	26	7.08	11	2.50	1.43	0.44	1.70
29	2.90	0.68	0.50	0.26	19	28	6.80	9.25	2.50	1.36	–	1.43
30	2.20	0.56	0.32	0.32	14	21	6.24	8.00	2.50	1.22	–	1.29
31	–	4.02	–	3.50	28	–	5.78	–	2.50	1.29	–	1.15
Total	52.51	34.46	71.62	19.26	599.35	504.84	423.37	326.36	135.05	59.56	25.37	32.50
Mean	1.75	1.11	2.39	0.62	19.3	16.8	13.7	10.9	4.36	1.92	0.91	1.05
Max.	7.50	4.02	22	3.50	167	39	34	32	7.36	2.40	1.22	2.40
Min.	0.68	0.56	0.20	0.20	2.60	6.66	5.78	4.80	2.50	1.22	0.44	0.12
Runoff – mcm.	4.537	2.977	6.188	1.664	51.784	43.618	36.579	28.197	11.668	5.146	2.192	2.808

WATER YEAR 1972 : Max. 167 Min. 0.12 Mean 6.26 Annual Runoff 197.359 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.25	22.00	5.73	306				

YOM RIBER BASIN

Mae Yom River at Wat Si Suphan, Phrae (Y1B)

Location: Lat. 18°-08'-29" N., Long. 100°-07'-41" E., on right bank beside the Wat Si Suphan, Tambon Pa Mad, Amphoe Muang, Phrae.

Drainage Area: 7,622 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 143.60 m. (M.S.L.)

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

Location: on right bank near automatic gage building.
Elevation: + 153.660 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: 1972 to date.

Rating Operation:

Period of Rating: 1974 to date.
Rated by Float: -
Rated by Current Meter: 1974 to date.

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

Overbank Flow Conditions: No overbank flow.

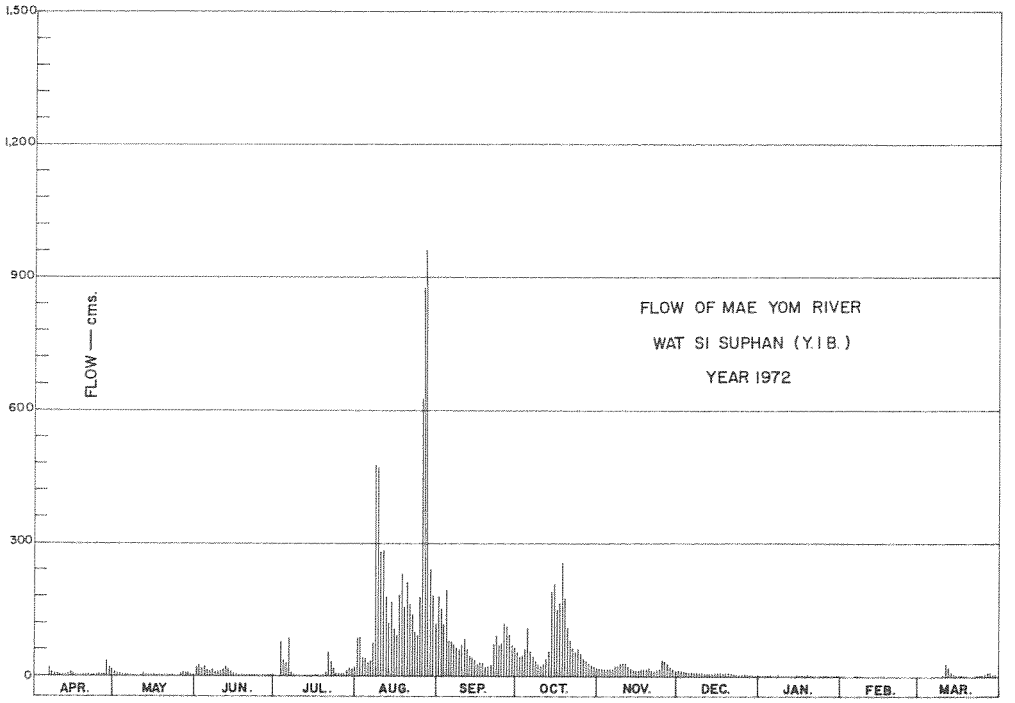
General Description: Records fair. Stage-discharge relation defined by 177 discharge measurements made in 1974. Upstream State diversions for irrigation of about 24,000 hectares at Mae Yom Weir.

Remarks: Stream gaging began on April 6, 972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		144.79	144.98	144.45	145.92	146.86	145.57	144.99	144.85	144.61	144.45	144.42
2		.69	145.12	.70	.98	.60	.48	.96	.85	.62	.45	.42
3		.66	144.94	145.88	.42	.21	.48	.95	.83	.61	.45	.42
4		.63	145.00	.33	.36	.96	.72	.94	.78	.61	.45	.42
5		.61	144.86	.20	.18	145.89	146.24	.92	.78	.60	.45	.44
6	145.04	144.58	144.78	145.94	145.26	145.88	145.57	144.88	144.78	144.60	144.47	144.42
7	144.79	.55	.91	144.75	.84	.77	.38	145.06	.74	.58	.47	.42
8	.72	.53	.78	.67	148.85	.68	.23	.08	.73	.57	.47	.51
9	.70	.52	.70	.64	.81	.65	.13	.19	.70	.57	.47	.53
10	.64	.50	.73	.59	147.59	.81	.06	.24	.70	.56	.47	.50
11	144.64	144.50	144.89	144.56	147.61	145.95	145.16	145.16	144.69	144.56	144.45	145.17
12	.65	.69	145.05	.55	146.93	.65	.35	.03	.69	.55	.45	144.97
13	.64	.56	144.96	.55	.31	.44	.62	144.95	.69	.55	.45	.74
14	.67	.66	.82	.54	.76	.40	146.96	.94	.72	.55	.45	.67
15	.67	.58	.70	.53	.33	.30	147.08	.89	.73	.55	.43	.59
16	144.64	144.56	144.65	144.54	146.04	145.15	146.56	144.86	144.75	144.53	144.42	144.55
17	.63	.54	.60	.56	.91	.24	.72	.94	.70	.55	.42	.48
18	.63	.48	.62	.57	147.22	.21	147.41	.94	.69	.56	.42	.44
19	.61	.49	.58	.65	146.61	144.97	146.66	.93	.73	.56	.42	.43
20	.59	.47	.55	.67	147.10	145.08	.13	145.03	.74	.55	.42	.43
21	144.58	144.45	144.56	145.57	146.68	145.11	145.81	144.82	144.72	144.52	144.42	144.43
22	.57	.43	.52	.23	.53	.85	.68	.84	.69	.52	.42	.43
23	.54	.44	.50	144.96	.19	146.08	.59	.89	.64	.52	.42	.43
24	.54	.59	.49	.75	.02	145.79	.67	.95	.64	.51	.42	.43
25	.54	.56	.46	.70	.80	.85	.53	145.34	.64	.50	.42	.57
26	144.53	144.59	144.45	144.68	150.74	146.32	145.39	145.25	144.62	144.48	144.42	144.66
27	.58	.70	.45	.68	151.31	.27	.26	.11	.62	.47	.42	.68
28	145.27	.68	.45	.88	147.97	.07	.19	.01	.61	.45	.42	.73
29	.00	.71	.44	.96	147.09	145.86	.13	144.95	.61	.45	-	.60
30	144.89	.60	.44	.94	146.56	.74	.05	.85	.62	.45	-	.66
31	-	.53	-	.98	.24	-	.00	-	.61	.45	-	.65
Mean	144.69	144.57	144.70	144.85	146.91	145.79	145.74	145.00	144.71	144.54	144.44	144.56
Max.	145.27	144.79	145.12	145.94	151.31	146.96	147.41	145.34	144.85	144.62	144.47	145.17
Min.	144.53	144.43	144.44	144.45	145.18	144.97	145.00	144.82	144.61	144.45	144.42	144.42

WATER YEAR 1972 : Max. 151.31 m. Min. 144.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		11	19	1.00	83	182	54	19	13	4.30	1.00	0.40
2		6.70	26	7.00	88	151	47	18	13	4.60	1.00	0.40
3		5.80	17	79	43	110	47	17	13	4.30	1.00	0.40
4		4.90	20	38	40	195	66	17	10	4.30	1.00	0.40
5		4.30	13	30	29	80	110	16	10	4.00	1.00	0.80
6	22	3.60	10	85	34	79	54	14	10	4.00	1.40	0.40
7	11	3.00	15	9.00	76	70	41	23	8.60	3.60	1.40	0.40
8	7.80	2.60	10	6.10	476	62	32	24	8.20	3.40	1.40	2.20
9	7.00	2.40	7.00	5.20	470	60	26	29	7.00	3.40	1.40	2.60
10	5.20	2.00	8.20	3.80	281	73	23	32	7.00	3.20	1.40	2.00
11	5.20	2.00	15	3.20	283	85	28	28	6.70	3.20	1.00	28
12	5.50	6.70	22	3.00	191	60	39	21	6.70	3.00	1.00	18
13	5.20	3.20	18	3.00	120	44	58	17	6.70	3.00	1.00	8.60
14	6.10	5.80	12	2.80	169	42	195	17	7.80	3.00	1.00	6.10
15	6.10	3.60	7.00	2.60	120	36	210	15	8.20	3.00	0.60	3.80
16	5.20	3.20	5.50	2.80	90	27	147	13	9.00	2.60	0.40	3.00
17	4.90	2.80	4.00	3.20	188	32	164	17	7.00	3.00	0.40	1.60
18	4.90	1.60	4.60	3.40	229	31	255	17	6.70	3.20	0.40	0.80
19	4.30	1.80	3.60	5.50	152	18	158	16	8.20	3.20	0.40	0.60
20	3.80	1.40	3.00	6.10	213	24	100	21	8.60	3.00	0.40	0.60
21	3.60	1.00	3.20	54	160	25	73	12	7.80	2.40	0.40	0.60
22	3.40	0.60	2.40	32	143	76	62	13	6.70	2.40	0.40	0.60
23	2.80	0.80	2.00	18	101	91	55	15	5.20	2.40	0.40	0.60
24	2.80	1.80	1.80	9.00	90	71	62	17	5.20	2.20	0.40	0.60
25	2.80	3.20	1.20	7.00	174	76	50	38	5.20	2.00	0.40	3.40
26	2.60	3.80	1.00	6.40	831	120	41	33	4.60	1.60	0.40	5.80
27	3.60	7.00	1.00	6.40	960	111	34	25	4.60	1.40	0.40	6.40
28	34	6.40	1.00	14	881	91	29	20	4.30	1.00	0.40	8.20
29	20	7.40	0.80	18	212	77	26	17	4.30	1.00	–	4.00
30	15	4.00	0.80	17	147	67	22	13	4.60	1.00	–	5.80
31	–	2.60	–	19	110	–	20	–	4.30	1.00	–	5.50
Total	194.80	117.00	255.10	500.50	7,184	2,266	2,328	594	232.20	87.70	21.80	122.60
Mean	7.79	3.77	8.50	16.1	232	75.5	75.1	19.8	7.49	2.83	0.78	3.95
Max.	34	11	26	85	960	195	255	38	13	4.60	1.40	28
Min.	2.60	0.60	0.80	1.00	29	18	20	12	4.30	1.00	0.40	0.40
Runoff - mcm.	16.831	10.109	22.041	43.243	620.698	195.782	201.139	51.322	20.062	7.577	1.883	10.593

WATER YEAR 1972 : Max. 960 Min. 0.40 Mean 38.6 Annual Runoff 1,201.280 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 27, 72	6.00	151.75	1,073				

YOM RIVER BASIN

Mae Yom River at Sawankhalok Bridge, Sukhothai (Y3A)

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: 1957 to date.

Rating Operation:

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

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

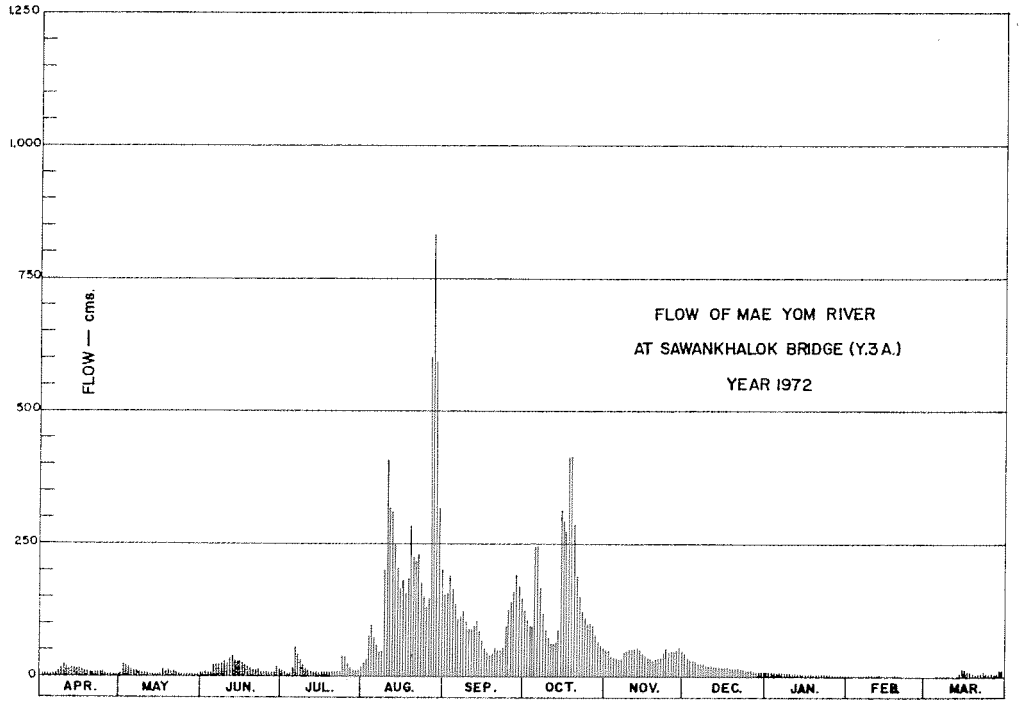
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 50 discharge measurements made in 1972. Upstream State diversions for irrigation of about 24,000 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	51.57	51.74	51.65	51.81	52.13	54.01	53.66	52.65	52.57	51.84	51.59	51.48
2	.55	52.16	.72	.72	.23	.03	.50	.55	.43	.82	.58	.48
3	.54	.05	.68	.67	53.10	.38	.37	.49	.37	.81	.57	.48
4	.53	51.94	.68	.64	.36	.07	.28	.44	.36	.78	.56	.48
5	.60	.84	52.17	.94	.01	53.72	54.91	.40	.30	.77	.55	.48
6	51.61	51.77	52.17	52.75	52.78	53.48	54.93	52.37	52.27	51.79	51.56	51.48
7	.75	.72	.11	.51	.58	.47	.15	.36	.24	.77	.55	.48
8	.96	.68	.18	.36	.56	.69	53.63	.60	.23	.76	.55	.49
9	52.09	.66	.23	.19	54.53	.46	.28	.64	.18	.75	.55	.51
10	.01	.64	.17	51.96	56.35	.27	.05	.66	.15	.74	.55	.49
11	51.92	51.61	52.37	51.88	55.58	53.21	52.86	52.69	52.13	51.72	51.55	51.49
12	.96	.57	.46	.81	.48	.34	.86	.69	.13	.72	.55	.49
13	.94	.57	.26	.77	.06	.42	.91	.71	.12	.72	.55	.52
14	.90	.55	.22	.73	54.44	.17	53.85	.64	.10	.71	.55	.70
15	.90	.53	.24	.69	.14	52.94	55.56	.55	.07	.70	.54	.98
16	51.86	51.63	52.19	51.66	54.32	52.76	55.45	52.48	52.07	51.68	51.53	51.91
17	.80	.84	.10	.66	.02	.61	.17	.43	.08	.67	.53	.84
18	.77	.75	.01	.65	.34	.50	56.38	.38	.06	.67	.53	.78
19	.76	.78	51.94	.64	55.27	.55	.40	.33	.06	.67	.53	.71
20	.74	.72	.86	.67	54.73	.72	55.46	.34	.04	.67	.53	.66
21	51.75	51.77	51.85	51.71	54.64	52.63	54.49	52.37	52.02	51.67	51.52	51.70
22	.71	.69	.87	.73	.79	.61	53.97	.41	51.99	.67	.51	.78
23	.65	.63	.77	.77	.27	.73	.68	.62	.96	.66	.51	.73
24	.65	.61	.74	52.46	.04	53.05	.55	.70	.96	.65	.51	.69
25	.63	.59	.71	.42	53.76	.73	.37	.61	.94	.65	.50	.67
26	51.62	51.56	51.67	52.19	53.96	53.88	53.38	52.64	51.90	51.63	51.49	51.68
27	.59	.55	.65	.01	57.93	54.18	.28	.62	.88	.62	.49	.65
28	.60	.52	.71	51.90	59.70	.40	.07	.65	.85	.61	.48	.66
29	.61	.59	.99	.85	57.22	.20	52.91	.79	.85	.61	-	.91
30	.60	.56	.94	.82	55.27	53.90	.80	.70	.85	.60	-	.93
31	-	.66	-	.96	54.46	-	.74	-	.85	.59	-	.85
Mean	51.75	51.69	52.01	51.96	54.70	53.46	54.05	52.55	52.11	51.70	51.54	51.67
Max.	52.09	52.16	52.46	52.75	59.70	54.40	56.40	52.79	52.57	51.84	51.59	51.98
Min.	51.53	51.52	51.65	51.64	52.13	52.50	52.74	52.33	51.85	51.59	51.48	51.48

WATER YEAR 1972 : Max. 59.70 m. Min. 51.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.40	8.20	5.50	10	22	152	121	49	44	11	3.80	1.80
2	3.00	23	7.60	7.60	26	154	108	43	36	11	3.60	1.80
3	2.80	19	6.40	6.10	78	188	98	39	33	10	3.40	1.80
4	2.60	15	6.40	5.20	97	157	91	37	33	9.40	3.20	1.80
5	4.00	11	23	15	72	126	242	35	30	9.10	3.00	1.80
6	4.30	9.10	23	55	57	106	244	33	28	9.70	3.20	1.80
7	8.50	7.60	21	41	45	106	165	33	27	9.10	3.00	1.80
8	15	6.40	24	33	44	123	118	46	26	8.80	3.00	1.90
9	21	5.80	26	24	203	105	91	48	24	8.50	3.00	2.20
10	17	5.20	23	15	407	90	74	50	23	8.20	3.00	1.90
11	14	4.30	33	12	316	86	62	51	22	7.60	3.00	1.90
12	15	3.40	38	10	305	95	62	51	22	7.60	3.00	1.90
13	15	3.40	28	9.10	257	102	65	53	22	7.60	3.00	2.40
14	13	3.00	26	7.90	194	83	137	48	21	7.30	3.00	7.00
15	13	2.60	27	6.70	164	67	314	43	20	7.00	2.80	16
16	12	4.90	24	5.80	182	56	301	39	20	6.40	2.60	13
17	10	11	21	5.80	153	47	271	36	20	6.10	2.60	11
18	9.10	8.50	17	5.50	184	40	411	34	19	6.10	2.60	9.40
19	8.80	9.40	15	5.20	282	43	413	31	19	6.10	2.60	7.30
20	8.20	7.60	12	6.10	223	53	303	32	19	6.10	2.60	5.80
21	8.50	9.10	11	7.30	214	48	199	33	18	6.10	2.40	7.00
22	7.30	6.70	12	7.90	229	47	148	35	17	6.10	2.20	9.40
23	5.50	4.90	9.10	9.10	177	54	122	47	15	5.80	2.20	7.90
24	5.50	4.30	8.20	38	155	74	112	52	15	5.50	2.20	6.70
25	4.90	3.80	7.30	36	129	127	98	47	15	5.50	2.00	6.10
26	4.60	3.20	6.10	24	147	140	98	48	13	4.90	1.90	6.40
27	3.80	3.00	5.50	17	601	168	91	47	12	4.60	1.90	5.50
28	4.00	2.40	7.30	13	831	190	76	49	11	4.30	1.80	5.80
29	4.30	3.80	17	11	511	170	65	57	11	4.30	–	13
30	4.00	3.20	15	11	282	142	58	52	11	4.00	–	14
31	–	5.80	–	15	196	–	54	–	11	3.80	–	11
Total	252.10	218.60	505.40	475.30	6,783	3,139	4,812	1,298	657.00	217.60	76.60	187.10
Mean	8.40	7.05	16.8	15.3	219	105	155	43.3	21.2	7.02	2.73	6.03
Max.	21	23	38	55	831	190	413	57	44	11	3.80	16
Min.	2.60	2.40	5.50	5.20	22	40	54	31	11	3.80	1.80	1.80
Runoff – mcm.	21.781	18.887	43.666	41.066	586.051	271.210	415.757	112.147	56.765	18.801	6.618	16.165

WATER YEAR 1972 : Max. 831 Min. 1.80 Mean 51.0 Annual Runoff 1,608.915 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 28, 72	13.00	59.95	865				

YOM RIVER BASIN

Mae Yom River at Talat Thani, Sukhothai (Y4)

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

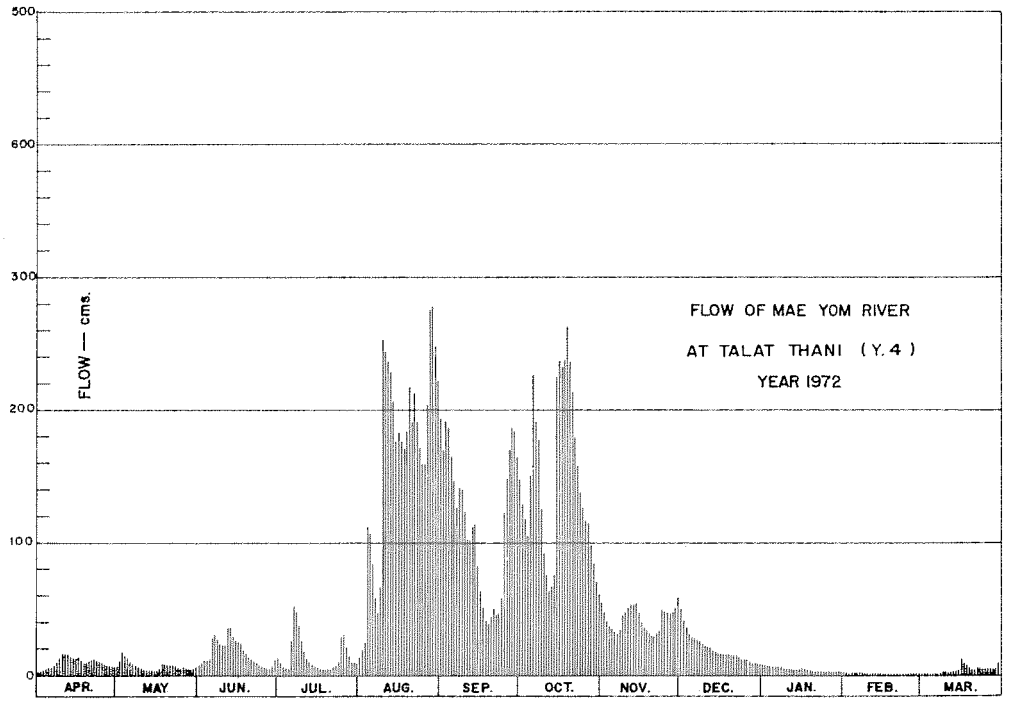
Overbank Flow Conditions: Overbank flow start at elevation + 49.00 on left bank for 1970 and is included.

General Description: Records fair. Stage-discharge relation defined by 46 discharge measurements made in 1970. Upstream State diversions for irrigation of about 24,000 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.20	45.43	45.49	45.72	45.81	48.67	48.32	47.16	47.05	45.55	45.05	44.89
2	.19	.68	.55	.54	46.12	.52	.18	.00	46.87	.53	.04	.83
3	.23	.97	.66	.42	.30	.71	.07	46.86	.70	.50	.02	.89
4	.27	.90	.66	.34	47.98	.67	47.90	.74	.58	.47	.01	.82
5	.31	.76	.77	.29	.92	.46	48.43	.66	.48	.44	.03	.89
6	45.38	45.64	46.44	46.23	47.48	48.27	48.94	46.61	46.41	45.43	45.13	44.89
7	.49	.53	.54	47.08	.20	.12	.70	.54	.37	.42	.11	.86
8	.67	.48	.39	46.98	46.90	.27	.59	.62	.32	.40	.00	45.00
9	.79	.38	.26	.67	47.39	.26	.10	.94	.24	.36	44.98	.13
10	.95	.33	.21	.31	49.06	.04	47.75	.97	.20	.35	.98	.05
11	45.99	45.29	46.21	45.98	49.02	47.85	47.47	47.04	46.14	45.33	44.97	45.07
12	.87	.21	.67	.75	48.98	.87	.30	.10	.16	.31	.97	.13
13	.85	.22	.67	.62	.94	.98	.36	.11	.06	.30	.98	.14
14	.79	.18	.48	.54	.76	.90	.51	.12	.00	.30	.96	.09
15	.74	.16	.33	.46	.58	.57	48.93	.00	45.96	.30	45.00	.26
16	45.78	45.15	46.26	45.38	48.64	47.30	48.99	46.86	45.93	45.28	44.94	45.73
17	.69	.31	.20	.34	.58	.06	.97	.72	.93	.25	.93	.58
18	.59	.56	.03	.32	.53	46.86	49.00	.64	.93	.23	.93	.51
19	.55	.56	45.89	.30	.71	.73	.10	.53	.93	.22	.90	.40
20	.70	.55	.78	.28	.89	.89	.02	.47	.91	.20	.88	.30
21	45.72	45.48	45.70	45.32	48.70	47.05	48.83	46.48	45.89	45.19	44.88	45.21
22	.71	.52	.66	.39	.86	46.93	.58	.52	.86	.18	.91	.37
23	.66	.46	.58	.41	.69	.96	.38	.64	.80	.19	.86	.36
24	.61	.36	.49	.64	.54	47.17	.25	47.03	.75	.16	.86	.34
25	.56	.33	.44	46.47	.44	48.07	.12	.00	.74	.16	.92	.34
26	45.55	45.37	45.39	46.49	48.43	48.34	48.02	46.99	45.71	45.15	44.83	45.34
27	.52	.36	.34	.16	49.02	.51	.01	.99	.66	.12	.87	.33
28	.46	.34	.33	45.88	.14	.67	47.82	.96	.61	.10	.91	.26
29	.42	.30	.42	.64	.15	.64	.60	47.07	.58	.09	-	.26
30	.45	.32	.75	.60	.06	.50	.41	.20	.56	.09	-	.62
31	-	.40	-	.55	48.88	-	.28	-	.56	.08	-	.79
Mean	45.58	45.43	45.91	45.77	48.29	47.93	48.22	46.85	45.80	45.28	44.95	45.21
Max.	45.99	45.97	46.67	47.08	49.15	48.71	49.10	47.20	47.05	45.55	45.13	45.79
Min.	45.19	45.15	45.33	45.28	45.81	46.73	47.28	46.47	45.56	45.08	44.83	44.82

WATER YEAR 1972 : Max. 49.15 m. Min. 44.82 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.50	6.45	7.35	12	14	186	146	56	50	8.50	2.00	0.45
2	3.40	11	8.50	8.30	20	168	131	48	42	8.10	1.90	0.15
3	3.80	17	11	6.30	25	191	120	42	36	7.50	1.70	0.45
4	4.20	15	11	5.10	111	186	104	37	32	7.05	1.60	0.10
5	4.65	13	13	4.40	106	162	158	35	29	6.60	1.80	0.45
6	5.70	10	28	23	74	141	226	33	28	6.45	2.80	0.45
7	7.35	8.10	31	52	58	125	190	31	27	6.30	2.60	0.30
8	11	7.20	27	47	43	141	177	34	25	6.00	1.50	1.50
9	13	5.70	24	35	69	140	123	45	23	5.40	1.30	2.80
10	16	4.95	23	25	252	117	92	47	22	5.25	1.30	2.00
11	17	4.40	23	17	243	100	74	50	21	4.95	1.20	2.20
12	15	3.60	35	12	234	102	63	53	21	4.65	1.20	2.80
13	14	3.70	35	9.90	226	111	67	53	19	4.50	1.30	2.90
14	13	3.30	29	8.30	198	104	76	54	17	4.50	1.10	2.40
15	12	3.10	26	6.90	176	80	224	48	17	4.50	1.50	4.10
16	13	3.00	24	5.70	183	63	236	42	16	4.30	0.90	12
17	11	4.65	22	5.10	176	51	232	37	16	4.00	0.80	9.10
18	9.30	8.70	18	4.80	170	42	238	34	16	3.80	0.80	7.70
19	8.50	8.70	15	4.50	191	37	262	31	16	3.70	0.50	6.00
20	11	8.50	13	4.30	216	43	243	29	16	3.50	0.40	4.50
21	12	7.20	11	4.80	190	50	207	29	15	3.40	0.40	3.60
22	12	7.90	11	5.85	212	45	176	31	15	3.30	0.60	5.55
23	11	6.90	9.10	6.15	189	46	153	34	13	3.40	0.30	5.40
24	9.70	5.40	7.35	10	171	56	138	49	12	3.10	0.30	5.10
25	8.70	4.95	6.66	29	159	121	125	48	12	3.10	0.70	5.10
26	8.50	5.55	5.85	30	158	148	115	47	12	3.00	0.15	5.10
27	7.90	5.40	5.10	21	243	167	114	47	11	2.70	0.35	4.95
28	6.90	5.10	4.95	15	274	186	98	47	9.70	2.50	0.60	4.10
29	6.30	4.50	6.30	10	277	183	82	51	9.10	2.40	–	4.10
30	6.75	4.80	12	9.50	255	166	70	58	8.70	2.40	–	9.90
31	–	6.00	–	8.50	215	–	62	–	8.70	2.30	–	13
Total	286.15	213.75	503.16	446.40	5,128	3,458	4,522	1,280	615.20	141.15	31.60	128.25
Mean	9.53	6.89	16.7	14.4	165	115	146	42.6	19.8	4.55	1.12	4.13
Max.	17	17	35	52	277	191	262	58	50	8.50	2.80	13
Min.	3.40	3.00	4.95	4.30	14	37	62	29	8.70	2.30	0.15	0.10
Runoff – mcm.	27.723	18.468	43.473	38.571	443.059	298.771	390.700	110.592	53.153	12.195	2.730	11.080

WATER YEAR 1972 : Max. 277 Min. 0.10 Mean 45.9 Annual Runoff 1,447.516 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 29, 72	01.00	49.15	277				

YOM RIVER BASIN

Mae Yom River at above Kaeng Luang, Sukhothai (Y6)

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: 12,659 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 59.00 m. (M.S.L.)

Bench Mark: B.M. - Y6

- 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: 1952-1957, 1958 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.

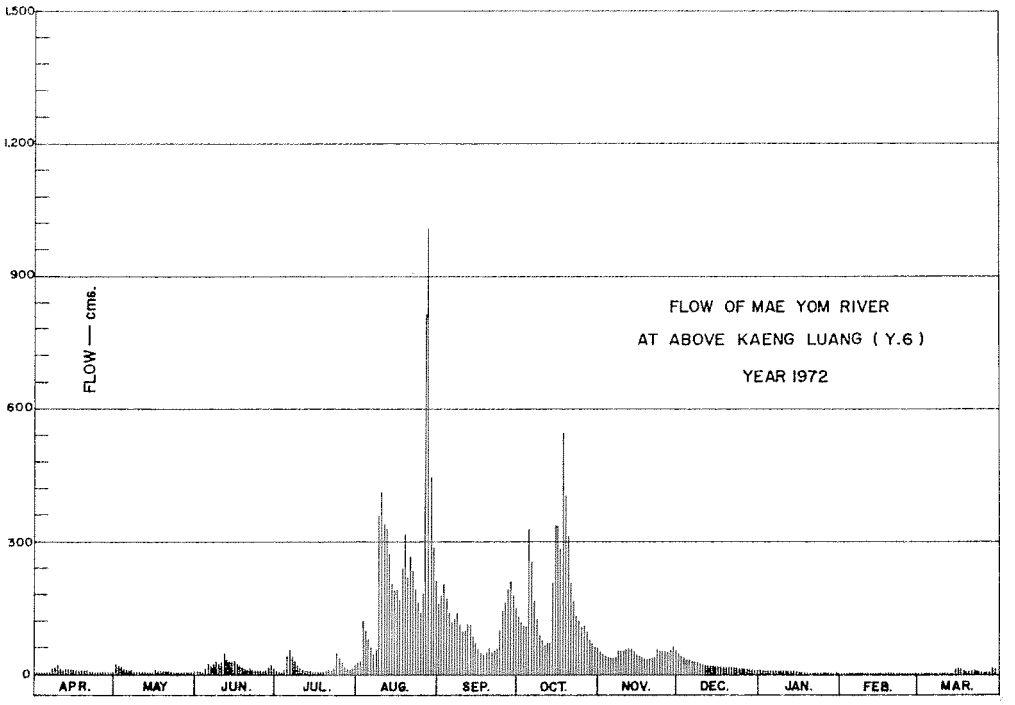
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 67 discharge measurements in 1972. Flow diverted for irrigation of about 24,000 hectares at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.73	60.24	59.88	59.95	60.39	61.74	61.53	60.74	60.67	60.02	59.74	59.64
2	.72	.24	.88	.88	.40	.90	.42	.65	.59	59.98	.73	.64
3	.72	.14	.83	.85	61.44	62.03	.33	.60	.55	.95	.72	.64
4	.74	.02	60.09	.84	.24	61.78	.33	.57	.49	.93	.71	.64
5	.81	59.97	.33	60.61	60.97	.54	62.72	.54	.46	.94	.72	.64
6	59.83	59.91	60.25	60.77	60.82	61.38	62.27	60.52	60.43	59.92	59.71	59.65
7	60.10	.87	.30	.60	.64	.45	61.80	.53	.40	.90	.71	.65
8	.13	.84	.43	.47	.78	.58	.47	.77	.37	.88	.71	.70
9	.25	.82	.30	.29	62.84	.36	.22	.75	.35	.88	.71	.65
10	.10	.79	.37	.14	63.10	.24	.04	.80	.33	.88	.71	.65
11	60.00	59.76	60.68	60.05	62.76	61.24	60.90	60.83	60.31	59.88	59.71	59.67
12	.02	.74	.51	59.96	.72	.36	.97	.84	.29	.88	.71	.67
13	.02	.73	.40	.94	.35	.36	.98	.83	.29	.88	.71	.77
14	.02	.71	.40	.90	61.97	.15	62.15	.75	.28	.87	.71	60.12
15	.02	.70	.40	.87	.90	60.96	.76	.66	.26	.86	.70	.13
16	59.99	60.04	60.33	59.85	61.96	60.81	62.75	60.60	60.27	59.84	59.70	60.06
17	.94	59.96	.25	.84	.75	.68	.47	.58	.27	.83	.69	59.98
18	.94	.94	.18	.84	62.20	.60	63.66	.52	.25	.83	.68	.94
19	.92	.92	.10	.85	.66	.72	.13	.49	.24	.83	.69	.87
20	.90	.92	.05	.88	.11	.84	62.57	.50	.22	.82	.69	.89
21	59.87	59.92	60.06	59.92	62.37	60.72	62.01	60.52	60.19	59.82	59.68	60.03
22	.84	.83	59.97	.91	.20	.75	61.72	.60	.16	.81	.66	59.92
23	.83	.79	.93	60.08	61.89	.87	.53	.83	.14	.81	.65	.91
24	.81	.77	.91	.70	.77	61.29	.44	.75	.14	.81	.65	.86
25	.79	.74	.88	.49	.55	.63	.31	.75	.12	.80	.65	.85
26	59.77	59.73	59.84	60.29	61.97	61.79	61.35	60.76	60.08	59.78	59.65	59.85
27	.76	.71	.87	.16	64.60	.99	.24	.74	.06	.77	.65	.82
28	.79	.71	60.03	.08	65.22	62.06	.07	.82	.04	.76	.64	.90
29	.77	.79	.25	.06	63.24	61.90	60.94	.88	.04	.76	-	60.18
30	.78	.80	.09	.03	62.46	.68	.86	.77	.04	.76	-	.09
31	-	.86	-	.28	.00	-	.81	-	.04	.75	-	.04
Mean	59.90	59.86	60.16	60.11	62.07	61.35	61.69	60.68	60.27	59.62	59.69	59.84
Max.	60.25	60.24	60468	60.77	65.22	62.06	63.66	60.88	60.67	60.02	59.74	60.18
Min.	59.72	59.70	59.83	59.84	60.39	60.60	60.81	60.49	60.04	59.75	59.64	59.64

WATER YEAR 1972 : Max. 65.22 m. Min. 59.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.30	19	6.40	8.50	27	160	132	51	46	11	3.40	2.40
2	3.20	19	6.40	6.40	28	183	118	44	40	9.40	3.30	2.40
3	3.20	15	4.90	5.50	121	204	108	41	37	8.50	3.20	2.40
4	3.40	11	13	5.20	97	165	108	39	33	7.90	3.10	2.40
5	4.30	9.10	24	42	70	133	328	37	32	8.20	3.20	2.40
6	4.90	7.30	19	54	58	114	245	35	30	7.60	3.10	2.50
7	13	6.10	22	41	44	122	168	36	28	7.00	3.10	2.50
8	14	5.20	30	32	54	138	124	54	26	6.40	3.10	3.00
9	19	4.60	22	21	352	111	95	52	25	6.40	3.10	2.50
10	13	3.90	26	15	410	97	77	56	24	6.40	3.10	2.50
11	10	3.60	47	11	336	97	64	58	23	6.40	3.10	2.70
12	11	3.40	35	8.80	328	111	70	59	21	6.40	3.10	2.70
13	11	3.30	28	8.20	259	111	71	58	21	6.40	3.10	3.70
14	11	3.10	28	7.00	194	88	223	52	21	6.10	3.10	14
15	11	3.00	29	6.10	183	69	336	45	20	5.80	3.00	14
16	9.70	11	24	5.50	193	57	334	41	20	5.20	3.00	12
17	8.20	8.80	19	5.20	161	47	281	40	20	4.90	2.90	9.40
18	8.20	8.20	16	5.20	232	41	545	35	19	4.90	2.80	8.20
19	7.60	7.60	13	5.50	316	50	417	33	19	4.90	2.90	6.10
20	7.00	7.60	11	6.40	217	59	299	34	18	4.60	2.90	6.70
21	6.10	7.60	12	7.60	263	50	201	35	17	4.60	2.80	11
22	5.20	4.90	9.10	7.30	232	52	157	41	15	4.30	2.60	7.60
23	4.90	3.90	7.90	12	181	62	132	58	15	4.30	2.50	7.30
24	4.30	3.70	7.30	48	164	103	121	52	15	4.30	2.50	5.80
25	3.90	3.40	6.40	33	134	144	105	52	14	4.00	2.50	5.50
26	3.70	3.30	5.20	21	194	167	110	53	12	3.80	2.50	5.50
27	3.60	3.10	6.10	15	810	197	97	51	12	3.70	2.50	4.60
28	3.90	3.10	11	12	1,007	209	80	58	11	3.60	2.40	7.00
29	3.70	3.90	19	12	442	183	68	62	11	3.60	–	16
30	3.80	4.00	13	11	279	151	61	54	11	3.60	–	13
31	–	5.80	–	21	199	–	57	–	11	3.50	–	11
Total	219.10	206.50	520.70	499.40	7,585	3,475	5,332	1,416	667	177.70	81.90	198.80
Mean	7.30	6.66	17.3	16.1	245	116	172	47.2	21.5	5.73	2.92	6.41
Max.	19	19	47	54	1,007	209	545	62	46	11	3.40	16
Min.	3.20	3.00	4.90	5.20	27	41	57	33	11	3.50	2.40	2.40
Runoff - ลบ.ม.	18.930	17.842	44.988	43.148	655.344	300.240	460.685	122.342	57.629	15.353	7.076	17.176

WATER YEAR 1972 : Max. 1,007 Min. 2.40 Mean 55.8 Annual Runoff 1,760.754 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 28, 72	11.00	65.42	1,075				

YOM RIVER BASIN

Mae Hgao River at Ngao Bridge, Lampang (Y13)

Location: Lat. 18°-45'-06" N., Long. 99°-58'-53" E., on left bank at downstream side of Ngao Bridge, Amphoe Ngao, Lampang.

Drainage Area: 382 Sq.km.

Type of Gage: Water-stage recorder.

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 on April 1 - December 18. Recording on December 19 - March 31, 1973.

Basis of Mean Daily Gage Height: Arithmetic mean of 5.24 hourly readings.

Period of Available Gage Records: 1957 to date.

Rating Operation:

Period of Rating: 1957-1958, 1969 to date.
Rated by Float: -
Rated by Current Meter: 1957-1958, 1969 to date.

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

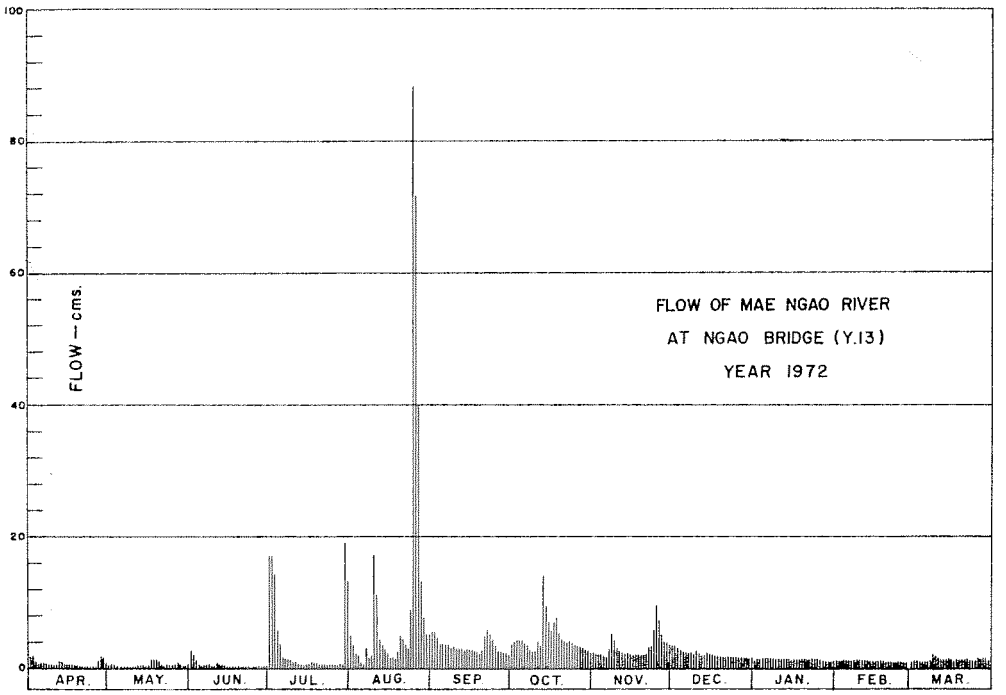
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 29 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	266.87	266.76	266.91	267.33	267.02	267.04	266.98	266.90	266.95	266.84	266.81	266.80
2	.86	.76	.86	.32	266.95	.04	.98	.90	.95	.84	.81	.80
3	.81	.74	.81	.27	.88	266.99	267.00	.89	.93	.84	.82	.80
4	.75	.74	.76	.07	.86	.96	266.99	.88	.92	.84	.83	.81
5	.78	.73	.74	266.99	.78	.96	.98	.87	.91	.84	.82	.81
6	266.76	266.72	266.74	266.87	266.77	266.96	266.96	266.87	266.90	266.84	266.82	266.80
7	.76	.72	.74	.84	.94	.96	.95	.95	.90	.84	.82	.81
8	.75	.70	.76	.84	.87	.94	.92	267.03	.90	.84	.82	.84
9	.75	.70	.74	.82	.89	.94	.91	266.99	.89	.84	.82	.88
10	.76	.70	.73	.81	267.32	.94	.93	.91	.91	.84	.82	.85
11	266.76	266.74	266.78	266.80	267.14	266.94	266.99	266.91	266.89	266.84	266.82	266.83
12	.80	.74	.76	.78	266.99	.94	.96	.90	.87	.84	.82	.83
13	.78	.75	.75	.76	.96	.92	267.27	.90	.89	.84	.81	.82
14	.76	.75	.73	.76	.94	.92	.14	.89	.90	.83	.81	.82
15	.75	.76	.73	.76	.91	.92	.08	.88	.89	.83	.81	.83
16	266.75	266.76	266.72	226.78	266.86	266.92	267.04	266.88	266.88	266.83	266.80	266.82
17	.74	.84	.72	.78	.86	.91	.09	.88	.87	.83	.81	.81
18	.74	.82	.72	.78	.86	.90	.11	.88	.87	.83	.81	.82
19	.72	.82	.72	.78	.94	.90	.03	.88	.87	.83	.80	.82
20	.72	.81	.73	.76	267.02	.95	.00	.88	.86	.83	.79	.82
21	266.72	266.76	266.74	266.76	266.99	267.05	266.98	266.90	266.86	266.83	266.79	266.82
22	.72	.76	.73	.76	.95	.05	.98	.95	.86	.83	.79	.84
23	.72	.76	.73	.76	.94	.02	.99	.96	.86	.83	.78	.82
24	.72	.76	.72	.76	267.16	266.99	.97	267.08	.86	.83	.80	.82
25	.72	.76	.72	.76	268.14	.94	.95	.16	.86	.83	.79	.81
26	266.70	266.78	266.72	266.75	267.94	266.90	266.94	267.06	266.85	266.82	266.79	266.83
27	.84	.78	.72	.75	.43	.90	.94	.02	.85	.81	.79	.84
28	.86	.76	.72	.78	.12	.90	.93	266.98	.85	.81	.80	.84
29	.84	.76	.72	.81	.10	.90	.92	.97	.84	.81	-	.83
30	.76	.76	.72	267.37	.03	.90	.91	.96	.84	.81	-	.82
31	-	.76	-	.21	.03	-	.90	-	.84	.81	-	.82
Mean	266.76	266.76	266.75	266.88	267.05	266.95	266.99	266.94	266.88	266.83	266.81	266.82
Max.	266.87	266.84	266.91	267.37	268.14	267.05	267.27	267.16	266.95	266.84	266.83	266.88
Min.	266.70	266.70	266.72	266.75	266.77	266.90	266.90	266.87	266.84	266.81	266.79	266.80

WATER YEAR 1972 : Max. 268.14 m. Min. 266.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.98	0.68	2.60	17	5.00	5.60	4.00	2.40	3.40	1.15	1.14	1.00
2	1.84	0.68	1.84	17	3.40	5.60	4.00	2.40	3.40	1.56	1.14	1.00
3	1.14	0.52	1.14	14	2.12	4.20	4.40	2.26	3.00	1.56	1.28	1.00
4	0.60	0.52	0.68	6.50	1.84	3.60	4.20	2.12	2.80	1.56	1.42	1.14
5	0.84	0.44	0.52	4.20	0.84	3.60	4.00	1.98	2.60	1.56	1.28	1.14
6	0.68	0.36	0.52	1.98	0.76	3.60	3.60	1.98	2.40	1.56	1.28	1.00
7	0.68	0.36	0.52	1.56	3.20	3.60	3.40	3.40	2.40	1.56	1.28	1.14
8	0.60	0.20	0.68	1.56	1.98	3.20	2.80	5.30	2.40	1.56	1.28	1.56
9	0.60	0.20	0.52	1.28	2.26	3.20	2.60	4.20	2.26	1.56	1.28	2.12
10	0.68	0.20	0.44	1.14	17	3.20	3.00	2.60	2.60	1.56	1.28	1.70
11	0.68	0.52	0.84	1.00	8.92	3.20	4.20	2.60	2.26	1.56	1.28	1.42
12	1.00	0.52	0.66	0.84	4.20	3.20	3.60	2.40	1.98	1.56	1.28	1.42
13	0.84	0.60	0.60	0.68	3.60	2.80	14	2.40	2.26	1.56	1.14	1.28
14	0.68	0.60	0.44	0.68	3.20	2.80	8.92	2.26	2.40	1.42	1.14	1.28
15	0.60	0.68	0.44	0.68	2.60	2.80	6.80	2.12	2.26	1.42	1.14	1.42
16	0.60	0.68	0.36	0.84	1.84	2.80	5.60	2.12	2.12	1.42	1.00	1.28
17	0.52	1.56	0.36	0.84	1.84	2.60	7.10	2.12	1.98	1.42	1.14	1.14
18	0.52	1.28	0.36	0.84	1.84	2.40	7.78	2.12	1.98	1.42	1.14	1.28
19	0.36	1.28	0.36	0.84	3.20	2.40	5.30	2.12	1.98	1.42	1.00	1.28
20	0.36	1.14	0.44	0.68	5.00	3.40	4.40	2.12	1.84	1.42	0.92	1.28
21	0.36	0.68	0.52	0.68	4.20	5.90	4.00	2.40	1.84	1.42	0.92	1.28
22	0.36	0.68	0.44	0.68	3.40	5.90	4.00	3.40	1.84	1.42	0.92	1.56
23	0.36	0.68	0.44	0.68	3.20	5.00	4.20	3.60	1.84	1.42	0.84	1.28
24	0.36	0.68	0.36	0.68	9.68	4.20	3.80	6.80	1.84	1.42	1.00	1.28
25	0.36	0.68	0.36	0.68	88	3.20	3.40	9.68	1.84	1.42	0.92	1.14
26	0.20	0.84	0.36	0.60	65	2.40	3.20	6.20	1.70	1.28	0.92	1.42
27	1.56	0.84	0.36	0.60	23	2.40	3.20	5.00	1.70	1.14	0.92	1.56
28	1.84	0.68	0.36	0.84	8.16	2.40	3.00	4.00	1.70	1.14	1.00	1.56
29	1.56	0.68	0.36	1.14	7.40	2.40	2.80	3.80	1.56	1.14	–	1.42
30	0.68	0.68	0.36	19	5.30	2.40	2.60	3.60	1.56	1.14	–	1.28
31	–	0.68	–	12	5.30	–	2.40	–	1.56	1.14	–	1.28
Total	23.44	20.82	18.26	111.72	297.28	104.00	140.30	99.50	67.30	44.30	31.28	40.94
Mean	0.78	0.67	0.61	3.60	9.59	3.47	4.52	3.32	2.17	1.43	1.12	1.32
Max.	1.98	1.56	2.60	19	88	5.90	14	9.68	3.40	1.56	1.42	2.12
Min.	0.20	0.20	0.36	0.60	0.76	2.40	2.40	1.98	1.56	1.14	0.92	1.00
Runoff – mcm.	2.025	1.799	1.578	9.653	25.685	8.986	12.122	8.597	5.815	3.827	2.702	3.537

WATER YEAR 1972 : Max. 88 Min. 2.74 Mean 0.20 Annual Runoff 86.326 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 25	18.00	268.46	130				

YOM RIVER BASIN

Mae Yom River at Don Rabiang, Sukhothai (Y14)

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.

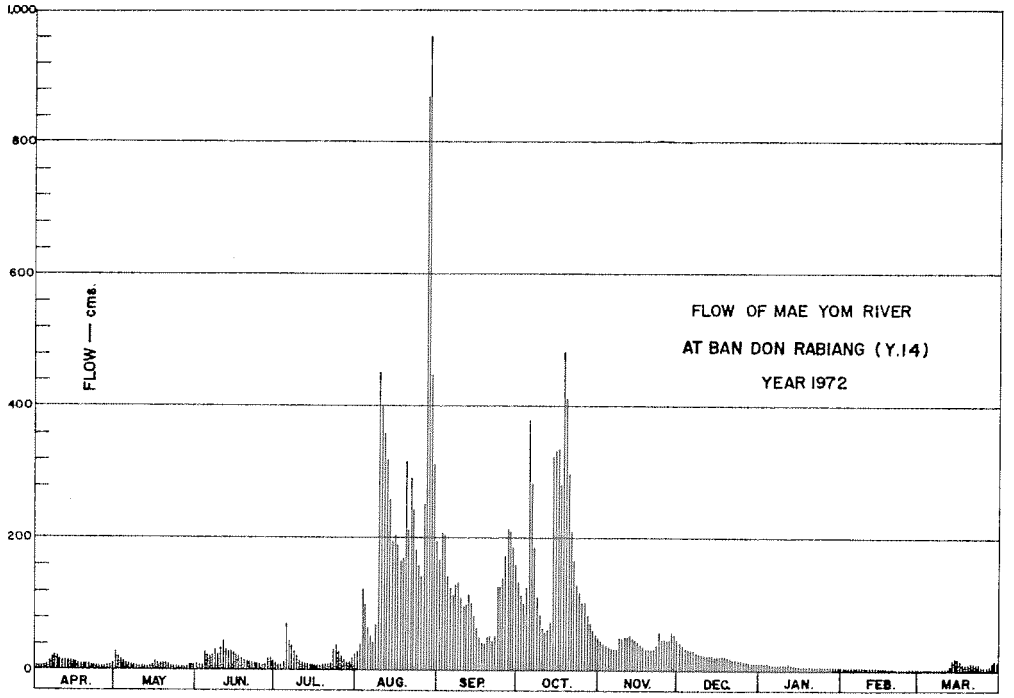
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 64 discharge measurements made in 1972. Flow diverted for irrigation of about 24,000 hectares at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	65.85	66.36	66.02	66.02	66.39	67.86	67.56	66.63	66.57	66.04	65.84	65.75
2	.85	.25	65.96	65.96	.62	68.26	.41	.57	.50	.02	.83	.75
3	.84	.17	.93	.94	67.52	.23	.27	.53	.46	.01	.83	.75
4	.85	.09	66.37	66.03	.16	67.71	.53	.49	.42	.00	.82	.75
5	.95	.02	.29	.97	66.85	.57	69.09	.46	.40	.01	.83	.75
6	66.03	65.99	66.24	66.67	66.77	67.41	68.41	66.45	66.37	65.99	65.83	65.75
7	.20	.95	.29	.52	.56	.59	67.82	.46	.34	.97	.82	.75
8	.28	.93	.44	.40	.96	.62	.40	.71	.31	.96	.82	.74
9	.23	.91	.30	.32	69.83	.34	.11	.68	.30	.95	.81	.74
10	.13	.89	.40	.14	.51	.23	66.90	.72	.29	.95	.82	.76
11	66.13	65.87	66.64	66.07	69.20	67.28	66.80	66.73	66.28	65.95	65.82	65.77
12	.12	.86	.42	.03	.14	.44	.90	.75	.26	.94	.82	.83
13	.10	.84	.37	.02	68.60	.31	.96	.72	.25	.94	.81	66.16
14	.10	.82	.38	65.98	.15	.07	69.05	.63	.24	.93	.80	.26
15	.08	.91	.37	.96	.23	66.86	.11	.57	.23	.93	.80	.13
16	66.05	66.10	66.29	65.94	68.13	66.71	69.12	66.51	66.24	65.92	65.79	66.07
17	.03	.00	.22	.95	67.90	.60	68.76	.50	.25	.92	.79	.02
18	.01	.03	.17	.94	68.70	.56	70.41	.43	.24	.91	.80	65.97
19	.00	.01	.12	.98	69.02	.72	69.54	.44	.22	.90	.79	.94
20	65.98	.03	.10	66.00	68.28	.76	68.76	.44	.20	.91	.78	66.07
21	65.96	65.97	66.08	66.03	68.84	66.65	68.12	66.47	66.17	65.92	65.77	66.03
22	.93	.91	.04	.03	.38	.74	67.73	.60	.14	.90	.76	65.99
23	.91	.91	.02	.46	.03	67.55	.56	.80	.14	.89	.76	.96
24	.90	.87	.00	.61	67.86	.55	.42	.64	.14	.89	.76	.92
25	.89	.85	65.98	.39	.64	.72	.31	.67	.12	.88	.75	.93
26	65.88	65.85	65.96	66.24	68.60	67.99	67.30	66.66	66.10	65.87	65.75	65.91
27	.88	.82	.96	.15	71.78	68.29	.14	.65	.09	.86	.75	.91
28	.90	.88	66.20	.11	72.09	.26	66.97	.80	.07	.86	.75	66.11
29	.88	.93	.20	.10	69.58	.00	.85	.77	.06	.85		.17
30	66.00	.97	.09	.15	68.69	67.74	.78	.66	.06	.85		.07
31		.94		.33	.18		.71		.05	.85		.04
Mean	65.99	65.96	66.19	66.17	68.36	67.47	67.70	66.60	66.24	65.93	65.80	65.80
Max.	66.28	66.36	66.64	66.97	72.09	68.29	70.41	66.80	66.57	66.04	65.84	66.26
Min.	65.84	65.82	65.93	65.94	66.39	66.56	66.71	66.44	66.05	65.85	65.75	65.74

WATER YEAR 1972 : Max. 72.09 m. Min. 65.74 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.50	28	11	11	29	160	128	44	40	12	5.20	3.00
2	5.50	21	8.80	8.80	43	210	113	40	36	11	4.90	3.00
3	5.20	17	7.90	8.20	124	206	99	38	34	10	4.90	3.00
4	5.50	14	28	11	88	143	125	35	31	10	4.60	3.00
5	8.20	11	23	71	61	129	380	34	30	10	4.90	3.00
6	11	9.70	21	47	50	113	231	33	28	9.70	4.90	3.00
7	19	8.50	23	37	40	131	155	34	26	9.10	4.60	3.00
8	23	7.90	32	30	70	134	112	50	25	8.80	4.60	2.80
9	20	7.30	24	25	451	106	83	48	24	8.50	4.30	2.80
10	15	6.70	30	16	398	95	65	51	23	8.50	4.60	3.20
11	15	6.10	45	13	348	100	57	51	23	8.50	4.60	3.40
12	15	5.80	31	11	338	116	65	53	22	8.20	4.60	4.90
13	14	5.20	28	11	258	103	70	51	21	8.20	4.30	17
14	14	4.60	29	9.40	194	79	324	44	21	7.90	4.00	22
15	13	7.30	28	8.80	206	62	334	40	20	7.90	4.00	15
16	12	14	23	8.20	193	49	335	37	21	7.60	3.80	13
17	11	10	20	8.50	164	42	280	36	21	7.60	3.80	11
18	10	11	17	8.20	272	40	482	32	21	7.30	4.00	9.10
19	10	10	15	9.40	319	51	402	32	20	7.00	3.80	8.20
20	9.40	11	14	10	213	53	280	32	19	7.30	3.60	13
21	8.80	9.10	13	11	292	45	192	34	17	7.60	3.40	11
22	7.90	7.30	12	11	227	52	149	42	16	7.00	3.20	9.70
23	7.30	7.00	11	34	180	127	128	57	16	6.70	3.20	8.80
24	7.00	6.10	10	43	160	127	114	45	16	6.70	3.20	7.60
25	6.70	5.50	9.40	29	136	144	103	47	15	6.40	3.00	7.90
26	6.40	5.50	8.80	21	258	174	102	46	14	6.10	3.00	7.30
27	6.40	4.60	8.80	16	869	215	86	45	14	5.80	3.00	7.30
28	7.00	6.40	19	14	962	210	71	57	13	5.80	3.00	14
29	6.40	7.90	19	14	409	176	61	55	12	5.50		17
30	10	9.10	14	16	271	146	55	46	12	5.50		14
31		8.20		26	198		50		12	5.50		12
Total	315.50	292.80	583.70	597.50	7,821.00	3,538	5,231.00	1,269.00	663.00	243.70	113.00	357.00
Mean	10.5	9.44	19.4	19.3	252	118	168	42.3	21.4	7.86	4.03	11.5
Max.	23	28	45	71	962	215	482	57	40	12	5.20	22
Min.	5.20	4.60	7.90	8.20	29	40	50	32	12	5.50	3.00	2.80
Runoff - MCM.	27.259	25.298	50.432	51.624	675.734	305.683	451.958	109.642	57.283	21.056	9.763	30.845

WATER YEAR 1972 : Max. 962 Min. 2.80 Mean 57.6 Annual Runoff 1,816.577 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.28	06.00	72.54	1,124				

YOM RIVER BASIN

Mae Yom River at Amphoe Sam Ngam, Phichit (Y17)

Location: Lat. 16°-30'-50" N., Long. 100°-12'-40" E., on left bank infront 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. Y17

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

Gage Reading Frequency: 5-7 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 5-7 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.

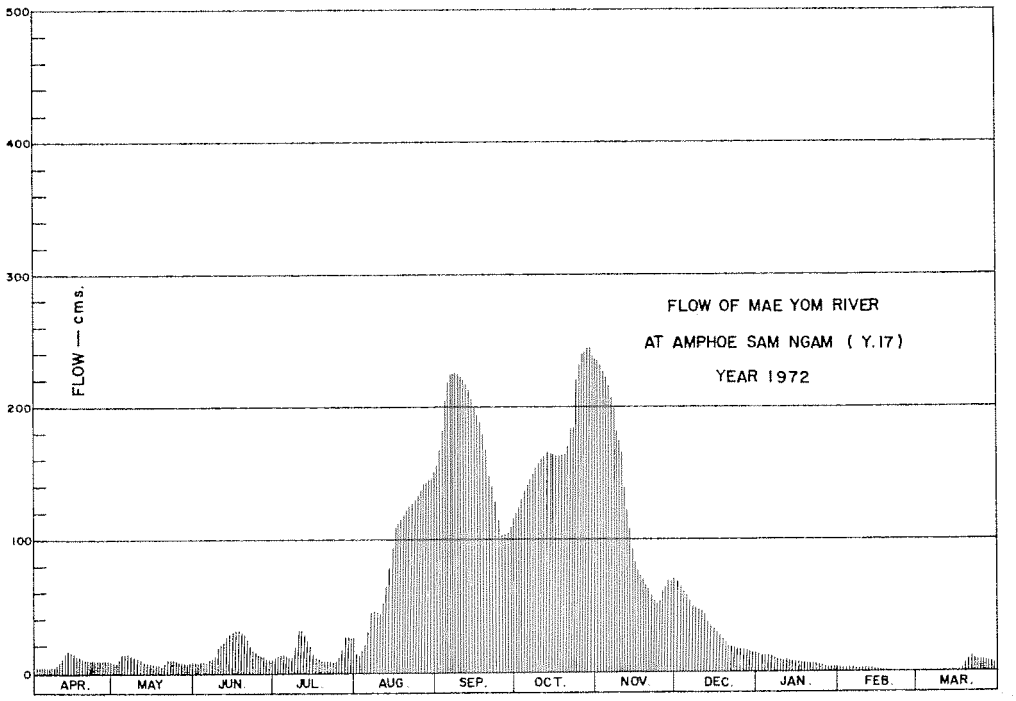
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 87 discharge measurements made in 1967. Upstream State diversions for irrigation of about 24,000 hectares.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.59	0.65	0.67	0.78	0.90	3.42	2.89	4.40	2.08	0.94	0.55	0.29
2	.59	.65	.68	.84	.88	.56	.98	.35	.04	.91	.54	.29
3	.58	.77	.69	.88	.94	.74	3.03	.30	1.99	.90	.54	.28
4	.58	.88	.69	.89	1.04	4.03	.11	.27	.94	.89	.54	.28
5	.57	.88	.70	.89	.13	.18	.18	.19	.88	.88	.54	.27
6	0.56	0.93	0.72	0.86	1.38	4.26	3.23	4.11	1.79	0.87	0.54	0.28
7	.56	.90	.77	.82	.63	.28	.29	.00	.74	.84	.53	.30
8	.57	.85	.81	.81	.64	.29	.34	3.74	.71	.82	.53	.31
9	.59	.83	.95	1.12	.61	.28	.39	.62	.67	.80	.52	.33
10	.65	.81	1.03	.34	.59	.25	.44	.52	.66	.72	.51	.34
11	0.77	0.78	1.09	1.34	1.69	4.22	3.49	3.17	1.65	0.78	0.49	0.39
12	.92	.75	.14	.28	.90	.19	.51	2.98	.62	.77	.47	.43
13	.98	.71	.21	.26	2.12	.14	.54	.78	.46	.76	.46	.45
14	.98	.70	.28	.14	.26	.08	.54	.54	.43	.75	.46	.45
15	.95	.69	.31	0.99	.45	3.99	.52	.39	.38	.74	.45	.45
16	0.91	0.66	1.33	0.90	2.71	3.95	3.51	2.25	1.32	0.74	0.45	0.45
17	.86	.64	.34	.85	.78	.86	.51	.15	.28	.73	.44	.46
18	.82	.63	.33	.80	.82	.79	.51	.10	.26	.73	.44	.49
19	.79	.60	.30	.77	.87	.68	.50	.03	.17	.72	.44	.60
20	.79	.60	.24	.75	.94	.54	.51	.00	.09	.71	.44	.75
21	0.78	0.72	1.16	0.73	2.98	3.32	3.62	1.94	1.06	0.70	0.45	0.81
22	.77	.78	.02	.72	3.00	.20	.76	.86	.04	.69	.45	.81
23	.76	.78	0.97	.72	.02	.05	.79	.79	.03	.68	.44	.80
24	.76	.76	.94	.73	.06	2.98	4.20	.75	.02	.67	.41	.79
25	.76	.74	.91	.73	.11	.74	.31	.88	.01	.65	.39	.78
26	0.75	0.73	0.87	0.88	3.19	2.67	4.40	1.92	1.01	0.63	0.35	0.75
27	.74	.72	.84	1.02	.23	.67	.47	2.01	.00	.61	.32	.75
28	.77	.68	.80	.21	.24	.70	.50	.05	0.99	.60	.30	.74
29	.74	.66	.77	.24	.27	.73	.51	.08	.98	.59		.73
30	.69	.66	.75	.22	.28	.81	.46	.10	.97	.58		.69
31		.67		.24	.34		.40		.95	.57		.64
Mean	0.74	0.73	0.98	0.96	2.32	3.62	3.66	2.81	1.39	0.74	0.46	0.52
Max.	0.98	0.93	1.34	1.34	3.34	4.29	4.51	4.40	2.08	0.94	0.55	0.81
Min.	0.56	0.60	0.67	0.72	0.88	2.67	2.89	1.75	0.95	0.57	0.30	0.27

WATER YEAR 1972 : Max 4.51 m. Min. 0.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.70	6.20	6.72	9.90	13	157	119	236	69	15	3.90	0.00
2	4.70	6.20	6.98	12	13	167	125	231	67	14	3.70	0.00
3	4.50	9.60	7.24	13	15	181	129	227	64	13	3.70	0.00
4	4.50	13	7.24	13	19	204	134	224	62	13	3.70	0.00
5	4.30	13	7.50	13	23	216	139	217	59	13	3.70	0.00
6	4.10	15	8.10	12	34	223	143	210	54	13	3.70	0.00
7	4.10	13	9.60	11	46	225	147	201	51	12	3.50	0.00
8	4.30	12	11	11	46	226	151	181	50	11	3.50	0.12
9	4.70	11	15	22	45	225	155	172	48	10	3.30	0.36
10	6.20	11	18	32	44	222	158	164	47	8.10	3.10	0.48
11	9.60	9.90	21	32	49	220	162	138	47	9.90	2.73	1.08
12	14	9.00	23	29	60	217	163	125	40	9.60	2.39	1.71
13	17	7.80	26	28	72	213	166	112	37	9.30	2.22	2.05
14	17	7.50	29	23	79	208	166	96	36	9.00	2.22	2.05
15	15	7.24	30	17	91	200	164	87	34	8.70	2.05	2.05
16	14	6.46	31	13	107	197	163	79	31	8.70	2.05	2.05
17	12	5.94	32	12	112	190	163	73	29	8.40	1.88	2.22
18	11	5.68	31	10	114	185	163	71	28	8.30	1.88	2.73
19	10	4.90	30	9.60	118	176	163	67	24	8.10	1.88	4.90
20	10	4.90	27	9.00	122	166	163	65	21	7.80	1.88	9.00
21	9.90	8.10	24	8.40	125	149	172	62	20	7.50	2.05	11
22	9.60	9.90	18	8.10	126	141	182	58	19	7.24	2.05	11
23	9.30	9.90	16	8.10	128	130	185	54	19	6.98	1.88	10
24	9.30	9.30	15	8.40	131	125	218	52	18	6.72	1.37	10
25	9.30	8.70	14	8.40	134	109	228	59	18	6.20	1.08	9.90
26	9.00	8.40	13	13	140	104	236	61	18	5.68	0.60	9.00
27	8.70	8.10	12	18	143	104	242	66	17	5.16	0.24	9.00
28	9.60	6.98	10	26	144	106	244	68	17	4.90	0.00	8.70
29	8.70	6.46	9.60	27	146	108	245	69	17	4.70		8.40
30	7.24	6.46	9.00	16	146	114	241	71	16	4.50		7.24
31		6.72		27	151		236		15	4.30		5.94
Total	266.34	268.34	518.98	509.90	2,736	5,208	5,465	3,596	1,092	273.78	66.25	130.98
Mean	8.88	8.66	17.3	16.4	88.2	174	176	120	35.2	8.83	2.37	4.22
Max.	17	15	32	32	151	226	245	236	69	15	3.90	11
Min.	4.10	4.90	6.72	8.10	13	104	119	52	15	4.30	0.00	0.00
Runoff - mcm.	23.012	23.184	44.840	44.055	236.390	449.971	472.176	310.694	94.349	23.654	5.724	11.317

WATER YEAR 1972 : Max. 245 Min. 0.00 Mean 55.1 Annual Runoff 1,739.368 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.29	18.00	4.51	245				

YOM RIVER BASIN

Nam Ngim at Ban Hae, Chiang Rai (Y19)

Location: Lat. 19°-18'-10" N., Long. 100°-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.

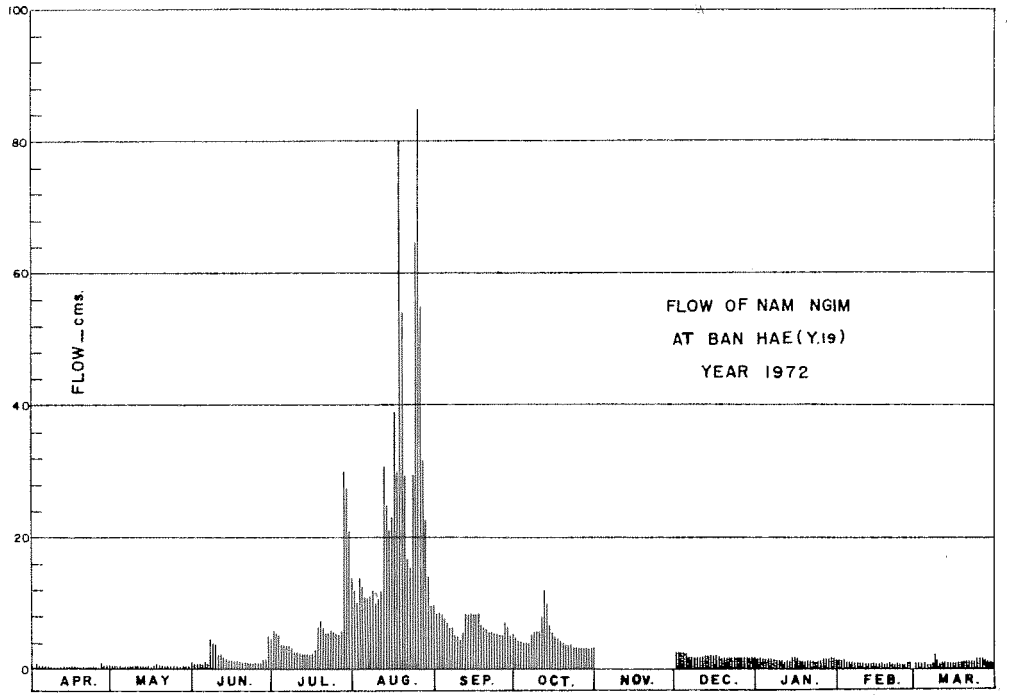
General Description: Records fair. Stage-discharge relation defined by 172 discharge measurements made in 1971.

Remarks: No gage height and discharge on period November 1 - 30, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	346.77	346.78	346.86	347.19	347.38	347.28	347.15		347.02	346.94	346.91	346.86
2	.85	.77	.85	.18	.33	.29	.13		.02	.94	.91	.86
3	.79	.76	.82	.16	.45	.28	.12		.02	.94	.92	.84
4	.76	.75	.83	.10	.43	.26	.11		.02	.94	.88	.84
5	.76	.75	.90	347.09	.36	.24	.11		.01	.94	.86	.81
6	346.76	346.77	346.86	347.09	347.37	347.21	347.11		346.96	346.94	346.85	346.80
7	.75	.77	347.14	.09	.38	.18	.16		.96	.93	.86	.82
8	.76	.77	.11	.07	.38	.17	.19		.96	.92	.87	.99
9	.77	.76	.10	.02	.33	.15	.19		.96	.92	.85	.90
10	.75	.77	346.99	.03	.35	.13	.19		.96	.91	.85	.84
11	346.75	346.79	347.00	347.02	347.40	347.21	347.27		346.97	346.90	346.84	346.84
12	.77	.78	346.95	.02	.29	.29	.38		.98	.89	.84	.84
13	.81	.78	.92	.01	.69	.28	.33		.98	.90	.83	.84
14	.77	.78	.91	.01	.60	.29	.23		.98	.95	.83	.83
15	.75	.77	.91	.00	.69	.28	.19		.98	.96	.83	.84
16	346.74	346.76	346.89	347.03	347.90	347.28	347.16		346.98	346.95	346.83	346.85
17	.74	.82	.89	.07	.76	.29	.14		.98	.92	.82	.87
18	.74	.82	.89	.22	348.31	.23	.12		.95	.89	.81	.87
19	.73	.80	.88	.25	347.96	.21	.11		.96	.89	.82	.87
20	.73	.79	.88	.21	.66	.20	.09		.95	.91	.83	.88
21	346.72	346.79	346.88	347.17	347.51	347.19	347.10		346.96	346.92	346.81	346.88
22	.73	.78	.87	.18	.46	.18	.10		.95	.90	.81	.87
23	.74	.77	.87	.20	.67	.17	.06		.95	.88	.82	.88
24	.74	.79	.87	.19	348.23	.17	.07		.95	.90	.82	.95
25	.74	.78	.87	.18	.35	.17	.06		.95	.92	.81	.92
26	346.72	346.77	346.88	347.17	347.97	347.16	347.06		346.95	346.93	346.81	346.95
27	.87	.77	.93	.17	.74	.24	.06		.95	.94	.85	.89
28	.81	.78	.91	.27	.63	.21	.07		.95	.94	.85	.88
29	.79	.78	347.16	.71	.46	.16	346.99		.95	.94		.87
30	.78	.78	.13	.54	.32	.17	347.00		.95	.93		.86
31		.91		.41	.33		.00		.94	.91		.85
Mean	346.76	346.78	346.93	347.18	347.62	347.21	347.13		346.97	346.92	346.84	346.87
Max.	346.87	346.91	347.16	347.77	348.35	347.29	347.38		347.02	346.96	346.92	346.99
Min.	346.72	346.75	346.82	347.00	347.32	347.13	347.00		346.94	346.88	346.81	346.80

WATER YEAR 1972 : Max. 348.35 m. Min. 346.72 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.58	0.62	1.06	5.88	12	8.42	5.00		2.62	1.70	1.40	1.06
2	1.00	0.58	1.00	5.66	10	8.71	4.56		2.62	1.70	1.40	1.06
3	0.66	0.54	0.82	5.22	14	8.42	4.34		2.62	1.70	1.50	0.94
4	0.54	0.50	0.88	3.90	13	7.84	4.12		2.62	1.70	1.18	0.94
5	0.54	0.50	1.30	3.74	11	7.26	4.12		2.46	1.70	1.06	0.76
6	0.54	0.58	1.06	3.74	11	6.39	4.12		1.90	1.70	1.06	0.70
7	0.50	0.58	4.78	3.74	12	5.66	5.22		1.90	1.60	1.06	0.82
8	0.54	0.58	4.12	3.42	12	5.44	5.88		1.90	1.50	1.12	2.20
9	0.58	0.54	3.90	2.62	10	5.00	5.88		1.90	1.50	1.00	1.30
10	0.50	0.58	2.20	2.78	11	4.56	5.88		1.90	1.40	1.00	0.94
11	0.50	0.66	2.30	2.62	12	6.39	8.13		2.00	1.30	0.94	0.94
12	0.58	0.62	1.80	2.62	31	8.71	12		2.10	1.24	0.94	0.94
13	0.76	0.62	1.50	2.46	25	8.42	10		2.10	1.30	0.88	0.94
14	0.58	0.62	1.40	2.46	21	8.71	6.97		2.10	1.80	0.88	0.88
15	0.50	0.58	1.40	2.30	25	8.42	5.88		2.10	1.90	0.88	0.94
16	0.46	0.54	1.24	2.78	39	8.42	5.22		2.10	1.80	0.88	1.00
17	0.46	0.82	1.24	3.42	30	8.71	4.78		2.10	1.50	0.82	1.12
18	0.46	0.82	1.24	6.68	80	6.97	4.34		1.80	1.24	0.76	1.12
19	0.42	0.70	1.18	7.55	44	6.39	4.12		1.90	1.24	0.82	1.12
20	0.42	0.66	1.18	6.39	24	6.10	3.74		1.80	1.40	0.88	1.18
21	0.38	0.66	1.18	5.44	17	5.88	3.90		1.90	1.50	0.76	1.18
22	0.42	0.62	1.12	5.66	15	5.66	3.90		1.80	1.30	0.76	1.12
23	0.46	0.58	1.12	6.10	24	5.44	3.26		1.80	1.18	0.82	1.18
24	0.46	0.66	1.12	5.88	71	5.44	3.42		1.80	1.30	0.82	1.80
25	0.46	0.62	1.12	5.66	85	5.44	3.26		1.80	1.50	0.76	1.50
26	0.38	0.58	1.18	5.44	45	5.22	3.26		1.80	1.60	0.76	1.80
27	1.12	0.58	1.60	5.44	28	7.26	3.26		1.80	1.70	1.00	1.24
28	0.76	0.62	1.40	30	22	6.39	3.42		1.80	1.70	1.00	1.18
29	0.66	0.62	5.22	27	14	5.22	2.20		1.80	1.70		1.12
30	0.62	0.62	4.56	18	9.68	5.44	2.30		1.80	1.60		1.06
31		1.40		13	10		2.30		1.70	1.40		1.00
Total	15.84	19.80	55.22	209.60	787.68	202.33	148.74		62.34	47.50	27.14	35.08
Mean	0.53	0.64	1.84	6.76	25.4	6.74	4.80		2.01	1.53	0.97	1.13
Max.	1.12	1.40	5.22	30	85	8.71	12		2.62	1.90	1.50	2.20
Min.	0.38	0.50	0.82	2.30	9.68	4.56	2.30		1.70	1.18	0.76	0.70
Runoff - DCM.	1.368	1.710	4.771	18.109	68.055	17.481	12.851		5.386	4.104	2.345	3.031

WATER YEAR 1972 : Max. 85 Min. 0.38 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 24	23.00	349.30	255				

YOM RIVER BASIN

Mae Yom River at Below Sop Ngao, Phrae (Y20)

Location: Lat. 18°-35'-03" N., Long. 100°-09'-17" E., on left bank at below Sop Ngao about 1 kilometer. Tambon Tow Poon, Amphoe Song, Phrae.

Drainage Area: 5,410 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 180.976 m. (M.S.L.)

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

Location: Near the automatic gage building.
Elevation: + 193.552 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1971 to date.

Rating Operation:

Period of Rating: 1972 to date.
Rated by Float: -
Rated by Current Meter: 1972 to date.

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

Overbank Flow Conditions: No overbank flow.

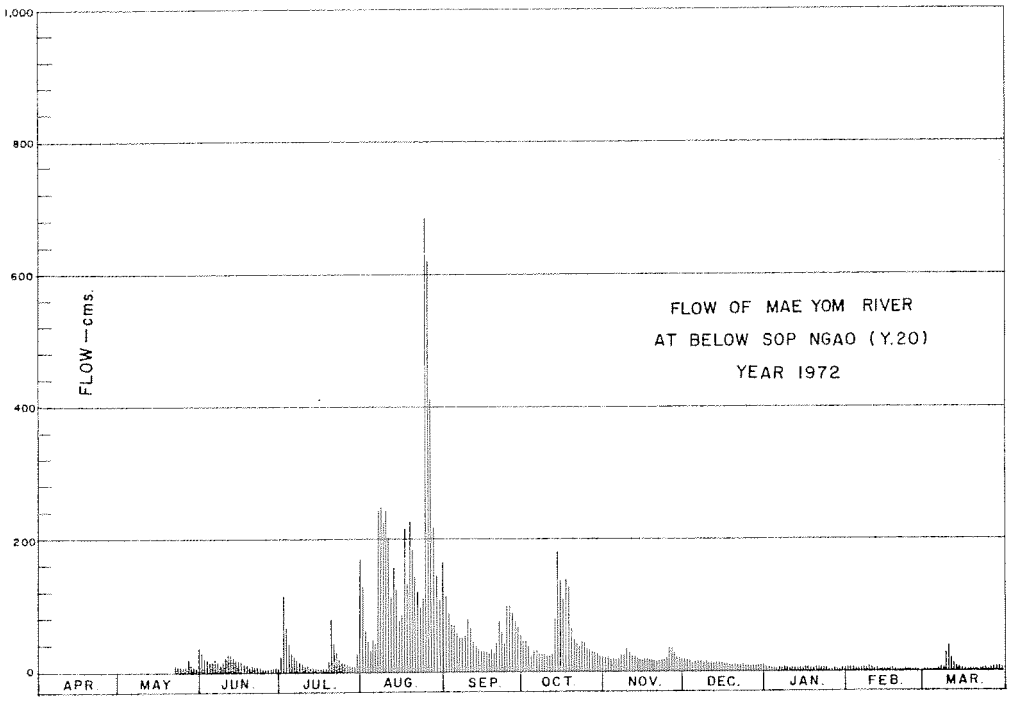
General Description: Records good. Stage-discharge relation defined by 212 discharge measurements made in 1972.

Remarks: Stream gaging began on May 22, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			182.41	182.74	183.53	183.91	182.71	182.31	182.26	182.02	181.92	181.84
2			.29	183.64	182.93	.49	.74	.29	.24	.02	.91	.83
3			.28	182.80	.70	.19	.59	.28	.23	.01	.91	.83
4			.17	.65	.48	.09	.55	.27	.21	.01	.91	.84
5			.25	.37	.78	.01	.55	.25	.19	.01	.91	.84
6			182.26	182.27	182.65	182.85	182.49	182.28	182.18	182.01	181.91	181.84
7			.13	.18	184.89	.85	.43	.43	.17	.00	.91	.84
8			.15	.14	.94	.84	.39	.44	.17	181.99	.91	.88
9			.27	.10	.74	.90	.37	.51	.17	.98	.90	182.47
10			.40	.07	.89	183.25	.36	.45	.16	.98	.90	.60
11			182.42	182.03	184.45	182.86	182.39	182.37	182.15	181.99	181.90	182.17
12			.35	.00	183.64	.69	.49	.33	.14	.99	.88	.11
13			.28	181.99	184.11	.57	183.36	.30	.13	182.00	.89	.02
14			.18	.99	183.69	.50	184.36	.28	.14	181.99	.89	181.95
15			.18	.98	.19	.46	183.77	.27	.15	.98	.89	.93
16			182.16	181.98	183.35	182.45	183.55	182.25	182.13	181.97	181.88	181.91
17			.06	.97	184.68	.45	.96	.26	.12	.97	.88	.90
18			.05	.99	183.87	.45	.82	.24	.11	.96	.87	.90
19			.03	182.26	184.76	.51	.08	.23	.10	.96	.87	.90
20			.03	183.17	.16	.44	182.79	.22	.10	.96	.86	.89
21			182.00	182.70	183.88	182.79	182.67	182.25	182.08	181.96	181.86	181.89
22		182.03	181.98	.37	.62	183.20	.61	.25	.06	.95	.86	.91
23		181.98	.97	.23	.42	182.92	.69	.29	.06	.94	.85	.94
24		.96	.95	.15	.62	.69	.75	.31	.06	.94	.85	.91
25		.95	.95	.10	187.59	183.49	.59	.64	.05	.94	.85	.89
26		181.95	181.93	182.08	187.32	183.47	182.51	182.58	182.05	181.93	181.85	181.90
27		182.28	.94	.07	185.23	.30	.47	.43	.03	.93	.84	182.00
28		.03	.96	.06	184.55	.08	.44	.34	.03	.93	.84	181.99
29		181.98	.95	.05	183.95	.01	.39	.31	.03	.93		.96
30		.97	182.02	.52	.54	182.86	.36	.27	.03	.92		.94
31		182.61		184.24	184.20		.33		.03	.92		.92
Mean			182.13	182.35	184.08	182.92	182.79	182.33	182.12	181.97	181.88	181.96
Max.			182.41	184.24	187.59	183.91	184.36	182.64	182.26	182.02	182.92	182.60
Min.			181.93	181.97	182.48	182.44	182.33	182.22	182.03	181.92	181.84	181.83

WATER YEAR 1972 : Max. 187.59 m. Min. 181.83 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			27	47	104	137	45	21	19	7.80	4.60	2.80
2			20	113	60	101	47	20	18	7.80	4.30	2.60
3			20	51	44	78	37	20	17	7.40	4.30	2.60
4			14	41	31	71	35	19	16	7.40	4.30	2.80
5			18	24	50	66	35	18	15	7.40	4.30	2.80
6			19	19	41	54	31	20	15	7.40	4.30	2.80
7			12	15	243	54	28	28	14	7.00	4.30	2.80
8			13	14	249	54	25	28	14	6.70	4.30	3.60
9			19	11	225	58	24	33	14	6.40	4.00	30
10			26	9.80	243	82	24	29	14	6.40	4.00	38
11			27	8.20	191	55	25	24	13	6.70	4.00	14
12			23	7.00	115	43	31	22	13	6.70	3.60	11
13			20	6.70	157	36	91	21	12	7.00	3.80	7.80
14			15	6.70	117	32	182	20	13	6.70	3.80	5.50
15			15	6.40	78	30	124	19	13	6.40	3.80	4.90
16			14	6.40	90	29	106	18	12	6.10	3.60	4.30
17			9.40	6.10	218	29	142	19	12	6.10	3.60	4.00
18			9.00	6.70	133	29	129	18	11	5.80	3.40	4.00
19			8.20	19	227	33	71	17	11	5.80	3.40	4.00
20			8.20	78	162	28	50	17	11	5.80	3.20	3.80
21			7.00	44	134	50	42	18	10	5.80	3.20	3.80
22		8.20	6.40	24	112	79	39	18	9.40	5.50	3.20	4.30
23		6.40	6.10	17	96	59	47	20	9.40	5.20	3.00	5.20
24		5.80	5.50	13	112	43	47	21	9.40	5.20	3.00	4.30
25		5.50	5.50	11	682	101	37	40	9.00	5.20	3.00	3.80
26		5.50	4.90	10	620	100	33	37	9.00	4.90	3.00	4.00
27		20	5.20	9.80	284	86	30	28	8.20	4.90	2.80	7.00
28		8.20	5.80	9.40	202	71	28	23	8.20	4.90	2.80	6.70
29		6.40	5.50	9.00	141	66	25	21	8.20	4.90		5.80
30		6.10	7.80	33	105	55	24	19	8.20	4.90		5.20
31		39		170	166		22		8.20	4.60		4.60
Total			396.50	846.20	5,430	1,809	1,656	676	374.20	190.50	102.90	208.80
Mean			13.2	27.3	175	60.3	53.4	22.5	12.1	6.14	3.67	6.73
Max.			27	170	682	137	182	40	19	7.80	4.60	38
Min.			4.90	6.10	31	28	22	17	8.20	4.60	2.80	2.60
Runoff - mcm.			34.258	73.112	469.915	156.298	143.078	58.406	32.331	16.459	8.890	18.040

WATER YEAR 1972 : Max. 682 Min. 2.60 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 25	18.00	188.91	1,362				

NAN RIVER BASIN

Nan River at Forestry Office, Nan (N1)

Location: Lat. 18°-46'-33" 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: B.M.1 + 199.362 m. (M.S.L.), B.M.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.

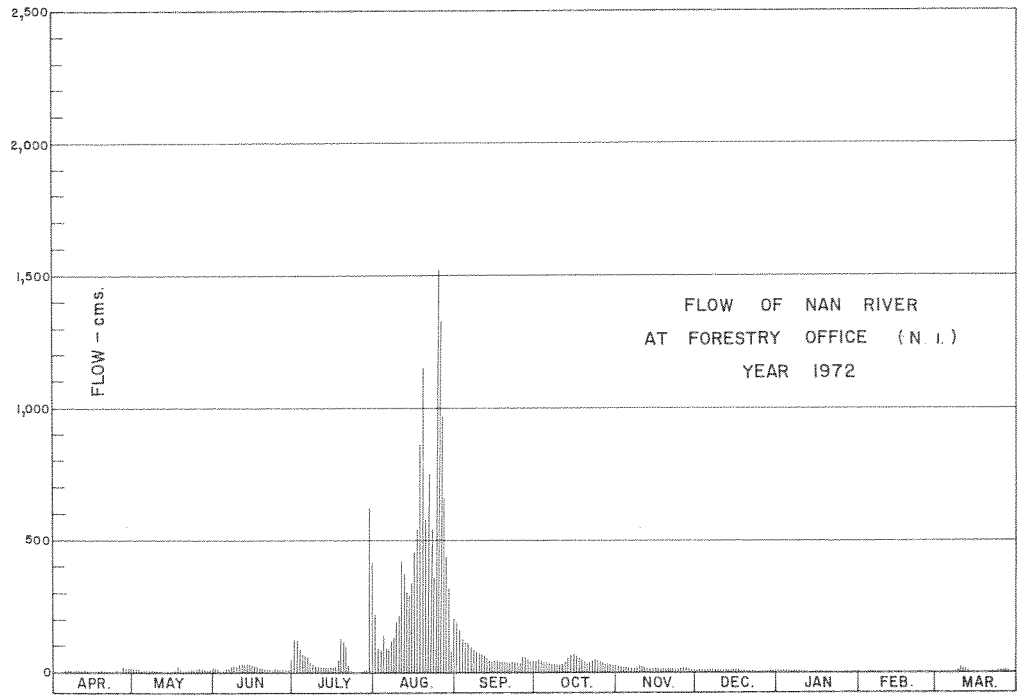
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 614, discharge measurements made during 1954-1956.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	192.76	193.07	193.20	194.39	194.92	194.77	193.70	193.35	193.18	192.97	192.88	192.77
2	.76	.12	.09	.41	.21	.55	.73	.35	.13	.98	.87	.76
3	.89	.08	192.99	.25	193.98	.39	.65	.33	.19	.96	.87	.76
4	.94	.06	.96	193.90	194.50	.33	.63	.32	.18	.96	.87	.75
5	.94	.04	.97	.87	.07	.30	.60	.31	.17	.96	.86	.75
6	192.94	193.03	193.04	193.84	194.01	194.12	193.54	193.30	193.15	192.96	192.86	192.75
7	.92	.02	.24	.66	.38	.03	.49	.29	.15	.96	.86	.74
8	.90	.02	.38	.47	.45	.00	.49	.31	.14	.96	.86	.84
9	.90	.02	.30	.44	.80	193.98	.47	.38	.16	.96	.85	193.03
10	.86	.01	.38	.40	195.04	.93	.46	.36	.15	.95	.84	.41
11	192.84	193.00	193.45	193.38	195.90	193.89	193.49	193.32	193.15	192.95	192.84	193.26
12	.84	192.99	.41	.36	.67	.75	.62	.28	.15	.94	.84	.12
13	.84	.97	.46	.34	.36	.68	.79	.25	.14	.93	.83	192.98
14	.84	.96	.45	.33	.30	.64	.90	.22	.14	.93	.83	.89
15	.84	.93	.44	.32	196.00	.64	.90	.21	.13	.93	.83	.84
16	192.84	192.90	193.35	193.32	196.10	193.66	193.84	193.21	193.11	192.93	192.83	192.80
17	.84	193.00	.30	.44	.47	.62	.80	.20	.09	.92	.83	.80
18	.83	.31	.27	.79	197.45	.64	.74	.22	.08	.90	.82	.81
19	.80	.03	.14	194.42	198.05	.60	.65	.22	.07	.90	.82	.82
20	.80	192.88	.10	.31	196.52	.57	.57	.18	.06	.90	.82	.82
21	192.80	192.97	193.09	194.14	197.00	193.57	193.57	193.20	193.06	192.90	192.81	192.82
22	.78	.99	.08	192.96	196.76	.61	.61	.18	.05	.89	.78	.81
23	.78	.99	.08	.89	195.65	.64	.69	.19	.06	.89	.78	.82
24	.78	.98	.10	.86	197.47	.59	.74	.25	.02	.89	.78	.99
25	.79	193.07	.08	.82	198.96	.56	.64	.25	.01	.88	.78	193.10
26	192.79	193.12	193.07	192.81	198.18	193.82	193.57	193.30	193.00	192.88	192.77	193.08
27	193.33	192.94	.04	.80	196.56	.83	.50	.24	.01	.88	.77	.06
28	.11	.92	.03	.76	195.87	.69	.48	.18	.00	.88	.77	.02
29	.23	.93	.03	193.09	.45	.64	.46	.14	192.99	.88	-	192.97
30	.25	.94	.65	196.64	194.04	.66	.40	.13	.98	.88	-	.96
31	-	193.29	-	195.64	.87	-	.38	-	.98	.88	-	.95
Mean	193.89	193.02	193.20	193.68	195.74	193.86	193.62	193.25	193.09	192.92	192.83	192.91
Max.	193.33	193.31	193.65	196.64	198.96	194.77	193.90	193.38	193.19	192.98	192.88	193.41
Min.	192.76	192.88	192.96	192.76	193.98	193.56	193.38	193.13	192.98	192.88	192.77	192.74

WATER YEAR 1972 : Max. 198.96 m. Min. 192.74 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.90	9.47	15	126	212	187	50	24	14	6.05	4.70	3.05
2	2.90	12	10	130	104	151	53	24	12	6.20	4.55	2.90
3	4.85	9.90	6.35	109	79	126	46	23	15	5.90	4.55	2.90
4	5.60	9.05	5.90	70	143	119	45	23	14	5.90	4.55	2.75
5	5.60	8.20	6.05	67	89	115	42	22	14	5.90	4.40	2.75
6	5.60	7.77	8.20	63	82	94	37	21	13	5.90	4.40	2.75
7	5.30	7.35	17	47	125	84	34	20	13	5.90	4.40	2.60
8	5.00	7.35	26	32	136	81	34	22	12	5.90	4.40	4.10
9	5.00	7.35	21	30	192	79	32	26	13	5.90	4.25	7.77
10	4.40	6.92	26	27	234	73	31	25	13	5.75	4.10	28
11	4.10	6.50	31	26	414	69	34	23	13	5.75	4.10	19
12	4.10	6.35	28	25	362	55	44	20	13	5.60	4.10	12
13	4.10	6.05	31	24	296	49	58	18	12	5.45	3.95	6.20
14	4.10	5.90	31	23	284	45	70	16	12	5.45	3.95	4.85
15	4.10	5.45	30	23	437	45	70	16	12	5.45	3.95	4.10
16	4.10	5.00	24	23	461	47	63	16	11	5.45	3.95	3.50
17	4.10	6.35	21	30	565	44	59	15	10	5.30	3.95	3.50
18	3.95	22	19	58	908	45	54	16	9.90	5.00	3.80	3.65
19	3.50	7.77	12	131	1,148	42	46	16	9.47	5.00	3.80	3.80
20	3.50	4.70	10	116	580	40	40	14	9.05	5.00	3.80	3.80
21	3.50	6.05	10	96	743	40	40	15	9.05	5.00	3.65	3.80
22	3.20	6.35	9.90	5.90	660	43	43	14	8.62	4.85	3.20	3.65
23	3.20	6.35	9.90	4.85	357	45	50	15	9.05	4.85	3.20	3.80
24	3.20	6.20	11	4.40	916	41	54	18	7.35	4.85	3.20	6.35
25	3.35	9.47	9.90	3.80	1,516	39	45	18	6.92	4.70	3.20	11
26	3.35	12	9.47	3.65	1,200	61	40	21	6.50	4.70	3.05	9.90
27	23	5.60	8.20	3.50	593	62	34	17	6.92	4.70	3.05	9.05
28	11	5.30	7.77	2.90	430	50	33	14	6.50	4.70	3.05	7.35
29	17	5.45	7.77	10	314	45	31	12	6.35	4.70	–	6.05
30	18	5.60	46	620	85	47	27	12	6.20	4.70	–	5.90
31	–	20	–	355	204	–	26	–	6.20	4.70	–	5.75
Total	175.60	249.80	508.41	2,280	13,869	2,063	1,365	556	324.08	165.20	109.25	196.57
Mean	5.85	8.06	16.9	73.5	447	68.8	44.0	18.5	10.4	5.33	3.90	6.34
Max.	23	22	46	620	1,516	187	70	26	15	6.20	4.70	28
Min.	2.90	4.70	5.90	2.90	79	39	26	12	6.20	4.70	3.05	2.60
Runoff - mcm.	15.172	21.583	43.927	196.992	1,198.282	178.243	117.936	48.038	28.000	14.273	9.439	16.984

WATER YEAR 1972 : Max. 1,516 Min. 2.60 Mean 59.9 Annual Runoff 1,888.869 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 25, 72	20.00	199.10	1,573				

NAN RIVER BASIN

Nan River at Tha It, Uttaradit (N2A)

Location: Lat. 17°-37'-58" N., Long. 100°-06'-07" E., on right bank downstream of Muang Uttradit Kindergarten, Amphoe Muang, Uttaradit.

Drainage Area: 16,863 Sq.km.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 53.00 m. (M.S.L.)

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

Location: Infront of Uttaradit Kingdergarten, north of railway station.
Elevation: + 62.154 m. (M.S.L.)

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

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

Period of Available Gage Records: 1962 to date.

Rating Operation:

Period of Rating: 1962-1963, 1965-1974.
Rated by Float: -
Rated by Current Meter: 1962-1963, 1965-1974.

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

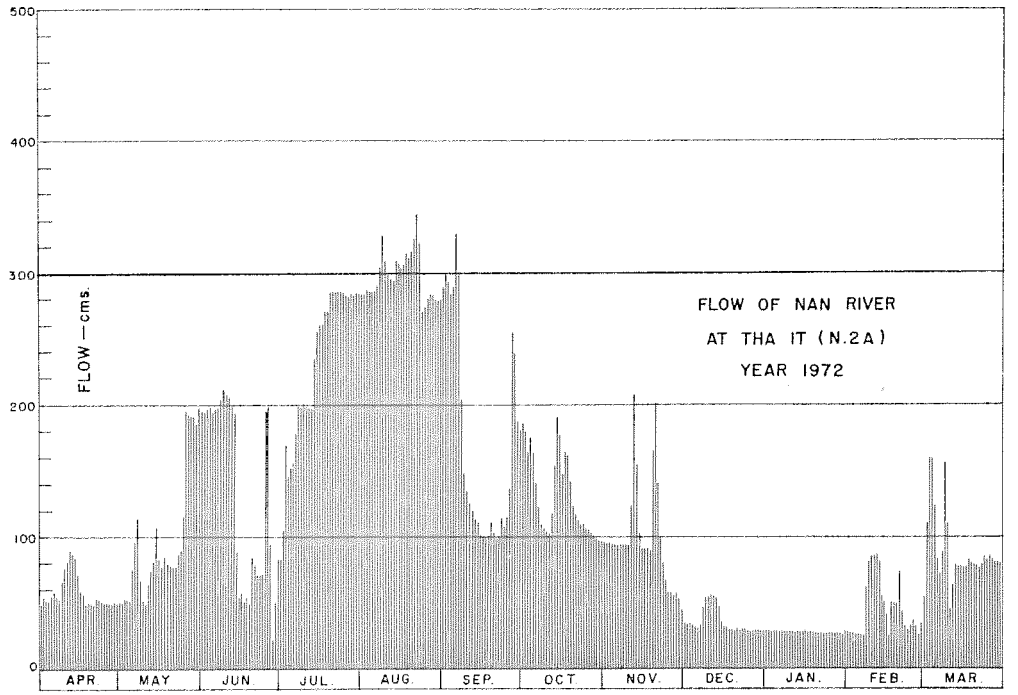
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 54 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	53.87	53.90	55.28	54.29	55.87	55.94	55.21	54.44	53.61	53.52	53.50	53.99
2	.91	.90	.27	.73	.88	.96	.17	.43	.59	.52	.49	54.92
3	.88	.91	.30	55.10	.89	.91	.05	.43	.58	.52	.49	55.02
4	.88	.90	.30	54.90	.88	.87	.14	.42	.57	.52	.49	.00
5	.98	.91	.27	55.00	.88	.98	.05	.42	.56	.52	.49	54.44
6	53.94	54.37	55.29	55.00	55.89	56.14	54.82	54.42	53.56	53.52	53.49	54.20
7	.91	.52	.30	.31	.93	55.56	.66	.42	.64	.52	.49	.16
8	.88	.61	.36	.30	56.02	54.97	.57	.42	.92	.52	54.09	.35
9	54.12	53.95	.41	.30	.13	.83	.53	.42	.93	.52	.31	.98
10	.25	.89	.37	.30	55.99	.75	.50	.42	.94	.52	.32	.00
11	54.29	53.87	55.38	55.30	55.95	54.71	54.52	54.89	53.94	53.51	54.32	53.77
12	.38	54.18	.32	.29	.94	.66	.79	55.37	.93	.51	.32	54.19
13	.35	.20	.15	.29	.96	.61	55.09	54.94	.93	.51	.26	.24
14	.30	.43	54.25	.62	56.03	.57	.25	.40	.84	.51	53.94	.23
15	.11	.55	53.93	.72	.01	.48	.05	.39	.57	.51	.87	.23
16	53.96	54.21	53.97	55.73	55.99	54.49	54.90	54.39	53.56	53.51	54.87	54.23
17	.95	.23	.88	.74	56.02	.48	55.04	.38	.55	.50	.73	.23
18	.83	.31	.95	.79	.06	.49	.02	.41	.54	.50	.95	.27
19	.88	.25	.86	.78	.04	.59	54.82	55.20	.54	.50	.95	.24
20	.87	.23	54.31	.88	.08	.49	.70	.33	.54	.50	.94	.23
21	53.85	54.22	54.19	55.88	56.14	54.46	54.65	54.55	53.53	53.50	54.18	54.22
22	.93	.23	.12	.88	.22	.53	.61	.38	.53	.50	53.61	.22
23	.90	.37	.14	.88	55.94	.63	.56	.16	.53	.50	.57	.25
24	.88	.39	.14	.88	.79	.55	.57	53.98	.53	.50	.57	.31
25	.86	.91	55.29	.87	.82	.70	.53	.97	.52	.50	.62	.27
26	53.86	55.27	55.30	55.86	55.87	54.90	54.50	53.96	53.52	53.50	53.65	54.33
27	.86	.26	53.62	.86	.87	55.67	.48	.95	.52	.50	.50	.26
28	.87	.26	.35	.87	.86	.51	.47	.96	.52	.50	.48	.26
29	.88	.24	54.25	.86	.84	.21	.46	.95	.52	.50	-	.27
30	.85	.21	.30	.87	.84	.18	.45	.84	.52	.49	-	.26
31	-	.30	-	.87	.85	-	.44	-	.52	.51	-	.25
Mean	53.98	54.43	54.66	55.51	55.96	55.03	54.76	54.42	53.63	53.51	53.98	54.32
Max.	54.38	55.30	55.41	55.88	56.22	56.14	55.25	55.37	53.94	53.52	54.95	55.02
Min.	53.83	53.87	53.35	54.29	55.79	54.46	54.44	53.84	53.52	53.49	53.48	53.77

WATER YEAR 1972 : Max. 56.22 m. Min. 53.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	50	52	195	83	283	294	185	96	35	29	28	59
2	53	52	194	126	285	298	180	95	33	29	27	148
3	51	53	198	170	286	290	164	95	33	29	27	160
4	51	52	198	146	285	283	176	94	32	29	27	158
5	58	53	194	158	285	301	164	94	32	29	27	96
6	55	90	197	158	286	329	136	94	32	29	27	76
7	53	104	198	199	293	234	119	94	36	29	27	73
8	51	113	206	198	308	154	109	94	54	29	67	88
9	70	56	213	198	327	138	105	94	54	29	85	156
10	80	51	208	198	302	128	102	94	55	29	86	60
11	83	50	209	198	296	124	104	145	55	29	86	44
12	90	74	201	197	294	119	133	208	54	29	86	75
13	88	76	177	197	294	113	169	151	54	29	81	79
14	84	95	80	243	309	109	191	92	48	29	55	78
15	69	107	54	259	306	100	164	91	32	29	50	78
16	57	77	58	261	302	101	146	91	32	29	142	78
17	56	78	51	262	308	100	163	90	31	28	126	78
18	48	85	56	270	315	101	160	93	30	28	152	82
19	51	80	50	269	311	111	136	184	30	28	152	79
20	50	78	85	285	318	101	123	200	30	28	151	78
21	49	78	75	285	329	98	117	107	30	28	74	78
22	54	78	70	285	344	105	113	90	30	28	35	78
23	52	90	71	285	294	115	108	73	30	28	32	80
24	51	91	71	285	270	107	109	58	30	28	32	85
25	50	147	197	283	275	123	105	58	29	28	35	82
26	50	194	198	282	283	146	102	57	29	28	37	86
27	50	192	35	282	283	251	100	56	29	28	28	81
28	50	192	20	283	282	227	99	57	29	28	27	81
29	51	190	80	282	278	185	98	56	29	28	–	82
30	49	185	84	283	278	181	97	48	29	27	–	81
31	–	198	–	283	280	–	96	–	29	29	–	80
Total	1,754	3,111	3,923	7,193	9,193	5,066	4,073	2,949	1,115	884	1,809	2,717
Mean	58.5	100	131	232	296	169	131	98.3	36.0	28.5	64.6	87.6
Max.	90	198	213	285	344	329	191	208	55	29	152	160
Min.	48	50	20	83	270	98	96	48	29	27	27	44
Runoff – mcm.	151.546	268.790	338.947	621.475	794.275	437.702	351.907	254.794	96.336	76.378	156.298	234.749

WATER YEAR 1972 : Max. 344 Min. 20 Mean 120 Annual Runoff 3,783.197 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 22, 72	17.00	56.24	347				

NAN RIVER BASIN

Nan River at Ban Wang Phaniat, Uttaradit (N4)

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: 3-time daily readings at 09.00, 12.00 and 15.00 hours.

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

Period of Available Gage Records: 1946 to date.

Rating Operation:

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

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

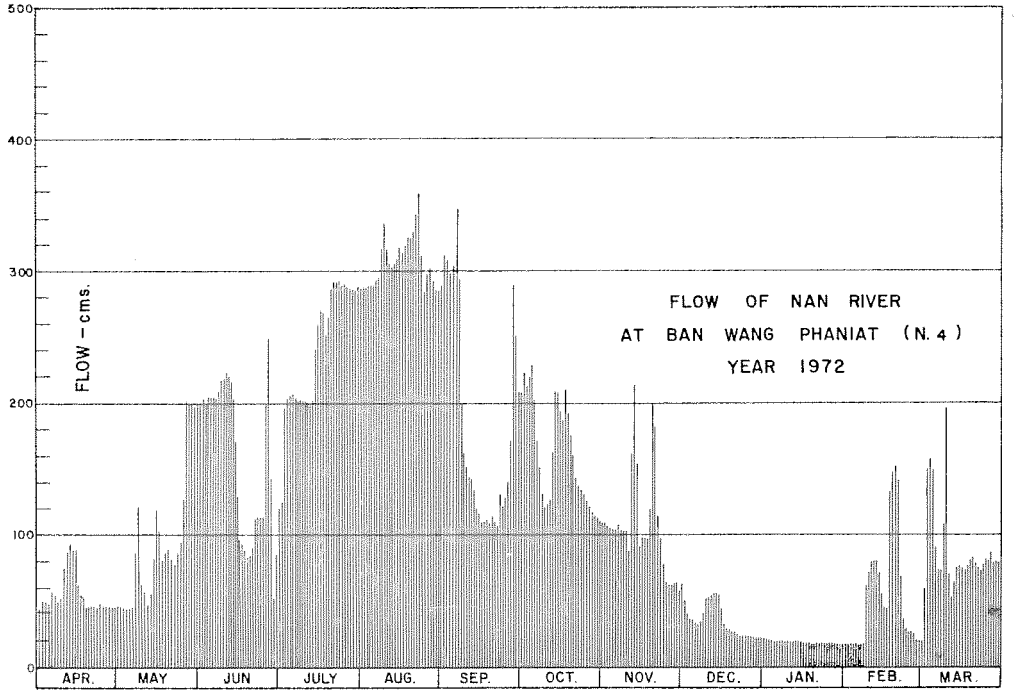
Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods on June 1 - 30 and December 1 - 31, which are poor. Stage discharge relation defined by 50 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.45	45.45	*46.74	46.15	47.31	47.34	46.81	46.05	*45.64	45.13	45.08	45.12
2	.46	.45	* .77	.20	.31	.45	.90	.04	* .50	.13	.08	.66
3	.49	.43	* .74	.69	.31	.43	.83	.02	* .38	.13	.08	46.37
4	.48	.43	* .78	.77	.33	.37	.89	.02	* .34	.12	.08	.44
5	.47	.43	* .78	.78	.33	.35	.95	.01	* .32	.12	.08	.36
6	45.57	45.43	*46.77	46.80	47.33	47.49	46.68	46.02	*45.31	45.12	45.07	45.90
7	.54	.63	* .77	.78	.35	.64	.45	.04	* .29	.12	.07	.75
8	.49	46.06	* .81	.76	.37	46.80	.28	.00	* .28	.11	.07	.73
9	.48	.15	* .87	.76	.55	.48	.20	.00	* .41	.11	.62	46.07
10	.72	45.62	* .87	.75	.59	.41	.14	.00	* .53	.11	.74	.72
11	45.83	45.50	*46.91	46.75	47.45	46.33	46.17	45.87	*45.55	45.11	45.79	45.72
12	.87	.45	* .88	.74	.41	.32	.20	46.61	* .55	.11	.80	.53
13	.92	.45	* .85	.74	.40	.23	.49	.85	* .56	.11	.81	.65
14	.87	.75	* .75	.77	.44	.13	.81	.35	* .56	.11	.71	.77
15	.88	.93	* .29	47.12	.49	.10	.80	45.91	* .54	.10	.50	.76
16	45.65	46.13	*45.94	47.19	47.48	46.05	46.67	45.96	*45.42	45.10	45.44	45.75
17	.54	45.82	* .91	.21	.46	.06	.65	.96	* .27	.10	.43	.74
18	.51	.80	* .87	.20	.50	.07	.82	.95	* .24	.10	46.27	.79
19	.44	.86	* .83	.10	.53	.05	.66	46.17	* .23	.09	.38	.82
20	.46	.88	* .84	.25	.52	.09	.53	.75	* .21	.09	.40	.83
21	45.46	45.82	*45.89	47.33	47.56	46.04	46.38	46.63	*45.21	45.09	46.31	45.78
22	.44	.80	*46.08	.34	.63	.03	.29	.10	* .19	.09	45.66	.76
23	.46	.75	* .08	.34	.70	.23	.27	45.96	* .17	.09	.33	.74
24	.47	.80	* .08	.34	.37	.16	.23	.77	* .17	.09	.23	.78
25	.45	.95	* .08	.33	.28	.23	.22	.65	* .17	.09	.22	.82
26	45.45	46.42	*46.77	47.33	47.36	46.35	46.17	45.63	*45.17	45.08	45.22	45.80
27	.45	.76	*47.08	.31	.40	.58	.14	.63	* .16	.08	.17	.86
28	.45	.74	*46.37	.31	.36	47.32	.11	.65	* .16	.08	.11	.79
29	.45	.74	*45.52	.31	.32	.01	.09	.65	* .15	.08	-	.80
30	.45	.72	* .91	.31	.30	46.80	.08	.58	* .15	.08	-	.79
31	-	.74	-	.32	.30	-	.06	-	* .15	.08	-	.78
Mean	45.55	45.90	46.43	46.81	47.42	46.60	46.45	46.03	45.32	45.10	45.49	45.84
Max.	45.92	46.76	47.08	47.34	47.70	47.64	46.95	46.85	45.64	45.13	46.40	46.72
Min.	45.45	45.43	45.52	46.15	47.28	46.03	46.06	45.58	45.15	45.08	45.07	45.12

WATER YEAR 1972 : Max. 47.70 m. Min. 45.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45	45	199	121	286	291	208	109	63	21	18	20
2	46	45	205	127	286	311	221	108	50	21	18	65
3	49	44	199	192	286	307	211	105	39	21	18	149
4	48	44	204	203	289	297	220	105	36	20	18	158
5	47	44	204	204	289	293	228	104	35	20	18	148
6	56	44	203	207	289	318	190	105	34	20	17	91
7	54	62	203	204	293	346	159	108	32	20	17	74
8	49	110	208	201	297	207	137	103	32	20	17	72
9	48	121	217	201	329	163	127	103	42	20	61	111
10	71	61	217	200	336	154	120	103	53	20	73	196
11	83	57	222	200	311	144	123	88	54	20	79	71
12	88	45	218	199	304	143	127	180	54	20	80	53
13	93	45	214	199	302	131	165	214	55	20	81	64
14	88	74	200	203	309	119	208	146	55	20	70	77
15	89	95	139	254	318	115	207	92	54	19	50	76
16	64	119	96	265	316	109	189	98	43	19	45	74
17	54	82	92	269	313	110	186	98	31	19	44	73
18	51	80	88	267	320	111	210	97	29	19	136	79
19	45	87	83	251	325	109	187	123	28	18	150	82
20	46	89	84	275	324	114	170	200	27	18	153	83
21	46	82	90	289	331	108	150	183	27	18	141	78
22	45	80	113	291	344	107	139	115	25	18	65	76
23	46	74	113	291	358	131	136	98	24	18	35	73
24	47	89	113	291	297	122	131	77	24	18	28	78
25	45	97	113	289	281	131	130	64	24	18	27	82
26	45	156	203	289	295	146	123	62	24	18	27	80
27	45	201	248	286	302	176	120	62	23	18	24	87
28	45	199	149	286	295	288	116	64	23	18	20	79
29	45	199	52	286	288	237	114	64	22	18	–	80
30	45	196	92	286	284	207	113	57	22	18	–	79
31	45	199	–	288	284	–	110	–	22	18	–	78
Total	1,668	2,965	4,779	7,414	9,481	5,545	4,975	3,235	1,106	593	1,530	2,686
Mean	55.6	95.6	159	239	306	185	160	108	35.7	19.1	54.6	86.6
Max.	93	201	248	291	358	346	228	214	63	21	153	196
Min.	45	44	52	121	281	107	110	57	22	18	17	20
Runoff - mcm.	144.115	256.176	412.906	640.570	819.158	479.088	429.840	279.504	95.558	51.235	132.192	232.070

WATER YEAR 1972 : Max. 358 Min. 17 Mean 126 Annual Runoff 3,972.413 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 23, 72	06.00	47.72	362				

NAN RIVER BASIN

Nan River at Amphoe Muang, Phitsanulok (N5A)

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 N5, 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: Stable, no shifting adjustment for flow computation.

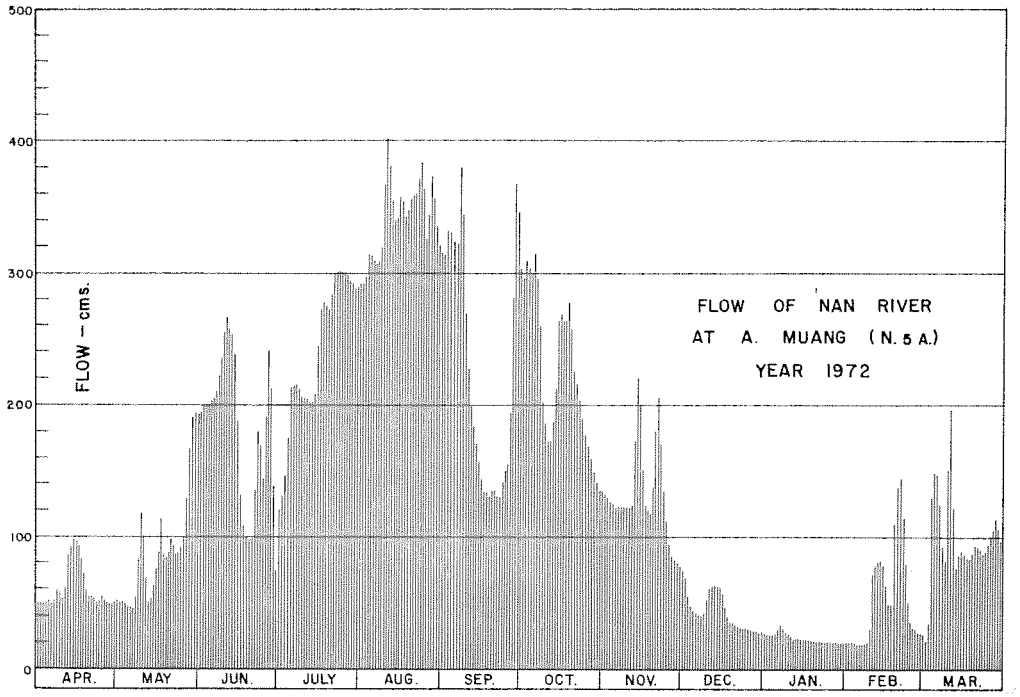
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented by 59 discharge measurements in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35.07	35.11	36.88	36.05	37.84	38.02	37.90	36.21	35.46	34.70	34.54	34.68
2	.06	.09	.94	.19	.84	.06	.86	.16	.34	.69	.54	.58
3	.07	.08	.95	.25	.91	.19	.99	.13	.15	.68	.54	.85
4	.10	.06	.95	.74	38.04	.19	.95	.10	.04	.68	.54	36.12
5	.11	.04	.98	37.08	.03	.11	.89	.08	.00	.67	.53	.40
6	35.09	35.03	37.01	37.09	37.99	38.08	38.04	36.06	34.97	34.73	34.53	36.36
7	.19	.02	.06	.12	.98	.29	37.84	.07	.94	.80	.53	35.89
8	.23	.21	.15	.09	38.00	.60	.37	.06	.93	.78	.53	.60
9	.18	.73	.35	.03	.12	.04	36.98	.06	.95	.71	.53	.56
10	.14	36.00	.51	.01	.64	37.44	.79	.07	35.18	.68	.80	36.29
11	35.29	35.58	37.60	36.99	38.79	37.11	36.65	36.06	35.27	34.65	35.40	36.92
12	.61	.19	.49	.97	.55	36.91	.66	.11	.29	.63	.50	.07
13	.71	.06	.48	.96	.36	.77	.83	.75	.30	.62	.54	35.49
14	.77	.19	.32	.97	.26	.61	37.25	37.15	.29	.62	.56	.63
15	.75	.42	36.89	37.07	.31	.48	.59	36.65	.27	.62	.51	.66
16	35.71	35.59	36.22	37.47	38.42	36.32	37.63	36.15	35.21	34.61	35.29	35.62
17	.57	.95	35.93	.66	.38	.23	.57	.05	.02	.61	.06	.59
18	.31	.69	.82	.71	.30	.21	.58	.03	34.89	.61	.05	.59
19	.23	.58	.76	.68	.37	.18	.70	.00	.85	.59	.87	.63
20	.15	.63	.78	.65	.41	.22	.51	.17	.82	.59	36.21	.71
21	35.17	35.76	35.77	37.81	38.41	36.23	37.21	36.92	34.81	34.59	36.38	35.71
22	.12	.67	36.27	.91	.45	.16	.02	37.00	.79	.59	.28	.65
23	.09	.63	.74	.91	.54	.17	36.92	36.38	.77	.58	35.66	.62
24	.10	.64	.59	.92	.64	.32	.81	.03	.75	.57	.06	.64
25	.16	.73	.33	.91	.36	.44	.69	35.86	.75	.57	34.84	.67
26	35.14	35.80	36.58	37.91	38.15	36.49	36.61	35.67	34.75	34.57	34.76	35.80
27	.09	36.21	37.35	.88	.40	.99	.51	.59	.73	.57	.76	.84
28	.09	.79	.07	.84	.53	37.75	.42	.57	.72	.56	.70	.96
29	.07	.88	35.90	.82	.37	38.49	.34	.53	.72	.56	-	.87
30	.08	.89	.46	.80	.20	.30	.28	.50	.71	.55	-	.75
31	-	.88	-	.81	.07	-	.23	-	.70	.55	-	.72
Mean	35.25	35.65	36.70	37.33	38.28	37.18	37.18	36.14	34.98	34.63	35.11	35.72
Max.	35.77	36.89	37.60	37.92	38.79	38.60	38.04	37.15	35.46	34.80	36.38	36.92
Min.	35.06	35.02	35.46	36.05	37.84	36.16	36.23	35.50	34.70	34.55	34.53	34.58

WATER YEAR 1972 : Max. 38.79 m. Min. 34.53 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	49	52	193	121	292	312	299	134	75	28	20	27
2	49	50	199	132	292	317	295	130	67	27	20	22
3	49	50	200	137	300	331	309	127	54	27	20	36
4	51	49	200	180	314	331	304	125	47	27	20	127
5	52	47	203	213	313	322	298	123	45	26	19	149
6	50	47	206	214	309	319	314	122	43	30	19	146
7	56	46	211	217	308	342	292	123	41	33	19	108
8	59	58	220	214	310	379	242	122	41	32	19	85
9	56	95	240	208	323	314	203	122	42	28	19	82
10	53	117	256	206	384	249	184	123	56	27	33	140
11	63	84	266	204	402	216	171	122	62	25	71	197
12	86	56	254	202	373	196	172	126	63	24	78	123
13	94	49	253	201	350	182	188	180	64	24	81	77
14	99	56	237	202	339	168	230	220	63	24	82	88
15	97	72	194	212	344	156	265	171	62	24	79	90
16	94	84	135	252	357	143	269	129	58	23	63	87
17	83	113	111	273	353	135	263	121	46	23	49	84
18	65	92	103	278	343	134	264	119	38	23	48	84
19	59	84	98	275	351	131	277	117	36	22	107	87
20	54	87	99	271	356	135	256	131	35	22	134	94
21	55	98	99	289	356	135	226	197	34	22	147	94
22	52	91	139	300	361	130	207	205	33	22	139	89
23	50	87	180	300	372	131	197	147	32	22	90	87
24	51	88	166	301	384	143	186	119	31	21	49	88
25	55	95	143	300	350	153	175	106	31	21	36	91
26	53	101	193	300	326	157	168	91	31	21	31	101
27	50	134	240	297	355	204	159	84	30	21	31	104
28	50	184	212	292	371	282	151	83	29	21	28	114
29	49	193	109	290	351	366	144	80	29	21	–	107
30	50	194	75	288	332	343	139	78	28	20	–	97
31	–	193	–	289	318	–	135	–	28	20	–	95
Total	1,833	2,846	5,434	7,458	10,589	6,856	6,982	3,877	1,374	751	1,551	2,999
Mean	61.1	91.8	181	240	341	228	225	129	44.3	24.2	55.4	96.7
Max.	99	194	266	301	402	379	314	220	75	33	147	197
Min.	49	46	75	121	292	130	135	78	28	20	19	22
Runoff - MCM.	158.371	245.894	469.498	644.371	914.890	592.358	603.245	334.973	118.714	64.886	134.006	259.114

WATER YEAR 1972 : Max. 402 Min. 19 Mean 144 Annual Runoff 4,540.320 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 11, 72	01.00	38.84	408				

NAN RIVER BASIN

Nan River at Phichit, Phichit (N1)

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: 8-time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 22.00 and 24.00 hours.

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

Period of Available Gage Records: 1934 to date.

Rating Operation:

Period of Rating: 1965–1967, 1973 to date.
Rated by Float: –
Rated by Current Meter: 1965–1967, 1973 to date.

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

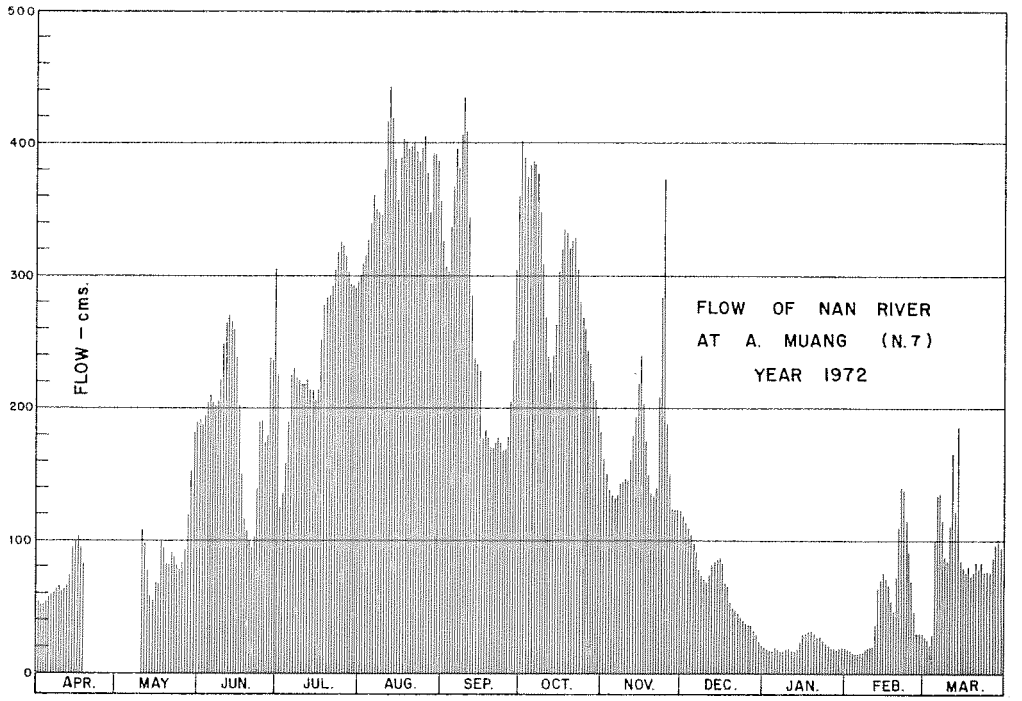
Overbank Flow Conditions: No overbank flow.

General Description: Records fair, except those for periods of no gage height April 19 – May 10, which are poor. Stage-discharge relation defined by 83 discharge measurements made during 1965–67.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	27.11		28.97	29.46	30.10	30.28	30.94	28.63	28.09	26.40	26.34	26.63
2	.05		.91	28.15	.14	.12	.79	.48	.00	.37	.33	.56
3	.09		.98	.34	.24	.08	.71	.33	27.97	.36	.30	.42
4	.15		29.10	.57	.34	.31	.79	.29	.89	.32	.30	.66
5	.17		.17	.99	.52	.55	.82	.25	.82	.38	.30	27.75
6	27.20		29.10	29.32	30.60	30.90	30.79	28.29	27.72	26.37	26.30	28.27
7	.21		.09	.38	.50	.78	.72	.40	.50	.30	.32	.29
8	.26		.15	.29	.48	.96	.48	.42	.44	.32	.38	27.93
9	.30		.34	.28	.46	31.22	29.98	.44	.41	.37	.39	.66
10	.24		.54	.25	.77	30.83	.68	.43	.35	.38	.39	.59
11	27.29	27.92	29.71	29.25	31.06	30.31	29.41	28.64	27.43	26.36	26.38	28.12
12	.37	.71	.78	.28	.28	29.89	.35	.87	.57	.36	27.04	.68
13	.52	.32	.74	.22	.05	.44	.50	.89	.60	.33	.29	.12
14	.79	.10	.68	.21	30.78	.42	.69	29.18	.62	.46	.42	27.62
15	.82	.13	.57	.13	.56	.34	30.06	.48	.66	.62	.47	.58
16	27.65	27.34	29.10	29.27	30.85	28.81	30.26	29.20	27.60	26.65	27.40	27.51
17	.81	.31	28.48	.68	.95	.88	.38	28.77	.38	.66	.31	.47
18	.57	.81	.08	.84	.94	.84	.33	.42	.31	.70	.11	.54
19		.74	27.97	.90	.90	.72	.24	.30	.10	.69	26.99	.43
20		.53	.81	.91	.91	.72	.30	.28	.04	.63	27.57	.48
21		27.56	27.75	29.93	30.94	28.77	30.32	28.41	27.00	26.60	28.16	27.59
22		.70	.89	30.06	.87	.82	.08	29.25	26.95	.59	.36	.52
23		.59	28.34	.19	.82	.79	29.92	.57	.92	.54	.33	.59
24		.50	.97	.29	.93	.70	.76	30.70	.86	.49	27.73	.49
25		.52	.94	.27	.97	.72	.67	28.98	.80	.44	.32	.48
26		27.62	28.73	30.25	30.74	28.87	29.50	28.40	26.81	26.40	27.00	27.45
27		.77	.88	.11	.48	29.14	.38	.14	.79	.40	26.72	.63
28		28.14	29.46	.00	.90	.68	.26	.13	.69	.37	.67	.79
29		.54	.41	29.99	.87	30.35	.12	.15	.62	.36		.86
30		.91	30.10	.97	.81	.93	28.98	.14	.49	.40		.80
31		.94		30.01	.50		.84		.45	.39		.70
Mean			28.99	29.54	30.72	29.70	30.00	28.69	27.28	26.45	26.99	27.59
Max.			30.10	30.29	31.28	31.22	30.94	30.70	28.09	26.70	28.36	28.68
Min.			27.75	28.15	30.10	28.70	28.84	28.13	26.43	26.30	26.30	26.42

WATER YEAR 1972 : Max. 31.28 m. Min. 26.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	54		191	238	304	324	401	162	120	20	18	29
2	50		186	124	309	307	383	150	113	19	17	26
3	52		192	139	320	302	374	138	111	18	16	21
4	56		203	158	331	328	383	135	105	17	16	30
5	57		209	193	352	355	386	132	99	19	16	94
6	59		203	224	361	396	383	135	92	19	16	134
7	60		202	230	349	382	375	144	78	16	17	135
8	63		207	221	347	403	347	146	74	17	19	108
9	65		226	220	345	434	291	147	72	19	20	88
10	61		246	217	380	388	260	146	68	19	20	84
11	64	107	263	217	415	328	233	163	73	18	19	122
12	69	92	270	220	442	281	227	182	82	18	50	166
13	79	66	266	214	412	236	242	184	84	17	64	122
14	97	53	260	213	382	234	261	210	86	22	73	186
15	99	55	249	206	356	226	300	240	88	29	76	93
16	102	68	203	219	390	177	322	212	84	30	71	79
17	99	66	150	260	402	183	336	174	70	30	66	76
18	82	99	119	276	401	180	330	146	66	32	54	81
19		93	111	282	396	170	320	136	53	32	47	73
20		80	99	284	397	170	326	134	50	29	82	77
21		82	94	286	401	174	329	145	47	28	125	84
22		91	105	300	392	178	302	217	45	28	141	79
23		84	139	314	386	175	285	249	43	26	138	84
24		78	191	325	400	168	268	372	40	24	93	76
25		79	189	323	404	170	259	192	37	22	66	77
26		86	170	321	377	182	242	144	37	20	47	75
27		96	183	306	347	207	230	123	36	20	33	86
28		123	238	293	396	260	218	123	32	19	31	97
29		155	233	292	392	332	205	124	29	18		102
30		186	304	290	385	400	192	123	24	20		98
31		189		295	349		180		21	20		91
Total			5,901	7,700	11,620	8,050	9,190	5,028	2,059	685	1,451	2,663
Mean			197	248	375	268	296	168	66.4	22.1	51.8	85.9
Max.			304	325	442	434	401	372	120	32	141	166
Min.			94	124	304	168	180	123	21	16	16	21
Runoff - mcm.			509.846	665.280	1,003.968	695.520	794.016	434.419	177.898	59.184	125.366	230.083

WATER YEAR 1972 : Max. 442 Min. 16 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 12	06.00	31.31	445				

NAN RIVER BASIN

Nan River at Amphoe Bang Mun Nak, Phichit (N8)

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: Unstable, because of backwater effect, no shifting adjustment for flow computation.

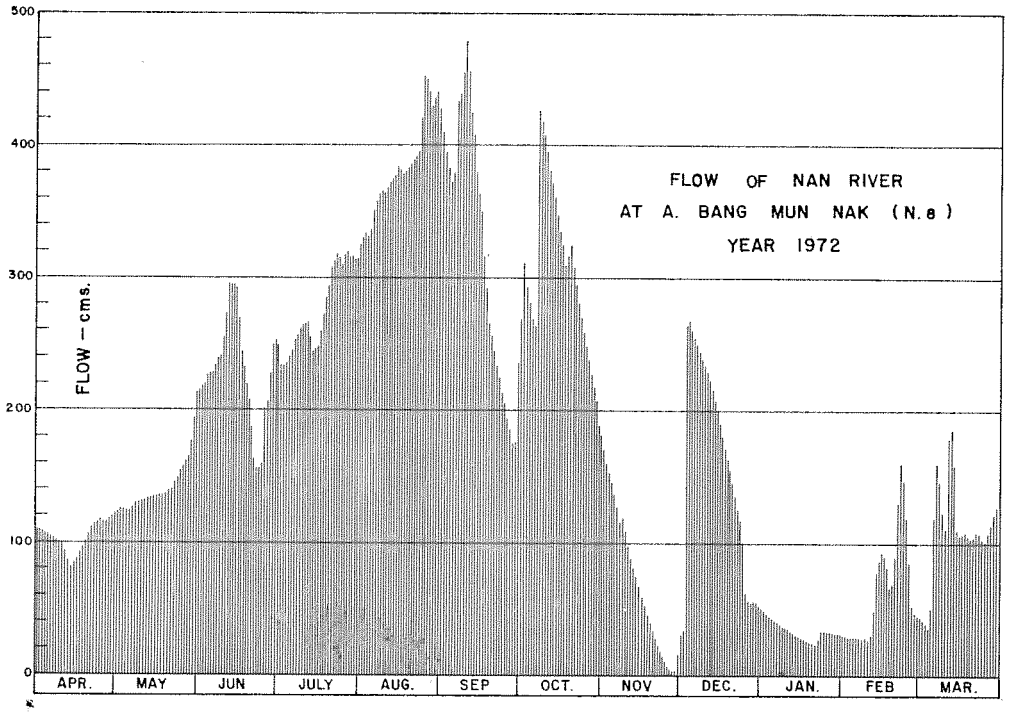
Overbank Flow Conditions: No overbank flow.

General Description: Records fair except those for periods on September 1 - December 25, which are poor. Stage-discharge relation defined by 32 discharge measurements made in 1973.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21.78	21.98	22.98	23.26	24.02	24.74	23.50	22.54	20.68	20.98	20.66	20.86
2	.77	22.00	23.00	.14	.05	.64	.86	.44	.71	.95	.65	.83
3	.76	21.99	.01	.13	.06	.54	.74	.38	23.45	.92	.65	.80
4	.75	.97	.07	.17	.05	.44	.64	.27	.46	.89	.63	.73
5	.72	.97	.09	.21	.14	.34	.54	.18	.38	.85	.63	21.07
6	21.70	21.98	23.09	23.27	24.26	24.60	23.44	22.08	23.34	20.84	20.63	22.05
7	.69	22.01	.14	.33	.30	.96	24.32	21.98	.28	.81	.62	.37
8	.68	.04	.20	.38	.33	.96	.85	.88	.24	.80	.60	.28
9	.68	.05	.22	.41	.35	25.15	.74	.91	.18	.77	.60	.04
10	.66	.06	.39	.44	.33	.27	.64	.75	.14	.75	.59	21.80
11	21.56	22.07	23.59	23.45	24.36	25.04	24.54	21.66	23.09	20.73	20.58	20.80
12	.46	.07	.72	.46	.40	24.84	.46	.56	.04	.70	.77	22.60
13	.44	.08	.72	.37	.43	.74	.36	.46	22.96	.68	21.29	.66
14	.46	.09	.71	.45	.44	.46	.25	.36	.87	.66	.50	.12
15	.50	.09	.66	.28	.50	.34	.14	.26	.76	.63	.57	21.77
16	21.54	22.10	23.42	23.30	24.48	24.24	24.04	21.16	22.66	20.62	21.59	21.74
17	.60	.10	.26	.39	.45	23.90	23.94	.06	.56	.60	.54	.76
18	.66	.11	.12	.54	.47	.55	.84	20.97	.47	.57	.39	.77
19	.70	.11	22.95	.68	.50	.44	.92	.86	.36	.56	.24	.74
20	.76	.14	.86	.75	.52	.34	.98	.76	.26	.54	.30	.71
21	21.81	22.15	22.67	23.84	24.55	23.24	23.82	20.66	20.16	20.52	21.92	21.74
22	.85	.19	.37	.89	.58	.14	.67	.56	.06	.53	22.26	.77
23	.88	.24	.32	.93	.60	.04	.58	.46	21.96	.71	.38	.77
24	.90	.28	.34	.90	.87	22.94	.48	.36	.86	.71	.22	.72
25	.88	.33	.45	.85	25.07	.84	.38	.26	.57	.71	21.78	.68
26	21.86	22.37	22.82	23.92	25.04	22.74	23.28	20.16	21.10	20.70	21.38	21.72
27	.89	.41	.88	.94	24.95	.64	.18	.06	.08	.70	.06	.77
28	.91	.46	23.07	.89	.87	.54	.08	19.96	.06	.69	20.93	.86
29	.94	.54	.30	.90	.94	.57	22.98	.99	.08	.69		.95
30	.96	.77	.33	.88	.96	23.21	.83	20.40	.04	.68		22.02
31		.94		.93	.84		.68		.01	.67		21.94
Mean	21.72	22.18	23.09	23.55	24.51	23.94	23.80	21.21	22.29	20.71	21.18	21.76
Max.	21.96	22.94	23.72	23.94	25.07	25.27	24.85	22.54	23.46	20.98	22.38	22.66
Min.	21.44	21.97	22.32	23.13	24.02	22.54	22.68	19.96	20.68	20.52	20.58	20.73

WATER YEAR 1972 : Max. 25.27 m. Min. 19.96 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	108	124	217	245	328	413	271	175	32	50	31	43
2	108	126	219	233	331	401	311	166	34	48	30	41
3	107	125	220	232	333	389	297	160	265	46	30	39
4	106	124	226	236	331	377	286	150	267	44	29	35
5	104	124	228	240	341	365	275	142	258	42	29	55
6	102	124	228	246	355	396	264	133	253	41	29	130
7	101	127	233	252	360	439	362	124	247	40	29	159
8	100	130	239	258	364	439	426	116	243	39	28	151
9	100	130	241	261	366	462	413	119	237	37	28	130
10	99	131	259	264	364	478	401	106	233	36	27	110
11	91	132	281	265	367	449	389	99	228	35	27	110
12	83	132	295	267	372	425	379	91	223	33	37	180
13	81	133	295	257	376	413	367	83	215	32	70	185
14	83	134	294	244	377	379	354	75	206	31	86	137
15	86	134	289	247	384	365	341	68	195	29	92	108
16	89	135	262	249	382	353	330	61	185	29	93	105
17	94	135	245	259	378	315	319	55	176	28	89	107
18	99	136	231	275	380	276	308	49	168	26	77	108
19	102	136	214	291	384	264	317	43	158	26	67	105
20	107	139	205	298	386	253	324	37	149	25	71	103
21	111	139	186	308	390	243	306	31	140	24	120	105
22	114	143	159	314	394	233	290	26	131	24	149	108
23	116	148	155	318	396	223	280	21	123	34	160	108
24	118	151	157	315	428	213	269	16	115	34	146	104
25	116	156	166	309	452	203	258	12	92	34	108	100
26	115	159	201	317	449	193	247	8.80	57	33	77	104
27	117	163	207	319	438	184	237	5.80	56	33	55	108
28	119	167	226	314	428	175	227	3.20	55	32	47	115
29	121	175	249	315	437	177	217	3.80	56	32		122
30	123	196	252	313	439	240	202	18	53	32		128
31		213		318	425		187		52	31		121
Total	3,120	4,421	6,879	8,579	11,935	9,735	9,454	2,197.60	4,902	1,060	1,861	3,364
Mean	104	143	229	277	385	324	305	73.2	158	34.2	66.5	108
Max.	123	213	295	319	452	478	426	175	267	50	160	185
Min.	81	124	155	232	328	175	187	3.20	32	24	27	35
Runoff - MCM.	269.568	381.974	594.346	741.226	1,031.184	841.104	816.826	189.873	423.533	91.584	160.790	290.650

WATER YEAR 1972 : Max. 478 Min. 3.20 Mean 185 Annual Runoff 5,832.657 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 10	01.00	25.33	486				

NAN RIVER BASIN

Nan River at Amphoe Taphan Hin, Phichit (N10)

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 for flow computation.

Overbank Flow Conditions: No overbank flow

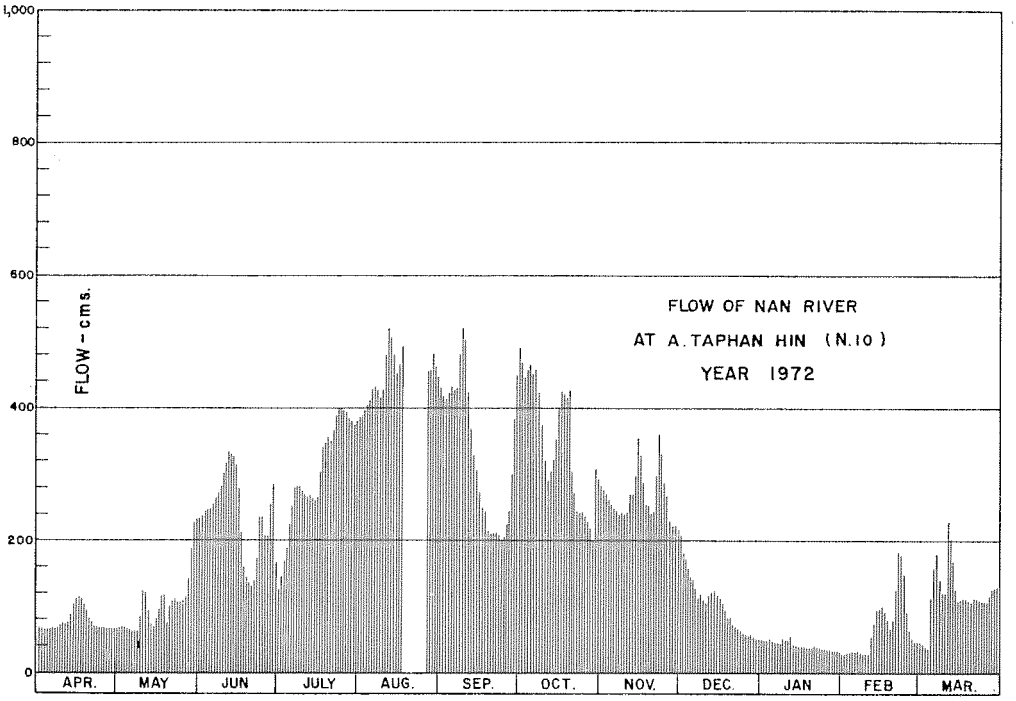
General Description: Records fair. Stage-discharge relation defined by 102 discharge measurements made in 1973.

Remarks: No records on period August 18 - 26, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.71	23.68	25.40	24.36	26.59	26.92	27.37	25.79	25.18	23.49	23.12	23.39
2	.69	.69	.41	.54	.65	.85	.16	.71	24.91	.45	.16	.35
3	.68	.73	.44	.81	.69	.81	.08	.66	.92	.44	.16	.30
4	.68	.70	.51	.90	.77	.89	.16	.61	.73	.44	.16	.25
5	.68	.68	.49	25.28	.86	.96	.19	.55	.61	.46	.16	.97
6	23.69	23.66	25.53	25.51	26.92	26.92	27.10	25.49	24.55	23.41	23.15	24.73
7	.69	.64	.58	.77	.95	.95	.16	.48	.37	.39	.14	.91
8	.69	.64	.63	.80	.89	27.26	.06	.44	.27	.41	.13	.69
9	.77	.64	.75	.79	.83	.61	26.70	.47	.33	.48	.13	.43
10	.79	.95	.92	.73	.97	.48	.28	.45	.22	.47	.13	.22
11	23.80	24.39	26.09	25.68	27.39	26.96	26.03	25.50	24.20	23.42	23.13	24.44
12	.77	.36	.21	.67	.60	.53	25.87	.70	.33	.38	.54	25.34
13	.98	.10	.18	.69	.45	.24	.94	.70	.37	.36	.83	.03
14	24.16	23.83	.15	.65	.29	.05	26.08	.92	.38	.35	24.05	24.57
15	.25	.71	.04	.62	.10	25.83	.47	26.34	.33	.32	.09	.20
16	24.29	23.87	25.76	25.70	27.23	25.64	26.74	26.18	24.29	23.33	24.11	24.24
17	.28	24.03	.19	26.02	.41	.52	.90	25.76	.20	.32	23.96	.24
18	.22	.31	24.80	.26		.48	.87	.57	.11	.30	.81	.25
19	.09	.35	.59	.33		.22	.82	.57	23.93	.29	.70	.21
20	23.90	23.81	.51	.37		.19	.91	.46	.86	.29	.89	.19
21	23.84	24.17	24.44	26.33		25.21	26.89	25.49	23.77	23.32	24.60	24.23
22	.75	.24	.53	.50		.21	.69	26.02	.71	.27	.94	.27
23	.73	.26	.82	.65		.16	.48	.41	.67	.26	.89	.24
24	.71	.20	25.40	.71		.11	.47	.17	.65	.25	.63	.21
25	.70	.19	.41	.70		.18	.48	25.80	.63	.24	.12	.21
26	23.72	24.22	25.16	26.66		25.45	26.42	25.66	23.58	23.23	23.72	24.19
27	.69	.29	.10	.64	27.12	.56	.35	.35	.55	.22	.52	.30
28	.68	.42	.55	.57	.18	.95	.26	.30	.59	.21	.42	.41
29	.68	25.05	.82	.56	.32	26.65	.12	.31	.51	.20		.42
30	.69	.32	.13	.51	.20	27.34	25.99	.29	.49	.19		.44
31		.39		.55	.05		.87		.48	.18		.42
Mean	23.83	24.11	25.57	25.93		26.75	26.63	25.67	24.41	23.33	23.69	24.26
Max.	24.29	25.39	26.09	26.71		27.61	27.37	26.41	25.18	23.49	24.94	25.34
Min.	23.69	23.64	24.44	24.36		25.11	26.12	25.29	23.48	23.18	23.12	23.25

WATER YEAR 1972 : Max. 27.61 m. Min. 23.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	69	67	234	122	384	427	488	281	209	53	29	46
2	67	67	235	140	391	417	458	271	179	50	32	43
3	67	70	239	168	397	412	447	265	180	50	32	40
4	67	68	247	178	407	423	458	259	158	50	32	37
5	67	67	245	220	419	432	463	252	147	51	32	87
6	67	65	250	247	427	427	450	245	141	48	31	158
7	67	64	256	278	430	430	458	244	123	46	32	179
8	67	64	262	282	423	472	445	239	113	48	30	155
9	73	64	276	281	415	521	398	242	119	53	30	129
10	74	87	298	274	433	503	343	240	109	52	30	109
11	75	125	319	268	491	432	311	246	107	48	30	130
12	73	122	334	266	520	376	291	270	119	56	57	227
13	85	99	330	269	499	338	301	270	123	44	77	192
14	104	77	326	264	477	313	317	298	124	43	95	143
15	111	69	312	260	450	286	368	351	119	41	98	107
16	115	81	277	270	468	263	403	330	115	42	100	111
17	114	93	210	310	493	248	424	277	107	41	88	111
18	109	117	167	341		244	420	254	100	40	76	111
19	98	121	145	350		213	414	254	85	39	68	108
20	83	76	137	355		210	425	241	88	39	81	106
21	78	105	130	350		212	394	245	73	41	146	110
22	71	111	139	372		212	269	310	69	38	182	113
23	70	112	169	391		207	244	360	66	38	177	111
24	69	107	234	399		201	242	329	64	37	149	108
25	68	106	235	398		209	244	282	63	36	101	108
26	69	109	207	393		240	236	265	60	35	69	106
27	67	115	200	390	453	252	228	228	57	35	55	116
28	67	128	252	381	461	302	218	222	60	35	48	127
29	67	194	285	380	481	391	202	223	55	34		128
30	67	224	203	373	464	484	307	221	53	33		130
31		232		378	443		291		53	33		128
Total	2,345	5,206	7,153	9,348		10,097	10,857	7,914	3,238	1,329	2,005	3,614
Mean	78.1	103	238	301		336	350	264	104	42.8	71.6	116
Max.	115	232	334	399		521	488	360	209	53	182	227
Min.	67	64	130	122		201	202	221	53	33	29	37
Runoff - mcm.	202.608	276.998	618.019	807.667		872.380	938.044	683.769	279.763	114.825	173.232	312.249

WATER YEAR 1972 : Max. 521 Min. 29 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.9	18.00	27.65	527				

NAN RIVER BASIN

Nan River at Ban Hat Phai, Uttaradit (N12A)

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: 16,718 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: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

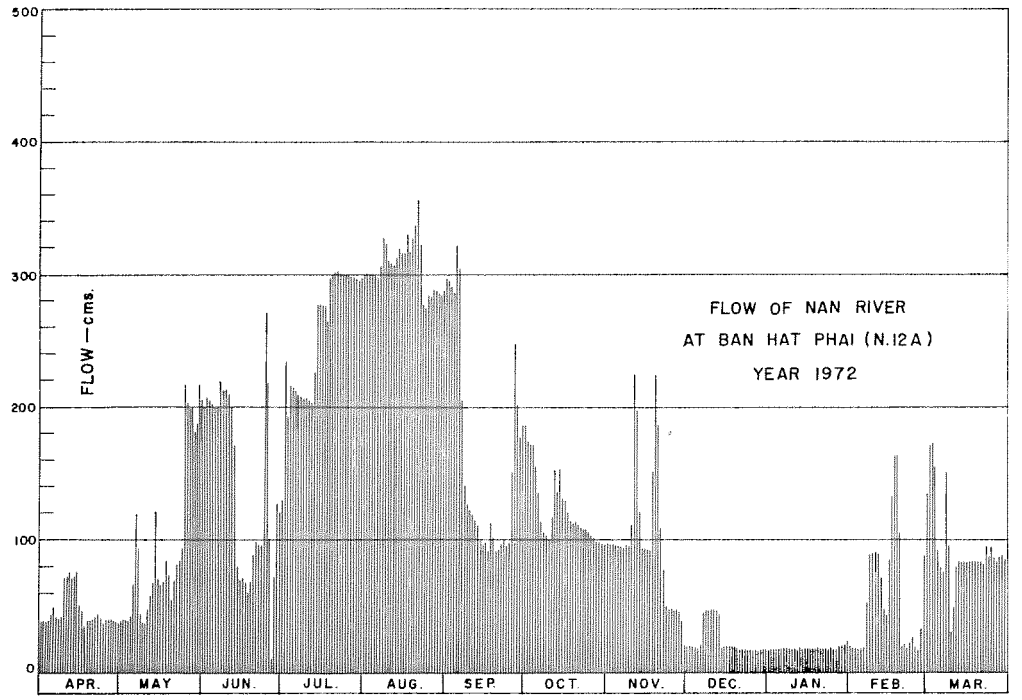
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 250 discharge measurements made in 1972. Flow regulated by Sirikit Dam since June 5, 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	70.26	70.27	71.75	71.33	72.46	72.44	71.63	70.89	70.00	69.97	69.97	71.42
2	.26	.27	.81	72.00	.46	.41	.54	.88	.00	.97	.97	.55
3	.27	.27	.78	71.70	.46	.39	.52	.88	69.99	.97	.97	.55
4	.32	.27	.76	.87	.46	.43	.53	.88	.99	.97	.97	.14
5	.37	.42	.75	.86	.45	.61	.33	.87	.98	.97	.97	70.74
6	70.30	70.93	71.75	71.82	72.45	72.48	71.11	70.87	70.05	69.97	69.97	70.69
7	.28	71.27	.89	.81	.51	71.34	.00	.87	.37	.97	70.47	.68
8	.41	70.55	.84	.80	.77	.24	70.98	.88	.38	.97	.81	71.36
9	.64	.25	.86	.80	.60	.13	.94	.88	.38	.97	.82	70.58
10	.64	.25	.84	.79	.52	.13	.94	71.06	.38	.97	.82	.16
11	70.68	70.37	71.81	71.78	72.51	71.08	71.12	71.92	70.38	69.97	70.82	70.67
12	.62	.56	.68	.78	.51	.04	.38	.72	.38	.97	.79	.76
13	.66	.61	70.83	72.00	.56	.00	.25	70.85	.30	.97	.49	.75
14	.68	71.29	.61	.31	.59	70.84	.39	.85	69.98	.97	.35	.75
15	.38	70.57	.61	.30	.56	.90	.20	.85	.98	.97	.34	.75
16	70.36	70.59	70.62	72.30	72.57	70.89	71.19	70.84	69.98	69.97	70.98	70.75
17	.21	.61	.60	.29	.66	.83	.09	.84	.98	.97	71.48	.75
18	.30	.75	.51	.21	.57	71.04	.05	71.46	.98	.97	.48	.75
19	.27	.64	.70	.46	.67	70.85	.04	.92	.98	.97	.48	.75
20	.27	.44	.87	.47	.71	.83	.05	.26	.97	.96	70.91	.75
21	70.30	70.66	70.90	72.47	72.82	70.86	71.02	70.84	69.97	69.96	69.98	70.74
22	.33	.75	.87	.47	.70	.90	.00	.68	.97	.96	70.01	.74
23	.29	.77	.88	.46	.79	.93	70.99	.39	.97	.96	69.98	.87
24	.25	.88	72.09	.46	.28	.89	71.00	.39	.97	.96	70.10	.78
25	.27	71.87	.25	.45	.35	.91	70.95	.39	.97	.96	.11	.85
26	70.38	71.75	70.50	72.44	72.35	71.54	70.92	70.38	69.97	69.96	69.95	70.77
27	.27	.75	69.81	.44	.38	72.09	.91	.38	.97	.97	.95	.75
28	.27	.75	71.09	.44	.37	71.63	.90	.38	.97	70.00	70.25	.80
29	.26	.61	.17	.43	.36	.58	.89	.29	.97	.01		.80
30	.25	.88	.10	.43	.35	.65	.89	.00	.97	.01		.77
31		.82		.44	.39		.89		.97	.07		.76
Mean	70.37	70.86	71.30	72.10	72.50	71.40	71.12	70.88	70.08	70.00	70.43	70.84
Max.	70.68	71.88	72.25	72.47	72.82	72.61	71.63	71.92	70.38	70.07	71.48	71.55
Min.	70.21	70.25	69.81	71.33	72.28	70.83	70.89	70.00	69.97	69.96	69.95	70.16

WATER YEAR 1972 : Max. 72.82 m. Min. 69.81 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	38	39	199	146	300	297	184	97	20	18	18	157
2	38	39	207	234	300	292	172	96	20	18	18	173
3	39	39	203	193	300	289	170	96	19	18	18	173
4	43	39	201	216	300	295	171	96	19	18	18	123
5	47	51	199	214	298	322	146	95	19	18	18	82
6	41	101	199	209	298	303	120	95	23	18	18	77
7	39	138	219	207	307	147	108	95	47	18	55	76
8	42	63	212	206	347	135	106	96	47	18	89	149
9	72	37	214	206	321	122	102	96	47	18	90	66
10	72	37	212	205	309	122	102	114	47	18	90	30
11	76	47	207	203	307	117	121	223	47	18	90	75
12	70	64	190	203	307	112	152	196	47	18	87	84
13	74	69	91	234	315	108	136	93	41	18	57	83
14	76	141	69	277	319	92	153	93	19	18	45	83
15	47	65	69	276	315	98	130	93	19	18	44	83
16	46	67	70	276	316	97	129	92	19	18	106	83
17	34	69	68	275	330	91	118	92	19	18	164	83
18	41	83	59	163	316	112	113	162	19	18	164	83
19	39	72	78	300	331	93	112	223	19	18	164	83
20	39	53	95	301	338	91	113	137	18	18	99	83
21	41	74	98	301	355	94	110	92	18	18	19	82
22	43	83	95	301	336	98	108	76	18	18	21	82
23	40	85	96	300	275	101	107	48	18	18	19	95
24	37	96	247	300	273	97	108	48	18	18	26	86
25	39	216	269	298	283	99	103	48	18	18	27	93
26	39	199	58	297	283	172	100	47	18	18	17	85
27	39	199	8.60	297	288	247	99	47	18	18	17	83
28	39	199	118	297	286	184	98	47	18	20	37	88
29	38	181	127	295	285	177	97	39	18	21		88
30	37	217	119	295	283	186	97	20	18	21		85
31		209		297	288		97		18	24		84
Total	1,405	3,071	4,296.60	7,922	9,509	4,790	3,782	2,892	773	572	1,635	2,880
Mean	46.8	99.1	143	255	307	160	122	96.4	24.9	18.4	58.4	92.9
Max.	76	217	269	301	355	322	184	223	47	24	164	173
Min.	34	37	8.60	146	273	91	97	20	18	18	17	30
Runoff - mcm.	121.392	265.334	371.226	684.461	821.578	413.856	362.765	249.869	66.787	49.421	141.264	248.832

WATER YEAR 1972 : Max. 355 Min. 8.60 Mean 119 Annual Runoff 3,760.785 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	21.00	72.90	368				

NAN RIVER BASIN

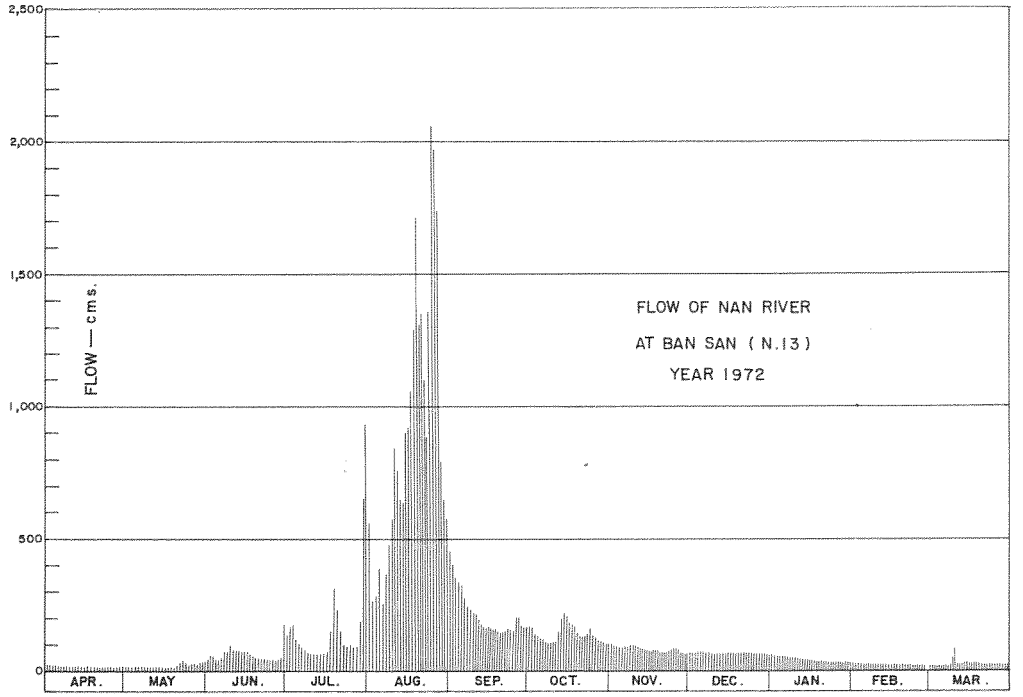
Nan River at Ban San, Nan (N13)

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:	2-time daily readings 06.00 and 18.00 hours on April - May, November - March. Recording on June - October 1972.
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:	Stable, no shifting adjustment for flow computation.
Overbank Flow Conditions:	Including overbank flow.
General Description:	Records fair except those for periods on August 1-7 and December 1-3, which are poor. Stage-discharge relation defined by 1,442 discharge measurements made during 1959-1966.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	176.97	176.88	177.11	177.88	179.80	179.59	178.10	177.68		177.36	177.04	176.97
2	.96	.87	.27	178.04	178.85	.30	.09	.68		.34	.04	.97
3	.94	.87	.27	.15	.51	.08	177.98	.65		.33	.04	.96
4	.94	.87	.19	177.89	179.23	.01	.92	.63	177.43	.32	.03	.95
5	.93	.86	.11	.77	178.65	178.97	.86	.62	.45	.31	.03	.95
6	176.93	176.86	177.14	177.67	178.57	178.72	177.82	177.61	177.45	177.31	177.02	176.95
7	.92	.86	.45	.62	179.06	.60	.78	.60	.45	.30	.02	.95
8	.92	.85	.49	.54	179.17	.55	.75	.62	.44	.27	.01	.95
9	.92	.85	.47	.48	.63	.53	.73	.72	.42	.25	.01	.95
10	.92	.85	.64	.37	.96	.46	.71	.69	.41	.23	.01	177.55
11	176.91	176.85	177.51	177.36	181.13	178.40	177.74	177.63	177.40	177.22	177.01	177.02
12	.91	.84	.51	.35	180.82	.22	.92	.58	.36	.21	.00	176.99
13	.91	.84	.53	.32	.39	.12	178.20	.53	.37	.20	.00	177.06
14	.91	.83	.43	.33	.31	.07	.44	.50	.38	.18	176.99	.09
15	.90	.83	.46	.37	181.33	.07	.41	.49	.39	.17	.99	.09
16	176.90	176.82	177.46	177.40	181.41	178.10	178.24	177.49	177.41	177.16	176.99	177.07
17	.90	.81	.36	.48	.91	.05	.19	.48	.41	.14	.99	.02
18	.90	.80	.30	178.04	182.63	.07	.16	.50	.43	.13	.99	.05
19	.90	.87	.23	.92	183.85	.01	177.98	.50	.42	.12	.99	.08
20	.90	.81	.17	.57	182.68	177.97	.93	.44	.42	.11	.99	.00
21	176.89	176.94	177.17	178.12	182.82	177.97	177.87	177.42	177.42	177.10	176.99	177.00
22	.89	177.01	.20	177.87	.31	178.02	.88	.43	.42	.09	.98	.00
23	.89	.12	.19	.66	181.27	.07	.88	.45	.41	.08	.98	.01
24	.89	.02	.18	.64	182.87	.00	178.06	.53	.41	.07	.98	.01
25	.88	176.93	.15	.70	184.72	177.96	177.94	.54	.41	.06	.97	.01
26	176.88	176.94	177.13	177.66	184.49	178.31	177.84	177.61	177.41	177.06	176.97	177.01
27	.88	.99	.11	.61	183.77	.32	.80	.52	.41	.05	.97	.00
28	.88	.91	.13	.65	181.33	.13	.76	.44	.40	.05	.97	.00
29	.87	.99	.15	178.14	*180.64	.09	.72	.40	.40	.05		.00
30	.87	177.06	178.16	180.94	* .21	.10	.70	.37	.39	.05		.00
31		.09		181.42	*179.99		.69		.37	.04		.00
Mean	176.91	176.90	177.32	177.97	181.04	178.36	177.94	177.54		177.17	177.00	177.02
Max.	176.97	177.12	178.16	181.42	184.72	179.59	178.44	177.72	177.45	177.36	177.04	177.55
Min.	176.87	176.80	177.11	177.32	178.51	177.96	177.69	177.37	177.36	177.04	176.97	176.95

WATER YEAR 1972 : Max. 184.72 m. Min. 176.80 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	27	18	41	133	510	462	168	101	70*	66	34	27
2	26	17	57	158	300	398	166	101	70*	64	34	27
3	24	17	57	176	234	350	149	97	72*	63	34	26
4	24	17	49	134	383	334	139	94	73	62	33	25
5	23	16	41	115	260	325	130	93	75	61	33	25
6	23	16	44	100	245	274	123	91	75	61	32	25
7	22	16	75	93	345	250	117	90	75	60	32	25
8	22	15	79	84	369	241	112	93	74	57	31	25
9	22	15	77	78	471	237	109	107	72	55	31	25
10	22	15	96	67	548	226	106	103	71	53	31	85
11	21	15	81	66	844	216	110	94	70	52	31	32
12	21	14	81	65	763	187	139	88	66	51	30	29
13	21	14	83	62	652	171	184	83	67	50	30	36
14	21	13	73	63	632	163	222	80	68	48	29	39
15	20	13	76	67	898	163	218	79	69	47	29	39
16	20	12	76	70	921	168	190	79	71	46	29	37
17	20	11	66	78	1,061	160	182	78	71	44	29	32
18	20	10	60	158	1,284	163	178	80	73	43	29	35
19	20	17	53	314	1,714	154	149	80	72	42	29	38
20	20	11	47	245	1,301	147	141	74	72	41	29	30
21	19	24	47	171	1,349	147	131	72	72	40	29	30
22	19	31	50	131	1,179	155	133	73	72	39	28	30
23	19	42	49	98	882	163	133	75	71	38	28	31
24	19	32	48	96	1,366	152	162	83	71	37	28	31
25	18	23	45	104	2,056	146	142	84	71	36	27	31
26	18	24	43	98	1,964	202	126	91	71	36	27	31
27	18	29	41	91	1,685	203	120	82	71	35	27	30
28	18	21	43	97	898	173	114	74	70	35	27	30
29	17	29	45	174	716	166	107	70	70	35		30
30	17	36	178	794	608	168	104	67	69	35		30
31		39		924	556		103		67	34		30
Total	621	622	1,901	5,104	26,994	6,464	4,407	2,556	2,202	1,466	840	996
Mean	20.7	20.1	63.4	165	871	215	142	85.2	71.0	47.3	30.0	32.1
Max.	27	42	178	924	2,056	462	222	107	75	66	34	85
Min.	17	10	41	62	234	146	103	67	66	34	27	25
Runoff - mcm.	53.654	53.741	164.246	440.986	2,332.282	558.490	380.765	220.838	190.253	126.662	72.576	86.054

WATER YEAR 1972 : Max. 2,056 Min. 10 Mean 148 Annual Runoff 4,680.547 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.26	09.00	185.61	2,450				

NAN RIVER BASIN

Nan River at Wat Luang Pho Khaeo, Nakhon Sawan (N14A)

Location: Lat. 15°-53'-56" N., Long. 100°-18'-34" E., on right bank infront of Wat Luang Pho Khaeo about 1 kilometer upstream from N14, Amphoe Chum Saeng, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,182 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 19.00 m. (M.S.L.)

Bench Mark: B.M. - N14A

Location: Infront of Automatic building.
Elevation: + 27.842 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: 1973 to date.
Rated by Float: -
Rated by Current Meter: 1973 to date.

Stability of Channel Regimes: Unstable because of backwater effect, no shifting adjustment for flow computation.

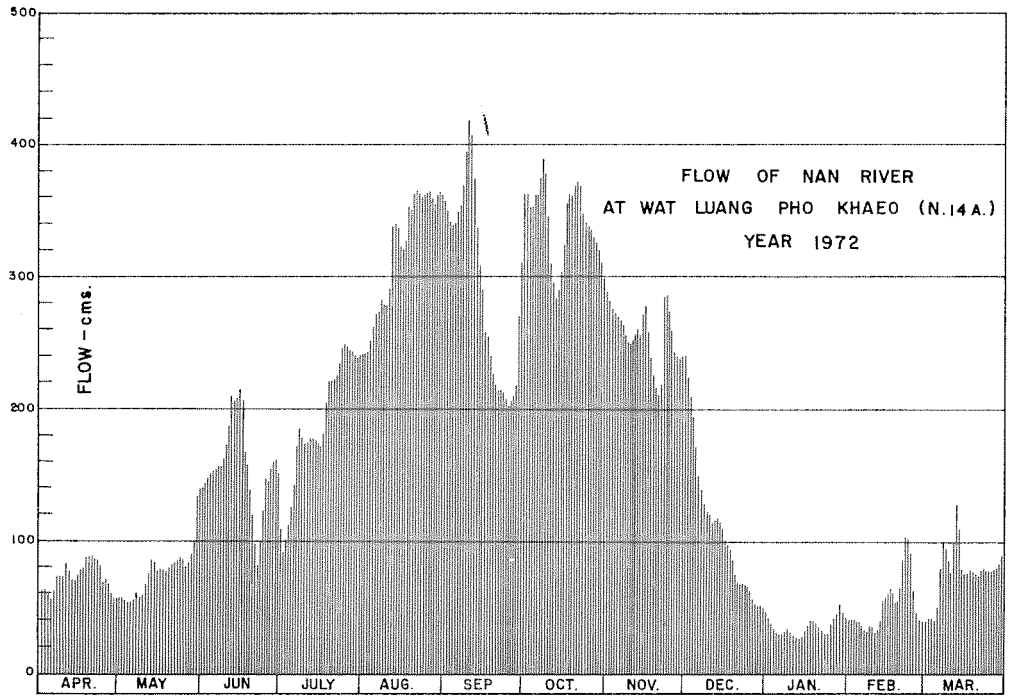
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 31 discharge measurements made in 1973.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.07	19.99	21.07	20.70	22.11	23.15	23.22	22.56	22.09	19.80	19.74	19.70
2	19.99	.97	.15	.48	.16	.05	.21	.47	21.90	.75	.75	.74
3	20.06	.95	.15	.65	.17	.00	.12	.44	.73	.63	.73	.75
4	19.97	.95	.20	.81	.23	.00	.13	.39	.56	.58	.71	.74
5	.97	.94	.21	.93	.27	.06	.21	.37	.28	.54	.71	.74
6	20.11	19.96	21.21	21.21	22.40	23.12	23.21	22.36	21.16	19.54	19.69	20.21
7	.20	20.04	.23	.48	.40	.16	.34	.28	.02	.57	.60	.57
8	.21	19.98	.23	.53	.48	.28	.45	.23	20.91	.58	.59	.59
9	.20	.98	.30	.46	.45	.56	.35	.18	.84	.61	.65	.48
10	.28	20.04	.47	.42	.46	.72	.05	.18	.83	.59	.65	.35
11	20.35	20.18	21.59	21.44	22.64	23.61	22.74	22.22	20.76	19.55	19.57	20.25
12	.22	.31	.78	.46	.98	.28	.59	.28	.77	.50	.60	.66
13	.16	.40	.74	.45	23.01	22.98	.50	.28	.80	.50	.80	.90
14	.16	.36	.78	.44	22.98	.76	.55	.23	.76	.48	.96	.56
15	.23	.28	.83	.43	.85	.56	.67	.44	.71	.52	.98	.26
16	20.29	20.30	21.77	21.40	22.84	22.38	22.95	22.44	20.60	19.64	20.06	20.23
17	.32	.28	.59	.47	.99	.23	23.17	.24	.55	.69	.08	.26
18	.41	.29	.35	.78	23.13	.10	.21	.00	.48	.74	.04	.29
19	.29	.25	.02	.89	.10	21.99	.21	21.90	.36	.72	19.95	.27
20	.29	.34	20.79	.90	.22	.87	.26	.80	.22	.67	.98	.24
21	20.29	20.36	20.53	21.90	23.24	21.83	23.30	21.78	20.14	19.63	20.13	20.23
22	.26	.38	.35	.93	.22	.83	.26	.88	.14	.61	.49	.28
23	.24	.41	.60	22.04	.19	.82	.16	22.50	.14	.56	.62	.30
24	.17	.43	.86	.14	.21	.74	.03	.51	.13	.55	.60	.29
25	.15	.34	21.13	.17	.23	.70	.00	.36	.11	.64	.33	.28
26	20.17	20.35	21.11	22.15	23.24	21.76	22.97	22.20	20.04	19.75	20.04	20.27
27	.12	.41	.22	.12	.18	.80	.92	.08	19.93	.76	19.84	.30
28	.00	.52	.27	.10	.15	.91	.89	.07	.91	.82	.74	.32
29	19.97	.70	.30	.07	.23	22.44	.83	.06	.90	.91	-	.36
30	.98	.98	.18	.06	.23	.91	.74	.08	.91	.82	-	.45
31	-	21.05	-	.10	.20	-	.63	-	.89	.75	-	.43
Mean	20.17	20.28	21.23	21.58	22.84	22.59	23.03	22.23	20.63	19.64	19.91	20.26
Max.	20.41	21.05	21.83	22.17	23.24	23.72	23.45	22.56	22.09	19.91	20.62	20.90
Min.	19.97	19.94	20.35	20.48	22.11	21.70	22.50	21.78	19.89	19.48	19.57	19.70

WATER YEAR 1972 : Max. 23.72 m. Min. 19.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	63	57	142	109	243	355	363	291	241	45	41	39
2	58	56	149	92	248	344	362	281	222	42	42	41
3	62	54	149	105	249	339	352	277	205	35	41	42
4	56	54	154	119	255	339	353	272	188	32	40	41
5	56	54	155	130	259	346	362	270	161	30	40	41
6	66	55	155	155	273	352	362	269	150	30	38	73
7	72	61	157	180	273	357	376	260	138	31	33	99
8	73	57	157	185	282	370	388	255	128	32	32	100
9	72	57	163	178	378	401	377	250	122	34	36	92
10	78	61	178	174	280	418	344	250	121	32	36	82
11	82	71	191	176	299	406	310	254	114	30	31	75
12	73	80	210	178	337	370	294	260	115	28	33	106
13	69	86	206	177	340	337	284	260	118	28	45	127
14	69	83	210	176	337	313	289	255	114	27	55	98
15	74	78	215	175	322	291	302	277	110	29	57	76
16	78	79	209	172	321	260	333	277	101	35	62	74
17	80	78	191	178	338	255	358	256	97	38	64	76
18	87	78	167	210	353	242	362	232	92	41	61	78
19	78	75	138	221	350	231	362	222	83	40	54	77
20	78	82	117	222	363	219	368	212	73	37	57	75
21	78	83	95	222	365	215	372	210	68	35	67	74
22	76	85	82	225	363	215	368	220	68	34	92	78
23	75	87	101	236	360	214	357	284	68	31	103	79
24	70	88	123	246	362	206	342	285	67	30	101	78
25	68	82	148	249	364	202	339	269	66	35	81	78
26	70	82	146	247	365	208	336	252	61	42	61	77
27	66	87	156	244	359	212	330	240	53	42	47	79
28	58	95	160	242	355	223	327	239	52	46	41	80
29	56	109	163	239	364	277	320	238	51	52	–	83
30	57	134	152	238	364	329	310	240	52	46	–	89
31	–	140	–	242	361	–	298	–	50	42	–	88
Total	2,098	2,428	4,739	5,942	9,982	8,846	10,600	7.657	3,349	1,111	1,491	2,395
Mean	70	78	158	192	322	295	342	255	108	36	53	77
Max.	87	140	215	249	365	418	388	291	241	52	103	127
Min.	56	54	82	92	243	202	284	210	50	27	31	39
Runoff - MCM.	181.267	209.779	409.450	513.389	862.445	764.294	915.840	661.565	289.354	95.990	128.822	206.928

WATER YEAR 1972 : Max. 418 Min. 27 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

NAN RIVER BASIN

Nan River at Ban Mon, Nan (N17)

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.

Overbank Flow Conditions: No overbank flow.

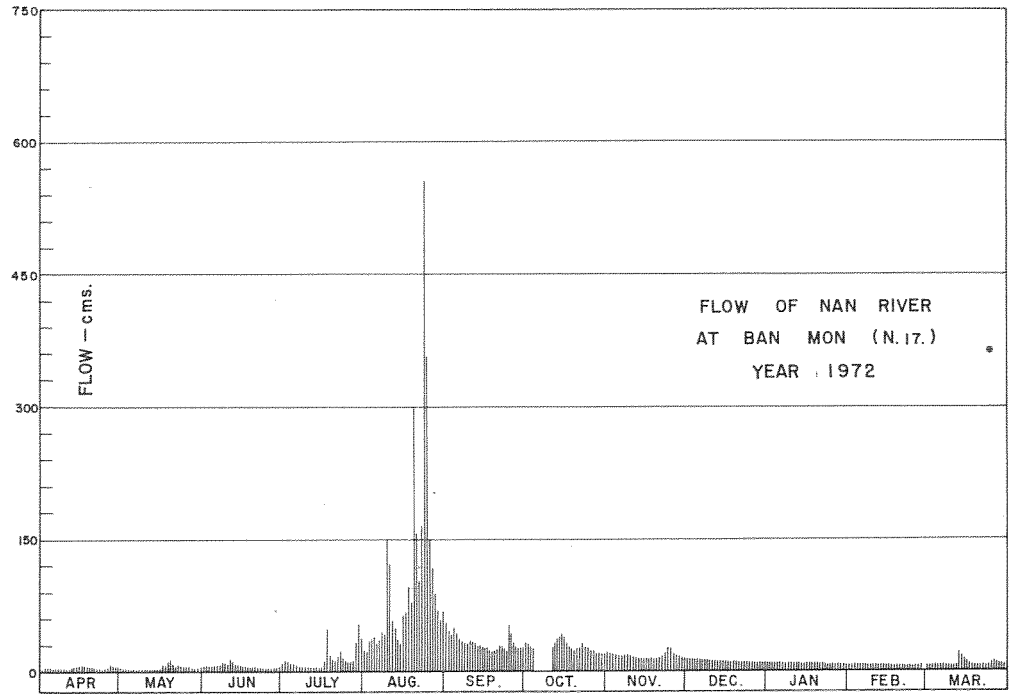
General Description: Records fair. Stage-discharge relation defined by 535 discharge measurements made during 1969-1971, 1973.

Remarks: No records on period October 5-11, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.37	0.43	0.58	0.65	1.03	1.63	1.23	0.98	0.82	0.68	0.61	0.55
2	.42	.36	.55	.73	.00	.50	.23	.96	.81	.68	.61	.55
3	.44	.35	.55	.68	.30	.41	.13	.94	.80	.68	.60	.55
4	.43	.35	.52	.63	.40	.53	.08	.92	.79	.68	.60	.55
5	.40	.35	.52	.64	.30	.43		.91	.79	.67	.60	.56
6	0.41	0.34	0.53	0.58	1.20	1.31		0.89	0.78	0.67	0.60	0.56
7	.43	.34	.57	.54	.35	.25		.88	.78	.67	.59	.58
8	.40	.33	.66	.50	.47	.23		.95	.77	.67	.59	1.02
9	.39	.33	.65	.48	.40	.22		.95	.77	.66	.59	0.93
10	.38	.33	.61	.48	2.70	.27		.88	.76	.66	.59	.76
11	0.40	0.33	0.83	0.46	2.07	1.23		0.86	0.76	0.66	0.58	0.67
12	.44	.32	.73	.45	1.60	.18	1.14	.84	.75	.66	.58	.60
13	.47	.32	.57	.45	.50	.15	.33	.83	.75	.65	.58	.60
14	.50	.31	.60	.48	.00	.18	.38	.82	.75	.65	.58	.60
15	.52	.30	.56	.48	.73	.13	.43	.81	.74	.65	.58	.59
16	0.54	0.29	0.55	0.47	1.81	1.12	1.36	0.80	0.74	0.65	0.57	0.59
17	.54	.58	.48	.73	.83	.13	.22	.83	.74	.64	.57	.59
18	.50	.56	.48	1.52	2.13	.04	.13	.82	.73	.64	.57	.58
19	.50	.74	.46	0.94	1.94	.03	.07	.81	.73	.64	.57	.58
20	.47	.77	.46	.82	3.88	.05	.05	.81	.73	.64	.57	.58
21	0.40	0.53	0.47	0.75	2.60	1.12	1.13	0.87	0.72	0.63	0.56	0.57
22	.38	.46	.47	.77	.20	.16	.09	.93	.72	.63	.56	.57
23	.36	.57	.46	1.05	.95	.13	.23	.97	.72	.63	.56	.57
24	.35	.53	.44	0.83	5.35	.03	.13	1.04	.71	.63	.56	.60
25	.35	.46	.41	.75	3.43	.57	.08	.15	.71	.62	.56	.65
26	0.41	0.45	0.40	0.70	2.65	1.36	1.05	0.95	0.70	0.62	0.55	0.72
27	.54	.47	.43	.68	.23	.15	.05	.91	.70	.62	.55	.69
28	.48	.45	.43	.69	1.99	.13	.00	.88	.69	.62	.55	.65
29	.45	.44	.43	1.25	.78	.10	.00	.86	.69	.61		.60
30	.43	.43	.45	.60	.67	.13	0.97	.83	.69	.61		.58
31		.49		.38	.81		.97		.69	.61		.58
Mean	0.43	0.42	0.52	0.74	2.00	1.23		0.89	0.74	0.64	0.57	0.62
Max.	0.54	0.77	0.83	1.60	5.35	1.63		1.15	0.82	0.68	0.61	1.02
Min.	0.35	0.29	0.40	0.45	1.00	1.03		0.81	0.69	0.61	0.55	0.55

WATER YEAR 1972 : Max. 5.35 m. Min. 0.29 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.70	3.75	7.50	9.50	23	55	32	21	15	10	8.30	6.75
2	3.50	2.60	6.75	12	21	46	32	20	14	10	8.30	6.75
3	4.00	2.50	6.75	10	35	41	27	19	14	10	8.00	6.75
4	3.75	2.50	6.00	8.90	40	48	25	18	14	10	8.00	6.75
5	3.00	2.50	6.00	9.20	35	42		18	14	10	8.00	7.00
6	3.25	2.40	6.25	7.50	30	36		17	13	10	8.00	7.00
7	3.75	2.40	7.25	6.50	38	33		17	13	10	7.75	7.50
8	3.00	2.30	10	5.50	45	32		19	13	10	7.75	22
9	2.90	2.30	9.50	5.00	40	31		19	13	10	7.75	19
10	2.80	2.30	8.30	5.00	150	34		17	13	10	7.75	13
11	3.00	2.30	15	4.50	88	32		16	13	10	7.50	10
12	4.00	2.20	12	4.25	53	30	28	15	12	10	7.50	8.00
13	4.75	2.20	7.25	4.25	46	28	37	15	12	9.50	7.50	8.00
14	5.50	2.10	8.00	5.00	26	30	39	15	12	9.50	7.50	8.00
15	6.00	2.00	7.00	5.00	62	27	42	14	12	9.50	7.50	7.75
16	6.50	1.90	6.75	4.75	67	27	38	14	12	9.50	7.25	7.75
17	6.50	7.50	5.00	12	69	27	31	15	12	9.20	7.25	7.75
18	5.50	7.00	5.00	48	94	23	27	15	12	9.20	7.25	7.50
19	5.50	12	4.50	19	78	23	25	14	12	9.20	7.25	7.50
20	4.75	13	4.50	15	300	24	24	14	12	9.20	7.25	7.50
21	3.00	6.25	4.75	12	139	27	27	16	12	8.90	7.00	7.25
22	2.80	4.50	4.75	13	100	29	25	19	12	8.90	7.00	7.25
23	2.60	7.25	4.50	24	177	27	32	20	12	8.90	7.00	7.25
24	2.50	6.25	4.00	15	565	23	27	28	11	8.90	7.00	8.00
25	2.50	4.50	3.25	12	234	51	25	28	11	8.60	7.00	9.50
26	3.25	4.25	3.00	11	144	38	24	19	11	8.60	6.75	12
27	6.50	4.75	3.75	10	111	28	24	18	11	8.60	6.75	11
28	5.00	4.25	3.75	11	82	27	21	17	11	8.60	6.75	9.50
29	4.25	4.00	3.75	33	65	26	21	16	11	8.30		8.00
30	3.75	3.75	4.25	53	57	27	20	15	11	8.30		7.50
31		5.25		39	67		20		11	8.30		7.50
Total	120.80	130.00	189.05	433.85	3.081	972		523	381	289.70	208.60	277.00
Mean	4.02	4.19	6.30	14.0	99.4	32.4		17.4	12.3	9.34	7.45	8.93
Max.	6.50	13	15	53	565	55		28	15	10	8.30	22
Min.	2.50	1.90	3.00	4.25	21	23		14	11	8.30	6.75	6.75
Runoff - mcm.	10.437	11.232	16.334	37.485	266.198	83.981		45.187	32.918	25.030	18.023	23.933

WATER YEAR 1972 : Max. 565 Min. 1.90 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

NAN RIVER BASIN

Khwae Noi at Ban Yang, Phitsanulok (N22)

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. N22

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.

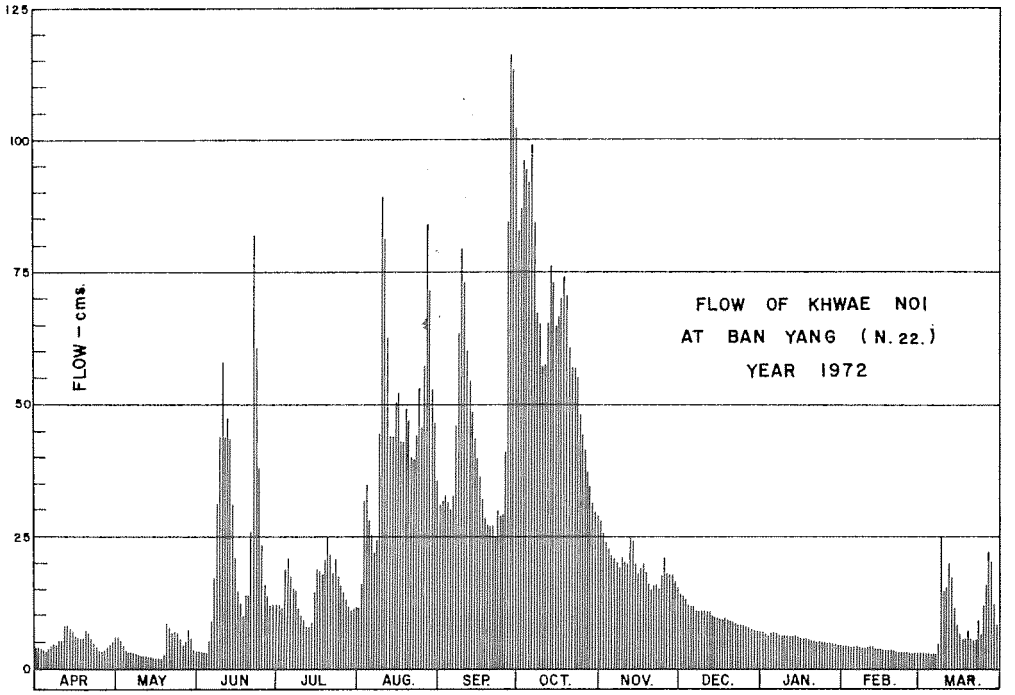
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 193 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43.70	43.81	43.66	44.06	44.07	44.60	45.64	44.49	44.10	43.80	43.65	43.56
2	.70	.81	.69	.05	.17	.61	.75	.44	.07	.79	.64	.56
3	.69	.74	.68	.01	.63	.65	.85	.40	.04	.75	.64	.56
4	.69	.70	.71	.27	.68	.61	.80	.36	.02	.79	.64	.56
5	.71	.67	.87	.34	.50	.57	.78	.33	.01	.79	.64	.55
6	43.74	43.66	44.10	44.28	44.44	44.65	45.90	44.35	43.99	43.78	43.64	43.55
7	.75	.65	.23	.16	.38	45.05	.65	.32	.98	.77	.63	.55
8	.74	.63	.62	.18	.48	.56	.34	.30	.97	.76	.63	.67
9	.78	.62	.96	.04	45.28	.56	.22	.34	.97	.76	.63	44.45
10	.78	.61	45.18	43.99	.73	.47	.15	.31	.96	.75	.63	.14
11	43.90	43.60	44.88	43.93	45.52	45.24	45.17	44.34	43.95	43.75	43.63	44.18
12	.91	.60	.96	.89	.11	.13	.34	.44	.95	.75	.63	.29
13	.87	.59	.77	.89	44.89	44.98	.52	.41	.94	.75	.62	.09
14	.86	.59	.51	.95	.89	.87	.42	.33	.93	.75	.62	43.93
15	.81	.58	.34	44.14	45.01	.79	.31	.27	.92	.73	.61	.82
16	43.80	43.58	44.18	44.29	45.05	44.68	45.36	44.28	43.91	43.73	43.60	43.76
17	.80	.58	.07	.29	44.86	.59	.52	.31	.92	.73	.60	.72
18	.80	.57	43.99	.26	.87	.51	.56	.25	.91	.72	.60	.71
19	.87	.62	44.14	.32	45.00	.49	.40	.20	.90	.71	.60	.80
20	.84	.92	.14	.44	44.93	.50	.24	.18	.88	.71	.60	.72
21	43.78	43.87	44.50	44.36	44.81	44.49	45.15	44.19	43.87	43.70	43.59	43.69
22	.74	.84	45.61	.26	.77	.45	.16	.21	.86	.70	.58	.73
23	.71	.85	.37	.34	.95	.56	.11	.16	.86	.69	.58	.89
24	.68	.84	44.75	.26	45.07	.55	44.98	.25	.85	.69	.58	.77
25	.67	.78	.39	.22	44.92	.58	.90	.34	.84	.69	.57	44.01
26	43.68	43.73	44.21	44.16	45.22	45.13	44.81	44.23	43.84	43.68	43.57	44.21
27	.70	.77	.13	.12	.65	46.07	.72	.25	.83	.68	.57	.36
28	.72	.87	.05	.08	.39	.15	.64	.24	.83	.67	.57	.27
29	.77	.79	.06	.04	.06	.11	.58	.19	.81	.66	-	43.99
30	.81	.70	.08	.04	44.82	45.79	.54	.13	.80	.66	-	.86
31	-	.68	-	.08	.68	-	.52	-	.80	.66	-	.78
Mean	43.77	43.70	44.36	44.15	44.90	44.97	45.26	44.29	43.92	43.73	43.61	43.86
Max.	43.91	43.92	45.61	44.44	45.73	46.15	45.90	44.49	44.10	43.80	43.65	44.45
Min.	43.67	43.57	43.66	43.89	44.07	44.45	44.52	44.13	43.80	43.66	43.59	43.55

WATER YEAR 1972 : Max. 46.15 m. Min. 43.57 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.60	5.84	3.04	12	12	31	83	27	14	7.20	4.45	3.04
2	3.60	5.84	3.46	12	15	32	90	25	14	7.01	4.28	3.04
3	3.46	4.40	3.32	11	32	33	96	23	13	6.25	4.28	3.04
4	3.46	3.60	3.80	18	35	32	93	22	12	7.01	4.28	3.04
5	3.80	3.18	7.28	21	27	30	92	21	12	7.01	4.28	2.90
6	4.40	3.04	13	19	25	33	99	21	12	6.82	4.28	2.90
7	4.60	2.90	17	15	22	52	84	20	11	6.63	4.11	2.90
8	4.40	2.62	32	15	26	79	67	19	11	6.44	4.11	4.79
9	5.20	2.48	47	11	64	79	60	21	11	6.44	4.11	25
10	5.20	2.34	58	10	89	74	57	20	11	6.25	4.11	15
11	8.00	2.20	44	8.72	76	61	58	21	11	6.25	4.11	16
12	8.24	2.20	47	7.76	55	56	67	25	11	6.25	4.11	20
13	7.28	2.08	39	7.76	44	48	76	24	10	6.25	3.94	14
14	7.04	2.08	28	9.20	44	43	71	21	10	6.25	3.94	10
15	5.84	1.96	21	14	50	39	65	18	9.90	5.87	3.77	7.64
16	5.60	1.96	15	19	52	35	68	19	9.65	5.87	3.60	6.44
17	5.60	1.96	12	19	43	31	76	20	9.90	5.87	3.60	5.68
18	5.60	1.84	10	18	43	28	79	18	9.65	5.68	3.60	5.49
19	7.28	2.48	14	20	49	27	70	16	9.40	5.49	3.60	7.20
20	6.56	8.48	14	25	46	27	61	15	8.96	5.49	3.60	5.68
21	5.20	7.28	27	22	40	27	57	16	8.74	5.30	3.46	5.13
22	4.40	6.56	82	18	39	25	57	16	8.52	5.30	3.32	5.87
23	3.80	6.80	68	21	47	30	55	15	8.52	5.13	3.32	9.18
24	3.32	6.56	38	18	53	29	48	18	8.30	5.13	3.32	6.63
25	3.18	5.20	23	17	46	30	45	21	8.08	5.13	3.18	12
26	3.32	4.20	16	15	60	56	40	18	8.08	4.96	3.18	17
27	3.60	5.00	14	14	84	110	36	18	7.86	4.96	3.18	22
28	4.00	7.28	12	12	69	116	33	18	7.86	4.79	3.18	19
29	5.00	5.40	12	11	52	113	30	17	7.42	4.62	–	12
30	5.84	3.60	12	11	41	92	29	15	7.20	4.62	–	8.52
31	–	3.32	–	12	35	–	28	–	7.20	4.62	–	6.82
Total	150.42	124.68	735.90	463.44	1,415	1,498	1,970	588	308.24	180.89	106.30	287.93
Mean	5.01	4.02	24.5	14.9	45.6	49.9	63.5	19.6	9.94	5.83	3.80	9.29
Max.	8.24	8.48	82	25	89	116	99	27	14	7.20	4.45	25
Min.	3.18	1.84	3.04	7.76	12	25	28	15	7.20	4.62	3.18	2.90
Runoff - mcm.	12.996	10.772	63.582	40.041	122.256	129.427	170.208	50.803	26.632	15.629	9.184	24.877

WATER YEAR 1972 : Max. 116 Min. 1.84 Mean 21.4 Annual Runoff 676.408 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.27	21.00	46.23	121				

NAN RIVER BASIN

Nan River at Ban Phra Fang, Uttaradit (N23)

Location: Lat. 17°-38'-16" N., Long. 100°-14'-02" E., on right bank about 1 kilometer upstream from Wat Phra Fang and 1.5 kilometers from Phra Fang – Ngiw 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: 1964-1974
Rated by Float: –
Rated by Current Meter: 1964-1974

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

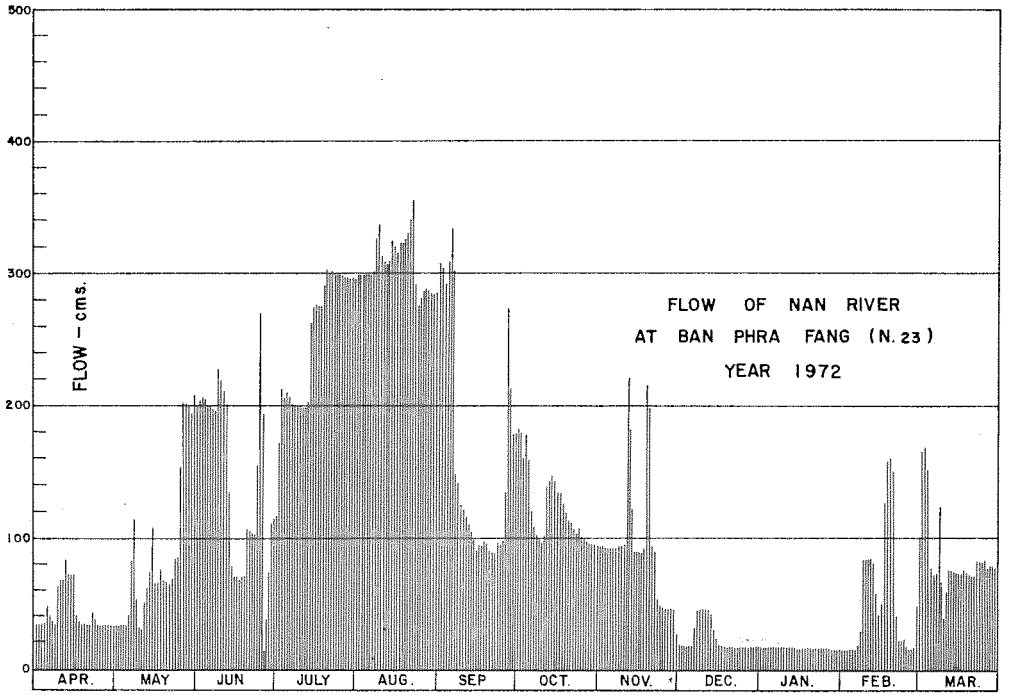
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge elation defined by 36 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	57.47	57.46	58.85	58.23	59.48	59.53	58.73	58.03	57.30	57.27	57.25	58.17
2	.49	.46	.88	.87	.48	.50	.70	.03	.29	.27	.25	.61
3	.48	.47	.89	.95	.48	.45	.57	.02	.29	.27	.25	.63
4	.49	.46	.87	.89	.48	.43	.69	.02	.29	.27	.25	.51
5	.61	.47	.85	.93	.48	.60	.52	.02	.29	.27	.25	57.95
6	57.53	57.94	58.84	58.91	59.48	59.70	58.29	58.02	57.28	57.27	57.25	57.85
7	.49	58.10	.83	.86	.52	58.78	.16	.02	.45	.27	.33	.84
8	.48	.19	.82	.86	.67	.43	.10	.03	.60	.27	.92	58.24
9	.77	57.51	59.03	.85	.72	.30	.07	.03	.60	.27	.95	.28
10	.82	.44	58.96	.85	.57	.26	.06	.03	.60	.27	.95	57.49
11	57.82	57.42	58.93	58.84	59.54	58.21	58.12	58.76	57.60	57.27	57.95	57.63
12	.94	.75	.86	.84	.53	.17	.41	59.00	.60	.27	.95	.88
13	.84	.77	.49	.88	.56	.13	.43	58.27	.60	.27	.83	.88
14	.86	58.00	57.91	59.29	.63	.06	.46	57.99	.44	.27	.58	.87
15	.56	.13	.83	.34	.59	57.99	.43	.99	.38	.26	.56	.87
16	57.54	57.78	57.84	59.34	59.59	58.04	58.36	57.99	57.28	57.26	57.69	57.87
17	.49	.80	.82	.33	.63	.04	.37	.99	.28	.26	58.52	.87
18	.47	.88	.83	.32	.64	.07	.31	58.14	.27	.26	.57	.88
19	.48	.82	.84	.46	.66	.04	.24	.96	.27	.26	.57	.87
20	.47	.80	58.14	.50	.70	.00	.19	.82	.27	.26	.48	.86
21	57.46	57.79	58.11	59.49	59.77	58.00	58.19	58.02	57.27	57.26	57.60	57.86
22	.57	.80	.11	.50	.83	.01	.14	57.98	.27	.26	.34	.86
23	.49	.94	.10	.49	.43	.06	.11	.66	.27	.26	.32	.94
24	.47	.96	.52	.48	.33	.04	.14	.62	.27	.26	.35	.93
25	.47	58.50	59.30	.48	.38	.07	.09	.61	.27	.26	.29	.93
26	57.47	58.87	58.97	59.47	59.41	58.31	58.07	57.61	57.27	57.26	57.25	57.94
27	.48	.86	57.21	.47	.41	59.32	.06	.61	.27	.25	.24	.89
28	.48	.86	.83	.46	.40	58.98	.05	.61	.27	.25	.24	.91
29	.47	.84	58.20	.46	.39	.69	.04	.61	.27	.25	–	.90
30	.46	.81	.21	.47	.39	.71	.04	.61	.27	.25	–	.89
31	–	.90	–	.46	.41	–	.03	.41	–	.25	–	.88
Mean	57.56	57.96	58.96	59.17	59.53	58.53	58.26	58.25	57.35	57.26	57.93	57.96
Max.	57.94	58.90	59.30	59.50	59.83	59.70	58.73	59.00	57.60	57.27	58.57	58.63
Min.	57.46	57.42	57.21	58.23	59.33	57.99	58.03	57.41	57.27	57.25	57.24	57.49

WATER YEAR 1972 : Max. 59.83 m. Min. 57.21 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34	33	200	118	299	307	183	94	20	18	16	110
2	35	33	204	203	299	302	179	94	19	18	16	166
3	34	34	206	214	299	294	161	92	19	18	16	169
4	35	33	203	206	299	291	178	92	19	18	16	153
5	47	34	200	211	299	318	155	92	19	18	16	84
6	39	83	199	208	299	334	125	92	19	18	16	72
7	35	102	197	201	305	149	109	92	32	18	22	71
8	34	113	196	201	329	143	102	94	46	18	80	119
9	63	37	227	200	337	126	98	94	46	18	84	124
10	68	31	216	200	313	121	97	94	46	18	84	35
11	68	30	211	199	308	115	104	187	46	18	84	49
12	83	61	201	199	307	110	140	222	46	18	84	76
13	71	63	151	204	312	106	143	122	46	18	70	76
14	72	90	79	268	323	97	147	89	31	18	44	74
15	72	106	70	276	316	89	143	89	26	17	42	74
16	40	64	71	276	316	95	134	89	19	17	55	74
17	35	66	68	275	323	95	135	89	19	17	155	74
18	34	76	70	273	324	98	127	107	18	17	161	76
19	34	68	71	296	328	95	119	216	18	17	161	74
20	34	66	107	302	334	90	113	196	18	17	149	72
21	33	65	103	300	345	90	113	92	18	17	46	72
22	43	66	103	302	355	91	107	88	18	17	23	72
23	35	83	102	300	291	97	103	52	18	17	22	83
24	34	85	155	299	275	95	107	48	18	17	24	82
25	34	152	270	299	283	98	101	47	18	17	19	82
26	34	203	217	297	288	127	98	47	18	17	16	83
27	34	201	14	297	288	273	97	47	18	16	16	77
28	34	201	70	296	286	219	96	47	18	16	16	79
29	34	199	114	296	284	178	95	47	18	16	–	78
30	33	194	115	297	284	180	95	47	18	16	–	77
31	–	207	–	296	288	–	94	29	–	16	–	76
Total	1,315	2,879	4,410	7,809	9,536	4,823	3,798	2,927	752	536	1,553	2,683
Mean	43.8	92.2	147	252	311	161	122	94.4	25.0	17.2	55.5	86.5
Max.	83	207	270	302	355	334	183	222	46	18	161	169
Min.	33	30	14	118	275	89	94	29	18	16	16	35
Runoff - MCM.	113.616	248.746	381.024	674.698	823.910	416.707	328.147	252.893	64.973	46.310	134.179	231.811

WATER YEAR 1972 : Max. 355 Min. 14 Mean 11.8 Annual Runoff 3,717.014 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.22	07.00	59.97	379				

NAN RIVER BASIN

Khlong Khek at Ban Wang Nok Aen, Phitsanulok (N24)

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

Drainage Area: 1,861 Sq.km.

Type of Gage: Water-stage recorder.

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

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

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

Gage Reading Frequency: Recording

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

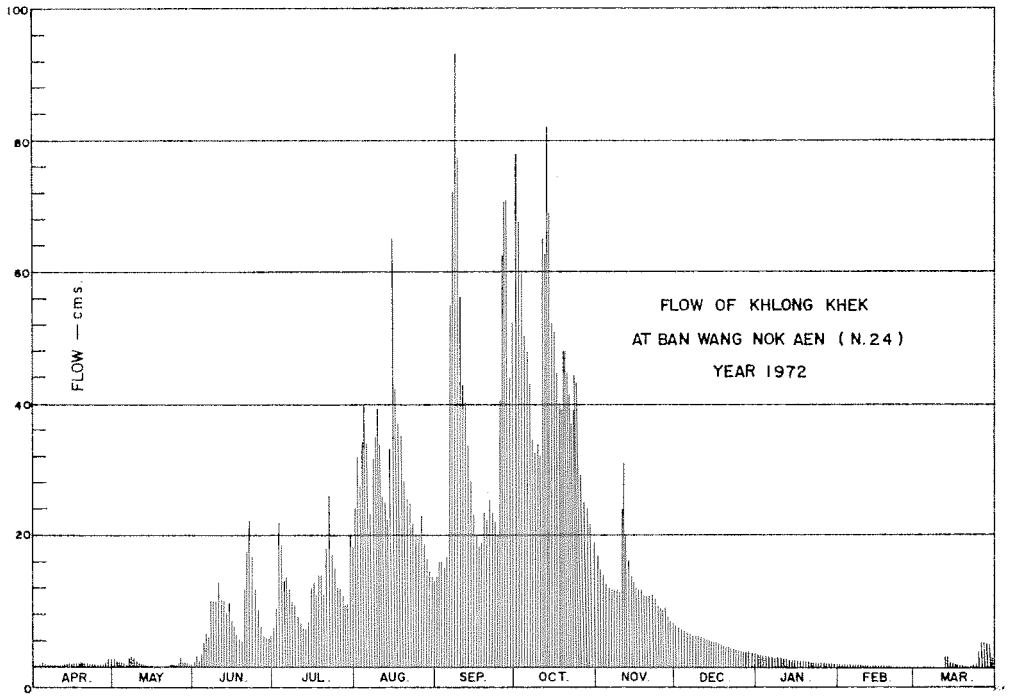
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 191 discharge measurements in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	0.70	0.77	1.15	2.10	1.63	3.89	1.78	1.17	0.80	0.61	0.51
2	.55	.67	.73	.35	.47	.75	.54	.72	.15	.80	.60	.51
3	.58	.64	.64	2.04	.25	.76	.35	.66.	.13	.79	.60	.51
4	.66	.61	.96	1.84	.73	.68	2.95	.61	.12	.78	.60	.50
5	.61	.59	1.07	.58	.53	.79	3.00	.56	.11	.77	.59	.50
6	0.58	0.58	0.97	1.63	2.26	3.22	2.84	1.54	1.09	0.76	0.59	0.49
7	.58	.76	1.42	.52	.06	.74	.56	.53	.07	.76	.59	.49
8	.58	.77	.43	.41	.40	4.34	.44	.52	.07	.76	.59	.50
9	.57	.70	.44	.37	.72	3.67	.54	.49	.06	.75	.58	.54
10	.58	.05	.61	.26	.54	.08	.45	2.13	.04	.75	.58	.53
11	0.58	0.62	1.42	1.19	2.23	2.84	3.53	2.41	1.03	0.75	0.58	0.53
12	.58	.59	.42	.14	.17	.75	.44	1.95	.02	.73	.58	.75
13	.59	.57	.29	.13	.01	.51	4.07	.75	.02	.73	.57	.78
14	.61	.54	.38	.22	.42	.24	3.47	.63	.01	.72	.56	.70
15	.60	.53	.22	.55	3.54	.08	.13	.59	0.99	.71	.53	.65
16	0.61	0.50	1.10	1.58	2.80	1.95	3.10	1.55	0.99	0.69	0.54	0.62
17	.60	.51	.05	.45	.62	.86	2.89	.53	.97	.69	.59	.60
18	.67	.54	.00	.62	.56	.89	.67	.48	.95	.71	.56	.59
19	.66	.53	0.96	.62	.48	2.15	3.04	.47	.93	.69	.56	.59
20	.62	.53	1.56	.47	.30	.05	.04	.47	.92	.69	.55	.55
21	0.61	0.52	1.86	1.83	2.18	2.17	2.78	1.48	0.91	0.68	0.54	0.55
22	.62	.57	2.04	2.21	.16	.09	.63	.48	.90	.68	.54	.55
23	.61	.59	1.71	1.82	.03	.04	.89	.39	.89	.67	.53	.59
24	.58	.57	.43	.69	1.92	1.94	.84	.37	.87	.66	.53	.63
25	.58	.67	.26	.54	.93	2.78	.49	.34	.86	.66	.53	.83
26	0.58	0.73	1.14	1.51	2.08	3.67	2.31	1.35	0.86	0.65	0.53	0.96
27	.58	.66	.06	.45	1.91	.70	.18	.29	.85	.64	.52	.99
28	.65	.64	.03	.37	.78	.19	.07	.25	.84	.63	.51	.97
29	.75	.62	.03	.41	.71	2.88	1.97	.22	.83	.62	-	.85
30	.75	.59	.07	.93	.62	3.12	.89	.19	.82	.61	-	.77
31	-	.58	-	.84	.55	-	.83	-	.81	.61	-	.75
Mean	0.64	0.59	1.23	1.54	2.26	2.55	2.83	1.19	0.98	0.71	0.56	0.64
Max.	0.75	0.77	2.04	2.21	3.54	4.34	4.07	2.41	1.17	0.80	0.61	0.99
Min.	0.55	0.52	0.64	1.13	1.55	1.63	1.83	1.19	0.81	0.61	0.51	0.49

WATER YEAR 1972 : Max. 4.34 m. Min. 0.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	1.00	1.70	6.10	24	14	78	17	6.38	2.00	0.55	0.050
2	0.25	0.85	1.30	9.00	32	16	65	15	6.10	2.00	0.50	0.050
3	0.40	0.70	0.70	22	27	16	58	14	5.82	1.90	0.50	0.050
4	0.80	0.55	3.60	18	40	15	46	13	5.68	1.80	0.50	0.00
5	0.55	0.45	4.98	13	34	17	48	12	5.54	1.70	0.45	0.00
6	0.40	0.40	3.70	14	27	55	43	12	5.26	1.60	0.45	0.00
7	0.40	1.60	10	12	23	72	35	12	4.98	1.60	0.45	0.00
8	0.40	1.70	10	9.97	31	93	32	12	4.98	1.60	0.45	0.00
9	0.35	1.00	10	9.32	39	70	34	11	4.84	1.50	0.40	0.20
10	0.40	0.75	13	7.64	34	49	32	24	4.56	1.50	0.40	0.15
11	0.40	0.60	10	6.66	26	43	65	31	4.42	1.50	0.40	0.15
12	0.40	0.45	10	5.96	25	40	62	20	4.28	1.30	0.40	1.50
13	0.45	0.35	8.06	5.82	22	33	84	16	4.28	1.30	0.35	1.80
14	0.55	0.20	9.48	7.08	31	27	63	14	4.14	1.20	0.30	1.00
15	0.50	0.15	7.08	12	65	23	52	13	3.90	1.10	0.15	0.75
16	0.55	0.00	5.40	13	42	20	51	12	3.90	0.95	0.20	0.60
17	0.50	0.05	4.70	11	37	18	44	12	3.70	0.95	0.45	0.50
18	0.85	0.20	4.00	14	35	19	38	11	3.50	1.10	0.30	0.45
19	0.80	0.15	3.60	14	33	23	48	11	3.30	0.95	0.30	0.45
20	0.60	0.15	12	11	28	22	48	11	3.20	0.95	0.25	0.25
21	0.55	0.10	18	18	25	25	41	11	3.10	0.90	0.20	0.25
22	0.60	0.35	22	26	25	23	37	11	3.00	0.90	0.20	0.25
23	0.55	0.45	15	17	22	22	44	9.64	2.90	0.85	0.15	0.45
24	0.40	0.35	10	15	20	20	43	9.32	2.70	0.80	0.15	0.65
25	0.40	0.35	7.64	12	20	41	33	8.84	2.60	0.80	0.15	2.30
26	0.40	1.30	5.96	12	23	70	28	9.00	2.60	0.75	0.15	3.60
27	0.40	0.80	4.84	11	19	71	25	8.06	2.50	0.70	0.10	3.90
28	0.75	0.70	4.42	9.32	17	54	23	7.50	2.40	0.65	0.050	3.70
29	1.50	0.60	4.42	9.97	15	44	21	7.08	2.30	0.60	–	2.50
30	1.50	0.45	4.98	20	14	51	19	6.66	2.20	0.55	–	1.70
31	–	0.40	–	18	12	–	18	–	2.10	0.55	–	1.50
Total	16.85	17.15	230.56	389.84	867	1,106	1,358	381.10	121.16	36.55	8.90	28.75
Mean	0.562	0.553	7.68	12.6	28.0	36.9	43.8	12.7	3.91	1.18	0.32	0.93
Max.	1.50	1.70	22	26	65	93	84	31	6.38	2.00	0.55	3.90
Min.	0.25	0.10	0.70	5.82	12	14	18	6.66	2.10	0.55	0.050	0.00
Runoff – MCM.	1.456	1.482	19.920	33.682	74.909	95.558	117.331	32.927	10.468	3.158	0.769	2.484

WATER YEAR 1972 : Max. 93 Min. 0.00 Mean 12.5 Annual Runoff 394.145 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8	12.00	5.28	131				

NAN RIVER BASIN

Khlong Ta Yom at Ban Wat Ta Yom, Phitsanulok (N25)

Location: Lat. 16°-36'-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. - R.S./R.I.D.

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.

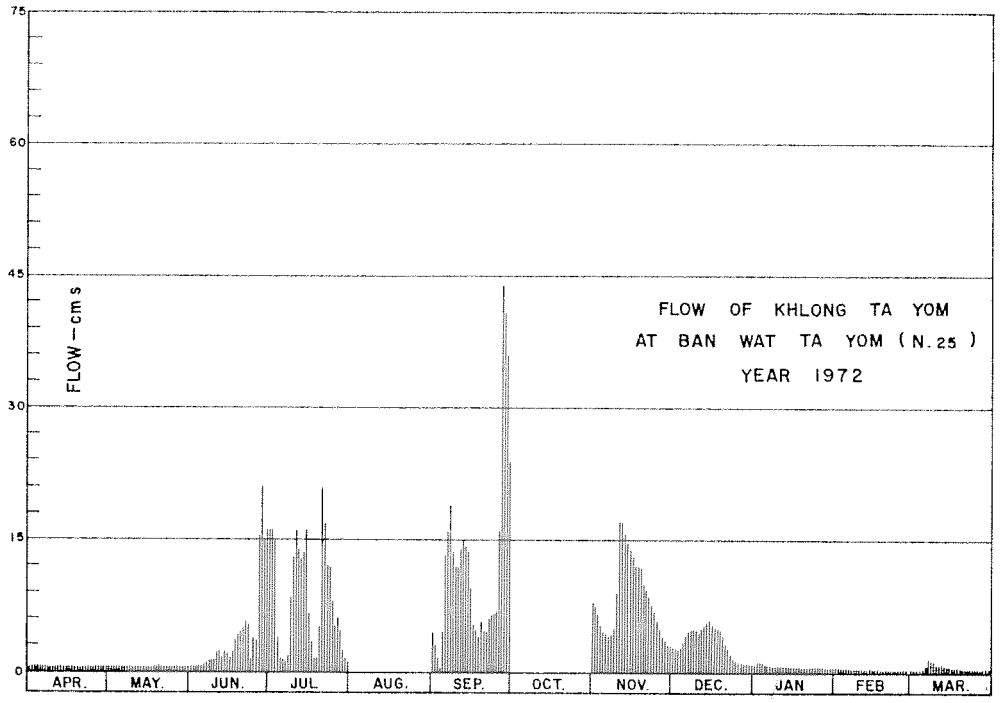
General Description: Records fair. Stage-discharge relation defined by 240 discharge measurements made during 1965-1968.

Remarks: No gage height and discharge records on period August 1 - 31 and October 1 - 31, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.77	0.76	0.80	2.54		1.44		1.80	1.22	0.91	0.83	0.75
2	.77	.76	.80	.52		.24		.72	.20	.93	.83	.74
3	.77	.76	.79	.44		0.97		.62	.18	.95	.82	.73
4	.77	.76	.79	1.35		.78		.48	.18	.93	.80	.72
5	.79	.77	.80	.00		.91		.44	.28	.89	.80	.73
6	0.79	0.79	0.81	0.99		2.29		1.40	1.38	0.87	0.79	0.83
7	.78	.79	.90	.97		.65		.39	.47	.86	.79	1.02
8	.78	.78	.96	.90		.81		.43	.48	.85	.79	0.99
9	.78	.78	.97	1.88		.33		.66	.48	.85	.78	.99
10	.78	.78	.97	2.30		.18		2.28	.47	.85	.78	.91
11	0.77	0.78	1.12	2.52		2.22		2.58	1.46	0.87	0.78	0.88
12	.77	.78	.14	.35		.33		.56	.50	.86	.78	.90
13	.77	.78	.00	.26		.44		.46	.55	.86	.77	.87
14	.77	.78	.12	.21		.38		.39	.58	.86	.78	.85
15	.79	.77	.08	.53		1.76		.38	.60	.86	.76	.82
16	0.79	0.77	1.00	1.60		1.56		2.28	1.54	0.86	0.75	0.82
17	.78	.77	.02	.21		.45		.23	.51	.86	.75	.81
18	.78	.77	.32	0.98		.37		.16	.49	.86	.75	.81
19	.78	.80	.39	.97		.59		.17	.48	.86	.75	.79
20	.78	.81	.45	2.44		.47		.04	.41	.85	.75	.78
21	0.77	0.79	1.50	2.95		1.44		1.96	1.24	0.85	0.75	0.77
22	.77	.78	.58	.60		.64		.88	.20	.86	.75	.77
23	.77	.78	.52	.19		.67		.77	.05	.86	.75	.77
24	.77	.78	0.97	.19		.70		.69	0.99	.86	.75	.76
25	.77	.78	1.34	.71		.71		.60	.95	.86	.75	.76
26	0.77	0.77	1.27	1.53		2.64		1.49	0.93	0.86	0.75	0.76
27	.76	.77	2.46	.62		4.41		.39	.91	.85	.75	.76
28	.76	.77	.92	.42		.23		.34	.91	.86	.75	.76
29	.76	.77	.43	.12		3.96		.26	.90	.86	-	.76
30	.76	.77	.52	0.97		.17		.24	.90	.86	-	.76
31	-	.77	-	.95		-		-	.90	.84	-	.76
Mean	0.77	0.77	1.29	1.76		2.09		2.16	1.26	0.89	0.77	0.81
Max.	0.79	0.81	2.92	2.95		4.41		2.58	1.60	0.95	0.83	1.02
Min.	0.76	0.76	0.79	0.90		0.78		1.24	0.90	0.84	0.75	0.72

WATER YEAR 1972 : Max. 4.41 m. Min. 0.72 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	0.46	0.60	16		4.52		7.90	2.94	1.05	0.72	0.42
2	0.49	0.46	0.60	16		3.08		7.06	2.80	1.16	0.72	0.39
3	0.49	0.46	0.56	15		1.38		6.09	2.67	1.27	0.68	0.35
4	0.49	0.46	0.56	3.85		0.53		4.84	2.67	1.16	0.60	0.32
5	0.56	0.49	0.60	1.55		1.05		4.52	3.36	0.96	0.60	0.35
6	0.56	0.56	0.64	1.49		13		4.20	4.06	0.88	0.56	0.72
7	0.53	0.56	1.00	1.38		17		4.13	4.76	0.84	0.56	1.67
8	0.53	0.53	1.33	1.00		19		4.44	4.84	0.80	0.56	1.49
9	0.53	0.53	1.38	8.70		14		6.47	4.84	0.80	0.53	1.49
10	0.53	0.53	1.38	13		12		13	4.76	0.80	0.53	1.05
11	0.49	0.53	2.28	16		12		17	4.68	0.88	0.53	0.92
12	0.49	0.53	2.41	14		14		16	5.00	0.84	0.53	1.00
13	0.49	0.53	1.55	13		15		15	5.45	0.84	0.49	0.88
14	0.49	0.53	2.28	12		14		14	5.72	0.84	0.53	0.80
15	0.56	0.49	2.03	16		7.48		14	5.90	0.84	0.46	0.68
16	0.56	0.49	1.55	5.90		5.45		13	5.36	0.84	0.42	0.68
17	0.53	0.49	1.67	2.87		4.60		12	5.09	0.84	0.42	0.64
18	0.53	0.49	3.64	1.44		3.99		12	4.92	0.84	0.42	0.64
19	0.53	0.60	4.13	1.38		5.81		12	4.84	0.84	0.42	0.56
20	0.53	0.64	4.60	4.62		4.76		10	4.28	0.80	0.42	0.53
21	0.49	0.56	5.00	21		4.52		9.56	3.08	0.80	0.42	0.49
22	0.49	0.53	5.72	17		6.28		8.70	2.80	0.84	0.42	0.49
23	0.49	0.53	5.18	12		6.56		7.58	1.85	0.84	0.42	0.49
24	0.49	0.53	1.38	12		6.85		6.75	1.49	0.84	0.42	0.46
25	0.49	0.53	3.78	6.96		6.96		5.90	1.27	0.84	0.42	0.46
26	0.49	0.49	3.29	5.27		17		4.92	1.16	0.84	0.42	0.46
27	0.46	0.49	15	6.09		44		4.13	1.05	0.80	0.42	0.46
28	0.46	0.49	21	4.36		41		3.78	1.05	0.84	0.42	0.46
29	0.46	0.49	15	2.28		36		3.22	1.00	0.84	–	0.46
30	0.46	0.49	16	1.38		24		3.08	1.00	0.84	–	0.46
31	–	0.49	–	1.27		–		–	1.00	0.76	–	0.46
Total	15.18	15.98	126.14	254.57		365.82		255.27	105.69	27.20	14.06	20.73
Mean	0.506	0.515	4.20	8.21		12.19		8.50	3.40	0.877	0.502	0.668
Max.	0.56	0.64	21	21		44		17	5.90	1.27	0.72	1.67
Min.	0.46	0.46	0.56	1.00		0.53		3.08	1.00	0.76	0.42	0.32
Runoff - mcm.	1.311	1.381	10.898	21.995		31.607		22.055	9.132	2.350	1.215	1.791

WATER YEAR 1972 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

NAN RIVER BASIN

Nan River at Amphoe Tron, Uttaradit (N26)

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: 1965-1974
Rated by Float: -
Rated by Current Meter: 1965-1974.

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

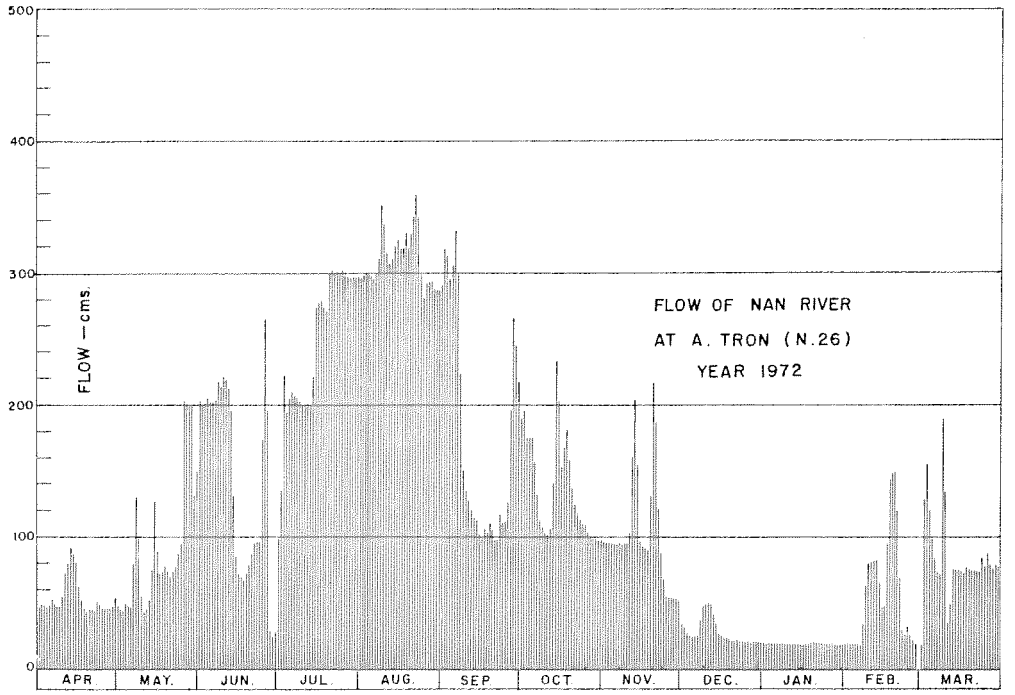
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 50 discharge measurements made in 1972. Flow released by Sirikit Dam reservoir since June 5, 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.83	0.84	2.26	1.58	2.84	2.86	2.16	1.38	0.61	0.43	0.40	0.41
2	.85	.80	.23	.84	.85	.95	.20	.37	.61	.43	.40	1.71
3	.84	.80	.27	2.39	.86	.92	.05	.37	.53	.43	.40	.91
4	.83	.86	.27	.20	.85	.82	.05	.37	.53	.43	.40	.52
5	.85	.84	.24	.31	.84	.90	.06	.37	.52	.43	.40	.40
6	0.91	0.83	2.25	2.31	2.84	3.04	1.85	1.36	0.51	0.43	0.41	1.21
7	.85	1.48	.27	.27	.88	2.81	.64	.37	.52	.43	.41	.15
8	.84	.70	.36	.26	.94	1.97	.52	.36	.82	.43	.77	.16
9	.90	.10	.33	.25	3.14	.80	.47	.37	.85	.43	1.20	2.16
10	1.10	0.85	.39	.24	.00	.72	.43	.37	.87	.43	.24	1.27
11	1.18	0.79	2.36	2.24	2.92	1.66	1.44	1.59	0.88	0.43	1.24	0.67
12	.28	.85	.31	.24	.90	.60	.56	2.26	.87	.43	.24	1.02
13	.34	1.12	.19	.24	.92	.55	2.03	.26	.67	.43	.23	.18
14	.26	.22	1.38	.46	.98	.54	.45	1.68	.58	.43	.02	.17
15	.21	.67	.25	.72	3.00	.40	.12	.34	.53	.43	0.84	.16
16	0.93	1.13	1.14	2.73	2.96	1.40	1.90	1.34	0.50	0.42	0.86	1.16
17	.90	.14	.09	.74	.96	.48	2.07	.33	.48	.42	1.45	.16
18	.78	.17	.09	.70	3.03	.44	.11	.33	.48	.42	.84	.19
19	.79	.20	.15	.68	2.96	.54	1.86	.95	.46	.42	.86	.17
20	.83	.13	.25	.86	3.04	.42	.71	2.35	.46	.42	.86	.16
21	0.82	1.11	1.36	2.87	3.09	1.39	1.63	1.79	0.45	0.42	1.44	1.16
22	.81	.18	.39	.86	.19	.42	.58	.36	.44	.42	0.86	.16
23	.89	.23	.38	.86	.05	.59	.54	.24	.44	.42	.60	.16
24	.85	.33	.40	.86	2.76	.52	.51	0.95	.44	.41	.55	.27
25	.83	.40	2.47	.86	.75	.60	.50	.93	.44	.41	.65	.19
26	0.82	2.26	2.65	2.84	2.82	1.74	1.45	0.93	0.44	0.41	0.51	1.30
27	.82	.23	1.42	.84	.82	2.47	.42	.93	.44	.40	.45	.22
28	.84	.23	0.51	.84	.83	.65	.41	.92	.43	.40	.41	.18
29	.85	.23	.52	.84	.79	.46	.40	.93	.43	.40	-	.21
30	.92	1.71	.61	.84	.78	.30	.39	.90	.43	.40	-	.20
31	-	.90	-	-	.79	-	.39	-	.43	.40	-	.18
Mean	0.92	1.30	1.72	2.53	2.91	2.00	1.74	1.40	0.55	0.42	0.89	1.23
Max.	1.34	2.26	2.65	2.87	3.19	3.04	2.45	2.35	0.88	0.43	1.86	2.16
Min.	0.78	0.79	0.51	1.58	2.75	1.39	1.39	0.90	0.43	0.40	0.40	0.41

WATER YEAR 1972 : Max. 3.19 m. Min. 0.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	46	47	203	117	296	300	189	96	31	20	19	19
2	48	44	199	147	298	316	195	95	31	20	19	131
3	47	44	205	222	300	311	174	95	26	20	19	155
4	46	49	205	195	298	293	174	95	26	20	19	110
5	48	47	201	210	296	307	175	95	25	20	19	98
6	53	46	202	210	296	332	148	94	25	20	19	79
7	48	106	205	205	303	291	123	95	25	20	19	73
8	47	130	218	203	314	163	110	94	46	20	42	74
9	52	69	213	202	350	142	105	95	48	20	78	189
10	69	48	222	201	325	132	101	95	50	20	82	85
11	76	43	218	201	311	126	102	118	50	20	82	35
12	86	48	210	201	307	119	115	203	50	20	82	62
13	92	71	194	201	311	113	171	203	35	20	81	76
14	84	80	96	234	321	112	232	128	29	20	62	75
15	79	127	83	275	325	98	184	92	26	20	47	74
16	54	72	73	277	318	98	154	92	24	20	49	74
17	52	73	68	279	318	106	177	91	23	20	103	74
18	43	75	68	272	330	102	182	91	23	20	147	77
19	43	78	73	269	318	112	149	160	22	20	149	75
20	46	72	83	300	332	100	131	216	22	20	149	74
21	46	70	94	302	341	97	122	141	21	20	102	74
22	45	76	97	300	359	100	117	94	21	20	43	74
23	51	81	96	300	334	118	112	82	21	20	30	74
24	48	91	98	300	282	110	109	56	21	19	27	85
25	46	98	235	300	280	119	108	54	21	19	33	77
26	46	203	264	296	293	135	103	54	21	19	25	88
27	46	199	100	296	293	235	100	54	21	19	21	80
28	47	199	25	296	294	264	99	54	21	19	19	76
29	48	131	25	296	287	234	98	54	21	19	–	79
30	54	154	31	296	286	209	97	52	21	19	–	78
31	–	–	–	296	287	–	97	–	21	19	–	76
Total	1,636	2,870	4,304	7,699	9,603	5,294	4,253	3,038	868	612	1,586	2,570
Mean	54.5	92.6	143	248	310	176	137	101	28.0	19.7	56.6	82.9
Max.	92	203	264	302	359	332	232	216	50	20	149	189
Min.	43	43	25	117	280	97	97	52	21	19	19	19
Runoff – mcm.	141.350	247.968	371.866	665.194	829.699	457.402	367.459	262.483	74.995	52.877	137.030	222.048

WATER YEAR 1972 : Max. 359 Min. 19 Mean 121 Annual Runoff 3,830.371 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.22	18.00	3.22	365				

NAN RIVER BASIN

Nan River at Amphoe Phrom Phiram, Phitsanulok (N27)

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: 1965-1974
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.

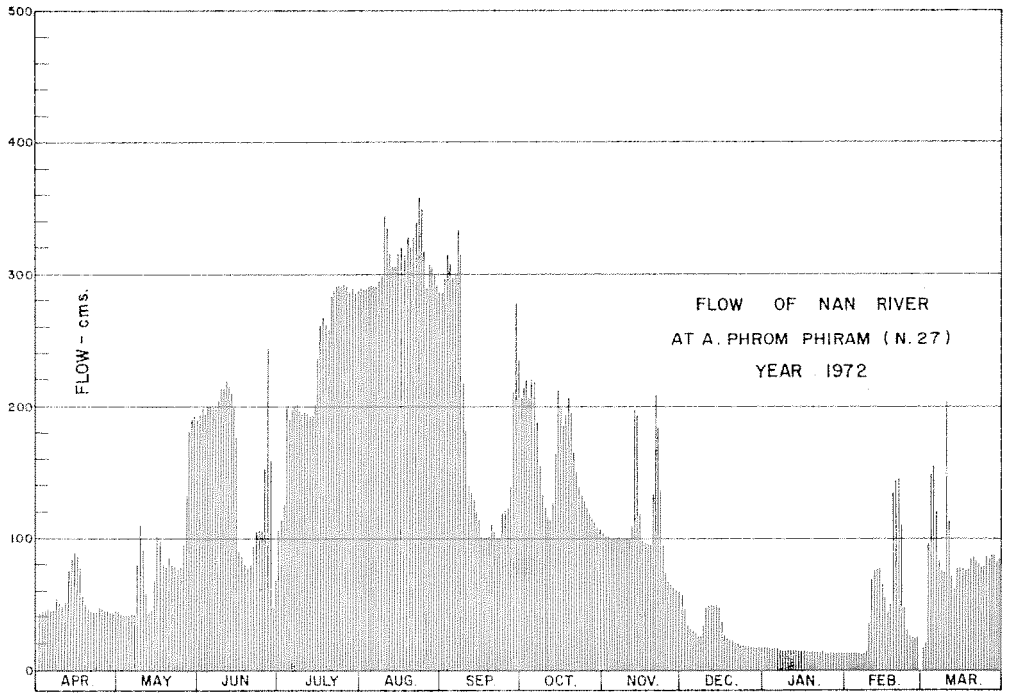
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 53 discharge measurements made in 1972. Flow released by Sirikit Dam reservoir since June 5, 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39.05	39.06	40.84	40.00	41.69	41.68	40.95	39.90	39.28	38.59	38.50	38.60
2	.06	.05	.89	.00	.68	.79	41.07	.87	.08	.58	.50	.56
3	.08	.04	.84	.18	.71	.91	.09	.87	38.91	.58	.50	39.78
4	.11	.04	.90	.89	.72	.83	40.96	.85	.86	.57	.50	40.35
5	.08	.03	.90	.80	.72	.75	41.10	.84	.83	.57	.50	.44
6	39.10	39.03	40.88	40.90	41.70	41.80	41.07	39.84	38.81	38.57	38.50	40.13
7	.24	.03	.89	.92	.72	42.04	40.75	.86	.79	.56	.50	39.66
8	.18	.57	.95	.89	.75	41.90	.40	.85	.77	.56	.50	.54
9	.13	.97	41.03	.85	.83	40.89	.20	.85	.96	.56	.55	.53
10	.11	.85	.03	.85	42.13	.48	.08	.85	39.13	.55	39.32	40.91
11	39.46	39.27	41.08	40.84	42.03	40.29	40.02	39.85	39.10	38.55	39.51	40.39
12	.59	.07	.05	.83	41.87	.24	.01	40.00	.16	.55	.55	39.44
13	.67	.06	.00	.83	.83	.15	.20	.87	.17	.55	.57	.35
14	.71	.41	40.86	.85	.83	.07	.70	.82	.17	.55	.57	.56
15	.66	.49	.19	41.07	.91	.00	41.02	.05	.15	.54	.41	.57
16	39.66	39.88	39.72	41.44	41.96	39.86	40.90	39.82	38.97	38.54	39.13	39.56
17	.32	.83	.67	.50	.91	.86	.76	.80	.76	.53	.05	.55
18	.20	.58	.61	.51	.91	.86	.86	.80	.72	.53	.37	.55
19	.12	.59	.56	.47	42.00	.88	.96	.80	.70	.53	40.22	.65
20	.08	.68	.57	.43	41.94	.98	.68	40.34	.68	.53	.34	.67
21	39.09	39.61	39.64	41.66	42.03	39.89	40.46	40.98	38.67	38.52	40.37	39.64
22	.08	.57	.91	.71	.09	.84	.34	.51	.65	.52	.04	.59
23	.06	.56	.92	.71	.24	.90	.27	39.91	.63	.52	39.30	.57
24	.14	.59	.92	.71	.08	40.08	.20	.76	.63	.51	38.89	.56
25	.10	.72	.91	.72	41.72	.10	.14	.46	.63	.51	.77	.68
26	39.08	39.81	40.88	41.71	41.67	40.12	40.11	39.39	38.62	38.51	38.74	39.64
27	.08	40.61	41.32	.69	.84	.36	.05	.36	.61	.51	.73	.69
28	.06	.80	40.32	.67	.81	41.18	.01	.34	.61	.51	.74	.70
29	.07	.80	39.12	.68	.75	.59	39.96	.32	.60	.51	-	.62
30	.08	.82	.67	.67	.70	.14	.95	.32	.60	.51	-	.65
31	-	.78	-	.68	.67	-	.92	-	.60	.50	-	.63
Mean	39.21	39.65	40.40	41.18	41.85	40.68	40.49	39.90	38.83	38.54	39.11	39.67
Max.	39.71	40.82	41.32	41.72	42.24	42.04	41.10	40.98	39.28	38.59	40.37	40.91
Min.	39.05	39.03	39.12	40.00	41.67	39.84	39.92	39.32	38.60	38.50	38.50	38.56

WATER YEAR 1972 : Max. 42.24 m. Min. 38.50 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43	44	194	113	289	288	205	104	58	18	14	18
2	44	43	199	113	288	301	217	102	45	17	14	16
3	45	42	194	129	291	315	219	102	35	17	14	94
4	47	42	200	199	292	306	206	100	32	17	14	145
5	45	42	200	190	292	296	220	99	30	17	14	154
6	46	42	198	200	290	302	217	99	29	17	14	125
7	55	42	199	202	292	333	185	101	27	16	14	85
8	51	78	205	199	296	314	150	100	26	16	14	76
9	48	110	213	195	306	199	131	100	38	16	16	75
10	47	100	213	195	344	158	120	100	48	16	60	201
11	70	57	218	194	331	139	115	100	50	16	74	149
12	79	44	215	193	310	135	114	113	50	16	76	69
13	86	44	210	193	306	126	131	197	50	16	78	62
14	89	69	196	195	306	119	180	192	50	16	78	77
15	85	72	130	217	315	113	212	117	49	16	67	78
16	85	102	90	259	322	101	200	98	38	16	48	77
17	60	98	86	266	315	101	186	96	26	15	43	76
18	52	79	81	267	315	101	196	96	24	15	64	76
19	47	79	77	262	327	102	206	96	23	15	133	84
20	45	86	78	258	319	111	178	144	22	15	144	86
21	45	81	83	285	331	103	156	208	21	15	147	83
22	45	78	105	291	340	99	144	161	20	15	117	79
23	44	77	106	291	358	104	137	105	19	15	59	78
24	48	79	106	291	338	120	131	93	19	14	33	77
25	46	90	105	292	292	122	126	70	19	14	26	86
26	45	97	198	291	286	124	123	66	19	14	25	83
27	45	171	244	289	307	146	117	63	18	14	24	87
28	44	190	142	286	303	229	114	62	18	14	25	88
29	44	190	47	288	296	277	109	60	18	14	–	82
30	45	192	86	286	290	224	108	60	18	14	–	84
31	–	188	–	288	286	–	106	–	18	14	–	82
Total	1,620	2,746	4,618	7,217	9,573	5,508	4,959	3,203	957	480	1,449	2,732
Mean	54.0	88.6	154	233	309	184	160	107	30.9	15.5	51.7	88.1
Max.	89	192	244	292	358	333	219	208	58	18	147	201
Min.	43	42	47	113	286	99	106	60	18	14	14	16
Runoff - mcm.	139.968	237.254	398.995	623.549	827.107	475.891	428.458	276.739	82.685	41.472	125.194	236.045

WATER YEAR 1972 : Max. 358 Min. 14 Mean 123 Annual Runoff 3,893.357 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.23	18.00	42.28	363				

NAN RIVER BASIN

Khlong Tron at Ban Nam Lai, Uttaradit (N28)

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 staff 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: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

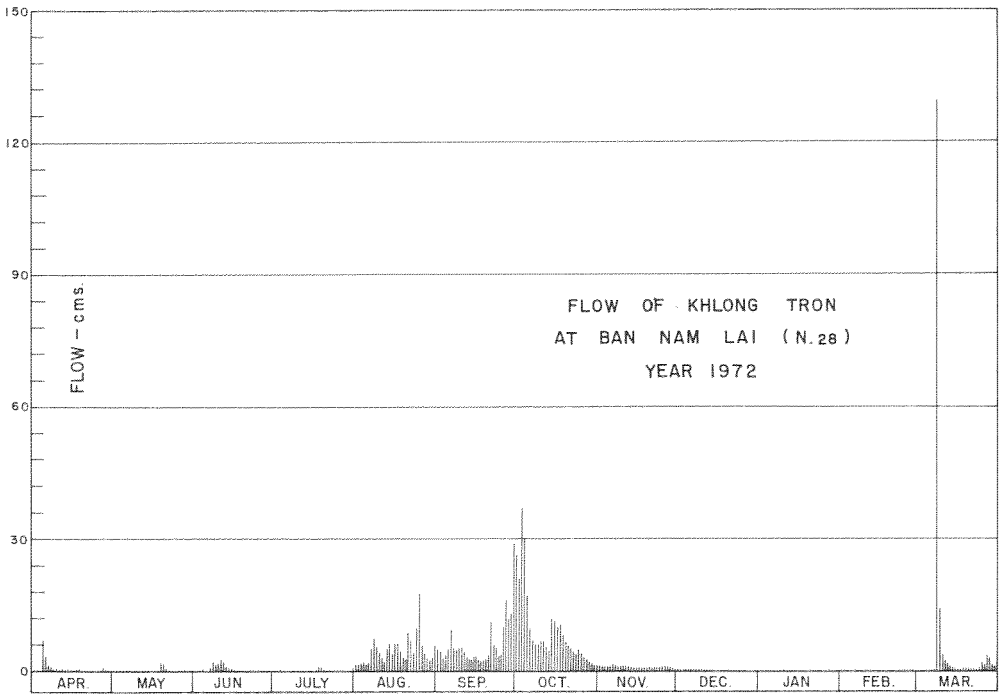
General Description: Records fair. Stage-discharge relation defined by 545 discharge measurements made during 1967-1970.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.38	0.45	0.39	0.45	0.72	1.20	2.38	0.79	0.63	0.49	0.43	0.39
2	.39	.43	.41	.50	.83	.19	.20	.77	.62	.49	.43	.39
3	.56	.40	.45	.59	.82	0.95	.76	.75	.61	.49	.43	.39
4	1.38	.38	.54	.56	.86	1.03	.22	.73	.61	.48	.43	.43
5	0.79	.38	.48	.52	.78	.09	1.92	.73	.60	.48	.43	.40
6	0.72	0.37	0.51	0.50	0.78	2.36	1.57	0.83	0.59	0.48	0.43	0.39
7	.57	.36	.64	.46	1.47	1.56	.41	.78	.59	.48	.43	.40
8	.51	.36	.84	.44	.43	.30	.29	.75	.58	.48	.43	3.67
9	.56	.35	.77	.42	.17	.16	.29	.76	.58	.47	.43	1.82
10	.50	.35	.89	.40	.12	.21	.38	.76	.57	.47	.43	.04
11	0.62	0.34	0.94	0.38	0.95	1.14	1.38	0.75	0.57	0.47	0.43	0.86
12	.58	.34	.72	.39	.86	.02	.28	.74	.56	.47	.44	.76
13	.54	.34	.64	.38	1.28	0.93	.19	.71	.55	.46	.44	.67
14	.56	.33	.62	.37	.33	.93	.76	.70	.54	.46	.44	.67
15	.54	.33	.57	.38	.06	1.04	.71	.70	.54	.46	.43	.57
16	0.49	0.33	0.52	0.41	1.33	1.04	1.62	0.72	0.53	0.46	0.43	0.52
17	.59	.36	.51	.50	.34	0.90	.70	.71	.53	.45	.42	.52
18	.52	.44	.49	.73	.14	.86	.46	.68	.53	.45	.42	.57
19	.47	.85	.48	.61	.00	.92	.37	.68	.52	.45	.41	.58
20	.45	.78	.48	.55	0.92	.94	.32	.71	.52	.45	.41	.54
21	0.42	0.58	0.48	0.50	1.49	1.64	1.27	0.68	0.51	0.45	0.41	0.54
22	.41	.50	.51	.48	.30	.28	.19	.68	.51	.44	.40	.49
23	.40	.46	.51	.46	.11	.24	.08	.68	.51	.44	.40	.48
24	.40	.43	.47	.47	.48	.06	.21	.73	.50	.44	.39	.53
25	.37	.42	.46	.47	.95	.07	.14	.75	.50	.44	.40	.87
26	0.54	0.41	0.45	0.43	1.36	1.60	1.02	0.76	0.50	0.44	0.42	0.74
27	.64	.44	.45	.46	.12	.95	0.95	.72	.50	.43	.39	1.06
28	.49	.42	.49	.48	0.98	.75	.91	.69	.49	.43	.38	0.92
29	.46	.40	.50	.46	.92	.80	.87	.66	.49	.43	-	.75
30	.46	.39	.44	.51	.87	2.49	.83	.65	.49	.43	-	.66
31	-	.40	-	.71	1.27	-	.81	-	.49	.43	-	.61
Mean	0.55	0.42	0.55	0.48	1.13	1.29	1.44	0.72	0.54	0.46	0.42	0.74
Max.	1.38	0.85	0.94	0.73	1.95	2.49	2.38	0.83	0.63	0.49	0.44	3.67
Min.	0.37	0.33	0.39	0.37	0.72	0.86	0.81	0.65	0.49	0.43	0.38	0.39

WATER YEAR : Max. 3.67 m. Min. 0.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.08	0.20	0.09	0.20	1.22	5.10	25	1.64	0.75	0.28	0.16	0.09
2	0.09	0.16	0.12	0.30	1.91	5.00	21	1.52	0.70	0.28	0.16	0.09
3	0.48	0.10	0.20	0.57	1.84	2.80	37	1.40	0.65	0.28	0.16	0.09
4	7.06	0.08	0.42	0.48	2.12	3.47	23	1.28	0.65	0.26	0.16	0.16
5	1.64	0.08	0.26	0.36	1.58	4.01	15	1.28	0.60	0.26	0.16	0.10
6	1.22	0.07	0.33	0.30	1.58	25	9.58	1.91	0.57	0.26	0.16	0.09
7	0.51	0.06	0.80	0.22	8.21	9.44	7.43	1.58	0.57	0.26	0.16	0.10
8	0.33	0.06	1.98	0.18	7.69	6.10	6.00	1.40	0.54	0.26	0.16	129 *
9	0.48	0.05	1.52	0.14	4.80	4.70	6.00	1.46	0.54	0.24	0.16	15 *
10	0.30	0.05	2.33	0.10	4.30	5.20	7.06	1.46	0.51	0.24	0.16	3.57*
11	0.70	0.04	2.72	0.08	2.80	4.50	7.06	1.40	0.51	0.24	0.16	2.12
12	0.54	0.04	1.22	0.09	2.12	3.38	5.90	1.34	0.48	0.24	0.18	1.46
13	0.42	0.04	0.80	0.08	5.90	2.64	5.00	1.16	0.45	0.22	0.18	0.95
14	0.48	0.03	0.70	0.07	6.46	2.64	12	1.10	0.42	0.22	0.18	0.70
15	0.42	0.03	0.51	0.08	3.74	3.56	12	1.10	0.42	0.22	0.16	0.51
16	0.28	0.03	0.36	0.12	6.46	3.56	10	1.22	0.39	0.22	0.16	0.36
17	0.57	0.06	0.33	0.30	6.58	2.40	11	1.16	0.39	0.20	0.14	0.36
18	0.36	0.18	0.28	1.28	4.50	2.12	8.08	1.00	0.39	0.20	0.14	0.51
19	0.24	2.05	0.26	0.65	3.20	2.56	6.94	1.00	0.36	0.20	0.12	0.54
20	0.20	1.58	0.26	0.45	2.56	2.72	6.34	1.16	0.36	0.20	0.12	0.42
21	0.14	0.54	0.26	0.30	8.47	11	5.80	1.00	0.33	0.20	0.12	0.42
22	0.12	0.30	0.33	0.26	6.10	5.90	5.00	1.00	0.33	0.18	0.10	0.28
23	0.10	0.22	0.33	0.22	4.20	5.50	3.92	1.00	0.33	0.18	0.10	0.26
24	0.10	0.16	0.24	0.24	8.34	3.74	5.20	1.28	0.30	0.18	0.09	0.39
25	0.07	0.14	0.22	0.24	16	3.83	4.50	1.40	0.30	0.18	0.10	2.19
26	0.42	0.12	0.20	0.16	6.82	10	3.38	1.46	0.30	0.18	0.14	1.34
27	0.80	0.18	0.20	0.22	4.30	16	2.80	1.22	0.30	0.16	0.09	3.74
28	0.28	0.14	0.28	0.26	3.04	12	2.48	1.05	0.28	0.16	0.08	2.56
29	0.22	0.10	0.30	0.22	2.56	13	2.19	0.90	0.28	0.16	–	1.40
30	0.22	0.09	0.18	0.33	2.19	29	1.91	0.85	0.28	0.16	–	0.90
31	–	0.10	–	1.16	5.80	–	1.77	–	0.28	0.16	–	0.65
Total	18.87	7.08	18.03	9.66	147.39	210.87	280.34	37.73	13.56	6.68	3.96	170.35
Mean	0.63	0.23	0.60	0.31	4.75	7.03	9.04	1.26	0.44	0.21	0.14	5.49
Max.	7.06	2.05	2.72	1.28	16	29	37	1.91	0.75	0.28	0.18	129
Min.	0.07	0.03	0.09	0.07	1.22	2.12	1.77	0.85	0.28	0.16	0.08	0.09
Runoff - mcm.	1.630	0.612	1.558	0.835	12.734	18.219	24.221	3.260	1.171	0.577	0.342	14.718

WATER YEAR 1972 : Max. 129 Min. 0.03 Mean 2.53 Annual Runoff 79.878 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Mar. 8, 73	11.00	7.48	482				

NAN RIVER BASIN

Khlong Tron at Ban Na Klam Bridge, Uttaradit (N28A)

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.

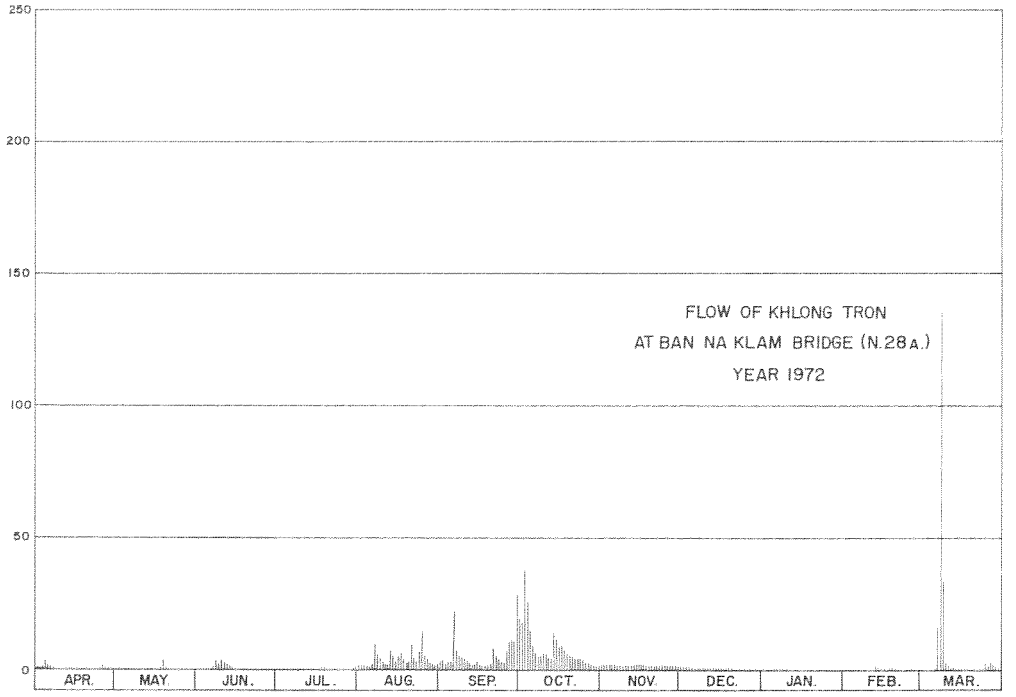
General Description: Records fair. Stage-discharge relation defined by 92 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.35	1.40	1.34	1.36	1.62	1.73	2.41	1.56	1.51	1.37	1.29	1.40
2	.34	.30	.36	.40	.66	.77	.31	.55	.50	.37	.29	.31
3	.35	.36	.36	.48	.62	.63	2.80	.54	.50	.36	.28	.25
4	.77	.33	.45	.45	.64	.72	.36	.56	.50	.36	.28	.25
5	.55	.30	.36	.40	.59	.68	.17	.57	.49	.41	.28	.25
6	1.55	1.29	1.52	1.46	1.55	2.41	1.99	1.64	1.48	1.38	1.31	1.29
7	.44	.28	.57	.46	2.09	1.99	.90	.59	.47	.38	.47	.25
8	.39	.27	.74	.41	1.92	.87	.84	.57	.46	.39	.45	3.83
9	.40	.27	.64	.34	.81	.84	.84	.58	.45	.37	.41	2.04
10	.37	.34	.78	.36	.74	.80	.94	.59	.44	.36	.44	1.65
11	1.49	1.31	1.69	1.34	1.65	1.75	1.90	1.57	1.43	1.36	1.42	1.54
12	.44	.25	.56	.33	.60	.70	.80	.57	.47	.38	.45	.51
13	.47	.24	.53	.32	.97	.64	.81	.56	.43	.35	.56	.43
14	.48	.24	.50	.39	.86	.65	2.21	.55	.45	.35	.50	.40
15	.40	.24	.47	.35	.70	.70	.09	.55	.43	.35	.52	.41
16	1.41	1.25	1.41	1.32	1.81	1.63	2.02	1.64	1.45	1.36	1.48	1.37
17	.44	.34	.42	.49	.92	.61	.06	.56	.48	.33	.44	.36
18	.37	.41	.40	.51	.78	.60	1.94	.55	.50	.32	.50	.38
19	.34	.75	.40	.45	.68	.61	.91	.55	.45	.31	.50	.38
20	.33	.54	.40	.40	.61	.66	.87	.59	.42	.31	.49	.37
21	1.32	1.44	1.40	1.37	2.07	2.02	1.83	1.56	1.41	1.32	1.45	1.35
22	.32	.39	.44	.46	1.79	1.86	.80	.55	.45	.31	.35	.33
23	.30	.35	.42	.43	.73	.76	.75	.54	.44	.30	.34	.32
24	.39	.34	.41	.37	.92	.70	.80	.61	.40	.30	.38	.38
25	.40	.34	.37	.37	2.24	.68	.75	.57	.40	.30	.44	.64
26	1.55	1.33	1.35	1.36	1.92	1.99	1.69	1.60	1.41	1.30	1.40	1.53
27	.49	.34	.37	.36	.78	2.13	.65	.54	.42	.30	.27	.68
28	.45	.32	.45	.36	.70	.13	.63	.52	.40	.29	.32	.61
29	.41	.31	.38	.44	.65	.10	.61	.50	.38	.28	–	.54
30	.41	.32	.35	.48	.61	.58	.59	.53	.36	.29	–	.47
31	–	.31	–	.53	.70	–	.58	–	.37	.29	–	.44
Mean	1.42	1.34	1.46	1.40	1.77	1.83	1.94	1.56	1.44	1.34	1.40	1.51
Max.	1.77	1.75	1.78	1.53	2.24	2.58	2.80	1.64	1.51	1.41	1.56	3.83
Min.	1.30	1.24	1.34	1.32	1.55	1.60	1.58	1.50	1.37	1.28	1.27	1.25

WATER YEAR 1972 : Max. 3.83 m. Min. 1.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.25	0.40	0.22	0.28	1.72	3.05	21	1.22	0.87	0.31	0.09	0.40
2	0.22	0.10	0.28	0.40	2.16	3.65	17	1.15	0.80	0.31	0.09	0.13
3	0.25	0.28	0.28	0.72	1.72	1.83	38	1.08	0.80	0.28	0.08	0.05
4	3.65	0.19	0.60	0.60	1.94	2.90	19	1.22	0.80	0.28	0.08	0.05
5	1.15	0.10	0.28	0.40	1.43	2.38	12	1.29	0.76	0.44	0.08	0.05
6	1.55	0.09	0.94	0.64	1.15	21	7.79	1.94	0.72	0.34	0.13	0.09
7	0.56	0.08	1.29	0.64	10	7.79	5.90	1.43	0.68	0.34	0.68	0.05
8	0.37	0.07	3.20	0.44	6.32	5.36	4.82	1.29	0.64	0.37	0.60	136 *
9	0.40	0.07	1.94	0.22	4.28	4.82	4.82	1.36	0.60	0.31	0.44	10 *
10	0.31	0.22	3.80	0.28	3.20	4.10	6.74	1.43	0.56	0.28	0.56	2.33 *
11	0.76	0.13	2.49	0.22	2.05	3.35	5.90	1.29	0.52	0.28	0.48	1.08
12	0.56	0.05	1.22	0.19	1.50	2.60	4.10	1.29	0.68	0.34	0.60	0.87
13	0.68	0.04	1.01	0.16	7.37	1.94	4.28	1.22	0.52	0.25	1.22	0.52
14	0.72	0.04	0.80	0.37	5.18	2.05	14	1.15	0.60	0.25	0.80	0.40
15	0.40	0.04	0.68	0.25	2.60	2.60	10	1.15	0.52	0.25	0.94	0.44
16	0.44	0.05	0.44	0.16	4.28	1.83	8.50	1.94	0.60	0.28	0.72	0.31
17	0.56	0.22	0.48	0.76	6.32	1.61	9.50	1.22	0.72	0.19	0.56	0.28
18	0.31	0.44	0.40	0.87	3.80	1.50	6.74	1.15	0.80	0.16	0.80	0.34
19	0.22	3.35	0.40	0.60	2.38	1.61	6.11	1.15	0.60	0.13	0.80	0.34
20	0.19	1.08	0.40	0.40	1.61	2.16	5.36	1.43	0.48	0.13	0.76	0.31
21	0.16	0.56	0.40	0.31	9.75	8.50	4.64	1.22	0.44	0.16	0.60	0.25
22	0.16	0.37	0.56	0.64	3.95	5.18	4.10	1.15	0.60	0.13	0.25	0.19
23	0.10	0.25	0.48	0.52	3.05	3.50	3.35	1.08	0.56	0.10	0.22	0.16
24	0.37	0.22	0.44	0.31	6.32	2.60	4.10	1.61	0.40	0.10	0.34	0.34
25	0.40	0.22	0.31	0.31	15	2.38	3.35	1.29	0.40	0.10	0.56	1.94
26	1.15	0.19	0.25	0.28	6.82	7.79	2.49	1.50	0.44	0.10	0.40	1.01
27	0.76	0.22	0.31	0.28	3.80	11	2.05	1.08	0.48	0.10	0.07	2.38
28	0.60	0.16	0.60	0.28	2.60	11	1.33	0.94	0.40	0.09	0.16	1.61
29	0.44	0.13	0.34	0.56	2.05	10	1.61	0.80	0.34	0.08	–	1.08
30	0.44	0.16	0.25	0.72	1.61	28	1.43	1.01	0.34	0.09	–	0.68
31	–	0.13	–	1.01	2.60	–	1.36	–	0.31	0.09	–	0.56
Total	18.13	9.65	25.09	13.82	128.06	168.08	241.87	38.08	17.98	6.66	13.11	164.24
Mean	0.60	0.311	0.836	0.445	4.13	5.60	7.80	1.27	0.580	0.21	0.468	5.30
Max.	3.65	3.35	3.80	1.01	15	28	38	1.94	0.87	0.44	1.22	136
Min.	0.10	0.04	0.22	0.16	1.15	1.50	1.36	0.80	0.31	0.08	0.07	0.05
Runoff - mcm.	1.566	0.334	2.168	1.194	11.064	14.522	20.897	3.290	1.553	0.575	1.133	14.190

WATER YEAR 1972 : Max. 136 Min. 0.04 Mean 2.31 Annual Runoff 72.988 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Mar.8	09.00	5.90	350				

NAN RIVER BASIN

Lam Nam Than at Ban Phrao, Phitsanulok (N29)

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 50 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.

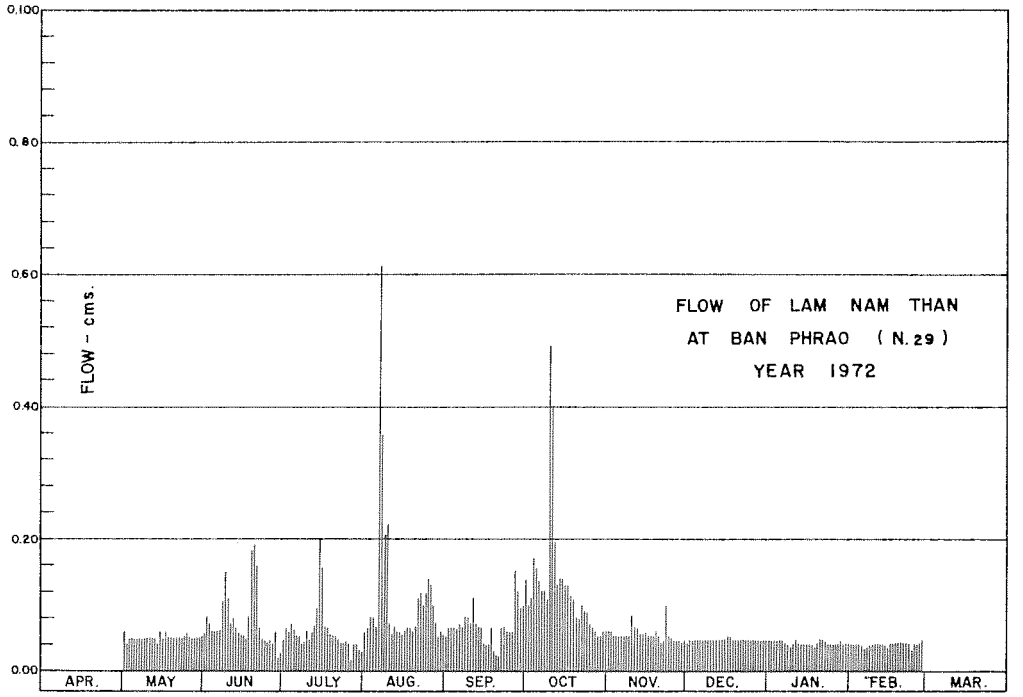
General Description: Records fair. Stage-discharge relation defined by 60 discharge measurements made in 1972.

Remarks: No gage height and discharge records on period April 1-30, and March 1-31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.48	0.48	0.47	0.48	0.47	0.57	0.48	0.45	0.46	0.45	
2		.45	.51	.49	.49	.49	.53	.48	.46	.46	.45	
3		.47	.50	.48	.51	.49	.55	.47	.46	.46	.45	
4		.47	.48	.50	.51	.49	.60	.47	.46	.46	.45	
5		.47	.48	.48	.49	.49	.58	.47	.46	.46	.45	
6		0.47	0.48	0.47	0.49	0.50	0.56	0.47	0.46	0.46	0.44	
7		.47	.49	.47	.84	.49	.55	.47	.46	.45	.44	
8		.47	.54	.45	.62	.51	.54	.47	.46	.45	.45	
9		.46	.58	.46	.64	.51	.54	.47	.46	.44	.45	
10		.47	.53	.48	.54	.50	.78	.51	.46	.45	.45	
11		0.47	0.50	0.47	0.50	0.54	0.65	0.49	0.46	0.46	0.45	
12		.47	.51	.48	.47	.50	.60	.49	.46	.45	.45	
13		.47	.49	.50	.49	.49	.56	.48	.46	.45	.45	
14		.46	.48	.56	.48	.49	.57	.47	.46	.45	.45	
15		.48	.47	.62	.47	.45	.56	.48	.46	.45	.44	
16		0.47	0.47	0.53	0.48	0.45	0.56	0.47	0.47	0.45	0.45	
17		.48	.46	.49	.49	.45	.56	.47	.47	.45	.45	
18		.46	.48	.49	.49	.49	.54	.47	.46	.44	.45	
19		.46	.59	.47	.48	.43	.54	.48	.46	.45	.45	
20		.46	.62	.47	.49	.42	.51	.47	.46	.46	.45	
21		0.47	0.55	0.47	0.54	0.42	0.51	0.45	0.46	0.46	0.45	
22		.47	.48	.46	.55	.49	.53	.45	.46	.46	.45	
23		.47	.46	.45	.53	.49	.52	.53	.46	.45	.45	
24		.47	.46	.45	.55	.48	.52	.47	.46	.45	.43	
25		.48	.45	.46	.57	.48	.50	.47	.46	.45	.45	
26		0.47	0.46	0.45	0.56	0.48	0.49	0.46	0.46	0.45	0.45	
27		.47	.45	.41	.52	.58	.48	.46	.46	.45	.45	
28		.47	.48	.45	.50	.54	.47	.46	.46	.46	.46	
29		.46	.43	.45	.47	.52	.47	.45	.46	.45	-	
30		.46	.44	.44	.48	.53	.48	.46	.46	.45	-	
31		.46	-	.44	.47	-	.48	-	.46	.45	-	
Mean		0.47	0.48	0.48	0.52	0.49	0.54	0.47	0.46	0.45	0.44	
Max.		0.48	0.62	0.62	0.84	0.58	0.78	0.53	0.47	0.46	0.46	
Min.		0.45	0.43	0.41	0.47	0.42	0.47	0.45	0.45	0.44	0.43	

WATER YEAR 1972 : Max. 0.84 m. Min. 0.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.060	0.060	0.053	0.060	0.053	0.143	0.060	0.041	0.047	0.041	
2		0.041	0.082	0.066	0.066	0.066	0.102	0.060	0.047	0.047	0.041	
3		0.053	0.072	0.060	0.082	0.066	0.122	0.053	0.047	0.047	0.041	
4		0.053	0.060	0.072	0.082	0.066	0.173	0.053	0.047	0.047	0.041	
5		0.053	0.060	0.060	0.066	0.066	0.153	0.053	0.047	0.047	0.041	
6		0.053	0.060	0.053	0.066	0.072	0.133	0.053	0.047	0.047	0.035	
7		0.053	0.066	0.053	0.606	0.066	0.122	0.053	0.047	0.041	0.035	
8		0.053	0.112	0.041	0.198	0.082	0.112	0.053	0.047	0.041	0.041	
9		0.047	0.153	0.047	0.224	0.082	0.112	0.053	0.047	0.035	0.041	
10		0.053	0.102	0.060	0.224	0.072	0.494	0.082	0.047	0.041	0.041	
11		0.053	0.072	0.047	0.072	0.112	0.236	0.066	0.047	0.047	0.041	
12		0.053	0.082	0.060	0.053	0.072	0.173	0.066	0.047	0.041	0.041	
13		0.053	0.066	0.072	0.066	0.066	0.133	0.060	0.047	0.041	0.041	
14		0.047	0.060	0.133	0.060	0.066	0.143	0.053	0.047	0.041	0.041	
15		0.060	0.053	0.198	0.053	0.041	0.143	0.060	0.047	0.041	0.035	
16		0.053	0.053	0.102	0.060	0.041	0.133	0.053	0.053	0.041	0.041	
17		0.060	0.047	0.066	0.066	0.041	0.133	0.053	0.053	0.041	0.041	
18		0.047	0.060	0.066	0.066	0.066	0.112	0.053	0.047	0.035	0.041	
19		0.047	0.163	0.053	0.060	0.029	0.112	0.060	0.047	0.041	0.041	
20		0.047	0.198	0.053	0.066	0.022	0.082	0.053	0.047	0.047	0.041	
21		0.053	0.122	0.053	0.112	0.022	0.082	0.041	0.047	0.047	0.041	
22		0.053	0.060	0.047	0.122	0.066	0.102	0.041	0.047	0.047	0.041	
23		0.053	0.047	0.041	0.102	0.066	0.092	0.102	0.047	0.041	0.041	
24		0.053	0.047	0.041	0.122	0.060	0.092	0.053	0.047	0.041	0.029	
25		0.060	0.041	0.047	0.143	0.060	0.072	0.053	0.047	0.041	0.041	
26		0.053	0.047	0.041	0.133	0.060	0.066	0.047	0.047	0.041	0.041	
27		0.053	0.041	0.016	0.092	0.153	0.060	0.047	0.047	0.041	0.041	
28		0.053	0.060	0.041	0.072	0.112	0.053	0.047	0.047	0.047	0.047	
29		0.047	0.023	0.041	0.053	0.092	0.053	0.041	0.047	0.041	–	
30		0.047	0.035	0.035	0.060	0.102	0.060	0.047	0.047	0.041	–	
31		0.047	–	0.035	0.053	–	0.060	–	0.047	0.041	–	
Total		1.612	2.194	1.871	3.360	2.040	3.858	1.669	1.463	1.325	1.124	
Mean		0.052	0.073	0.060	0.108	0.068	0.124	0.056	0.079	0.043	0.040	
Max.		0.060	0.198	0.198	0.606	0.153	0.494	0.102	0.053	0.047	0.047	
Min.		0.041	0.023	0.016	0.053	0.022	0.053	0.041	0.041	0.035	0.029	
Runoff - MCM.		0.139	0.189	0.162	0.290	0.176	0.333	0.144	0.126	0.114	0.097	

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

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.7	06.00	1.04	1.10				

NAN RIVER BASIN

Nam Pat River at Ban Wang Bang, Uttaradit (N33)

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

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.

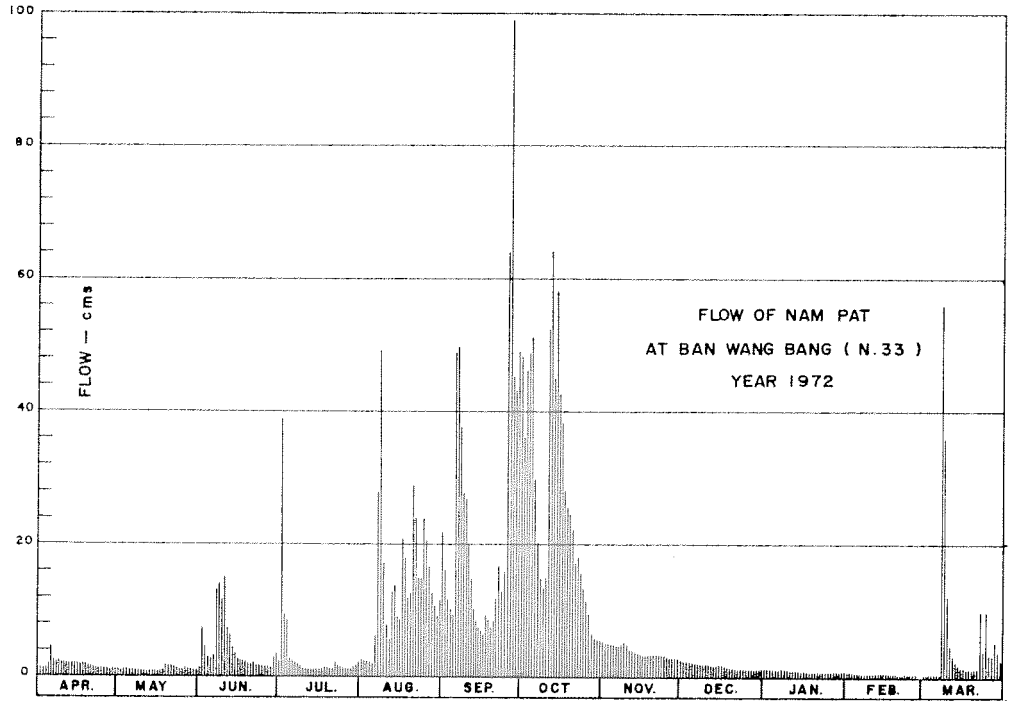
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 254 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	79.65	79.64	79.66	79.85	79.89	80.89	81.45	80.15	79.87	79.66	79.57	79.50
2	.65	.63	80.27	81.30	.85	.71	.24	.11	.85	.65	.58	.50
3	.64	.63	.07	80.42	.87	.55	.42	.11	.83	.65	.57	.51
4	.74	.62	79.91	.01	.84	.50	.45	.09	.82	.65	.56	.51
5	80.04	.61	.83	79.91	.82	.42	.50	.09	.82	.65	.55	.52
6	79.87	79.62	79.91	79.85	79.80	81.47	81.10	80.07	79.80	79.63	79.54	79.51
7	.79	.59	80.61	.80	80.42	.48	80.88	.08	.79	.65	.54	.49
8	.84	.59	.63	.77	81.47	.28	.72	.11	.78	.64	.54	81.57
9	.81	.59	.56	.74	80.93	.04	.60	.15	.78	.64	.54	.46
10	.80	.59	.69	.72	.58	.02	.68	.13	.77	.64	.54	80.58
11	79.76	79.59	80.28	79.71	80.31	80.88	81.28	80.03	79.76	79.63	79.54	80.09
12	.75	.58	.29	.69	.17	.71	.69	.00	.75	.62	.54	79.91
13	.79	.58	.10	.69	.62	.51	.40	79.98	.74	.62	.53	.81
14	.79	.58	79.99	.69	.65	.40	.60	.97	.75	.62	.53	.76
15	.76	.57	.91	.69	.40	.32	.36	.96	.77	.60	.54	.72
16	79.74	79.58	79.86	79.69	80.39	80.26	81.35	79.94	79.74	79.60	79.55	79.70
17	.75	.61	.83	.70	.88	.22	.08	.93	.73	.60	.54	.68
18	.77	.61	.80	.71	.78	.43	.01	.93	.72	.59	.54	.68
19	.74	.73	.76	.69	.56	.35	80.97	.94	.70	.59	.53	.67
20	.72	.73	.75	.68	.61	.28	.96	.94	.70	.59	.53	.66
21	79.69	79.74	79.76	79.63	81.08	80.42	80.86	79.95	79.69	79.59	79.50	79.64
22	.68	.69	.75	.84	80.94	.64	.76	.95	.69	.57	.49	.68
23	.67	.67	.73	.77	.68	.76	.77	.94	.67	.57	.50	80.46
24	.65	.64	.71	.74	.70	.60	.70	.93	.68	.57	.50	79.99
25	.65	.64	.70	.73	.94	.72	.58	.92	.68	.57	.50	80.47
26	79.62	79.68	79.69	79.70	80.88	81.66	80.51	79.92	79.67	79.57	79.50	79.95
27	.63	.64	.68	.69	.77	82.08	.37	.91	.67	.58	.53	.91
28	.67	.63	.67	.69	.61	81.40	.21	.90	.67	.58	.52	80.13
29	.65	.62	.88	.71	.49	.37	.18	.89	.67	.57		.06
30	.64	.62	.97	.77	.41	.47	.16	.89	.67	.56		79.89
31		.61		.81	.56		.17		.67	.57		.80
Mean	79.73	79.63	79.97	79.82	80.51	80.83	80.93	80.00	79.74	79.61	79.53	79.93
Max.	80.04	79.74	80.69	81.30	81.47	82.08	81.69	80.15	79.87	79.66	79.58	81.57
Min.	79.62	79.57	79.66	79.68	79.80	80.22	80.16	79.89	79.67	79.56	79.49	79.49

WATER YEAR 1972 : Max. 82.08 m. Min. 79.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.30	1.24	1.36	2.65	2.93	22	48	5.60	2.79	1.36	0.85	0.50
2	1.30	1.18	7.11	39	2.65	16	36	5.12	2.65	1.30	0.90	0.50
3	1.24	1.18	4.70	9.40	2.79	12	46	5.12	2.51	1.30	0.85	0.55
4	1.88	1.12	3.10	4.10	2.58	11	48	4.90	2.44	1.30	0.80	0.55
5	4.40	1.06	2.51	3.10	2.44	9.40	51	4.90	2.44	1.30	0.75	0.60
6	2.79	1.12	3.10	2.65	2.30	49	30	4.70	2.30	1.18	0.70	0.55
7	2.23	0.95	13	2.30	9.40	50	21	4.80	2.23	1.30	0.70	0.45
8	2.58	0.95	14	2.09	49	38	16	5.12	2.16	1.24	0.70	56
9	2.37	0.95	12	1.88	23	28	13	5.60	2.16	1.24	0.70	49
10	2.30	0.95	15	1.74	13	27	15	5.36	2.09	1.24	0.70	13
11	2.02	0.95	7.24	1.67	7.65	21	38	4.30	2.02	1.18	0.70	4.90
12	1.95	0.90	7.37	1.54	5.84	16	64	4.00	1.95	1.12	0.70	3.10
13	2.23	0.90	5.00	1.54	13	11	45	3.80	1.88	1.12	0.65	2.37
14	2.23	0.90	3.90	1.54	14	9.00	58	3.70	1.95	1.12	0.65	2.02
15	2.02	0.85	3.10	1.54	9.00	7.80	43	3.60	2.09	1.00	0.70	1.74
16	1.88	0.90	2.72	1.54	8.85	6.98	42	3.40	1.88	1.00	0.75	1.60
17	1.95	1.06	2.51	1.60	21	6.46	29	3.30	1.81	1.00	0.70	1.48
18	2.09	1.06	2.30	1.67	18	9.60	26	3.30	1.74	0.95	0.70	1.48
19	1.88	1.81	2.02	1.54	12	8.25	25	3.40	1.60	0.95	0.65	1.42
20	1.74	1.81	1.95	1.48	13	7.24	24	3.40	1.60	0.95	0.65	1.36
21	1.54	1.88	2.02	1.54	29	9.40	21	3.50	1.54	0.95	0.50	1.24
22	1.48	1.54	1.95	2.58	24	14	17	3.50	1.54	0.85	0.45	1.48
23	1.42	1.42	1.81	2.09	15	17	18	3.40	1.42	0.85	0.50	10
24	1.30	1.24	1.67	1.88	15	13	15	3.30	1.48	0.85	0.50	3.90
25	1.30	1.24	1.60	1.81	24	16	13	3.20	1.48	0.85	0.50	10
26	1.12	1.48	1.54	1.60	21	62	11	3.20	1.42	0.85	0.50	3.50
27	1.18	1.24	1.48	1.54	18	99	8.55	3.10	1.42	0.90	0.65	3.10
28	1.42	1.18	1.42	1.54	13	45	6.33	3.00	1.42	0.90	0.60	5.36
29	1.30	1.12	2.86	1.67	11	43	5.96	2.93	1.42	0.85		4.60
30	1.24	1.12	3.70	2.09	9.20	49	5.72	2.93	1.42	0.80		2.93
31		1.06		2.37	12		5.84		1.42	0.85		2.30
Total	55.68	36.36	134.04	105.28	423.63	733.13	845.40	119.48	58.27	32.65	18.70	191.58
Mean	1.86	1.17	4.47	3.40	13.7	24.4	27.3	3.98	1.88	1.05	0.67	6.18
Max.	4.40	1.88	15	39	49	99	64	5.60	2.79	1.36	0.90	56
Min.	1.12	0.85	1.36	1.48	2.30	6.46	5.72	2.93	1.42	0.80	0.45	0.45
Runoff – mcm.	4.811	3.141	11.581	9.096	36.602	63.342	73.042	10.323	5.034	2.821	1.616	16.552

WATER YEAR 1972 : Max. 99.0 Min. 0.45 Mean 7.54 Annual Runoff 237.963 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.27	04.00	82.51	151				

NAN RIVER BASIN

Nan River at Kaeng Sarang, Nan (N35)

Location: Lat. 18°-23'-46" 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: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

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

Period of Available Gage Records: 1966 to date.

Rating Operation:

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

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

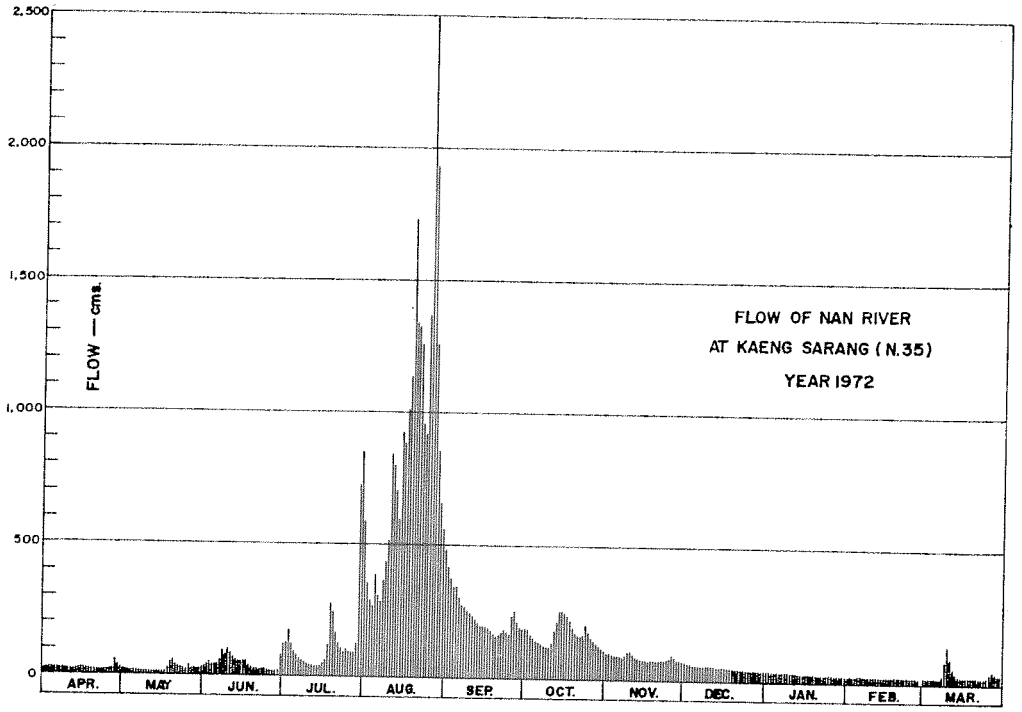
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 194 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.79	0.84	0.96	1.52	3.61	3.43	1.86	1.42	1.18	0.97	0.87	0.79
2	.81	.82	1.00	.52	2.65	.12	.84	.39	.17	.97	.87	.79
3	.87	.79	.09	.82	.33	2.90	.74	.37	.16	.97	.86	.79
4	.88	.76	.01	.53	.38	.78	.67	.35	.15	.96	.86	.79
5	.89	.75	.00	.39	3.02	.81	.64	.34	.13	.96	.86	.79
6	0.85	0.75	1.00	1.30	2.48	2.53	1.59	1.32	1.12	0.96	0.86	0.79
7	.84	.74	.09	.23	.41	.37	.55	.32	.11	.96	.86	.79
8	.85	.73	.35	.16	.86	.31	.52	.34	.11	.95	.85	.92
9	.85	.72	.24	.12	3.36	.29	.51	.43	.10	.95	.85	1.29
10	.84	.72	.44	.06	.72	.26	.49	.42	.10	.95	.85	.66
11	0.82	0.73	1.30	1.04	4.75	2.16	1.54	1.34	1.10	0.94	0.84	1.21
12	.82	.72	.22	.02	.47	.07	.84	.31	.09	.94	.84	.03
13	.82	.72	.18	.00	.22	1.95	2.02	.29	.08	.93	.84	0.94
14	.86	.72	.11	0.98	3.82	.88	.30	.27	.07	.93	.84	.90
15	.89	.72	.09	1.01	5.01	.88	.29	.25	.09	.93	.84	.88
16	0.87	0.72	1.13	1.03	4.87	1.91	2.15	1.24	1.07	0.92	0.83	0.87
17	.84	.75	.03	.08	5.42	.86	.11	.24	.05	.92	.83	.86
18	.82	.90	0.97	.43	.76	.83	.12	.25	.05	.92	.83	.85
19	.80	1.08	.92	2.42	7.12	.75	1.84	.24	.04	.91	.82	.84
20	.81	.17	.88	.24	6.19	.71	.74	.22	.04	.90	.82	.84
21	0.80	0.98	0.87	1.75	6.16	1.70	1.68	1.24	1.02	0.90	0.81	0.83
22	.78	.95	.89	.56	5.87	.78	.69	.25	.02	.90	.81	.82
23	.77	.90	.89	.40	4.84	.81	.77	.24	.01	.89	.81	.83
24	.77	.85	.89	.36	5.07	.77	.95	.23	.01	.89	.81	.84
25	.79	.82	.85	.42	7.85	.72	.79	.29	.00	.89	.80	.90
26	0.81	1.01	0.83	1.39	8.69	2.13	1.67	1.36	1.00	0.88	0.80	1.02
27	.80	0.88	.81	.34	7.28	.26	.62	.30	0.99	.88	.79	.03
28	1.08	.91	.81	.35	5.15	1.99	.58	.26	.99	.88	.79	0.99
29	0.94	.87	.82	.61	4.30	.87	.53	.23	.99	.87	-	.96
30	.87	.83	1.19	4.30	3.89	.86	.48	.20	.98	.87	-	.91
31	-	.90	-	.76	.69	-	.44	-	.98	.87	-	.87
Mean	0.84	0.83	0.99	1.58	4.62	2.16	1.76	1.30	1.06	0.92	0.83	0.92
Max.	1.08	1.17	1.44	4.76	8.69	3.43	2.30	1.43	1.18	0.97	0.87	1.66
Min.	0.77	0.72	0.81	0.98	2.33	1.70	1.44	1.20	0.98	0.87	0.79	0.79

WATER YEAR 1972 : Max. 8.69 m. Min. 0.72 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	24	36	123	529	484	187	105	66	37	26	19
2	21	22	41	123	318	413	183	99	65	37	26	19
3	26	19	54	179	264	366	164	96	63	37	25	19
4	27	16	42	124	272	342	150	92	62	36	25	19
5	28	15	41	99	391	349	145	91	59	36	25	19
6	24	15	41	84	289	297	135	87	58	36	25	19
7	24	15	54	73	277	270	128	87	56	36	25	19
8	24	14	92	63	358	261	123	91	56	35	24	31
9	24	13	75	58	468	257	121	106	55	35	24	82
10	24	13	108	49	557	253	115	105	55	35	24	148
11	22	14	84	47	847	238	126	91	55	34	24	70
12	22	13	72	44	764	225	183	86	54	34	24	45
13	22	13	66	41	693	205	219	82	52	33	24	34
14	25	13	56	39	583	191	259	79	51	33	24	29
15	28	13	54	42	927	191	257	76	54	33	24	27
16	26	13	59	45	884	197	236	75	51	31	23	26
17	24	15	45	52	1,062	187	230	75	48	31	23	25
18	22	29	37	106	1,181	181	232	76	48	31	23	24
19	20	52	31	278	1,728	165	183	75	47	30	22	24
20	21	65	27	250	1,340	158	164	72	47	29	22	24
21	20	39	26	165	1,328	156	152	75	44	29	21	23
22	18	35	28	130	1,220	171	154	76	44	29	21	22
23	17	29	28	101	874	177	169	75	42	28	21	23
24	17	24	28	94	946	169	205	73	42	28	21	24
25	19	22	24	105	2,077	160	173	82	41	28	20	29
26	21	42	23	99	2,515	233	150	94	41	27	20	44
27	20	27	21	91	1,800	253	141	84	40	27	19	45
28	52	30	21	92	972	214	133	78	40	27	19	40
29	34	26	22	139	715	189	124	73	40	26	–	36
30	26	23	68	715	602	187	115	69	39	26	–	30
31	–	29	–	850	549	–	108	–	39	26	–	26
Total	717	732	1,404	4,500	27,330	7,139	5,164	2,525	1,554	980	644	1,064
Mean	23.9	23.6	46.8	145	882	238	166	84.2	50.1	31.6	23.0	34.3
Max.	52	65	108	850	2,515	484	259	106	66	37	26	148
Min.	17	13	21	39	264	156	108	69	39	26	19	19
Runoff - mcm.	61.949	63.245	121.306	388.800	2,361.312	616.810	446.170	218.160	134.266	84.672	55.642	91.930

WATER YEAR 1972 : Max. 2,515 Min. 13 Mean 147 Annual Runoff 4,644.259 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.26	03.00	8.78	2,565				

NAN RIVER BASIN

Khwae Noi at Tambon Nong Krathao, Phitsanulok (N36)

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: Stable, no shifting adjustment for flow computation.

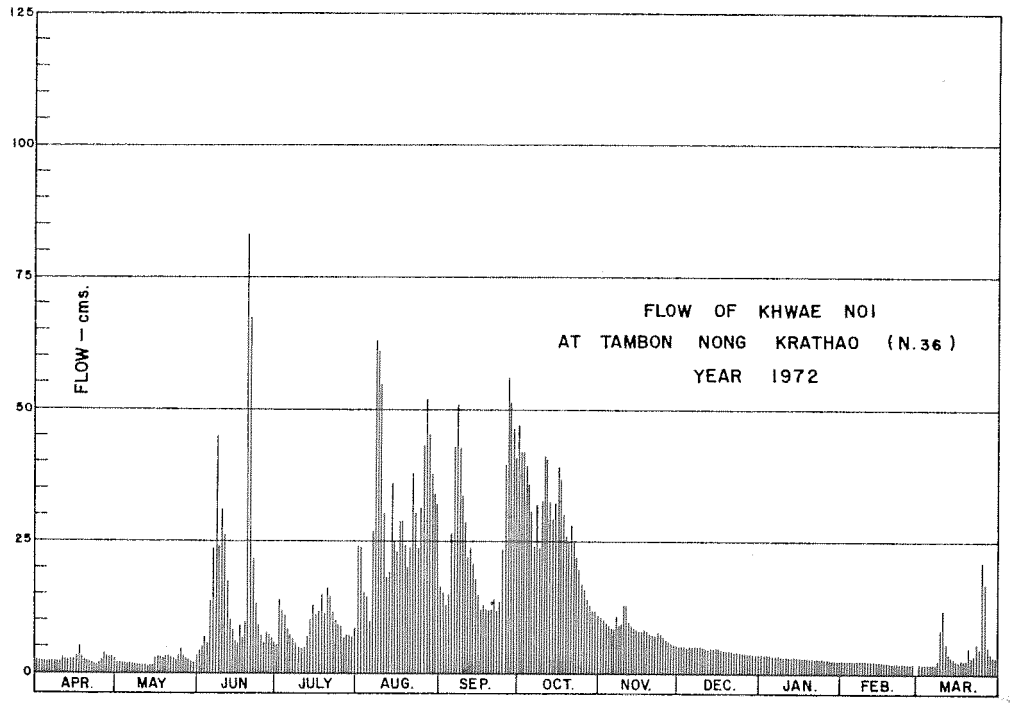
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 192 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.69	0.70	0.92	1.08	2.32	1.88	3.51	1.49	1.08	0.87	0.72	0.64
2	.68	.68	.99	.69	.31	.86	.28	.44	.06	.86	.72	.64
3	.68	.66	1.18	.59	1.84	.71	.26	.40	.03	.86	.72	.64
4	.67	.65	.20	.49	.76	.68	.10	.36	.01	.85	.72	.64
5	.68	.65	.07	.28	.56	.91	2.90	.33	.01	.84	.72	.64
6	0.68	0.63	1.88	1.20	1.42	3.30	2.58	1.31	1.02	0.84	0.72	0.65
7	.68	.63	2.20	.16	2.68	.33	.33	.48	.02	.83	.72	.64
8	.68	.62	3.43	.09	4.20	.68	.75	.35	.01	.83	.71	.66
9	.87	.61	2.31	.02	.15	.19	.33	.37	.01	.83	.71	1.19
10	.81	.60	2.73	0.97	3.14	2.83	.84	.68	0.99	.82	.70	.56
11	0.72	0.60	2.42	0.99	2.40	2.54	3.22	1.64	0.99	0.82	0.70	1.16
12	.70	.61	1.90	1.07	1.99	.24	.17	.44	.99	.81	.70	0.91
13	.73	.60	.53	.37	2.08	.32	2.74	.34	.98	.81	.69	.81
14	.77	.60	.26	.50	.95	.04	.62	.29	.99	.80	.69	.75
15	.76	.64	.12	.65	.41	1.82	.79	.27	.99	.80	.69	.72
16	1.06	0.80	1.03	1.49	2.27	1.69	3.13	1.28	0.96	0.79	0.69	0.70
17	0.84	.81	.35	.56	.59	.60	2.97	.26	.95	.78	.68	.74
18	.75	.79	.15	.81	.58	.66	.61	.28	.94	.78	.68	.74
19	.71	.75	.46	.57	.39	.59	.44	.25	.93	.78	.68	.72
20	.68	.82	5.06	.52	.09	.56	.40	.22	.92	.77	.67	.98
21	0.67	0.83	4.33	1.83	2.41	1.65	2.57	1.20	0.92	0.77	0.67	0.77
22	.65	.77	2.28	.57	3.04	.72	.30	.21	.92	.77	.67	.92
23	.64	.73	1.63	.53	2.59	.59	.19	.26	.91	.76	.66	1.09
24	.65	.71	.36	.38	.30	.70	.08	.20	.91	.75	.65	0.97
25	.73	1.02	.18	.35	3.27	2.60	1.93	.17	.90	.75	.65	2.14
26	0.90	0.88	1.09	1.23	3.34	3.28	1.82	1.16	0.89	0.75	0.65	1.44
27	.79	.75	.25	.16	2.72	.90	.73	.14	.88	.74	.65	1.00
28	.89	.74	.19	.22	.31	.70	.68	.10	.88	.74	.64	0.86
29	.81	.69	.16	.20	.03	.35	.60	.09	.88	.73	–	.79
30	.74	.66	.07	.15	1.83	.22	.55	.08	.88	.73	–	.75
31	–	.65	–	.32	.74	–	.53	–	.87	.73	–	.73
Mean	0.74	0.71	1.88	1.37	2.68	2.42	2.54	1.30	0.96	0.79	0.69	0.89
Max.	1.06	1.02	5.06	1.83	4.20	3.90	3.51	1.68	1.08	0.87	0.72	2.14
Min.	0.64	0.60	0.92	0.97	1.42	1.56	1.53	1.08	0.87	0.73	0.64	0.64

WATER YEAR 1972 : Max. 5.06 m. Min. 0.60 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.32	2.40	4.20	5.80	24	17	47	11	5.80	3.76	2.56	1.92
2	2.24	2.24	4.90	14	24	16	42	10	5.60	3.68	2.56	1.92
3	2.24	2.08	6.96	12	16	14	42	9.60	5.30	3.68	2.56	1.92
4	2.16	2.00	7.20	11	15	13	39	9.12	5.10	3.60	2.56	1.92
5	2.24	2.00	5.70	8.16	12	17	35	8.76	5.10	3.52	2.56	1.92
6	2.24	1.84	17	7.20	9.88	43	29	8.52	5.20	3.52	2.56	2.00
7	2.24	1.84	22	6.72	30	43	24	11	5.20	3.44	2.56	1.92
8	2.24	1.76	45	5.90	63	51	32	9.00	5.10	3.44	2.48	2.08
9	2.16	1.68	24	5.20	61	41	24	9.24	5.10	3.44	2.48	7.08
10	3.28	1.60	31	4.70	40	33	34	13	4.90	3.36	2.40	12
11	2.56	1.60	26	4.90	25	28	41	13	4.90	3.36	2.40	6.72
12	2.40	1.68	17	5.70	18	22	40	10	4.90	3.28	2.40	4.10
13	2.64	1.60	11	9.24	20	24	32	8.88	4.80	3.28	2.32	3.28
14	2.96	1.60	7.92	11	36	19	29	8.28	4.90	3.20	2.32	2.80
15	2.88	1.92	6.24	13	25	16	33	8.04	4.90	3.20	2.32	2.56
16	5.60	3.20	5.30	11	23	14	39	8.16	4.60	3.12	2.32	2.40
17	3.52	3.28	9.00	12	29	12	36	7.92	4.50	3.04	2.24	2.72
18	2.80	3.12	6.60	15	29	13	29	8.16	4.40	3.04	2.24	2.72
19	2.48	2.80	10	12	25	12	26	7.80	4.30	3.04	2.24	2.56
20	2.24	3.36	83	11	20	12	25	7.44	4.20	2.96	2.16	4.80
21	2.16	3.44	66	16	25	13	28	7.20	4.20	2.96	2.16	2.96
22	2.00	2.96	23	12	38	14	24	7.32	4.20	2.96	2.16	4.20
23	1.92	2.64	13	11	29	12	21	7.92	4.10	2.88	2.08	5.90
24	2.00	2.48	9.12	9.36	24	14	20	7.20	4.10	2.80	2.00	4.70
25	2.64	5.20	6.96	9.00	42	29	17	6.84	4.00	2.80	2.00	21
26	4.00	3.84	5.90	7.56	44	42	16	6.72	3.92	2.80	2.00	16
27	3.12	2.80	7.80	6.72	52	56	14	6.48	3.84	2.72	2.00	5.00
28	3.92	2.72	7.08	7.44	43	51	13	6.00	3.84	2.72	1.92	3.68
29	3.28	2.32	6.72	7.20	37	44	12	5.90	3.84	2.64	–	3.12
30	2.72	2.08	5.70	6.60	33	41	12	5.80	3.84	2.64	–	2.80
31	–	2.00	–	8.64	32	–	11	–	3.76	2.64	–	2.64
Total	81.20	76.08	501.30	287.04	943.88	776.00	866.00	253.30	142.44	97.52	64.56	135.34
Mean	2.70	2.45	16.71	9.26	30.4	25.9	27.9	8.44	4.59	3.14	2.30	4.27
Max.	5.60	5.20	83	.16	63	56	47	13	5.80	3.76	2.56	21
Min.	1.92	1.60	4.20	4.70	9.88	12	11	5.80	3.76	2.64	1.92	1.92
Runoff – mcm.	7.016	6.573	43.312	24.800	81.551	67.046	74.823	21.885	12.307	8.426	5.578	11.693

WATER YEAR 1972 : Max. 83 Min. 1.60 Mean 11.6 Annual Runoff 365.010 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
June 20	15.00	5.96	106				

NAN RIVER BASIN

Nan River at Thap Krit, Nakhon Sawan (N37)

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. N37

Location: near the top of vertical staff gage.
Elevation: + 7.121 m. (A.D.)

Gage Reading Frequency: 5-7 time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours.

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

Period of Available Gage Records: 1967 to date.

Rating Operation:

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

Stability of Channel Regimes: Unstable because of backwater effect, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

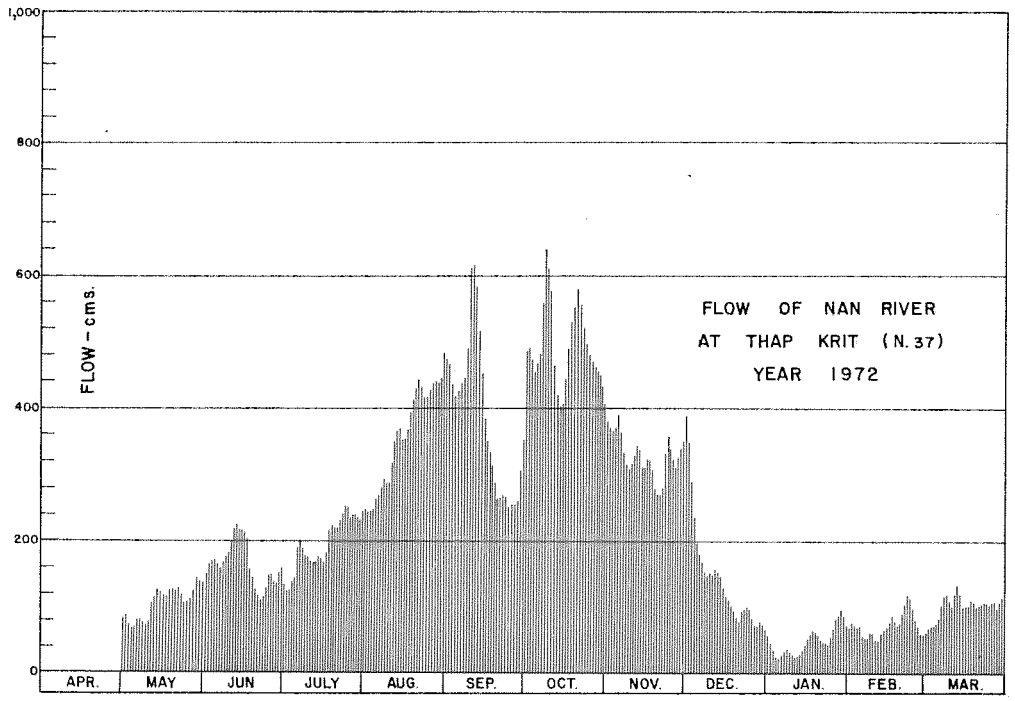
General Description: Records fair. Stage-discharge relation defined by 39 discharge measurements made in 1972.

Remarks: No gage height and discharge records on period April 1-30.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.93	1.35	1.32	1.91	2.91	2.98	2.52	2.56	0.73	0.83	0.74
2		.95	.45	.21	.89	.86	3.01	.48	.37	.62	.87	.79
3		.89	.49	.25	.90	.74	2.93	.48	.15	.52	.83	.84
4		.80	.49	.31	.94	.70	.85	.51	1.98	.41	.82	.84
5		.83	.50	.36	2.02	.74	.93	.58	.68	.38	.84	.86
6		0.91	1.46	1.61	2.03	2.77	3.06	2.50	1.55	0.40	0.75	0.96
7		.93	.43	.68	.10	.81	.39	.36	.48	.47	.69	1.09
8		.89	.48	.61	.14	.90	.59	.24	.39	.51	.70	.17
9		.84	.55	.54	.11	3.12	.48	.21	.35	.52	.77	.18
10		.85	.61	.52	.11	.48	.26	.26	.38	.46	.75	.08
11		0.97	1.69	1.51	2.30	3.50	3.00	2.32	1.36	0.39	0.67	1.05
12		1.15	.77	.48	.46	.31	2.76	.37	.41	.40	.66	.17
13		.16	.79	.49	.49	.10	.68	.35	.38	.43	.73	.27
14		.23	.76	.53	.49	2.86	.64	.23	.35	.47	.80	.16
15		.20	.74	.52	.41	.64	.76	.23	.27	.58	.81	.05
16		1.19	1.73	1.49	2.44	2.45	2.96	2.28	1.16	0.67	0.85	1.06
17		.15	.63	.58	.52	.33	3.14	.27	.12	.70	.96	.05
18		.21	.44	.76	.62	.21	.19	.21	.07	.78	.94	.13
19		.23	.32	.79	.72	.11	.29	.08	.02	.77	.87	.10
20		.23	.23	.78	.77	1.98	.36	.02	0.93	.72	.82	.04
21		1.21	1.16	1.77	2.81	1.99	3.31	2.01	0.89	0.66	0.94	1.06
22		.24	.13	.82	.74	2.02	.19	.08	1.00	.63	1.06	.08
23		.20	.15	.89	.69	.00	.07	.31	.03	.63	.18	.09
24		.09	.24	.94	.70	1.97	.03	.43	.05	.60	.18	.09
25		.11	.36	.93	.73	.92	2.97	.37	.02	.71	.10	.08
26		1.14	1.38	1.85	2.78	1.95	2.92	2.27	0.91	0.86	0.97	1.10
27		.18	.31	.87	.80	.92	.89	.22	.84	.93	.84	.09
28		.25	.29	.88	.79	2.02	.87	.29	.84	.96	.76	.03
29		.34	.41	.85	.77	.34	.83	.34	.89	1.02	-	.08
30		.31	.45	.84	.86	.69	.75	.46	.86	0.95	-	.15
31		.30	-	.90	.97	-	.63	-	.81	.83	-	.16
Mean		1.09	1.46	1.64	2.45	2.54	3.02	2.31	1.29	0.63	0.86	1.05
Max.		1.34	1.79	1.94	2.97	3.50	3.59	2.58	2.56	1.02	1.18	1.27
Min.		0.80	1.13	1.21	1.89	1.92	2.63	2.01	0.81	0.38	0.66	0.74

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



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		83	146	141	248	468	485	377	386	58	70	59
2		86	162	124	244	456	492	368	343	46	75	65
3		78	169	130	246	428	473	368	296	36	70	71
4		66	169	140	254	418	454	374	262	27	69	71
5		70	171	148	270	428	473	390	203	24	71	74
6		80	164	191	272	435	505	372	179	26	60	87
7		83	159	203	286	444	587	341	168	32	53	106
8		78	168	191	294	466	639	315	152	35	54	117
9		71	179	177	288	520	611	309	146	36	62	119
10		72	191	175	288	611	555	320	151	31	60	104
11		89	205	173	328	616	490	332	148	25	51	100
12		114	220	168	363	567	432	343	156	26	50	117
13		116	224	169	370	515	413	339	151	28	58	133
14		127	218	176	370	456	404	313	146	32	66	116
15		122	215	175	352	404	432	313	133	42	67	100
16		120	213	169	359	361	480	324	116	51	72	101
17		114	194	185	377	335	525	322	110	54	87	100
18		124	161	218	400	309	537	309	103	64	85	111
19		127	141	224	423	288	562	282	96	62	75	107
20		127	127	222	435	262	580	270	83	56	69	99
21		124	116	220	444	264	567	268	78	50	85	101
22		128	111	230	428	270	537	282	93	47	101	104
23		122	114	244	416	266	507	330	97	47	119	106
24		106	128	254	418	260	497	357	100	44	119	106
25		108	148	252	425	250	483	343	96	55	107	104
26		113	151	236	437	256	471	322	80	74	89	107
27		119	140	240	442	250	464	311	71	83	71	106
28		130	136	242	440	270	459	326	71	87	61	97
29		144	156	236	435	337	430	337	78	96	–	104
30		140	162	234	456	416	402	363	74	86	–	114
31		138	–	246	483	–	–	–	67	70	–	116
Total		3,319	4,958	6,133	11,291	11,626	15,395	9,920	4,433	1,530	2,076	3,122
Mean		107	165	198	364	387	497	331	143	49.3	74.1	101
Max.		144	224	254	483	616	639	390	386	96	119	133
Min.		66	111	124	244	250	402	268	67	24	50	59
Runoff - MCM.		286.762	428.371	529.891	975.542	1,004.486	1,330.128	857.088	383.011	132.192	179.366	269.741

WATER YEAR 1972 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.10	24.00	3.64	652				

CHAO PHYA RIVER BASIN

Chao Phya River at Nakhon Sawan, Nakhon Sawan (C.2)

Location: Lat. 15°-40'-15" N., Long. 100°-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./R.I.D.

Location: About 20 meters west of the gage site.
Elevation: + 25.628 m. (M.S.L.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 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 shifting adjustment for flow computation.

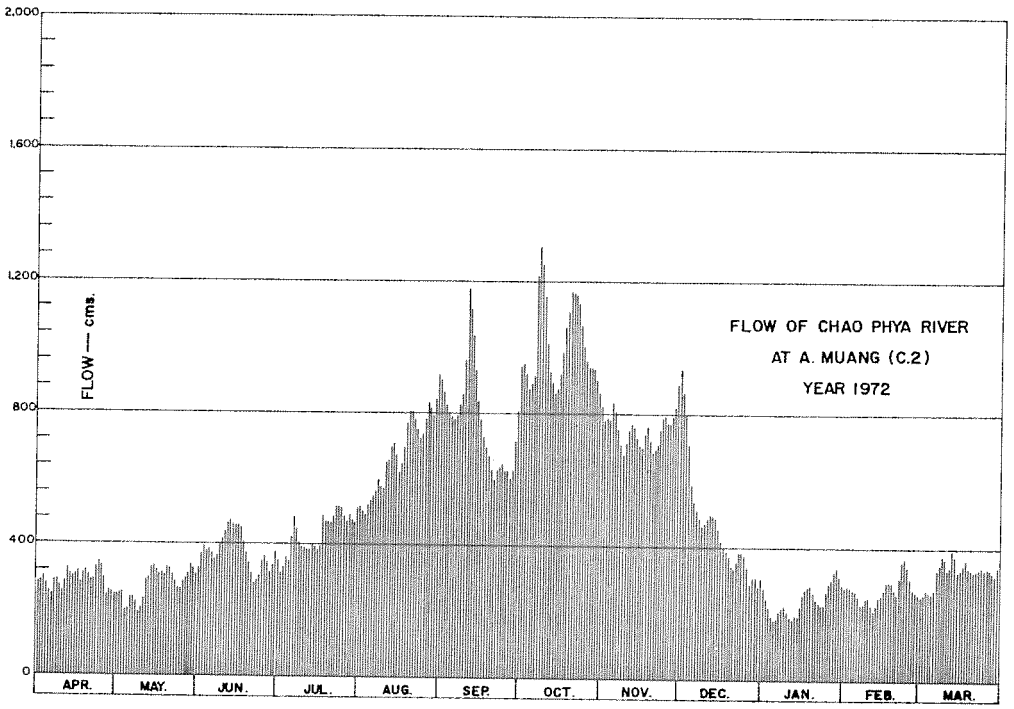
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 189 discharge measurements made in 1972. Upstream state diversions for irrigation of about 91,000 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18.78	18.66	18.92	19.02	19.50	20.43	20.55	20.19	20.53	18.47	18.46	18.35
2	.79	.68	19.08	18.88	.47	.34	.56	.10	.35	.39	.48	.40
3	.84	.63	.14	.98	.45	.21	.48	.12	.09	.21	.46	.43
4	.77	.47	.10	19.04	.51	.16	.37	.11	19.75	.09	.43	.42
5	.67	.48	.13	.00	.55	.13	.42	.26	.52	.05	.43	.38
6	18.63	18.62	19.08	19.23	19.58	20.10	20.72	20.18	19.36	18.06	18.36	18.45
7	.79	.62	.02	.40	.60	.15	21.20	19.98	.29	.16	.24	.67
8	.80	.55	.06	.30	.68	.24	.39	.80	.23	.20	.26	.74
9	.73	.45	.17	.16	.62	.34	.26	.81	.14	.22	.33	.84
10	.69	.50	.22	.14	.62	.92	20.94	.92	.20	.17	.34	.78
11	18.79	18.61	19.27	19.14	19.82	21.11	20.66	20.02	19.23	18.08	18.23	18.69
12	.92	.81	.35	.12	.83	20.96	.50	.09	.26	.06	.18	.73
13	.86	.83	.37	.13	.93	.70	.40	.05	.25	.10	.25	.91
14	.84	.97	.33	.17	.95	.40	.33	19.96	.22	.09	.34	.84
15	.86	.95	.33	.15	.83	.22	.39	.89	.12	.23	.36	.66
16	18.90	18.91	19.33	19.12	19.73	20.09	20.57	19.87	18.99	18.39	18.42	18.70
17	.79	.86	.30	.15	.81	19.91	.76	.99	.94	.44	.54	.76
18	.86	.89	.18	.42	.94	.84	.89	20.05	.90	.49	.55	.78
19	.90	.86	.09	.37	20.07	.78	21.01	19.92	.82	.49	.52	.70
20	.85	.93	18.97	.37	.17	.62	.09	.83	.72	.40	.44	.68
21	18.80	18.92	18.87	19.36	20.17	19.58	21.08	19.86	18.68	18.31	18.37	18.66
22	.82	.85	.79	.41	.06	.67	.07	.89	.79	.28	.59	.67
23	.93	.80	.81	.51	19.98	.70	20.97	20.03	.88	.25	.78	.70
24	.99	.72	.87	.50	.95	.71	.80	.13	.87	.24	.82	.71
25	.93	.72	19.00	.49	.98	.64	.67	.14	.84	.41	.70	.69
26	18.73	18.80	19.05	19.41	20.10	19.66	20.56	20.09	18.68	18.53	18.55	18.71
27	.65	.83	18.95	.37	.25	.59	.53	.08	.52	.56	.46	.70
28	.70	.89	.89	.43	.22	.67	.54	.16	.54	.64	.40	.62
29	.67	.97	19.02	.40	.13	.90	.50	.24	.58	.70	-	.62
30	.65	.93	.10	.36	.27	20.39	.42	.42	.43	.62	-	.71
31	-	.85	-	.48	.48	-	.33	-	.58	.49	-	.73
Mean	18.80	18.76	19.15	19.26	19.77	20.31	20.74	20.04	19.38	18.31	18.43	18.65
Max.	18.99	18.97	19.37	19.51	20.48	21.11	21.39	20.42	20.53	18.70	18.82	18.91
Min.	18.63	18.45	19.79	18.88	19.45	19.58	20.33	19.80	18.43	18.05	18.18	18.35

WATER YEAR 1972 : Max. 21.39 m. Min. 18.05 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	284	250	326	356	520	897	945	811	937	281	279	253
2	287	255	374	314	509	864	949	780	867	263	283	265
3	302	242	394	344	502	818	917	787	773	220	279	272
4	281	202	380	362	524	801	874	783	657	193	272	270
5	252	205	390	350	540	790	893	836	579	183	272	260
6	242	240	374	425	552	780	1,013	808	528	186	256	276
7	287	240	356	485	565	797	1,216	738	507	208	227	330
8	290	222	368	450	597	829	1,301	675	489	218	232	349
9	269	197	404	401	573	864	1,243	678	462	223	248	376
10	257	210	422	394	573	1,093	1,102	717	480	210	251	360
11	287	237	439	394	653	1,175	989	752	489	190	225	335
12	326	293	467	387	657	1,110	925	773	498	186	212	346
13	308	299	474	390	697	1,005	885	762	495	195	229	395
14	302	341	460	404	705	885	860	731	486	193	251	376
15	308	335	460	397	657	822	881	706	456	225	256	328
16	320	323	460	387	617	773	953	699	417	263	270	338
17	287	308	450	397	649	713	1,029	741	403	274	298	354
18	308	317	408	492	701	689	1,081	762	392	286	300	360
19	320	308	377	474	770	668	1,131	717	370	286	293	338
20	305	329	341	474	804	612	1,167	685	343	265	274	333
21	290	326	311	471	804	598	1,162	696	333	243	258	328
22	296	305	287	488	767	629	1,158	706	362	236	310	330
23	329	290	293	524	738	640	1,114	755	387	229	360	338
24	347	266	311	520	727	643	1,045	790	384	227	370	341
25	329	266	350	516	738	619	993	794	376	267	338	335
26	269	290	365	488	780	626	949	773	333	295	300	341
27	247	299	335	474	832	602	937	774	293	303	279	338
28	260	317	317	495	822	629	941	801	298	323	265	318
29	252	341	356	485	790	710	925	829	308	338	–	318
30	247	329	380	471	839	881	893	893	272	318	–	341
31	–	305	–	513	917	–	860	–	308	286	–	346
Total	8,688	8,687	11,429	13,522	21,119	23,562	31,331	22,752	14,282	7,613	7,687	10,188
Mean	290	280	380	436	681	785	1,010	758	476	245	274	328
Max.	347	341	474	524	917	1,175	1,301	893	937	338	370	395
Min.	242	197	287	314	502	598	860	675	272	183	212	253
Runoff - mcm.	750.643	750.557	987.466	1,168.301	1,824.682	2,035.757	2,706.998	1,965.773	1,233.965	657.763	664.157	880.243

WATER YEAR 1972 : Max. 1,301 Min. 183 Mean 495 Annual Runoff 15,626.304mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.8	08.00	21.41	1,310				

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. - C13

Location: along the gage line
Elevation: + 15.634 m. (M.S.L.)

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

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

Period of Available Gage Records: 1947 to date.

Rating Operation:

Period of Rating: 1953-1962, 1965-1968, 1972, 1975 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.

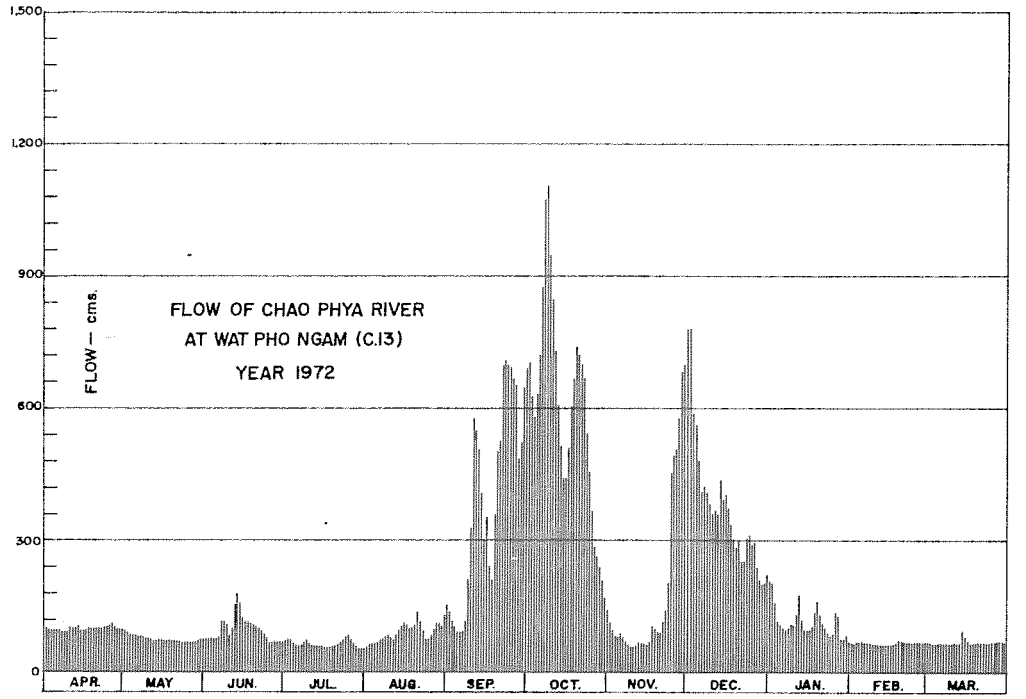
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 42 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 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.25	7.24	7.08	7.06	6.96	7.66	10.09	7.53	10.40	7.98	7.00	7.03
2	.24	.20	.08	.06	7.00	.49	.14	.36	.39	.96	.01	.02
3	.23	.15	.09	.06	.00	.44	9.83	.24	9.63	.52	.02	.02
4	.23	.14	.08	.01	6.99	.33	.67	.16	.60	.38	.03	.02
5	.23	.13	.08	6.97	7.00	.24	.93	.14	.34	.36	.03	.02
6	7.22	7.12	7.12	6.96	7.08	7.21	10.31	7.20	9.01	7.27	7.03	7.02
7	.22	.12	.41	.96	.10	.23	.84	.13	.06	.26	.02	.02
8	.14	.11	.40	7.04	.11	.41	11.34	.03	8.97	.33	.02	.02
9	.21	.10	.36	.05	.18	8.15	.46	6.96	.83	.34	.02	.02
10	.28	.09	.12	6.99	.10	.80	10.74	.95	.75	.35	.01	.02
11	7.22	7.08	7.30	6.96	7.05	9.67	10.56	6.95	8.81	7.59	7.00	7.02
12	.26	.06	.66	.95	.19	.48	.08	.97	.75	.81	6.99	.00
13	.25	.04	.81	.95	.25	.34	9.61	7.00	9.12	.24	.99	.01
14	.20	.06	.45	.95	.32	8.88	.39	.01	8.92	.27	.97	.23
15	.19	.07	.39	.95	.37	.50	.13	.00	.97	.26	.98	.13
16	7.25	7.05	7.38	6.94	7.34	8.74	9.13	6.99	8.81	7.26	7.00	7.02
17	.28	.02	.38	.94	.27	.13	.44	7.05	.68	.36	.01	.02
18	.27	.02	.37	.94	.32	7.99	.77	.59	.47	.57	.04	.02
19	.27	.02	.35	.95	.33	8.77	10.02	.20	.41	.72	.09	.02
20	.27	.02	.30	.96	.44	9.37	.26	.17	.50	.39	.05	.03
21	7.27	7.02	7.26	6.97	7.52	9.54	10.16	7.23	8.21	7.34	7.04	7.02
22	.27	.00	.24	7.00	.40	.88	.02	.38	.23	.25	.03	.02
23	.28	6.99	.18	.06	.23	10.15	9.99	.64	.48	.13	.04	.02
24	.29	7.03	.03	.13	.12	.09	.50	8.49	.54	.12	.04	.03
25	.33	.02	.02	.16	.07	.10	.14	9.18	.43	.29	.04	.04
26	7.37	7.02	7.02	7.09	7.13	9.99	8.75	9.34	8.46	7.56	7.03	7.04
27	.29	.03	.03	.00	.28	.77	.39	.40	.09	.48	.03	.04
28	.25	.04	.03	6.93	.36	.30	.30	.75	7.97	.05	.03	.05
29	.25	.06	.03	.93	.37	.48	.17	10.06	.95	.08	-	.05
30	.24	.07	.04	.92	.33	.92	.04	.11	.99	.17	-	.03
31	-	.08	-	.92	.50	-	7.72	-	8.08	.03	-	.03
Mean	7.25	7.07	7.23	6.99	7.21	8.76	9.67	7.70	8.76	7.37	7.02	7.03
Max.	7.37	7.24	7.81	7.16	7.52	10.15	11.46	10.11	10.40	7.98	7.04	7.05
Min.	7.14	6.99	7.02	6.92	6.96	7.21	7.72	6.95	7.95	7.03	6.97	7.02

WATER YEAR 1972 : Max. 11.46 m. Min. 6.92 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	97	96	77	74	63	154	691	135	778	208	67	71
2	96	91	77	74	67	130	705	111	775	205	68	69
3	95	85	78	74	67	123	622	96	570	134	69	69
4	95	84	77	68	66	107	580	86	562	114	71	69
5	95	83	77	64	67	96	648	84	494	111	71	69
6	93	81	81	63	77	92	753	91	414	99	71	69
7	93	81	118	63	79	95	907	83	426	98	69	69
8	84	80	117	72	80	118	1,066	71	405	107	69	69
9	92	79	111	73	89	239	1,106	63	375	109	69	69
10	101	78	81	66	79	368	877	61	357	110	68	69
11	93	77	103	63	73	580	824	61	370	144	67	69
12	98	74	154	61	90	531	688	64	357	179	66	67
13	97	72	179	61	97	494	565	67	440	96	66	68
14	91	74	124	61	106	386	507	68	394	99	64	95
15	90	75	116	61	113	305	442	67	405	98	65	83
16	97	73	114	60	109	355	442	66	370	98	67	69
17	101	69	114	60	99	235	520	73	342	111	68	69
18	99	69	113	60	106	210	606	114	299	141	72	69
19	99	69	110	61	107	361	672	91	287	163	78	69
20	99	69	103	63	123	502	739	87	305	116	73	71
21	99	69	98	64	134	546	711	95	250	109	72	69
22	99	67	96	67	117	635	672	114	253	97	71	69
23	101	66	89	74	95	708	663	151	301	83	72	69
24	102	71	71	83	81	691	536	303	313	81	72	71
25	107	69	69	86	75	694	444	453	291	90	72	72
26	113	69	69	78	83	663	357	494	297	139	71	72
27	102	71	71	67	101	606	283	510	228	128	71	72
28	97	72	71	59	111	484	266	601	207	73	71	73
29	97	74	71	59	113	531	243	683	203	77	--	73
30	96	75	72	58	107	645	219	697	210	87	-	71
31	-	77	-	58	131	-	163	--	226	71	-	71
Total	2,918	2,339	2,901	2,055	2,905	11,684	18,517	5,740	11,504	3,575	1,950	2,203
Mean	97.3	75.4	96.7	66.3	93.7	389	597	191	371	115	69.6	71.1
Max.	113	96	179	86	134	708	1,106	697	778	208	72	73
Min.	84	66	69	58	63	92	163	61	203	71	64	69
Runoff - mcm.	252.115	202.090	250.646	177.552	250.992	1,009.498	1,599.869	495.936	993.946	308.880	168.480	190.339

WATER YEAR 1972 : Max. 1.106 Min. 58 Mean 187 Annual Runoff 5,900.343 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.9	3.00	11.53	1,129				

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, Ayuthaya.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: - 0.20 m. (M.S.L.)

Bench Mark: B.M. - C15 about 15 meters from B.M.-H.S./R.I.D. 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.

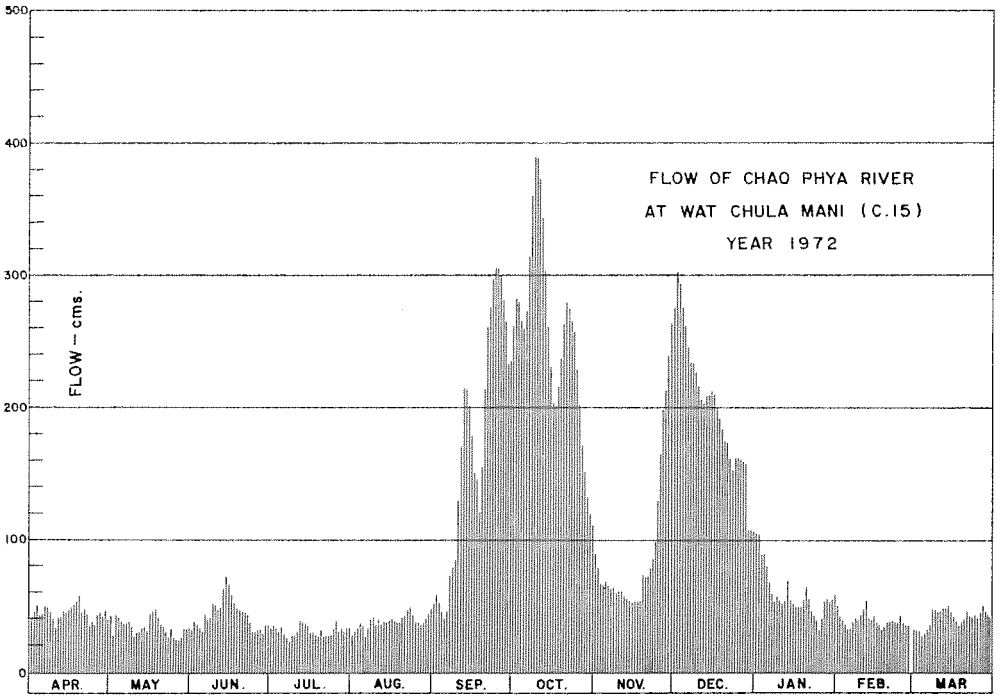
Overbank Flow Conditions: Overbank flow starts of elevation + 3.90 m. (M.S.L.), and is included.

General Description: Records fair. Stage-discharge relation defined by 287 discharge measurements made in 1955. Flow regulated by Chao Phya Diversion Dam at Chai Nat.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.62	0.61	0.47	0.49	0.40	0.77	2.97	1.26	3.05	1.43	0.70	0.47
2	.68	.38	.55	.52	.47	.85	3.09	.11	.24	.43	.62	.45
3	.73	.63	.53	.49	.49	.73	.08	0.96	.18	.25	.59	.45
4	.63	.61	.49	.43	.55	.68	2.94	.96	.04	.25	.55	.40
5	.66	.56	.43	.50	.50	.60	.92	1.00	2.92	.07	.47	.43
6	0.73	0.54	0.64	0.38	0.38	0.74	3.06	0.92	2.79	0.94	0.50	0.49
7	.71	.55	.59	.37	.53	1.05	.32	.92	.70	.87	.56	.55
8	.64	.55	.65	.32	.60	.12	.65	.94	.70	.82	.61	.71
9	.60	.50	.76	.40	.62	.22	.88	.89	.62	.84	.60	.70
10	.50	.38	.74	.40	.54	.58	.88	.91	.53	.80	.63	.68
11	0.60	0.43	0.67	0.48	0.58	2.05	3.71	0.90	2.44	0.76	0.72	0.70
12	.62	.43	.74	.57	.54	.54	.38	.84	.43	.81	.78	.73
13	.68	.49	.93	.55	.57	.53	.13	.82	.47	1.00	.60	.73
14	.67	.50	1.03	.54	.59	.42	2.85	.78	.48	0.78	.60	.74
15	.70	.45	0.94	.51	.59	.19	.63	.79	.50	.77	.65	.67
16	0.73	0.64	0.83	0.42	0.60	1.94	2.43	0.79	2.49	0.74	0.56	0.61
17	.74	.68	.77	.44	.58	.88	.41	.81	.40	.73	.53	.57
18	.78	.70	.73	.41	.56	.63	.56	.82	.31	.74	.49	.54
19	.84	.61	.70	.38	.57	.97	.75	1.05	.22	.82	.52	.58
20	.67	.52	.69	.46	.63	2.53	.95	.04	.16	.94	.57	.61
21	0.70	0.49	0.67	0.38	0.65	2.91	3.07	1.05	2.13	0.81	0.58	0.68
22	.64	.43	.64	.40	.70	3.06	.03	.14	.02	.69	.59	.65
23	.53	.37	.57	.40	.72	.22	2.97	.24	1.96	.64	.56	.63
24	.55	.46	.43	.41	.64	.27	.89	.40	2.04	.58	.56	.65
25	.51	.35	.44	.50	.55	.27	.65	.80	.04	.48	.64	.62
26	0.64	0.33	0.47	0.56	0.55	3.23	2.43	2.20	2.03	0.61	0.54	0.68
27	.66	.34	.47	.39	.53	.08	.20	.44	.00	.78	.53	.74
28	.62	.37	.42	.49	.55	2.94	1.94	.56	.00	.83	.54	.68
29	.68	.46	.52	.44	.63	.68	.76	.77	1.47	.78	-	.65
30	.59	.46	.51	.48	.67	.70	.63	.95	.47	.67	-	.63
31	-	.48	-	.48	.72	-	.50	-	.46	.73	-	.55
Mean	0.65	0.49	0.63	0.45	0.57	2.05	2.83	1.27	2.36	0.85	0.58	0.61
Max.	0.84	0.70	1.03	0.57	0.72	3.27	3.88	2.95	3.24	1.43	0.78	0.74
Min.	0.50	0.33	0.42	0.38	0.38	0.60	1.50	0.78	1.46	0.48	0.47	0.40

WATER YEAR 1972 : Max. 3.88 m. Min. 0.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41	41	32	33	28	52	266	90	276	104	47	32
2	46	27	37	35	32	57	282	78	301	104	41	31
3	49	42	36	33	33	49	280	66	293	89	39	31
4	42	41	33	30	37	46	263	66	275	89	37	28
5	44	38	30	34	34	40	260	69	260	75	32	30
6	49	36	43	27	27	50	278	63	245	64	34	33
7	48	37	39	26	36	73	312	63	234	59	38	37
8	43	37	43	23	40	79	357	64	234	55	41	48
9	40	34	51	28	41	87	389	60	224	57	40	47
10	34	27	50	28	36	117	389	62	214	54	42	46
11	40	30	45	33	39	163	365	61	204	51	48	47
12	41	30	50	38	36	215	319	57	203	55	53	49
13	46	33	63	37	38	214	287	55	208	69	40	49
14	45	34	71	36	39	202	252	53	209	53	40	50
15	47	31	64	35	39	178	226	53	211	52	43	45
16	49	43	56	29	40	152	203	53	210	50	38	41
17	50	46	52	30	39	146	201	55	200	49	36	38
18	53	47	49	29	38	122	218	55	190	50	33	36
19	57	41	47	27	38	155	240	73	181	55	35	39
20	45	35	46	32	42	214	264	72	175	64	38	41
21	47	33	45	27	43	259	279	73	172	55	39	46
22	43	30	43	28	47	278	274	80	160	46	39	43
23	36	26	38	28	48	299	266	88	154	43	38	42
24	37	32	30	29	43	305	257	101	162	39	38	43
25	35	25	30	34	37	305	228	138	162	33	43	41
26	43	24	32	38	37	300	203	179	161	41	36	46
27	44	24	32	27	36	280	179	204	158	53	36	50
28	41	26	29	33	37	263	152	218	158	56	36	46
29	46	32	35	30	42	232	134	242	107	53	–	43
30	39	32	35	33	45	234	122	264	107	55	–	42
31	–	33	–	33	48	–	110	–	106	59	–	37
Total	1,320	1,047	1,286	963	1,195	5,166	7,855	2,855	6,154	1,831	1,100	1,277
Mean	44.0	33.8	42.9	31.1	38.5	172	262	95.2	198	59.1	39.3	41.2
Max.	57	47	71	38	48	305	389	264	301	104	53	50
Min.	34	24	29	27	27	40	110	53	106	33	32	28
Runoff – mcm.	114.048	90.461	111.110	83.203	103.248	446.342	678.672	246.672	531.706	158.198	95.040	110.333

WATER YEAR 1972 : Max. 389 Min. 24 Mean 87.8 Annual Runoff 2,769.034 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	01.00	3.92	395				

CHAO PHYA RIVER BASIN

Wang Kra Thum at Highway Bridge, Lop Buri (C.24)

Location: Lat. 15°-06'-07" N., Long. 100°-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: 5-time daily readings at 06.00, 09.00, 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: 1966-1967
Rated by Float: –
Rated by Current Meter: 1966-1967

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

Overbank Flow Conditions: No overbank flow.

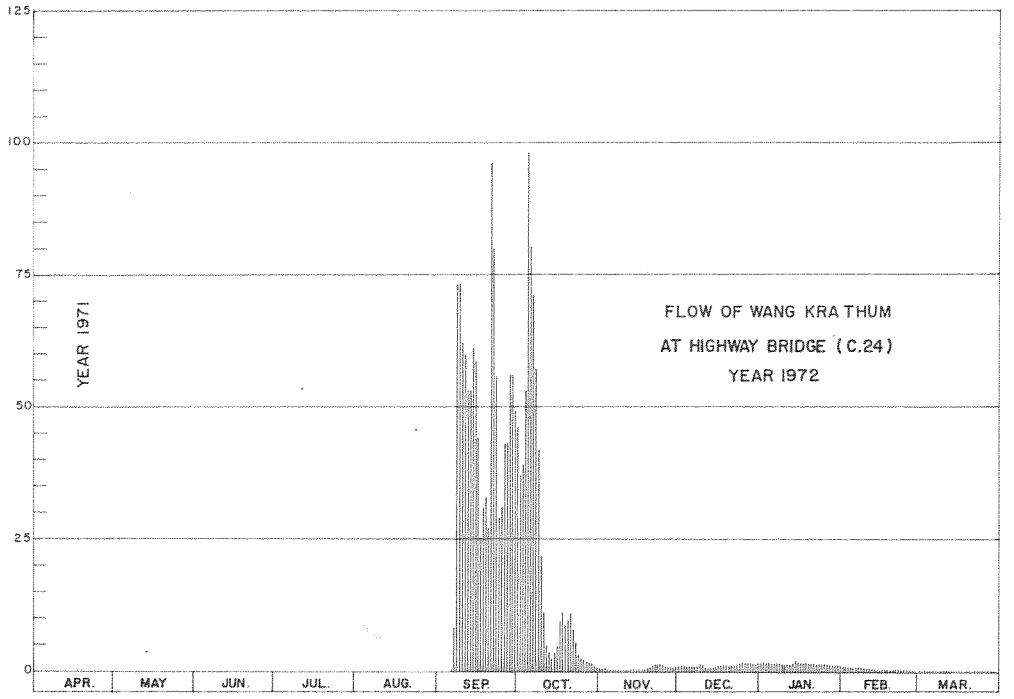
General Description: Records fair. Stage-discharge relation defined by 59 discharge measurements made in 1967.

Remarks: Records for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							24.17	21.12	21.39	21.64	21.33	20.78
2							.00	.14	.43	.68	.28	.76
3							.04	.11	.40	.72	.25	.75
4							.26	.09	.35	.68	.24	.74
5							.58	.04	.35	.66	.23	.72
6							24.49	21.03	21.34	21.68	21.21	20.70
7						22.81	.42	.00	.29	.68	.19	.69
8						24.44	.28	20.97	.36	.62	.16	.69
9						.44	23.94	.92	.50	.58	.15	.68
10						.36	.33	.90	.58	.53	.14	.66
11												
12						24.34	22.83	20.91	21.29	21.50	21.13	20.65
13						.27	.41	.92	.15	.47	.11	.64
14						.26	.15	.92	.14	.61	.10	.62
15						.35	.01	.91	.23	.74	.07	.60
16						.33	.17	.98	.28	.79	.05	.59
17						24.14	22.44	21.00	21.47	21.74	21.03	20.58
18						23.67	.92	.01	.54	.72	20.98	.56
19						.84	23.01	.07	.59	.70	.95	.54
20						.91	22.85	.18	.57	.68	.93	.52
21						.73	.95	.29	.54	.64	.92	.51
22						24.57	23.02	21.39	21.53	21.61	20.91	20.50
23						.43	22.78	.43	.52	.59	.90	.51
24						.18	.45	.43	.56	.56	.90	.51
25						23.80	.11	.59	.62	.53	.89	.53
						.84	21.88	.54	.64	.50	.86	.57
26						24.11	21.87	21.33	21.65	21.49	20.84	20.56
27						.12	.83	.22	.67	.48	.82	.53
28						.30	.65	.15	.68	.44	.81	.51
29						.30	.39	.15	.63	.41	–	.50
30						.21	.25	.24	.59	.40	–	.49
31						–	.14	–	.62	.39	–	.48
Mean							22.86	21.13	21.47	21.59	21.05	20.60
Max.						24.57	24.58	21.59	21.68	21.79	21.33	20.78
Min.							21.14	20.90	21.14	21.39	20.81	20.48

WATER YEAR 1972 : Max. 24.58 m. Min. 20.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							46	0.54	1.08	1.58	0.96	0.18
2							37	0.58	1.16	1.66	0.86	0.16
3							39	0.52	1.10	1.74	0.80	0.15
4							53	0.49	1.00	1.66	0.78	0.14
5							98	0.44	1.00	1.62	0.76	0.12
6							80	0.43	0.98	1.66	0.72	0.10
7						8.12	70	0.40	0.88	1.66	0.68	0.090
8						73	54	0.37	1.02	1.54	0.62	0.090
9						73	35	0.32	1.30	1.46	0.60	0.080
10						62	16	0.30	1.46	1.36	0.58	0.060
11						60	8.36	0.31	0.88	1.30	0.56	0.050
12						53	4.66	0.32	0.60	1.24	0.52	0.040
13						53	3.20	0.32	0.58	1.52	0.50	0.020
14						61	2.64	0.31	0.76	1.78	0.47	0.00
15						59	3.28	0.38	0.86	1.88	0.45	0.00
16						45	4.84	0.40	1.24	1.78	0.43	0.00
17						25	9.48	0.41	1.38	1.74	0.38	0.00
18						31	11	0.47	1.48	1.70	0.35	0.00
19						33	8.60	0.66	1.44	1.66	0.33	0.00
20						27	9.90	0.88	1.38	1.58	0.32	0.00
21						96	11	1.08	1.36	1.52	0.31	0.00
22						71	7.78	1.16	1.34	1.48	0.30	0.00
23						47	4.90	1.16	1.42	1.42	0.30	0.00
24						29	3.04	1.48	1.54	1.36	0.29	0.00
25						31	2.14	1.38	1.58	1.30	0.26	0.00
26						43	2.11	0.96	1.60	1.28	0.24	0.00
27						43	1.99	0.74	1.64	1.26	0.22	0.00
28						56	1.60	0.60	1.66	1.18	0.21	0.00
29						56	1.08	0.60	1.56	1.12	–	0.00
30						49	0.80	0.78	1.48	1.10	–	0.00
31						–	0.58	–	1.54	1.08	–	0.00
Total						1,184.12	630.98	18.79	38.30	46.22	13.80	1.28
Mean						39.5	20.3	0.63	1.23	1.49	0.49	0.041
Max.						96	98	1.48	1.66	1.88	0.96	0.18
Min.						0.00	0.58	0.30	0.58	1.08	0.21	0.00
Runoff – mcm.						102.308	54.517	1.623	3.309	3.993	1.192	0.110

WATER YEAR 1972 : Max. 98 Min. 0.00 Mean 5.30 Annual Runoff 167.053 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.5	09.00	24.66	126				

CHAO PHYA RIVER BASIN

Huai Yai at Ban Maha Phot, Lop Buri (C25)

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 C25 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.

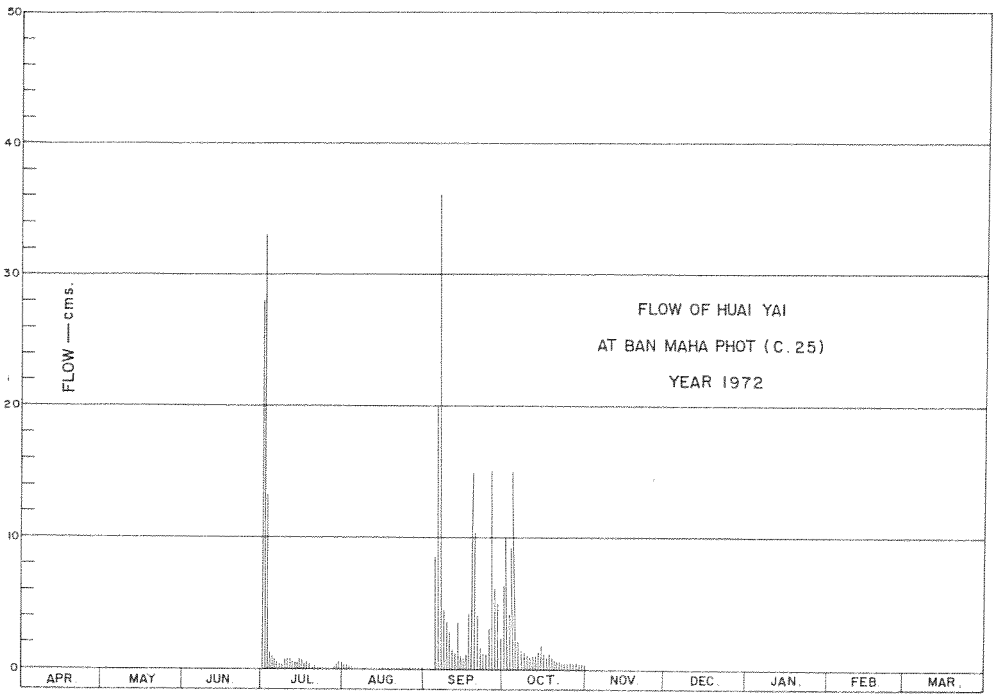
General Description: Records fair. Stage-discharge relation defined by 68 discharge measurements made in 1972.

Remarks: Records for period of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		2.38	1.28	2.55	0.78	0.21	1.78	0.75	0.64			
2		.33	.26	.73	.74	.31	.30	.75	.64			
3		.29	.73	1.28	.71	.18	.35	.75	.63			
4		.26	2.43	0.98	.67	.14	2.03	.75	.66			
5		.24	.35	.91	.62	2.21	1.63	.74	.66			
6		2.23	2.29	0.85	0.57	2.82	1.13	0.73	0.65			
7		.19	.22	.81	.52	1.66	.04	.73	.64			
8		.17	.16	.79	.47	.37	0.98	.73	.63			
9	0.10	.14	.13	.79	.42	.30	.94	.72	.63			
10	0.11	.09	.10	.89	.35	.23	.92	.72	.62			
11	0.07	2.06	2.04	0.89	0.28	1.04	0.88	0.71	0.62			
12	.05	.01	.01	.86	.36	0.95	.92	.70	.61			
13	.02	1.96	.63	.81	.40	1.29	.90	.71	.60			
14	.00	.90	.52	.79	.36	0.93	.99	.71	.57			
15	0.25	.87	.46	.88	.31	.90	1.07	.72	.54			
16	0.79	1.84	2.87	0.85	0.26	0.86	0.93	0.71	0.52			
17	.86	.80	.57	.77	.23	1.01	.88	.72	.50			
18	.81	.76	.51	.84	.24	.56	.96	.72	.48			
19	.76	.73	.52	.78	.23	2.06	.90	.71	.47			
20	.73	.66	.47	.66	.23	1.52	.86	.71	.46			
21	0.68	1.60	2.43	0.71	0.23	1.18	0.83	0.74	0.42			
22	.77	.52	.40	.64	.22	.04	.82	.74	.40			
23	2.57	.47	.42	.65	.20	0.95	.81	.72	.39			
24	.76	.43	.23	.67	.20	.94	.80	.70	.37			
25	.57	.39	.18	.61	.19	1.21	.79	.69	.36			
26	2.54	1.38	2.24	0.57	0.18	2.04	0.78	0.68	0.34			
27	.53	.35	.41	.55	.17	1.51	.78	.68	.33			
28	.49	.30	.74	.62	.16	.45	.78	.67	.32			
29	.43	.27	.83	.75	.16	.27	.77	.66	.30			
30	.42	.32	.81	.83	.15	.14	.76	.65	.29			
31	-	.30	-	.81	.15	-	.76	-	.27			
Mean	0.88	1.81	2.31	0.91	0.35	1.21	1.00	0.71	0.50			
Max.	2.76	2.38	2.87	2.73	0.78	2.82	2.03	0.75	0.66			
Min.	0.00	1.27	1.26	0.55	0.15	0.14	0.76	0.65	0.27			

WATER YEAR : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		23	3.52	28	0.44	0.00	9.98	0.35	0.14			
2		22	3.34	33	0.32	0.00	3.70	0.35	0.14			
3		20	9.18	3.52	0.23	0.00	4.20	0.35	0.13			
4		20	24	1.30	0.17	0.00	15	0.35	0.16			
5		19	22	0.95	0.12	18	7.65	0.32	0.16			
6		19	20	0.70	0.070	36	2.24	0.29	0.15			
7		18	19	0.54	0.020	8.10	1.64	0.29	0.14			
8		18	17	0.47	0.00	4.40	1.30	0.29	0.13			
9	0.00	17	17	0.47	0.00	3.70	1.10	0.26	0.13			
10	0.00	16	16	0.86	0.00	3.07	1.00	0.26	0.12			
11	0.00	15	15	0.86	0.00	1.64	0.82	0.23	0.12			
12	0.00	14	14	0.74	0.00	1.15	1.00	0.20	0.11			
13	0.00	13	30	0.54	0.00	3.61	0.90	0.23	0.10			
14	0.00	12	27	0.47	0.00	1.05	1.35	0.23	0.07			
15	0.00	12	25	0.82	0.00	0.90	1.82	0.26	0.04			
16	0.47	11	38	0.70	0.00	0.74	1.05	0.23	0.02			
17	0.74	10	28	0.41	0.00	1.46	0.82	0.26	0.00			
18	0.54	9.56	27	0.66	0.00	6.68	1.20	0.26	0.00			
19	0.38	9.18	27	0.44	0.00	15	0.90	0.23	0.00			
20	0.29	8.10	25	0.16	0.00	6.16	0.74	0.23	0.00			
21	0.18	7.20	24	0.23	0.00	2.64	0.62	0.32	0.00			
22	0.41	6.16	23	0.14	0.00	1.64	0.58	0.32	0.00			
23	28	5.54	24	0.15	0.00	1.15	0.54	0.26	0.00			
24	34	5.06	19	0.17	0.00	1.10	0.50	0.20	0.00			
25	28	4.60	18	0.11	0.00	2.89	0.47	0.19	0.00			
26	27	4.50	19	0.070	0.00	15	0.44	0.18	0.00			
27	27	4.20	24	0.050	0.00	6.03	0.44	0.18	0.00			
28	26	3.70	34	0.12	0.00	5.30	0.44	0.17	0.00			
29	24	3.43	37	0.35	0.00	3.43	0.41	0.16	0.00			
30	24	3.90	36	0.62	0.00	2.32	0.38	0.15	0.00			
31	–	3.70	–	0.54	0.00	–	0.38	–	0.00			
Total	221.01	357.93	665.04	78.16	1.37	153.16	63.61	7.60	1.86			
Mean	7.37	11.5	22.2	2.52	0.044	5.10	2.05	0.25	0.06			
Max.	34	23	38	33	0.44	36	15	0.35	0.16			
Min.	0.00	3.43	334	0.050	0.00	0.00	0.38	0.15	0.00			
Runoff – MCM.	19.095	30.925	57.459	6.753	0.118	13.233	5.496	0.657	0.161			

WATER YEAR : Max. 38 Min. 0.00 Mean 4.24 Annual Runoff 133.897 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.6	02.00	4.50	131				

SAKAE KRANG RIVER BASIN

Huai Thap Salao at Ban Prada Hak, Uthai Thani (ct3)

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:
Rated by Float: -
Rated by Current Meter: 1967-1968

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

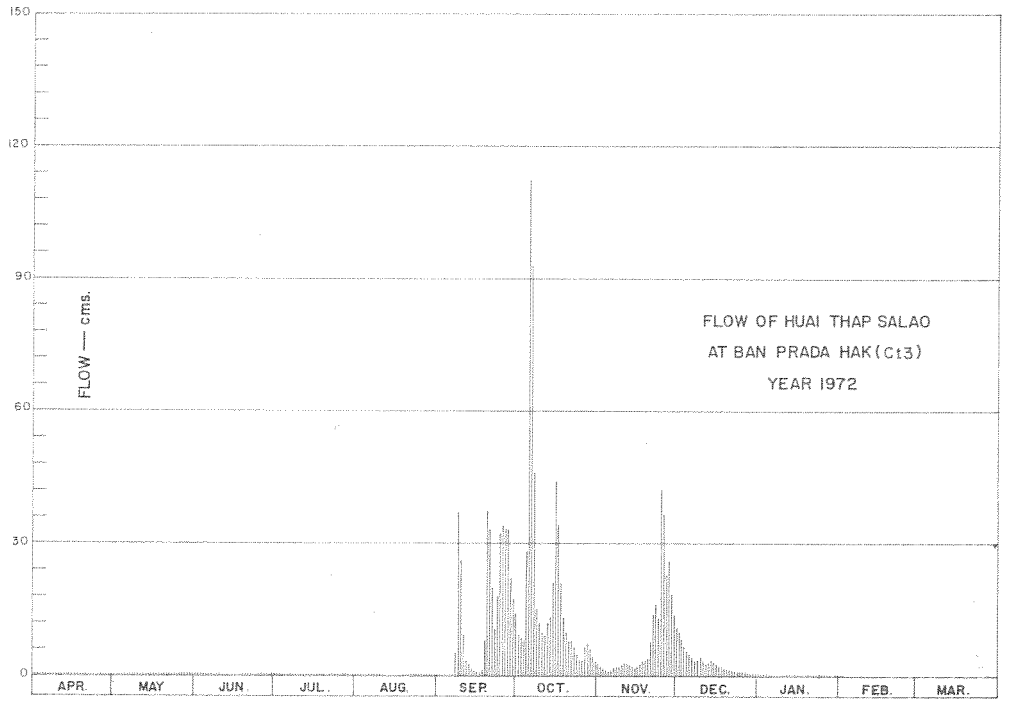
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 148 discharge measurements in 1968.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.14	0.15	0.26	0.05	0.22	0.20	1.37	0.70	1.25	0.36	0.14	0.01
2	.15	.15	.26	.05	.22	.20	.14	.63	.19	.34	.13	.01
3	.15	.15	.25	.06	.23	.19	.09	.56	.08	.34	.11	.01
4	.16	.15	.22	.06	.23	.18	.06	.53	0.99	.32	.11	.00
5	.17	.15	.04	.06	.23	.14	.83	.48	.94	.31	.10	.00
6	0.17	0.14	0.04	0.09	0.23	0.13	3.27	0.47	0.88	0.30	0.11	0.00
7	.16	.14	.02	.07	.24	.12	2.99	.57	.81	.30	.11	.00
8	.16	.16	.00	.07	.20	.88	.02	.58	.77	.29	.11	.00
9	.14	.17	.00	.08	.20	2.06	1.42	.58	.79	.29	.10	.01
10	.10	.19	.05	.08	.20	1.68	.30	.67	.85	.29	.10	.01
11	0.09	0.20	0.03	0.08	0.20	1.12	1.18	0.71	0.79	0.27	0.09	0.01
12	.07	.20	.02	.08	.19	0.78	.14	.70	.72	.27	.09	.00
13	.07	.21	.02	.08	.13	.67	.27	.69	.74	.26	.08	.00
14	.07	.22	.00	.09	.06	.59	.33	.62	.80	.25	.08	.01
15	.06	.22	.00	.09	.03	.48	.61	.58	.75	.25	.07	.01
16	0.06	0.23	0.00	0.09	0.02	0.41	2.22	0.60	0.68	0.24	0.08	0.01
17	.08	.23	.00	.10	.01	.38	1.98	.67	.64	.22	.08	.02
18	.09	.23	.01	.11	.02	.35	.62	.76	.60	.21	.09	.01
19	.09	.23	.02	.14	.05	1.02	.36	.78	.59	.21	.09	.01
20	.10	.23	.03	.19	.06	2.06	.19	.81	.55	.20	.09	.02
21	0.11	0.24	0.03	0.19	0.07	1.95	1.07	1.07	0.53	0.20	0.08	0.02
22	.11	.24	.03	.20	.08	.56	.07	.38	.52	.20	.08	.02
23	.11	.24	.02	.20	.17	.21	.02	.44	.50	.20	.06	.02
24	.10	.24	.03	.20	.20	.55	0.93	.32	.47	.19	.03	.02
25	.10	.24	.03	.20	.22	.92	.78	2.16	.47	.19	.02	.03
26	0.09	0.24	0.03	0.21	0.23	1.98	0.78	2.00	0.44	0.18	0.02	0.02
27	.09	.25	.04	.21	.22	.95	.99	1.68	.41	.17	.01	.01
28	.10	.25	.04	.22	.21	.96	1.03	.75	.40	.17	.01	.01
29	.10	.25	.04	.22	.20	.65	0.98	.51	.39	.16	-	.01
30	.11	.25	.04	.22	.20	.56	.86	.36	.37	.15	-	.01
31	-	.26	-	.22	.20	-	.77	-	.36	.14	-	.00
Mean	0.11	0.21	0.05	0.13	0.16	1.03	1.38	0.94	0.69	0.24	0.08	0.01
Max.	0.17	0.26	0.26	0.22	0.24	2.06	3.27	2.16	1.25	0.36	0.14	0.03
Min.	0.06	0.14	0.00	0.05	0.01	0.12	0.77	0.47	0.36	0.14	0.01	0.00

WATER YEAR 1972 : Max. 3.27 m. Min. 0.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.17	0.38	0.05	0.29	0.25	14	2.70	11	0.67	0.16	0.01
2	0.17	0.17	0.38	0.05	0.29	0.25	9.13	2.17	10	0.60	0.14	0.01
3	0.17	0.17	0.36	0.06	0.32	0.23	8.17	1.69	8.00	0.60	0.11	0.01
4	0.19	0.17	0.29	0.06	0.32	0.22	7.65	1.49	6.44	0.54	0.11	0.00
5	0.20	0.17	0.04	0.06	0.32	0.16	18	1.20	5.64	0.50	0.10	0.00
6	0.20	0.16	0.04	0.07	0.32	0.14	112	1.15	4.75	0.47	0.11	0.00
7	0.19	0.16	0.02	0.07	0.34	0.13	90	1.75	3.87	0.47	0.11	0.00
8	0.19	0.19	0.00	0.07	0.25	4.75	36	1.82	3.43	0.45	0.11	0.00
9	0.16	0.20	0.00	0.08	0.25	37	15	1.82	3.64	0.45	0.10	0.01
10	0.10	0.23	0.05	0.08	0.25	23	12	2.47	4.37	0.45	0.10	0.00
11	0.09	0.25	0.03	0.08	0.25	8.74	9.91	2.80	3.64	0.40	0.09	0.01
12	0.07	0.25	0.02	0.08	0.23	3.54	9.13	2.70	2.91	0.40	0.09	0.00
13	0.07	0.27	0.02	0.08	0.14	2.47	12	2.62	3.12	0.38	0.08	0.00
14	0.07	0.29	0.00	0.09	0.06	1.88	13	2.10	3.75	0.36	0.08	0.01
15	0.06	0.29	0.00	0.09	0.03	1.20	21	1.82	3.22	0.36	0.07	0.01
16	0.06	0.32	0.00	0.09	0.02	0.85	44	1.95	2.55	0.34	0.08	0.01
17	0.08	0.32	0.00	0.10	0.01	0.73	34	2.47	2.25	0.29	0.08	0.02
18	0.09	0.32	0.01	0.11	0.02	0.63	21	3.33	1.95	0.27	0.09	0.01
19	0.09	0.32	0.02	0.16	0.05	6.95	14	3.54	1.88	0.27	0.09	0.01
20	0.10	0.32	0.03	0.23	0.06	37	10	3.87	1.62	0.25	0.09	0.02
21	0.11	0.34	0.03	0.23	0.07	33	7.82	7.82	1.49	0.25	0.08	0.02
22	0.11	0.34	0.03	0.25	0.08	19	7.82	14	1.43	0.25	0.08	0.02
23	0.11	0.34	0.02	0.25	0.20	10	6.95	16	1.30	0.25	0.06	0.02
24	0.10	0.34	0.03	0.25	0.25	19	5.48	13	1.15	0.23	0.03	0.02
25	0.10	0.34	0.03	0.25	0.29	32	3.54	42	1.15	0.23	0.02	0.03
26	0.09	0.34	0.03	0.27	0.32	34	3.54	35	1.00	0.22	0.02	0.02
27	0.09	0.36	0.04	0.27	0.29	33	6.44	23	0.85	0.20	0.01	0.01
28	0.10	0.36	0.04	0.29	0.27	33	7.12	26	0.80	0.20	0.01	0.01
29	0.10	0.36	0.04	0.29	0.25	22	6.28	18	0.77	0.19	–	0.01
30	0.11	0.36	0.04	0.29	0.25	19	4.50	14	0.70	0.17	–	0.01
31	–	0.38	–	0.29	0.25	–	3.43	–	0.67	0.16	–	0.00
Total	3.53	8.60	2.02	4.69	6.34	384.12	582.91	254.28	99.34	10.87	2.30	0.31
Mean	0.12	0.28	0.067	0.15	0.20	12.8	18.8	8.48	3.20	0.35	0.082	0.010
Max.	0.20	0.38	0.38	0.29	0.34	37	112	42	11	0.67	0.16	0.03
Min.	0.06	0.16	0.00	0.05	0.01	0.13	3.43	1.15	0.67	0.16	0.01	0.00
Runoff - MCM.	0.305	0.743	0.174	0.405	0.548	33.188	50.363	21.970	8.583	0.939	0.199	0.027

WATER YEAR 1972 : Max. 112 Min. 0.00 Mean 3.72 Annual Runoff 117.444 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6, 72	18.00	3.52	135				

SAKAE KRANG RIVER BASIN

Mae Wang at Ban Pang Makha, Kamphaeng Phet (ct5A)

Location: Lat. 15°-54'-10" N., Long. 99°-28'-45" E., on left bank behind of Wat Pang Makha, Amphoe Khanuwaralaksa 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 to date.
Rated by Float: -
Rated by Current Meter: 1968 to date.

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

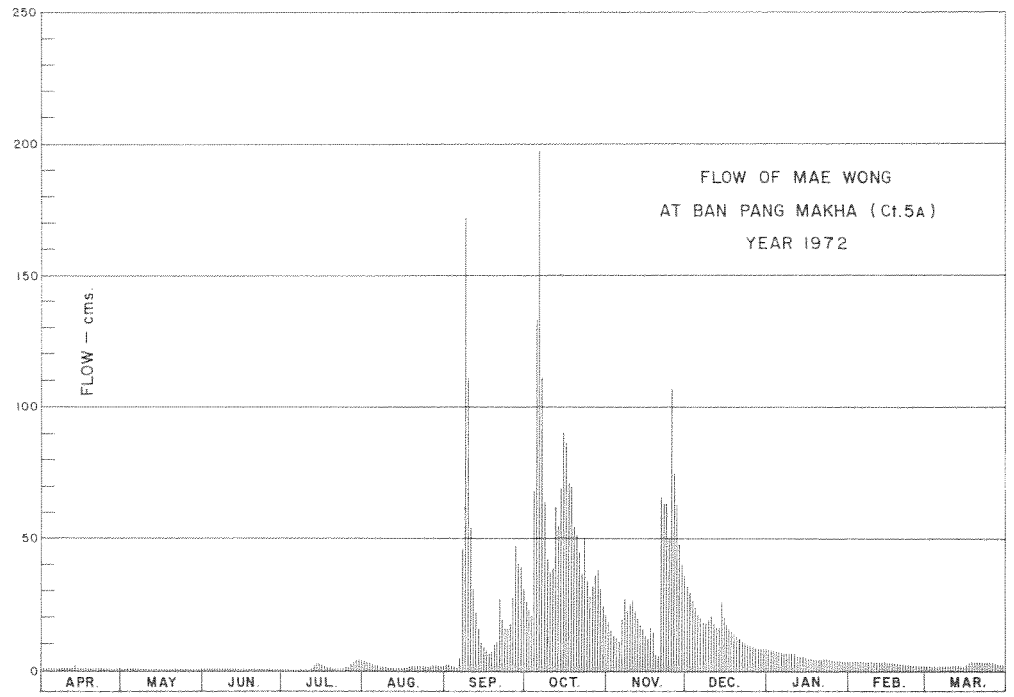
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 312 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.07	0.08	0.08	0.08	0.48	0.33	1.28	1.02	1.43	0.67	0.42	0.27
2	.07	.08	.08	.08	.43	.36	.21	0.94	.38	.66	.43	.27
3	.07	.08	.08	.09	.38	.30	.13	.87	.28	.64	.41	.27
4	.07	.07	.08	.08	.37	.28	.40	.82	.20	.62	.40	.26
5	.07	.07	.08	.09	.34	.27	2.86	.79	.13	.62	.40	.25
6	0.13	0.07	0.08	0.09	0.31	0.27	3.65	0.90	1.09	0.61	0.40	0.25
7	.09	.07	.08	.09	.30	.75	2.80	1.30	.04	.60	.39	.24
8	.08	.07	.09	.11	.28	3.45	.10	.18	.02	.59	.39	.25
9	.08	.07	.07	.09	.27	2.96	1.69	.23	.05	.58	.38	.26
10	.08	.07	.07	.08	.24	1.92	.58	.30	.12	.57	.38	.28
11	0.08	0.07	0.09	0.07	0.22	1.33	1.60	1.18	1.02	0.57	0.38	0.27
12	.12	.07	.09	.08	.21	.12	2.11	.10	0.97	.56	.37	.27
13	.31	.07	.08	.32	.20	0.95	1.97	.03	.98	.55	.36	.25
14	.19	.07	.07	.40	.20	.81	2.17	0.96	1.26	.54	.35	.23
15	.13	.07	.07	.32	.20	.71	.57	.89	.11	.52	.35	.22
16	0.11	0.07	0.07	0.29	0.20	0.65	2.52	0.84	1.03	0.51	0.34	0.23
17	.15	.07	.07	.29	.27	.59	.28	.97	0.97	.50	.34	.31
18	.13	.07	.06	.28	.31	.62	.25	.90	.92	.50	.34	.38
19	.08	.07	.06	.26	.34	.76	1.98	.55	.89	.50	.33	.37
20	.08	.07	.06	.21	.34	.83	.90	.46	.85	.49	.32	.42
21	0.08	0.10	0.06	0.19	0.32	1.30	1.69	2.19	0.83	0.49	0.31	0.40
22	.08	.08	.06	.18	.31	.10	.56	.14	.81	.48	.30	.35
23	.08	.08	.06	.17	.31	0.97	.86	.14	.79	.48	.30	.33
24	.08	.08	.06	.17	.30	.97	.50	1.87	.76	.47	.30	.36
25	.08	.08	.07	.23	.29	1.04	.33	2.79	.74	.46	.29	.37
26	0.07	0.08	0.07	0.31	0.29	1.32	1.38	2.35	0.73	0.46	0.29	0.40
27	.07	.08	.07	.31	.31	.79	.52	.05	.71	.44	.28	.35
28	.07	.08	.07	.45	.31	.66	.58	1.91	.69	.43	.27	.31
29	.08	.07	.07	.50	.30	.63	.40	.69	.68	.43		.28
30	.08	.07	.07	.46	.29	.39	.25	.54	.67	.43		.27
31		.07		.46	.28		.12		.67	.43		.27
Mean	0.30	0.07	0.07	0.22	0.30	1.08	1.85	1.33	0.96	0.52	0.35	0.30
Max.	0.31	0.10	0.09	0.50	0.48	3.45	3.65	2.79	1.43	0.67	0.42	0.42
Min.	0.07	0.07	0.06	0.07	0.20	0.27	1.12	0.46	0.67	0.43	0.27	0.22

WATER YEAR 1972 : Max. 3.65 m. Min. 0.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.32	0.32	0.32	4.32	2.46	27	18	32	8.24	3.48	1.70
2	0.28	0.32	0.32	0.32	3.62	2.82	24	15	30	8.02	3.62	1.70
3	0.28	0.32	0.32	0.36	3.06	2.00	21	13	27	7.58	3.34	1.70
4	0.28	0.28	0.32	0.32	2.94	1.80	31	12	24	7.14	3.20	1.60
5	0.28	0.28	0.32	0.36	2.58	1.70	113	11	21	7.14	3.20	1.50
6	0.58	0.28	0.32	0.36	2.12	1.70	197	14	20	6.92	3.20	1.50
7	0.36	0.28	0.32	0.36	2.00	10	108	27	18	6.70	3.18	1.40
8	0.32	0.28	0.36	0.46	1.80	172	61	23	18	6.49	3.18	1.50
9	0.32	0.28	0.28	0.36	1.70	122	43	25	19	6.28	3.06	1.60
10	0.32	0.28	0.28	0.32	1.40	52	38	27	21	6.07	3.06	1.80
11	0.32	0.28	0.36	0.28	1.20	28	39	23	18	6.07	3.06	1.70
12	0.52	0.28	0.36	0.32	1.10	21	62	20	16	5.86	2.94	1.70
13	2.12	0.28	0.32	2.34	1.00	15	55	18	16	5.65	2.82	1.50
14	0.94	0.28	0.28	3.20	1.00	11	65	16	26	5.44	2.70	1.30
15	0.58	0.28	0.28	2.34	1.60	9.14	90	14	21	5.02	2.70	1.20
16	0.45	0.28	0.28	1.90	1.00	7.80	86	12	18	4.81	2.58	1.30
17	0.70	0.28	0.28	1.90	1.70	6.49	71	16	16	4.60	2.58	2.12
18	0.58	0.28	0.24	1.80	2.12	7.14	70	14	15	4.60	2.58	3.06
19	0.32	0.28	0.24	1.60	2.58	10	55	5.65	14	4.60	2.46	2.94
20	0.32	0.28	0.24	1.10	2.58	12	52	4.04	13	4.46	2.34	3.48
21	0.32	0.40	0.24	0.94	2.34	27	43	66	12	4.46	2.12	3.20
22	0.32	0.32	0.24	0.88	2.12	20	37	63	11	4.32	2.00	2.70
23	0.32	0.32	0.24	0.82	2.12	16	50	63	11	4.32	2.00	2.46
24	0.32	0.32	0.24	0.82	2.00	16	35	50	10	4.18	2.00	2.82
25	0.32	0.32	0.28	1.30	1.90	18	28	107	9.86	4.04	1.90	2.94
26	0.28	0.32	0.28	2.12	1.90	28	30	75	9.62	4.04	1.90	3.20
27	0.28	0.32	0.28	2.12	2.12	47	36	59	9.14	3.76	1.80	2.70
28	0.28	0.32	0.28	3.90	2.12	41	38	52	8.68	3.62	1.70	2.12
29	0.32	0.28	0.28	4.60	2.00	40	31	43	8.46	3.62		1.80
30	0.32	0.28	0.28	4.04	1.90	32	26	37	8.24	3.62		1.70
31		0.28		4.04	1.80		21		8.24	3.62		1.70
Total	13.24	9.20	8.68	45.90	63.14	781.05	1,683	942.69	509.24	165.29	74.70	63.64
Mean	0.44	0.30	0.29	1.48	2.04	26.0	54.3	31.4	16.4	5.33	2.67	2.05
Max.	2.12	0.40	0.36	4.60	4.32	172	197	107	32	8.24	3.48	3.48
Min.	0.28	0.28	0.24	0.28	1.00	1.70	21	4.04	8.24	3.62	1.70	1.20
Runoff - mcm.	1.144	0.795	0.750	3.966	5.455	67.483	145.411	81.448	43.998	14.281	6.454	5.498

WATER YEAR 1972 : Max. 197 Min. 0.28 Mean 11.9 Annual Runoff 376.684 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	03.00	3.92	230				

SAKAE KRANG RIVER BASIN

Huai Thap Salao at Ban Tha Manao, Uthai Thani (ct6)

Location: Lat. 15°-31'-18" N., Long. 99°-28'-23" E., on left bank about 3 kilometers upstream from Ban Pak Muang weir at Ban Tha Mango, Amphoe Ban Rai, UthaiThani.

Drainage Area: 519 Sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 113.006 m. (M.S.L.)

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

Location: near the Meteorological Station
Elevation: + 117.639 m. (M.S.L.)

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

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

Period of Available Gage Records: 1969-1975

Rating Operation:

Period of Rating: 1969-1974
Rated by Float: -
Rated by Current Meter: 1969-1974

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

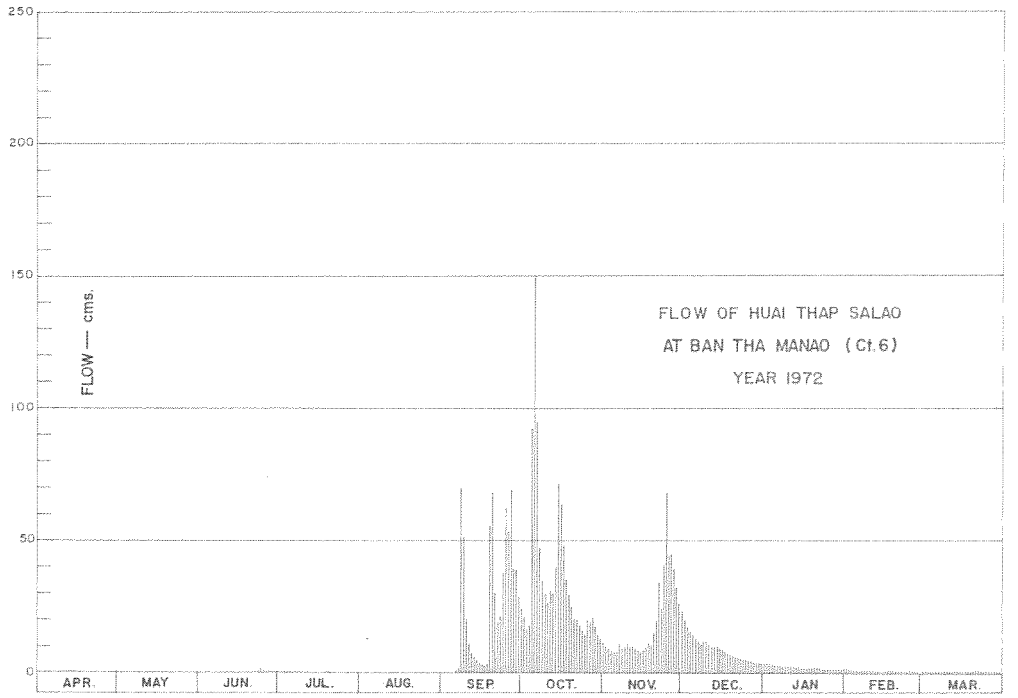
Overbank Flow Conditions: Overbank flow starts at elevation + 115.50 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 315 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	113.22	113.21	113.20	113.30	113.14	113.15	114.48	114.09	114.46	113.67	113.46	113.35
2	.22	.21	.20	.29	.15	.14	.40	.04	.39	.67	.46	.35
3	.21	.20	.19	.28	.14	.15	.28	.00	.31	.66	.45	.34
4	.21	.20	.23	.26	.15	.15	.29	113.96	.24	.65	.45	.34
5	.21	.20	.30	.26	.15	.15	115.94	.93	.18	.64	.44	.34
6	113.21	113.21	113.31	113.24	113.16	113.17	116.36	113.93	114.14	113.63	113.44	113.33
7	.21	.20	.30	.23	.16	.53	115.52	114.06	.10	.63	.43	.33
8	.21	.19	.29	.22	.16	115.43	.00	113.96	.07	.62	.43	.33
9	.21	.19	.27	.21	.16	.14	114.75	114.00	.12	.61	.43	.33
10	.20	.18	.26	.20	.17	114.40	.63	.05	.12	.60	.42	.34
11	113.20	113.18	113.25	113.19	113.17	114.05	114.56	114.00	114.05	113.59	113.42	113.35
12	.23	.18	.24	.18	.17	113.90	.65	.03	.01	.58	.41	.34
13	.22	.18	.24	.18	.18	.83	.62	113.99	.02	.57	.41	.33
14	.23	.18	.23	.17	.17	.74	.85	.94	.04	.56	.41	.33
15	.23	.17	.23	.17	.16	.70	115.44	.92	113.99	.55	.40	.33
16	113.24	113.17	113.24	113.17	113.16	113.67	115.33	114.00	113.96	113.55	113.40	113.32
17	.25	.17	.23	.16	.16	.63	.03	113.98	.94	.55	.42	.32
18	.27	.17	.23	.16	.15	.63	114.76	114.07	.90	.54	.42	.32
19	.26	.19	.22	.16	.15	115.15	.64	.04	.88	.53	.41	.32
20	.25	.18	.21	.16	.15	.40	.50	.17	.85	.52	.40	.32
21	113.25	113.17	113.24	113.15	113.15	114.64	114.39	114.39	113.83	113.51	113.39	113.33
22	.24	.17	.29	.15	.15	.36	.39	.73	.81	.50	.39	.33
23	.23	.17	.35	.15	.14	.38	.34	.48	.79	.50	.38	.34
24	.23	.18	.46	.15	.14	.80	.24	.86	.78	.49	.37	.35
25	.22	.20	.41	.15	.14	115.29	.18	115.40	.77	.49	.37	.36
26	113.22	113.19	113.38	113.14	113.14	115.11	114.37	114.94	113.76	113.49	113.36	113.40
27	.23	.19	.39	.14	.14	.42	.34	.97	.75	.48	.36	.38
28	.21	.20	.37	.14	.13	114.83	.40	.86	.74	.47	.35	.36
29	.21	.21	.34	.14	.13	.84	.27	.65	.71	.47		.35
30	.21	.20	.32	.14	.13	.61	.20	.53	.69	.47		.34
31		.20		.14	.15		.14		.68	.46		.33
Mean	113.22	113.19	113.28	113.19	113.15	114.21	114.69	114.27	113.97	113.56	113.41	113.34
Max.	113.27	113.21	113.46	113.30	113.18	115.43	116.36	115.40	114.46	113.67	113.46	113.40
Min.	113.20	113.17	113.19	113.14	113.13	113.14	114.14	113.92	113.68	113.46	113.35	113.32

WATER YEAR 1972 : Max. 116.36 m. Min. 113.13 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.15	0.13	0.10	0.37	0.04	0.05	24	12	23	3.36	1.06	0.43
2	0.15	0.13	0.10	0.34	0.05	0.04	21	10	20	3.36	1.06	0.43
3	0.13	0.10	0.09	0.32	0.04	0.05	17	9.50	18	3.21	0.99	0.39
4	0.13	0.10	0.18	0.26	0.05	0.05	17	8.62	16	3.07	0.99	0.39
5	0.13	0.10	0.37	0.26	0.05	0.05	106	7.96	14	2.93	0.92	0.39
6	0.13	0.13	0.42	0.21	0.06	0.07	150	7.96	13	2.78	0.92	0.35
7	0.13	0.13	0.37	0.18	0.06	1.85	76	11	12	2.78	0.85	0.35
8	0.13	0.09	0.34	0.15	0.06	70	47	8.62	11	2.64	0.85	0.35
9	0.13	0.09	0.29	0.13	0.06	54	35	9.50	12	2.49	0.85	0.35
10	0.10	0.08	0.26	0.10	0.07	21	30	11	12	2.35	0.79	0.39
11	0.10	0.08	0.23	0.09	0.07	11	27	9.50	11	2.25	0.79	0.43
12	0.18	0.08	0.21	0.08	0.07	7.30	31	10	9.73	2.15	0.72	0.39
13	0.15	0.08	0.21	0.08	0.08	5.97	29	9.28	9.96	2.04	0.72	0.35
14	0.18	0.08	0.18	0.07	0.07	4.43	40	8.18	10	1.94	0.72	0.35
15	0.18	0.07	0.18	0.07	0.06	3.79	71	7.74	9.28	1.84	0.65	0.35
16	0.21	0.07	0.21	0.07	0.06	3.41	64	9.50	8.62	1.84	0.65	0.31
17	0.23	0.07	0.18	0.06	0.06	2.91	48	9.06	8.18	1.84	0.79	0.31
18	0.29	0.07	0.18	0.06	0.05	2.91	35	11	7.30	1.74	0.79	0.31
19	0.26	0.09	0.15	0.06	0.05	55	30	10	6.92	1.64	0.72	0.31
20	0.23	0.08	0.13	0.06	0.05	68	24	14	6.35	1.53	0.65	0.31
21	0.23	0.07	0.21	0.05	0.05	30	20	20	5.97	1.43	0.61	0.35
22	0.21	0.07	0.34	0.05	0.05	19	20	34	5.59	1.33	0.61	0.35
23	0.18	0.07	0.61	0.05	0.04	20	19	24	5.24	1.33	0.56	0.39
24	0.18	0.08	1.28	0.05	0.04	37	16	40	5.08	1.26	0.52	0.43
25	0.15	0.10	0.93	0.05	0.04	62	14	68	4.92	1.26	0.52	0.48
26	0.15	0.09	0.76	0.04	0.04	53	20	44	4.76	1.26	0.48	0.65
27	0.18	0.09	0.81	0.04	0.04	69	19	45	4.59	1.19	0.48	0.56
28	0.13	0.10	0.71	0.04	0.03	39	21	40	4.43	1.13	0.43	0.48
29	0.13	0.13	0.57	0.04	0.03	39	17	31	3.95	1.13		0.43
30	0.13	0.10	0.47	0.04	0.03	29	14	28	3.66	1.13		0.39
31		0.10		0.04	0.03		13		3.50	1.06		0.35
Total	4.99	2.82	11.07	3.51	1.60	708.88	1,115	566.42	290.03	61.29	20.69	12.10
Mean	0.17	0.09	0.37	0.11	0.05	23.6	40	18.9	9.36	2.00	0.74	0.39
Max.	0.29	0.13	1.28	0.37	0.08	70	150	68	23	3.36	1.06	0.65
Min.	0.10	0.07	0.09	0.04	0.03	0.04	13	7.74	3.50	1.06	0.43	0.31
Runoff - MCM.	0.431	0.244	0.956	0.303	0.138	61.247	96.336	48.939	25.059	5.295	1.788	1.045

WATER YEAR 1972 : Max. 150 Min. 0.03 Mean 7.67 Annual Runoff 241.782 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	06.00	116.64	196				

THA CHIN RIVER BASIN

Huai Kra Sieo at Ban Dan Chang, Suphan Buri (T3B)

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. - T3B

Location: Infront of the Automatic 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: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

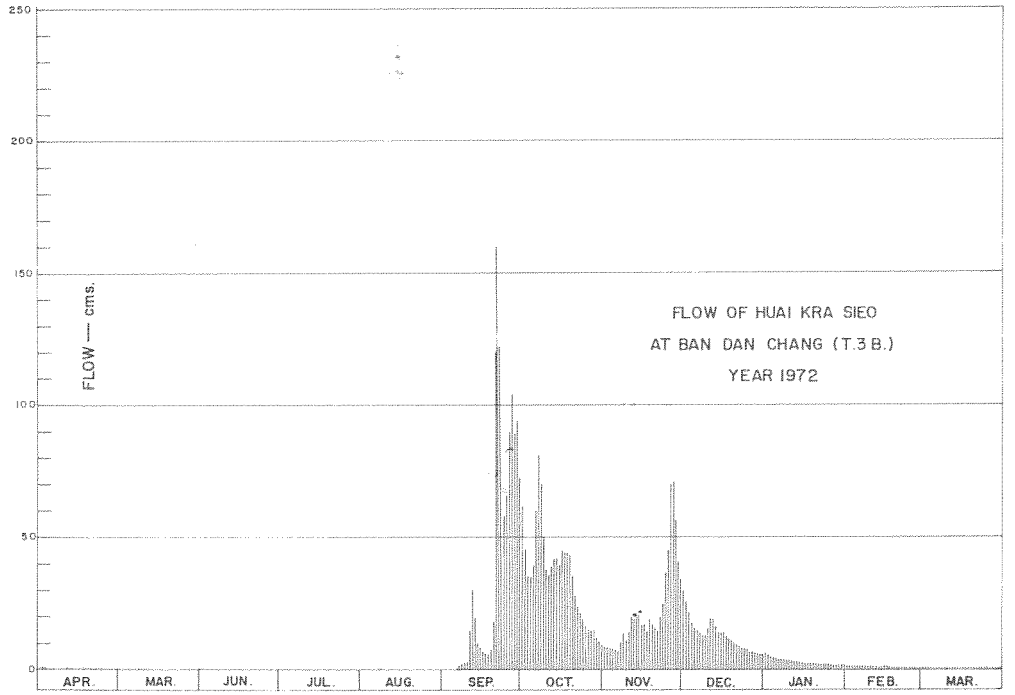
Overbank Flow Conditions: Overbank flow start at elevation + 63.10 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 202 discharge measurements made in 1971. Flow under construction of Kra Sieo Dam.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	57.30	57.35	57.29	57.26	57.26	57.26	61.07	58.59	60.02	58.25	57.58	57.42
2	.41	.35	.28	.26	.26	.26	60.57	.53	59.79	.19	.56	.42
3	.37	.35	.29	.26	.26	.26	.28	.48	.57	.13	.56	.39
4	.33	.35	.27	.26	.26	.26	.29	.43	.33	.12	.55	.39
5	.31	.34	.27	.26	.26	.27	.43	.42	.22	.07	.55	.39
6	57.31	57.30	57.26	57.26	57.26	57.29	61.01	58.36	59.12	58.03	57.55	57.39
7	.30	.30	.26	.26	.26	.61	.57	.82	.05	.00	.54	.39
8	.30	.30	.26	.26	.29	.73	.46	59.07	58.97	57.98	.53	.39
9	.30	.30	.26	.26	.31	.76	60.79	58.80	59.00	.95	.53	.37
10	.31	.30	.26	.26	.28	.83	.39	59.08	.17	.93	.53	.37
11	57.33	57.30	57.26	57.26	57.26	59.22	60.31	59.48	59.39	57.91	57.52	57.37
12	.33	.30	.26	.26	.26	60.04	.43	.43	.40	.90	.52	.37
13	.34	.27	.26	.27	.28	59.23	.52	.45	.19	.87	.50	.37
14	.33	.26	.26	.27	.33	58.73	.53	.51	.07	.85	.50	.37
15	.32	.26	.26	.26	.30	.46	.41	.27	.08	.84	.50	.36
16	57.40	57.26	57.26	57.26	57.29	58.35	60.62	59.26	59.08	57.82	57.50	57.36
17	.44	.26	.26	.26	.27	.27	.59	.09	58.95	.79	.49	.36
18	.45	.26	.26	.26	.27	.16	.58	.40	.86	.77	.47	.36
19	.45	.26	.26	.26	.27	.46	.56	.27	.77	.76	.46	.36
20	.41	.26	.26	.26	.27	59.28	.28	.19	.69	.74	.46	.36
21	57.39	57.26	57.26	57.26	57.27	63.10	59.94	59.09	58.62	57.74	57.45	57.36
22	.37	.26	.26	.26	.27	62.42	.67	.38	.57	.74	.45	.36
23	.38	.31	.26	.26	.26	61.73	.51	.76	.50	.72	.44	.37
24	.40	.29	.26	.26	.26	.01	.32	60.33	.47	.69	.43	.39
25	.35	.27	.26	.27	.26	.21	.20	.63	.41	.68	.43	.38
26	57.35	57.27	57.26	57.28	57.26	61.76	59.11	61.30	58.36	57.66	57.42	57.38
27	.35	.29	.26	.27	.26	62.08	.11	.33	.33	.64	.42	.38
28	.35	.27	.26	.27	.26	61.74	.16	60.83	.30	.61	.42	.38
29	.35	.27	.26	.27	.26	.85	58.86	.45	.25	.61	-	.38
30	.35	.27	.26	.27	.26	.29	.75	.24	.25	.60	-	.38
31	-	.29	-	.27	.26	-	.58	-	.25	.59	-	.38
Mean	57.36	57.29	57.26	57.26	57.27	59.36	60.12	59.44	59.44	57.84	57.49	57.38
Max.	57.45	57.35	57.29	57.28	57.33	63.10	61.57	61.33	60.02	58.25	57.58	57.42
Min.	57.30	57.26	57.26	57.26	57.26	57.26	58.58	58.36	58.25	57.59	57.42	57.36

WATER YEAR 1972 : Max. 63.10 m. Min. 57.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	0.50	0.28	0.22	0.22	0.22	61	9.10	30	6.00	1.50	0.78
2	0.74	0.50	0.26	0.22	0.22	0.22	43	8.50	25	5.52	1.40	0.78
3	0.58	0.50	0.28	0.22	0.22	0.22	35	8.02	22	5.04	1.40	0.66
4	0.42	0.50	0.24	0.22	0.22	0.22	35	7.57	18	4.96	1.35	0.66
5	0.34	0.46	0.24	0.22	0.22	0.24	39	7.48	16	4.56	1.35	0.66
6	0.34	0.30	0.22	0.22	0.22	0.28	58	6.94	15	4.24	1.35	0.66
7	0.30	0.30	0.22	0.22	0.22	1.65	81	11	14	4.00	1.30	0.66
8	0.30	0.30	0.22	0.22	0.28	2.28	76	14	13	3.86	1.25	0.66
9	0.30	0.30	0.22	0.22	0.34	2.48	50	11	13	3.65	1.25	0.58
10	0.34	0.30	0.22	0.22	0.26	2.88	38	14	16	3.51	1.25	0.58
11	0.42	0.30	0.22	0.22	0.22	16	36	20	19	3.37	1.20	0.58
12	0.42	0.30	0.22	0.22	0.22	30	39	19	19	3.30	1.20	0.58
13	0.46	0.24	0.22	0.24	0.26	16	42	20	16	3.12	1.10	0.58
14	0.42	0.22	0.22	0.24	0.42	10	42	21	14	3.00	1.10	0.58
15	0.38	0.22	0.22	0.22	0.30	7.84	39	17	14	2.94	1.10	0.54
16	0.70	0.22	0.22	0.22	0.28	6.85	45	17	14	2.82	1.10	0.54
17	0.86	0.22	0.22	0.22	0.24	6.16	44	14	13	2.64	1.06	0.54
18	0.90	0.22	0.22	0.22	0.24	5.28	44	19	12	2.52	0.98	0.54
19	0.90	0.22	0.22	0.22	0.24	7.84	43	17	11	2.46	0.94	0.54
20	0.74	0.22	0.22	0.22	0.24	17	35	16	10	2.34	0.94	0.54
21	0.66	0.22	0.22	0.22	0.24	159	28	14	9.40	2.34	0.90	0.54
22	0.58	0.22	0.22	0.22	0.24	122	23	19	8.90	2.34	0.90	0.54
23	0.62	0.34	0.22	0.22	0.22	88	21	25	8.20	2.22	0.86	0.58
24	0.70	0.28	0.22	0.22	0.22	58	18	36	7.93	2.05	0.82	0.66
25	0.50	0.24	0.22	0.24	0.22	66	16	45	7.39	2.00	0.82	0.62
26	0.50	0.24	0.22	0.26	0.22	90	15	70	6.94	1.90	0.78	0.62
27	0.50	0.28	0.22	0.24	0.22	104	15	71	6.67	1.80	0.78	0.62
28	0.50	0.24	0.22	0.24	0.22	89	15	52	6.40	1.65	0.78	0.62
29	0.50	0.24	0.22	0.24	0.22	94	12	40	6.00	1.65	–	0.62
30	0.50	0.24	0.22	0.24	0.22	69	11	34	6.00	1.60	–	0.62
31	0.50	0.28	–	0.24	0.22	–	9.00	–	6.00	1.55	–	0.62
Total	15.72	9.16	6.80	7.02	7.54	1,072.64	1,108.00	683.61	403.83	94.95	30.76	18.90
Mean	0.52	0.29	0.23	0.23	0.24	35.7	35.7	22.8	13.0	3.06	1.10	0.61
Max.	0.90	0.50	0.28	0.26	0.42	159	81	71	30	6.00	1.50	0.78
Min.	0.30	0.22	0.22	0.22	0.22	0.22	9.00	6.94	6.00	1.55	0.78	0.54
Runoff – mcm.	1.358	0.791	0.587	0.606	0.651	92.676	95.731	59.064	34.891	8.204	2.658	1.633

WATER YEAR 1972 : Max. 159 Min. 0.22 Mean 9.48 Annual Runoff 298.851 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21, 72	14.00	63.54	188				

PA SAK RIVER BASIN

Pasak River at Amphoe Kaeng Khoi, Saraburi (S2)

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. - M.S.

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 backwater effect, no shifting adjustment for flow computation.

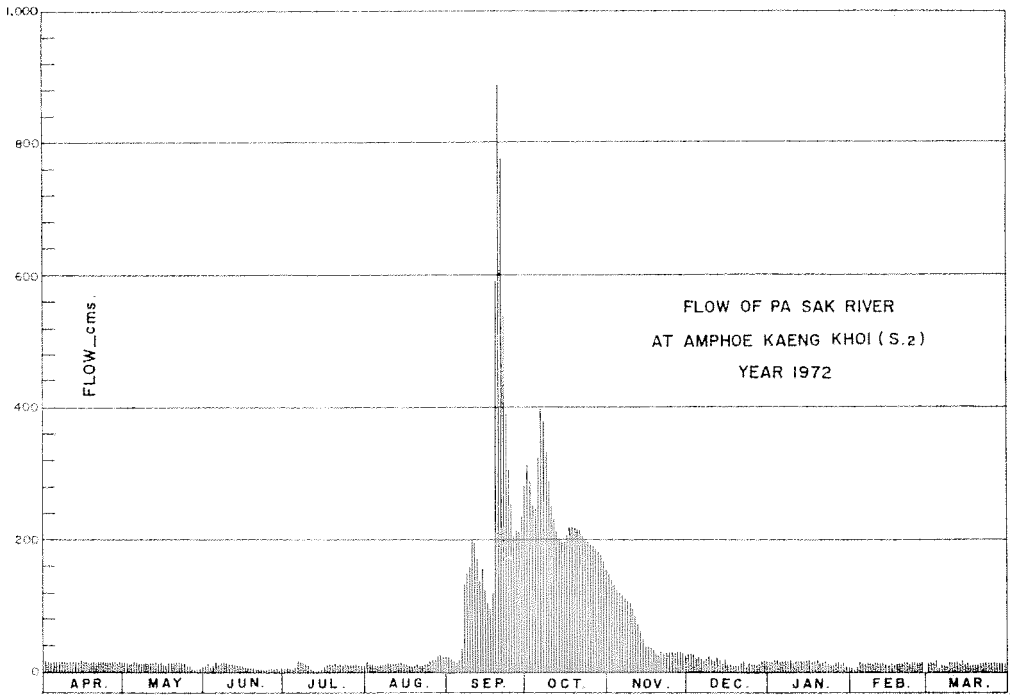
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1972. Flow is diverted for irrigation at about 3,000 hectares above gage site at Lom Sak weir.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.69	7.68	7.60	7.51	7.69	7.83	10.89	9.24	7.93	7.68	7.47	7.61
2	.69	.65	.63	.45	.62	.77	.71	.14	.94	.64	.36	.64
3	.68	.63	.47	.40	.61	.72	.34	.07	.91	.76	.51	.62
4	.71	.69	.61	.48	.58	.68	.27	.00	.80	.73	.68	.72
5	.70	.69	.69	.53	.57	.79	.95	8.94	.82	.68	.65	.38
6	7.69	7.74	7.60	7.72	7.55	8.08	11.59	8.90	7.81	7.67	7.61	7.52
7	.70	.65	.68	.71	.59	9.08	.42	.86	.74	.73	.63	.53
8	.71	.64	.69	.67	.61	.26	.14	.80	.80	.73	.68	.51
9	.67	.67	.67	.65	.65	.38	10.70	.76	.87	.66	.58	.67
10	.72	.66	.63	.55	.62	.79	.34	.64	.76	.60	.64	.64
11	7.71	7.66	7.60	7.33	7.62	9.75	10.11	8.49	7.74	7.73	7.67	7.66
12	.73	.66	.59	.24	.65	.49	9.92	.37	.85	.72	.61	.68
13	.70	.69	.59	.24	.65	.13	.83	.25	.75	.72	.66	.63
14	.74	.62	.57	.34	.70	.36	.77	.12	.63	.72	.56	.65
15	.70	.70	.56	.44	.62	8.97	.79	.05	.80	.72	.53	.58
16	7.70	7.59	7.51	7.56	7.61	8.73	9.89	8.06	7.59	7.75	7.65	7.64
17	.66	.66	.48	.64	.52	.63	.99	.03	.62	.71	.55	.57
18	.65	.71	.49	.64	.53	9.00	10.00	.01	.52	.75	.66	.56
19	.70	.66	.47	.63	.61	14.47	9.99	7.93	.54	.76	.63	.58
20	.67	.69	.43	.70	.61	.74	.95	.93	.51	.58	.64	.62
21	7.68	7.69	7.41	7.60	7.58	13.37	9.91	7.97	7.64	7.70	7.66	7.59
22	.69	.69	.38	.61	.53	12.19	.86	.91	.67	.74	.68	.60
23	.70	.65	.35	.61	.53	11.38	.79	.97	.51	.60	.60	.65
24	.66	.63	.33	.59	.67	10.78	.76	.96	.71	.59	.68	.63
25	.69	.53	.36	.58	.75	.22	.73	.96	.59	.57	.67	.66
26	7.70	7.52	7.42	7.60	7.76	9.87	9.69	7.92	7.58	7.66	7.67	7.62
27	.69	.39	.43	.60	.79	.96	.66	.97	.61	.71	.65	.65
28	.65	.39	.45	.59	.87	.91	.62	.98	.71	.55	.62	.66
29	.69	.44	.36	.54	.88	10.20	.54	.96	.75	.62		.60
30	.68	.51	.45	.57	.85	.68	.46	.88	.75	.49		.59
31		.58		.61	.85		.35		.75	.46		.60
Mean	7.69	7.62	7.52	7.55	7.65	9.84	10.13	8.33	7.72	7.67	7.61	7.61
Max.	7.74	7.69	7.69	7.72	7.88	14.74	11.59	9.24	7.94	7.76	7.68	7.72
Min.	7.66	7.39	7.33	7.24	7.52	7.68	9.35	7.88	7.51	7.46	7.36	7.38

WATER YEAR 1972 : Max. 14.74 m. Min. 7.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	14	11	7.85	15	22	315	147	28	14	6.45	11
2	15	13	12	5.75	12	18	295	138	29	13	3.28	13
3	14	12	6.45	4.00	11	16	254	131	27	18	7.85	12
4	15	15	11	6.80	10	14	247	125	20	16	14	16
5	15	15	15	8.55	9.95	19	321	120	21	14	13	3.64
6	15	13	11	16	9.25	41	398	117	21	14	11	8.20
7	15	13	14	15	11	132	377	114	17	16	12	8.55
8	15	13	15	14	11	148	344	109	20	16	14	7.85
9	14	14	14	13	13	159	294	106	24	13	10	14
10	16	13	12	9.25	12	199	254	96	18	11	13	13
11	15	13	11	2.74	12	195	231	84	17	16	14	13
12	16	13	11	1.42	13	169	212	75	23	16	11	14
13	15	15	11	1.42	13	137	203	62	17	16	13	12
14	17	12	9.95	2.92	15	157	197	45	12	16	9.60	13
15	15	15	9.60	5.40	12	125	199	38	20	16	8.55	10
16	15	11	7.85	9.60	11	103	209	39	11	17	13	13
17	13	13	6.80	13	8.20	95	219	37	12	15	9.25	9.95
18	13	15	7.15	13	8.55	125	220	35	8.20	17	13	9.60
19	15	13	6.45	12	11	836	219	28	8.90	18	12	10
20	14	15	5.05	15	11	888	215	28	7.85	10	13	12
21	14	15	4.35	11	10	645	211	32	13	15	13	11
22	15	15	3.64	11	8.55	470	206	27	14	17	14	11
23	15	13	3.10	11	8.55	373	199	32	7.85	11	11	13
24	13	12	2.74	11	14	303	196	31	15	11	14	12
25	15	8.55	3.28	10	17	242	193	31	11	9.95	14	13
26	15	8.20	4.70	12	18	207	189	28	10	13	14	12
27	15	3.82	5.05	11	19	216	186	32	11	15	13	13
28	13	3.82	5.75	11	24	211	182	32	15	9.25	12	13
29	15	5.40	3.28	8.90	25	240	174	31	17	12		11
30	14	7.85	5.75	9.95	23	292	166	25	17	7.15		11
31		10		11	23		156		17	6.10		11
Total	441	372.64	248.94	294.55	419.05	6,795	7,281	1,975	509.80	428.45	325.98	354.79
Mean	14.7	12.0	8.30	9.50	13.5	226	235	65.8	16.4	13.8	11.6	11.4
Max.	17	15	15	16	25	888	398	147	29	18	14	16
Min.	13	3.82	2.74	1.42	8.20	14	156	25	7.85	6.10	3.28	3.64
Runoff - mcm.	38.102	32.196	21.508	25.449	36.206	587.088	629.078	170.640	44.047	37.018	28.165	30.654

WATER YEAR 1972 : Max. 888 Min. 1.42 Mean 53.3 Annual Runoff 1,680.151 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19	18.00	15.40	970				

PA SAK RIVER BASIN

Lam Muak Lek at highway bridge, Saraburi (S1)

Location: Lat. 14°-38'-04" N., Long. 101°-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. - M.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.

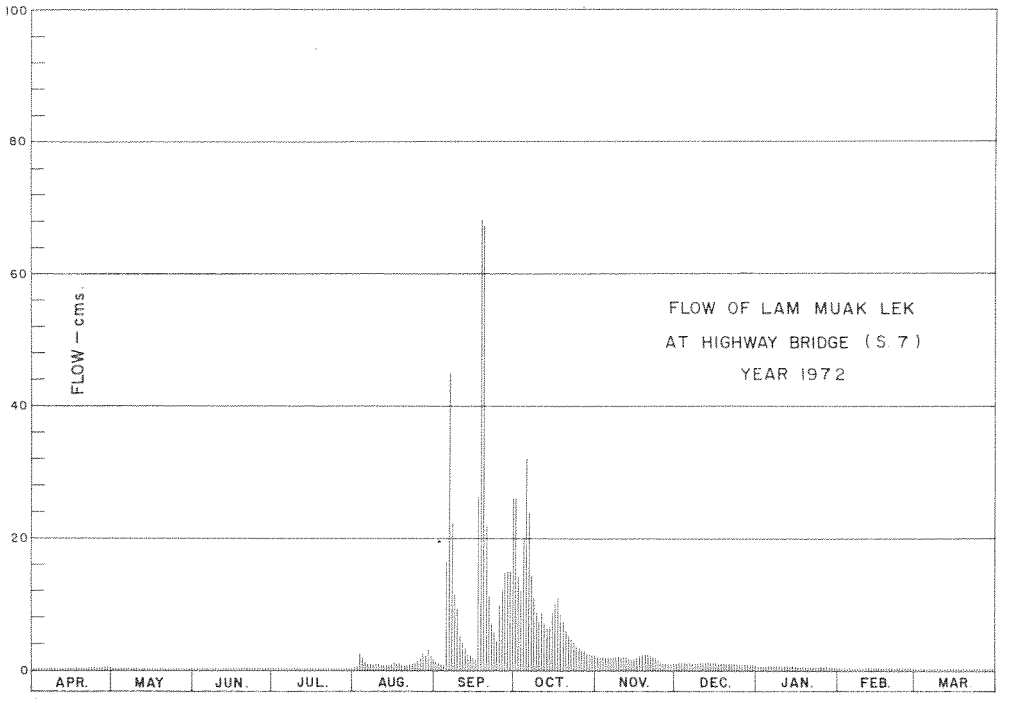
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage discharge relation defined by 47 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.50	0.48	0.46	0.47	0.51	0.61	1.68	0.68	0.61	0.53	0.50	0.49
2	.50	.48	.47	.47	.51	.59	.35	.68	.61	.53	.50	.49
3	.49	.48	.49	.47	.72	.57	.28	.68	.60	.53	.50	.49
4	.49	.50	.48	.47	.62	.56	.38	.69	.59	.53	.50	.49
5	.49	.49	.48	.48	.61	.57	.87	.69	.59	.52	.50	.49
6	0.49	0.48	0.47	0.47	0.59	2.26	1.62	0.69	0.58	0.52	0.50	0.48
7	.48	.48	.47	.47	.58	1.76	.32	.68	.58	.53	.50	.48
8	.48	.48	.47	.48	.58	.18	.16	.72	.59	.53	.51	.48
9	.48	.47	.48	.48	.57	.07	.06	.70	.60	.53	.51	.49
10	.48	.48	.48	.48	.56	0.92	.01	.70	.60	.53	.50	.49
11	0.48	0.47	0.48	0.48	0.55	0.82	1.06	0.68	0.59	0.53	0.50	0.49
12	.48	.47	.48	.49	.55	.77	0.99	.67	.58	.52	.49	.49
13	.48	.46	.48	.49	.56	.72	.94	.66	.58	.52	.50	.49
14	.48	.47	.47	.49	.56	.69	.95	.66	.57	.52	.49	.49
15	.48	.48	.47	.49	.57	.67	1.06	.65	.57	.51	.49	.49
16	0.48	0.48	0.48	0.59	0.60	0.65	1.12	0.71	0.57	0.51	0.49	0.48
17	.48	.48	.47	.59	.60	.63	.17	.71	.57	.51	.49	.49
18	.48	.48	.47	.57	.59	2.42	.06	.69	.57	.51	.49	.49
19	.48	.48	.47	.55	.57	.73	.00	.68	.57	.51	.49	.49
20	.48	.48	.47	.55	.55	1.49	0.95	.68	.57	.51	.49	.49
21	0.48	0.47	0.47	0.55	0.54	1.15	0.91	0.71	0.57	0.51	0.48	0.49
22	.48	.47	.47	.54	.55	0.99	.87	.70	.56	.51	.48	.48
23	.48	.46	.47	.54	.57	.92	.83	.66	.55	.51	.48	.48
24	.48	.47	.47	.56	.62	.89	.81	.65	.55	.51	.48	.48
25	.48	.47	.47	.58	.60	1.04	.79	.64	.55	.51	.48	.48
26	0.48	0.46	0.47	0.58	0.65	1.19	0.77	0.63	0.55	0.51	0.48	0.48
27	.48	.46	.47	.57	.73	.30	.75	.62	.55	.51	.47	.48
28	.48	.46	.47	.55	.69	.31	.73	.62	.54	.50	.48	.48
29	.48	.46	.47	.55	.78	.31	.72	.61	.54	.50		.48
30	.48	.46	.47	.54	.69	.70	.71	.61	.53	.50		.48
31		.46		.53	.64		.69		.53	.50		.48
Mean	0.48	0.47	0.47	0.52	0.60	1.12	1.05	0.67	0.55	0.52	0.49	0.48
Max.	0.50	0.50	0.49	0.59	0.78	2.42	1.87	0.72	0.61	0.53	0.51	0.49
Min.	0.48	0.46	0.46	0.47	0.51	0.56	0.69	0.61	0.53	0.50	0.47	0.48

WATER YEAR 1972 : Max. 2.42 m. Min. 0.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.32	0.24	0.28	0.48	1.31	26	2.08	1.31	0.64	0.40	0.36
2	0.40	0.32	0.28	0.28	0.48	1.12	16	2.08	1.31	0.64	0.40	0.36
3	0.36	0.32	0.36	0.28	2.58	0.96	14	2.08	1.20	0.64	0.40	0.36
4	0.36	0.40	0.32	0.28	1.42	0.88	17	2.19	1.12	0.64	0.40	0.36
5	0.36	0.36	0.32	0.32	1.31	0.96	32	2.19	1.12	0.56	0.40	0.36
6	0.36	0.32	0.28	0.28	1.12	45	24	2.19	1.04	0.56	0.40	0.32
7	0.32	0.32	0.28	0.28	1.04	28	15	2.08	1.04	0.64	0.40	0.32
8	0.32	0.32	0.28	0.32	1.04	12	11	2.58	1.12	0.64	0.48	0.32
9	0.32	0.28	0.32	0.32	0.96	9.11	8.88	2.30	1.20	0.64	0.48	0.36
10	0.32	0.32	0.32	0.32	0.88	5.90	7.73	2.30	1.20	0.64	0.40	0.36
11	0.32	0.28	0.32	0.32	0.80	4.06	8.88	2.08	1.12	0.64	0.40	0.36
12	0.32	0.28	0.32	0.36	0.80	3.28	7.30	1.97	1.04	0.56	0.36	0.36
13	0.32	0.24	0.32	0.36	0.88	2.58	6.30	1.86	1.04	0.56	0.40	0.36
14	0.32	0.28	0.28	0.36	0.88	2.19	6.50	1.86	0.96	0.56	0.36	0.36
15	0.32	0.32	0.28	0.36	0.96	1.97	8.88	1.75	0.96	0.48	0.36	0.36
16	0.32	0.32	0.32	1.12	1.20	1.75	10	2.44	0.96	0.48	0.36	0.32
17	0.32	0.32	0.28	1.12	1.20	1.56	11	2.44	0.96	0.48	0.36	0.36
18	0.32	0.32	0.28	0.96	1.12	68	8.88	2.19	0.96	0.48	0.36	0.36
19	0.32	0.32	0.28	0.80	0.96	67	7.50	2.08	0.96	0.48	0.36	0.36
20	0.32	0.32	0.28	0.80	0.80	20	6.50	2.08	0.96	0.48	0.36	0.36
21	0.32	0.28	0.28	0.80	0.72	11	5.70	2.44	0.96	0.48	0.32	0.36
22	0.32	0.28	0.28	0.72	0.80	7.39	4.96	2.30	0.88	0.48	0.32	0.32
23	0.32	0.24	0.28	0.72	0.96	5.86	4.24	1.86	0.80	0.48	0.32	0.32
24	0.32	0.28	0.28	0.88	1.42	5.37	3.88	1.75	0.80	0.48	0.32	0.32
25	0.32	0.28	0.28	1.04	1.20	8.42	3.56	1.64	0.80	0.48	0.32	0.32
26	0.32	0.24	0.28	1.04	1.75	12	3.28	1.53	0.80	0.48	0.32	0.32
27	0.32	0.24	0.28	0.96	2.72	15	3.00	1.42	0.80	0.48	0.28	0.32
28	0.32	0.24	0.28	0.80	2.19	15	2.72	1.42	0.72	0.48	0.32	0.32
29	0.32	0.24	0.28	0.80	3.42	15	2.58	1.31	0.72	0.40		0.32
30	0.32	0.24	0.28	0.72	2.19	26	2.44	1.31	0.64	0.40		0.32
31		0.24		0.64	1.64		2.19		0.64	0.40		0.32
Total	9.92	9.08	8.76	18.64	39.92	398.67	291.90	59.80	30.14	16.48	10.36	10.60
Mean	0.33	0.29	0.29	0.60	1.29	13.2	9.42	1.99	0.97	0.53	0.37	0.34
Max.	0.40	0.40	0.36	1.12	3.42	68	32	2.58	1.31	0.64	0.48	0.36
Min.	0.32	0.24	0.24	0.28	0.48	0.88	2.19	1.31	0.64	0.40	0.28	0.32
Runoff - mcm.	0.857	0.784	0.757	1.610	3.449	34.445	25.220	5.167	2.604	1.424	0.895	0.916

WATER YEAR 1972 : Max. 68 Min. 0.24 Mean 2.48 Annual Runoff 78.128 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 18	21.00	4.52	167				

PA SAK RIVER BASIN

Nam Phung at Nam Phung Bridge, Phetchabun (S10)

Location: Lat. 16°-56'-50" N., Long. 101°-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. - M.S.

Location: near gage site.
Elevation: + 8.85 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.

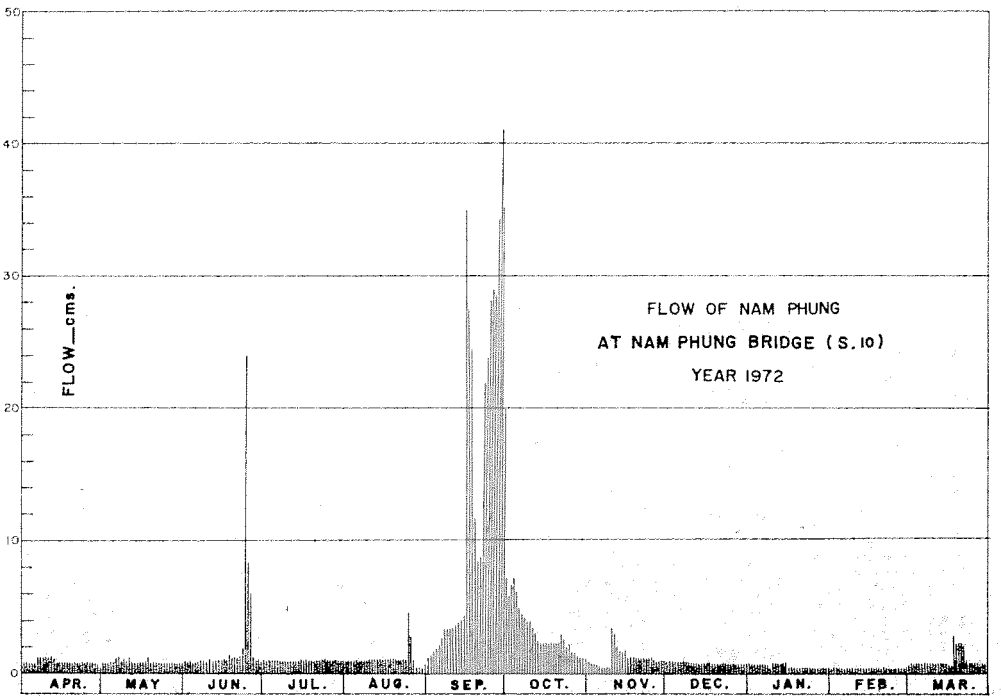
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 82 discharge measurements made in 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.21	0.25	0.26	0.25	0.31	1.09	0.24	0.25	0.20	0.10	0.20
2	.21	.21	.25	.26	.26	.34	0.91	.20	.23	.20	.11	.21
3	.21	.20	.29	.26	.26	.37	1.01	.20	.24	.20	.10	.20
4	.21	.21	.21	.26	.26	.43	.04	.16	.25	.20	.10	.21
5	.23	.21	.22	.26	.25	.46	0.94	.11	.24	.20	.10	.21
6	0.30	0.31	0.25	0.26	0.25	0.52	0.81	0.10	0.25	0.20	0.10	0.21
7	.31	.31	.26	.25	.26	.64	.78	.10	.25	.20	.11	.20
8	.31	.25	.25	.25	.26	.65	.75	.10	.23	.20	.10	.20
9	.31	.30	.24	.25	.28	.65	.72	.13	.21	.10	.10	.21
10	.31	.21	.26	.25	.28	.66	.73	.66	.21	.21	.10	.21
11	0.31	0.31	0.25	0.26	0.28	0.67	0.64	0.58	0.21	0.20	0.10	0.20
12	.31	.21	.26	.25	.28	.68	.60	.44	.20	.21	.11	.21
13	.20	.21	.26	.25	.28	.71	.52	.41	.20	.21	.11	.21
14	.21	.21	.26	.26	.28	.75	.50	.40	.21	.24	.10	.21
15	.21	.21	.26	.28	.28	.78	.51	.42	.21	.24	.10	.20
16	0.21	0.21	0.31	0.28	0.28	2.58	0.51	0.30	0.21	0.10	0.11	0.19
17	.21	.21	.32	.26	.28	.20	.51	.31	.20	.11	.10	.12
18	.21	.31	.36	.25	.28	.10	.51	.32	.20	.10	.10	.57
19	.20	.20	.30	.25	.28	1.40	.51	.31	.21	.10	.11	.50
20	.21	.21	.32	.25	.28	.14	.51	.30	.21	.10	.10	.51
21	0.21	0.21	0.31	0.26	0.28	1.17	0.52	0.30	0.21	0.12	0.11	0.50
22	.21	.21	.34	.26	.28	.13	.60	.30	.20	.11	.10	.44
23	.21	.20	.44	.28	.28	2.00	.54	.30	.20	.11	.10	.22
24	.21	.20	2.10	.28	.31	.11	.44	.31	.20	.11	.10	.21
25	.21	.21	1.16	.26	.78	.30	.50	.31	.20	.11	.10	.21
26	0.20	0.21	0.94	0.25	0.49	2.32	0.40	0.26	0.21	0.11	0.10	0.21
27	.21	.21	.29	.26	.11	.30	.37	.25	.20	.11	.10	.20
28	.21	.21	.24	.26	.13	.40	.33	.25	.20	.10	.10	.20
29	.14	.20	.30	.26	.12	.72	.31	.25	.21	.11	-	.21
30	.10	.21	.24	.25	.10	.80	.31	.25	.20	.11	-	.20
31	-	.21	-	.25	.18	-	.31	-	.20	.10	-	.20
Mean	0.22	0.22	0.39	0.26	0.28	1.31	0.60	0.28	0.21	0.15	0.10	0.25
Max.	0.31	0.31	2.10	0.28	0.78	2.80	1.09	0.66	0.25	0.24	0.11	0.57
Min.	0.10	0.20	0.21	0.25	0.10	0.31	0.31	0.10	0.20	0.10	0.10	0.20

WATER YEAR 1972 : Max. 2.80 m. Min. 0.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.66	0.82	0.99	1.03	0.99	1.25	7.88	0.95	0.99	0.78	0.47	0.78
2	0.82	0.82	0.99	1.03	1.03	1.40	5.81	0.78	0.91	0.78	0.50	0.82
3	0.82	0.78	1.16	1.03	1.03	1.65	6.92	0.78	0.95	0.78	0.47	0.78
4	0.82	0.82	0.82	1.03	1.03	1.88	7.28	0.66	0.99	0.78	0.47	0.82
5	0.91	0.82	0.86	1.03	0.99	2.06	6.14	0.50	0.95	0.78	0.47	0.82
6	1.20	1.25	0.99	1.03	0.99	2.44	4.80	0.47	0.99	0.78	0.47	0.82
7	1.25	1.25	1.03	0.99	1.03	3.32	4.52	0.47	0.99	0.78	0.50	0.78
8	1.25	0.99	0.99	0.99	1.03	3.40	4.25	0.47	0.91	0.78	0.47	0.78
9	1.25	1.20	0.95	0.99	1.12	3.40	3.98	0.56	0.82	0.47	0.47	0.82
10	1.25	0.82	1.03	0.99	1.12	3.48	4.07	3.48	0.82	0.82	0.47	0.82
11	1.25	1.25	0.99	1.03	1.12	3.56	3.32	2.86	0.82	0.78	0.47	0.78
12	1.25	0.82	1.03	0.99	1.12	3.64	3.00	1.94	0.78	0.82	0.50	0.82
13	0.78	0.82	1.03	0.99	1.12	3.89	2.44	1.76	0.78	0.82	0.50	0.82
14	0.82	0.82	1.03	1.03	1.12	4.25	2.30	1.70	0.82	0.95	0.47	0.82
15	0.82	0.82	1.03	1.12	1.12	4.52	2.37	1.82	0.82	0.95	0.47	0.78
16	0.82	0.82	1.25	1.12	1.12	35	2.37	1.20	0.82	0.47	0.50	0.75
17	0.82	0.82	1.30	1.03	1.12	26	2.37	1.25	0.78	0.50	0.47	0.53
18	0.82	1.25	1.50	0.99	1.12	24	2.37	1.30	0.78	0.47	0.47	2.79
19	0.78	0.78	1.20	0.99	1.12	12	2.37	1.25	0.82	0.47	0.50	2.30
20	0.82	0.82	1.30	0.99	1.12	8.48	2.37	1.20	0.82	0.47	0.47	2.37
21	0.82	0.82	1.25	1.03	1.12	8.84	2.44	1.20	0.82	0.53	0.50	2.30
22	0.82	0.82	1.40	1.03	1.12	8.36	3.00	1.20	0.78	0.50	0.47	1.94
23	0.82	0.78	1.94	1.12	1.12	22	2.56	1.20	0.78	0.50	0.47	0.86
24	0.82	0.78	24	1.12	1.25	24	1.94	1.25	0.78	0.50	0.47	0.82
25	0.82	0.82	8.72	1.03	4.52	28	2.30	1.25	0.78	0.50	0.47	0.82
26	0.78	0.82	6.14	0.99	2.24	29	1.70	1.03	0.82	0.50	0.47	0.82
27	0.82	0.82	1.16	1.03	0.50	28	1.55	0.99	0.78	0.50	0.47	0.78
28	0.82	0.82	0.95	1.03	0.56	31	1.35	0.99	0.78	0.47	0.47	0.78
29	0.59	0.78	1.20	1.03	0.53	39	1.25	0.99	0.82	0.50	–	0.82
30	0.47	0.82	0.95	0.99	0.47	41	1.25	0.99	0.78	0.50	–	0.78
31	–	0.82	–	0.99	0.72	–	1.25	–	0.78	0.47	–	0.78
Total	26.79	27.49	69.18	31.81	35.71	408.72	101.54	36.49	26.06	19.70	13.37	32.30
Mean	0.89	0.89	2.31	1.03	1.15	13.6	3.27	1.22	0.84	0.63	0.48	1.04
Max.	1.25	1.25	24	1.12	4.52	41	7.88	3.48	0.99	0.95	0.50	2.79
Min.	0.47	0.78	0.82	0.99	0.47	1.25	1.25	0.47	0.78	0.47	0.47	0.78
Runoff - mcm.	2.315	2.375	5.977	2.748	3.085	35.313	8.773	3.153	2.251	1.702	1.155	2.791

WATER YEAR 1972 : Max. 41 Min. 0.47 Mean 2.27 Annual Runoff 71.639 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30, 72	06.00	3.00	47				

SALAWIN RIVER BASIN

Huai Mae Lamao at Ban Ko Ko, Tak (Sw1)

Location: Lat. 16°-54'-56" N., Long. 98°-37'-57" E., on right bank at Ban Ko Ko about 14 kilometers south east of Amphoe Mae Ramat between Doi Kala and Doi Mae Phasa, Amphoe Mae Sot, Tak.

Drainage Area: 1,426 Sq.km.

Type of Gage: Staff gage

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

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

Location: along the measuring line.
Elevation: + 5.597 m. (A.D.)

Gage Reading Frequency: 5-7 time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5-7 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.

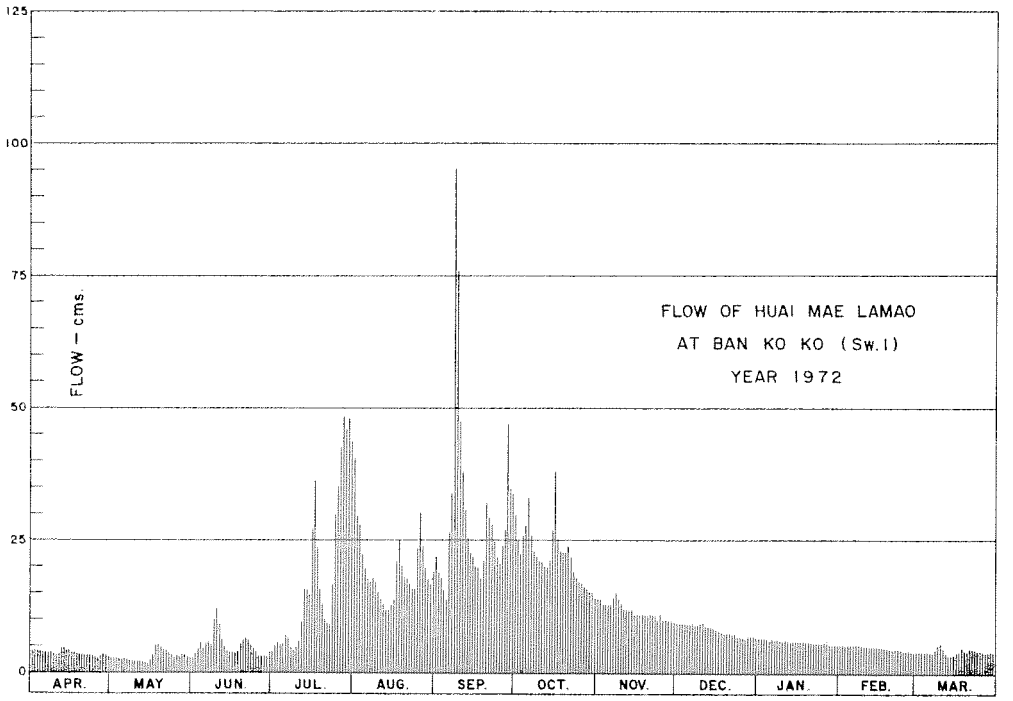
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 150 discharge measurement made in 1968.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.30	0.22	0.22	0.31	1.45	1.00	1.17	0.71	0.56	0.43	0.37	0.30
2	.31	.22	.29	.36	.20	0.90	.08	.71	.55	.43	.37	.30
3	.30	.21	.34	.39	.16	.85	.02	.69	.55	.43	.37	.30
4	.30	.21	.38	.37	.02	.79	.10	.68	.54	.43	.37	.30
5	.29	.21	.33	.38	0.92	.71	.15	.67	.54	.42	.36	.30
6	0.28	0.21	0.38	0.45	0.86	1.10	1.28	0.67	0.54	0.42	0.36	0.30
7	.27	.20	.39	.42	.83	.28	.11	.71	.54	.42	.36	.29
8	.27	.20	.35	.34	.87	2.67	.02	.77	.53	.42	.36	.32
9	.26	.19	.58	.32	.82	.14	0.98	.73	.54	.41	.36	.37
10	.25	.19	.65	.34	.74	1.62	.97	.67	.55	.41	.35	.38
11	0.27	0.18	0.49	0.40	0.72	1.35	0.96	0.65	0.54	0.41	0.35	0.33
12	.32	.18	.40	.58	.69	.22	.92	.65	.53	.41	.35	.28
13	.33	.17	.34	.78	.65	.10	.92	.64	.53	.40	.35	.26
14	.30	.17	.30	.78	.66	.03	.99	.63	.52	.40	.35	.26
15	.30	.15	.29	.74	.69	0.98	1.11	.62	.51	.40	.34	.26
16	0.28	0.20	0.29	1.00	0.72	0.94	1.41	0.62	0.49	0.40	0.34	0.28
17	.28	.28	.29	.37	.92	.93	.08	.62	.49	.40	.34	.30
18	.27	.42	.30	.11	1.08	.87	.02	.62	.48	.40	.34	.34
19	.26	.37	.37	0.78	0.92	.96	.02	.61	.48	.39	.33	.32
20	.26	.34	.40	.67	.85	1.26	.02	.60	.47	.39	.33	.30
21	0.25	0.31	0.43	0.58	0.85	1.18	1.06	0.62	0.47	0.38	0.33	0.33
22	.25	.30	.40	.54	.82	.16	0.98	.62	.46	.38	.33	.34
23	.24	.28	.36	.54	.80	.07	.90	.60	.46	.38	.32	.33
24	.23	.25	.32	.81	.80	0.98	.86	.59	.45	.38	.32	.31
25	.22	.23	.28	1.24	1.02	.96	.84	.60	.45	.38	.31	.30
26	0.21	0.25	0.26	1.36	1.22	1.05	0.82	0.59	0.45	0.38	0.31	0.30
27	.24	.25	.24	.52	.06	.14	.80	.59	.45	.38	.30	.29
28	.26	.26	.25	.66	0.94	.64	.78	.58	.44	.37	.30	.29
29	.26	.25	.26	.60	.86	.34	.76	.58	.44	.37	-	.30
30	.23	.23	.29	.67	.82	.30	.75	.56	.44	.37	-	.29
31	-	.22	-	.53	.90	-	.73	-	.44	.37	-	.28
Mean	0.27	0.24	0.35	0.80	0.90	1.18	1.00	0.64	0.50	0.40	0.34	0.30
Max.	0.33	0.42	0.65	1.67	1.45	2.67	1.41	0.77	0.56	0.43	0.37	0.38
Min.	0.21	0.15	0.22	0.31	0.65	0.71	0.73	0.56	0.44	0.37	0.30	0.26

WATER YEAR 1972 : Max. 2.67 m. Min. 0.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.00	2.72	2.72	4.20	40	22	29	14	9.76	6.66	5.40	4.00
2	4.20	2.72	3.84	5.20	30	19	25	14	9.50	6.66	5.40	4.00
3	4.00	2.56	4.80	5.80	28	18	23	13	9.50	6.66	5.40	4.00
4	4.00	2.56	5.60	5.40	23	16	26	13	9.24	6.66	5.40	4.00
5	3.84	2.56	4.60	5.60	20	14	28	13	9.24	6.44	5.20	4.00
6	3.68	2.56	5.60	7.10	18	26	33	13	9.24	6.44	5.20	4.00
7	3.52	2.40	5.80	6.44	17	33	26	14	9.24	6.44	5.20	3.84
8	3.52	2.40	5.00	4.80	18	95	23	15	8.98	6.44	5.20	4.40
9	3.36	2.25	10	4.40	17	70	22	14	9.24	6.22	5.20	5.40
10	3.20	2.25	12	4.80	15	46	21	13	9.50	6.22	5.00	5.60
11	3.52	2.10	7.98	6.00	14	36	21	12	9.24	6.22	5.00	4.60
12	4.40	2.10	6.00	10	13	30	20	12	8.98	6.22	5.00	3.68
13	4.60	1.95	4.80	16	12	26	20	12	8.98	6.00	5.00	3.36
14	4.00	1.95	4.00	16	12	23	22	12	8.72	6.00	5.00	3.36
15	4.00	1.65	3.84	15	13	22	26	11	8.46	6.00	4.80	3.36
16	3.68	2.40	3.84	22	14	20	38	11	7.98	6.00	4.80	3.68
17	3.68	3.68	3.84	36	20	20	25	11	7.98	6.00	4.80	4.00
18	3.52	6.22	4.00	26	25	18	23	11	7.76	6.00	4.80	4.80
19	3.36	5.40	5.40	16	20	21	23	11	7.76	5.80	4.60	4.40
20	3.36	4.80	6.00	13	18	32	23	11	7.54	5.80	4.60	4.00
21	3.20	4.20	6.66	10	18	29	24	11	7.54	5.60	4.60	4.60
22	3.20	4.00	6.00	9.24	17	28	22	11	7.32	5.60	4.60	4.80
23	3.04	3.68	5.20	9.24	16	25	19	11	7.32	5.60	4.40	4.60
24	2.88	3.20	4.40	17	16	22	18	10	7.10	5.60	4.40	4.20
25	2.72	2.88	3.68	31	23	21	17	11	7.10	5.60	4.10	4.00
26	2.56	3.20	3.36	36	30	24	17	10	7.10	5.60	4.10	4.00
27	3.04	3.20	3.04	42	24	27	16	10	7.10	5.60	4.00	3.84
28	3.36	3.36	3.20	48	20	47	16	10	6.88	5.40	4.00	3.84
29	3.36	3.20	3.36	46	18	35	15	10	6.88	5.40	–	4.00
30	2.88	2.88	3.84	48	17	34	15	9.76	6.88	5.40	–	3.84
31	–	2.72	–	43	19	–	14	–	6.88	5.40	–	3.68
Total	105.68	93.75	152.40	569.22	605	899	690	353.76	254.94	185.68	135.20	127.88
Mean	3.52	3.02	5.08	18.4	19.5	30.0	22.2	11.8	8.22	5.99	4.83	4.12
Max.	4.60	6.22	12	48	40	95	38	15	9.76	6.66	5.40	5.60
Min.	2.56	1.65	2.72	4.20	12	14	14	9.76	6.88	5.40	4.00	3.36
Runoff - mcm.	9.131	8.100	13.167	49.181	52.272	77.674	59.616	30.565	22.027	16.043	11.681	11.049

WATER YEAR 1972 : Max. 95 Min. 1.65 Mean 11.4 Annual Runoff 360.505 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8, 72	13.00	3.02	114				

SALAWIN RIVER BASIN

Huai Mae Lamao at Mae Lamao Bridge, Tak (SW6)

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. - M.S.

Location: about 6.25 meters from Automatic gage building.
Elevation: + 10.386 m. (A.D.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic 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: Fairly stable, no shifting adjustment for flow computation.

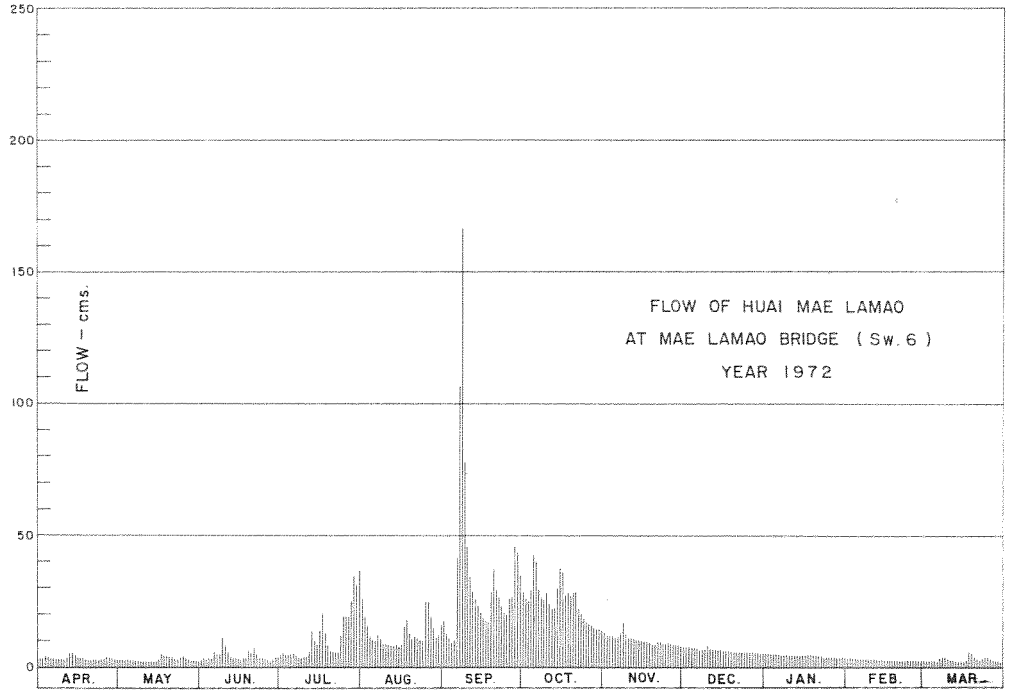
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined 51 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.01	0.98	0.99	1.09	1.83	1.57	1.85	1.48	1.33	1.24	1.17	1.10
2	.02	.97	1.05	.14	.61	.42	.79	.47	.33	.23	.16	.10
3	.04	.97	.00	.09	.52	.34	.74	.46	.33	.23	.16	.10
4	.03	1.01	.04	.10	.39	.29	.85	.45	.32	.23	.16	.10
5	.02	0.97	.01	.08	.32	.27	2.14	.44	.31	.22	1.16	.10
6	1.02	0.96	1.13	1.13	1.28	1.68	2.08	1.45	1.31	1.22	1.15	1.10
7	.00	.95	.09	.08	.38	2.70	1.90	.48	.30	.22	.15	.10
8	.00	.95	.09	.05	.32	3.88	.80	.55	.30	.21	.15	.16
9	.00	.94	.34	.04	.25	2.52	.77	.47	.30	.21	.15	.17
10	.01	.93	.25	.05	.26	.16	.83	.44	.33	.21	1.14	.12
11	1.01	0.93	1.13	1.07	1.25	1.94	1.72	1.43	1.30	1.21	1.14	1.11
12	.10	.93	.07	.16	.20	.83	.67	.42	.29	.21	.14	.10
13	.11	.93	.04	.43	.20	.75	.67	.41	.28	.21	.13	.09
14	.07	.93	.04	.30	.26	.70	.83	.40	.30	.21	.13	.09
15	.03	.93	.03	.24	.20	.65	2.04	.41	.28	.21	1.13	.09
16	1.03	0.98	1.01	1.38	1.27	1.60	2.00	1.39	1.28	1.21	1.12	1.09
17	.02	1.08	.05	.63	.49	.55	1.80	.38	.27	.20	.12	.11
18	.01	.08	.03	.42	.56	.55	.82	.39	.27	.20	.12	.27
19	.00	.08	.16	.24	.40	.80	.79	.36	.27	.20	.12	.25
20	.00	.05	.10	.18	.36	2.03	.83	.36	.26	.20	1.12	.17
21	0.99	1.04	1.20	1.13	1.38	1.84	1.82	1.39	1.26	1.19	1.11	1.14
22	.99	.01	.10	.12	.35	.79	.71	.38	.26	.19	.11	.13
23	.99	0.99	.04	.14	.31	.72	.66	.37	.26	.18	.11	.14
24	.99	1.05	.02	.32	.32	.65	.62	.36	.25	.18	.11	.18
25	.98	.05	.02	.60	.74	.63	.58	.38	.25	.18	.11	.17
26	1.05	1.02	1.00	1.60	1.75	1.78	1.57	1.36	1.25	1.17	1.11	1.13
27	.04	.00	0.99	.60	.56	.80	.56	.36	.24	.17	.11	.11
28	.02	0.99	1.00	.72	.44	2.21	.54	.36	.24	.17	.11	.11
29	0.99	.98	.03	.97	.36	.15	.52	.35	.24	.17		.10
30	.99	.98	.08	.89	.35	1.98	.52	.34	.24	.17		.09
31		.98		2.03	.44		.50		.24	.17		.09
Mean	1.02	0.99	1.07	1.32	1.40	1.86	1.76	1.41	1.28	1.20	1.13	1.13
Max.	1.11	1.08	1.34	2.03	1.83	3.88	2.14	1.55	1.33	1.24	1.17	1.27
Min.	0.98	0.93	0.99	1.04	1.20	1.27	1.50	1.34	1.24	1.17	1.11	1.09

WATER YEAR 1972 : Max. 3.88 m. Min. 0.93 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.91	2.46	2.58	4.59	28	18	29	13	7.76	5.30	3.67	2.20
2	3.12	2.34	3.75	5.72	20	13	27	12	7.76	5.05	3.46	2.20
3	3.54	2.34	2.70	4.59	16	11	25	12	7.76	5.05	3.46	2.20
4	3.33	2.91	3.54	4.80	12	9.44	29	12	7.44	5.05	3.46	2.20
5	3.12	2.34	2.91	4.38	10	8.92	43	11	7.12	4.80	3.46	2.20
6	3.12	2.22	5.49	5.49	9.18	22	40	12	7.12	4.80	3.25	2.20
7	2.70	2.10	4.59	4.38	12	75	31	13	6.80	4.80	3.25	2.20
8	2.70	2.10	4.59	3.75	10	166	27	16	6.80	4.55	3.25	3.46
9	2.70	1.98	11	3.54	8.40	64	26	12	6.80	4.55	3.25	3.67
10	2.91	1.86	8.40	3.75	8.66	44	28	11	7.76	4.55	3.04	2.62
11	2.91	1.86	5.49	4.17	8.40	33	24	11	6.80	4.55	3.04	2.41
12	4.80	1.86	4.17	6.18	7.10	28	22	11	6.55	4.55	3.04	2.20
13	5.03	1.86	3.54	13	7.10	25	22	10	6.30	4.55	2.83	2.05
14	4.17	1.86	3.54	9.70	8.66	23	28	10	6.80	4.55	2.83	2.05
15	3.33	1.86	3.33	8.14	7.10	21	38	10	6.30	4.55	2.83	2.05
16	3.33	2.46	2.91	12	8.92	19	36	9.68	6.30	4.55	2.62	2.05
17	3.12	4.38	3.75	20	15	17	27	9.36	6.05	4.30	2.62	2.41
18	2.91	4.38	3.33	13	18	17	28	9.68	6.05	4.30	2.62	6.05
19	2.70	4.38	6.18	8.14	13	27	27	8.72	6.05	4.30	2.62	5.55
20	2.70	3.75	4.80	6.64	11	37	28	8.72	5.80	4.30	2.62	3.67
21	2.58	3.54	7.10	5.49	12	29	28	9.68	5.80	4.09	2.41	3.04
22	2.58	2.91	4.80	5.26	11	27	22	9.36	5.80	4.09	2.41	2.83
23	2.58	2.58	3.54	5.72	9.99	24	20	9.04	5.80	3.88	2.41	3.04
24	2.58	3.75	3.12	10	10	21	18	8.72	5.55	3.88	2.41	3.88
25	2.46	3.75	3.12	19	25	20	17	9.36	5.55	3.88	2.41	3.67
26	3.75	3.12	2.70	19	25	20	16	8.72	5.55	3.67	2.41	2.83
27	3.54	2.70	2.58	19	18	27	16	8.72	5.30	3.67	2.41	2.41
28	3.12	2.58	2.70	24	14	46	15	8.72	5.30	3.67	2.41	2.41
29	2.58	2.46	3.33	34	11	43	14	8.40	5.30	3.67		2.20
30	2.58	2.46	4.38	31	11	35	14	8.08	5.30	3.67		2.05
31	-	2.46	-	37	14		14		5.30	3.67		2.05
Total	93.50	83.61	127.96	355.43	399.51	976.36	779	310.98	196.67	134.84	80.50	86.05
Mean	3.12	2.70	4.26	11.5	12.9	32.5	25.1	10.4	6.34	4.35	2.87	2.77
Max.	5.03	4.38	11	37	28	166	43	16	7.76	5.30	3.67	6.05
Min.	2.46	1.86	2.58	3.54	7.10	8.92	14	8.08	5.30	3.67	2.41	2.05
Runoff - mcm.	8.078	7.224	11.056	30.709	34.518	84.357	67.306	26.869	16.992	11.650	6.955	7.435

WATER YEAR 1972 : Max. 166 Min. 1.86 Mean 9.93 Annual Runoff 313.149 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7	23.00	4.39	215				

MAE KOK RIVER BASIN

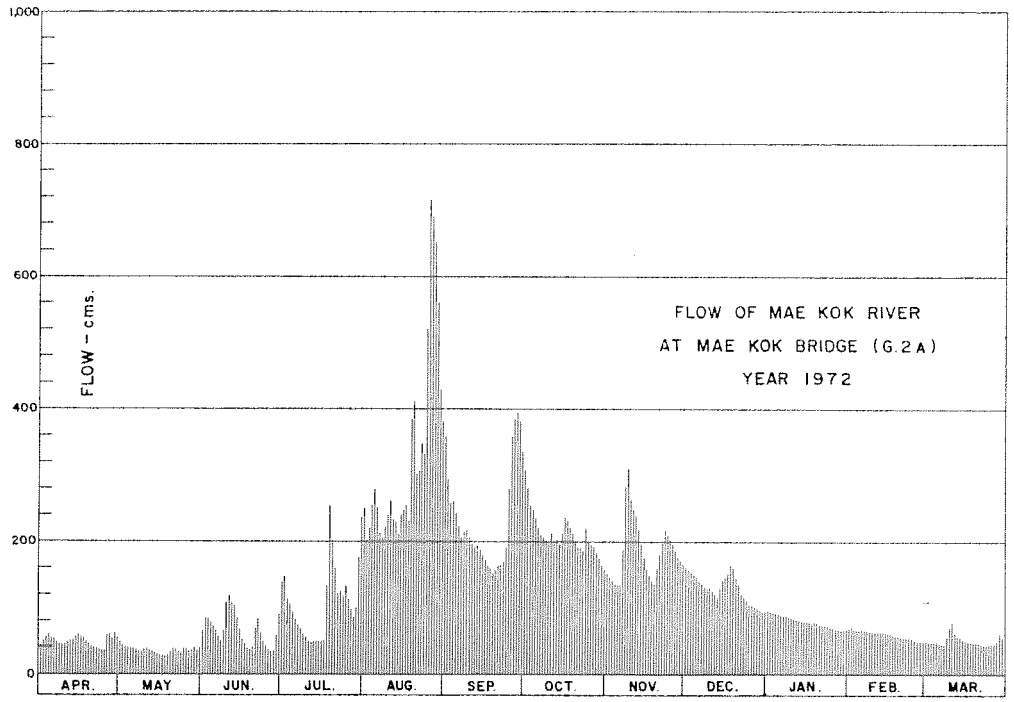
Mae Kok River at Mae Kok Bridge, Chiang Rai (G2A)

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 Chan highway, Amphoe Muang, Chiang Rai.
Drainage Area:	6,063 Sq.km.
Type of Gage:	Water-stage recorder.
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 fair. Stage-discharge relation defined by 95 discharge measurements made in 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.79	390.83	390.89	391.32	391.73	392.03	391.90	391.38	391.42	391.13	390.98	390.84
2	.84	.79	391.05	.36	.57	391.84	.81	.37	.41	.13	.98	.84
3	.88	.77	.07	.23	.63	.75	.74	.35	.39	.11	.97	.84
4	.91	.76	.03	.19	.75	.76	.72	.32	.38	.11	.96	.83
5	.89	.75	390.99	.14	.81	.72	.69	.32	.37	.10	.96	.83
6	390.87	390.74	390.96	391.04	391.72	391.64	391.63	391.32	391.35	391.10	390.96	390.82
7	.83	.74	.88	.01	.61	.58	.60	.42	.32	.09	.96	.81
8	.80	.71	.84	390.97	.58	.61	.59	.83	.30	.09	.95	.81
9	.80	.70	.94	.92	.62	.62	.57	.91	.29	.08	.95	.88
10	.78	.75	391.16	.87	.72	.60	.56	.78	.30	.07	.94	.99
11	390.82	390.75	391.24	390.84	391.76	391.55	391.61	391.73	391.29	391.07	390.94	391.03
12	.83	.73	.20	.82	.68	.53	.55	.70	.26	.06	.94	390.93
13	.84	.71	.17	.84	.66	.54	.58	.62	.23	.05	.94	.89
14	.88	.68	.09	.84	.60	.52	.55	.54	.29	.05	.93	.88
15	.91	.66	390.96	.84	.69	.48	.59	.48	.35	.04	.93	.86
16	390.89	390.65	390.86	390.84	391.72	391.46	391.68	391.43	391.37	391.04	390.92	390.84
17	.85	.66	.80	.87	.74	.44	.67	.37	.38	.04	.92	.84
18	.83	.64	.74	391.17	.67	.41	.64	.35	.43	.03	.91	.84
19	.79	.66	.73	.74	392.12	.38	.60	.32	.42	.04	.90	.84
20	.76	.72	.73	.61	.19	.40	.58	.42	.37	.03	.89	.83
21	390.75	390.75	390.93	391.38	391.91	391.43	391.53	391.49	391.33	391.01	390.89	390.82
22	.74	.74	391.06	.25	.90	.44	.53	.53	.28	.01	.89	.81
23	.72	.71	390.94	.28	392.02	.46	.51	.62	.23	.00	.88	.80
24	.72	.70	.84	.25	391.97	.55	.63	.60	.21	.00	.88	.80
25	.72	.74	.79	.31	392.45	.67	.57	.58	.19	390.99	.87	.80
26	390.87	390.76	390.74	391.24	392.91	392.04	391.55	391.55	391.18	390.98	390.86	390.81
27	.93	.72	.71	.14	.85	.12	.55	.50	.17	.97	.84	.82
28	.87	.73	.72	.08	.76	.15	.51	.48	.16	.97	.84	.90
29	.92	.77	.83	.13	.53	.12	.48	.46	.14	.97	–	.93
30	.88	.73	391.03	.43	.25	.00	.45	.44	.13	.97	–	.90
31	–	.75	–	.68	.12	–	.41	–	.13	.97	–	.87
Mean	390.83	390.72	390.93	391.15	391.94	391.66	391.60	391.51	391.29	391.04	390.92	390.85
Max.	390.93	390.83	391.24	391.74	392.91	392.15	391.90	391.91	391.43	391.13	390.98	391.03
Min.	390.72	390.64	390.71	390.82	391.57	391.38	391.41	391.32	391.13	390.97	390.84	390.80

WATER YEAR 1972 : Max. 392.91 m. Min. 390.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43	48	56	136	251	353	307	151	161	96	70	49
2	49	43	81	146	202	287	277	148	159	96	70	49
3	55	40	85	116	220	257	254	143	153	92	68	49
4	59	39	78	107	257	261	248	136	151	92	67	48
5	56	38	71	98	277	248	238	136	148	90	67	48
6	53	37	67	80	248	223	220	136	143	90	67	47
7	48	37	55	75	214	205	211	161	136	88	67	45
8	44	33	49	68	205	214	208	284	131	88	65	45
9	44	32	64	61	217	217	202	310	129	87	65	55
10	42	38	101	53	248	211	199	267	131	85	64	71
11	47	38	118	49	261	196	214	251	129	85	64	78
12	48	36	109	47	235	191	196	241	122	83	64	62
13	49	33	103	49	229	194	205	217	116	81	64	56
14	55	30	88	49	211	188	196	194	129	81	62	55
15	59	28	67	49	238	177	208	177	143	80	62	52
16	56	27	52	49	248	172	235	164	148	80	61	49
17	51	28	44	53	254	166	232	148	151	80	61	49
18	48	26	37	103	232	159	223	143	164	78	59	49
19	43	28	36	254	385	151	211	136	161	80	57	49
20	39	34	36	214	410	156	205	161	148	78	56	48
21	38	38	62	151	310	164	191	179	138	75	56	47
22	37	37	83	120	307	166	191	191	127	75	56	45
23	34	33	64	127	349	172	185	213	116	73	55	44
24	34	32	49	120	331	196	220	211	111	73	55	44
25	34	37	43	133	512	232	202	205	107	71	53	44
26	53	39	37	118	715	356	196	196	105	70	52	45
27	62	34	33	98	686	385	196	182	103	68	49	47
28	53	36	34	87	645	396	185	177	101	68	49	57
29	61	40	48	96	545	385	177	172	98	68	–	62
30	55	36	78	164	433	342	164	166	96	68	–	57
31	–	38	–	235	385	–	159	–	96	68	–	53
Total	1,449	1,093	1,928	3,305	10,260	7,020	6,555	5,600	4,051	2,487	1,705	1,598
Mean	48.3	35.2	64.3	107	331	234	211	187	131	80.2	60.9	51.5
Max.	62	48	118	254	715	396	307	310	164	96	70	78
Min.	34	26	33	47	202	151	159	136	96	68	49	44
Runoff - mcm.	125.194	94.435	166.579	285.552	886.464	606.528	566.352	483.840	350.006	214.877	147.312	138.067

WATER YEAR 1972 : Max. 715 Min. 26 Mean 129 Annual Runoff 4,065.206 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 26, 72	06.00	392.96	739				

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 Kh18.
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: Fairly stable, no shifting adjustment for flow computation.

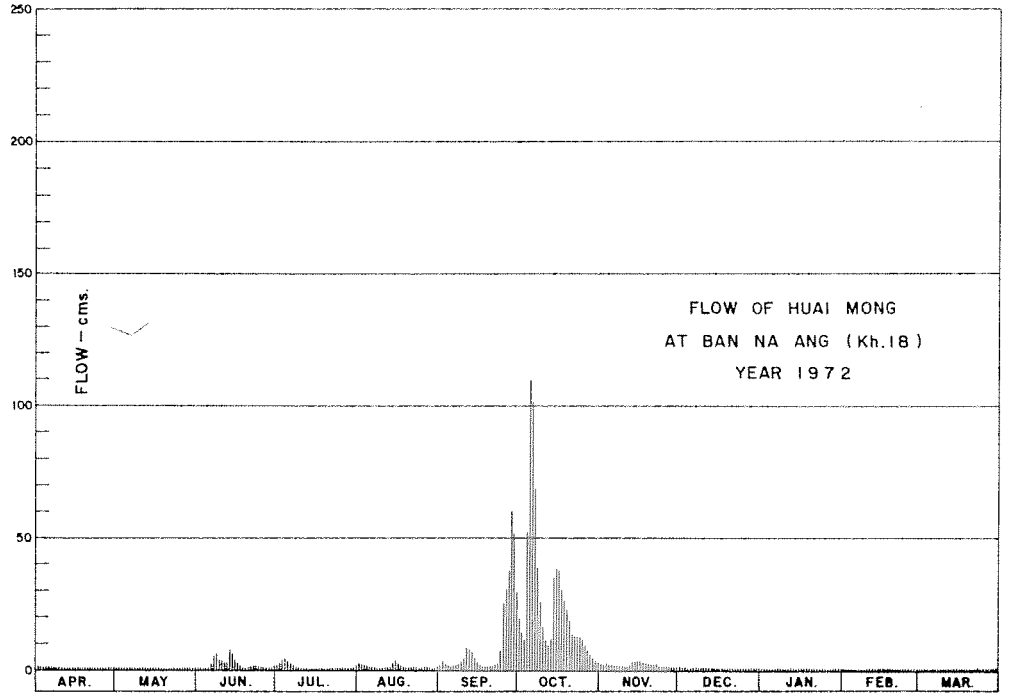
Overbank flow Conditions: Including overbank flow.

General Description: Records fair. Stage-discharge relation defined by 125 discharge measurements made in 1966.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.09	0.97	1.08	1.68	1.92	1.82	4.33	1.80	1.36	1.14	1.07	1.07
2	.11	.95	.13	2.06	.82	2.00	3.73	.73	.31	.18	.08	.06
3	.13	.96	.16	.16	.67	1.84	.47	.74	.25	.19	.08	.05
4	.06	.98	.19	.19	.58	.68	5.54	.68	.22	.18	.07	.06
5	.10	.98	.20	.04	.43	.57	7.27	.59	.24	.20	.08	.07
6	1.10	0.98	1.28	1.73	1.35	1.55	7.20	1.56	1.24	1.17	1.07	1.06
7	.05	1.00	2.38	.53	.30	.65	6.61	.51	.27	.12	.08	.04
8	.04	.02	.56	.42	.21	.77	5.86	.50	.30	.15	.08	.05
9	.03	.01	.11	.32	.20	2.07	.03	.54	.28	.20	.09	.05
10	.03	.02	1.99	.26	.16	.36	4.14	.54	.32	.20	.08	.03
11	1.04	1.03	1.88	1.21	1.12	3.04	3.51	1.56	1.31	1.18	1.05	1.01
12	.04	.03	.82	.16	.09	2.93	.11	.70	.27	.17	.04	.01
13	.08	.02	2.80	.16	.18	.69	.58	.93	.24	.18	.23	.01
14	.09	.01	.63	.14	.91	.25	5.57	2.04	.24	.19	.27	.00
15	.11	.02	.15	.15	2.08	1.94	.79	.02	.23	.19	.26	.02
16	1.16	1.02	1.77	1.17	1.90	1.71	5.71	1.94	1.22	1.17	1.25	1.03
17	.18	.01	.48	.15	.68	.50	.28	.83	.22	.17	.26	.03
18	.09	.03	.29	.16	.55	.44	4.98	.83	.21	.16	.26	.03
19	.03	.04	.21	.19	.46	.48	.75	.79	.17	.15	.25	.02
20	.01	.00	.32	.16	.36	.55	.24	.74	.17	.12	.21	.01
21	1.01	0.98	1.49	1.15	1.39	1.53	3.86	1.71	1.16	1.11	1.17	1.01
22	0.98	.97	.57	.14	.44	.64	.72	.65	.14	.13	.15	.04
23	.97	1.00	.60	.20	.38	.82	.68	.53	.14	.14	.12	.07
24	.95	.01	.49	.31	.27	2.12	.70	.47	.17	.16	.14	.04
25	.96	.05	.37	.29	.33	4.61	.50	.48	.22	.17	.12	.01
26	0.95	1.04	1.24	1.23	1.48	5.36	3.14	1.45	1.22	1.17	1.11	1.05
27	.96	.04	.19	.23	.43	.74	2.81	.42	.24	.12	.09	.02
28	.95	.03	.17	.14	.38	6.55	.57	.44	.22	.08	.08	0.99
29	.96	.02	.21	.03	.29	.26	.25	.39	.25	.06	-	.98
30	.99	.05	.46	.15	.23	5.31	.04	.36	.24	.06	-	1.02
31	-	.04	-	.62	.48	-	1.88	-	.21	.06	-	.01
Mean	1.04	1.01	1.61	1.37	1.45	2.66	4.28	1.65	1.23	1.15	1.14	1.03
Max.	1.18	1.05	2.80	2.19	2.08	6.55	7.27	2.04	1.36	1.20	1.27	1.07
Min.	0.95	0.95	1.08	1.03	1.09	1.44	1.88	1.36	1.14	1.06	1.07	0.98

WATER YEAR 1972 : Max. 7.27 m. Min. 0.95 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	0.34	0.48	2.14	3.00	2.66	19	2.60	1.18	0.58	0.47	0.47
2	0.52	0.30	0.56	3.64	2.66	3.40	13	2.32	1.03	0.66	0.48	0.46
3	0.56	0.32	0.62	4.04	2.11	2.72	11	2.36	0.85	0.68	0.48	0.45
4	0.46	0.36	0.68	4.16	1.84	2.14	34	2.14	0.76	0.66	0.47	0.46
5	0.50	0.36	0.70	3.56	1.39	1.81	109	1.87	0.82	0.70	0.48	0.47
6	0.50	0.36	0.94	2.32	1.15	1.75	101	1.78	0.82	0.64	0.47	0.46
7	0.45	0.40	5.02	1.69	1.00	2.05	62	1.63	0.91	0.54	0.48	0.44
8	0.44	0.42	5.96	1.36	0.73	2.48	40	1.60	1.00	0.60	0.48	0.45
9	0.43	0.41	3.84	1.06	0.70	3.68	26	1.72	0.94	0.70	0.49	0.45
10	0.43	0.42	3.35	0.88	0.62	4.94	17	1.72	1.06	0.70	0.48	0.43
11	0.44	0.43	2.84	0.73	0.54	8.64	12	1.78	1.03	0.66	0.45	0.41
12	0.44	0.43	2.66	0.62	0.49	7.98	9.06	2.20	0.91	0.64	0.44	0.41
13	0.48	0.42	7.30	0.62	0.66	6.65	12	3.05	0.82	0.66	0.79	0.41
14	0.49	0.41	6.35	0.58	2.95	4.45	34	5.56	0.82	0.68	0.91	0.40
15	0.52	0.42	4.00	0.60	3.72	3.10	38	3.48	0.79	0.68	0.88	0.42
16	0.62	0.42	2.48	0.64	2.90	2.24	37	3.10	0.76	0.64	0.85	0.43
17	0.66	0.41	1.54	0.60	2.14	1.60	30	2.69	0.76	0.64	0.88	0.43
18	0.49	0.43	0.97	0.62	1.75	1.42	26	2.69	0.73	0.62	0.88	0.43
19	0.43	0.44	0.73	0.68	1.48	1.54	23	2.56	0.64	0.60	0.85	0.42
20	0.41	0.40	1.06	0.62	1.18	1.75	18	2.36	0.64	0.54	0.73	0.41
21	0.41	0.36	1.57	0.60	1.27	1.69	14	2.24	0.62	0.52	0.64	0.41
22	0.36	0.34	1.81	0.58	1.42	2.02	13	2.05	0.58	0.56	0.60	0.44
23	0.34	0.40	1.90	0.70	1.24	2.66	13	1.69	0.58	0.58	0.54	0.47
24	0.30	0.41	1.57	1.03	0.91	3.88	13	1.51	0.64	0.62	0.58	0.44
25	0.30	0.45	1.21	0.97	1.09	21	12	1.54	0.76	0.64	0.54	0.41
26	0.30	0.44	0.82	0.79	1.54	31	9.24	1.45	0.76	0.60	0.52	0.45
27	0.32	0.44	0.68	0.79	1.39	37	7.35	1.36	0.82	0.54	0.49	0.42
28	0.30	0.43	0.64	0.58	1.24	60	6.02	1.42	0.76	0.48	0.48	0.38
29	0.32	0.42	0.73	0.43	0.97	50	4.45	1.27	0.85	0.46	–	0.36
30	0.38	0.45	1.48	0.60	0.79	30	3.56	1.18	0.82	0.46	–	0.42
31	–	0.44	–	1.96	1.54	–	2.84	–	0.73	0.46	–	0.41
Total	13.09	12.48	64.49	40.19	46.41	306.25	769.52	62.92	25.19	18.78	16.83	13.32
Mean	0.44	0.40	2.15	1.30	1.50	10.2	24.8	2.10	0.81	0.60	0.60	0.43
Max.	0.66	0.45	7.30	4.16	3.72	60	109	3.56	1.18	0.70	0.91	0.47
Min.	0.30	0.30	0.48	0.43	0.49	1.42	2.84	1.18	0.58	0.46	0.47	0.36
Runoff – mcm.	1.131	1.078	5.572	3.472	4.010	26.460	66.486	5.436	2.176	1.622	1.454	1.151

WATER YEAR 1972 : Max. 109 Min. 0.30 Mean 3.81 Annual Runoff 120.050 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5, 72	18.00	7.42	129				

MAE KHONG RIVER BASIN

Nam Loei at Wat Ku Kam, Loei (Kh43)

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: 13-time daily readings at 06.00-18.00 hours.

Basis of Mean Daily Gage Height: 13-time daily readings at 06.00-18.00 hours.

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.

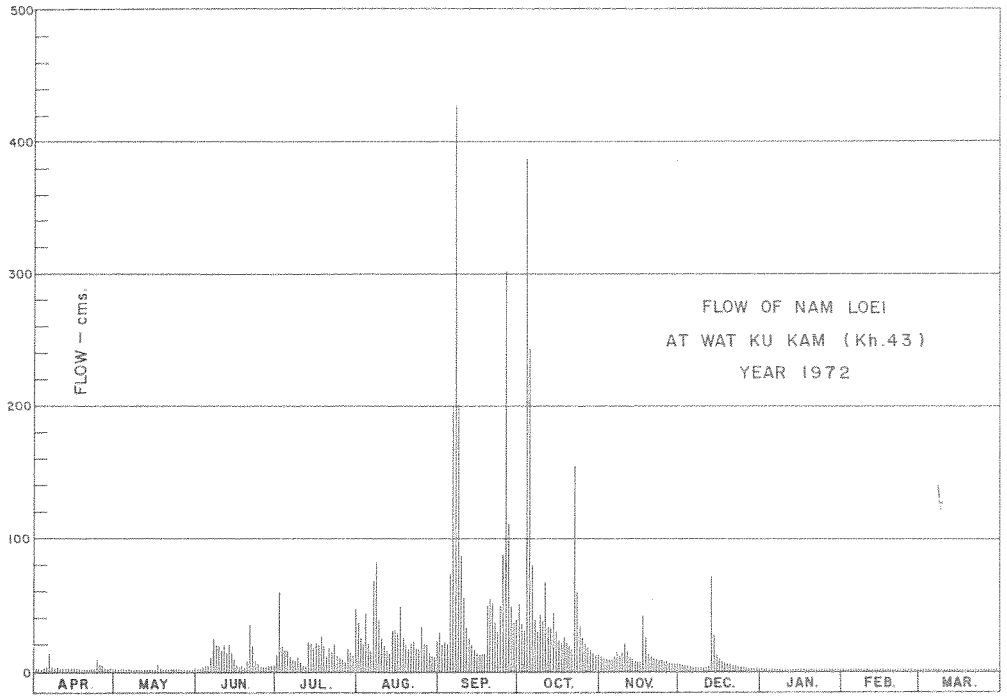
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 284 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.74	0.78	0.70	1.22	1.82	1.67	2.10	1.22	1.02	0.89	0.77	0.67
2	.73	.75	.71	2.25	.57	.47	1.83	.19	.01	.88	.77	.67
3	.72	.74	.68	1.44	.48	.53	.72	.17	.00	.87	.77	.66
4	.73	.72	.96	.37	.91	.50	5.61	.15	0.99	.87	.76	.66
5	.87	.71	.90	.37	.50	2.26	3.96	.13	.97	.86	.76	.67
6	1.27	0.70	1.20	1.21	1.34	2.92	2.32	1.21	0.96	0.86	0.75	0.67
7	0.92	.69	.55	.13	2.39	6.00	1.90	.33	.95	.86	.75	.66
8	.81	.69	.45	.13	.60	4.39	.69	.21	.94	.85	.75	.67
9	.90	.68	.43	.21	1.91	2.70	.96	.31	.94	.85	.75	.68
10	.78	.68	.34	.08	.59	.26	.85	.45	.94	.85	.75	.68
11	0.80	0.67	1.44	1.00	1.45	1.78	2.38	1.34	0.93	0.85	0.74	0.68
12	.76	.66	.27	0.95	.37	.58	1.77	.23	.95	.84	.74	.68
13	.82	.66	.47	1.51	.29	.47	.74	.18	2.45	.84	.73	.73
14	.87	.65	.26	.49	.71	.37	2.04	.15	1.62	.84	.73	.72
15	.79	.66	.11	.38	.72	.31	1.68	.12	.30	.84	.72	.72
16	0.79	0.65	1.02	1.48	1.67	1.26	1.53	1.10	1.19	0.83	0.72	0.70
17	.77	1.01	0.94	.46	2.08	.27	.48	.91	.13	.83	.72	.68
18	.75	0.77	.96	.60	1.61	.27	.60	.58	.09	.83	.72	.67
19	.73	.72	.91	.32	.47	2.05	.52	.32	.06	.82	.71	.66
20	.72	.70	.95	.21	.36	.16	.45	.23	.03	.82	.71	.66
21	0.71	0.70	1.80	1.41	1.47	3.11	1.39	1.18	1.00	0.82	0.70	0.78
22	.70	.72	.29	.32	.51	1.81	3.52	.16	0.99	.81	.70	.73
23	.71	.74	.12	.46	.38	.67	2.29	.13	.98	.81	.70	.70
24	1.12	.73	.02	.26	.38	2.05	1.79	.15	.95	.80	.70	.70
25	0.93	.72	0.96	.19	.76	.64	.60	.10	.94	.80	.69	.76
26	0.96	0.71	0.96	1.13	1.48	5.00	1.49	1.10	0.93	0.80	0.69	0.71
27	.83	.69	.91	.00	.46	2.91	.42	.08	.93	.79	.68	.69
28	.80	.68	.94	.40	.34	.08	.36	.06	.92	.79	.67	.68
29	.87	.67	.96	.33	.25	1.83	.32	.05	.91	.78	–	.68
30	.81	.66	.92	.21	.19	.90	.27	.04	.90	.7?	–	.67
31	–	.67	–	2.03	.52	–	.24	–	.89	.78	–	.67
Mean	0.82	0.71	1.10	1.34	1.60	2.21	1.96	1.22	1.06	0.83	0.73	0.69
Max.	1.27	1.01	1.80	2.25	2.60	6.00	5.61	1.91	2.45	0.89	0.77	0.78
Min.	0.70	0.65	0.68	0.95	1.19	1.26	1.24	1.04	0.89	0.78	0.67	0.66

WATER YEAR 1972 : Max. 6.00 m. Min. 0.65 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.52	0.84	0.20	13	36	29	51	11	4.84	2.17	0.76	0.14
2	0.44	0.60	0.28	59	24	20	37	10	4.57	2.04	0.76	0.14
3	0.36	0.52	0.16	19	21	23	* 31	9.43	4.30	1.91	0.76	0.12
4	0.44	0.36	3.50	16	41	21	*386	8.85	4.10	1.91	0.68	0.12
5	1.91	0.28	2.30	16	21	* 64	*202	8.08	3.70	1.78	0.68	0.14
6	13	0.20	10	11	15	*106	* 63	11	3.50	1.78	0.60	0.14
7	2.70	0.18	24	8.08	67	*426	40	15	3.30	1.78	0.60	0.12
8	1.13	0.18	19	8.08	81	*241	30	11	3.10	1.65	0.60	0.14
9	2.30	0.16	19	11	41	* 89	43	14	3.10	1.65	0.60	0.16
10	0.84	0.16	15	6.46	25	60	38	19	3.10	1.65	0.60	0.16
11	1.00	0.14	19	4.30	19	34	67	15	2.90	1.65	0.52	0.16
12	0.68	0.12	13	3.30	16	25	34	11	3.30	1.52	0.52	0.16
13	1.26	0.12	20	22	13	20	32	9.72	71	1.52	0.44	0.44
14	1.91	0.10	12	21	31	16	48	8.85	27	1.52	0.44	0.36
15	0.92	0.12	7.36	17	31	14	29	7.72	14	1.52	0.36	0.36
16	0.92	0.10	4.84	21	29	12	23	7.00	10	1.39	0.36	0.20
17	0.76	4.57	3.10	20	50	13	21	41	8.08	1.39	0.36	0.16
18	0.60	0.76	3.50	26	26	13	26	25	6.73	1.39	0.36	0.14
19	0.44	0.36	2.50	14	20	48	22	14	5.92	1.26	0.28	0.12
20	0.36	0.20	3.30	11	16	54	19	11	5.11	1.26	0.28	0.12
21	0.28	0.20	35	18	20	51	17	9.72	4.30	1.26	0.20	0.84
22	0.20	0.36	13	14	22	36	154	9.14	4.10	1.13	0.20	0.44
23	0.28	0.52	7.72	20	17	* 30	61	8.27	3.90	1.13	0.20	0.20
24	7.72	0.44	4.84	12	17	* 48	35	8.85	3.30	1.00	0.20	0.20
25	2.90	0.36	3.50	10	33	* 88	26	7.00	3.10	1.00	0.18	0.68
26	3.50	0.28	3.30	8.08	21	*300	21	7.00	2.90	1.00	0.18	0.28
27	1.39	0.18	2.50	6.73	20	*107	18	6.46	2.90	0.92	0.16	0.18
28	1.00	0.16	3.10	17	15	50	16	5.92	2.70	0.92	0.14	0.16
29	1.91	0.14	3.50	15	12	37	14	5.65	2.50	0.84	--	0.16
30	1.13	0.12	2.70	11	10	40	13	5.38	2.30	0.84	--	0.14
31	--	0.14	--	47	22	--	12	--	2.17	0.84	--	0.14
Total	52.80	12.97	261.20	506.03	832	2,115	1,629	341.04	225.82	43.62	12.02	7.02
Mean	1.76	0.42	8.71	16.3	26.8	70.5	52.5	11.4	7.28	1.41	0.43	0.23
Max.	13	4.57	35	59	81	426	386	41	71	2.17	0.76	0.84
Min.	0.20	0.10	0.16	3.30	10	12	12	5.38	2.17	0.84	0.14	0.12
Runoff - mcm.	4.562	1.114	22.568	43.721	71.885	182.736	140.746	29.466	19.511	3.769	1.038	0.653

WATER YEAR 1972 : Max. 426 Min. 0.10 Mean 16.5 Annual Runoff 521.728 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7, 72	13.00	6.69	516				

MAE KHONG RIVER BASIN

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 Kh43 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 Main 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 backwater effect, no shifting adjustment for flow computation.

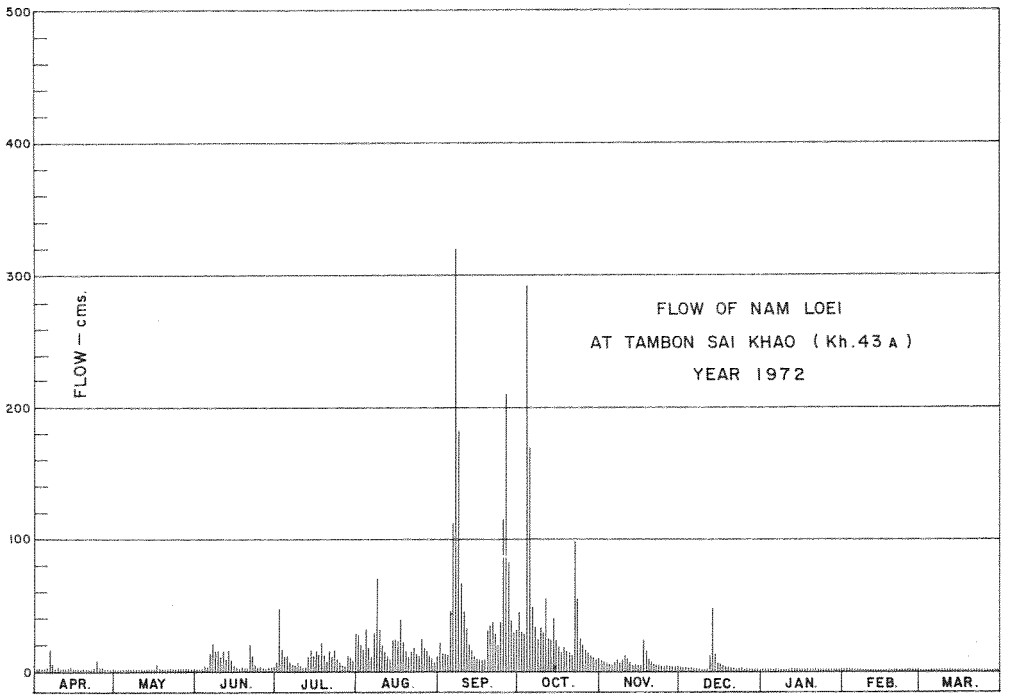
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 276 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.61	0.63	0.55	1.04	1.68	1.50	2.07	1.06	0.83	0.66	0.53	0.47
2	.58	.59	.55	2.13	.46	.30	1.73	.04	.82	.65	.52	.47
3	.57	.57	.51	1.29	.36	.27	.51	.01	.80	.64	.52	.46
4	.60	.55	.88	.22	.79	.25	5.87	0.99	.79	.63	.52	.46
5	.76	.54	.80	.22	.39	2.10	3.29	.98	.77	.63	.51	.47
6	1.31	0.52	1.21	1.06	1.20	2.42	2.20	1.04	0.76	0.63	0.51	0.46
7	0.80	.52	.47	0.96	.68	5.95	1.76	.13	.75	.62	.51	.46
8	.66	.51	.31	.96	2.56	4.00	.56	.03	.74	.62	.51	.47
9	.77	.50	.33	1.06	1.82	2.52	.79	.15	.74	.61	.51	.48
10	.64	.49	.21	0.90	.48	.18	.70	.22	.73	.60	.51	.47
11	0.65	0.49	1.32	0.82	1.33	1.71	2.29	1.13	0.73	0.60	0.51	0.48
12	.62	.47	.11	.77	.23	.47	1.60	.04	.76	.59	.51	.47
13	.69	.47	.34	1.23	.13	.35	.61	0.99	2.13	.59	.50	.53
14	.76	.46	.14	.34	.56	.24	.96	.97	1.38	.59	.50	.51
15	.66	.48	0.96	.23	.57	.16	.54	.95	.07	.58	.50	.51
16	0.65	0.46	0.87	1.31	1.55	1.10	1.38	0.94	0.98	0.58	0.49	0.50
17	.62	.91	.80	.27	.94	.08	.32	1.58	.91	.58	.49	.48
18	.59	.61	.84	.47	.50	.11	.41	.35	.88	.57	.49	.47
19	.57	.54	.75	.19	.35	.72	.35	.08	.85	.57	.49	.47
20	.55	.52	.78	.04	.20	.85	.28	.01	.82	.57	.48	.47
21	0.54	0.55	1.73	1.31	1.30	1.87	1.21	0.97	0.79	0.56	0.48	0.61
22	.52	.56	.17	.18	.39	.66	3.43	.95	.77	.56	.48	.51
23	.54	.59	0.98	.35	.25	.36	2.16	.93	.76	.55	.49	.50
24	1.05	.58	.87	.11	.22	2.00	1.66	.92	.75	.55	.48	.51
25	0.83	.57	.80	.05	.60	.23	.46	.90	.73	.54	.48	.55
26	0.87	0.55	0.78	0.96	1.35	4.74	1.34	0.91	0.71	0.54	0.47	0.50
27	.68	.53	.74	.92	.32	2.57	.27	.89	.70	.54	.47	.48
28	.63	.51	.79	1.23	.20	1.94	.20	.87	.69	.54	.47	.48
29	.74	.50	.82	.18	.10	.69	.15	.85	.68	.54	-	.49
30	.67	.49	.76	.04	.03	.76	.11	.84	.67	.53	-	.49
31	-	.49	-	.70	.14	-	.08	-	.66	.53	-	.48
Mean	0.69	0.54	0.97	1.17	1.44	2.00	1.81	1.02	0.84	0.58	0.49	0.48
Max.	1.31	0.91	1.73	2.13	2.56	5.95	5.87	1.58	2.13	0.66	0.53	0.61
Min.	0.52	0.46	0.51	0.77	1.03	1.08	1.08	0.84	0.66	0.53	0.47	0.46

WATER YEAR 1972 : Max. 5.95 m. Min. 0.46 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.86	0.98	0.50	7.04	28	22	45	7.56	3.02	1.16	0.38	0.14
2	0.68	0.74	0.50	47	20	14	30	7.04	2.88	1.10	0.32	0.14
3	0.62	0.62	0.26	14	16	13	28	6.26	2.60	1.04	0.32	0.12
4	0.80	0.50	3.72	12	32	13	291	5.80	2.48	0.98	0.32	0.12
5	2.12	0.44	2.60	12	18	42	146	5.60	2.24	0.98	0.26	0.14
6	15	0.32	11	7.56	11	77	51	7.04	2.12	0.98	0.26	0.12
7	2.60	0.32	21	5.20	28	319	31	9.38	2.00	0.92	0.26	0.12
8	1.16	0.26	15	5.20	70	177	23	6.78	1.88	0.92	0.26	0.14
9	2.24	0.20	15	7.56	34	70	32	9.90	1.88	0.86	0.26	0.16
10	1.04	0.18	11	4.00	21	48	29	12	1.76	0.80	0.26	0.14
11	1.10	0.18	15	2.88	15	30	55	9.38	1.76	0.80	0.26	0.16
12	0.92	0.14	8.86	2.24	12	21	25	7.04	2.12	0.74	0.26	0.14
13	1.34	0.14	16	12	9.38	16	25	5.80	47	0.74	0.20	0.38
14	2.12	0.12	9.64	16	24	12	40	5.40	17	0.74	0.20	0.26
15	1.16	0.16	5.20	12	24	10	23	5.00	7.82	0.68	0.20	0.26
16	1.10	0.12	3.58	15	23	8.60	17	4.80	5.60	0.68	0.18	0.20
17	0.92	4.20	2.60	13	39	8.08	15	24	4.20	0.68	0.18	0.16
18	0.74	0.86	3.16	21	22	8.86	18	16	3.72	0.62	0.18	0.14
19	0.62	0.44	2.00	11	16	30	16	8.08	3.30	0.62	0.18	0.14
20	0.50	0.32	2.36	7.04	11	35	14	6.26	2.88	0.62	0.16	0.14
21	0.44	0.50	30	15	15	36	12	5.40	2.48	0.56	0.16	0.86
22	0.32	0.56	10	11	18	27	97	5.00	2.24	0.56	0.16	0.26
23	0.44	0.74	5.60	16	13	18	56	4.60	2.12	0.50	0.18	0.20
24	7.30	0.68	3.58	8.86	12	37	27	4.40	2.00	0.50	0.16	0.26
25	3.02	0.62	2.60	7.30	25	83	20	4.00	1.76	0.44	0.16	0.50
26	3.58	0.50	2.36	5.20	16	209	15	4.20	1.52	0.44	0.14	0.20
27	1.28	0.38	1.88	4.40	15	73	13	3.86	1.40	0.44	0.14	0.16
28	0.98	0.26	2.48	12	11	38	11	3.58	1.34	0.44	0.14	0.16
29	1.88	0.20	2.88	11	8.60	29	9.90	3.30	1.28	0.44	–	0.18
30	1.22	0.18	2.12	7.04	6.78	31	8.86	3.16	1.22	0.38	–	0.18
31	–	0.18	–	29	9.64	–	8.08	–	1.16	0.38	–	0.16
Total	58.10	16.04	212.48	360.52	623.40	1,555.54	1,231.84	210.62	136.78	21.74	6.14	6.44
Mean	1.93	0.51	7.08	11.6	20.7	51.8	39.7	7.02	4.41	0.70	0.22	0.21
Max.	15	4.20	30	47	70	319	291	24	47	1.16	0.38	0.86
Min.	0.32	0.12	0.26	2.24	6.78	8.08	8.08	3.16	1.16	0.38	0.14	0.12
Runoff – mcm.	5.020	1.386	18.358	31.149	53.862	134.399	106.431	18.197	11.818	1.878	0.530	0.556

WATER YEAR 1972 : Max. 319 Min. 0.12 Mean 12.2 Annual Runoff 383.585 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7	12.00	6.34	386				

CHI RIVER BASIN

Chi River at Wat Tai Kosum, Maha Sarakham (E1)

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. – E1

Location: on right bank about 5 meters from the gage site.
Elevation: + 149.116 m. (M.S.L.)

Gage Reading Frequency: 3-time daily readings at 07.00, 12.00 and 18.00 hours.

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

Rating Operation:

Period of Rating: 1965–1973
Rated by Float: –
Rated by Current Meter: 1965–1973.

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

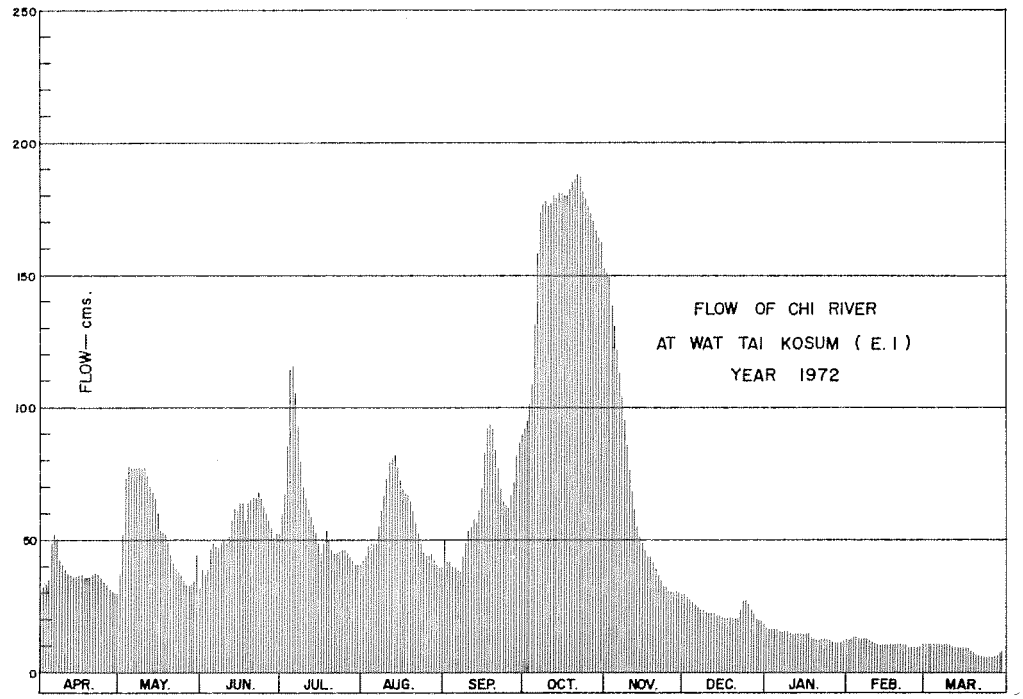
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 25 discharge measurements made in 1972. Flow regulated by Nam Phong Dam at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.44	137.65	137.62	138.09	137.70	137.84	138.61	139.60	137.42	137.10	136.99	136.94
2	.47	.94	.59	.20	.73	.69	.66	.57	.39	.10	.99	.94
3	.52	138.29	.63	.51	.80	.68	.77	.44	.37	.10	137.00	.94
4	.56	.38	.77	.99	.84	.65	.92	.31	.34	.10	.02	.94
5	.80	.36	.83	139.01	.82	.64	139.36	.15	.32	.10	.02	.94
6	137.89	138.36	137.81	138.85	137.83	137.62	139.73	139.01	137.30	137.08	137.01	136.94
7	.84	.37	.78	.57	.93	.60	.95	138.86	.28	.08	.00	.94
8	.69	.37	.83	.40	138.11	.74	140.03	.67	.27	.08	.00	.94
9	.67	.37	.84	.25	.20	.85	.04	.49	.26	.07	136.99	.94
10	.62	.36	.82	.15	.30	.92	.02	.35	.24	.06	.97	.94
11	137.61	138.33	137.86	138.06	138.40	137.95	140.03	138.22	137.24	137.06	136.96	136.93
12	.59	.23	138.03	.02	.44	138.01	.07	.07	.24	.06	.96	.93
13	.56	.21	.08	137.96	.45	137.96	.06	137.96	.23	.06	.95	.92
14	.57	.17	.06	.90	.39	138.07	.08	.88	.22	.06	.95	.92
15	.58	.06	.12	.83	.29	.29	.09	.84	.21	.06	.95	.92
16	137.59	137.90	138.12	137.74	138.25	138.50	140.07	137.77	137.21	137.05	136.95	136.92
17	.58	.90	.09	.83	.21	.61	.07	.73	.21	.02	.95	.91
18	.57	.88	.12	.93	.18	.65	.09	.72	.20	.02	.95	.89
19	.57	.82	.14	.84	.14	.64	.14	.67	.20	.01	.95	.84
20	.58	.72	.17	.78	.04	.51	.16	.62	.19	.01	.95	.83
21	137.59	137.66	138.16	137.74	137.96	138.36	140.19	137.60	137.19	137.01	136.94	136.82
22	.60	.62	.19	.74	.89	.24	.17	.55	.28	.01	.94	.81
23	.59	.61	.17	.76	.82	.15	.10	.51	.37	.00	.94	.81
24	.57	.58	.11	.79	.75	.10	.06	.49	.38	136.99	.93	.81
25	.52	.55	.06	.78	.73	.08	.02	.46	.34	.99	.93	.81
26	137.49	137.51	138.01	137.77	137.73	138.16	139.97	137.46	137.29	136.98	136.93	136.81
27	.47	.49	137.94	.72	.75	.28	.92	.46	.25	.98	.93	.81
28	.45	.52	.87	.68	.70	.48	.87	.45	.21	.98	.93	.81
29	.42	.54	.90	.66	.67	.54	.83	.44	.18	.98		.83
30	.42	.81	.89	.69	.64	.56	.79	.44	.18	.98		.87
31		.47		.69	.64		.63	.42	.14	137.00		.89
Mean	137.58	137.94	137.95	137.99	137.98	138.11	139.82	138.10	137.26	137.04	136.96	136.89
Max.	137.89	138.38	138.19	139.01	138.45	138.65	140.19	139.60	137.42	137.10	137.02	136.94
Min.	137.42	137.47	137.59	137.66	137.64	137.60	138.61	137.42	137.14	136.98	136.93	136.81

WATER YEAR 1972 : Max. 140.19 m. Min. 136.81 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31	40	39	62	43	50	92	151	30	17	13	11
2	32	55	37	68	44	42	95	149	29	17	13	11
3	34	72	39	86	48	42	101	141	28	17	13	11
4	36	78	46	114	50	40	110	134	27	17	14	11
5	48	77	49	116	49	40	137	124	26	17	14	11
6	52	77	48	106	49	39	159	116	25	16	13	11
7	50	77	47	89	54	38	172	107	24	16	13	11
8	42	77	49	79	63	45	177	95	24	16	13	11
9	41	77	50	70	68	50	178	84	23	16	13	11
10	39	77	49	65	73	54	176	76	23	15	12	11
11	38	74	51	61	79	55	177	69	23	15	11	10
12	37	69	59	59	81	58	180	61	23	15	11	10
13	36	68	62	56	82	56	179	56	22	15	11	9.80
14	36	66	61	53	78	61	181	52	22	15	11	9.80
15	37	61	64	49	72	72	181	50	21	15	11	9.80
16	37	53	64	45	70	85	180	46	21	15	11	9.80
17	37	53	62	49	68	92	180	44	21	15	11	9.40
18	36	52	64	54	67	94	181	44	21	14	11	8.70
19	36	49	65	50	65	93	185	41	21	13	11	7.20
20	37	44	66	47	60	86	186	39	21	13	11	6.90
21	37	41	66	45	56	77	188	38	21	13	11	6.60
22	38	39	68	45	52	70	187	35	24	13	11	6.30
23	37	38	66	46	49	65	182	33	28	13	11	6.30
24	36	37	63	47	45	63	179	33	28	13	10	6.30
25	34	35	61	47	44	62	176	31	27	13	10	6.30
26	33	33	58	46	44	66	173	31	25	12	10	6.30
27	32	33	55	44	45	72	170	31	23	12	10	6.30
28	31	34	51	42	43	84	167	31	21	12	10	6.30
29	30	35	53	41	41	87	165	31	20	12		6.90
30	30	48	52	41	40	89	162	31	20	12		8.10
31		32		41	40		153	30	19	13		8.70
Total	1,110	1,701	1,664	1,863	1,762	1,927	5,109	2,034	731	447	324	275.80
Mean	37.0	54.9	55.5	60.1	52.8	64.2	165	65.6	23.6	14.4	11.6	8.89
Max.	52	78	68	116	82	94	188	151	30	17	14	11
Min.	30	32	37	41	40	38	92	30	19	12	10	6.30
Runoff – mcm.	95.904	146.966	143.770	160.963	152.237	166.493	441.418	175.738	63.158	38.621	27.993	23.829

WATER YEAR 1972 : Max. 188 · Min. 6.30 Mean 51.9 Annual Runoff 1,637.090 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.21	18.00	140.19	188				

CHI RIVER BASIN

Chi River at Wat Si Thammaram, Yasothon (E2)

Location: Lat. 15°-47'-05" 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: 3-time daily readings at 06.00, 12.00 and 18.00 hours.

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

Period of Available Gage Records: 1951 to date.

Rating Operation:

Period of Rating: 1951
Rated by Float: -
Rated by Current Meter: 1951

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

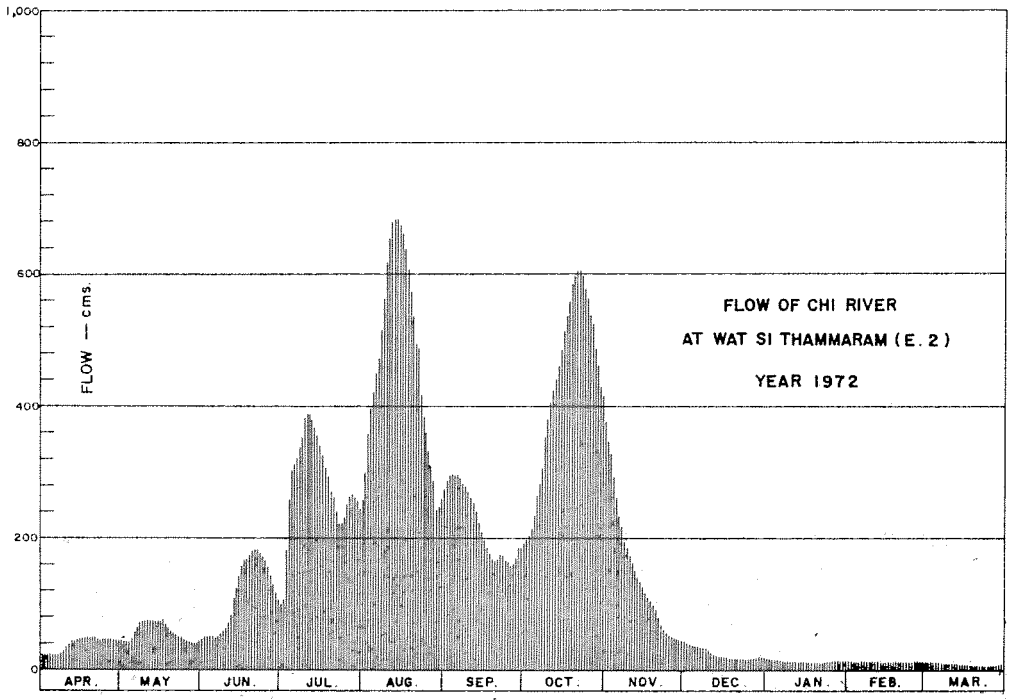
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 188 discharge measurements made in 1951. Flow regulated by Nam Phong and Lampao Dam at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.92	119.43	119.46	120.26	122.02	122.18	121.34	123.06	119.41	118.78	118.63	118.59
2	.91	.42	.51	.38	.53	.28	.40	122.80	.36	.74	.63	.59
3	.93	.40	.53	121.21	.98	.34	.46	.54	.31	.72	.64	.59
4	.93	.39	.54	.98	123.25	.34	.58	.25	.28	.70	.64	.58
5	.93	.47	.54	122.35	.41	.33	.86	121.99	.25	.69	.63	.58
6	118.92	119.66	119.50	122.50	123.62	122.33	122.08	121.76	119.22	118.68	118.63	118.56
7	.93	.79	.53	.60	.78	.28	.26	.54	.21	.68	.65	.54
8	119.00	.84	.62	.72	124.08	.20	.54	.38	.19	.67	.63	.52
9	.13	.87	.67	.92	.40	.16	.83	.25	.14	.67	.62	.50
10	.25	.89	.74	123.09	.72	.09	123.06	.13	.10	.66	.62	.49
11	119.33	119.89	119.86	123.15	124.94	122.02	123.28	121.00	119.02	118.66	118.62	118.49
12	.41	.89	120.06	.10	125.06	121.93	.42	120.88	118.94	.65	.62	.48
13	.42	.88	.34	.00	.08	.83	.54	.77	.88	.65	.61	.48
14	.44	.88	.61	122.90	.08	.66	.71	.68	.85	.64	.61	.47
15	.46	.88	.80	.77	.03	.52	.86	.58	.83	.64	.60	.46
16	119.49	119.88	120.94	122.67	124.96	121.38	124.07	120.47	118.81	118.63	118.60	118.45
17	.49	.91	121.06	.52	.85	.20	.22	.38	.79	.63	.60	.45
18	.50	.85	.07	.39	.67	.12	.40	.31	.79	.63	.60	.44
19	.50	.75	.12	.24	.45	.05	.53	.24	.79	.63	.60	.44
20	.51	.69	.19	.14	.20	.03	.61	.13	.79	.62	.59	.43
21	119.50	119.63	121.21	121.97	123.92	121.06	124.66	119.97	118.77	118.61	118.59	118.43
22	.46	.58	.21	.77	.64	.13	.66	.80	.75	.61	.59	.42
23	.45	.55	.17	.64	.34	.12	.62	.70	.75	.62	.58	.41
24	.46	.52	.10	.63	.08	.04	.53	.63	.74	.63	.58	.38
25	.47	.47	.02	.72	122.83	120.98	.40	.57	.73	.64	.58	.37
26	119.46	119.43	120.90	121.94	122.54	120.94	124.24	119.51	118.75	118.65	118.59	118.35
27	.46	.40	.75	122.06	.26	.97	.07	.50	.80	.65	.59	.38
28	.46	.39	.58	.09	.02	121.10	123.88	.48	.84	.66	.59	.44
29	.45	.37	.47	.02	121.85	.26	.69	.45	.86	.65	-	.48
30	.43	.37	.35	121.04	.88	.24	.50	.44	.87	.65	-	.50
31	-	.42	-	.83	122.06	-	.32	-	.84	.64	-	.53
Mean	119.30	119.64	120.38	122.18	123.63	121.60	123.41	120.71	118.96	118.66	118.61	118.48
Max.	119.51	119.91	121.21	123.15	125.08	122.34	124.66	123.06	119.41	118.78	118.65	118.59
Min.	118.91	119.37	119.46	120.26	121.85	120.94	121.34	119.44	118.73	118.61	118.58	118.35

WATER YEAR 1972 : Max. 125.08 m. Min. 118.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22	45	47	101	261	278	194	378	43	18	13	12
2	22	44	50	110	316	289	199	347	41	16	13	12
3	23	43	51	182	369	295	205	317	39	16	13	12
4	23	42	51	257	402	295	217	286	37	15	13	12
5	23	47	51	297	422	294	245	257	36	15	13	12
6	22	57	49	313	450	294	267	235	34	14	13	11
7	23	67	51	324	471	289	287	213	34	14	14	10
8	25	71	56	337	514	280	317	197	33	14	13	9.94
9	30	73	59	361	562	276	351	186	31	14	13	9.42
10	36	74	64	382	615	268	378	175	29	14	13	9.16
11	40	74	72	389	655	261	405	163	26	14	13	9.16
12	43	74	86	383	678	252	424	152	23	14	13	8.90
13	44	74	107	371	682	242	439	142	21	14	12	8.90
14	45	74	129	359	682	225	461	134	20	13	12	8.64
15	47	74	145	343	672	211	482	126	19	13	12	8.38
16	48	74	158	332	658	197	513	118	18	13	12	8.12
17	48	76	168	315	638	181	535	110	18	13	12	8.12
18	49	70	169	301	607	174	562	105	18	13	12	7.86
19	49	64	174	284	570	168	583	99	18	13	12	7.86
20	50	60	180	273	532	166	597	91	18	13	12	7.60
21	50	57	182	256	491	168	605	80	17	12	12	7.60
22	47	54	182	236	452	175	605	68	17	12	12	7.40
23	46	52	178	223	413	174	598	61	17	13	12	7.20
24	47	50	172	222	381	167	583	57	16	13	12	6.60
25	47	47	165	231	351	161	562	53	16	13	12	6.40
26	47	45	154	253	317	158	538	50	17	14	12	6.00
27	47	43	141	265	287	160	513	49	18	14	12	6.60
28	47	42	126	268	261	172	485	48	19	14	12	7.86
29	46	41	118	261	244	186	459	46	20	14	–	8.90
30	45	41	108	253	247	185	434	45	20	14	–	9.42
31	–	44	–	242	265	–	411	–	19	13	–	10
Total	1,181	1,795	3,443	8,724	14,465	6,641	13,454	4,388	752	429	349	277
Mean	39.4	57.9	115	281	467	221	434	146	24.2	13.8	12.5	8.94
Max.	50	76	182	389	682	295	605	378	43	18	14	12
Min.	22	41	47	101	244	158	194	45	16	12	12	6.00
Runoff – mcm.	102.038	155.088	297.475	753.754	1,249.776	573.782	1,162.426	379.123	64.973	37.066	30.154	23.936

WATER YEAR 1972 : Max. 682 Min. 6.00 Mean 153 Annual Runoff 4,829.591 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 14, 72	01.00	125.08	682				

CHI RIVER BASIN

Chi River near Ban Non Puai, Chaiyaphum (E5)

Location: Lat. 15°-46'-07" N., Long. 101°-49'-03" E., on left bank near Ban Non Puai about 30 meters downstream from former gage, Amphoe Ban Khwao, Chaiyaphum. The station name formerly referred as "at Kang Tha Due".

Drainage Area: 4,254 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 186.070 m. (M.S.L.)

Bench Mark: B.M. - E5

Location: Infront of the camp of E5 station.
Elevation: + 197.543 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1958-1969, September 1, 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.

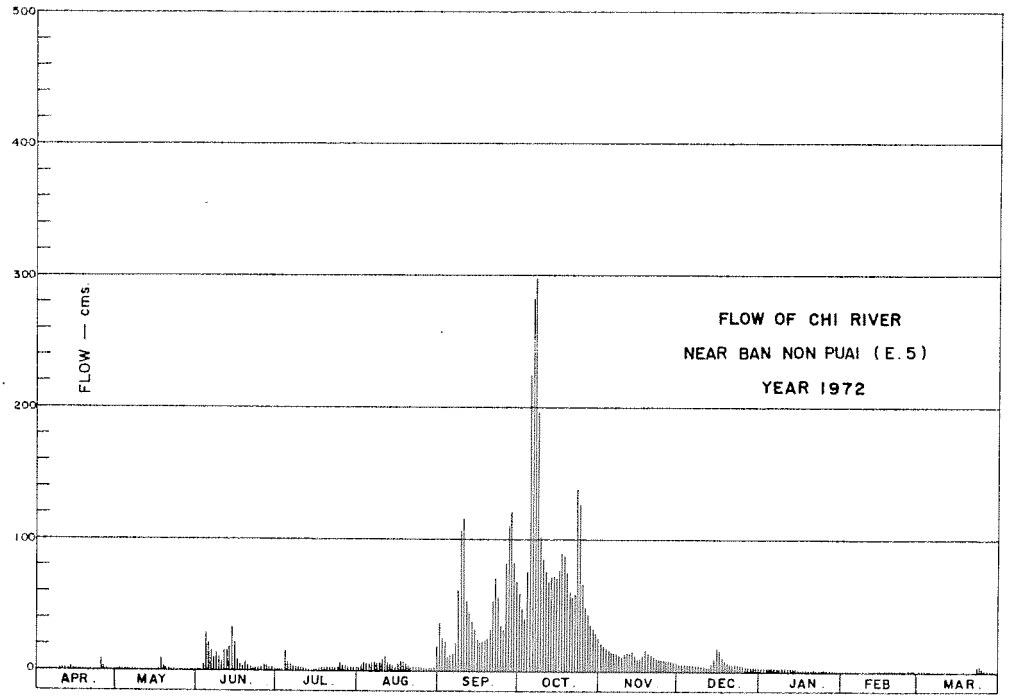
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 171 discharge measurements made in 1971.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	186.67	186.72	186.67	186.76	186.93	188.77	189.75	187.99	187.12	186.92	186.71	186.63
2	.65	.73	.71	.77	187.03	.16	.21	.88	.10	.91	.71	.64
3	.65	.70	187.03	.79	.25	.05	188.91	.79	.08	.90	.71	.64
4	.65	.68	188.35	187.63	.19	187.51	190.18	.71	.06	.89	.70	.62
5	.68	.71	.04	.25	.11	.56	194.00	.65	.05	.88	.70	.62
6	186.69	186.73	187.71	187.05	187.14	187.55	195.24	187.61	187.04	186.87	186.70	186.64
7	.70	.70	.40	.01	.21	.99	.53	.58	.02	.87	.70	.64
8	.69	.67	.59	186.97	.14	190.48	193.55	.52	.01	.86	.69	.64
9	.78	.65	.49	.91	.15	191.33	191.15	.47	.00	.85	.69	.64
10	.84	.64	.21	.86	.38	.58	190.53	.53	186.98	.84	.68	.63
11	186.81	186.64	187.69	186.82	187.43	190.43	190.38	187.65	186.96	186.84	186.68	186.63
12	.77	.63	.63	.79	.20	189.09	.05	.59	.97	.83	.68	.62
13	.84	.62	.83	.76	.10	188.86	.19	.65	187.09	.82	.68	.62
14	.80	.61	188.61	.76	.03	.59	.19	.44	.40	.81	.68	.62
15	.76	.62	.00	.75	186.98	.09	.12	.37	.87	.79	.68	.62
16	186.76	186.64	187.31	186.79	186.98	188.00	180.30	187.35	187.77	186.78	186.67	186.62
17	.77	187.26	.08	.87	187.07	.19	.84	.50	.47	.78	.68	.63
18	.77	.34	186.97	.86	.28	.08	.77	.69	.28	.78	.67	.63
19	.75	186.97	187.17	.88	.25	.15	.34	.61	.18	.78	.66	.62
20	.71	.82	187.03	.93	.14	.52	189.76	.54	.13	.77	.66	.61
21	186.70	186.76	186.90	186.87	187.04	189.47	189.53	187.49	187.10	186.77	186.66	186.61
22	.69	.72	.85	.88	186.99	190.13	.67	.39	.06	.76	.66	.61
23	.71	.70	.89	.84	.95	189.55	192.21	.32	.03	.75	.65	.91
24	.72	.71	.92	.82	.92	188.64	191.89	.31	.01	.74	.65	187.05
25	187.31	.70	.86	187.15	.91	.50	189.95	.28	.00	.72	.65	186.81
26	186.91	186.67	187.09	187.05	186.90	190.41	189.24	187.26	186.98	186.72	186.65	186.72
27	.80	.66	.02	.05	.88	191.34	188.93	.25	.97	.72	.64	.74
28	.74	.65	186.88	186.92	.89	.75	.69	.23	.96	.71	.63	.71
29	.72	.64	.83	.91	.87	190.58	.54	.20	.96	.70	-	.67
30	.72	.63	.77	.88	.90	.03	.34	.16	.95	.72	-	.65
31	-	.64	-	.89	187.43	-	.15	-	.93	.71	-	.65
Mean	186.76	186.73	187.28	186.92	187.09	189.18	190.52	187.50	187.11	186.80	186.67	186.68
Max.	187.31	187.34	188.61	187.63	187.43	191.75	195.53	187.99	187.87	186.92	186.71	187.05
Min.	186.65	186.61	186.67	186.75	186.87	187.51	188.15	187.16	186.93	186.70	186.63	186.61

WATER YEAR 1972 : Max. 195.53 m. Min. 186.61 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	1.20	0.70	1.60	3.30	37	61	22	5.80	3.20	1.10	0.30
2	0.50	1.30	1.10	1.70	4.45	25	48	20	5.50	3.10	1.10	0.40
3	0.50	1.00	4.45	1.90	7.75	23	40	18	5.20	3.00	1.10	0.40
4	0.50	0.80	29	15	6.85	12	72	16	4.90	2.90	1.00	0.20
5	0.80	1.10	23	7.75	5.65	13	215	15	4.75	2.80	1.00	0.20
6	0.90	1.30	16	4.75	6.10	13	281	14	4.60	2.70	1.00	0.40
7	1.00	1.00	10	4.15	7.15	22	297	14	4.30	2.70	1.00	0.40
8	0.90	0.70	14	3.70	6.10	79	193	12	4.15	2.60	0.90	0.40
9	1.80	0.50	12	3.10	6.25	106	100	11	4.00	2.50	0.90	0.40
10	2.40	0.40	7.15	2.60	9.70	115	81	13	3.80	2.40	0.80	0.30
11	2.10	0.40	16	2.20	11	53	77	15	3.60	2.40	0.80	0.30
12	1.70	0.30	15	1.90	7.00	45	69	14	3.70	2.30	0.80	0.20
13	2.40	0.20	19	1.60	5.50	39	72	15	5.35	2.20	0.80	0.20
14	2.00	0.10	34	1.60	4.45	34	72	11	10	2.10	0.80	0.20
15	1.60	0.20	22	1.50	3.80	24	70	9.55	19	1.90	0.80	0.20
16	1.60	0.40	8.65	1.90	3.80	22	75	9.25	17	1.80	0.70	0.20
17	1.70	1.90	5.20	2.70	5.05	26	90	12	11	1.80	0.80	0.30
18	1.70	9.10	3.70	2.60	8.20	24	88	16	8.20	1.80	0.70	0.30
19	1.50	3.70	6.55	2.80	7.75	25	76	14	6.70	1.80	0.60	0.20
20	1.10	2.20	4.45	3.30	6.10	32	61	13	5.95	1.70	0.60	0.10
21	1.00	1.60	3.00	2.70	4.60	54	56	12	5.50	1.70	0.60	0.10
22	0.90	1.20	2.50	2.80	3.90	71	59	9.85	4.90	1.60	0.60	0.10
23	1.10	1.00	2.90	2.40	3.50	56	137	8.80	4.45	1.50	0.50	3.10
24	1.20	1.10	3.20	2.20	3.20	35	126	8.65	4.15	1.40	0.50	4.75
25	8.65	1.00	2.60	6.25	3.10	32	66	8.20	4.00	1.20	0.50	2.10
26	3.10	0.70	5.35	4.75	3.00	78	48	7.90	3.80	1.20	0.50	1.20
27	2.00	0.60	4.30	4.75	2.80	106	41	7.75	3.70	1.20	0.40	1.40
28	1.40	0.50	2.80	3.20	2.90	121	36	7.45	3.60	1.10	0.30	1.10
29	1.20	0.40	2.30	3.10	2.70	82	33	7.00	3.60	1.00	–	0.70
30	1.20	0.30	1.70	2.80	3.00	68	29	6.40	3.50	1.20	–	0.50
31	–	0.40	–	2.90	11	–	25	–	3.30	1.10	–	0.50
Total	49.15	42.60	282.60	106.20	169.65	1,472	2,794	367.80	182.00	61.90	21.20	21.15
Mean	1.64	1.37	9.42	3.42	3.43	49.1	90.1	12.2	5.87	2.00	0.76	0.68
Max.	8.65	9.10	34	15	11	121	297	22	19	3.20	1.10	4.75
Min.	0.50	0.10	0.70	1.50	2.70	12	25	6.40	3.30	1.00	0.30	0.10
Runoff - mcm.	4.246	3.681	24.417	9.176	14.607	127.181	241.402	31.778	15.725	5.348	1.832	1.827

WATER YEAR 1972 : Max. 297 Min. 0.10 Mean 15.2 Annual Runoff 481.270 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7, 72	08.00	195.68	306				

CHI RIVER BASIN

Huai Pa Thao at Ban Hua Nong Bua, Chaiyaphum (E6A)

Location: Lat. 15°-55'-28" N., Long. 102°-02'-18" E., on right bank about 2.5 kilometers east side of Chaiyaphum – Chumphae road at Kilometer marker 12+300, and about 1 kilometer upstream from E6 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. E6A

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: 1967-1976

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.

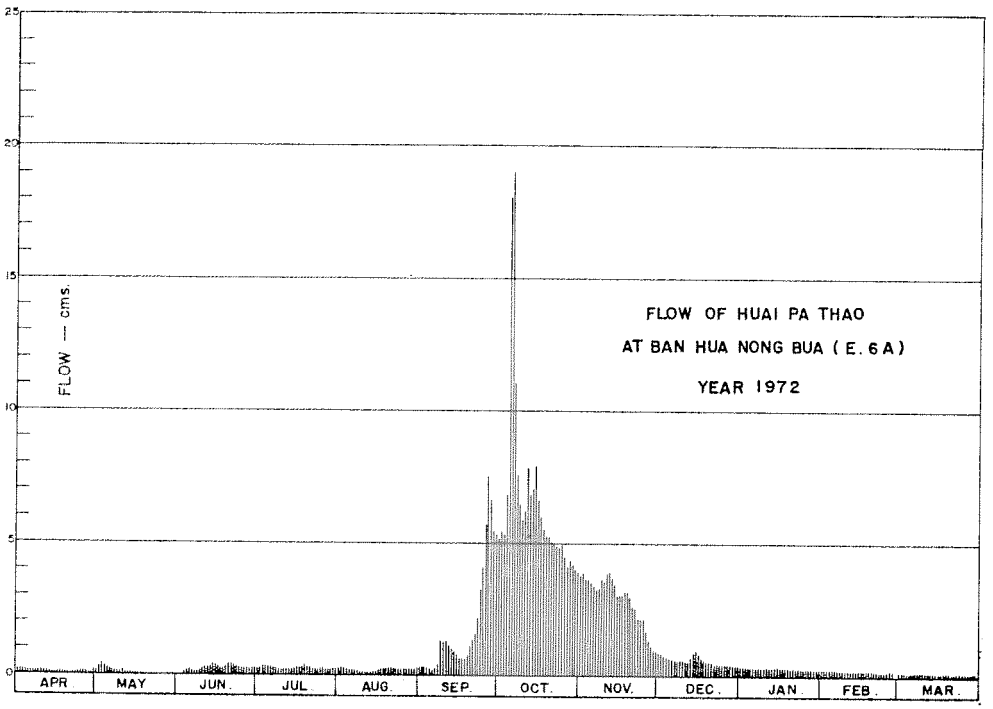
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 77 discharge measurements made in 1971. Flow regulated by Ban Na Fai Weir about 500 meters upstream.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.27	2.22	1.95	2.44	2.49	2.57	4.33	4.15	3.09	2.64	2.45	2.25
2	.24	.54	.99	.49	.51	.55	.37	.16	.01	.63	.45	.27
3	.22	.69	2.11	.55	.49	.52	.35	.13	.00	.62	.46	.25
4	.19	.56	.26	.53	.43	.48	.60	.13	2.97	.62	.47	.23
5	.15	.41	.34	.52	.38	.43	5.10	.12	.95	.60	.48	.26
6	2.18	2.31	2.27	2.53	2.35	2.37	5.12	4.09	2.92	2.58	2.41	2.24
7	.17	.22	.13	.50	.32	.44	4.84	.06	.85	.56	.41	.25
8	.12	.18	.12	.46	.29	.70	.58	.04	.84	.57	.42	.26
9	.12	.13	.28	.42	.27	3.34	.48	.02	.86	.57	.37	.21
10	.13	.10	.42	.39	.25	.32	.41	.08	.85	.55	.35	.20
11	2.11	2.26	2.50	2.37	2.25	3.34	4.46	4.16	2.83	2.55	2.35	2.22
12	.10	.05	.44	.37	.22	.21	.60	.17	.80	.55	.34	.24
13	.09	.06	.54	.37	.20	.16	.52	.14	.94	.55	.33	.23
14	.07	.03	.69	.39	.20	.10	.54	.09	3.07	.55	.35	.17
15	.06	.02	.60	.47	.22	.01	.61	.00	.13	.54	.34	.18
16	2.05	2.02	2.53	2.54	2.30	2.90	4.50	4.00	3.05	2.52	2.33	2.17
17	.07	.03	.45	.53	.36	.86	.42	3.99	2.94	.54	.32	.17
18	.10	.04	.41	.61	.42	.89	.37	4.02	.89	.53	.32	.17
19	.09	.04	.53	.65	.46	.97	.34	.03	.81	.52	.31	.15
20	.06	.03	.67	.59	.48	3.21	.34	3.98	.79	.51	.34	.12
21	2.05	2.03	2.71	2.52	2.48	3.39	4.32	3.87	2.77	2.51	2.33	2.09
22	.06	1.99	.63	.45	.47	.52	.32	.88	.74	.50	.29	.11
23	.08	.96	.55	.40	.47	.76	.30	.77	.75	.50	.28	.15
24	.11	.95	.46	.37	.45	4.04	.29	.75	.75	.49	.27	.17
25	.12	.95	.42	.47	.44	.19	.31	.74	.72	.48	.26	.21
26	2.14	1.96	2.42	2.50	2.44	4.40	4.24	3.61	2.70	2.48	2.26	2.12
27	.12	.95	.44	.43	.44	.57	.20	.36	.68	.50	.33	.10
28	.04	.95	.43	.38	.43	.44	.22	.25	.68	.47	.31	.13
29	.07	.97	.44	.35	.43	.37	.21	.15	.67	.44		.11
30	.26	.98	.44	.34	.43	.35	.18	.12	.66	.44		.12
31		.94		.40	.44		.16		.66	.45		.08
Mean	2.13	2.11	2.40	2.46	2.38	3.28	4.44	3.90	2.85	2.53	2.35	2.18
Max.	2.27	2.69	2.71	2.65	2.51	4.57	5.12	4.17	3.13	2.64	2.48	2.27
Min.	2.04	1.94	1.95	2.34	2.20	2.37	4.16	3.12	2.66	2.44	2.26	2.08

WATER YEAR 1972 : Max. 5.12 m. Min. 1.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.18	0.16	0.025	0.27	0.29	0.33	5.14	3.80	0.93	0.39	0.27	0.17
2	0.17	0.32	0.045	0.29	0.30	0.32	5.46	3.87	0.81	0.38	0.27	0.18
3	0.16	0.44	0.10	0.32	0.29	0.31	5.30	3.66	0.80	0.37	0.28	0.17
4	0.14	0.33	0.18	0.31	0.26	0.29	7.80	3.66	0.75	0.37	0.28	0.16
5	0.12	0.25	0.22	0.31	0.24	0.26	18	3.59	0.72	0.35	0.29	0.18
6	0.14	0.20	0.18	0.31	0.22	0.23	19	3.41	0.68	0.34	0.25	0.17
7	0.13	0.16	0.11	0.30	0.21	0.27	11	3.29	0.60	0.33	0.25	0.17
8	0.11	0.14	0.11	0.28	0.19	0.45	7.56	3.21	0.59	0.33	0.26	0.18
9	0.11	0.11	0.19	0.26	0.18	1.31	6.42	3.66	0.61	0.33	0.23	0.15
10	0.11	0.10	0.26	0.24	0.17	1.28	5.79	3.59	0.60	0.32	0.22	0.15
11	0.10	0.17	0.30	0.23	0.16	1.31	6.24	3.87	0.58	0.32	0.22	0.16
12	0.10	0.075	0.27	0.23	0.16	1.11	7.80	3.94	0.55	0.32	0.22	0.17
13	0.095	0.080	0.32	0.23	0.15	1.04	6.84	3.73	0.71	0.32	0.21	0.16
14	0.085	0.065	0.44	0.24	0.15	0.95	7.08	3.41	0.90	0.32	0.22	0.13
15	0.080	0.060	0.35	0.28	0.16	0.81	7.93	3.05	0.99	0.32	0.22	0.14
16	0.075	0.060	0.31	0.32	0.20	0.65	6.60	3.05	0.87	0.31	0.21	0.13
17	0.085	0.065	0.27	0.31	0.23	0.61	5.88	3.01	0.71	0.32	0.21	0.13
18	0.10	0.070	0.25	0.32	0.26	0.64	5.46	3.13	0.64	0.31	0.21	0.13
19	0.095	0.070	0.31	0.40	0.28	0.75	5.22	3.17	0.56	0.31	0.20	0.12
20	0.080	0.065	0.42	0.34	0.29	1.11	5.22	2.97	0.54	0.30	0.22	0.11
21	0.075	0.065	0.46	0.31	0.29	1.38	5.06	2.54	0.52	0.30	0.21	0.095
22	0.080	0.045	0.38	0.27	0.28	1.59	5.06	2.58	0.49	0.30	0.19	0.11
23	0.090	0.030	0.32	0.25	0.28	2.18	4.90	2.21	0.50	0.30	0.19	0.12
24	0.10	0.025	0.28	0.23	0.27	3.21	4.82	2.15	0.50	0.29	0.18	0.13
25	0.11	0.025	0.28	0.28	0.27	4.08	4.98	2.12	0.47	0.29	0.18	0.15
26	0.12	0.030	0.26	0.30	0.27	5.70	4.45	1.77	0.45	0.29	0.18	0.11
27	0.11	0.025	0.27	0.26	0.27	7.44	4.15	1.34	0.43	0.30	0.21	0.10
28	0.070	0.025	0.26	0.24	0.26	6.06	4.30	1.17	0.43	0.28	0.20	0.11
29	0.085	0.035	0.27	0.22	0.26	5.46	4.22	1.02	0.42	0.27		0.10
30	0.18	0.040	0.27	0.22	0.26	5.30	4.01	0.98	0.41	0.27		0.11
31		0.020		0.25	0.27		3.87		0.41	0.27		0.090
Total	3.285	3.355	7.690	8.66	7.37	56.43	205.56	86.20	19.17	9.82	6.28	4.285
Mean	0.11	0.11	0.26	0.28	0.24	1.88	6.63	2.87	0.62	0.32	0.22	0.14
Max.	0.18	0.44	0.46	0.40	0.30	7.44	19	3.94	0.99	0.39	0.29	0.18
Min.	0.070	0.020	0.025	0.22	0.15	0.23	3.87	0.98	0.41	0.27	0.18	0.090
Runoff – MCM.	0.284	0.290	0.664	0.748	0.637	4.876	17.760	7.448	1.656	0.848	0.543	0.370

WATER YEAR 1972 : Max. 19 Min. 0.020 Mean 1.14 Annual Runoff 36.124 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	24.00	5.20	22				

CHI RIVER BASIN

Chi River at Ban Tha Khon Yang, Maha Sarakham (E8A)

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 Kantharawichai, Maha Sarakham.

Drainage Area: 29,802 Sq.km.

Type of Gage: Water-stage recorder.

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: Recording

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

Period of Available Gage Records: 1955-1970, 1971 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.

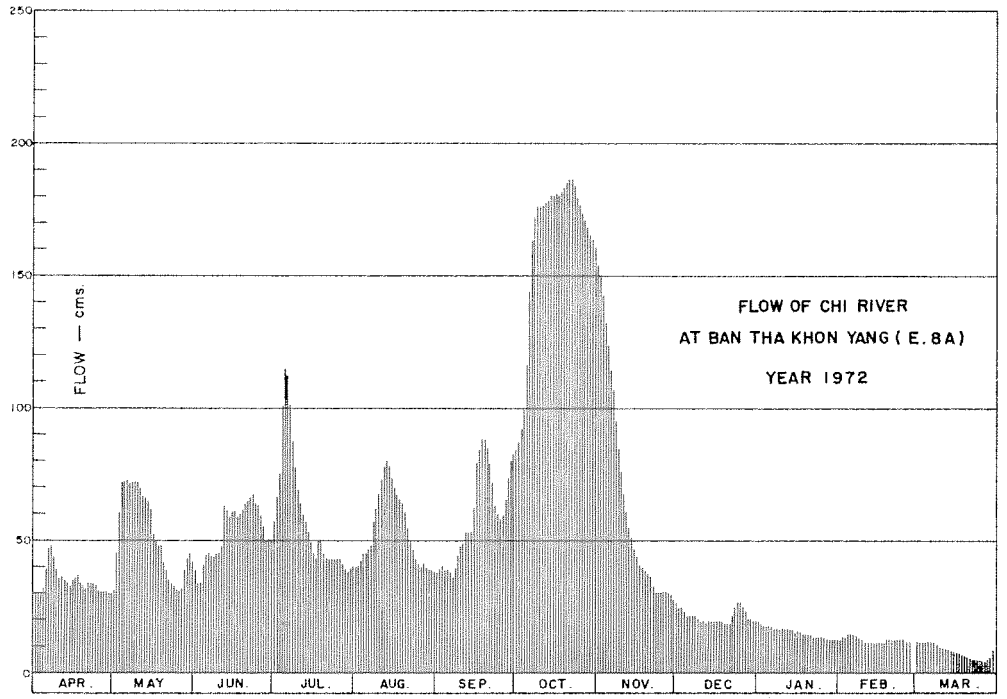
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation, defined by 20 discharge measurements made in 1972. Flow regulated by Ubonrat Dam at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.41	134.44	134.55	134.99	134.58	134.54	135.56	136.87	133.37	134.24	134.10	134.06
2	.41	.67	.49	135.19	.59	.57	.62	.77	.34	.22	.11	.06
3	.42	135.05	.49	.38	.64	.59	.71	.64	.33	.21	.12	.06
4	.45	.31	.59	.90	.72	.57	.86	.47	.31	.21	.14	.07
5	.57	.32	.69	136.14	.71	.55	136.17	.38	.29	.20	.14	.07
6	134.75	135.33	134.72	136.11	134.76	134.54	136.67	136.13	134.29	134.20	134.14	134.06
7	.77	.32	.68	135.87	.77	.51	137.03	135.96	.28	.19	.13	.06
8	.68	.32	.68	.61	.95	.55	.20	.77	.28	.19	.12	.06
9	.56	.32	.72	.42	135.09	.69	.26	.56	.27	.19	.11	.05
10	.51	.32	.71	.24	.21	.77	.26	.40	.25	.18	.10	.03
11	134.51	135.27	134.79	135.13	135.34	134.80	136.26	135.23	134.24	134.18	134.09	134.02
12	.50	.19	135.11	.02	.43	.90	.28	.07	.23	.18	.07	.01
13	.49	.18	.07	134.99	.47	.88	.31	134.93	.24	.17	.07	.00
14	.47	.15	.03	.89	.42	.89	.33	.83	.24	.17	.07	133.99
15	.48	.08	.04	.81	.34	135.10	.34	.76	.25	.16	.06	.98
16	134.51	134.87	135.06	134.72	135.25	135.45	137.36	134.68	134.25	134.16	134.06	133.97
17	.53	.80	.03	.67	.18	.54	.34	.63	.24	.15	.06	.96
18	.48	.81	.04	.83	.15	.64	.36	.58	.24	.14	.07	.94
19	.47	.77	.07	.82	.12	.64	.40	.56	.23	.14	.08	.93
20	.45	.64	.14	.72	.02	.57	.42	.54	.23	.13	.08	.92
21	134.49	134.57	135.14	134.67	134.91	135.42	137.44	134.52	134.23	134.13	134.09	133.90
22	.49	.50	.18	.66	.82	.26	.45	.47	.28	.12	.09	.89
23	.48	.48	.20	.66	.74	.12	.39	.44	.33	.12	.09	.88
24	.47	.46	.14	.67	.66	.05	.32	.43	.37	.12	.08	.87
25	.44	.44	.11	.67	.62	.01	.28	.43	.36	.11	.08	.87
26	134.43	134.44	135.02	134.67	134.61	135.02	137.23	134.44	134.34	134.11	134.07	133.86
27	.43	.45	134.94	.62	.63	.13	.18	.44	.31	.10	.07	.86
28	.44	.55	.83	.57	.61	.33	.12	.44	.26	.10	.06	.87
29	.42	.67	.82	.54	.57	.48	.07	.42	.26	.09		.91
30	.42	.71	.81	.56	.55	.53	.02	.39	.25	.09		.98
31		.65		.58	.54		136.95		.24	.09		134.03
Mean	134.50	134.87	134.89	135.01	134.90	135.02	137.00	135.13	134.27	134.15	134.09	133.97
Max.	134.77	135.33	135.20	136.14	135.47	135.64	137.45	136.87	134.37	134.24	134.14	134.07
Min.	134.41	134.44	134.49	134.54	134.54	134.51	135.56	134.39	134.23	134.09	134.06	133.86

WATER YEAR 1972 : Max. 137.45 m. Min. 133.86 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	30	31	39	57	40	38	84	154	27	20	13	12
2	30	43	34	66	40	39	87	149	25	19	14	12
3	30	60	34	75	42	40	92	142	25	18	14	12
4	32	72	40	101	45	39	99	132	24	18	15	12
5	39	72	44	114	45	39	116	123	22	18	15	12
6	47	73	45	112	47	38	143	114	22	18	15	12
7	48	72	44	100	48	36	163	104	22	17	15	12
8	44	72	44	87	56	39	172	95	22	17	14	12
9	39	72	45	77	62	44	176	84	21	17	14	11
10	36	72	45	69	67	48	176	76	20	17	13	10
11	36	70	48	64	73	49	176	68	20	17	13	10
12	35	66	63	59	78	53	177	61	19	17	12	9.45
13	34	66	61	57	80	53	178	55	20	17	12	9.00
14	33	65	59	53	78	53	180	50	20	17	12	8.70
15	34	62	60	49	73	62	180	47	20	16	12	8.40
16	36	52	61	45	69	79	181	44	20	16	12	8.10
17	37	49	59	43	66	83	180	41	20	16	12	7.80
18	34	49	60	50	65	88	181	40	20	15	12	7.20
19	33	48	61	50	63	88	183	39	19	15	13	6.90
20	32	42	64	45	59	85	185	38	19	15	13	6.60
21	34	39	64	43	54	77	186	37	19	15	13	6.00
22	34	35	66	43	50	70	186	33	22	14	13	5.70
23	34	34	67	43	46	63	183	31	25	14	13	5.40
24	33	33	64	43	43	60	179	31	27	14	13	5.10
25	31	31	63	43	41	58	177	31	27	14	13	5.10
26	31	31	59	43	40	59	174	31	25	14	12	4.80
27	31	32	55	41	41	64	171	31	24	13	12	4.80
28	31	39	50	39	40	73	168	31	21	13	12	5.10
29	30	43	50	38	39	80	165	30	21	13		6.30
30	30	45	50	39	39	83	163	28	20	13		8.40
31		42		40	38		159		20	13		10
Total	1,038	1,612	1,598	1,828	1,667	1,780	5,020	1,970	678	490	366	265.85
Mean	34.6	52.0	53.3	59.0	53.8	59.3	162	65.7	21.9	15.8	13.1	8.58
Max.	48	73	67	114	80	88	186	154	27	20	15	12
Min.	30	31	34	38	38	36	84	28	19	13	12	4.80
Runoff - MCM.	89.683	139.277	138.067	157.939	144.029	153.792	433.728	170.208	58.579	42.336	31.622	22.969

WATER YEAR 1972 : Max. 186 Min. 4.80 Mean 50.2 Annual Runoff 1,582.230 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.22	18.00	137.45	186				

CHI RIVER BASIN

Chi River at Ban Tha Nang Luan, Khon Kaen (E9)

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 – May, December – March and 06.00, 09.00, 12.00, 15.00, 18.00 hours on June – November respectively.

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

Period of Available Gauge 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.

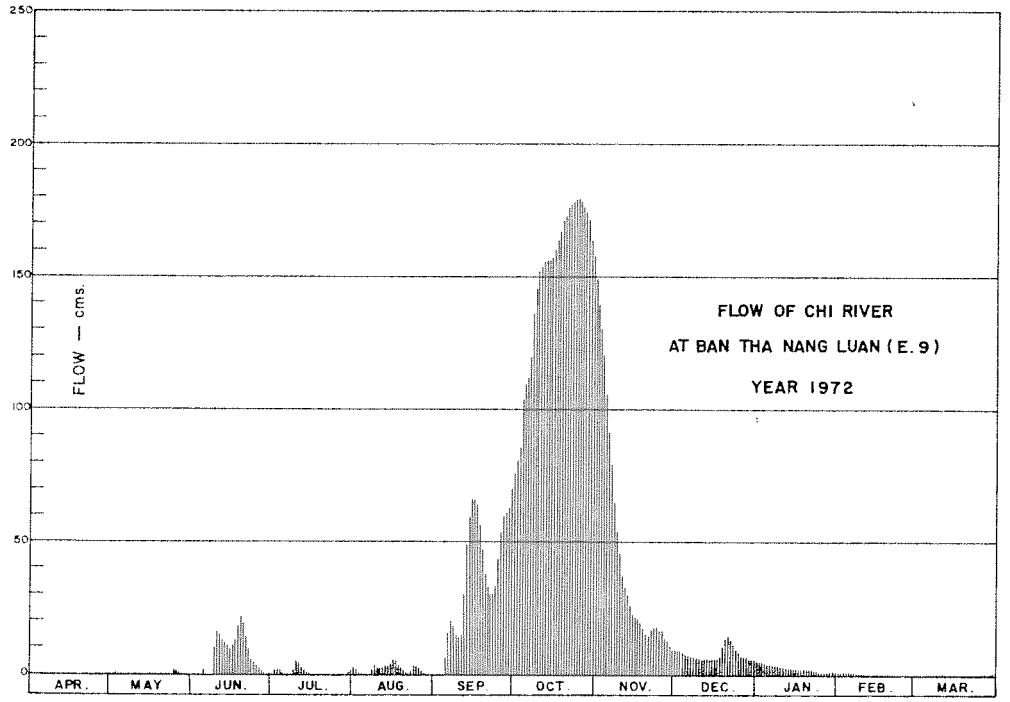
General Description: Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1972.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.38	1.35	1.31	1.58	1.76	1.49	5.16	7.57	2.17	1.80	1.36	1.12
2	.39	.51	.30	.68	.70	.46	.31	.26	.14	.76	.35	.12
3	.40	.59	.32	.70	.60	.47	.44	6.89	.12	.73	.34	.11
4	.43	.54	.57	.63	.54	.49	6.09	.52	.08	.71	.35	.10
5	.40	.49	.66	.55	.51	.99	.30	.10	.04	.69	.32	.08
6	1.39	1.44	1.48	1.48	1.47	2.65	6.32	5.65	2.02	1.66	1.31	1.06
7	.36	.44	.42	.42	.47	.81	.63	.20	1.98	.63	.30	.09
8	.36	.38	.48	.40	.64	.75	7.13	4.70	.94	.63	.31	.23
9	.36	.36	2.27	.67	.77	.57	.48	.27	.92	.62	.30	.24
10	.37	.35	.61	.90	.76	.51	.68	3.93	.89	.58	.28	.23
11	1.34	1.34	2.59	1.86	1.74	2.59	7.75	3.59	1.87	1.58	1.28	1.25
12	.34	.32	.47	.75	.76	3.30	.80	.41	.87	.55	.29	.22
13	.34	.31	.38	.69	.77	4.03	.81	.30	.92	.53	.27	.21
14	.34	.30	.29	.60	.77	.48	.81	.13	.90	.52	.26	.20
15	.33	.30	.20	.53	.85	.76	.84	.00	.88	.52	.24	.18
16	1.31	1.32	2.29	1.49	1.95	4.76	7.94	0.95	1.87	1.50	1.24	1.16
17	.34	.31	.42	.45	.93	.63	8.05	.90	.88	.50	.23	.14
18	.37	.30	.72	.42	.82	.32	.15	.83	.97	.50	.22	.13
19	.42	.29	.94	.41	.73	3.97	.25	.72	2.25	.50	.21	.12
20	.44	.27	.83	.38	.64	.61	.33	.63	.49	.47	.21	.11
21	1.45	1.26	2.51	1.35	1.59	3.42	8.39	2.60	2.55	1.46	1.20	1.05
22	.44	.28	.17	.34	.59	.31	.43	.70	.44	.44	.20	.04
23	.44	.25	1.94	.35	.69	.29	.46	.75	.34	.43	.21	.05
24	.44	.40	.86	.40	.78	.46	.48	.73	.19	.42	.19	.04
25	.42	.63	.82	.46	.78	.86	.49	.67	.07	.41	.17	.04
26	1.43	1.62	1.75	1.50	1.73	4.25	8.46	2.67	1.98	1.40	1.16	1.00
27	.44	.54	.65	.48	.65	.51	.41	.49	.94	.40	.16	.00
28	.42	.47	.55	.44	.58	.56	.34	.39	.90	.38	.14	.00
29	.39	.41	.52	.43	.52	.61	.20	.29	.87	.38		.00
30	.37	.35	.54	.43	.48	.91	.04	.21	.85	.38		.05
31		.33		.69	.53		7.83		.81	.38		.05
Mean	1.38	1.57	2.19	1.69	1.75	3.72	7.60	3.92	2.04	1.64	1.25	1.11
Max.	1.44	1.63	2.94	1.90	1.95	4.91	8.49	7.57	2.55	1.80	1.36	1.25
Min.	1.31	1.30	1.30	1.34	1.47	1.46	5.16	2.21	1.81	1.38	1.14	1.00

WATER YEAR 1972 : Max. 8.49 m. Min. 1.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.00	0.00	0.80	2.90	0.00	76	149	9.91	5.70	1.42	0.10
2		0.10	0.00	1.80	2.00	0.00	81	139	9.52	5.30	1.35	0.10
3		0.90	0.00	2.00	1.00	0.00	85	128	9.26	5.00	1.28	0.05
4		0.40	0.00	1.30	0.40	0.00	104	117	8.74	4.80	1.35	0.00
5		0.00	1.60	0.50	0.10	6.35	110	104	8.22	4.60	1.14	0.00
6			0.00	0.00	0.00	16	111	91	7.96	4.30	1.07	0.00
7			0.00	0.00	0.00	20	120	77	7.50	4.00	1.00	0.00
8			0.00	0.00	1.40	18	135	65	7.10	4.00	1.07	0.65
9			10	1.70	3.05	15	146	54	6.90	3.90	1.00	0.70
10			16	5.00	2.90	14	152	46	6.60	3.50	0.90	0.65
11			15	4.40	2.60	15	154	37	6.40	3.50	0.90	0.75
12			13	2.75	2.90	30	155	33	6.40	3.20	0.95	0.60
13			12	1.90	3.05	48	156	30	6.90	3.00	0.85	0.55
14			11	1.00	3.05	59	156	26	6.70	2.90	0.80	0.55
15			9.50	0.30	4.25	66	157	23	6.50	2.90	0.70	0.40
16			11		5.75	66	160	22	6.40	2.70	0.70	0.30
17			13		5.45	63	164	21	6.50	2.70	0.65	0.20
18			18		3.80	56	167	20	7.40	2.70	0.60	0.15
19			22		2.45	47	171	18	11	2.70	0.55	0.10
20			20		1.40	38	173	16	14	2.40	0.55	0.05
21			14		0.90	33	176	15	15	2.30	0.50	
22			9.05		0.90	30	177	17	14	2.10	0.50	
23			5.60		1.90	30	178	18	12	2.00	0.55	
24			4.40		3.20	34	179	18	10	1.90	0.45	
25		1.30	3.80		3.20	44	179	17	8.61	1.80	0.35	
26		1.20	2.75		2.45	54	178	17	7.50	1.70	0.30	
27		0.40	1.50		1.50	60	176	14	7.10	1.70	0.30	
28		0.00	0.50		0.80	61	174	13	6.70	1.56	0.20	
29		0.00	0.20		0.20	63	169	11	6.40	1.56		
30		0.00	0.40		0.00	70	163	10	6.20	1.56		
31		0.00		1.90	0.30		156		5.80	1.66		
Total	0.00	4.30	214.30	25.35	63.80	1,056.35	4,638	1,366	259.22	93.54	21.98	5.85
Mean	0.00	0.72	9.32	1.95	2.78	40.6	150	45.5	8.36	3.02	0.78	0.19
Max.	0.00	1.30	22	5.00	5.75	70	179	149	15	5.70	1.42	0.75
Min.	0.00	0.00	0.00	0.00	0.00	0.00	76	10	5.80	1.56	0.20	0.00
Runoff - mcm.	0.000	0.371	18.515	2.191	5.512	91.269	400.723	118.022	22.397	8.082	1.899	0.505

WATER YEAR 1972 : Max. 179 Min. 0.00 Mean 21.2 Annual Runoff 669.487 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.25	0.06	8.49	179				

CHI RIVER BASIN

Chi River at Highway Bridge (Ban Tha Phra), Khon Kaen (E16A)

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.

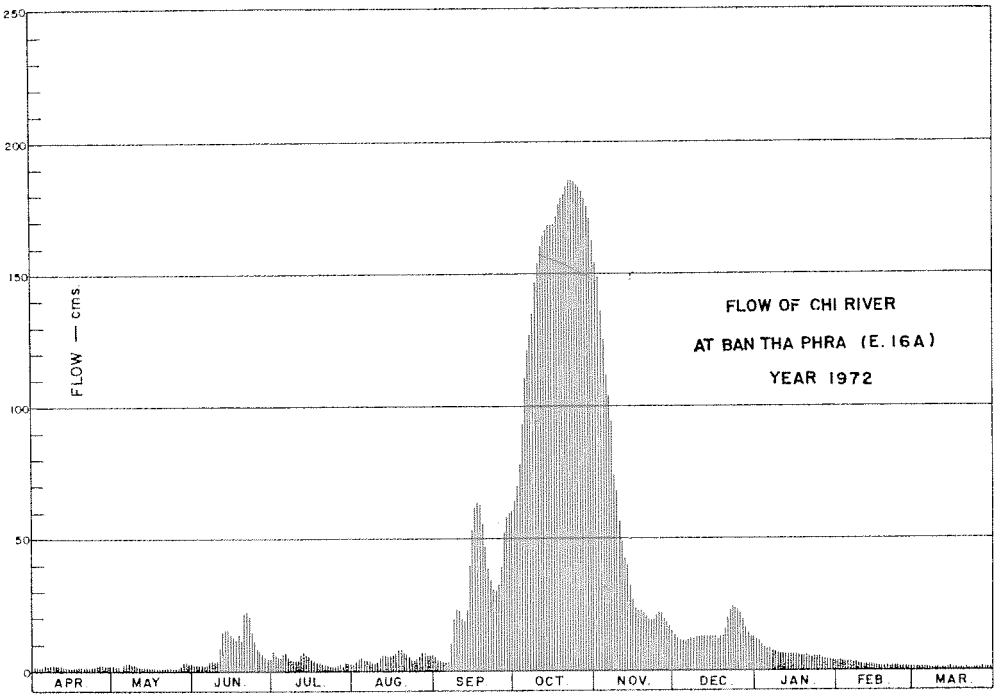
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 29 discharge measurements made in 1972. Flow regulated by Nam Phong Dam at above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142.97	143.04	143.14	143.55	143.11	143.42	145.32	146.92	143.88	143.80	143.26	142.95
2	.97	.03	.13	.46	.30	.34	.44	.79	.81	.75	.24	.95
3	.97	.01	.09	.41	.37	.28	.57	.62	.78	.71	.24	.95
4	.99	142.99	.07	.42	.39	.24	.88	.42	.77	.66	.23	.95
5	143.07	143.09	.05	.48	.35	.23	146.19	.22	.77	.62	.22	.94
6	143.06	143.17	143.13	143.53	143.30	143.25	146.36	146.07	143.79	143.59	143.19	142.94
7	.06	.17	.23	.42	.28	.74	.46	.77	.80	.56	.17	.93
8	.05	.14	.25	.35	.21	144.12	.59	.52	.82	.53	.16	.92
9	.05	.10	.23	.32	.19	.23	.76	.22	.84	.51	.14	.91
10	.03	.07	.25	.31	.26	.20	.90	.10	.86	.50	.13	.90
11	143.01	143.02	143.64	143.32	143.41	144.12	146.99	144.95	143.85	143.49	143.08	142.89
12	142.99	.00	.93	.51	.44	.09	147.04	.83	.85	.47	.07	.89
13	.99	142.99	.98	.53	.44	.21	.07	.74	.85	.46	.05	.89
14	.98	.97	.95	.49	.45	.75	.10	.55	.85	.46	.04	.91
15	.98	.96	.90	.42	.46	145.08	.10	.39	.84	.44	.03	.92
16	142.97	142.95	143.85	143.37	143.47	145.24	147.10	144.27	143.83	143.45	143.02	142.91
17	.97	.94	.81	.31	.51	.30	.15	.22	.82	.44	.00	.89
18	.97	.95	.87	.23	.58	.27	.21	.20	.83	.44	142.99	.88
19	.97	.95	144.02	.18	.58	.27	.25	.17	.85	.43	.99	.88
20	.96	.95	.19	.14	.52	144.85	.28	.13	.96	.42	.99	.88
21	142.96	142.95	144.26	143.12	143.45	144.71	147.32	144.09	144.10	143.41	142.99	142.88
22	.97	.95	.16	.08	.38	.60	.35	.06	.23	.40	.98	.87
23	143.01	.96	143.98	.05	.32	.50	.35	.08	.28	.39	.97	.87
24	.04	.96	.79	.02	.32	.47	.35	.13	.26	.38	.97	.89
25	.06	.96	.63	.01	.32	.53	.33	.17	.21	.38	.96	.90
26	143.08	142.96	143.56	143.04	143.47	144.70	147.32	144.17	144.14	143.36	142.95	142.90
27	.09	143.04	.49	.10	.52	145.03	.29	.12	.07	.31	.95	.94
28	.06	.19	.44	.15	.52	.19	.25	.07	143.98	.30	.95	.94
29	.05	.21	.36	.17	.49	.20	.20	.01	.92	.29	–	.91
30	.05	.18	.30	.16	.44	.22	.13	143.95	.89	.28	–	.90
31	–	.15	–	.14	.46	–	.03	–	.85	.27	–	.88
Mean	143.01	143.03	143.59	143.28	143.39	144.41	146.85	145.00	143.92	143.47	143.07	142.90
Max.	143.09	143.21	144.26	143.55	143.58	145.30	147.35	146.92	144.28	143.80	143.26	142.95
Min.	142.96	142.94	143.05	143.01	143.11	143.23	145.32	143.95	143.77	143.27	142.95	142.87

WATER YEAR 1972 : Max. 147.35 m. Min. 142.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.56	2.12	2.92	7.60	2.68	5.52	64	156	14	12	3.88	1.40
2	1.56	2.04	2.84	6.06	4.20	4.60	70	147	12	11	3.72	1.40
3	1.56	1.88	2.52	5.36	4.90	4.04	77	137	12	10	3.72	1.40
4	1.72	1.72	2.36	5.52	5.10	3.72	93	125	11	9.36	3.64	1.40
5	2.36	2.52	2.20	6.38	4.70	3.64	111	112	11	8.72	3.56	1.32
6	2.28	3.16	2.84	7.28	4.20	3.80	119	104	12	8.24	3.32	1.32
7	2.28	3.16	3.64	5.52	4.04	11	127	87	12	7.76	3.16	1.24
8	2.20	2.92	3.80	4.70	3.48	20	135	74	12	7.28	3.08	1.16
9	2.20	2.60	3.64	4.40	3.32	23	146	63	13	6.96	2.92	1.08
10	2.04	2.36	3.80	4.30	3.88	23	155	54	13	6.80	2.84	1.00
11	1.88	1.96	9.04	4.40	5.36	20	160	48	13	6.54	2.44	0.92
12	1.72	1.80	15	6.96	5.84	19	164	44	13	6.22	2.36	0.92
13	1.72	1.72	16	7.28	5.84	23	166	40	13	6.06	2.20	0.92
14	1.64	1.56	16	6.54	5.90	40	168	33	13	6.06	2.12	1.08
15	1.64	1.48	14	5.52	6.06	54	168	27	13	6.06	2.04	1.16
16	1.56	1.40	13	4.90	6.22	61	168	24	13	5.90	1.96	1.08
17	1.56	1.32	12	4.30	6.96	64	171	23	12	5.84	1.80	0.92
18	1.56	1.40	14	3.64	8.08	62	175	23	13	5.84	1.72	0.84
19	1.56	1.40	17	3.24	8.08	53	178	22	13	5.68	1.72	0.84
20	1.48	1.40	22	2.92	7.12	44	180	21	16	5.52	1.72	0.84
21	1.48	1.40	23	2.76	5.90	39	* 183	19	20	5.36	1.72	0.84
22	1.56	1.40	21	2.44	5.00	35	* 185	19	23	5.20	1.64	* 0.76
23	1.88	1.48	16	2.20	4.40	31	185	19	25	5.10	1.56	0.76
24	2.12	1.48	12	1.96	4.40	30	185	21	24	5.00	1.56	0.92
25	2.28	1.48	8.88	1.88	5.00	32	184	22	23	5.00	1.48	1.00
26	2.44	1.48	7.78	2.12	6.22	39	183	22	21	4.80	1.40	1.00
27	2.52	2.12	6.54	2.60	7.12	52	181	20	19	4.30	1.40	1.32
28	2.22	3.32	5.84	3.00	7.12	58	178	19	16	4.20	1.40	1.32
29	2.20	3.48	4.80	3.16	6.54	59	175	17	14	4.12	–	1.08
30	2.20	3.24	4.20	3.08	5.84	60	170	16	13	4.04	–	1.00
31	–	3.00	–	2.92	6.06	–	163	–	13	3.96	–	0.84
Total	57.04	63.80	288.64	135.94	169.56	977.32	4,767	1,558	465	198.92	66.08	33.08
Mean	1.90	2.06	9.62	4.38	5.47	32.6	153	51.9	15.0	6.42	2.36	1.07
Max.	2.52	3.48	23	7.60	8.08	64	185	156	25	12	3.88	1.40
Min.	1.48	1.32	2.20	1.88	2.68	3.64	64	16	11	3.96	1.40	0.76
Runoff - mcm.	4.928	5.512	24.938	11.745	14.650	84.440	411.869	134.611	20.176	17.187	5.709	2.858

WATER YEAR 1972 : Max. 185 Min. 0.76 Mean 24.0 Annual Runoff 738.623 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.23,72	24.00	147.36	186				

CHI RIVER BASIN

Nam Phong at Highway Bridge (Ban Tha Hin), Khon Kaen (E17)

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, 18.00 hours on April, December – March and 06.00, 09.00, 12.00, 15.00 and 18.00 hours on May – November.

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

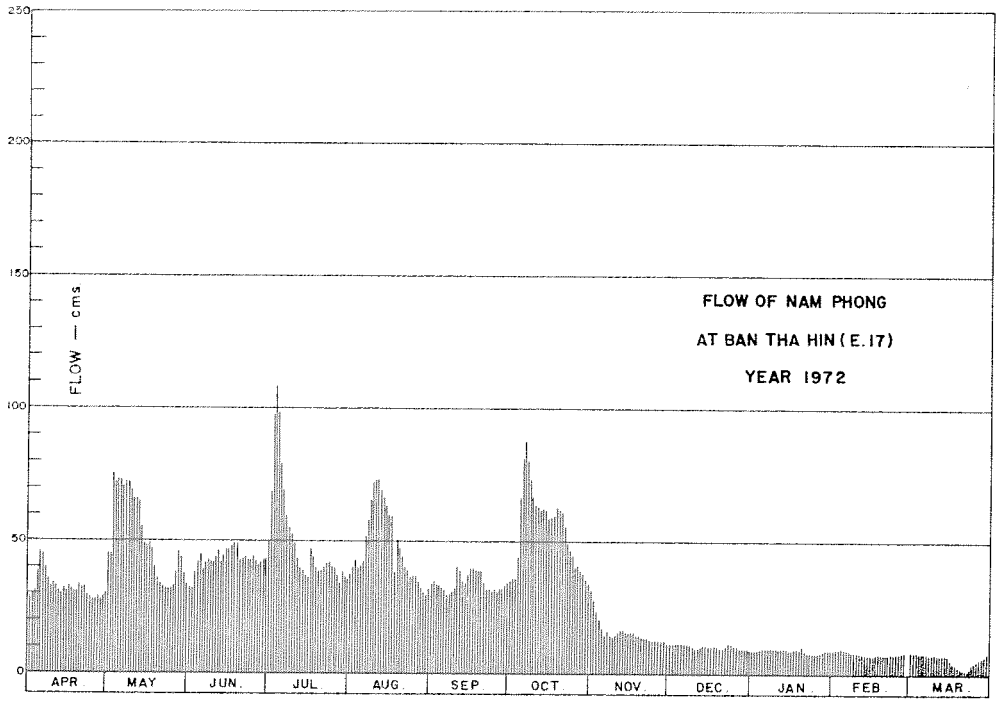
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 23 discharge measurements made in 1972. Flow regulated by Ubonrat Dam at above gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.11	2.66	2.25	2.79	2.44	2.31	2.35	2.23	1.45	1.30	1.30	1.26
2	.16	3.22	.24	3.03	.51	.35	.37	.12	.44	.33	.33	.27
3	.20	.48	.43	4.03	.58	.30	.38	1.97	.43	.36	.36	.27
4	.44	.40	.56	.29	.49	.32	.36	.83	.43	.36	.36	.25
5	.69	.42	.64	3.93	.52	.29	.25	.73	.42	.33	.33	.24
6	2.66	3.42	2.48	3.49	2.57	2.23	3.61	1.69	1.42	1.32	1.33	1.23
7	.50	.38	.57	.20	.84	.19	.72	.62	.42	.29	.29	.23
8	.34	.40	.59	.03	3.02	.19	.63	.57	.42	.28	.28	.21
9	.26	.40	.56	2.94	.23	.22	.38	.56	.39	.25	.25	.21
10	.32	.32	.57	.85	.40	.25	.23	.60	.33	.24	.24	.21
11	2.28	3.23	2.62	2.75	3.43	2.51	3.17	1.64	1.32	1.24	1.24	1.21
12	.22	.23	.69	.60	.43	.46	.16	.67	.36	.23	.23	.21
13	.18	.19	.56	.51	.33	.33	.13	.66	.37	.22	.22	.21
14	.24	.93	.66	.47	.25	.30	.14	.64	.41	.21	.21	.22
15	.27	.77	.72	.40	.15	.42	.12	.63	.41	.21	.21	.19
16	2.25	2.74	2.72	2.38	3.08	2.49	3.04	1.62	1.39	1.21	1.21	1.08
17	.22	.78	.74	.72	.04	.49	.05	.63	.38	.22	.22	.00
18	.20	.70	.75	.61	2.45	.47	.08	.61	.37	.23	.23	0.95
19	.20	.50	.76	.50	.83	.46	.14	.59	.37	.23	.23	.88
20	.32	.39	.59	.47	.72	.36	.13	.56	.34	.22	.22	.84
21	2.27	2.32	2.60	2.47	2.62	2.30	3.11	1.53	1.33	1.21	1.21	0.80
22	.27	.28	.62	.50	.51	.23	2.95	.52	.37	.21	.21	.75
23	.18	.25	.60	.55	.47	.23	.78	.51	.42	.22	.22	.80
24	.13	.24	.60	.56	.41	.21	.72	.50	.42	.22	.22	.95
25	.11	.23	.61	.54	.41	.23	.70	.49	.40	.22	.22	1.01
26	2.12	2.26	2.60	2.49	2.40	2.22	2.50	1.49	1.37	1.22	1.22	1.05
27	.13	.45	.53	.41	.35	.24	.53	.49	.36	.23	.23	.10
28	.12	.56	.57	.32	.28	.28	.47	.48	.34	.26	.26	.12
29	.13	.62	.60	.43	.21	.26	.44	.47	.33	.29		.16
30	.18	.45	.59	.36	.18	.30	.38	.45	.32	.29		.18
31		.31		.38	.22		.31		.30	.29		.23
Mean	2.26	2.82	2.58	2.74	2.71	2.31	2.92	1.64	1.38	1.30	1.25	1.11
Max.	2.69	3.48	2.76	4.29	3.43	2.51	3.72	2.23	1.45	1.39	1.36	1.27
Min.	2.11	2.23	2.24	2.32	2.18	2.19	2.31	1.45	1.30	1.24	1.21	0.75

WATER YEAR 1972 : Max. 4.29 m. Min. 0.75 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	28	45	32	50	38	34	35	32	12	9.20	9.20	8.56
2	30	45	32	58	40	35	36	28	12	9.20	9.80	8.72
3	31	75	38	97	43	34	36	24	12	9.40	10	8.72
4	38	72	42	108	40	34	44	21	12	9.40	10	8.40
5	46	73	45	93	41	33	66	18	12	10	9.80	8.24
6	45	73	39	76	42	32	80	15	12	10	9.60	8.08
7	40	71	42	65	52	30	85	16	12	10	9.04	8.08
8	35	72	43	58	58	30	81	15	12	10	8.88	7.76
9	33	72	42	55	66	31	71	14	11	10	8.40	7.76
10	34	69	42	52	72	32	66	15	10	10	8.24	7.76
11	33	66	44	49	73	40	64	16	10	10	8.24	7.76
12	31	66	48	43	73	39	63	17	10	10	8.08	7.76
13	30	64	42	40	69	35	62	17	11	10	7.92	7.76
14	32	55	45	39	67	34	63	16	11	10	7.76	7.92
15	31	49	47	37	63	37	62	16	11	9.04	7.76	7.44
16	33	48	47	36	60	40	59	16	11	9.04	7.76	5.74
17	32	50	48	47	59	40	59	16	11	9.40	7.92	4.60
18	31	47	49	44	38	39	60	15	11	10	8.08	3.90
19	31	40	49	40	51	39	63	15	11	9.40	8.08	3.00
20	34	36	43	39	47	39	62	14	10	11	7.92	2.60
21	33	34	43	39	44	34	61	14	10	9.04	7.76	2.20
22	33	33	44	40	40	32	56	14	11	8.88	7.76	1.70
23	30	32	43	42	39	32	49	13	12	8.56	7.92	2.20
24	29	32	43	42	37	31	47	13	12	8.40	7.92	3.90
25	28	32	44	41	37	32	46	13	11	8.24	7.92	4.74
26	28	33	43	40	37	31	40	13	11	8.40	7.92	5.30
27	29	38	41	37	35	32	41	13	10	8.56	8.08	6.00
28	28	46	42	34	33	32	39	13	10	8.72	8.56	6.32
29	29	44	43	38	31	33	38	13	10	9.04		6.98
30	30	38	43	36	30	34	36	12	10	9.04		7.88
31		34		36	31		34		9.20	9.20		8.08
Total	975	1,604	1,286	1,551	1,486	1,031	1,704	487	340.20	291.16	236.32	195.26
Mean	32.5	51.7	42.6	50.0	47.9	34.4	55.0	16.2	11.0	9.39	8.44	6.30
Max.	46	75	49	108	73	40	85	32	12	11	10	8.72
Min.	28	32	32	34	30	30	34	12	9.20	8.24	7.76	1.70
Runoff - MCM.	84.240	138.586	111.110	134.006	128.390	89.078	147.226	42.077	29.393	25.156	20.418	16.870

WATER YEAR 1972 : Max. 108 Min. 1.70 Mean 30.6 Annual Runoff 966.552 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 4	18.00	4.32	109				

CHI RIVER BASIN

Chi River at District Office, Yasothon (E20)

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, Yasothon.

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 Thai Army 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, 18.00 hours.

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

Period of Available Gage Records: 1955-1961, 1968-1973, 1976.

Rating Operation:

Period of Rating: 1972-1973
Rated by Float: -
Rated by Current Meter: 1972-1973

Stability of Channel Regimes: Fairly stable because of backwater effect and with variable water surface slope, no shifting adjustment for flow computation.

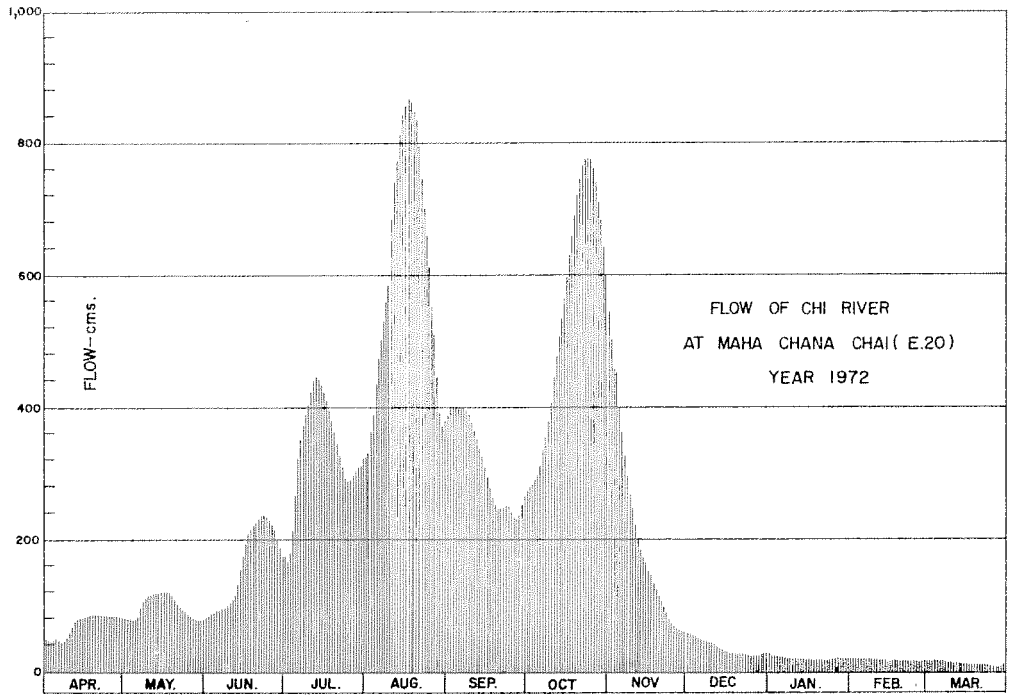
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage discharge relation defined by 28 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	115.01	115.48	115.51	116.62	118.18	118.69	117.65	119.75	115.56	114.94	114.70	114.63
2	114.97	.47	.53	.51	.33	.77	.70	.53	.54	.90	.69	.63
3	.94	.46	.56	.75	.66	.80	.73	.21	.49	.84	.69	.62
4	.96	.44	.59	117.32	.74	.80	.81	118.99	.45	.83	.70	.62
5	115.00	.44	.68	.94	119.20	.77	.90	.70	.39	.81	.71	.62
6	114.98	115.48	115.64	118.27	119.42	118.78	118.09	118.36	115.35	114.80	114.71	114.62
7	.94	.68	.68	.46	.58	.77	.27	.06	.34	.77	.71	.61
8	.96	.80	.66	.59	.75	.75	.44	117.82	.33	.76	.71	.57
9	115.02	.88	.71	.75	.90	.67	.66	.61	.30	.75	.67	.54
10	.13	.90	.81	.93	120.16	.58	.87	.44	.27	.75	.67	.52
11	115.27	115.93	115.87	119.02	120.40	118.48	119.11	117.30	115.22	114.75	114.67	114.51
12	.41	.95	.94	.10	.57	.40	.31	.14	.16	.73	.67	.51
13	.43	.95	116.11	.12	.72	.23	.48	.02	.08	.72	.66	.50
14	.46	.95	.38	.09	.85	.06	.67	116.91	.04	.72	.65	.49
15	.47	.99	.63	.03	.94	117.93	.83	.81	.00	.71	.62	.47
16	115.50	115.98	116.86	118.95	120.98	117.78	119.97	116.70	114.97	114.70	114.61	114.47
17	.53	.96	.98	.86	121.02	.63	120.09	.60	.94	.70	.64	.46
18	.54	.98	117.09	.73	.02	.53	.23	.51	.92	.70	.64	.45
19	.55	.93	.13	.59	120.99	.43	.40	.41	.91	.69	.64	.44
20	.55	.83	.20	.44	.93	.35	.51	.32	.91	.69	.63	.43
21	115.55	115.76	117.26	118.32	120.80	117.38	120.58	116.28	114.90	114.68	114.63	114.44
22	.54	.71	.29	.12	.64	.38	.65	.08	.89	.67	.62	.43
23	.52	.68	.30	117.97	.39	.44	.69	115.94	.87	.67	.62	.42
24	.53	.63	.26	.83	.19	.41	.70	.84	.86	.70	.61	.41
25	.51	.58	.20	.79	.00	.32	.69	.77	.85	.73	.61	.39
26	115.51	115.53	117.13	117.80	119.67	117.24	120.65	115.71	114.84	114.74	114.62	114.36
27	.51	.49	.02	.87	.43	.21	.59	.66	.84	.74	.62	.35
28	.51	.47	116.88	.94	118.97	.25	.48	.63	.91	.74	.62	.35
29	.51	.44	.74	.99	.67	.38	.34	.60	.93	.72	-	.40
30	.49	.42	.60	118.01	.53	.54	.18	.57	.94	.71	-	.47
31	-	.46	-	.13	.61	-	.00	-	.96	.71	-	.51
Mean	115.33	115.70	116.44	118.22	119.88	117.99	119.52	117.04	115.09	144.74	114.65	114.49
Max.	115.55	115.99	117.30	119.12	121.02	118.80	120.70	119.75	115.56	114.94	114.71	114.63
Min.	114.94	115.42	115.51	116.51	118.18	117.21	117.65	115.57	114.84	114.67	114.61	114.35

WATER YEAR 1972 : Max. 121.02 m. Min. 114.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	50	83	85	178	* 330	* 390	276	* 557	62	31	21	18
2	47	82	86	168	* 347	* 400	281	* 510	60	29	21	18
3	45	81	89	189	* 386	* 403	284	* 461	57	27	21	18
4	47	80	91	243	* 396	* 403	292	* 429	55	26	21	18
5	49	80	98	305	* 460	* 400	301	* 391	52	25	21	18
6	48	83	95	* 341	* 497	* 401	* 320	* 351	50	25	21	18
7	45	98	98	* 362	* 524	* 400	* 341	* 317	50	24	21	18
8	47	108	97	* 377	* 557	* 397	* 360	293	49	23	21	16
9	50	114	101	* 397	* 587	* 387	* 386	272	48	23	20	15
10	58	116	109	* 421	* 644	* 376	* 413	255	46	23	20	15
11	68	118	114	* 433	* 700	* 365	* 447	231	44	23	20	14
12	78	120	119	* 445	* 744	* 355	* 478	209	41	22	20	14
13	79	120	133	* 448	* 784	* 336	* 507	193	37	22	20	14
14	81	120	156	* 444	* 820	* 317	* 541	178	35	22	19	14
15	82	123	179	* 435	* 845	304	* 573	166	33	21	18	13
16	84	122	199	* 424	* 857	289	* 601	154	32	21	18	13
17	86	121	210	* 411	* 868	274	* 628	144	31	21	19	13
18	87	122	220	* 395	* 868	264	* 660	135	30	21	19	12
19	88	118	224	* 377	* 859	254	* 700	126	29	21	19	12
20	88	110	231	* 360	* 842	246	* 728	118	29	21	18	11
21	88	105	237	* 346	* 806	249	* 746	114	29	20	18	12
22	87	101	240	* 324	* 762	149	* 765	98	29	20	18	11
23	86	98	241	308	* 698	255	* 776	88	28	20	18	11
24	86	94	237	294	* 651	252	* 778	81	27	21	18	11
25	85	90	231	290	* 608	243	* 776	76	27	22	18	10
26	85	86	224	291	* 541	235	* 765	72	27	23	18	9.30
27	85	83	214	298	* 498	232	* 749	68	27	23	18	9.00
28	85	82	201	305	* 426	235	* 721	66	29	23	18	9.00
29	85	80	189	310	* 387	249	* 686	64	30	22	-	10
30	83	78	176	312	* 370	265	* 648	62	31	21	-	13
31	-	81	-	324	* 380	-	* 608	-	32	21	-	14
Total	2,162	3,097	4,924	10,565	19,042	9,426	17,135	6,279	1,186	707	542	421.30
Mean	72.1	99.9	164	341	635	314	553	209	38.2	22.8	19.3	13.6
Max.	88	123	241	448	868	403	778	557	62	31	21	18
Min.	45	78	85	168	330	232	276	62	27	20	18	9.00
Runoff - mcm.	186.797	267.581	425.434	912.816	1,645.229	814.406	1,480.464	542.506	102.470	61.085	46.829	36.400

WATER YEAR 1972 : Max. 868 Min. 9.00 Mean 207 Annual Runoff 6,522.016 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.18	06.00	121.03	891				

CHI RIVER BASIN

Chi River at Highway Bridge (Ban Kaeng Ko), Chaiyaphum (E21)

Location: Lat. 15°-45'-07" N., Long. 102°-15'-24" E., on left bank about 15 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. E21

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: 1968-1971, 1973-1974.
Rated by Float: -
Rated by Current Meter: 1968-1971, 1973-1974.

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

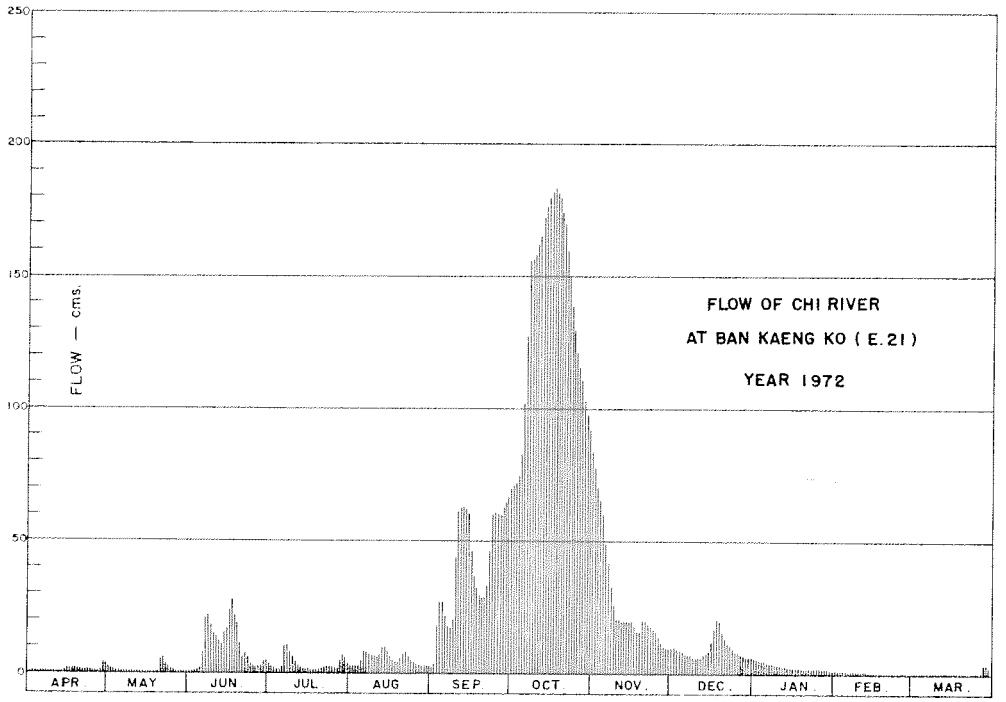
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 87 discharge measurements made in 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.29	1.37	1.26	1.43	1.40	1.39	3.53	4.24	1.61	1.52	1.34	1.26
2	.27	.33	.25	.39	.40	.44	.60	3.88	.60	.50	.34	.26
3	.25	.31	.28	.36	.39	.80	.66	.50	.59	.48	.34	.27
4	.25	.30	.31	.33	.39	.99	.82	.10	.58	.48	.33	.27
5	.26	.30	.34	.32	.46	.98	4.19	2.71	.56	.47	.33	.27
6	1.27	1.29	1.54	1.40	1.56	1.89	4.93	2.41	1.55	1.46	1.33	1.27
7	.27	.28	.86	.63	.56	.80	5.67	.22	.54	.44	.33	.26
8	.26	.28	.88	.62	.53	.78	6.20	.11	.53	.44	.33	.25
9	.26	.27	.80	.55	.52	.87	.44	1.96	.52	.43	.32	.25
10	.26	.26	.72	.52	.52	2.32	.51	.87	.52	.43	.31	.25
11	1.25	1.27	1.69	1.46	1.50	2.75	6.59	1.86	1.51	1.42	1.31	1.25
12	.26	.27	.65	.40	.53	.98	.70	.84	.51	.41	.30	.25
13	.27	.26	.63	.37	.60	3.04	.84	.84	.53	.41	.30	.24
14	.30	.24	.72	.35	.61	2.90	.96	.84	.54	.40	.30	.24
15	.34	.24	.78	.34	.56	.62	7.06	.84	.57	.40	.29	.24
16	1.34	1.24	1.93	1.35	1.51	2.37	7.11	1.84	1.64	1.39	1.29	1.24
17	.34	.25	2.01	.33	.47	.18	.13	.79	.78	.38	.29	.24
18	.34	.26	1.88	.32	.44	.07	.11	.76	.87	.38	.29	.24
19	.34	.24	.69	.32	.44	.05	.04	.76	.84	.38	.29	.24
20	.32	.26	.55	.33	.48	.03	6.93	.84	.76	.37	.29	.24
21	1.31	1.48	1.50	1.35	1.54	2.02	6.76	1.85	1.70	1.37	1.29	1.24
22	.31	.50	.53	.38	.55	.11	.55	.83	.65	.37	.29	.26
23	.31	.43	.50	.40	.52	.36	.29	.80	.62	.37	.29	.25
24	.32	.38	.42	.39	.48	.65	.00	.77	.59	.37	.28	.25
25	.30	.34	.38	.37	.45	.77	5.74	.74	.57	.37	.28	.25
26	1.29	1.31	1.37	1.36	1.43	2.67	5.49	1.69	1.55	1.37	1.28	1.25
27	.29	.29	.39	.34	.40	.66	.30	.65	.54	.36	.28	.30
28	.32	.28	.39	.46	.39	.91	.15	.62	.53	.36	.27	.43
29	.44	.28	.45	.53	.40	3.18	4.97	.61	.52	.36		.42
30	.43	.28	.46	.50	.40	.40	.79	.61	.52	.35		.38
31		.28		.44	.38		.55		.52	.35		.34
Mean	1.30	1.30	1.57	1.41	1.48	2.33	5.79	2.11	1.59	1.41	1.30	1.27
Max.	1.44	1.50	2.01	1.63	1.61	3.40	7.13	4.24	1.87	1.52	1.34	1.43
Min.	1.25	1.24	1.25	1.32	1.38	1.39	3.53	1.61	1.51	1.35	1.27	1.24

WATER YEAR 1972 : Max. 7.13 m. Min. 1.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	2.40	0.60	3.90	3.00	2.80	70	84	10	6.80	1.80	0.60
2	0.70	1.60	0.50	2.80	3.00	4.20	71	77	10	6.00	1.80	0.60
3	0.50	1.20	0.80	2.20	2.80	18	72	69	9.60	5.40	1.80	0.70
4	0.50	1.00	1.20	1.60	2.80	27	75	64	9.20	5.40	1.60	0.70
5	0.60	1.00	1.80	1.40	4.80	27	83	60	8.40	5.10	1.60	0.70
6	0.70	0.90	7.60	3.00	8.40	22	102	49	8.00	4.80	1.60	0.70
7	0.70	0.80	21	11	8.40	18	127	39	7.60	4.20	1.60	0.60
8	0.60	0.80	22	11	7.20	17	146	33	7.20	4.20	1.60	0.50
9	0.60	0.70	18	8.00	6.80	21	156	26	6.80	3.90	1.40	0.50
10	0.60	0.60	15	6.80	6.80	44	158	21	6.80	3.90	1.20	0.50
11	0.50	0.70	14	4.80	6.00	61	162	21	6.40	3.60	1.20	0.50
12	0.60	0.70	12	3.00	7.20	63	166	20	6.40	3.30	1.00	0.50
13	0.70	0.60	11	2.40	10	63	172	20	7.20	3.30	1.00	0.40
14	1.00	0.40	15	2.00	10	62	176	20	7.60	3.00	1.00	0.40
15	1.80	0.40	17	1.80	8.40	60	180	20	8.80	3.00	0.90	0.40
16	1.80	0.40	24	2.00	6.40	46	182	20	12	2.80	0.90	0.40
17	1.80	0.50	28	1.60	5.10	37	183	18	17	2.60	0.90	0.40
18	1.80	0.60	22	1.40	4.20	31	182	16	21	2.60	0.90	0.40
19	1.80	0.40	14	1.40	4.20	30	180	16	20	2.60	0.90	0.40
20	1.40	0.60	8.00	1.60	5.40	29	175	20	16	2.40	0.90	0.40
21	1.20	5.40	6.00	2.00	7.60	29	168	20	14	2.40	0.90	0.40
22	1.20	6.00	7.20	2.60	8.00	33	160	19	12	2.40	0.90	0.60
23	1.20	3.90	6.00	3.00	6.80	46	150	18	11	2.40	0.90	0.50
24	1.40	2.60	3.60	2.80	5.40	60	139	17	9.60	2.40	0.80	0.50
25	1.00	1.80	2.60	2.40	4.50	61	130	16	8.80	2.40	0.80	0.50
26	0.90	1.20	2.40	2.20	3.90	60	121	14	8.00	2.40	0.80	0.50
27	0.90	0.90	2.80	1.80	3.00	60	114	12	7.60	2.20	0.80	1.00
28	1.40	0.80	2.80	4.80	2.80	62	109	11	7.20	2.40	0.70	3.90
29	4.20	0.80	4.50	7.20	3.00	65	103	10	6.80	2.20		3.60
30	3.90	0.80	4.80	6.00	3.00	67	98	10	6.80	2.00		2.60
31		0.80		4.20	2.60		91		6.80	2.00		1.80
Total	36.90	41.30	296.20	112.70	171.50	1,226	4,201	860	304.60	103.90	32.20	26.20
Mean	1.23	1.33	9.87	3.63	5.53	40.9	135	28.7	9.82	3.35	1.15	0.84
Max.	4.20	6.00	28	11	10	67	183	84	21	6.80	1.80	3.90
Min.	0.50	0.40	0.50	1.40	2.60	2.80	70	10	6.40	2.00	0.70	0.40
Runoff - mcm.	3.188	3.568	25.592	9.737	14.818	105.926	362.966	74.304	26.317	8.977	2.782	2.264

WATER YEAR 1972 : Max. 183 Min. 0.40 Mean 20.3 Annual Runoff 640.440 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.17	21.00	7.14	184				

CHI RIVER BASIN

Nam Phong at Nam Phong Weir, Khon Kaen (E22A)

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.

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: 3-5 time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on July – March. Recording on April – June.

Basis of Mean Daily Gage Height: Arithmetic mean of 3, 5 and 24 hourly readings.

Period of Available Gage Records: 1965-1970, 1971 to date.

Rating Operation:

Period of Rating: 1966-November 1976.
Rated by Float: –
Rated by Current Meter: 1966-November 1976.

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

Overbank Flow Conditions: No overbank flow.

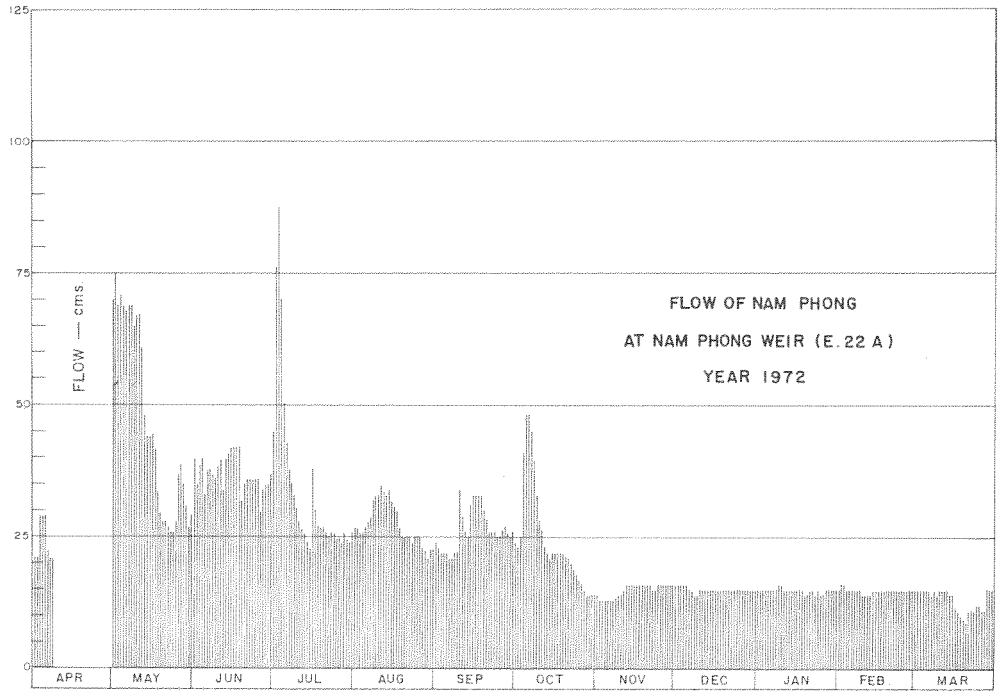
General Description: Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1972. Flow regulated by Ubonrat Dam at above gage site.

Remarks: No gage record on April 9-30, October 20-22, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	153.95	155.81	154.75	154.93	154.23	154.08	154.07	153.57	153.68	153.65	153.66	153.66
2	.95	.96	.56	156.01	.24	.05	.05	.56	.68	.66	.68	.66
3	154.29	.76	.66	.36	.19	.02	.12	.56	.68	.66	.68	.67
4	.32	.83	.74	155.82	.18	.00	.78	.55	.68	.66	.67	.67
5	.31	.77	.47	.12	.21	153.98	155.05	.55	.68	.66	.67	.67
6	153.98	155.70	154.67	154.83	154.25	153.96	155.03	153.55	153.67	153.67	153.66	153.66
7	.96	.76	.68	.68	.32	.96	154.95	.56	.67	.67	.65	.65
8	.96	.76	.62	.59	.42	154.00	.71	.56	.59	.67	.63	.66
9		.63	.61	.48	.48	.01	.47	.57	.57	.68	.63	.65
10		.53	.69	.38	.47	.53	.27	.61	.65	.68	.62	.66
11		155.53	154.74	154.28	154.55	154.30	154.17	153.66	153.65	153.67	153.61	153.66
12		.49	.51	.18	.52	.17	.04	.68	.66	.67	.61	.66
13		.05	.75	.13	.47	.12	153.98	.70	.66	.67	.62	.66
14		154.90	.79	.09	.50	.38	.97	.69	.67	.67	.63	.63
15		.89	.82	.06	.45	.49	.99	.70	.67	.67	.66	.58
16		154.95	154.84	154.66	154.40	154.46	153.99	153.71	153.67	153.67	153.65	153.46
17		.81	.83	.37	.36	.46	.98	.70	.67	.67	.63	.42
18		.52	.82	.23	.24	.47	.99	.69	.67	.63	.64	.37
19		.35	.45	.23	.15	.33	.98	.68	.67	.62	.63	.32
20		.28	.54	.24	.16	.25	–	.66	.63	.61	.63	.26
21		154.26	154.58	154.20	154.13	154.19	–	153.66	153.63	153.63	153.63	153.43
22		.21	.59	.16	.12	.18	–	.67	.66	.64	.63	.43
23		.19	.58	.18	.11	.17	153.86	.67	.66	.61	.64	.43
24		.19	.60	.17	.13	.15	.80	.68	.67	.63	.64	.46
25		.25	.58	.14	.14	.14	.75	.68	.66	.62	.64	.45
26		154.62	154.33	154.12	154.08	154.17	153.69	153.68	153.66	153.62	153.64	153.44
27		.73	.51	.09	.04	.21	.65	.69	.66	.63	.64	.45
28		.57	.57	.19	153.98	.18	.61	.68	.66	.65	.67	.65
29		.40	.56	.13	.97	.16	.60	.68	.66	.66	–	.66
30		.24	.64	.11	154.00	.17	.59	.68	.67	.65	–	.67
31	–	.30	–	.17	.06	–	.59	–	.67	.65	–	.67
Mean		154.97	154.64	154.49	154.27	154.19	–	153.64	153.66	153.65	153.64	153.56
Max.		155.96	154.84	156.36	154.55	154.53	155.05	153.69	153.68	153.68	153.68	153.67
Min.		154.19	154.33	154.06	153.97	153.96	153.59	153.55	153.57	153.61	153.61	153.26

WATER YEAR 1972 : Max. 156.36 m. Min. 153.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	70	40	45	27	24	23	14	16	15	15	15
2	21	75	35	76	27	23	23	13	16	15	16	15
3	29	69	38	87	26	22	25	13	16	15	16	15
4	29	71	40	70	26	22	41	13	16	15	15	15
5	29	69	33	50	27	22	48	13	16	15	15	15
6	22	68	38	42	28	21	48	13	15	15	15	15
7	21	69	38	38	29	21	45	13	15	15	15	14
8	21	69	37	36	32	22	39	13	14	15	15	15
9		65	36	33	33	22	33	14	14	16	15	14
10		62	38	31	33	34	28	14	15	16	14	15
11		62	40	28	35	29	26	15	15	15	14	15
12		61	34	26	34	26	23	16	15	15	14	15
13		48	40	25	33	25	22	16	15	15	14	15
14		44	41	24	34	31	21	16	15	15	15	14
15		44	42	23	32	33	22	16	15	15	15	14
16		45	42	38	31	33	22	16	15	15	15	12
17		42	42	30	30	33	22	16	15	15	15	11
18		34	42	27	27	33	22	16	15	15	15	10
19		30	32	27	25	30	22	16	15	14	15	9.52
20		28	35	27	25	28	* 21	16	15	14	15	8.56
21		28	36	26	25	26	* 21	16	15	15	15	11
22		27	36	25	25	26	* 20	15	15	15	15	11
23		26	36	26	24	26	19	15	15	14	15	11
24		26	36	26	25	25	18	16	15	15	15	12
25		28	36	25	25	25	17	16	15	14	15	12
26		37	30	25	24	26	16	16	15	14	15	11
27		39	34	24	23	27	15	16	15	15	15	11
28		35	35	26	22	26	14	16	15	15	15	15
29		31	35	25	21	25	14	16	15	15	–	15
30		27	37	24	22	26	14	16	15	15	–	15
31		29	–	26	23	–	14	–	15	15	–	15
Total		1,459	1,114	1,061	853	792	758	450	468	462	418	411
Mean		47.0	37.1	34.2	27.5	26.4	24.4	15.0	15.0	14.9	14.9	13.3
Max.		75	42	87	35	34	48	16	16	16	16	15
Min.		26	30	23	21	21	14	13	14	14	14	8.56
Runoff – mcm.		126.057	96.249	91.670	73.699	68.429	65.491	38.880	40.435	39.917	36.115	35.517

WATER YEAR 1972 : Max. 87 Min. 8.56 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.3,72	09.00	156.47	90				

CHI RIVER BASIN

Chi River at Highway Bridge, Chaiyaphum (E23)

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: 1968-1974
Rated by Float: -
Rated by Current Meter: 1968-1974

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

Overbank Flow Conditions: Overbank flow starts at elevation + 180.60 m. (M.S.L.) and is included.

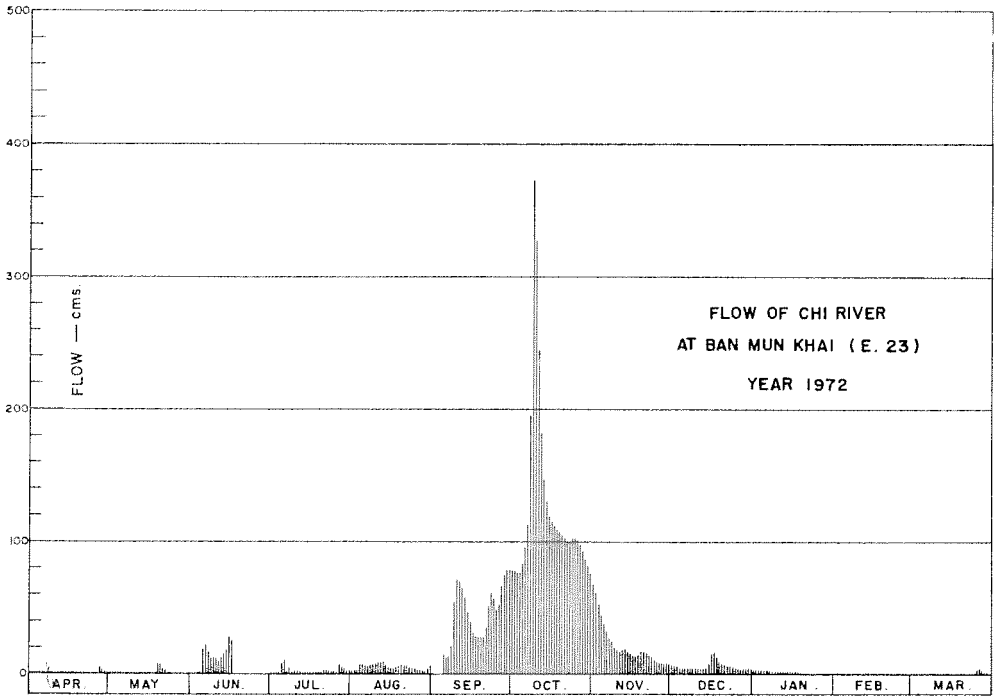
General Description: Records fair. Stage-discharge relation defined by 199 discharge measurements made in 1971. But overbank flow contained by using stage-discharge relationship which was determined from discharge measurements made in 1969.

Remarks: No gage height and discharge record on periods June 17-30, September 1-4.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	174.83	174.93	174.81	175.10	175.21		180.68	180.09	175.78	175.39	175.01	174.93
2	.87	.94	.83	.05	.24		.65	179.70	.69	.37	.02	.92
3	.84	.93	.93	.02	.38		.56	.22	.69	.35	.02	.93
4	.82	.92	175.10	.04	.66		.58	178.75	.65	.32	.04	.93
5	.79	.89	176.83	.93	.79	176.44	.83	.29	.62	.32	.03	.93
6	174.79	174.90	177.13	176.09	175.72	176.38	181.22	177.92	175.59	175.30	175.00	174.93
7	.80	.87	176.74	175.15	.64	.41	.57	.57	.57	.27	.01	.93
8	.84	.88	.30	.50	.75	177.01	.99	.28	.55	.26	.02	.95
9	.85	.89	.29	174.89	.72	179.38	182.19	.09	.55	.24	.01	.92
10	.84	.85	.29	175.22	.77	180.23	.15	176.92	.53	.23	174.99	.94
11	174.88	174.82	175.96	175.19	175.90	180.22	182.06	176.83	175.51	175.22	174.99	174.99
12	175.08	.79	176.32	.15	.99	179.99	181.96	.91	.49	.20	.98	.95
13	.09	.78	.54	.10	.93	.49	.86	.88	.52	.19	.97	.94
14	.03	.77	.77	.06	.69	178.90	.79	.83	.64	.18	.98	.80
15	.08	.75	177.58	.02	.52	.41	.70	.67	.97	.17	.97	.71
16	175.08	174.74	177.35	175.00	175.47	177.85	181.63	176.49	176.61	175.15	174.96	174.72
17	.01	.79		.00	.46	.57	.58	.44	.74	.14	175.01	.71
18	174.98	.83		.00	.50	.63	.53	.57	.42	.13	.06	.72
19	175.00	175.79		.00	.66	.57	.51	.79	.11	.12	.07	.72
20	.01	.76		.00	.82	.59	.47	.77	175.90	.12	.07	.72
21	174.97	175.38		175.32	175.73	178.12	181.41	176.69	175.78	175.12	175.01	174.72
22	.92	.14		.24	.63	179.13	.34	.58	.72	.11	174.92	.72
23	.90	174.99		.16	.60	.74	.33	.42	.67	.11	.91	.72
24	.92	.93		.14	.57	.54	.42	.30	.64	.09	.97	.72
25	.96	.90		.15	.54	.02	.41	.12	.58	.09	175.06	.73
26	175.01	174.90		175.12	175.39	179.23	181.36	176.03	175.54	175.07	175.07	175.28
27	.62	.86		.78	.26	180.08	.28	175.98	.50	.06	174.95	.46
28	.33	.84		.61	.24	.45	.16	.96	.48	.04	.92	.23
29	.10	.82		.40	.21	.65	180.98	.92	.46	.04		.01
30	174.98	.81		.27	.30	.68	.72	.88	.43	.04		174.97
31		.80		.25	.72		.42		.42	.02		.95
Mean	174.97	174.94		175.22	175.58		181.36	177.06	175.72	175.18	175.00	174.90
Max.	175.62	175.79		176.09	175.99		182.19	180.09	176.74	175.39	175.07	175.46
Min.	174.79	174.74		174.89	175.21		180.42	175.88	175.42	175.02	174.91	174.71

WATER YEAR 1972 : Max. 182.19 m. Min. 174.71 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.45	0.95	0.35	1.80	2.57		79 *	68	7.12	3.83	1.35	0.95
2	0.65	1.00	0.45	1.55	2.78		79 *	61	6.31	3.69	1.40	0.90
3	0.50	0.95	0.95	1.40	3.76		77	53	6.31	3.55	1.40	0.95
4	0.40	0.90	1.80	1.50	6.04		77	45	5.95	3.34	1.50	0.95
5	0.27	0.75	18	8.50	7.21	14	83 *	38	5.68	3.34	1.45	0.95
6	0.27	0.80	22	10	6.58	13	96 *	33	5.42	3.20	1.30	0.95
7	0.30	0.65	17	2.15	5.86	13	111 *	28	5.26	2.99	1.35	0.95
8	0.50	0.70	12	4.70	6.85	21	195 *	24	5.10	2.92	1.40	1.05
9	0.50	0.75	12	0.75	6.58	55	372 *	21	5.10	2.78	1.35	0.90
10	0.50	0.55	12	2.65	7.03	71	327 *	19	4.94	2.71	1.25	1.00
11	0.70	0.40	8.80	2.43	8.20	70	243 *	18	4.78	2.64	1.25	1.25
12	1.70	0.27	12	2.15	9.10	66	182 *	19	4.62	2.50	1.20	1.05
13	1.75	0.24	15	1.80	8.50	57	147 *	19	4.86	2.43	1.15	1.00
14	1.45	0.21	18	1.60	6.31	47	130 *	18	5.86	2.36	1.20	0.30
15	1.70	0.15	28	1.40	4.86	40	120 *	16	8.90	2.29	1.15	0.030
16	1.70	0.12	25	1.30	4.46	32	115 *	14	16	2.15	1.10	0.060
17	1.35	0.27		1.30	4.38	28	112 *	14	17	2.08	1.35	0.030
18	1.20	0.45		1.30	4.70	29	109 *	15	14	2.01	1.60	0.060
19	1.30	7.21		1.30	6.04	28	108 *	18	10	1.94	1.65	0.060
20	1.35	6.94		1.30	7.48	28	105 *	18	8.20	1.94	1.65	0.060
21	1.15	3.76		3.34	6.67	35	103 *	17	7.12	1.94	1.35	0.060
22	0.90	2.08		2.78	5.77	51	100 *	15	6.58	1.87	0.90	0.060
23	0.80	1.25		2.22	5.50	62	100 *	14	6.13	1.87	0.85	0.060
24	0.90	0.95		2.08	5.26	58	103 *	12	5.86	1.75	1.15	0.060
25	1.10	0.80		2.15	5.02	49	103 *	10	5.34	1.75	1.60	0.090
26	1.35	0.80		1.94	3.83	53	101 *	9.50	5.02	1.65	1.65	3.06
27	5.68	0.60		7.12	2.92	68	98 *	9.00	4.70	1.60	1.05	4.38
28	3.41	0.50		5.59	2.78	75	94 *	8.80	4.54	1.50	0.90	2.71
29	1.80	0.40		3.90	2.57	79 *	88 *	8.40	4.38	1.50		1.35
30	1.20	0.35		2.99	3.20	79 *	81 *	8.02	4.14	1.50		1.15
31		0.30		2.85	6.58		74		4.06	1.40		1.05
Total	36.88	36.05		87.83	169.39		3,912	670.72	209.28	73.02	36.50	27.48
Mean	1.23	1.16	x 12.7	2.83	5.46	x 47.0	126	22.3	6.75	2.35	1.30	0.89
Max.	5.68	7.21		10	9.10	79	372	68	17	3.83	1.65	4.38
Min.	0.27	0.12		0.75	2.57	13	74	8.02	4.06	1.40	0.85	0.030
Runoff - mcm.	3.186	3.115	x 32.918	7.588	14.635	x121.824	337.997	57.950	18.082	6.309	3.154	2.374

WATER YEAR 1972 : Max. 372 Min. 0.030 Mean 19.3 Annual Runoff 609.132 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.9	12.00	182.20	383				

CHI RIVER BASIN

Nam Phan at Um Mao (Ban Hua Khua), Kalasin (E26)

Location: Lat. 16°-24'-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: Stable, no shifting adjustment for flow computation.

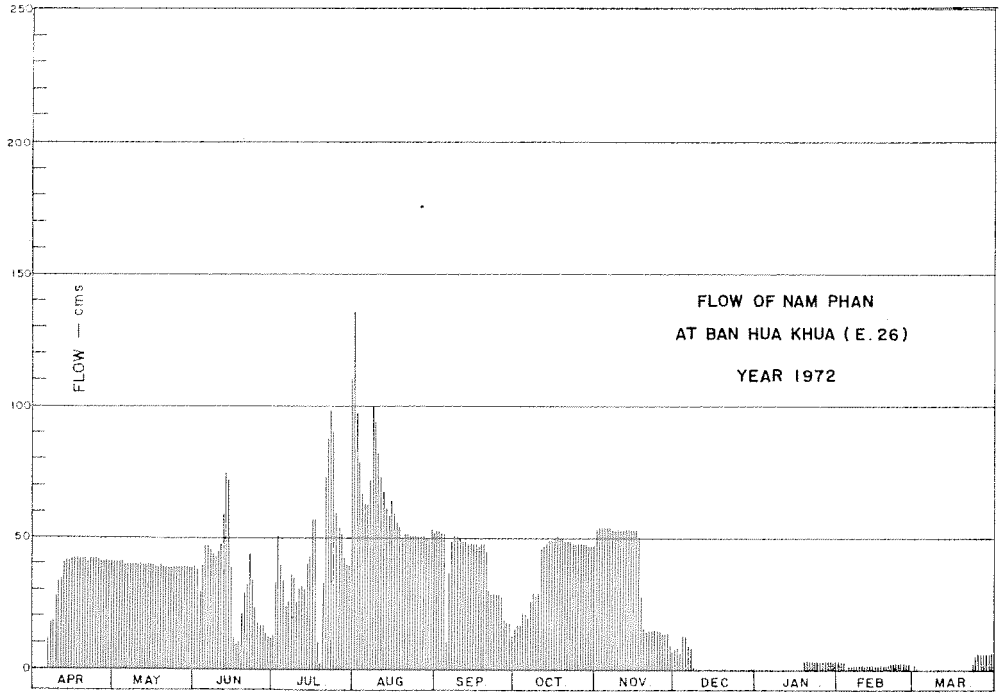
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 19 discharge measurements made in 1972. Flow regulated by Lam Pao Dam.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.85	136.55	136.48	135.66	138.53	136.84	135.77	136.86	135.46	134.63	135.14	135.11
2	.83	.54	.45	136.33	137.82	.84	.79	.87	.46	.63	.14	134.95
3	.83	.54	.21	.81	.44	.82	.81	.87	.37	.62	.14	.72
4	.86	.54	.45	.53	.14	.81	.92	.87	.66	.62	134.85	.64
5	.84	.53	.69	.25	.08	135.55	.92	.87	.66	.62	.99	.62
6	135.59	136.53	136.69	136.03	137.09	136.42	135.89	136.87	135.50	134.62	135.03	134.60
7	.82	.53	.68	.09	.30	.76	136.10	.86	.47	.62	.03	.59
8	.84	.52	.62	.40	.86	.81	.19	.86	.00	.61	.03	.59
9	136.18	.52	.59	.37	.75	.79	.16	.86	134.83	.61	.04	.59
10	.33	.52	.64	.10	.48	.77	.21	.86	.70	.61	.04	.58
11	136.35	136.52	136.73	136.27	137.31	136.75	136.67	136.86	134.75	134.61	135.04	134.57
12	.51	.52	137.00	.28	.15	.74	.71	.86	.74	.61	.04	.57
13	.54	.53	.34	.22	.05	.73	.73	.85	.72	.61	.04	.57
14	.55	.52	.28	.48	.01	.73	.74	.85	.71	.61	.04	.57
15	.56	.51	136.45	.59	.11	.73	.75	.85	.70	.61	.03	.57
16	136.56	136.51	135.61	136.95	137.01	136.72	136.78	136.84	134.70	134.60	135.04	134.57
17	.57	.50	.26	.95	136.93	.71	.79	.81	.69	.60	.04	.57
18	.56	.50	.57	135.55	.87	.72	.78	.16	.69	.91	.04	.58
19	.56	.52	.95	.10	.79	.72	.77	135.78	.69	135.15	.04	.57
20	.56	.49	136.21	136.32	.83	.66	.76	.74	.68	.15	.04	.56
21	136.54	136.49	136.25	137.32	136.83	136.24	136.76	135.73	134.68	135.15	135.11	134.56
22	.56	.49	.62	.63	.81	.19	.74	.72	.68	.14	.12	.70
23	.57	.49	.35	.83	.80	.19	.73	.71	.67	.15	.12	135.12
24	.57	.49	.03	.66	.80	.21	.73	.71	.67	.14	.12	.28
25	.56	.49	135.84	.01	.81	.21	.72	.71	.66	.14	.12	.34
26	136.55	136.49	135.81	136.88	136.81	136.16	136.72	135.70	134.65	135.14	135.12	135.34
27	.55	.49	.80	.82	.80	135.86	.72	.69	.65	.14	.12	.34
28	.55	.49	.70	.60	.78	.82	.72	.69	.65	.14	.12	.34
29	.55	.49	.64	.52	.78	.82	.71	.50	.64	.14	-	.34
30	.55	.47	.61	.51	.84	.63	.71	.38	.64	.14	-	.35
31	-	.48	-	138.07	.83	-	.71	-	.64	.14	-	.07
Mean	136.16	136.51	136.28	136.58	137.11	136.46	136.49	136.36	134.88	134.84	135.06	134.82
Max.	136.57	136.55	137.34	138.07	138.53	136.84	136.79	136.87	135.66	135.15	135.14	135.35
Min.	134.83	136.47	135.26	135.10	136.78	135.55	135.77	135.38	134.64	134.60	134.85	134.56

WATER YEAR 1972 : Max. 138.53 m. Min. 134.56 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.15	41	39	13	136	53	16	53	8.70	0.00	3.10	2.65
2	0.090	41	38	53	98	53	17	54	8.70	0.00	3.10	0.80
3	0.090	41	29	51	79	52	17	54	6.90	0.00	3.10	0.00
4	0.18	41	38	40	65	51	21	54	13	0.00	0.15	0.00
5	0.12	40	47	31	63	11	21	54	13	0.00	1.20	0.00
6	12	40	47	24	63	37	20	54	9.50	0.00	1.66	0.00
7	18	40	46	26	72	49	26	53	8.90	0.00	1.66	0.00
8	18	40	44	36	100	51	29	53	1.30	0.00	1.66	0.00
9	28	40	43	35	94	51	28	53	0.090	0.00	1.78	0.00
10	33	40	45	26	81	50	29	53	0.00	0.00	1.78	0.00
11	34	40	48	31	73	49	46	53	0.00	0.00	1.78	0.00
12	40	40	59	32	66	49	47	53	0.00	0.00	1.78	0.00
13	41	40	74	30	61	48	48	53	0.00	0.00	1.78	0.00
14	41	40	72	39	59	48	49	53	0.00	0.00	1.78	0.00
15	42	40	38	43	64	48	49	53	0.00	0.00	1.66	0.00
16	42	40	12	57	59	48	50	53	0.00	0.00	1.78	0.00
17	42	39	4.90	57	56	47	51	51	0.00	0.00	1.78	0.00
18	42	39	11	11	54	48	50	28	0.00	0.40	1.78	0.00
19	42	40	21	2.50	51	48	50	16	0.00	3.25	1.78	0.00
20	42	39	29	33	52	45	49	15	0.00	3.25	1.78	0.00
21	41	39	31	73	52	30	49	15	0.00	3.25	2.65	0.00
22	42	39	44	88	51	29	49	15	0.00	3.10	2.80	0.00
23	42	39	34	98	51	29	48	15	0.00	3.25	2.80	2.80
24	42	39	24	90	51	29	48	15	0.00	3.10	2.80	5.20
25	42	39	18	59	51	29	48	15	0.00	3.10	2.80	6.30
26	41	39	17	54	51	28	48	14	0.00	3.10	2.80	6.30
27	41	39	17	52	51	19	48	14	0.00	3.10	2.80	6.30
28	41	39	14	43	50	18	48	14	0.00	3.10	2.80	6.30
29	41	39	13	40	50	18	47	9.50	0.00	3.10	–	6.30
30	41	38	12	40	53	13	47	7.10	0.00	3.10	–	6.50
31	–	39	–	111	52	–	47	–	0.00	3.10	–	2.14
Total	131.63	1,229	1,008.90	1,398.50	2,009	1,178	1,240	1,096.60	70.09	41.30	59.12	51.59
Mean	31.0	39.6	33.6	45.1	64.8	39.3	40.0	36.5	2.26	1.33	2.11	1.66
Max.	42	41	74	111	136	53	51	54	13	3.25	3.10	6.50
Min.	0.090	38	4.90	2.50	50	11	16	7.10	0.00	0.00	0.15	0.00
Runoff – mcm.	80.493	106.186	87.169	120.830	173.578	101.779	107.136	94.746	6.056	3.568	5.108	4.457

WATER YEAR 1972 : Max. 136 Min. 0.00 Mean 28.2 Annual Runoff 891.106 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.31	18.00	138.83	153				

CHI RIVER BASIN

Chi River at Below Ban Nong O about 600 m, Chaiyaphum (E32A)

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 Sombon, 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. E32

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: 1967 to date
Rated by Float: -
Rated by Current Meter: 1967 to date

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

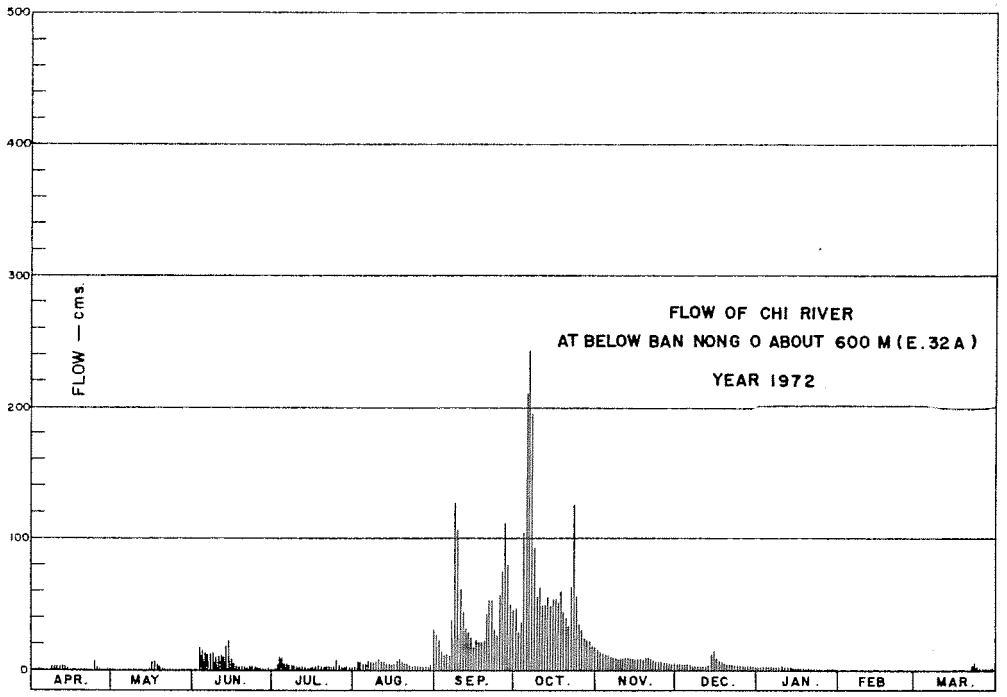
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 278 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.54	198.58	198.49	198.64	198.78	199.89	200.35	199.38	198.88	198.75	198.59	198.49
2	.55	.57	.50	.64	.95	.69	199.98	.33	.86	.74	.59	.49
3	.61	.55	199.47	199.18	.97	.30	200.29	.27	.85	.73	.58	.49
4	.59	.56	.37	.17	.90	.20	202.89	.24	.84	.73	.58	.49
5	.58	.61	.27	198.94	.87	.29	206.14	.20	.83	.73	.58	.49
6	198.59	198.56	199.22	198.87	199.03	199.22	207.02	199.17	198.83	198.72	198.58	198.48
7	.58	.54	.22	.85	198.95	200.39	205.69	.15	.82	.72	.58	.48
8	.71	.54	.30	.80	.95	203.68	202.52	.13	.81	.71	.58	.47
9	.75	.52	.06	.77	.99	202.99	201.16	.12	.80	.70	.57	.47
10	.72	.50	.21	.75	199.12	201.40	.47	.14	.79	.70	.56	.48
11	198.69	198.50	199.22	198.73	199.04	200.65	200.85	199.18	198.78	198.70	198.56	198.48
12	.73	.50	.18	.72	198.95	.14	.92	.18	.80	.69	.55	.48
13	.70	.50	.47	.71	.89	199.98	201.15	.14	.85	.69	.54	.46
14	.66	.47	.68	.68	.86	.75	200.92	.08	199.25	.68	.54	.46
15	.64	.50	.10	.67	.83	.48	201.08	.06	.36	.67	.53	.46
16	198.65	198.96	198.89	198.75	198.90	199.70	201.09	199.06	199.16	198.67	198.52	198.46
17	.65	199.04	.81	.75	199.03	.59	.01	.06	.02	.66	.52	.46
18	.62	198.84	.76	.80	.06	.63	.38	.06	198.95	.66	.52	.45
19	.60	.73	.74	.80	198.98	.65	200.64	.12	.92	.65	.51	.46
20	.59	.68	.71	.76	.91	200.55	.38	.15	.89	.64	.54	.45
21	198.58	198.64	198.68	198.77	198.88	20.107	200.20	199.07	198.87	198.64	198.53	198.47
22	.57	.64	.72	.73	.83	.08	201.84	.04	.85	.64	.53	.81
23	.57	.65	.81	.71	.80	200.08	203.59	.02	.84	.63	.54	.93
24	199.03	.62	.74	.80	.78	199.81	201.19	.00	.83	.63	.54	.68
25	198.82	.56	.71	199.07	.77	201.20	200.27	198.98	.81	.62	.52	.61
26	198.67	198.52	198.67	198.86	198.77	201.79	199.91	198.96	198.80	198.61	198.51	198.65
27	.62	.52	.65	.75	.76	203.11	.76	.94	.80	.60	.51	.59
28	.59	.49	.68	.71	.75	202.08	.73	.94	.78	.60	.50	.55
29	.60	.49	.65	.71	.75	200.92	.63	.92	.77	.60	-	.53
30	.59	.49	.65	.70	.85	.62	.53	.30	.76	.59	-	.53
31	-	-	-	.72	200.09	-	.44	-	.76	.59	-	.52
Mean	198.65	198.59	198.95	198.79	198.93	200.53	201.35	199.08	198.88	198.67	198.55	198.53
Max.	199.03	199.04	199.68	199.18	200.09	203.68	207.02	199.38	199.36	198.75	198.59	198.93
Min.	198.54	198.47	198.49	198.64	198.75	199.20	199.44	198.30	198.76	198.59	198.50	198.45

WATER YEAR 1972 : Max. 207.02 m. Min. 198.45 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.64	0.88	0.38	1.48	3.24	27	37	15	4.86	2.85	0.94	0.38
2	0.70	0.82	0.40	1.48	6.05	23	29	14	4.52	2.72	0.94	0.38
3	1.12	0.70	18	10	6.39	13	36	13	4.35	2.59	0.88	0.38
4	0.94	0.76	15	10	5.20	11	104	12	4.18	2.59	0.88	0.38
5	0.88	1.12	13	5.88	4.69	13	211	11	4.01	2.59	0.88	0.38
6	0.94	0.76	12	4.69	7.50	11	242	10	4.01	2.46	0.88	0.37
7	0.88	0.64	12	4.35	6.05	38	195	9.95	3.84	2.46	0.88	0.37
8	2.33	0.64	13	3.50	6.05	128	93	9.53	3.67	2.33	0.88	0.35
9	2.85	0.52	8.10	3.11	6.73	107	56	9.32	3.50	2.20	0.82	0.35
10	2.46	0.40	11	2.85	9.32	61	63	9.74	3.37	2.20	0.76	0.37
11	2.08	0.40	11	2.59	7.70	44	48	10	3.24	2.20	0.76	0.37
12	2.59	0.40	10	2.46	6.05	32	50	10	3.50	2.08	0.70	0.37
13	2.20	0.40	18	2.33	5.03	29	55	9.74	4.35	2.08	0.64	0.34
14	1.72	0.35	23	1.96	4.52	24	50	8.50	12	1.96	0.64	0.34
15	1.48	0.40	8.90	1.84	4.01	18	54	8.10	15	1.84	0.58	0.34
16	1.60	6.22	5.03	2.85	5.20	23	54	8.10	10	1.84	0.52	0.34
17	1.60	7.70	3.67	2.85	7.50	21	52	8.10	7.30	1.72	0.52	0.34
18	1.24	4.18	2.98	3.50	8.10	22	61	8.10	6.05	1.72	0.52	0.32
19	1.00	2.59	2.72	3.50	6.56	22	44	9.32	5.54	1.60	0.46	0.34
20	0.94	1.96	2.33	2.98	5.37	41	38	9.95	5.03	1.48	0.64	0.32
21	0.88	1.48	1.96	3.11	4.86	53	34	8.30	4.69	1.48	0.58	0.35
22	0.82	1.48	2.46	2.59	4.01	54	73	7.70	4.35	1.48	0.58	3.67
23	0.82	1.60	3.67	2.33	3.50	31	125	7.30	4.18	1.36	0.64	5.71
24	7.50	1.24	2.72	3.50	3.24	26	56	6.90	4.01	1.36	0.64	1.96
25	3.84	0.76	2.33	8.30	3.11	57	35	6.56	3.67	1.24	0.52	1.12
26	1.84	0.52	1.84	4.52	3.11	71	28	6.22	3.50	1.12	0.46	1.60
27	1.24	0.52	1.60	2.85	2.98	111	25	5.88	3.50	1.00	0.46	0.94
28	0.94	0.38	1.96	2.33	2.85	80	24	5.88	3.24	1.00	0.40	0.70
29	1.00	0.38	1.60	2.33	2.85	50	22	5.54	3.11	1.00	–	0.58
30	0.94	0.38	1.60	2.20	4.35	43	20	5.20	2.98	0.94	–	0.58
31	–	0.38	–	2.46	31	–	17	–	2.98	0.94	–	0.52
Total	50.01	40.96	212.52	110.72	187.12	1,284	2,031	268.93	152.53	56.43	19.00	24.86
Mean	1.67	1.32	7.08	3.57	6.04	42.8	65.5	8.96	4.92	1.82	0.68	0.80
Max.	7.50	7.70	23	10	31	128	242	15	15	2.85	0.94	5.71
Min.	0.64	0.35	0.38	1.48	2.85	11	17	5.20	2.98	0.94	0.40	0.32
Runoff - mcm.	4.321	3.539	18.362	9.566	16.167	110.938	175.478	23.235	13.178	4.876	1.642	2.148

WATER YEAR 1972 : Max. 242 Min. 0.32 Mean 12.1 Annual Runoff 383.450 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	18.00	207.10	244				

CHI RIVER BASIN

Nam Yang at Ban Nong Saeng Thung, Roi Et. (E33A)

Location: Lat. 16°-20'-01" N., Long. 104°-01'-18" E., on left bank about 1 kilometer south-east of Ban Nong Saeng Thung, and 150 meters downstream from confluence with Nong Saeng, Amphoe Phon Thong, Roi Et.

Drainage Area: 2,599 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 133.97 m. (M.S.L.)

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

Location: infront of E33A station office.
Elevation: + 143.700 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1961 to date

Rating Operation:

Period of Rating: 1961-1968
Rated by Float: -
Rated by Current Meter: 1961-1968

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

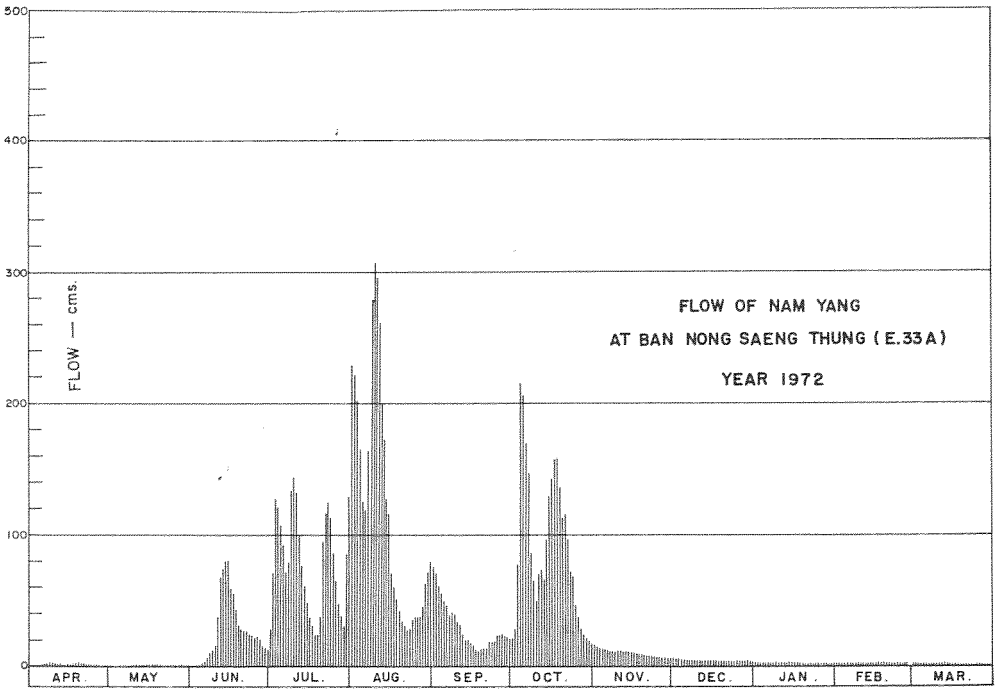
Overbank Flow Conditions: Overbank flow starts at elevation + 141.45 m. (M.S.L.) and is included.

General Description: Records fair. Stage-discharge relation defined by 1,593 discharge measurements made during 1961-1968.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.67	134.68	134.72	136.23	141.44	137.94	136.01	135.84	135.21	135.02	134.88	134.85
2	.66	.65	.72	137.74	141.38	.78	.31	.77	.21	.02	.91	.86
3	.65	.65	.68	139.35	.04	.53	137.95	.75	.20	.02	.89	.86
4	.65	.62	.82	.15	140.26	.32	141.25	.72	.18	.02	.90	.85
5	.79	.61	.84	138.79	139.32	.12	.12	.68	.17	134.99	.90	.85
6	134.83	134.62	134.85	138.21	139.11	136.99	140.64	135.66	135.17	134.98	134.90	134.86
7	.85	.64	135.21	137.80	140.23	.78	139.77	.61	.17	.98	.91	.86
8	.99	.60	.48	138.03	141.59	.76	138.30	.59	.16	.99	.92	.85
9	.93	.60	136.06	139.50	142.22	.77	137.49	.57	.16	.96	.90	.84
10	.91	.71	.30	.75	.49	.65	137.11	.57	.15	.94	.89	.84
11	134.83	134.69	136.70	139.41	142.38	136.47	137.75	135.62	135.11	135.01	134.89	134.84
12	.77	.67	137.66	138.60	141.89	.22	.87	.61	.10	134.97	.90	.85
13	.70	.65	.85	137.95	140.95	.04	.68	.58	.16	.96	.89	.83
14	.82	.65	138.03	.46	139.40	.01	138.48	.55	.16	.95	.89	.84
15	.77	.62	.05	.07	138.33	135.92	139.37	.53	.12	.93	.89	.83
16	134.81	134.68	137.75	136.71	137.80	135.82	139.69	135.52	135.12	134.97	134.94	134.82
17	.84	.70	.31	.43	.45	.65	140.09	.47	.12	.97	.92	.82
18	.88	.67	136.89	.14	.18	.60	.09	.44	.10	.95	.89	.82
19	.98	.64	.49	.18	136.81	.63	139.52	.41	.09	.92	.90	.82
20	.91	.67	.32	137.67	.58	.62	.01	.39	.08	.93	.91	.81
21	134.85	134.65	136.26	138.44	136.49	135.69	139.03	135.40	135.08	134.92	134.88	134.80
22	.82	.67	.28	139.03	.36	.88	138.50	.36	.08	.92	.86	.79
23	.79	.66	.22	.27	.35	.90	137.84	.33	.08	.92	.87	.81
24	.77	.64	.15	138.95	.62	.89	.37	.31	.07	.92	.86	.80
25	.79	.60	.06	.20	.69	136.18	136.99	.31	.06	.92	.86	.83
26	134.77	134.61	136.12	137.60	136.71	136.17	136.67	135.28	135.05	134.91	134.86	134.84
27	.73	.63	.02	.02	.66	.19	.37	.27	.04	.94	.86	.83
28	.69	.71	135.81	136.74	.97	.15	.17	.26	.05	.94	.85	.82
29	.63	.64	.74	.44	137.54	.11	.05	.24	.05	.92	-	.80
30	.68	.65	.65	.29	.79	.01	135.97	.23	.04	.90	-	.81
31	-	.66	-	139.34	138.03	-	.90	-	.03	.89	-	.85
Mean	134.79	134.64	136.16	137.91	138.84	136.35	138.14	135.49	135.11	134.95	134.89	134.83
Max.	134.99	134.71	138.05	139.75	142.48	137.94	141.25	135.84	135.21	135.02	134.94	134.86
Min.	134.63	134.60	134.68	136.23	136.35	135.60	135.90	135.23	135.03	134.89	134.85	134.79

WATER YEAR 1972 : Max. 142.49 m. Min. 134.60 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.02	1.08	1.32	26	226	77	21	17	6.16	3.84	2.28	2.10
2	0.96	0.90	1.32	70	222	71	28	15	6.16	3.84	2.52	2.16
3	0.90	0.90	1.08	128	203	63	77	15	6.00	3.84	2.34	2.16
4	0.90	0.72	1.92	121	164	57	215	14	5.76	3.84	2.40	2.10
5	1.74	0.66	2.04	108	127	51	207	14	5.64	3.48	2.40	2.10
6	1.98	0.72	2.10	87	119	47	183	13	5.64	3.36	2.40	2.16
7	2.10	0.84	6.16	72	163	40	145	12	5.64	3.36	2.52	2.16
8	3.48	0.60	10	80	235	40	90	12	5.52	3.48	2.64	2.10
9	2.76	0.60	22	134	279 *	40	62	12	5.52	3.12	2.40	2.04
10	2.52	1.26	27	144	307 *	36	50	12	5.40	2.88	2.34	2.04
11	1.98	1.14	38	130	295 *	32	70	13	4.92	3.72	2.34	2.04
12	1.62	1.02	67	101	254	25	74	12	4.80	3.24	2.40	2.10
13	1.20	0.90	74	77	197	21	67	12	5.52	3.12	2.34	1.98
14	1.92	0.90	80	61	130	21	96	12	5.52	3.00	2.34	2.04
15	1.62	0.72	81	49	91	19	129	11	5.04	2.76	2.34	1.98
16	1.86	1.08	70	38	72	17	142	11	5.04	3.24	2.88	1.92
17	2.04	1.20	56	30	60	13	158	10	5.04	3.24	2.64	1.92
18	2.28	1.02	44	24	52	12	158	10	4.80	3.00	2.34	1.92
19	3.36	0.84	32	24	41	13	135	9.36	4.68	2.64	2.40	1.92
20	2.52	1.02	28	67	34	13	115	9.04	4.56	2.76	2.52	1.86
21	2.10	0.90	26	95	32	14	116	9.20	4.56	2.64	2.28	1.80
22	1.92	1.02	27	116	29	18	97	8.56	4.56	2.64	2.16	1.74
23	1.74	0.96	25	125	29	18	73	8.08	4.56	2.64	2.22	1.86
24	1.62	0.84	24	113	36	18	58	7.76	4.44	2.64	2.16	1.80
25	1.74	0.60	22	86	38	24	47	7.76	4.32	2.64	2.16	1.98
26	1.62	0.66	23	65	38	24	37	7.28	4.20	2.52	2.16	2.04
27	1.38	0.78	27	48	37	25	29	7.12	4.08	2.88	2.16	1.98
28	1.14	1.26	16	39	46	24	24	6.96	4.20	2.88	2.10	1.92
29	0.78	0.84	15	31	63	23	22	6.64	4.20	2.64	–	1.80
30	1.08	0.90	13	27	72	21	20	6.48	4.08	2.40	–	1.86
31	–	0.96	–	127	80	–	18	–	3.96	2.34	–	2.10
Total	53.88	27.84	856.94	2,443	3,771	917	2,763	321.24	154.52	94.62	66.18	61.68
Mean	1.79	0.90	28.6	78.8	121	30.6	89.1	10.7	4.98	3.05	2.36	1.98
Max.	3.48	1.26	81	144	307	77	215	17	6.16	3.84	2.88	2.16
Min.	0.78	0.60	1.08	26	29	12	18	6.48	3.96	2.34	2.10	1.74
Runoff – mcm.	4.655	2.405	74.040	211.075	325.814	79.229	238.723	27.755	13.350	8.175	5.718	5.329

WATER YEAR 1972 : Max. 307 Min. 0.60 Mean 31.6 Annual Runoff 996.270 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 10	14.00	142.52	311				

CHI RIVER BASIN

Lam Pao at Ban Nong Song Hong, Kalasin (E34)

Location: Lat. 16°-35'-52" N., Long. 103°-27'-15" E., on right bank 1 kilometer downstream from Lam Pao Damsite, 2.5 kilometers upstream from the confluence with Huai Yang, Amphoe Muang, Kalasin.

Drainage Area: 5,542 Sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 138.00 m. (M.S.L.)

Bench Mark: B.M. - R.I.D. No. 9

Location: on right bank infront of the camp of station E34
Elevation: + 150.216 m. (M.S.L.)

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

Basis of MeanDaily Gage Height: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1962 to date.

Rating Operation:

Period of Rating: 1963-1973
Rated by Float: -
Rated by Current Meter: 1963-1973

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

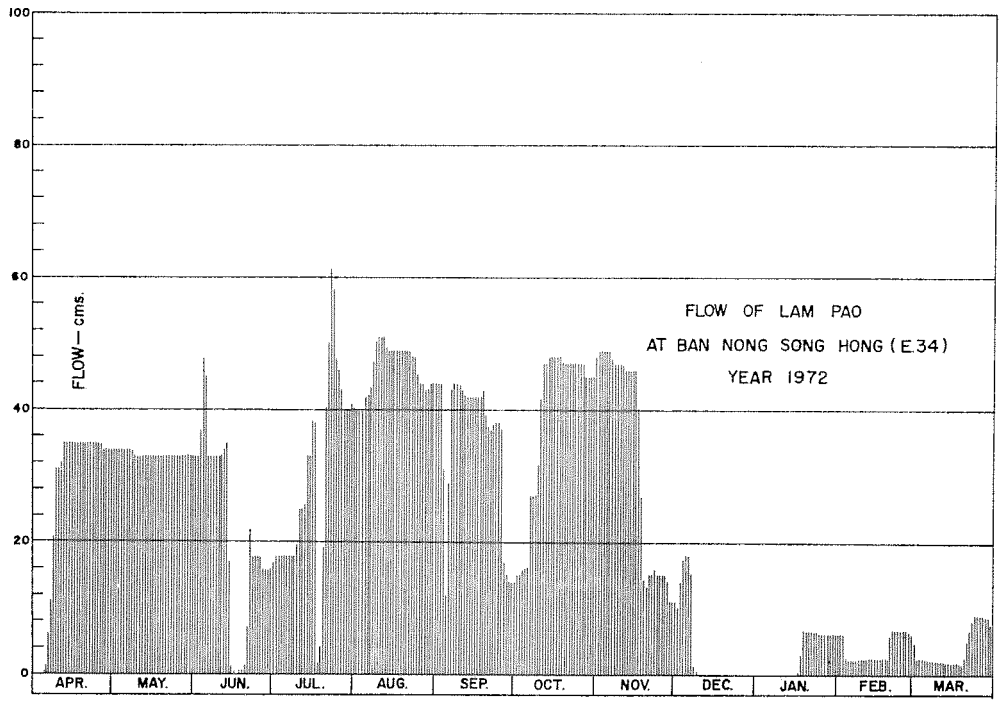
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 14 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	139.10	140.43	140.39	139.86	140.60	140.70	139.75	140.85	139.64	139.07	139.44	139.42
2	.10	.42	.39	.90	.60	.70	.80	.85	.59	.07	.44	.25
3	.10	.42	.51	.90	.60	.70	.81	.85	.78	.07	.44	.25
4	.10	.42	.82	.89	.60	.36	.85	.84	.90	.07	.25	.25
5	.17	.42	.80	.89	.65	139.70	.84	.85	.90	.06	.25	.25
6	139.47	140.42	140.40	139.89	140.66	140.62	139.84	140.84	139.90	139.06	139.25	139.25
7	.69	.42	.40	.90	.71	.70	140.20	.79	.85	.06	.24	.24
8	140.03	.42	.40	.90	.79	.70	.20	.79	.19	.06	.24	.24
9	.34	.41	.40	.91	.90	.70	.21	.79	.14	.06	.24	.24
10	.34	.41	.40	.97	.90	.70	.35	.79	.10	.06	.25	.23
11	140.36	140.40	140.40	140.15	140.90	140.69	140.80	140.79	139.10	139.06	139.25	139.23
12	.45	.40	.43	.15	.89	.67	.80	.78	.10	.06	.25	.23
13	.45	.40	.45	.18	.85	.66	.80	.78	.09	.06	.25	.23
14	.45	.40	.19	.39	.85	.66	.82	.78	.08	.06	.25	.22
15	.45	.40	139.19	.41	.85	.66	.81	.77	.08	.06	.25	.22
16	140.45	140.40	139.14	140.60	140.85	140.66	140.81	140.76	139.08	139.06	139.25	139.22
17	.45	.40	.11	.50	.85	.66	.81	.61	.08	.11	.25	.22
18	.45	.40	.15	139.19	.85	.67	.81	.10	.08	.34	.25	.22
19	.45	.40	.15	.22	.85	.68	.80	139.74	.08	.46	.25	.21
20	.45	.40	.17	140.02	.85	.56	.80	.71	.08	.46	.25	.21
21	140.45	140.40	139.32	140.64	140.85	140.20	140.80	139.80	139.08	139.46	139.45	139.26
22	.45	.40	140.04	.88	.85	.21	.80	.81	.08	.45	.46	.41
23	.45	.40	139.90	141.15	.83	.25	.80	.82	.08	.45	.46	.47
24	.45	.40	.90	.08	.81	.25	.80	.80	.08	.45	.46	.55
25	.45	.40	.90	140.80	.70	.25	.80	.80	.08	.44	.46	.56
26	140.45	140.40	139.89	140.76	140.70	140.22	140.80	139.80	139.07	139.44	139.46	139.56
27	.44	.40	.85	.58	.70	139.88	.79	.80	.07	.44	.46	.56
28	.43	.40	.85	.60	.69	.79	.75	.77	.07	.44	.45	.55
29	.43	.40	.85	.60	.69	.78	.75	.65	.07	.44	-	.55
30	.43	.40	.85	.61	.70	.75	.74	.64	.07	.44	-	.52
31	-	.40	-	.64	.70	-	.75	-	.07	.44	-	.29
Mean	140.14	140.41	139.99	140.27	140.77	140.42	140.53	140.36	139.25	139.23	139.33	139.33
Max.	140.45	140.43	140.82	141.15	140.90	140.70	140.82	140.85	139.90	139.46	139.46	139.56
Min.	139.10	140.40	139.11	139.19	140.60	139.70	139.75	139.64	139.07	139.06	139.24	139.21

WATER YEAR 1972 : Max. 141.15 m. Min. 139.06 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	34	33	17	40	44	14	49	11	0.00	6.28	5.84
2	0.00	34	33	18	40	44	15	49	9.76	0.00	6.28	2.50
3	0.00	34	37	18	40	44	15	49	14	0.00	6.28	2.50
4	0.00	34	48	18	40	32	16	49	18	0.00	2.50	2.50
5	1.12	34	47	18	42	12	16	49	18	0.00	2.50	2.50
6	6.94	34	33	18	42	41	16	49	18	0.00	2.50	2.50
7	12	34	33	18	44	44	27	47	16	0.00	2.32	2.32
8	22	34	33	18	47	44	27	47	1.44	0.00	2.32	2.32
9	31	33	33	18	51	44	27	47	0.64	0.00	2.32	2.32
10	31	33	33	20	51	44	32	47	0.00	0.00	2.50	2.14
11	32	33	33	25	51	43	47	47	0.00	0.00	2.50	2.14
12	35	33	34	25	51	42	47	46	0.00	0.00	2.50	2.14
13	35	33	35	26	49	42	47	46	0.00	0.00	2.50	2.14
14	35	33	26	33	49	42	48	46	0.00	0.00	2.50	1.96
15	35	33	1.44	33	49	42	48	46	0.00	0.00	2.50	1.96
16	35	33	0.64	40	49	42	48	46	0.00	0.00	2.50	1.96
17	35	33	0.16	37	49	42	48	40	0.00	0.16	2.50	1.96
18	35	33	0.80	1.44	49	42	48	24	0.00	4.20	2.50	1.96
19	35	33	0.80	1.96	49	43	47	13	0.00	6.72	2.50	1.78
20	35	33	1.12	21	49	39	47	13	0.00	6.72	2.50	1.78
21	35	33	3.80	41	49	27	47	15	0.00	6.72	6.50	2.68
22	35	33	22	50	49	27	47	15	0.00	6.50	6.72	5.62
23	35	33	18	61	48	28	47	16	0.00	6.50	6.72	6.94
24	35	33	18	58	48	28	47	15	0.00	6.50	6.72	8.80
25	35	33	18	47	44	28	47	15	0.00	6.28	6.72	9.04
26	35	33	18	46	44	27	47	15	0.00	6.28	6.72	9.04
27	34	33	16	43	44	17	47	15	0.00	6.28	6.72	9.04
28	34	33	16	40	43	15	45	14	0.00	6.28	6.50	8.80
29	34	33	16	40	43	14	45	11	0.00	6.28	–	8.80
30	34	33	16	40	44	14	45	11	0.00	6.28	–	8.08
31	–	33	–	41	44	–	45	–	0.00	6.28	–	3.22
Total	797.06	1,031	657.76	931.40	1,431	1,037	1,189	991	106.84	87.98	114.12	127.28
Mean	26.6	33.2	21.9	30.0	46.2	34.6	38.3	33.0	3.45	2.84	4.07	4.10
Max.	35	34	48	61	51	44	48	49	18	6.72	6.72	9.04
Min.	0.00	33	0.16	1.44	40	12	14	11	0.00	0.00	2.32	1.78
Runoff - mcm.	68.866	89.078	56.830	80.473	123.638	89.597	102.730	85.622	9.231	7.601	9.860	10.997

WATER YEAR 1972 : Max. 61 Min. 0.00 Mean 23.3 Annual Runoff 734.524 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 23, 72	06.00	141.15	61				

CHI RIVER BASIN

Huai Prong Khun Phet at Ban Nong Bua Noi, Chaiyaphum (E35)

Location: Lat. 15°-45'-00" N., Long. 101°-40'-30" E., on left bank about 1.5 kilometers upstream from confluence with Lam Krachuan, 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 E35 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.

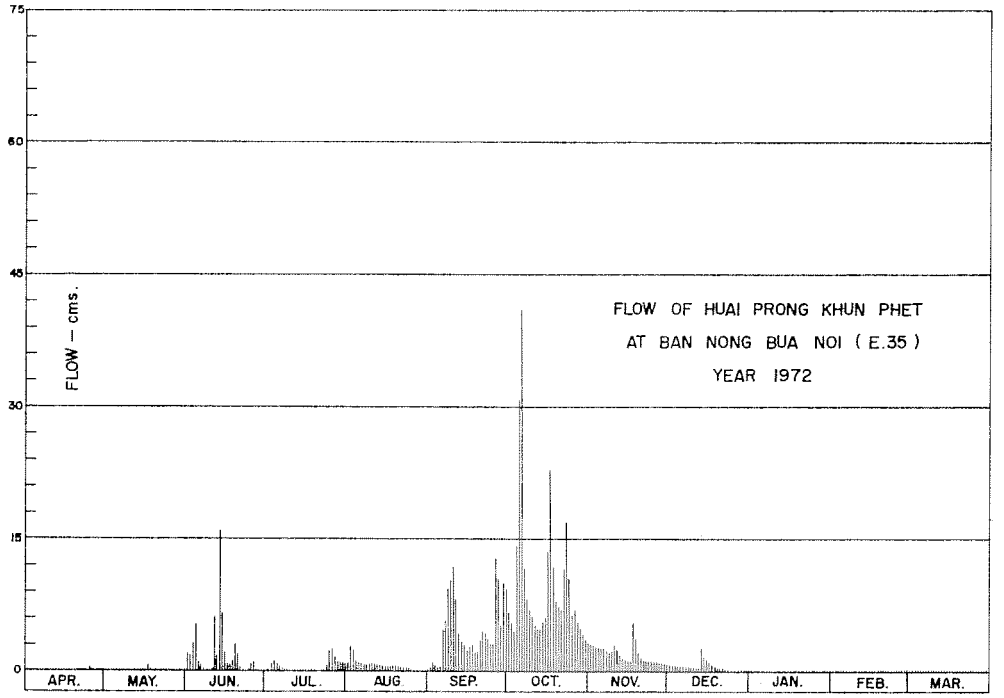
General Description: Records good. Stage-discharge relation defined by 145 discharge measurements made in 1971. Flow regulated by Nam Phong Dam at above gage site.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.52	0.57	0.94	0.56	0.86	0.75	1.10	0.99	0.81	0.62	0.52	0.48
2	.52	.55	.91	.70	.98	.84	.07	.98	.80	.61	.52	.48
3	.52	.54	.99	.86	.95	.81	.03	.97	.79	.61	.52	.47
4	.52	.53	1.07	.88	.88	.74	.34	.97	.78	.60	.52	.47
5	.51	.56	0.90	.82	.85	.76	.75	.96	.78	.59	.52	.47
6	0.51	0.55	0.80	0.75	0.83	1.08	1.75	0.97	0.77	0.59	0.52	0.47
7	.50	.53	.70	.71	.81	.08	.22	.95	.77	.58	.52	.47
8	.50	.53	.65	.67	.82	.19	.13	.94	.76	.57	.52	.46
9	.50	.51	.60	.65	.82	.19	.11	.95	.75	.57	.52	.46
10	.51	.51	.59	.62	.83	.22	.09	1.02	.73	.57	.52	.46
11	0.54	0.50	1.09	0.61	0.82	1.09	1.06	0.96	0.72	0.57	0.51	0.45
12	.54	.49	0.92	.59	.82	.02	.05	.93	.73	.57	.51	.45
13	.54	.48	1.30	.58	.79	0.99	.05	.91	.97	.57	.51	.45
14	.53	.48	.05	.58	.79	.97	.08	.90	.92	.57	.51	.45
15	.52	.47	0.91	.59	.79	.95	.09	.89	.87	.57	.51	.45
16	0.51	0.63	0.85	0.59	0.77	0.97	1.41	0.88	0.84	0.57	0.50	0.44
17	.52	.80	.79	.62	.78	.99	.30	1.07	.79	.56	.50	.44
18	.53	.63	.88	.75	.81	.94	.22	1.01	.76	.56	.50	.44
19	.54	.58	1.01	.72	.79	.94	.14	0.94	.74	.56	.50	.44
20	.53	.56	0.84	.67	.77	1.02	.12	.91	.74	.55	.49	.43
21	0.52	0.55	0.74	0.69	0.75	1.05	1.11	0.90	0.72	0.55	0.49	0.43
22	.52	.53	.68	.68	.73	.04	.29	.88	.70	.55	.49	.43
23	.63	.53	.64	.67	.72	.01	.31	.87	.69	.55	.49	.43
24	.56	.52	.61	.79	.71	0.99	.13	.87	.67	.55	.49	.43
25	.74	.51	.83	.97	.69	.99	.09	.87	.67	.54	.49	.43
26	0.62	0.50	0.85	0.97	0.68	1.24	1.12	0.86	0.67	0.54	0.49	0.43
27	.59	.50	.65	.92	.68	.15	.07	.85	.67	.54	.49	.43
28	.57	.49	.58	.88	.67	.05	.04	.84	.65	.54	.48	.43
29	.67	.48	.57	.85	.65	.19	.03	.83	.64	.54	-	.43
30	.62	.47	.56	.86	.65	.17	.01	.82	.63	.54	-	.43
31	-	.47	-	.85	.66	-	.00	-	.62	.52	-	.43
Mean	0.54	0.53	0.85	0.73	0.78	0.94	1.18	0.92	0.74	0.56	0.50	0.44
Max.	0.74	0.80	1.30	0.97	0.98	1.24	1.75	1.07	0.97	0.62	0.52	0.48
Min.	0.50	0.47	0.56	0.56	0.65	0.74	1.00	0.82	0.62	0.52	0.48	0.43

WATER YEAR 1972 : Max. 1.75 m. Min. 0.43 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.02	0.07	2.20	0.06	1.16	0.55	6.50	3.20	0.86	0.14	0.02	0.00
2	0.02	0.05	1.60	0.30	3.00	1.04	5.67	3.00	0.80	0.12	0.02	
3	0.02	0.04	3.20	1.16	2.40	0.86	4.33	2.80	0.75	0.12	0.02	
4	0.02	0.03	5.67	1.28	1.28	0.50	18	2.80	0.70	0.10	0.02	
5	0.01	0.06	1.40	0.92	1.10	0.60	41	2.60	0.70	0.09	0.02	
6	0.01	0.05	0.80	0.55	0.98	5.98	41	2.80	0.65	0.09	0.02	
7	0.00	0.03	0.30	0.35	0.86	5.98	12	2.40	0.65	0.08	0.02	
8	0.00	0.03	0.20	0.24	0.92	10.37	7.79	2.20	0.60	0.07	0.02	
9	0.00	0.01	0.10	0.20	0.92	10.36	6.93	2.40	0.55	0.07	0.02	
10	0.01	0.01	0.09	0.14	0.98	12	6.29	4.02	0.45	0.07	0.02	
11	0.04	0.00	6.29	0.12	0.92	6.29	5.26	2.60	0.40	0.07	0.01	
12	0.04	0.00	1.80	0.09	0.92	4.02	4.95	2.00	0.45	0.07	0.01	
13	0.04	0.00	16	0.08	0.75	3.20	4.95	1.60	2.80	0.07	0.01	
14	0.03	0.00	4.95	0.08	0.75	2.80	5.98	1.40	1.80	0.07	0.01	
15	0.02	0.00	1.60	0.09	0.75	2.40	6.29	1.34	1.22	0.07	0.01	
16	0.01	0.16	1.10	0.09	0.65	2.80	23	1.28	1.04	0.07	0.00	
17	0.02	0.80	0.75	0.14	0.70	3.20	16	5.67	0.75	0.06		
18	0.03	0.16	1.28	0.55	0.86	2.20	12	3.71	0.60	0.06		
19	0.04	0.08	3.71	0.40	0.75	2.20	8.22	2.20	0.50	0.06		
20	0.03	0.06	1.04	0.24	0.65	4.02	7.36	1.60	0.50	0.05		
21	0.02	0.05	0.50	0.28	0.55	4.95	6.93	1.40	0.40	0.05		
22	0.02	0.03	0.26	0.26	0.45	4.64	15	1.28	0.30	0.05		
23	0.16	0.03	0.18	0.24	0.40	3.71	17	1.22	0.28	0.05		
24	0.06	0.02	0.12	0.75	0.35	3.20	7.79	1.22	0.24	0.05		
25	0.50	0.01	0.98	2.80	0.28	3.20	6.29	1.22	0.24	0.04		
26	0.14	0.00	1.10	2.80	0.26	13	7.36	1.16	0.24	0.04		
27	0.09	0.00	0.20	1.80	0.26	8.65	5.67	1.10	0.24	0.04		
28	0.07	0.00	0.08	1.28	0.24	4.95	4.64	1.04	0.20	0.04	0.00	
29	0.24	0.00	0.07	1.10	0.20	10	4.33	0.98	0.18	0.04	–	
30	0.14	0.00	0.06	1.16	0.20	9.51	3.71	0.92	0.16	0.04	–	
31	–	0.00	–	1.10	0.22	–	3.40	–	0.14	0.02	–	0.00
Total	1.85	1.78	57.63	20.65	24.71	147.19	325.64	63.16	19.39	2.06	0.25	0.00
Mean	0.05	0.05	1.92	0.66	0.79	4.90	10.5	2.10	0.62	0.07	0.008	0.00
Max.	0.50	0.80	16	2.80	3.00	13	41	5.67	2.80	0.14	0.02	0.00
Min.	0.00	0.00	0.06	0.06	0.20	0.50	3.40	0.92	0.14	0.02	0.00	0.00
Runoff – mcm.	0.159	0.153	4.979	1.784	2.134	12.717	28.135	5.457	1.675	0.177	0.216	0.000

WATER YEAR 1972 : Max. 41 Min. 0.00 Mean 1.82 Annual Runoff 57.396 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	03.00	2.14	45				

CHI RIVER BASIN

Lam Krachuan at Ban Nong Bua Raheo, Chaiyaphum (E36A)

Location: Lat. 15°-43'-24" N., Long. 101°-40'-04" E., on right bank about 2 kilometers upstream from E36 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 reading 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.

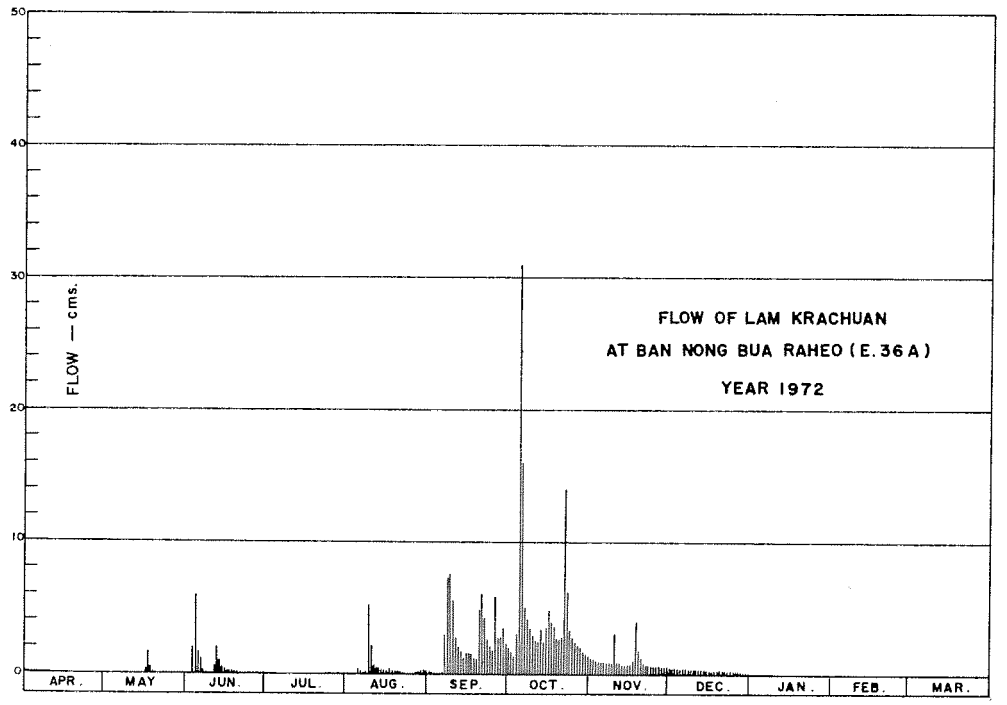
General Description: Records fair. Stage-discharge relation defined by 93 discharge measurements made in 1971.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	213.20	213.13	213.03	213.13	213.09	213.23	213.55	213.44	213.31	213.19	213.07	212.90
2	.19	.11	.03	.13	.09	.22	.51	.43	.31	.19	.06	.89
3	.18	.09	.56	.12	.07	.21	.47	.41	.30	.18	.06	.88
4	.17	.06	.96	.12	.16	.17	.68	.40	.30	.18	.05	.87
5	.15	.05	.52	.11	.28	.19	215.30	.40	.29	.18	.04	.86
6	213.14	213.03	213.43	213.11	213.24	213.24	214.75	213.39	213.29	213.17	213.04	212.85
7	.13	.02	.23	.10	.22	.89	213.90	.38	.28	.17	.03	.84
8	.15	.01	.20	.10	.22	214.06	.80	.38	.28	.17	.02	.83
9	.14	212.99	.18	.09	.90	.10	.73	.38	.28	.16	.02	.82
10	.12	.97	.15	.08	.49	213.85	.67	.68	.28	.16	.01	.81
11	213.09	212.96	213.15	213.07	213.35	213.73	213.62	213.38	213.29	213.16	213.01	212.80
12	.08	.94	.55	.06	.32	.56	.61	.38	.29	.16	.00	.79
13	.07	.93	.40	.05	.30	.51	.71	.36	.29	.16	.00	.79
14	.06	.92	.30	.05	.37	.44	.61	.35	.28	.16	212.99	.78
15	.05	.91	.27	.04	.25	.51	.73	.36	.28	.15	.99	.77
16	213.04	212.89	213.24	213.04	213.24	213.51	213.87	213.36	213.25	213.15	212.98	212.76
17	.04	213.51	.23	.05	.28	.49	.77	.41	.25	.15	.98	.75
18	.04	.31	.22	.05	.25	.44	.74	.78	.26	.15	.97	.74
19	.03	.19	.21	.04	.24	.44	.64	.53	.26	.15	.97	.73
20	.03	.17	.29	.04	.23	.86	.63	.44	.26	.15	.96	.72
21	213.02	213.17	213.17	213.03	213.22	213.98	213.65	213.38	213.25	213.14	212.96	212.71
22	.00	.16	.16	.02	.21	.79	.53	.36	.25	.13	.95	.71
23	212.99	.15	.15	.02	.20	.63	.99	.35	.24	.13	.95	.70
24	213.00	.13	.14	.01	.20	.56	.71	.34	.24	.13	.94	.70
25	212.99	.12	.14	.00	.19	.53	.64	.33	.23	.12	.93	.70
26	212.98	213.09	213.27	213.00	213.19	213.95	213.61	213.35	213.22	213.12	212.93	212.69
27	.98	.06	.25	212.98	.22	.65	.58	.34	.22	.11	.92	.69
28	.97	.05	.13	.97	.24	.65	.54	.32	.21	.11	.91	.68
29	213.19	.04	.11	.96	.25	.73	.51	.32	.21	.10	–	.67
30	.15	.01	.11	.95	.27	.60	.49	.32	.20	.09	–	.66
31	–	.04	–	213.10	.25	–	.47	–	.20	.08	–	.66
Mean	213.07	213.07	213.26	213.05	213.26	213.59	213.74	213.40	213.26	213.15	212.99	212.77
Max.	213.20	213.51	213.96	213.13	213.90	214.10	215.30	213.78	213.31	213.19	213.07	212.90
Min.	212.97	212.89	213.11	212.95	213.09	213.17	213.47	213.32	213.20	213.08	212.91	212.66

WATER YEAR 1972 : Max. 215.30 m. Min. 212.66 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.15	0.00	0.00	0.00	0.00	0.24	2.00	1.24	0.54	0.12	0.00	0.00
2	0.12		0.00		0.00	0.21	1.72	1.18	0.54	0.12		
3	0.09		2.08		0.00	0.18	1.44	1.06	0.50	0.09		
4	0.06		5.92		0.03	0.06	3.07	1.00	0.50	0.09		
5	0.00		1.79		0.42	0.12	31	1.00	0.46	0.09		
6	0.00		1.18		0.27	0.27	16	0.94	0.46	0.06		
7	0.00		0.24		0.21	5.25	5.25	0.88	0.42	0.06		
8	0.00		0.15		0.21	7.13	4.20	0.88	0.42	0.06		
9	0.00		0.09		5.25	7.65	3.52	0.88	0.42	0.03		
10	0.00		0.00		2.32	4.70	2.98	3.07	0.42	0.03		
11			0.00		0.70	2.80	2.56	0.88	0.46	0.03		
12			2.00		0.58	2.08	2.48	0.88	0.46	0.03		
13			1.00		0.50	1.72	3.34	0.76	0.46	0.03		
14			0.50		0.38	1.24	2.48	0.70	0.42	0.03		
15		0.00	0.38		0.30	1.72	3.52	0.76	0.42	0.00		
16		0.00	0.27		0.27	1.72	4.92	0.76	0.30	0.00		
17		1.65	0.24		0.42	1.58	3.90	1.06	0.30	0.00		
18		0.54	0.21		0.30	1.24	3.61	4.00	0.34	0.00		
19		0.12	0.18		0.27	1.24	2.72	1.86	0.34	0.00		
20		0.06	0.12		0.24	4.81	2.64	1.24	0.34	0.00		
21		0.06	0.06		0.21	6.16	2.80	0.88	0.30	0.00		
22		0.03	0.03		0.18	4.10	14	0.76	0.30	0.00		
23		0.00	0.00		0.15	2.64	6.28	0.70	0.27	0.00		
24			0.00		0.15	2.08	3.34	0.66	0.27	0.00		
25			0.00		0.12	1.86	2.72	0.62	0.24	0.00		
26			0.06		0.12	5.80	2.48	0.70	0.21	0.00		
27			0.00		0.21	2.80	2.24	0.66	0.21	0.00		
28	0.00		0.00		0.27	2.80	1.93	0.58	0.18	0.00	0.00	
29	0.12		0.00		0.30	3.52	1.72	0.58	0.18	0.00	–	
30	0.00		0.00		0.38	2.40	1.58	0.58	0.15	0.00	–	
31	–	0.00	–	0.00	0.30	–	1.44	–	0.15	0.00	–	0.00
Total	0.54	2.46	16.50	0.00	15.06	80.12	143.88	31.75	10.98	0.87	0.00	0.00
Mean	0.02	0.08	0.55	0.00	0.50	2.67	4.64	1.05	0.35	0.02	0.00	0.00
Max.	0.15	1.65	5.92	0.00	5.25	7.65	31	4.00	0.54	0.12	0.00	0.00
Min.	0.00	0.00	0.00	0.00	0.00	0.06	1.44	0.58	0.15	0.00	0.00	0.00
Runoff – mcm.	0.047	0.212	1.426	0.000	1.301	6.922	12.431	2.743	0.949	0.075	0.00	0.00

WATER YEAR 1972 : Max. 31 Min. 0.00 Mean 0.83 Annual Runoff 26.107 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.5	12.00	215.58	39				

CHI RIVER BASIN

Lam Chi Long at Ban Kut Yang, Chaiyaphum (E49)

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. - E49

Location: in the vicinity of E49 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: 1967-1969, 1969 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.

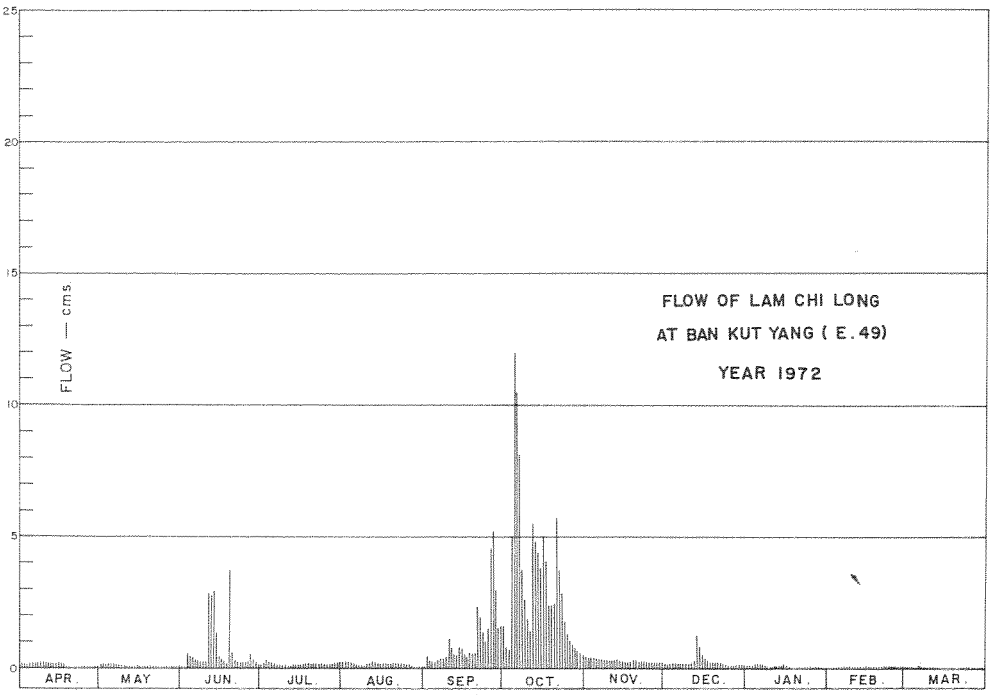
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 143 discharge measurements made in 1970.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	199.08	199.08	198.91	199.08	199.14	198.94	199.95	199.35	199.10	199.03	198.94	198.97
2	.05	.08	.92	.09	.15	199.37	.61	.32	.08	.06	.94	.98
3	.04	.08	199.40	.25	.14	.21	.52	.31	.11	.02	.96	.98
4	.09	.09	.37	.16	.09	.18	201.18	.29	.13	.10	.98	.97
5	.11	.08	.31	.12	.09	.16	202.64	.28	.12	.12	.99	.96
6	199.11	199.07	199.26	199.09	199.06	199.19	202.19	199.28	199.13	199.09	198.99	198.95
7	.12	.06	.21	.06	.08	.33	201.27	.27	.10	.08	199.01	.94
8	.12	.04	.15	.07	.05	.30	200.55	.24	.09	.06	198.99	.93
9	.11	.02	.16	.03	.04	.35	.23	.23	.10	.02	.98	.92
10	.11	.02	.13	.03	.10	.73	.01	.23	.10	198.99	.99	.91
11	199.10	199.01	200.42	198.99	199.14	199.60	199.86	199.22	199.06	198.97	198.99	198.91
12	.09	198.99	.38	.99	.21	.43	201.23	.23	.18	.97	.99	.91
13	.10	.99	.45	199.05	.11	.38	.02	.25	.79	.97	199.01	.91
14	.11	.98	199.69	.07	.11	.57	200.89	.23	.59	199.00	.01	.91
15	.09	.99	.42	.06	.06	.56	.73	.21	.46	.09	.01	.90
16	199.10	198.99	199.33	199.06	199.08	199.43	200.99	199.18	199.34	199.03	199.01	198.90
17	.06	.99	.24	.08	.11	.30	.79	.19	.26	198.98	.01	.89
18	198.92	.98	.16	.13	.10	.44	.25	.22	.22	.96	.01	.89
19	.99	.99	200.71	.14	.08	.42	.27	.30	.16	.95	.00	.89
20	.95	199.01	199.42	.04	.14	.40	200.29	.24	.15	.95	.00	.89
21	198.94	199.00	199.26	199.14	199.13	200.24	201.27	199.18	199.15	198.95	199.00	198.89
22	.94	198.99	.14	.12	.13	.06	200.75	.18	.13	.95	.00	.89
23	.95	.98	.13	.07	.13	199.91	.43	.22	.11	.95	198.99	.89
24	.98	.97	.14	.09	.13	.67	199.98	.18	.11	.95	.99	.89
25	.98	.95	.14	.09	.13	.98	.81	.19	.09	.95	.99	.88
26	199.00	198.95	199.12	199.12	199.10	200.94	199.71	199.14	199.08	198.94	198.98	198.88
27	.00	.94	.42	.03	.01	201.15	.62	.18	.09	.94	.98	.88
28	.00	.94	.22	.09	.00	200.24	.53	.19	.09	.94	.98	.88
29	198.99	.93	.15	.16	198.95	199.88	.50	.13	.11	.95		.87
30	.99	.93	.09	.18	.94	.95	.42	.11	.09	.95		.87
31		.93		.15	.95		.42		.05	.94		.87
Mean	199.04	199.00	199.39	199.09	199.09	199.64	200.42	199.22	199.17	198.99	198.99	198.91
Max.	199.12	199.09	200.71	199.25	199.21	201.15	202.64	199.35	199.79	199.12	199.01	198.98
Min.	198.92	198.93	198.91	198.99	198.94	198.94	199.42	199.11	199.05	198.94	198.94	198.87

WATER YEAR 1972 : Max. 202.64 m. Min. 198.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.18	0.18	0.028	0.18	0.24	0.052	1.62	0.47	0.20	0.13	0.052	0.076
2	0.15	0.18	0.036	0.19	0.25	0.50	0.92	0.43	0.18	0.16	0.052	0.084
3	0.14	0.18	0.55	0.35	0.24	0.31	0.74	0.41	0.21	0.12	0.068	0.084
4	0.19	0.19	0.50	0.26	0.19	0.28	5.37	0.39	0.23	0.20	0.084	0.076
5	0.21	0.18	0.41	0.22	0.19	0.26	12	0.38	0.22	0.22	0.092	0.068
6	0.21	0.17	0.36	0.19	0.16	0.29	9.95	0.38	0.23	0.19	0.092	0.060
7	0.22	0.16	0.31	0.16	0.18	0.44	5.73	0.37	0.20	0.18	0.11	0.052
8	0.22	0.14	0.25	0.17	0.15	0.40	3.25	0.34	0.19	0.16	0.092	0.044
9	0.21	0.12	0.26	0.13	0.14	0.47	2.32	0.33	0.20	0.12	0.084	0.036
10	0.21	0.12	0.23	0.13	0.20	1.16	1.77	0.33	0.20	0.092	0.092	0.028
11	0.20	0.11	0.86	0.092	0.24	0.90	1.42	0.32	0.16	0.076	0.092	0.028
12	0.19	0.092	2.74	0.092	0.31	0.59	5.57	0.33	0.28	0.076	0.092	0.028
13	0.20	0.092	2.95	0.15	0.21	0.52	4.77	0.35	1.28	0.076	0.11	0.028
14	0.21	0.084	1.08	0.17	0.21	0.84	4.31	0.33	0.88	0.10	0.11	0.028
15	0.19	0.092	0.58	0.16	0.16	0.82	3.79	0.31	0.64	0.19	0.11	0.020
16	0.20	0.092	0.44	0.16	0.18	0.59	4.66	0.28	0.46	0.13	0.11	0.020
17	0.16	0.092	0.34	0.18	0.21	0.40	3.97	0.29	0.36	0.084	0.11	0.018
18	0.036	0.084	0.26	0.23	0.20	0.61	2.37	0.32	0.32	0.068	0.11	0.018
19	0.092	0.092	3.73	0.24	0.18	0.58	2.42	0.40	0.26	0.060	0.10	0.018
20	0.060	0.11	0.58	0.14	0.24	0.55	2.47	0.34	0.25	0.060	0.10	0.018
21	0.052	0.10	0.36	0.24	0.23	2.35	5.73	0.28	0.25	0.060	0.10	0.018
22	0.052	0.092	0.24	0.22	0.23	1.90	3.85	0.28	0.23	0.060	0.10	0.018
23	0.060	0.084	0.23	0.17	0.23	1.52	2.89	0.32	0.21	0.060	0.092	0.018
24	0.084	0.076	0.24	0.19	0.23	1.04	1.70	0.28	0.21	0.060	0.092	0.018
25	0.084	0.060	0.24	0.19	0.23	1.70	1.32	0.29	0.19	0.060	0.092	0.016
26	0.10	0.060	0.22	0.22	0.20	4.49	1.12	0.24	0.18	0.052	0.084	0.016
27	0.10	0.052	0.58	0.13	0.11	5.25	0.94	0.28	0.19	0.052	0.084	0.016
28	0.10	0.052	0.32	0.19	0.10	2.35	0.76	0.29	0.19	0.052	0.084	0.016
29	0.092	0.044	0.25	0.26	0.060	1.46	0.70	0.23	0.21	0.060		0.014
30	0.092	0.044	0.19	0.28	0.052	1.62	0.58	0.21	0.19	0.060		0.014
31		0.044		0.25	0.062		0.58		0.15	0.052		0.014
Total	4.294	3.268	21.364	5.934	5.812	34.242	99.59	9.80	9.15	3.120	2.590	1.010
Mean	0.14	0.10	0.71	0.19	0.19	1.14	3.21	0.33	0.29	0.10	0.092	0.032
Max.	0.22	0.19	3.73	0.35	0.31	5.25	12	0.47	1.28	0.22	0.11	0.076
Min.	0.036	0.044	0.028	0.092	0.052	0.052	0.58	0.21	0.15	0.052	0.052	0.014
Runoff - mcm.	0.371	0.282	1.846	0.513	0.502	2.958	8.604	0.847	0.790	0.269	0.224	0.087

WATER YEAR 1972 : Max. 12 Min. 0.014 Mean 0.55 Annual Runoff 17.295 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.5	12.00	202.88	14				

CHI RIVER BASIN

Nam Yang at Ban Kaeng Yao, Kalasin (E54)

Location: Lat. 16°-26'-29" N., Long. 104°-02'-07" E., on left bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR damsite, Amphoe Kuchinarai, Kalasin.

Drainage Area: 847 Sq.km.

Type of Gage: Staff gage

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

Bench Mark:

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: Stable, no shifting adjustment for flow computation.

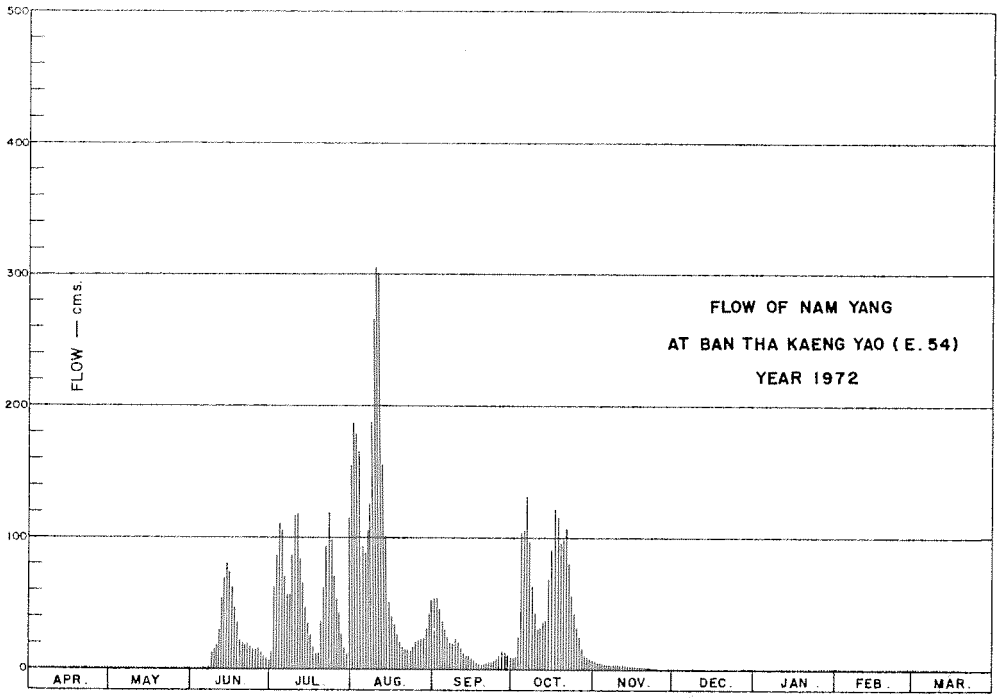
Overbank Flow Conditions: Overbank flow starts at elevation + 7.20 m. (A.D.) and is included.

General Description: Records good. Stage-discharge relation defined by 247 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.64	0.67	0.75	2.01	7.58	3.78	1.77	1.64	1.04	0.88	0.80	0.81
2	.62	.67	.72	3.96	.40	.78	.93	.56	.04	.87	.79	.80
3	.63	.65	.81	5.04	6.83	.52	2.89	.55	.02	.89	.82	.81
4	.65	.64	.85	.56	5.58	.29	5.29	.51	.00	.87	.81	.81
5	.73	.62	.82	.42	4.86	2.99	.42	.45	0.99	.87	.81	.81
6	0.80	0.62	0.85	4.42	4.93	2.70	6.17	1.40	0.99	0.84	0.81	0.81
7	.96	.61	1.09	3.93	5.87	.43	5.14	.37	1.01	.85	.82	.80
8	.93	.68	.68	.91	7.89	.40	4.10	.34	0.99	.85	.81	.79
9	.93	.71	2.17	5.11	8.64	.56	3.46	.31	.99	.83	.79	.79
10	.83	.73	.34	.73	.63	.54	2.94	.34	.96	.86	.81	.78
11	0.78	0.70	2.83	5.79	8.15	2.34	2.98	1.35	0.94	0.84	0.81	0.79
12	.71	.66	3.81	4.92	7.26	.04	3.15	.34	.96	.86	.80	.78
13	.74	.64	4.14	.20	5.55	1.91	.17	.33	.97	.82	.79	.79
14	.73	.67	.67	3.69	4.44	.90	.90	.31	.96	.80	.82	.79
15	.75	.67	.46	.19	3.76	.83	4.92	.30	.96	.83	.81	.78
16	0.77	0.65	4.04	2.75	3.34	1.69	5.17	1.26	0.95	0.86	0.80	0.78
17	.78	.62	3.56	.32	.08	.50	.92	.23	.95	.83	.79	.79
18	1.01	.64	.02	.03	2.77	.45	.69	.21	.94	.81	.79	.79
19	0.92	.65	2.51	.02	.54	.50	.14	.18	.94	.81	.81	.78
20	.86	.65	.37	3.32	.33	.44	.21	.17	.94	.79	.79	.77
21	0.82	0.67	2.39	4.17	2.19	1.57	5.45	1.16	0.94	0.81	0.78	0.78
22	.76	.64	.45	5.33	.18	.55	4.65	.13	.91	.81	.81	.77
23	.74	.66	.36	.74	.12	.67	3.95	.11	.93	.78	.79	.78
24	.72	.64	.18	.15	.34	.71	.42	.11	.91	.82	.80	.80
25	.75	.68	.17	4.32	.50	.83	2.95	.08	.90	.82	.80	.79
26	0.73	0.69	2.26	3.73	2.57	2.10	2.55	1.10	0.90	0.81	0.79	0.78
27	.68	.68	.12	.22	.57	.15	.19	.07	.94	.81	.80	.77
28	.68	.66	1.87	2.65	.59	.10	1.98	.06	.90	.80	.79	.77
29	.67	.69	.80	.23	.92	1.93	.87	.05	.88	.80		.79
30	.68	.69	.68	.06	3.41	.81	.78	.05	.89	.80		.78
31		.73		6.44	.79		.70		.89	.83		.79
Mean	0.77	0.66	0.29	4.01	4.53	2.20	3.77	1.27	0.95	0.83	0.80	0.79
Max.	1.01	0.73	4.67	6.44	8.64	3.78	6.17	1.64	1.04	0.89	0.82	0.81
Min.	0.62	0.62	0.72	2.01	2.12	1.44	1.70	1.05	0.88	0.78	0.78	0.77

WATER YEAR 1972 : Max. 8.64 m. Min. 0.62 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.14	0.17	0.35	13	187	54	8.98	7.28	1.36	0.74	0.50	0.53
2	0.12	0.17	0.26	59	179	54	11	6.36	1.36	0.71	0.47	0.50
3	0.13	0.15	0.53	93	157	46	30	6.25	1.28	0.77	0.56	0.53
4	0.15	0.14	0.65	111	111	40	102	5.81	1.20	0.71	0.53	0.53
5	0.29	0.12	0.56	106	87	32	106	5.15	1.16	0.68	0.53	0.53
6	0.50	0.12	0.65	73	89	26	132	4.60	1.16	0.62	0.53	0.53
7	1.04	0.11	1.56	58	122	20	96	4.27	1.24	0.65	0.56	0.50
8	0.92	0.18	7.76	57	* 206	20	63	3.94	1.16	0.65	0.53	0.47
9	0.92	0.23	15	95	* 305	23	45	3.61	1.16	0.59	0.47	0.47
10	0.59	0.29	18	117	* 302	22	31	3.94	1.04	0.68	0.53	0.44
11	0.44	0.20	29	119	* 227	18	32	4.05	0.96	0.62	0.53	0.47
12	0.23	0.16	54	89	174	13	36	3.94	1.04	0.68	0.50	0.44
13	0.32	0.14	64	66	110	11	37	3.83	1.08	0.56	0.47	0.47
14	0.29	0.17	81	51	74	11	57	3.61	1.04	0.50	0.56	0.47
15	0.35	0.17	74	37	53	9.88	89	3.50	1.04	0.59	0.53	0.44
16	0.41	0.15	61	27	41	7.88	97	3.06	1.00	0.68	0.50	0.44
17	0.44	0.12	47	18	35	5.70	123	2.73	1.00	0.59	0.47	0.47
18	1.24	0.14	33	13	27	5.15	115	2.51	0.96	0.53	0.47	0.47
19	0.88	0.15	22	13	22	5.70	96	2.24	0.96	0.53	0.53	0.44
20	0.68	0.15	19	41	18	5.04	99	2.16	0.96	0.47	0.47	0.41
21	0.56	0.17	19	65	16	6.47	107	2.08	0.96	0.53	0.44	0.44
22	0.38	0.14	21	103	16	6.25	81	1.84	0.84	0.53	0.53	0.41
23	0.32	0.16	19	117	14	7.64	59	1.68	0.92	0.44	0.47	0.44
24	0.26	0.14	16	97	18	8.14	43	1.68	0.84	0.56	0.50	0.50
25	0.35	0.18	15	70	22	9.88	32	1.52	0.80	0.56	0.50	0.47
26	0.29	0.19	17	52	23	14	23	1.60	0.80	0.53	0.47	0.44
27	0.18	0.18	14	38	23	15	16	1.48	0.96	0.53	0.50	0.41
28	0.18	0.16	10	25	23	14	12	1.44	0.80	0.53	0.47	0.41
29	0.17	0.19	9.40	16	31	11	10	1.40	0.74	0.53		0.47
30	0.18	0.19	7.76	13	43	9.56	9.12	1.40	0.77	0.53		0.44
31		0.29		142	54		8.00		0.77	0.59		0.47
Total	12.95	5.22	677.48	1,994	2,809	531.29	1,806.10	98.96	31.36	18.32	14.12	14.45
Mean	0.43	0.17	22.6	64.3	90.6	17.7	58.3	3.30	1.01	0.59	0.50	0.47
Max.	1.24	0.29	81	142	305	54	132	7.28	1.36	0.77	0.56	0.53
Min.	0.12	0.12	0.26	13	14	5.04	8.00	1.40	0.74	0.44	0.44	0.41
Runoff - MCM.	1.119	0.451	58.534	172.282	242.698	45.903	156.047	8.550	2.709	1.583	1.220	1.248

WATER YEAR 1972 : Max. 305 Min. 0.12 Mean 21.9 Annual Runoff 692.345 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 10	06.00	8.70	319				

MUN RIVER BASIN

Mun River at Railway Bridge, Nakhon Ratchasima (M2)

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.

Overbank Flow Conditions: No overbank flow.

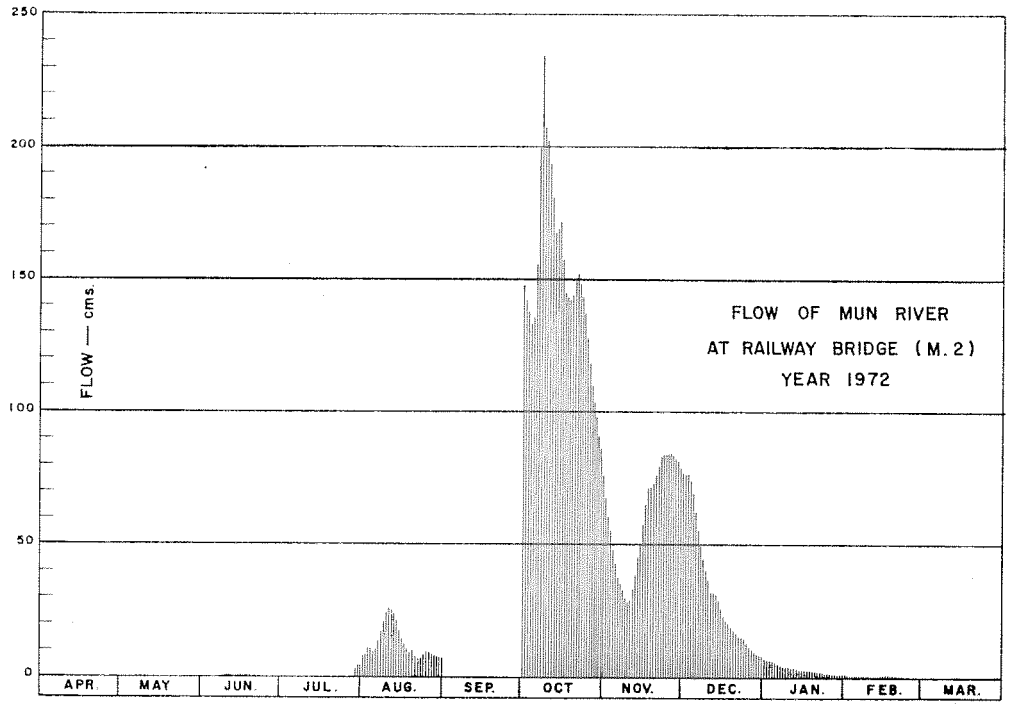
General Description: Records fair. Stage-discharge relation defined by 221 discharge measurements made in 1969.

Remarks: No record on periods September 1-30. Discharge record for period of no flow are omitted.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.02	158.91	158.93	159.16	160.39		165.51	163.96	164.08	160.34	159.49	159.21
2	.02	.91	.98	.16	.46		.45	.53	.08	.29	.46	.18
3	.02	.92	.97	.14	.61		.36	.25	.08	.29	.45	.17
4	.05	.92	.93	.09	.62		.33	162.91	.01	.27	.45	.15
5	.06	.92	.92	.05	.57		.38	.55	163.76	.22	.46	.12
6	159.06	158.92	158.92	159.05	160.63		165.51	162.27	163.43	160.12	159.45	159.11
7	.05	.91	159.41	.02	.80		.87	.07	163.10	.09	.45	.12
8	.06	.90	.54	.00	161.08		166.12	161.99	162.77	.06	.46	.17
9	.07	.88	.56	158.99	.35		165.98	.75	.54	.03	.44	.17
10	.05	.88	.53	.98	.52		.95	.69	.28	.01	.42	.15
11	159.05	158.88	159.47	158.97	161.55		165.93	161.82	162.05	160.01	159.30	159.16
12	.05	.88	.46	.97	.52		.82	162.07	161.93	.00	.39	.16
13	.05	.89	.45	.97	.41		.70	.36	.92	159.99	.37	.16
14	.05	.90	.42	.98	.20		.71	.67	.85	.90	.37	.18
15	.05	.90	.39	.94	160.95		.73	163.02	.72	.94	.37	.14
16	159.01	158.90	159.39	158.93	160.83		165.65	163.39	161.51	159.90	159.37	159.16
17	.01	.90	.39	.93	.67		.48	.79	.35	.85	.34	.11
18	.01	.90	.38	.93	.58		.46	.88	.28	.85	.33	.12
19	.01	.90	.35	.92	.48		.45	.89	.19	.80	.31	.12
20	.02	.90	.30	.92	.61		.47	.97	.11	.77	.29	.13
21	159.01	158.89	159.20	158.93	160.36		165.53	164.12	161.03	159.78	159.28	159.16
22	.01	.88	.22	.93	.32		.55	.28	160.96	.74	.27	.15
23	.01	.88	.17	.94	.34		.51	.33	.90	.77	.22	.13
24	.01	.89	.13	.95	.46		.44	.34	.87	.73	.21	.12
25	.00	.88	.12	.95	.55		.33	.35	.81	.68	.21	.17
26	158.98	158.88	159.12	158.95	160.54		165.19	164.35	160.68	159.64	159.23	159.17
27	.94	.88	.18	.94	.50		.05	.34	.58	.62	.21	.15
28	.94	.88	.17	159.14	.42		164.90	.29	.51	.59	.21	.16
29	.94	.88	.14	.91	.41		.71	.26	.49	.57	-	.15
30	.93	.86	.12	160.07	.38		.52	.19	.44	.55	-	.13
31	-	.89	-	.02	.34		.22	-	.40	.53	-	.10
Mean	159.02	158.89	159.24	159.09	160.72		165.44	163.32	161.86	159.90	159.35	159.15
Max.	159.07	158.92	159.56	160.07	161.55		166.12	164.35	164.08	160.34	159.49	159.21
Min.	158.93	158.88	158.92	158.92	160.32		164.22	161.69	160.40	159.53	159.21	159.10

WATER YEAR 1972 : Max. 166.12 m. Min. 158.86 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.01	0.03	0.26	8.08		148	74	77	7.48	0.97	0.32
2	0.12	0.01	0.08	0.26	8.92		142	64	77	6.88	0.88	0.28
3	0.12	0.02	0.07	0.24	11		135	57	77	6.88	0.85	0.27
4	0.15	0.02	0.03	0.19	11		133	51	75	6.64	0.85	0.25
5	0.16	0.02	0.02	0.15	10		136	44	69	6.04	0.88	0.22
6	0.16	0.02	0.02	0.15	11		148	38	61	5.00	0.85	0.21
7	0.15	0.01	0.73	0.12	14		190	35	54	4.71	0.85	0.22
8	0.16		1.12	0.10	18		234	33	48	4.44	0.88	0.27
9	0.17		1.18	0.09	22		208	29	44	4.17	0.82	0.27
10	0.15		1.09	0.08	25		203	28	39	3.99	0.76	0.25
11	0.15		0.91	0.07	26		199	30	34	3.99	0.68	0.26
12	0.15		0.88	0.07	25		183	35	32	3.90	0.68	0.26
13	0.15		0.85	0.07	23		167	40	32	3.81	0.64	0.26
14	0.15		0.76	0.08	20		168	46	31	3.00	0.64	0.28
15	0.15		0.68	0.04	16		171	53	29	3.36	0.64	0.24
16	0.11		0.68	0.03	14		162	60	25	3.00	0.64	0.26
17	0.11		0.68	0.03	12		145	70	22	2.70	0.58	0.21
18	0.11		0.66	0.03	10		143	72	21	2.70	0.56	0.22
19	0.11		0.60	0.02	9.16		142	72	20	2.40	0.52	0.22
20	0.12		0.50	0.02	11		144	74	18	2.22	0.48	0.23
21	0.11		0.30	0.03	7.72		150	78	17	2.28	0.46	0.26
22	0.11		0.34	0.03	7.24		152	82	16	2.04	0.44	0.25
23	0.11		0.27	0.04	7.48		148	84	15	2.22	0.34	0.23
24	0.11		0.23	0.05	8.92		142	84	15	1.98	0.32	0.22
25	0.10		0.22	0.05	10		132	84	14	1.70	0.32	0.27
26	0.08		0.22	0.05	9.96		122	84	12	1.50	0.36	0.27
27	0.04		0.28	0.04	9.40		113	84	10	1.40	0.32	0.25
28	0.04		0.27	0.24	8.44		105	83	9.54	1.27	0.32	0.26
29	0.04		0.24	3.09	8.32		97	82	9.28	1.21	–	0.25
30	0.03		0.22	4.53	7.96		90	79	8.68	1.15	–	0.23
31	–		–	4.08	7.48		87	–	8.20	1.09	–	0.20
Total	3.54	0.11	14.2	14.3	4.38		46.49	1,829	1,020	105	17.5	7.69
Mean	0.11	0.35	0.47	0.46	14.1		150	61.0	32.9	3.39	0.63	0.25
Max.	0.17	0.02	1.18	4.53	26		234	84	77	7.48	0.97	0.32
Min.	0.03	0.00	0.02	0.02	7.24		87	28	8.20	1.09	0.32	0.20
Runoff – mcm.	0.306	0.010	1.223	1.236	37.850		401.674	158.026	88.182	9.085	1.514	0.664

WATER YEAR 1972 : Max. 234 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.8	01.00	166.18	248				

MUN RIVER BASIN

Mun River at Amphoe Rasi Salai, Si Sa Ket (M5)

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 time daily readings at 06.00, 12.00, 18.00 hours on April - May, January - March and 06.00, 09.00, 12.00, 15.00, 18.00 hours on June - December.

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

Period of Available Gage Records: 1955 to date.

Rating Operation:

Period of Rating: 1972 to date.
Rated by Float: -
Rated by Current Meter: 1972 to date.

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

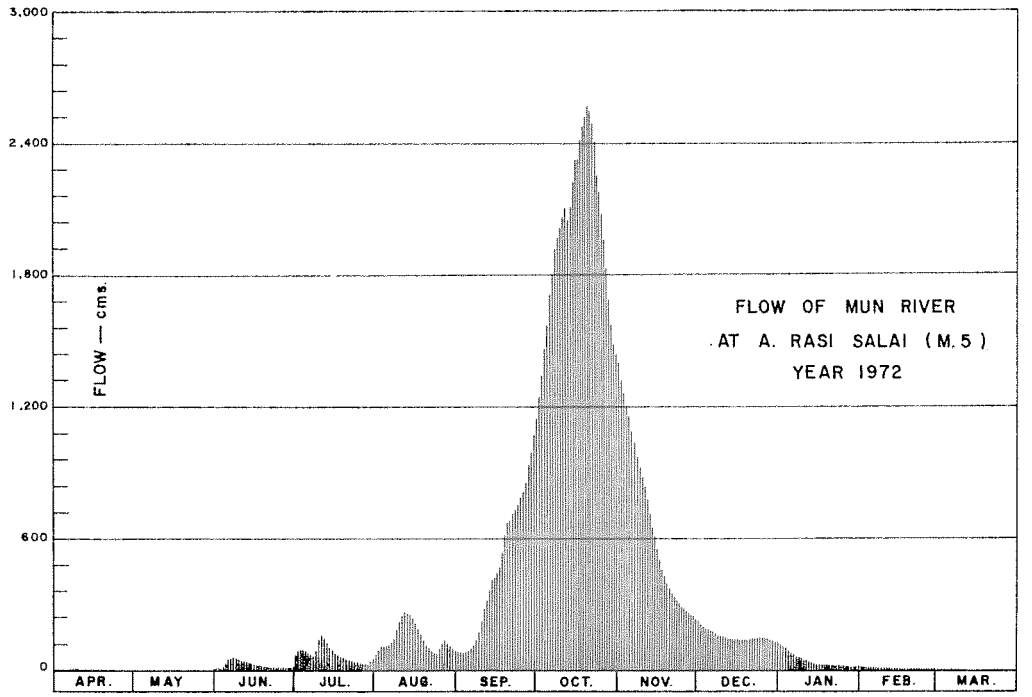
Overbank Flow Conditions: Overbank flow at about elevation + 117.40 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 32 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	110.13	110.11	110.30	111.09	111.42	111.44	118.74	119.36	112.69	111.82	110.61	110.38
2	.13	.09	.25	.39	.55	.42	119.04	.15	.58	.76	.59	.38
3	.14	.09	.29	.50	.67	.40	.35	118.98	.49	.69	.58	.37
4	.14	.08	.59	.48	.75	.38	.62	.78	.44	.63	.57	.37
5	.17	.07	.95	.43	.75	.46	.83	.58	.37	.54	.56	.36
6	110.22	110.06	111.05	111.31	111.78	111.60	119.97	118.33	112.32	111.47	110.54	110.36
7	.33	.06	.10	.22	.94	.75	120.06	.12	.26	.38	.54	.36
8	.36	.05	.07	.20	112.29	112.05	.15	117.81	.21	.28	.52	.35
9	.29	.03	.00	.45	.64	.45	.18	.50	.15	.22	.52	.35
10	.24	.03	110.94	.97	.83	.74	.22	.19	.12	.16	.51	.34
11	110.21	110.03	110.89	112.17	113.07	113.16	120.27	116.91	112.10	111.08	110.51	110.33
12	.20	.03	.85	.08	.09	.57	.24	.47	.07	.03	.50	.32
13	.17	.03	.77	111.87	112.99	.91	.23	.10	.02	110.99	.50	.31
14	.16	.03	.72	.68	.90	114.14	.29	115.71	111.97	.96	.50	.31
15	.16	.08	.67	.48	.72	.29	.36	.37	.96	.92	.49	.31
16	110.16	110.07	110.62	111.34	112.57	114.41	120.40	114.97	111.96	110.88	110.49	110.30
17	.16	.04	.56	.23	.34	.72	.44	.64	.96	.86	.48	.30
18	.18	.13	.52	.17	.15	115.24	.47	.35	.96	.84	.48	.29
19	.17	.13	.49	.09	111.92	.78	.49	.04	.97	.83	.47	.29
20	.17	.07	.45	.04	.74	.98	.51	113.91	.98	.79	.47	.29
21	110.16	110.06	110.43	110.99	111.64	116.13	120.50	113.67	111.99	110.78	110.47	110.28
22	.16	.05	.43	.93	.47	.24	.47	.57	112.01	.77	.46	.28
23	.15	.05	.42	.87	.35	.37	.41	.44	.02	.76	.45	.28
24	.15	.04	.41	.82	.35	.56	.35	.31	.02	.74	.44	.27
25	.15	.03	.39	.80	.56	.76	.28	.22	.02	.70	.43	.27
26	110.13	110.02	110.38	110.77	111.85	116.99	120.18	113.12	112.02	110.68	110.42	110.27
27	.12	.02	.37	.71	.88	117.28	.07	.06	.02	.68	.41	.26
28	.12	.02	.36	.65	.81	.68	119.92	112.99	111.98	.67	.39	.26
29	.12	.01	.35	.72	.67	118.05	.75	.92	.96	.66	-	.25
30	.12	.03	.32	.92	.52	.41	.56	.81	.92	.64	-	.25
31	-	.24	-	111.10	.41	-	.48	-	.88	.63	-	.25
Mean	110.17	110.06	110.60	111.24	112.02	114.44	120.06	115.61	112.11	111.03	110.50	110.31
Max.	110.36	110.24	111.10	112.17	113.09	118.41	120.51	119.36	112.69	111.82	110.61	110.38
Min.	110.12	110.01	110.25	110.65	111.35	111.38	118.74	112.81	111.88	110.63	110.39	110.25

WATER YEAR 1972 : Max. 120.51 m. Min. 110.01 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.20	5.40	13	62	89	91	1,179	1,384	223	117	15	7.40
2	6.20	4.70	11	86	100	89	1,268	1,305	210	109	15	7.40
3	6.60	4.70	13	96	111	87	1,380	1,248	199	101	14	7.10
4	6.60	4.40	27	94	119	85	1,498	1,190	193	94	14	7.10
5	7.80	4.10	51	90	119	92	1,622	1,137	185	84	13	6.80
6	9.80	3.80	59	80	122	105	1,738	1,075	179	77	13	6.80
7	14	3.80	63	73	138	119	1,828	1,029	173	68	13	6.80
8	16	3.50	61	71	176	149	1,935	966	167	59	12	6.50
9	13	2.90	55	91	217	194	1,974	911	160	55	12	6.50
10	11	2.90	50	141	240	229	2,028	858	157	50	11	6.20
11	9.40	2.90	46	163	268	279	2,098	813	155	45	11	5.90
12	9.00	2.90	43	153	271	328	2,056	745	152	41	11	5.60
13	7.80	2.90	38	131	259	372	2,042	690	146	38	11	5.30
14	7.40	2.90	35	112	248	405	2,126	631	141	36	11	5.30
15	7.40	4.40	32	94	226	426	2,248	580	140	33	11	5.30
16	7.40	4.10	29	82	208	442	2,320	521	140	31	11	5.00
17	7.40	3.20	26	73	181	486	2,408	475	140	30	10	5.00
18	8.20	6.20	24	69	160	561	2,474	434	140	28	10	4.70
19	7.80	6.20	22	62	136	641	2,518	391	139	28	10	4.70
20	7.80	4.10	20	58	118	672	2,565	372	141	25	10	4.70
21	7.40	3.80	19	54	109	694	2,540	341	142	25	10	4.40
22	7.40	3.50	19	49	93	711	2,474	328	145	24	9.80	4.40
23	7.00	3.50	19	45	83	730	2,342	313	146	24	9.50	4.40
24	7.00	3.20	18	41	83	759	2,230	297	146	22	9.20	4.10
25	7.00	2.90	17	40	101	789	2,112	286	146	20	8.90	4.10
26	6.20	2.60	17	38	129	825	1,974	274	146	19	8.60	4.10
27	5.80	2.60	16	35	132	874	1,838	267	146	19	8.30	3.80
28	5.80	2.60	16	31	125	942	1,692	259	141	18	7.70	3.80
29	5.80	2.30	15	35	111	1,014	1,570	250	138	18	–	3.50
30	5.80	2.90	14	49	98	1,093	1,469	237	131	17	–	3.50
31	–	11	–	63	88	–	1,433	–	125	16	–	3.50
Total	242.00	120.90	888	2,361	4,658	14,284	60,979	19,607	4,832	1,371	310.00	163.70
Mean	8.07	3.90	29.6	76.2	150	476	1,967	653	156	442	11.1	5.28
Max.	16	11	63	163	271	1,093	2,565	1,384	223	117	15	7.40
Min.	5.80	2.30	11	31	83	85	1,179	237	125	16	7.70	3.50
Runoff – mcm.	20.909	10.446	76.723	203.990	402.451	1,234.138	5,268.586	1,694.045	417.485	118.454	26.784	14.144

WATER YEAR 1972 : Max. 2,565 Min. 2.30 Mean 301 Annual Runoff 9,488.154 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.20	06.00	120.51	2,565				

MUN RIVER BASIN

Mun River at Amphoe Satuk, Buri Ram (M6A)

Location: Lat. 15°-17'-44" N., Long. 103°-17'-51" E., on right bank infront of Amphoe Satuk office, Buri Ram.

Drainage Area: 28,275 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 124.00 m. (M.S.L.)

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

Location: infront of automatic gage building.
Elevation: + 132.339 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: 1964 to date.

Rating Operation:

Period of Rating: 1970, 1976 to date.
Rated by Float: -
Rated by Current Meter: 1970, 1976 to date.

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

Overbank Flow Conditions: No overbank flow.

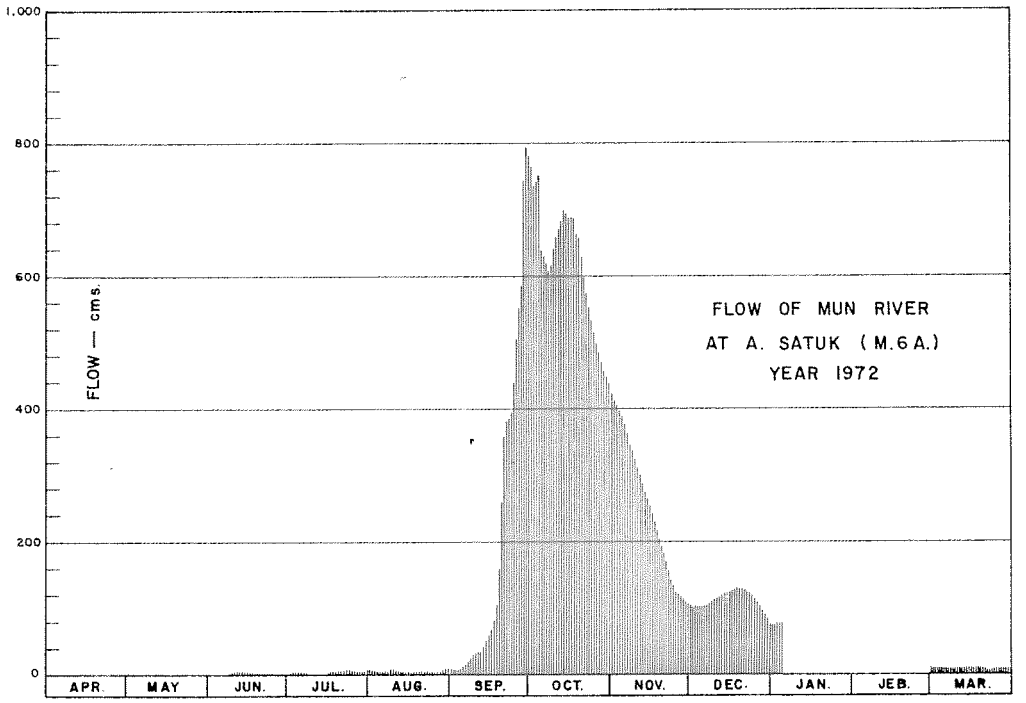
General Description: Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1970.

Remarks: No record on periods October 25 - November 9, January 1 - February 28.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	124.16	124.06	124.05	124.13	124.45	124.48	131.19		126.89			124.57
2	.17	.07	.04	.23	.42	.47	.10		.88			.56
3	.15	.07	.12	.26	.40	.46	.01		.87			.56
4	.14	.06	.12	.23	.31	.47	.08		.87			.54
5	.13	.05	.16	.21	.35	.55	130.58		.88			.52
6	124.12	124.05	124.15	124.20	124.33	124.72	130.55		126.90			124.52
7	.11	.05	.16	.18	.33	.88	.48		.92			.52
8	.14	.05	.17	.18	.38	125.05	.43		.94			.51
9	.13	.04	.20	.17	.55	.22	.46		.97			.50
10	.13	.04	.32	.16	.50	.35	.59	128.87	127.00			.50
11	124.13	124.03	124.29	124.15	124.45	125.37	130.69	128.81	127.05			124.49
12	.13	.03	.26	.13	.39	.44	.73	.73	.07			.48
13	.13	.03	.24	.12	.37	.60	.80	.65	.11			.48
14	.12	.02	.24	.11	.41	.81	.86	.57	.14			.47
15	.11	.02	.24	.11	.37	126.00	.84	.50	.17			.47
16	124.08	124.06	124.23	124.20	124.36	126.20	130.77	128.41	127.21			124.46
17	.10	.05	.22	.26	.35	.30	.80	.32	.24			.46
18	.08	.03	.20	.33	.32	.66	.79	.21	.26			.46
19	.07	.04	.19	.37	.28	127.33	.67	.08	.26			.44
20	.09	.05	.17	.39	.26	128.43	.66	127.97	.26			.44
21	124.09	124.07	124.16	124.41	124.26	129.11	130.43	127.84	127.27			124.43
22	.08	.08	.15	.42	.26	.21	.30	.70	.25			.42
23	.07	.08	.14	.43	.25	.25	.18	.57	.23			.41
24	.06	.07	.16	.44	.24	.32	.08	.43	.17			.43
25	.06	.05	.15	.43	.22	.63		.30	.11			.44
26	124.06	124.04	124.16	124.41	124.22	130.01		127.18	127.03			124.44
27	.06	.04	.16	.40	.29	.15		.08	126.93			.45
28	.06	.03	.15	.39	.37	.35		.01	.82			.45
29	.06	.03	.13	.38	.41	131.05		126.98	.70			.45
30	.07	.03	.12	.37	.44	.26		.93	.54			.44
31	-	.05	-	.43	.45	-		-	.36			.44
Mean	124.10	124.04	124.17	124.27	124.35	126.80			127.01			124.47
Max.	124.17	124.08	124.32	124.44	124.55	131.26	131.19	128.87	127.27			124.57
Min.	124.06	124.03	124.04	124.11	124.22	124.46			126.36			124.41

WATER YEAR 1972 : Max. 131.26 m. Min. 124.03 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.40	1.98	1.85	2.95	8.50	9.10	778	* 424	104			11
2	3.55	2.11	1.72	4.45	7.90	8.90	756	* 416	104			11
3	3.25	2.11	2.80	4.90	7.50	8.70	734	* 408	103			11
4	3.10	1.98	2.80	4.45	5.70	8.90	751	* 398	103			10
5	2.95	1.85	3.40	4.15	6.50	11	640	* 388	104			9.90
6	2.80	1.85	3.25	4.00	6.11	15	633	* 374	105			9.90
7	2.65	1.85	3.25	3.70	6.11	19	619	* 360	106			9.90
8	3.10	1.85	3.55	3.70	7.10	24	608	* 350	107			9.70
9	2.95	1.72	4.00	3.55	11	30	615	* 336	109			9.50
10	2.95	1.72	5.90	3.40	9.50	33	642	320	111			9.50
11	2.95	1.59	5.35	3.25	8.50	34	663	311	114			9.30
12	2.95	1.59	4.90	2.95	7.30	36	671	298	116			9.10
13	2.95	1.59	4.60	2.80	6.90	42	686	285	119			9.10
14	2.80	1.46	4.60	2.65	7.70	50	699	273	121			8.90
15	2.65	1.46	4.60	2.65	6.90	58	695	263	123			8.90
16	2.24	1.98	4.45	4.00	6.70	68	680	250	126			8.70
17	2.50	1.85	4.30	4.90	6.50	73	686	238	128			8.70
18	2.24	1.59	4.00	6.50	5.90	91	684	223	129			8.70
19	2.11	1.72	3.85	6.90	5.20	134	659	207	129			8.30
20	2.37	1.85	3.55	7.30	4.90	253	657	194	129			8.30
21	2.37	2.11	3.40	7.70	4.90	361	608	180	130			8.10
22	2.24	2.24	3.25	7.90	4.90	378	581	166	128			7.90
23	2.11	2.24	3.10	8.10	4.75	384	557	154	127			7.70
24	1.98	2.11	3.40	8.30	4.60	396	537	142	123			8.10
25	1.98	1.85	3.25	8.10	4.30	452	* 524	132	119			8.30
26	1.98	1.72	3.40	7.70	4.30	524	* 504	124	113			8.30
27	1.98	1.72	3.40	7.50	5.35	551	* 484	117	107			8.50
28	1.98	1.59	3.25	7.30	6.90	591	* 470	112	100			8.50
29	1.98	1.59	2.95	7.10	7.70	744	* 456	110	93			8.50
30	2.11	1.59	2.80	6.90	8.30	795	* 448	107	85			8.30
31	–	1.85	–	8.10	8.50	–	* 438	–	76			8.30
Total	77.17	56.31	108.92	167.85	206.92	6,182.60	19,163	7,980	3,491			279.70
Mean	2.57	1.81	3.63	16.0	6.67	206	618	266	113			9.02
Max.	3.55	2.24	5.90	8.30	11	795	778	424	130			11
Min.	1.98	1.59	1.72	2.65	4.30	8.70	* 438	107	76			7.70
Runoff – MCM.	6.667	4.865	9.410	14.502	17.877	525.536	1,655.683	689.472	301.622			24.183

WATER YEAR 1972 : Max. 795 Min. 1.59 Mean 108 Annual Runoff *3,419.248 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30	18.00	131.27	797				

MUN RIVER BASIN

Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M7)

Location: Lat. 15°-13'-17" N., Long. 104°-51'-39" E., on left bank at abutment of Seri Prachathipatai 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. M7

Location: Near abutment of the bridge
Elevation: + 113.317 m. (M.S.L.)

Gage Reading Frequency: 2-5 time daily readings at 09.00, 15.00 hours on April – June, November – March and 06.00, 09.00, 12.00, 15.00, 18.00 hours on July – October.

Basis of Mean Daily Gage Height: Arithmetic mean of 2-5 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 because of backwater effect, no shifting adjustment for flow computation.

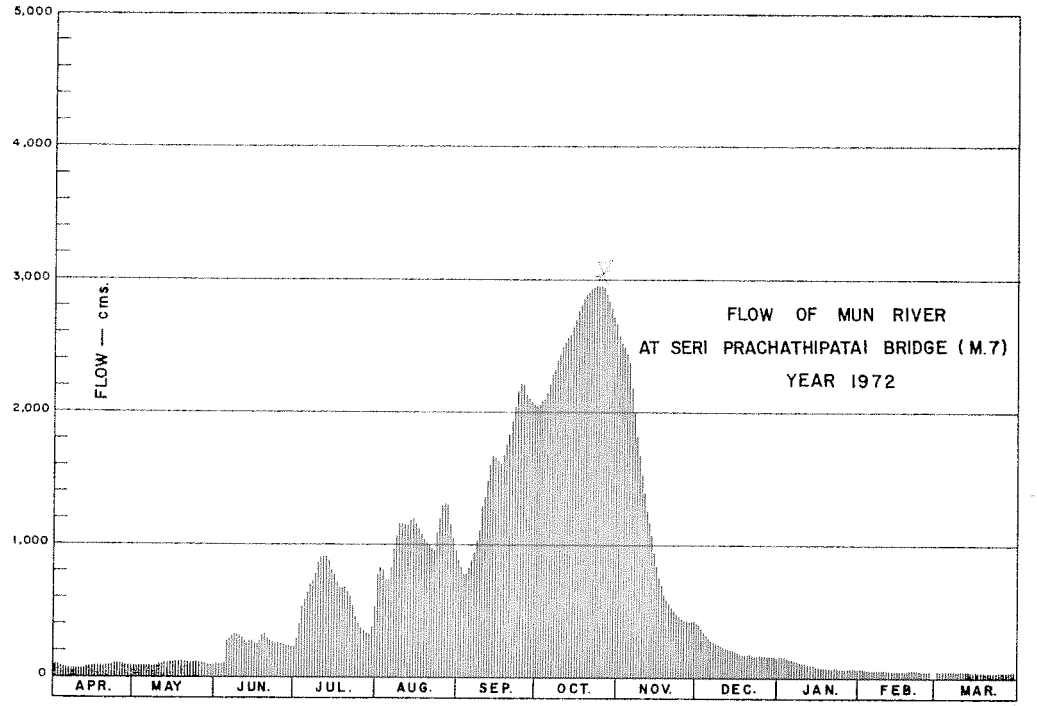
Overbank Flow Conditions: Overbank flow start at elevation + 112.06 m. (M.S.L.) and is included.

General Description: Records fair. Stage-discharge relation defined by 42 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.71	106.75	106.78	107.46	109.00	109.30	111.46	112.47	108.01	107.10	106.64	106.55
2	.70	.75	.77	.82	.16	.15	.49	.33	107.91	.09	.63	.55
3	.67	.74	.77	108.35	.14	.07	.51	.19	.80	.07	.62	.54
4	.66	.74	.81	.48	.04	.07	.54	.03	.71	.04	.61	.54
5	.65	.73	107.55	.60	108.91	.15	.60	111.85	.65	.02	.61	.54
6	106.64	106.73	107.59	108.84	109.04	109.30	111.66	111.63	107.59	106.99	106.60	106.54
7	.63	.73	.64	.91	.37	.46	.73	.40	.54	.96	.60	.53
8	.63	.73	.73	.95	.63	.66	.81	.13	.50	.92	.61	.53
9	.63	.75	.73	109.18	.81	.88	.88	110.84	.46	.89	.61	.53
10	.63	.77	.67	.32	.91	110.09	.95	.55	.43	.86	.60	.53
11	106.63	106.79	107.60	109.36	109.90	110.30	112.04	110.30	107.40	106.84	106.59	106.52
12	.63	.80	.50	.38	.89	.57	.11	.00	.36	.82	.59	.52
13	.69	.83	.50	.35	.92	.79	.16	109.74	.34	.81	.59	.51
14	.69	.85	.59	.26	.98	.89	.24	.48	.30	.78	.58	.50
15	.71	.85	.50	.12	.94	.88	.31	.26	.28	.74	.58	.49
16	106.72	106.87	107.48	109.00	109.89	110.82	112.43	109.04	107.24	106.72	106.57	106.49
17	.75	.88	.48	108.85	.81	.77	.54	108.85	.20	.71	.57	.49
18	.76	.89	.73	.79	.72	.87	.64	.73	.18	.70	.56	.48
19	.76	.88	.78	.80	.64	111.05	.73	.60	.17	.69	.55	.48
20	.76	.87	.71	.81	.58	.17	.81	.49	.16	.68	.56	.47
21	106.76	106.87	107.55	108.74	109.56	111.26	112.86	108.40	107.15	106.67	106.56	106.47
22	.77	.86	.59	.58	.51	.37	.91	.34	.14	.67	.56	.47
23	.78	.85	.46	.40	.48	.52	.95	.27	.14	.67	.56	.46
24	.80	.82	.49	.13	.90	.62	.95	.22	.14	.66	.55	.46
25	.81	.81	.49	107.99	110.05	.66	.95	.17	.13	.66	.55	.45
26	106.79	106.80	107.46	107.88	110.18	111.64	112.93	108.10	107.13	106.66	106.55	106.45
27	.78	.79	.43	.80	.22	.56	.91	.08	.12	.65	.55	.45
28	.77	.78	.41	.76	.13	.52	.85	.08	.12	.65	.55	.45
29	.76	.75	.39	.75	109.94	.49	.79	.08	.11	.65	–	.44
30	.76	.75	.36	.86	.70	.47	.70	.07	.11	.65	–	.44
31	–	.77	–	108.42	.50	–	.61	–	.10	.64	–	.44
Mean	106.71	106.80	107.45	108.58	109.66	110.58	112.32	109.69	107.34	106.79	106.58	106.49
Max.	106.81	106.89	107.78	109.38	110.22	111.66	112.95	112.47	108.01	107.10	106.64	106.55
Min.	106.63	106.73	106.77	107.46	108.91	109.07	111.46	108.07	107.10	106.64	106.55	106.44

WATER YEAR 1972 : Max. 112.95 m. Min. 106.44 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	88	95	101	254	758	884	2,040	2,594	407	167	75	59
2	86	95	99	352	825	821	2,067	2,533	377	165	73	59
3	80	94	99	514	817	787	2,085	2,482	346	160	71	58
4	78	94	107	559	775	787	2,112	2,438	321	154	69	58
5	76	92	277	602	722	821	2,166	2,384	304	149	59	58
6	75	92	288	695	775	884	2,225	2,195	288	143	67	58
7	73	92	302	722	915	954	2,290	1,986	275	137	67	56
8	73	92	326	738	1,030	1,044	2,358	1,807	264	128	69	56
9	73	95	326	834	1,115	1,138	2,406	1,640	254	122	69	56
10	73	99	310	893	1,163	1,251	2,451	1,483	246	116	67	56
11	73	103	291	910	1,158	1,356	2,505	1,356	238	113	65	55
12	73	105	264	919	1,143	1,494	2,544	1,206	228	109	65	55
13	84	111	264	906	1,168	1,613	2,571	1,081	224	107	65	53
14	84	114	288	867	1,196	1,667	2,614	963	214	101	64	52
15	88	114	264	808	1,177	1,661	2,651	867	209	94	64	51
16	90	118	259	758	1,143	1,629	2,711	775	200	90	62	51
17	95	120	259	698	1,115	1,602	2,764	698	190	88	62	51
18	97	122	326	675	1,072	1,656	2,812	652	185	86	61	49
19	97	120	340	679	1,034	1,757	2,858	602	183	84	59	49
20	97	118	321	683	1,007	1,831	2,890	562	181	82	61	48
21	97	118	277	656	998	1,891	2,910	531	178	80	61	48
22	99	116	288	595	976	1,966	2,930	511	176	80	61	48
23	101	114	254	531	963	2,094	2,946	487	176	80	61	46
24	105	109	261	443	1,158	2,186	2,946	471	176	78	59	46
25	107	107	261	401	1,231	2,225	2,946	456	174	78	59	45
26	103	105	254	368	1,296	2,206	2,924	434	174	78	59	45
27	101	103	246	346	1,316	2,130	2,901	428	172	76	59	45
28	99	101	241	335	1,271	2,094	2,846	428	172	76	59	45
29	97	95	236	332	1,177	2,067	2,795	428	169	76	–	44
30	97	95	228	363	1,062	2,049	2,727	425	169	76	–	44
31	–	99	–	538	972	–	2,671	–	167	75	–	44
Total	2,659	3,247	7,657	18,974	32,528	46,545	80,658	34,903	7,037	3,248	1,802	1,588
Mean	88.6	105	255	612	1,049	1,551	2,602	1,163	227	105	64.4	51.2
Max.	107	122	340	919	1,316	2,225	2,946	2,594	407	167	75	59
Min.	73	92	99	254	722	787	2,040	425	167	75	59	44
Runoff – MCM.	229.738	280.540	661.565	1,639.353	2,810.419	4,021.488	6,968.85	3,015.619	607.997	280.627	155.693	137.203

WATER YEAR 1972 : Max. 2,946 Min. 44 Mean 660 Annual Runoff 20,809.094 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.25	18.00	112.95	2,946				

MUN RIVER BASIN

Lam Plai Mat at railway bridge, Buri Ram (M8)

Location: Lat. 15°-01'-05" N., Long. 102°-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. - M8

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.

Overbank Flow Conditions: Overbank flow is not determined.

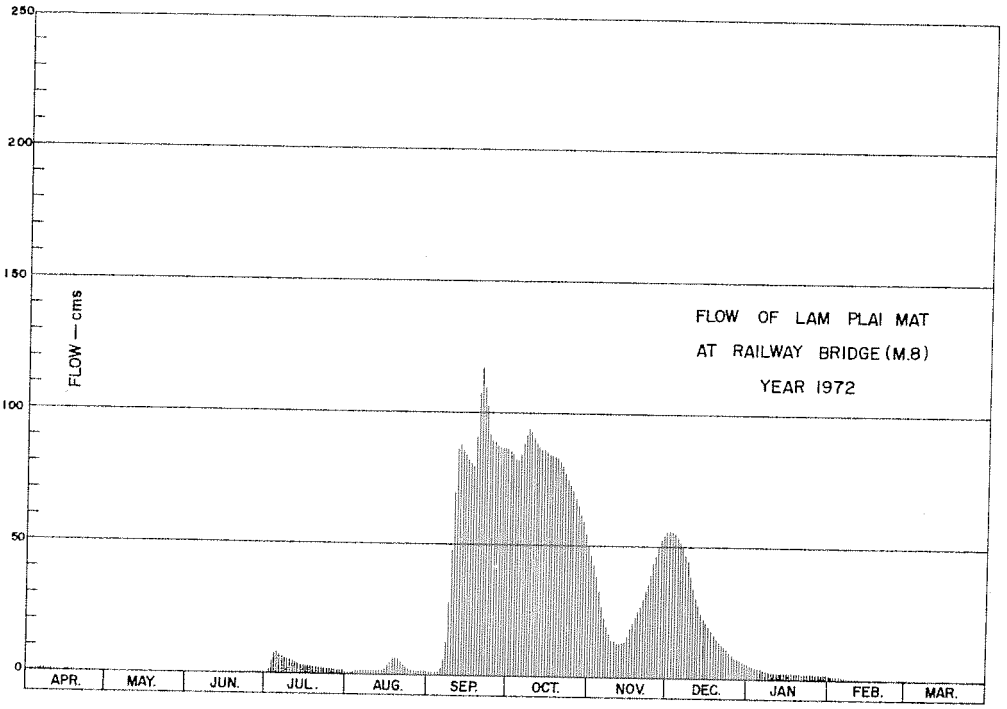
General Description: Records poor. Stage-discharge relation defined by 96 discharge measurements made in 1967.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	150.25	150.10	149.91	150.20	150.49	150.48	156.55	154.81	155.37	150.98	150.45	150.19
2	.25	.10	.93	.52	.48	.45	.50	.58	.37	.90	.35	.11
3	.26	.10	.96	151.23	.47	.44	.44	.29	.34	.83	.38	.12
4	.24	.09	.99	.48	.47	.44	.43	153.68	.27	.79	.41	.08
5	.23	.08	150.00	.46	.50	.55	.56	.27	.17	.76	.34	.10
6	150.27	150.07	150.01	151.34	150.50	151.32	156.72	152.91	155.03	150.73	150.25	150.04
7	.27	.06	.02	.23	.50	152.62	.78	.56	154.85	.71	.33	.11
8	.25	.05	.06	.16	.50	153.99	.82	.28	.64	.68	.33	.05
9	.24	.04	.06	.11	.49	155.18	.78	.09	.37	.67	.29	.03
10	.24	.04	.08	.07	.51	156.33	.71	.00	.07	.66	.22	.08
11	150.23	150.03	150.10	151.04	150.48	156.65	156.64	151.93	153.75	150.66	150.27	150.02
12	.22	.03	.12	150.96	.48	.58	.57	.93	.42	.64	.21	.06
13	.22	.03	.12	.88	.48	.52	.59	.96	.14	.62	.11	.14
14	.22	.03	.12	.82	.53	.47	.55	152.01	152.94	.63	.03	.05
15	.20	.03	.12	.80	.64	.42	.54	.21	.74	.61	.07	.07
16	150.19	150.02	150.12	150.80	150.83	156.37	156.51	152.52	152.55	150.59	150.22	150.07
17	.20	.01	.12	.78	151.09	.34	.50	.81	.39	.57	.19	.03
18	.19	.00	.12	.76	.22	.93	.49	153.02	.25	.56	.17	.02
19	.18	149.99	.13	.70	.19	157.49	.47	.23	.12	.56	.16	.02
20	.17	.99	.14	.68	.09	.51	.43	.48	151.99	.57	.11	.00
21	150.16	149.98	150.15	150.66	150.94	157.16	156.35	153.67	151.89	150.55	150.20	149.92
22	.15	.98	.18	.64	.81	156.88	.27	.86	.80	.50	.28	.91
23	.14	.98	.20	.63	.70	.69	.18	154.15	.68	.47	.30	.91
24	.14	.98	.22	.60	.63	.67	.10	.48	.54	.49	.24	.91
25	.14	.96	.29	.58	.57	.65	.00	.75	.46	.52	.10	.92
26	150.13	149.95	150.34	150.56	150.54	156.60	155.90	154.97	151.37	150.48	150.06	149.92
27	.12	.95	.31	.54	.52	.58	.78	155.14	.29	.57	.15	.92
28	.12	.94	.29	.52	.50	.58	.66	.26	.23	.54	.24	.93
29	.12	.93	.29	.50	.50	.58	.50	.32	.20	.50	-	.93
30	.11	.93	.28	.49	.50	.58	.32	.35	.11	.46	-	.92
31	-	.92	-	.48	.50	-	.10	-	.07	.44	-	.91
Mean	150.19	150.01	150.12	150.81	150.63	155.20	156.31	153.48	152.98	150.62	150.23	150.01
Max.	150.27	150.10	150.34	151.48	151.22	157.51	156.82	155.35	155.37	150.98	150.45	150.19
Min.	150.11	149.92	149.91	150.20	150.47	150.44	155.10	151.93	151.07	150.44	150.03	149.91

WATER YEAR 1972 : Max. 157.51 m. Min. 149.91 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	0.00	0.00	0.40	1.75	1.70	86	45	55	4.86	1.55	0.36
2	0.60			1.90	1.70	1.55	84	42	55	4.30	1.05	0.04
3	0.64			6.84	1.65	1.50	82	38	55	3.81	1.20	0.08
4	0.56			8.92	1.65	1.50	82	31	53	3.53	1.35	0.00
5	0.52			8.74	1.80	2.05	86	26	52	3.32	1.00	0.00
6	0.68			7.72	1.80	7.56	91	23	49	3.11	0.60	0.00
7	0.68			6.84	1.80	20	93	19	46	2.97	0.95	0.04
8	0.60			6.28	1.80	35	94	16	43	2.78	0.95	0.00
9	0.56			5.88	1.75	52	93	14	39	2.72	0.76	
10	0.56			5.56	1.85	79	91	14	36	2.66	0.48	
11	0.52		0.00	5.32	1.70	89	88	13	32	2.66	0.68	
12	0.48		0.08	4.72	1.70	87	86	13	28	2.54	0.44	0.00
13	0.48		0.08	4.16	1.70	85	87	13	25	2.42	0.04	0.16
14	0.48		0.08	3.74	1.95	83	86	14	23	2.48	0.00	0.00
15	0.40		0.08	3.60	2.54	82	85	16	21	2.36	0.00	
16	0.36		0.08	3.60	3.81	80	84	19	19	2.25	0.48	
17	0.40		0.08	3.46	5.72	79	84	22	17	2.15	0.36	
18	0.36		0.08	3.32	6.76	98	84	24	16	2.10	0.28	
19	0.32		0.12	2.70	6.52	117	83	26	15	2.10	0.24	
20	0.28		0.16	2.78	5.72	117	82	29	13	2.15	0.04	
21	0.24		0.20	2.66	4.58	105	80	31	13	2.05	0.40	
22	0.20		0.32	2.54	3.67	96	77	33	12	1.80	0.72	
23	0.16		0.40	2.48	2.90	90	75	37	11	1.65	0.80	
24	0.16		0.48	2.30	2.48	89	72	41	9.46	1.75	0.56	
25	0.16		0.76	2.20	2.15	89	70	45	8.74	1.90	0.00	
26	0.12		1.00	2.10	2.00	87	67	48	7.96	1.70	0.00	
27	0.08		0.85	2.00	1.90	87	64	51	7.32	2.15	0.20	
28	0.08		0.76	1.90	1.80	87	61	53	6.84	2.00	0.56	
29	0.08		0.76	1.80	1.80	87	58	54	6.60	1.80	–	
30	0.04		0.72	1.75	1.80	87	54	55	5.88	1.60	–	
31	–	0.00	–	1.70	1.80	–	50	–	5.56	1.50	–	0.00
Total	11.40	0.00	7.09	119.91	82.55	2,022.86	2,459	905	786.36	77.17	15.69	0.68
Mean	0.380	0.00	0.236	3.87	2.66	67.4	79.3	30.2	25.4	2.49	0.560	0.022
Max.	0.68	0.00	1.00	8.92	6.76	117	94	55	55	4.86	1.55	0.36
Min.	0.04	0.00	0.00	0.40	1.65	1.50	50	13	5.56	1.50	0.00	0.00
Runoff – mcm.	0.985	0.00	0.612	10.360	7.132	174.775	212.458	78.192	67.941	6.667	1.356	0.056

WATER YEAR 1972 : Max. 117 Min. 0.00 Mean 17.8 Annual Runoff 560.538 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	06.00	157.58	120				

MUN RIVER BASIN

Huai Samran at Highway Bridge, Si Sa Ket (M9)

Location: Lat. 15°-07'-00" N., Long. 104°-19'-20" E., on left bank downstream side of the bridge, and about 200 meters north of city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 109.00 m. (M.S.L.)

Bench Mark: B.M. No.0339

Location: on right bank at abutment of highway bridge.
Elevation: + 123.034 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: 1951, 1972 to date.
Rated by Float: -
Rated by Current Meter: 1951, 1972 to date.

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

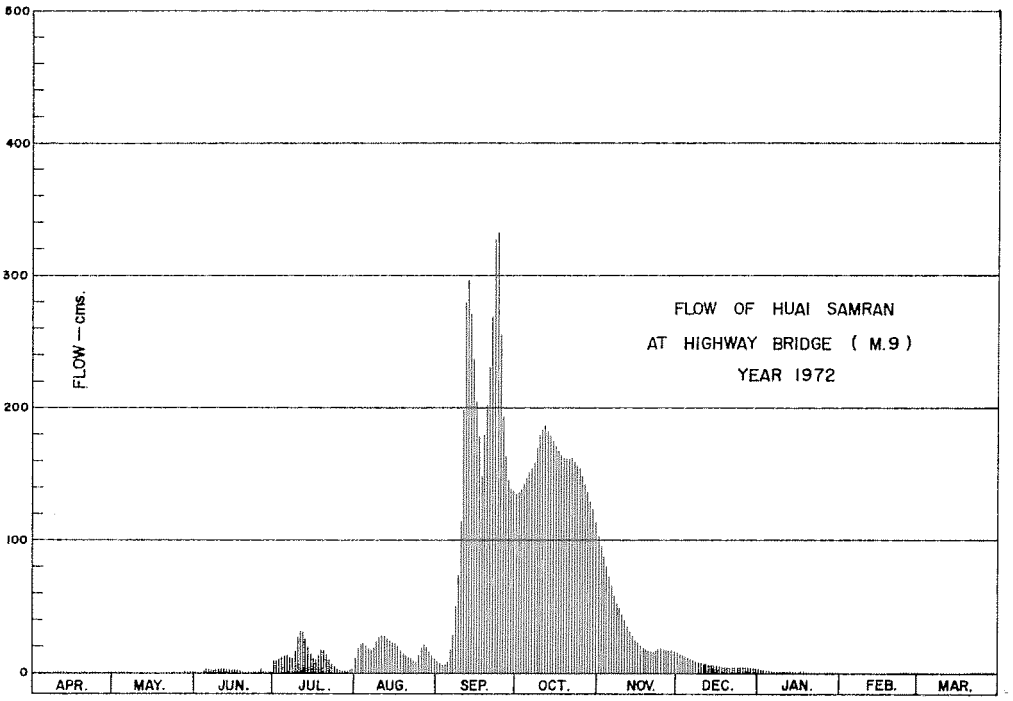
Overbank Flow Conditions: Overbank flow starts at elevation 118.85 m. (M.S.L.) and is included.

General Description: Records fair. Stage-discharge relation defined by 37 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.19	109.21	109.29	110.61	110.75	110.62	118.60	117.79	111.79	110.01	109.44	109.24
2	.17	.19	.41	.63	111.29	.51	.61	.48	.68	.00	.40	.23
3	.16	.14	.32	.71	.52	.39	.66	.18	.54	109.96	.40	.27
4	.15	.16	.38	.83	.57	.29	.73	116.85	.43	.89	.38	.27
5	.14	.15	.81	.98	.45	.44	.83	.52	.32	.84	.39	.26
6	109.17	109.17	109.89	110.97	111.28	111.11	118.91	116.17	111.23	109.81	109.39	109.24
7	.19	.14	.75	.86	.24	112.01	.95	115.78	.14	.80	.45	.23
8	.17	.13	.71	.80	.40	.90	119.00	.78	.06	.75	.36	.25
9	.21	.13	.72	111.19	.66	114.09	.12	.02	110.97	.72	.34	.20
10	.19	.15	.83	.80	.82	115.77	.27	114.68	.87	.71	.36	.20
11	109.16	109.24	109.96	112.08	111.92	118.51	119.32	114.30	110.75	109.69	109.36	109.22
12	.17	.21	.89	.09	.93	119.71	.34	113.96	.68	.66	.37	.24
13	.24	.16	.82	111.79	.81	.65	.29	.61	.64	.65	.36	.24
14	.23	.13	.76	.39	.75	.22	.25	.27	.63	.62	.36	.21
15	.21	.13	.69	.00	.70	118.57	.22	112.91	.60	.60	.36	.22
16	109.23	109.16	109.65	110.79	111.62	117.85	119.19	112.61	110.51	109.58	109.37	109.20
17	.23	.12	.67	.64	.48	.41	.15	.42	.45	.61	.40	.20
18	.21	.13	.61	.90	.29	.51	.11	.30	.40	.61	.36	.21
19	.19	.15	.55	111.34	.07	.81	.08	.21	.40	.56	.33	.24
20	.23	.20	.50	.25	110.92	118.00	.07	.10	.34	.51	.30	.32
21	109.17	109.19	109.45	111.01	110.83	118.45	119.05	111.97	110.25	109.51	109.29	109.19
22	.20	.17	.48	.74	.69	119.57	.06	.94	.22	.51	.30	.20
23	.18	.17	.44	.43	.60	120.16	.04	112.01	.20	.50	.31	.19
24	.30	.13	.43	.18	.59	.22	118.99	.12	.24	.50	.28	.16
25	.24	.11	.56	.03	.99	119.90	.95	.18	.25	.51	.28	.19
26	109.31	109.13	109.81	109.82	111.38	119.51	118.82	112.13	110.17	109.52	109.27	109.16
27	.29	.11	.60	.72	.50	.09	.71	.06	.07	.49	.24	.18
28	.26	.12	.49	.61	.45	118.79	.63	.02	.08	.47	.27	.19
29	.20	.11	.44	.57	.27	.68	.48	111.98	.11	.42		.18
30	.16	.12	.35	.73	.04	.65	.28	.95	.09	.45		.17
31		.32		110.09	110.79		.05		.08	.49		.16
Mean	109.20	109.16	109.61	110.88	110.86	116.55	118.93	113.76	110.65	109.64	109.35	109.21
Max.	109.31	109.32	109.96	112.09	111.93	120.22	119.34	117.79	111.79	110.01	109.45	109.32
Min.	109.14	109.11	109.29	109.57	110.59	110.29	118.05	111.94	110.07	109.42	109.24	109.16

WATER YEAR 1972 : Max. 120.22 m. Min. 109.11 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.28	0.32	0.48	10	12	10	136	106	17	4.40	1.20	0.38
2	0.24	0.28	1.05	10	19	9.01	137	97	16	3.80	1.00	0.36
3	0.22	0.18	0.62	11	22	7.91	139	89	15	2.66	1.80	0.44
4	0.20	0.22	0.90	13	23	7.01	143	81	14	3.14	0.98	0.44
5	0.18	0.20	3.07	14	21	8.36	148	74	13	2.84	0.95	0.42
6	0.24	0.24	3.63	14	19	16	153	67	12	2.66	0.75	0.38
7	0.28	0.18	2.75	13	18	30	156	61	11	2.60	1.25	0.36
8	0.24	0.16	2.55	12	20	48	159	55	11	2.30	0.80	0.40
9	0.32	0.16	2.60	17	25	74	167	50	10	2.12	0.70	0.30
10	0.28	0.20	3.21	27	27	119	182	45	9.39	2.06	0.80	0.30
11	0.22	0.38	4.12	32	29	232	186	40	8.55	2.45	0.80	0.34
12	0.24	0.32	3.63	32	29	301	188	37	8.08	2.30	0.85	0.38
13	0.38	0.22	3.14	27	27	297	183	33	7.78	2.25	0.80	0.38
14	0.36	0.16	2.80	21	26	272	180	30	7.71	2.10	0.80	0.32
15	0.32	0.16	2.45	15	23	235	177	26	7.50	2.00	0.80	0.34
16	0.36	0.22	2.25	12	24	199	174	23	6.87	1.90	0.85	0.30
17	0.36	0.14	2.35	10	22	179	170	22	6.50	2.05	1.00	0.30
18	0.32	0.16	2.05	14	19	148	166	21	6.20	2.05	0.80	0.32
19	0.28	0.20	1.75	19	16	197	164	20	6.20	1.80	0.80	0.38
20	0.36	0.30	1.50	18	14	207	163	19	5.84	1.55	0.50	0.60
21	0.24	0.28	1.25	15	13	229	162	18	5.30	1.55	0.48	0.28
22	0.30	0.24	1.40	12	11	292	163	18	5.12	1.55	0.50	0.30
23	0.26	0.24	1.20	8.00	10	327	161	18	5.00	1.50	0.55	0.28
24	0.50	0.16	1.15	6.02	9.89	332	158	19	5.24	1.50	0.46	0.22
25	0.38	0.12	1.80	4.67	14	260	156	20	5.30	1.55	0.46	0.28
26	0.55	0.16	3.07	3.14	20	206	148	19	4.82	1.60	0.44	0.22
27	0.48	0.12	2.00	2.60	22	168	142	19	4.22	1.45	0.38	0.26
28	0.42	0.14	1.45	2.05	21	146	138	18	4.28	1.35	0.44	0.28
29	0.30	0.12	1.20	1.85	18	140	131	18	4.46	1.10		0.26
30	0.22	0.14	0.75	2.65	15	139	123	18	4.34	1.25		0.24
31		0.60		5.21	12		114		4.28	1.45		0.22
Total	9.33	6.72	62.17	404.19	600.89	4,835.20	4,867	1,181	251.98	64.88	21.06	10.28
Mean	0.311	0.22	2.07	13.0	19.4	164	157	39.3	8.12	2.09	0.752	0.331
Max.	0.55	0.60	4.12	32	29	332	188	106	17	4.40	1.25	0.60
Min.	0.18	0.12	0.48	1.85	9.89	7.01	114	18	4.22	1.10	0.38	0.22
Runoff - MCM.	0.806	0.581	5.371	34.923	51.917	426.384	420.509	102.038	21.771	5.606	1.820	0.888

WATER YEAR 1972 : Max. 332 Min. 0.12 Mean 33.7 Annual Runoff 1,063.990 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.24	06.00	120.33	339				

MUN RIVER BASIN

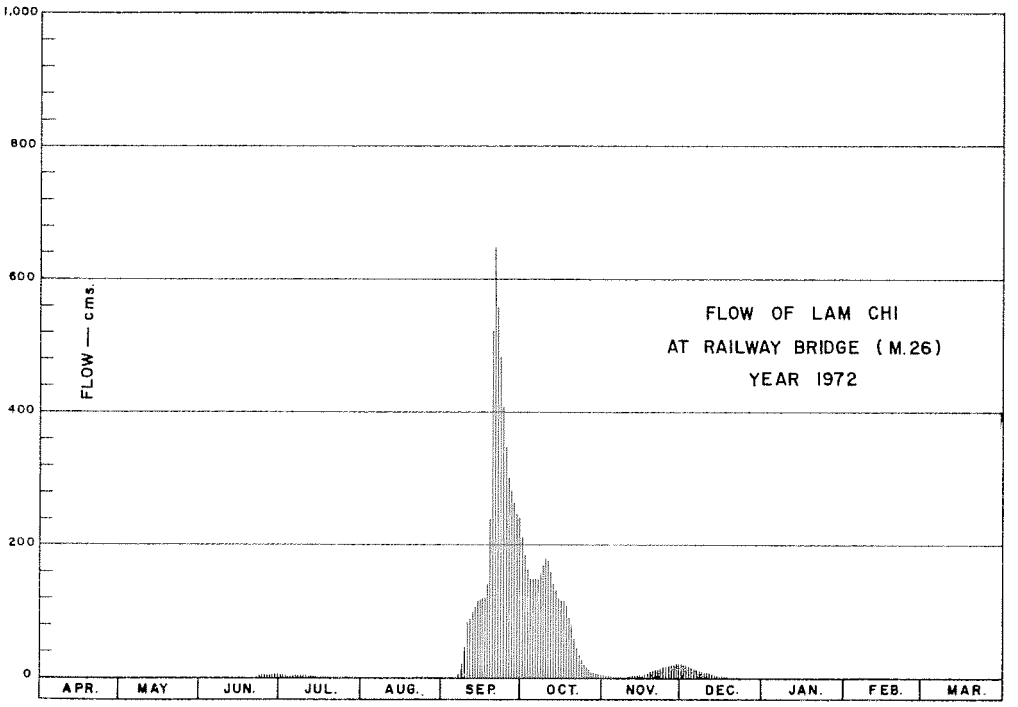
Lam Chi at railway bridge, Surin (M26)

Location:	Lat. 14°-54'-03" N., Long. 103°-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.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records fair. Stage-discharge relation defined by 279 discharge measurements made during 1967-1968.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	127.60	127.50	127.40	129.20	127.93	128.35	136.11	129.01	130.71	127.87	127.53	127.45
2	.54	.52	.40	128.99	.99	.26	135.97	128.88	.55	.85	.45	.45
3	.49	.48	.40	.76	128.10	.17	.90	.83	.42	.73	.53	.46
4	.49	.44	.51	.58	.32	.16	.81	.70	.31	.63	.64	.50
5	.50	.48	.56	.65	.47	.24	.80	.61	.15	.61	.54	.48
6	127.55	127.49	127.52	128.88	128.49	128.54	135.80	128.48	129.97	127.57	127.54	127.48
7	.52	.45	.51	.95	.49	129.29	.79	.40	.82	.57	.52	.51
8	.50	.46	.48	.86	.42	130.58	.81	.43	.69	.58	.55	.48
9	.47	.46	.48	.83	.39	132.30	.89	.53	.61	.50	.54	.47
10	.52	.45	.47	.89	.22	134.44	.95	.64	.53	.68	.52	.44
11	127.55	127.48	127.47	128.80	128.18	134.84	135.93	128.71	129.42	127.72	127.51	127.44
12	.57	.48	.57	.68	.14	135.01	.84	.73	.28	.68	.47	.46
13	.61	.43	.54	.61	.12	.22	.75	.75	.20	.67	.47	.47
14	.60	.40	.51	.55	.12	.41	.63	.76	.12	.66	.59	.53
15	.58	.43	.48	.48	.09	.48	.47	.71	.02	.60	.57	.48
16	127.58	127.55	127.45	128.40	128.08	135.49	135.44	128.78	128.92	127.58	127.54	127.43
17	.56	.49	.44	.36	.18	.52	.43	129.07	.84	.60	.62	.42
18	.56	.49	.50	.34	.35	.79	.27	.49	.77	.59	.64	.42
19	.56	.49	.63	.28	.46	136.51	134.78	.77	.66	.61	.48	.41
20	.56	.47	.81	.26	.50	137.65	133.85	.88	.52	.61	.51	.41
21	127.55	127.44	127.86	128.35	128.47	137.47	133.17	129.95	128.43	127.70	127.56	127.44
22	.55	.43	128.16	.45	.36	.29	132.42	130.12	.33	.67	.50	.47
23	.55	.43	.67	.44	.28	.03	131.68	.27	.22	.63	.50	.47
24	.55	.40	.92	.39	.20	136.78	.04	.36	.11	.62	.40	.47
25	.59	.39	129.09	.36	.33	.59	130.58	.42	.09	.63	.50	.47
26	129.60	127.38	128.99	128.37	128.17	136.50	130.21	130.52	128.05	127.59	127.47	127.48
27	.59	.38	.95	.30	.13	.43	129.81	.64	127.98	.54	.48	.47
28	.54	.38	129.03	.21	.09	.36	.45	.78	.97	.54	.46	.59
29	.47	.39	.19	.06	.28	.28	.30	.84	.93	.54		.52
30	.44	.39	.23	127.98	.43	.26	.22	.81	.88	.52		.50
31		.39		.90	.45		.15		.88	.53		.52
Mean	127.54	127.45	127.94	128.52	128.26	134.01	133.81	129.39	129.01	127.63	127.52	127.47
Max.	127.61	127.55	129.23	129.20	128.50	137.65	136.11	130.84	130.71	127.87	127.64	127.59
Min.	127.44	127.38	127.40	127.90	127.93	128.16	129.15	128.40	127.88	127.50	127.45	127.44

WATER YEAR 1972 : Max. 137.65 m. Min. 127.38 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	0.05	0.02	7.40	0.89	2.45	212	6.07	22	0.74	0.095	0.035
2	0.11	0.08	0.02	5.93	1.07	2.00	184	5.18	20	0.70	0.035	0.035
3	0.047	0.044	0.02	4.50	1.40	1.61	170	4.88	19	0.46	0.095	0.038
4	0.047	0.032	0.065	3.60	2.30	1.58	152	4.20	18	0.26	0.28	0.05
5	0.05	0.044	0.14	3.95	3.05	1.90	150	3.75	16	0.22	0.11	0.044
6	0.125	0.047	0.08	5.18	3.15	3.40	150	3.10	14	0.155	0.11	0.044
7	0.08	0.035	0.065	5.65	3.15	8.05	149	2.70	12	0.155	0.08	0.065
8	0.05	0.038	0.044	5.06	2.80	20	152	2.85	11	0.170	0.125	0.044
9	0.041	0.038	0.044	4.88	2.65	44	168	3.35	10	0.05	0.11	0.041
10	0.08	0.035	0.041	5.24	1.85	82	180	3.90	9.94	0.36	0.08	0.032
11	0.125	0.044	0.041	4.70	1.64	92	176	4.25	9.06	0.44	0.065	0.032
12	0.155	0.044	0.155	4.10	1.52	98	158	4.35	7.96	0.36	0.041	0.038
13	0.22	0.029	0.11	3.75	1.46	106	143	4.45	7.40	0.34	0.041	0.041
14	0.20	0.02	0.065	3.45	1.46	116	131	4.50	6.84	0.32	0.185	0.095
15	0.17	0.029	0.044	3.10	1.37	120	119	4.25	6.14	0.20	0.155	0.044
16	0.17	0.125	0.035	2.70	1.34	120	117	4.65	5.44	0.17	0.11	0.029
17	0.14	0.049	0.032	2.50	1.64	122	117	6.49	4.94	0.20	0.24	0.026
18	0.14	0.047	0.05	2.40	2.45	149	109	9.62	4.55	0.18	0.28	0.026
19	0.14	0.047	0.26	2.10	3.00	303	90	12	4.00	0.22	0.044	0.023
20	0.14	0.041	0.62	2.00	3.20	645	70	13	3.30	0.22	0.065	0.023
21	0.125	0.032	0.72	2.45	3.05	591	58	14	2.85	0.40	0.14	0.032
22	0.125	0.029	1.58	2.95	2.50	537	46	15	2.35	0.34	0.05	0.041
23	0.125	0.029	4.05	2.90	2.10	459	35	17	1.80	0.26	0.05	0.041
24	0.125	0.02	5.44	2.65	1.70	384	26	18	1.43	0.24	0.02	0.041
25	0.185	0.018	6.63	2.50	2.35	327	21	19	1.37	0.26	0.05	0.041
26	0.20	0.016	5.93	2.55	1.61	300	16	20	1.25	0.18	0.041	0.044
27	0.185	0.016	5.63	2.20	1.49	279	12	21	1.04	0.11	0.044	0.041
28	0.11	0.016	6.21	1.75	1.37	266	9.30	23	1.01	0.11	0.038	0.185
29	0.041	0.018	7.33	1.28	2.10	246	8.10	24	0.89	0.11		0.08
30	0.032	0.018	7.61	1.04	2.85	242	7.54	23	0.76	0.08		0.05
31		0.018		0.80	2.95		7.05		0.76	0.09		0.08
Total	3.68	1.15	53.1	105	65.4	5,669	3,143	301	2.27	8.11	2.78	1.48
Mean	0.123	0.037	1.77	3.39	2.11	189	101	10.3	7.32	0.26	0.099	0.048
Max.	0.22	0.125	7.61	7.40	3.20	645	212	24	22	0.74	0.28	0.185
Min.	0.032	0.016	0.02	0.80	0.89	1.58	7.05	2.70	0.76	0.05	0.035	0.032
Runoff — mcm.	0.334	0.099	4.586	9.094	5.655	489.799	271.554	26.053	19.619	0.701	0.240	0.128

WATER YEAR 1972: Max. 645 Min. 0.016 Mean 26.2 Annual Runoff 827.848 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	24.00	137.80	690				

MUN RIVER BASIN

Lam Se Bai at Ban Kaeng, Yasothon (M32A)

Location: Lat. 15°-54'-05" N., Long. 104°-28'-20" E., on right bank at Ban Kaeng about 7 kilometers upstream from M32 station, Amphoe Khan 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, 1971-1973.
Rated by Float: –
Rated by Current Meter: 1968-1969, 1971-1973.

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

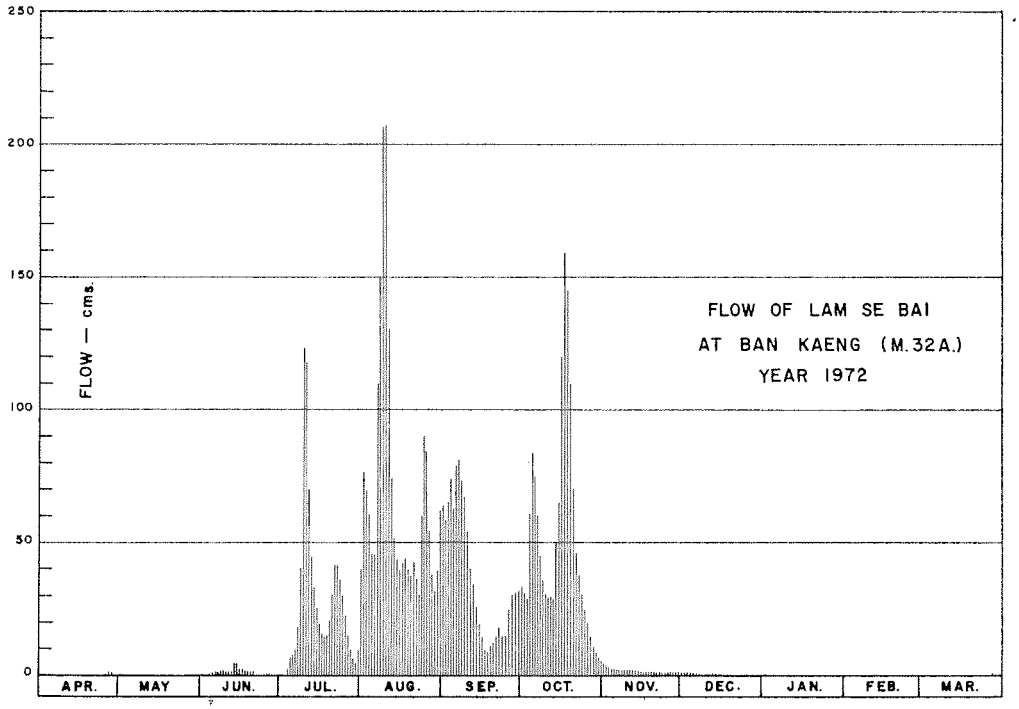
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 21 discharge measurements made in 1969.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.87	1.05	1.03	0.99	4.98	4.93	3.98	1.76	1.28	1.06	0.91	0.91
2	.86	.01	.01	.94	5.22	.80	.85	.64	.28	.05	.90	.90
3	.86	0.98	0.98	1.18	.01	.94	.74	.56	.26	.02	.90	.91
4	.86	.95	1.10	.70	4.71	5.15	4.85	.53	.24	.01	.90	.92
5	.87	.93	.28	2.13	.42	4.92	5.36	.50	.24	.00	.90	.92
6	0.86	0.90	1.22	2.22	4.42	5.25	5.17	1.48	1.23	1.01	0.90	0.93
7	.86	.91	.32	.60	5.74	.31	4.90	.46	.21	.02	.89	.93
8	.86	.94	.38	3.30	6.40	.14	.42	.43	.20	.01	.88	.92
9	.85	.94	.41	4.48	.92	.08	.06	.43	.19	.00	.87	.91
10	.84	.93	.34	5.98	.92	4.81	3.82	.42	.18	0.99	.87	.91
11	0.83	0.91	1.31	5.88	6.26	4.38	3.74	1.41	1.19	0.98	0.88	0.90
12	.82	.89	.32	4.92	5.32	.00	.78	.41	.23	.99	.88	.89
13	.82	.88	.84	.21	4.68	3.75	.74	.40	.21	1.00	.88	.88
14	.82	.86	.76	3.81	.40	.44	4.34	.40	.18	.00	.87	.87
15	.81	.86	.56	.43	.18	.09	.98	.40	.17	.00	.88	.86
16	0.81	0.87	1.54	3.09	4.25	2.68	5.98	1.40	1.14	0.99	0.87	0.85
17	.80	.87	.44	2.88	.38	.38	6.44	.40	.14	.99	.88	.85
18	.79	.87	.34	.82	.33	.28	.28	.39	.14	.99	.88	.84
19	.78	.89	.28	.95	.14	.54	5.85	.37	.16	.98	.87	.84
20	.78	.90	.34	3.54	.14	.57	.27	.36	.18	.97	.87	.83
21	0.77	0.95	1.28	4.04	4.34	2.76	4.67	1.35	1.16	0.97	0.93	0.83
22	.77	1.09	.15	.30	.07	3.12	.30	.31	.14	.97	.95	.83
23	.77	.10	.05	.25	3.82	.08	3.98	.29	.12	.97	.95	.82
24	.85	.05	.00	3.98	4.72	2.82	.74	.31	.12	.96	.94	.82
25	.92	.02	.05	.66	5.47	.94	.47	.31	.11	.96	.94	.81
26	1.23	0.99	1.23	3.22	5.34	3.42	3.18	1.33	1.10	0.96	0.92	0.82
27	.25	.97	.16	2.72	4.66	.72	2.90	.30	.09	.95	.91	.81
28	.19	.94	.07	.27	.16	.82	.60	.28	.08	.94	.91	.81
29	.14	.92	.00	1.95	3.86	.81	.34	.28	.08	.94		.81
30	.09	.90	0.96	.79	4.53	.85	.10	.28	.07	.93		.80
31		.97		2.80	.90		1.92		.07	.92		.80
Mean	0.89	0.94	1.26	3.16	4.86	3.83	4.18	1.41	1.17	0.98	0.90	0.86
Max.	1.25	1.10	1.84	5.98	6.92	5.31	6.44	1.76	1.28	1.06	0.95	0.93
Min.	0.77	0.86	0.96	0.94	3.82	2.28	1.92	1.28	1.07	0.92	0.87	0.80

WATER YEAR 1972 : Max. 6.92 m. Min. 0.77 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.17	0.50	0.46	0.38	66	64	34	4.28	1.32	0.52	0.22	0.22
2	0.16	0.42	0.42	0.28	77	58	32	3.44	1.32	0.50	0.20	0.20
3	0.16	0.36	0.32	0.92	67	64	29	2.96	1.24	0.44	0.20	0.22
4	0.16	0.30	0.60	3.80	55	74	60	2.78	1.16	0.42	0.20	0.24
5	0.17	0.26	1.32	7.37	46	63	84	2.60	1.16	0.40	0.20	0.24
6	0.16	0.20	1.08	8.20	46	79	75	2.48	1.12	0.42	0.20	0.26
7	0.16	0.22	1.52	12	107	81	62	2.36	1.04	0.44	0.19	0.26
8	0.16	0.28	1.88	22	155	73	46	2.18	1.00	0.42	0.18	0.24
9	0.15	0.28	2.06	47	207	70	36	2.18	0.96	0.40	0.17	0.22
10	0.14	0.26	1.64	123	207	59	31	2.12	0.92	0.38	0.17	0.22
11	0.13	0.22	1.46	116	144	44	29	2.06	0.96	0.36	0.18	0.20
12	0.12	0.19	1.52	63	82	35	30	2.06	1.12	0.38	0.18	0.19
13	0.12	0.18	4.92	40	54	30	29	2.00	1.04	0.40	0.18	0.18
14	0.12	0.16	4.28	31	45	24	43	2.00	0.92	0.40	0.17	0.17
15	0.11	0.16	2.96	24	39	18	66	2.00	0.88	0.40	0.18	0.16
16	0.11	0.17	2.84	18	41	13	123	2.00	0.76	0.38	0.17	0.15
17	0.10	0.17	2.24	15	44	9.80	159	2.00	0.76	0.38	0.18	0.15
18	0.095	0.17	1.64	15	43	8.80	145	1.94	0.76	0.38	0.18	0.14
19	0.090	0.17	1.32	16	38	11	114	1.82	0.84	0.36	0.17	0.14
20	0.090	0.20	1.64	26	38	12	79	1.76	0.92	0.34	0.17	0.13
21	0.085	0.30	1.32	35	43	14	53	1.70	0.84	0.34	0.16	0.13
22	0.085	0.58	0.80	42	36	19	42	1.46	0.76	0.34	0.30	0.13
23	0.085	0.60	0.50	41	31	18	34	1.36	0.68	0.34	0.30	0.12
24	0.15	0.52	0.40	34	55	15	29	1.46	0.68	0.32	0.28	0.12
25	0.24	0.44	0.50	28	90	16	24	1.46	0.64	0.32	0.28	0.11
26	1.12	0.38	1.12	20	83	23	20	1.58	0.60	0.32	0.24	0.12
27	1.20	0.34	0.84	13	53	29	16	1.40	0.58	0.30	0.22	0.11
28	0.96	0.28	0.54	8.70	38	31	12	1.32	0.56	0.28	0.22	0.11
29	0.76	0.24	0.40	5.80	32	31	9.40	1.32	0.56	0.28		0.11
30	0.58	0.20	0.32	4.52	49	32	7.10	1.32	0.54	0.26		0.10
31		0.34		14	62		5.56		0.54	0.24		0.10
Total	7.94	9.11	42.90	834.97	2,173	1,118.60	1,558.06	61.40	27.18	11.46	5.79	5.19
Mean	0.26	0.29	1.43	26.9	70.1	37.3	50.3	2.05	0.88	0.37	0.21	0.17
Max.	1.20	0.60	4.92	123	207	81	159	4.28	1.32	0.52	0.30	0.26
Min.	0.085	0.16	0.32	0.28	31	8.80	5.56	1.32	0.54	0.24	0.17	0.10
Runoff - mcm.	0.686	0.787	3.706	72.141	187.747	96.647	134.616	5.305	2.348	0.990	0.500	0.448

WATER YEAR 1972 : Max. 207 Min. 0.085 Mean 16.0 Annual Runoff 505.924 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.9	24.00	7.06	223				

MUN RIVER BASIN

Lam Se Bai at Phawaphutanon Bridge, Yasothon (M.32)

Location: Lat. 15°-50'-20" N., Long. 104°-27'-35" E., on right bank about 25 meters upstream from Phawaphutanon Bridge at Tambon Pho Trai, Amphoe Kham 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. Lam Sae

Location: on right bank near gage site.
Elevation: + 128.102 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954-1962, 1965 to date.

Rating Operation:

Period of Rating: 1965-1973
Rated by Float: -
Rated by Current Meter: 1965-1973

Stability of Channel Regimes: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

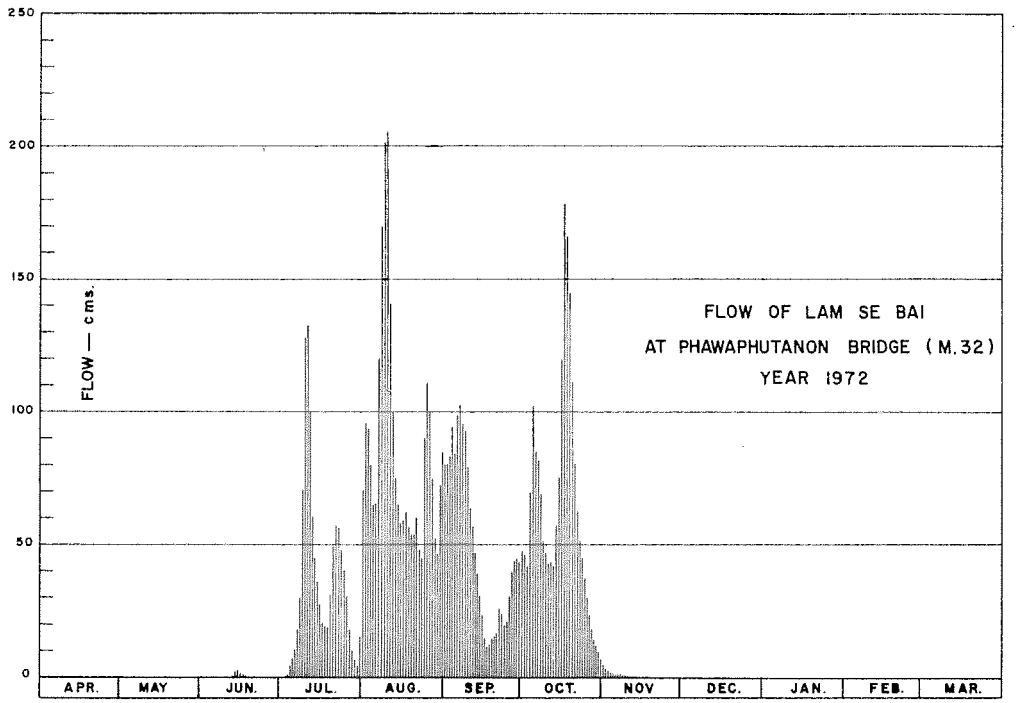
General Description: Records fair. Stage-discharge relation defined by 14 discharge measurements made in 1972.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	120.47	120.52	120.52	120.72	124.31	124.34	123.66	121.57	120.62	120.47	120.40	120.40
2	.47	.52	.50	.70	.58	.35	.58	.47	.61	.46	.40	.40
3	.47	.51	.50	.72	.56	.39	.46	.34	.60	.46	.40	.40
4	.46	.49	.51	121.16	.26	.56	124.27	.23	.59	.46	.40	.41
5	.45	.48	.58	.77	.06	.42	.66	.19	.58	.44	.40	.41
6	120.45	120.48	120.60	121.92	124.06	124.61	124.44	121.15	120.56	120.44	120.40	120.41
7	.45	.47	.64	122.28	.85	.67	.37	.11	.55	.43	.40	.41
8	.45	.46	.69	.87	125.35	.58	.10	.07	.54	.43	.40	.41
9	.45	.45	.79	124.05	.62	.54	123.72	.05	.54	.42	.40	.41
10	.44	.44	.81	.95	.66	.35	.61	.00	.54	.42	.40	.41
11	120.44	120.44	120.77	125.00	125.31	124.04	123.50	120.96	120.53	120.42	120.40	120.40
12	.44	.44	.73	124.48	124.74	123.79	.53	.94	.53	.42	.39	.40
13	.44	.44	121.19	123.81	.31	.55	.47	.91	.53	.42	.39	.40
14	.44	.44	.50	.46	.08	.24	.89	.89	.53	.42	.39	.40
15	.43	.43	.32	.17	123.89	122.85	124.41	.87	.51	.42	.39	.40
16	120.43	120.43	121.25	122.86	123.91	122.46	125.06	120.86	120.51	120.43	120.39	120.40
17	.43	.43	.28	.62	.98	.16	.43	.86	.51	.43	.39	.40
18	.43	.43	.06	.55	.95	.06	.34	.85	.50	.43	.39	.40
19	.43	.43	120.96	.65	.80	.27	.07	.84	.50	.43	.39	.40
20	.42	.43	.95	123.18	.81	.31	124.72	.82	.50	.44	.39	.40
21	120.41	120.44	121.00	123.70	123.95	122.45	124.29	120.79	120.49	120.44	120.39	120.40
22	.40	.45	120.92	.88	.75	.88	123.98	.75	.49	.44	.38	.40
23	.40	.46	.81	.85	.57	.81	.73	.72	.49	.44	.38	.41
24	.40	.46	.74	.66	124.31	.60	.51	.71	.50	.44	.38	.40
25	.40	.46	.71	.37	.76	.65	.25	.68	.49	.43	.38	.39
26	120.42	120.48	120.81	122.95	124.71	123.10	122.84	120.67	120.49	120.43	120.40	120.38
27	.49	.47	.85	.46	.26	.41	.67	.66	.48	.42	.40	.38
28	.51	.47	.80	.03	123.89	.53	.38	.65	.48	.42	.40	.38
29	.53	.47	.75	121.74	.63	.55	.12	.64	.47	.41	-	.38
30	.53	.46	.70	.57	124.16	.54	121.96	.63	.47	.41	-	.38
31	-	.48	-	122.41	.43	-	.72	-	.47	.40	-	.38
Mean	120.44	120.46	120.84	122.46	124.33	120.20	123.75	120.92	120.52	120.43	120.40	120.40
Max.	120.53	120.52	121.50	125.00	125.66	124.67	125.43	121.57	120.62	120.47	120.40	120.41
Min.	120.40	120.43	120.50	120.70	123.63	122.06	121.72	120.63	120.47	120.40	120.38	130.38

WATER YEAR 1972 : Max. 125.66 m. Min. 120.38 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	0.14	78	80	48	4.34	0.02	0.00	0.00	0.00
2			0.00	0.10	96	80	46	3.26	0.01			
3			0.00	0.12	94	83	42	2.28	0.00			
4			0.00	1.34	75	94	76	1.65	0.00			
5			0.00	6.91	65	84	102	1.46				
6			0.00	8.88	65	98	86	1.30				
7			0.04	14	118	103	82	1.14				
8			0.09	25	165	96	67	1.01				
9			0.28	65	200	93	51	0.95				
10			0.32	128	205	80	47	0.80				
11			0.24	132	164	64	43	0.68				
12			0.16	89	109	54	44	0.62				
13			1.46	54	78	45	42	0.53				
14			3.50	42	66	35	59	0.48				
15			2.14	33	58	25	84	0.44				
16			1.75	25	59	17	138	0.42				
17			1.90	20	62	12	178	0.42				
18			0.98	19	60	11	167	0.40				
19			0.68	21	54	14	139	0.38				
20			0.65	33	54	15	107	0.34				
21			0.80	50	60	17	77	0.28				
22			0.56	58	52	26	62	0.20				
23			0.32	57	45	24	51	0.14				
24			0.18	48	78	20	43	0.12				
25			0.12	39	111	21	36	0.08				
26			0.32	27	106	31	25	0.07				
27			0.40	17	75	40	21	0.06				
28			0.30	10	58	44	16	0.05			0.00	
29			0.20	6.52	47	45	12	0.04			–	
30	0.00		0.10	4.34	70	44	9.44	0.03			–	
31	–	0.00	–	17	85	–	6.26	–	0.00	0.00	–	0.00
Total	0.00	0.00	17.49	1,051.35	2,712	1,495	2,006.70	23.97	0.03	0.00	0.00	0.00
Mean	0.00	0.00	0.58	33.9	87.5	49.8	64.7	0.79	0.00	0.00	0.00	0.00
Max.	0.00	0.00	3.50	132	205	103	178	4.34	0.02	0.00	0.00	0.00
Min.	0.00	0.00	0.00	0.10	47	11	6.26	0.03	0.00	0.00	0.00	0.00
Runoff - mcm.	0.000	0.000	1.511	90.837	234.317	168	173.378	2.071	0.003	0.000	0.000	0.000

WATER YEAR 1972 : Max. 205 Min. 0.00 Mean 20.0 Annual Runoff 631.285 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 10, 72	0.03	125.72	212				

MUN RIVER BASIN

Lam Phra Phloeng at Ban Bu Hua Chang, Nakhon Ratchasima (M33)

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: 1955-1973

Rating Operation:

Period of Rating: 1955-1965, 1969-1973.
Rated by Float: -
Rated by Current Meter: 1955-1965, 1969-1973.

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

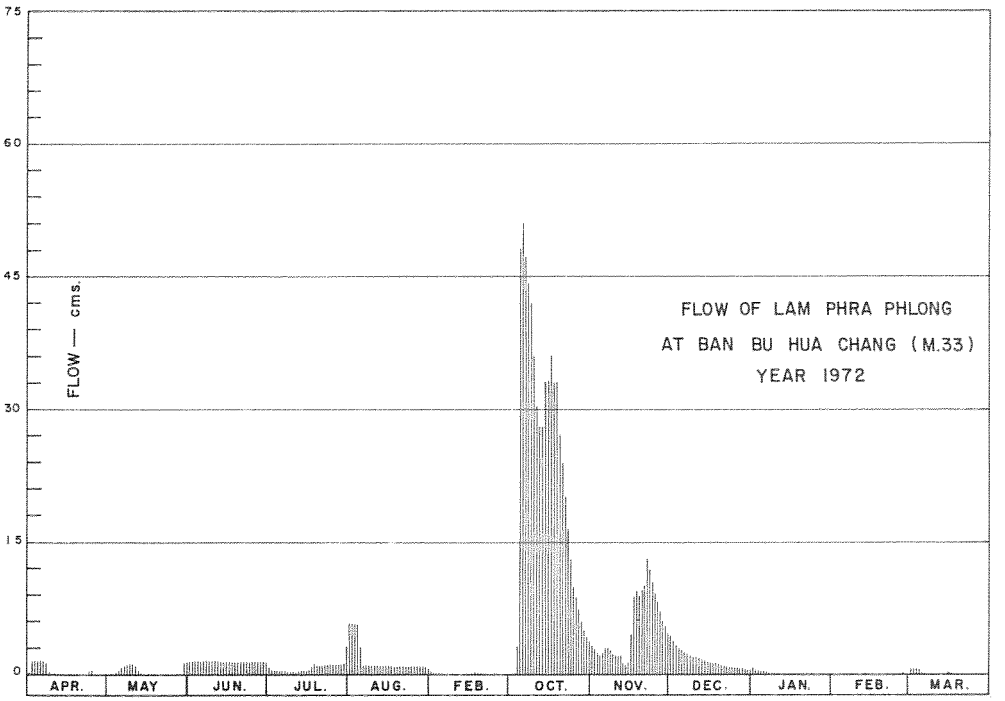
Overbank F Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 77 discharge measurements made in 1972. Flow completely regulated by Lam Phra Phloeng reservoir diversion for irrigation of about 9,120 hectares.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.38	1.10	1.63	1.47	2.14	1.35	1.06	1.94	2.06	1.41	1.02	1.42
2	.64	.11	.65	.40	.14	.24	.06	.89	.00	.39	.02	.42
3	.64	.11	.64	.39	.14	.24	.06	.83	1.95	.35	.02	.43
4	.64	.18	.63	.39	.14	.24	2.02	.77	.90	.34	.01	.43
5	.64	.49	.64	.39	1.83	.26	6.17	.81	.86	.35	.01	.19
6	1.64	1.51	1.64	1.39	1.12	1.19	6.40	1.90	1.83	1.32	1.01	1.03
7	.64	.52	.64	.39	.14	.07	.10	.91	.81	.29	.02	.02
8	.50	.53	.64	.39	.11	.07	5.88	.87	.77	.26	.02	.02
9	.12	.55	.64	.39	.07	.08	.73	.81	.75	.26	.03	.02
10	.11	.54	.64	.39	.34	.06	.33	.77	.75	.23	.03	.02
11	1.12	1.54	1.64	1.39	1.53	1.06	4.91	1.75	1.73	1.17	1.03	1.02
12	.10	.43	.64	.39	.53	.05	.60	.69	.70	.11	.03	.02
13	.10	.09	.64	.39	.53	.05	.66	.62	.67	.11	.03	.03
14	.10	.08	.64	.39	.53	.05	5.06	.56	.65	.15	.03	.03
15	.10	.08	.63	.39	.53	.05	.04	.61	.63	.16	.03	.03
16	1.10	1.09	1.63	1.39	1.53	1.03	5.29	2.21	1.61	1.12	1.03	1.03
17	.10	.08	.62	.49	.53	.05	.08	.57	.61	.12	.03	.03
18	.10	.08	.62	.57	.53	.30	.05	.66	.60	.10	.04	.03
19	.10	.08	.62	.56	.53	.25	4.79	.59	.58	.11	.03	.03
20	.09	.10	.62	.56	.53	.15	.54	.57	.56	.09	.03	.03
21	1.09	1.09	1.62	1.56	1.53	1.11	4.25	2.73	1.54	1.18	1.03	1.03
22	.10	.08	.62	.55	.53	.09	3.84	3.12	.52	.07	.03	.03
23	.27	.08	.62	.56	.52	.10	.43	.06	.51	.07	.03	.03
24	.38	.09	.62	.57	.52	.08	.08	2.89	.50	.08	.03	.06
25	.38	.09	.62	.57	.51	.07	2.78	.70	.49	.05	.03	.05
26	1.22	1.10	1.62	1.57	1.51	1.08	2.58	2.51	1.48	1.04	1.03	1.03
27	.10	.11	.62	.57	.51	.06	.43	.43	.46	.03	.03	.03
28	.10	.11	.62	.57	.51	.06	.32	.34	.45	.02	.28	.03
29	.10	.28	.62	.57	.51	.06	.22	.25	.44	.02	-	.03
30	.10	.62	.62	.57	.50	.06	.11	.15	.41	.02	-	.03
31	-	.63	-	.94	.50	-	.02	-	.39	.02	-	.03
Mean	1.26	1.25	1.58	1.48	1.55	1.12	3.90	2.18	1.65	1.16	1.03	1.07
Max.	1.64	1.63	1.65	1.94	2.14	1.35	6.40	3.12	2.06	1.41	1.28	1.43
Min.	1.09	1.08	1.62	1.39	1.07	1.03	1.06	1.56	1.39	1.02	1.01	1.02

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



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.50	0.050	1.485	0.795	5.72	0.425	0.030	3.28	4.12	0.858	0.010	0.620
2	1.53	0.060	1.575	0.550	5.72	0.210	0.030	2.93	3.70	0.525	0.010	0.620
3	1.53	0.060	1.530	0.525	5.72	0.210	0.030	2.51	3.35	0.425	0.010	0.655
4	1.53	0.130	1.485	0.525	5.72	0.210	3.84	2.15	3.00	0.400	0.005	0.655
5	1.53	0.865	1.530	0.525	2.51	0.240	48	2.37	2.72	0.425	0.005	0.140
6	1.53	0.945	1.530	0.525	0.070	0.140	51	3.00	2.51	0.350	0.005	0.015
7	1.53	0.990	1.530	0.525	0.090	0.035	47	3.07	2.37	0.285	0.010	0.010
8	0.90	1.035	1.530	0.525	0.060	0.035	44	2.79	2.15	0.240	0.010	0.010
9	0.07	1.125	1.530	0.525	0.035	0.040	42	2.37	2.05	0.240	0.015	0.010
10	0.06	1.080	1.530	0.525	0.400	0.030	36	2.15	2.05	0.195	0.015	0.010
11	0.07	1.080	1.530	0.525	1.035	0.030	31	2.05	1.95	0.120	0.015	0.010
12	0.05	0.655	1.530	0.525	1.035	0.025	28	2.25	1.80	0.060	0.015	0.010
13	0.05	0.045	1.530	0.525	1.035	0.025	28	1.44	1.66	0.060	0.015	0.015
14	0.05	0.040	1.530	0.525	1.035	0.025	33	1.17	1.57	0.100	0.015	0.015
15	0.05	0.040	1.485	0.525	1.035	0.025	33	1.39	1.48	0.110	0.015	0.015
16	0.05	0.045	1.485	0.525	1.035	0.015	36	5.29	1.39	0.070	0.015	0.015
17	0.05	0.040	1.440	0.865	1.035	0.025	33	8.69	1.39	0.070	0.015	0.015
18	0.05	0.040	1.440	1.215	1.035	0.300	33	9.32	1.35	0.050	0.020	0.015
19	0.05	0.040	1.440	1.170	1.035	0.225	30	8.83	1.26	0.060	0.015	0.015
20	0.045	0.050	1.440	1.170	1.035	0.100	27	9.39	1.17	0.045	0.015	0.015
21	0.045	0.045	1.440	1.170	1.035	0.060	24	9.84	1.08	0.130	0.015	0.015
22	0.05	0.040	1.440	1.125	1.035	0.045	20	13	0.990	0.035	0.015	0.015
23	0.255	0.040	1.440	1.170	0.990	0.050	16	12	0.945	0.035	0.015	0.015
24	0.500	0.045	1.440	1.215	0.990	0.040	13	11	0.900	0.040	0.015	0.030
25	0.500	0.045	1.440	1.215	0.945	0.035	10	9.60	0.865	0.025	0.015	0.025
26	0.180	0.050	1.440	1.215	0.945	0.040	8.76	8.27	0.830	0.020	0.015	0.015
27	0.050	0.060	1.440	1.215	0.945	0.030	7.36	7.36	0.760	0.015	0.015	0.015
28	0.050	0.060	1.440	1.215	0.945	0.030	6.12	6.14	0.725	0.010	0.270	0.015
29	0.050	0.270	1.440	1.215	0.945	0.030	5.38	5.65	0.690	0.010	–	0.015
30	0.050	1.440	1.440	1.215	0.900	0.030	4.48	4.80	0.585	0.010	–	0.015
31	–	1.485	–	3.48	0.900	–	3.84	–	0.525	0.010	–	0.015
Total	12.955	11.99	44.50	28.36	46.97	2.76	702.87	164.10	51.96	5.028	0.625	3.075
Mean	0.432	0.386	1.48	0.915	1.51	0.092	22.7	5.50	1.68	0.162	0.022	0.099
Max.	1.53	1.485	1.575	3.28	5.72	0.425	51	13	4.12	0.858	0.270	0.655
Min.	0.045	0.040	1.440	0.525	0.035	0.015	0.030	1.17	0.525	0.010	0.005	0.010
Runoff – mcm.	1.119	1.036	3.845	2.450	4.058	0.238	60.728	14.178	4.489	0.434	0.054	0.266

WATER YEAR 1972 : Max. 51 Min. 0.005 Mean 2.94 Annual Runoff 92.897 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.6	01.00	6.66	55				

MUN RIVER BASIN

Lam Sieo Noi at Tambon Sung Yang, Roi Et. (M35)

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 right bank at abutment of the bridge.
Elevation: + 4.786 m. (A.D.)

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

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

Period of Available Gage Records: 1971 to date.

Rating Operation:

Period of Rating: 1971-1974
Rated by Float: -
Rated by Current Meter: 1971-1974

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

Overbank Flow Conditions: No overbank flow.

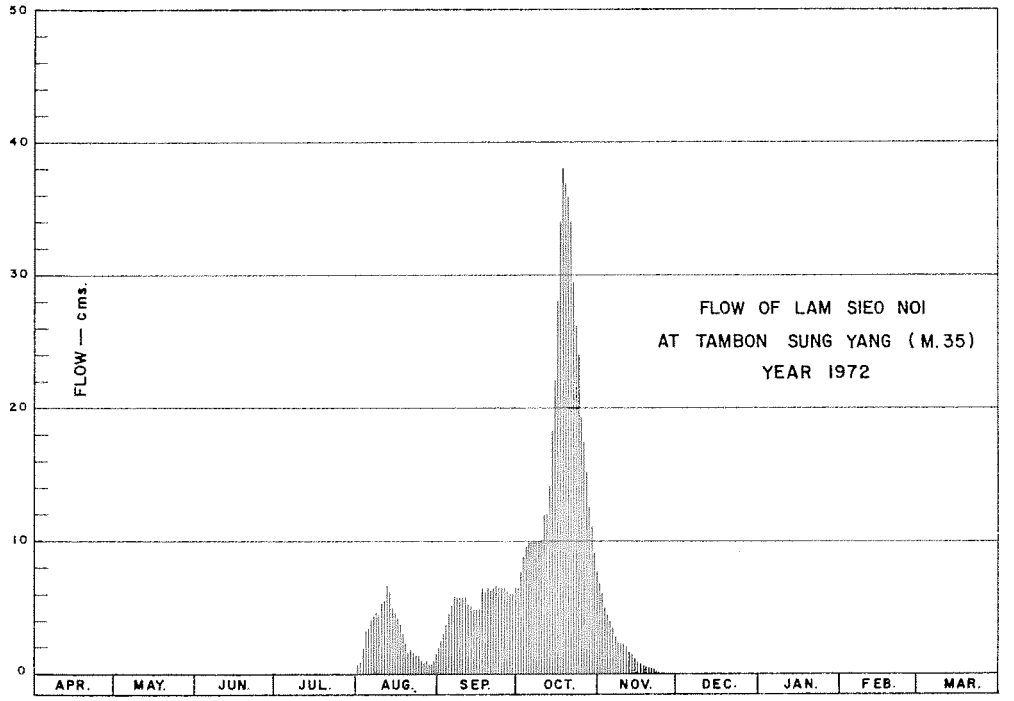
General Description: Records good. Stage-discharge relation defined by 25 discharge measurements made in 1972.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	0.68	0.48	0.97	1.57	1.66	1.88	1.90	1.44	1.19	1.01	0.81
2	.80	.67	.47	.98	.59	.69	.92	.87	.43	.18	.00	.80
3	.79	.66	.46	.98	.65	.72	.95	.82	.41	.17	0.99	.80
4	.79	.65	.45	.97	.73	.76	.97	.79	.40	.17	.98	.79
5	.78	.63	.85	.95	.74	.80	.99	.78	.39	.16	.98	.79
6	0.77	0.62	0.86	0.94	1.77	1.83	2.00	1.75	1.38	1.16	0.97	0.78
7	.76	.61	.87	.95	.79	.85	.00	.72	.37	.15	.97	.78
8	.76	.60	.88	.96	.80	.85	.00	.69	.35	.15	.97	.77
9	.77	.59	.90	1.03	.81	.85	.00	.68	.33	.14	.96	.76
10	.77	.58	.91	.03	.83	.85	.00	.67	.33	.14	.95	.75
11	0.77	0.57	0.91	1.02	1.84	1.85	2.04	1.67	1.31	1.13	0.94	0.75
12	.77	.56	.90	.01	.89	.83	.04	.65	.30	.13	.93	.74
13	.77	.55	.90	.00	.87	.82	.09	.63	.29	.12	.93	.74
14	.77	.55	.89	.00	.82	.81	.15	.61	.28	.11	.92	.73
15	.76	.54	.89	.00	.80	.81	.18	.60	.27	.10	.92	.73
16	0.75	0.54	0.89	1.05	1.78	1.79	2.27	1.59	1.26	1.09	0.91	0.72
17	.75	.53	.88	.14	.77	.79	.32	.58	.25	.09	.90	.72
18	.74	.53	.88	.13	.73	.88	.37	.57	.24	.09	.89	.72
19	.73	.52	.88	.13	.70	.86	.36	.56	.23	.09	.88	.72
20	.73	.53	.89	.14	.68	.88	.35	.55	.23	.08	.88	.71
21	0.73	0.55	0.89	1.15	1.65	1.87	2.34	1.55	1.22	1.08	0.87	0.70
22	.72	.54	.89	.16	.63	.88	.30	.54	.22	.08	.87	.69
23	.72	.53	.88	.17	.62	.89	.28	.53	.22	.08	.86	.69
24	.72	.52	.90	.18	.62	.88	.24	.52	.22	.07	.85	.68
25	.71	.51	.91	.19	.60	.88	.19	.51	.21	.06	.84	.67
26	0.71	0.50	0.91	1.22	1.58	1.88	2.15	1.50	1.21	1.05	0.83	0.66
27	.70	.49	.90	.24	.59	.87	.11	.48	.21	.04	.82	.66
28	.70	.48	.90	.25	.58	.86	.06	.46	.20	.04	.81	.65
29	.69	.47	.90	.26	.57	.86	.01	.45	.20	.03	-	.65
30	.68	.47	.90	.32	.59	.88	1.97	.45	.20	.02	-	.64
31	-	.46	-	.50	.62	-	.94	-	.19	.01	-	.63
Mean	0.75	0.55	0.83	1.10	1.70	1.83	2.11	1.62	1.28	1.10	0.91	0.72
Max.	0.80	0.68	0.91	1.50	1.89	1.89	2.37	1.90	1.44	1.19	1.01	0.81
Min.	0.68	0.46	0.45	0.94	1.57	1.66	1.88	1.45	1.19	1.01	0.81	0.63

WATER YEAR 1973 : Max. 2.37 m. Min. 0.63 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	0.00	0.77	2.06	6.52	7.00	0.00	0.00	0.00	0.00
2					0.99	2.54	7.66	6.28				
3					1.90	3.08	8.65	5.08				
4					3.27	3.84	9.31	4.41				
5					3.46	4.60	9.97	4.22				
6					4.03	5.32	10	3.65				
7					4.41	5.80	10	3.08				
8					4.60	5.80	10	2.54				
9					4.48	5.80	10	2.38				
10					5.32	5.80	10	2.22				
11					5.56	5.80	12	2.22				
12					6.76	5.32	12	1.90				
13					6.28	5.08	14	1.58				
14					5.08	4.84	18	1.56				
15					4.60	4.84	20	1.10				
16					4.22	3.84	27	0.99				
17					4.03	3.84	32	0.88				
18					3.27	6.52	38	0.77				
19					2.70	6.04	37	0.66				
20					2.38	6.52	36	0.55				
21					1.90	6.28	35	0.55				
22					1.58	6.52	30	0.44				
23					1.42	6.76	28	0.33				
24					1.42	6.52	25	0.22				
25					1.10	6.52	20	0.11				
26					0.88	6.52	18	0.00				
27					0.99	6.28	16	0.00				
28					0.88	6.04	13	0.00			0.00	
29					0.77	6.04	11	0.00			–	
30	0.00		0.00		0.99	6.52	9.31	0.00			–	
31	–	0.00	–	0.00	1.42	–	8.32	0.00	0.00	0.00	–	0.00
Total	0.00	0.00	0.00	0.00	91.46	161.28	551.74	54.72	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	2.95	5.38	17	1.82	0.00	0.00	0.00	0.00
Max.	0.00	0.00	0.00	0.00	6.76	6.76	38	7.00	0.00	0.00	0.00	0.00
Min.	0.00	0.00	0.00	0.00	0.77	2.06	6.52	0.00	0.00	0.00	0.00	0.00
Runoff – MCM.	0.000	0.000	0.000	0.000	7.906	13.910	47.693	4.725	0.000	0.000	0.000	0.000

WATER YEAR 1972 : Max. 38 Min. 0.00 Mean 2.35 Annual Runoff 74.235 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 18	18.00	2.37	38				

MUN RIVER BASIN

Lam Takhong at Ban Khlong Phai, Nakhon Ratchasima (M38c)

Location: Lat. 14°-52'-06" N., Long. 101°-33'-53" E., on left bank about 500 meters downstream from Lam Takhong Damsite, 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 but periodic curves are used for flow computation.

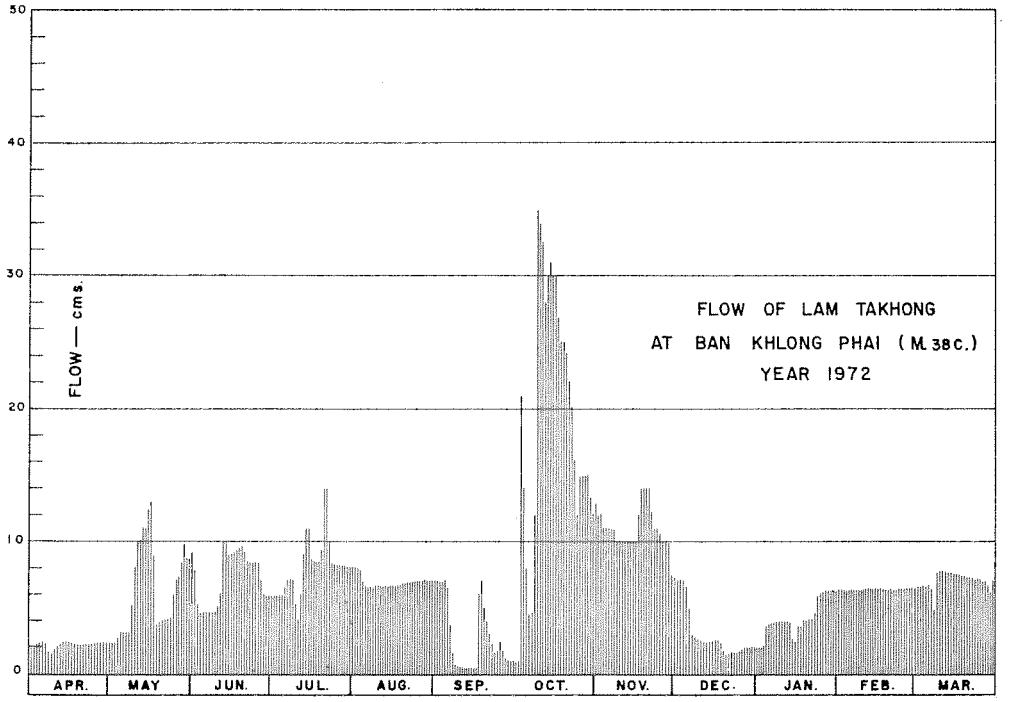
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 73 discharge measurements made in 1972. Flow regulated by Lam Takhong Dam diverted for irrigation of about 62,080 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	244.21	244.34	246.02	245.58	245.93	245.79	244.22	245.99	245.33	244.50	245.21	245.23
2	.24	.34	245.93	.58	.92	.79	.19	.89	.31	.48	.21	.23
3	.34	.34	.49	.59	.91	.79	.21	.86	.31	.49	.21	.24
4	.34	.39	.28	.60	.89	.78	246.68	.74	.31	.54	.21	.24
5	.35	.50	.26	.60	.73	.81	245.68	.73	.29	.81	.21	.25
6	244.34	244.51	245.28	245.69	245.71	245.67	245.19	245.73	245.17	244.84	245.21	245.25
7	.21	.51	.28	.79	.72	244.86	244.89	.73	244.71	.84	.21	.22
8	.14	.51	.29	.81	.71	.33	245.01	.73	.67	.85	.21	244.99
9	.13	.57	.29	.81	.72	.08	246.26	.72	.65	.85	.21	245.37
10	.25	245.25	.32	.56	.72	.04	247.47	.72	.62	.86	.21	.39
11	244.32	245.69	245.44	245.12	245.72	244.03	247.45	245.72	244.59	244.86	245.22	245.39
12	.33	.74	.66	.51	.72	.02	.31	.71	.59	.86	.22	.39
13	.36	.75	246.11	.92	.72	.01	.09	.71	.59	.86	.22	.39
14	.35	.80	.13	246.14	.72	243.99	.24	.71	.59	.86	.22	.38
15	.34	.92	.01	.16	.73	.98	.28	.71	.60	.57	.22	.38
16	244.34	246.12	246.02	245.98	245.73	243.98	247.25	245.71	244.61	244.60	245.22	245.37
17	.34	.08	.03	.97	.73	244.01	.22	.80	.60	.81	.22	.35
18	.32	245.75	.04	.96	.73	245.64	.06	246.06	.59	.80	.22	.35
19	.30	244.97	.05	.96	.73	.80	246.91	.08	.45	.87	.21	.35
20	.30	245.09	.08	246.04	.76	.37	.90	.08	.36	.89	.21	.35
21	244.31	245.13	246.03	246.26	245.76	245.02	246.88	246.07	244.37	244.89	245.21	245.34
22	.32	.14	245.97	.26	.77	244.68	.74	.03	.38	.89	.21	.33
23	.32	.16	.95	.09	.79	.46	.60	245.75	.41	.94	.21	.32
24	.32	.17	.95	245.95	.79	.37	.26	.74	.41	245.15	.22	.31
25	.32	.35	.96	.95	.79	.45	245.90	.73	.40	.17	.22	.31
26	244.34	245.80	245.94	245.94	245.79	244.59	246.19	245.72	244.45	245.18	245.22	245.30
27	.34	.83	.80	.94	.79	.41	.18	.72	.48	.19	.22	.30
28	.35	.93	.60	.93	.79	.27	.17	.71	.48	.19	.22	.29
29	.34	246.07	.59	.92	.79	.22	.16	.63	.49	.20		.18
30	.35	245.98	.59	.92	.79	.21	245.95	.36	.50	.20		.29
31		.98		.92	.79		.91		.50	.21		.30
Mean	244.30	245.28	245.75	245.85	245.77	244.71	246.27	245.79	244.67	244.88	245.21	245.30
Max.	244.36	246.12	246.13	246.26	245.93	245.81	247.47	246.08	245.33	245.21	245.22	245.39
Min.	244.13	244.34	245.26	245.12	245.71	243.98	244.19	245.36	244.36	244.48	245.21	245.18

WATER YEAR 1972 : Max. 247.47 m. Min. 243.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.86	2.38	9.06	5.89	8.18	7.04	1.06	13	7.29	2.08	6.39	6.54
2	1.97	2.38	8.18	5.89	8.08	7.04	0.97	12	7.14	2.00	6.39	6.54
3	2.38	2.38	5.48	5.93	7.99	7.04	1.03	12	7.14	2.04	6.39	6.62
4	2.38	2.60	4.64	5.98	7.82	6.98	21	11	7.14	2.27	6.39	6.62
5	2.42	3.12	4.57	5.98	6.68	7.18	10	11	6.99	3.70	6.39	6.69
6	2.38	3.17	4.64	6.45	6.56	6.34	6.25	11	6.10	3.88	6.39	6.69
7	1.86	3.17	4.64	7.04	6.62	3.25	4.18	11	3.14	3.88	6.39	6.47
8	1.60	3.17	4.68	7.18	6.56	1.43	4.97	11	2.92	3.94	6.39	4.83
9	1.57	3.48	4.68	7.18	6.62	0.68	16	10	2.82	3.94	6.39	7.61
10	2.01	7.40	4.80	5.80	6.62	0.60	35	10	2.66	4.00	6.39	7.76
11	2.29	10	5.27	4.07	6.62	0.58	34	10	2.51	4.00	6.47	7.76
12	2.33	10	6.29	5.57	6.62	0.56	32	10	2.51	4.00	6.47	7.76
13	2.46	11	10	8.08	6.62	0.54	28	10	2.51	4.00	6.47	7.76
14	2.42	11	10	11	6.62	0.50	30	10	2.51	4.00	6.47	7.76
15	2.38	12	8.94	11	6.68	0.48	31	10	2.56	2.42	6.47	7.68
16	2.38	13	9.06	8.64	6.68	0.48	30	10	2.61	2.56	6.47	7.61
17	2.38	9.78	9.18	8.54	6.68	0.54	30	11	2.56	3.70	6.47	7.45
18	2.29	6.80	9.30	8.45	6.68	6.19	27	14	2.51	3.64	6.47	7.45
19	2.20	3.58	9.42	8.45	6.68	7.10	25	14	1.88	4.06	6.39	7.45
20	2.20	3.97	9.78	9.30	6.86	4.99	25	14	1.54	4.18	6.39	7.45
21	2.24	4.10	9.18	14	6.86	3.74	24	14	1.57	4.18	6.39	7.37
22	2.29	4.14	8.54	14	6.92	2.74	22	13	1.61	4.18	6.39	7.29
23	2.29	4.20	8.36	9.90	7.04	1.92	20	11	1.72	4.50	6.39	7.22
24	2.29	4.24	8.36	8.36	7.04	1.57	16	11	1.72	5.96	6.47	7.14
25	2.29	4.91	8.45	8.36	7.04	1.88	12	11	1.68	6.10	6.47	7.14
26	2.38	7.10	8.27	8.27	7.04	2.49	15	10	1.88	6.18	6.47	7.06
27	2.38	7.34	7.10	8.27	7.04	1.72	15	10	2.00	6.25	6.47	7.06
28	2.42	8.18	5.98	8.18	7.04	1.22	15	10	2.00	6.25	6.47	6.99
29	2.38	9.66	5.93	8.08	7.04	1.06	15	9.74	2.04	6.32		6.18
30	2.42	8.64	5.93	8.08	7.04	1.03	13	7.53	2.08	6.32		6.99
31		8.64		8.08	7.04		12		2.08	6.39		7.06
Total	67.14	195.53	218.71	250.00	215.61	88.91	571.46	332.27	97.42	130.92	179.96	219.92
Mean	2.24	6.31	7.29	8.06	6.95	2.96	18.4	11.1	3.14	4.22	6.43	7.09
Max.	2.46	13	10	14	8.18	7.18	35	14	7.29	6.39	6.47	7.76
Min.	1.57	2.38	4.57	4.07	6.56	0.48	0.97	7.53	1.54	2.00	6.39	6.18
Runoff - MCM.	5.801	16.894	18.896	21.600	18.629	7.682	49.374	28.708	8.417	11.311	15.548	19.001

WATER YEAR 1972 : Max. 35 Min. 0.48 Mean 7.03 Annual Runoff 221.862 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.4	05.00	248.04	48				

MUN RIVER BASIN

Lam Sieo Yai at Tambon Kaset Wisai, Roi Et. (M41)

Location: Lat. 15°-38'-46" N., Long. 103°-33'-55" E., on left bank at Tambon Kaset Wisai, Amphoe Kaset Wisai, Roi Et.

Drainage Area: 1,310 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 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: 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: 1971-1974
Rated by Float: -
Rated by Current Meter: 1971-1974

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

Overbank Flow Conditions: No overbank flow.

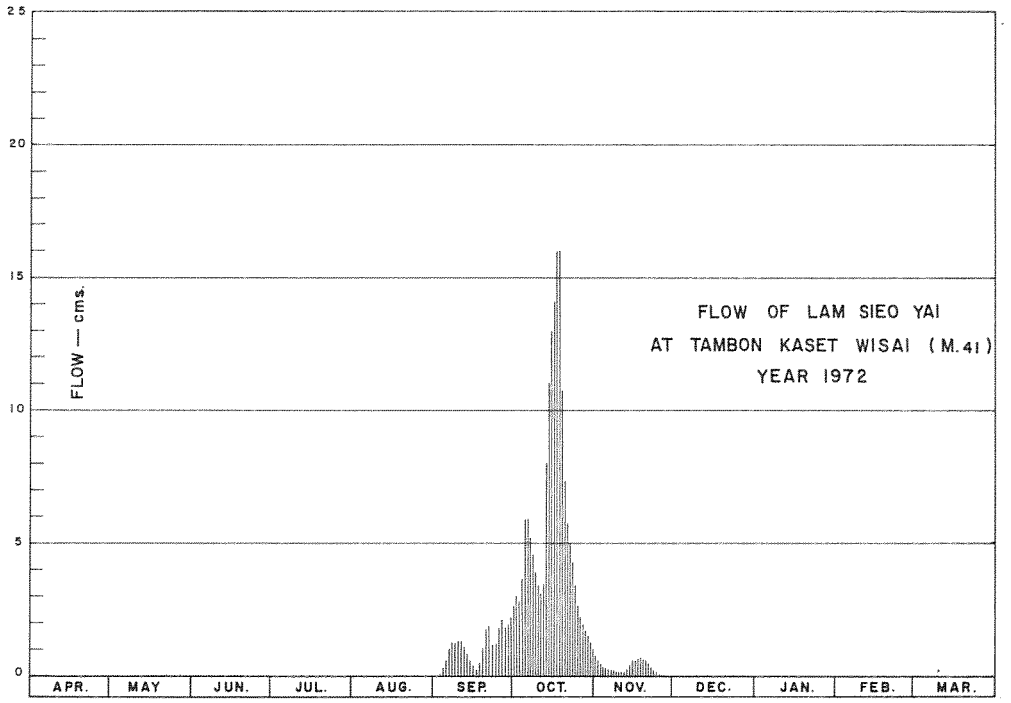
General Description: Records fair. Stage-discharge relation defined by 40 discharge measurements made in 1972.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.96	0.92	0.78	1.09	1.37	1.50	2.15	1.88	1.51	1.27	1.10	0.96
2	.96	.91	.78	.12	.42	.56	.18	.84	.49	.26	.09	.96
3	.96	.90	.80	.13	.42	.62	.16	.82	.46	.25	.09	.95
4	.95	.90	.83	.13	.41	.74	.25	.79	.44	.24	.08	.95
5	.95	.89	.87	.13	.40	.82	.37	.78	.42	.24	.08	.95
6	0.95	0.88	0.88	1.16	1.41	1.90	2.37	1.76	1.40	1.24	1.07	0.94
7	.94	.87	.91	.19	.42	.96	.34	.74	.38	.23	.07	.93
8	.93	.86	.98	.21	.42	.97	.30	.74	.36	.22	.06	.92
9	.92	.86	1.02	.22	.41	.96	.26	.72	.35	.21	.06	.92
10	.92	.85	.05	.23	.41	.98	.22	.71	.33	.21	.05	.92
11	0.91	0.84	1.05	1.22	1.41	1.97	2.19	1.69	1.32	1.20	1.05	0.92
12	.91	.83	.11	.22	.40	.94	.22	.68	.31	.19	.04	.91
13	.91	.82	.14	.21	.40	.90	.41	.73	.30	.18	.04	.91
14	.90	.81	.15	.21	.41	.86	.53	.80	.30	.18	.03	.90
15	.90	.81	.14	.20	.40	.82	.55	.84	.29	.17	.03	.89
16	0.94	0.81	1.14	1.22	1.39	1.78	2.58	1.84	1.29	1.17	1.03	0.88
17	.96	.83	.14	.23	.37	.75	.60	.85	.27	.17	.02	.88
18	.95	.83	.14	.23	.35	.84	.61	.86	.28	.17	.02	.87
19	.94	.82	.14	.22	.34	.95	.54	.85	.29	.16	.01	.87
20	.94	.82	.14	.22	.32	2.02	.46	.85	.29	.16	.01	.86
21	0.93	0.82	1.13	1.22	1.32	2.04	2.39	1.84	1.29	1.16	1.00	0.86
22	.93	.81	.12	.21	.33	.01	.34	.80	.28	.15	.00	.85
23	.94	.81	.10	.20	.35	1.95	.30	.75	.28	.14	.00	.85
24	.96	.80	.10	.19	.33	.95	.23	.71	.28	.14	0.99	.84
25	.95	.79	.10	.19	.31	2.04	.16	.68	.28	.14	.99	.85
26	0.94	0.78	1.10	1.18	1.31	2.08	2.10	1.66	1.28	1.13	0.98	0.84
27	.93	.77	.10	.18	.30	.07	.07	.64	.28	.13	.98	.84
28	.93	.76	.09	.17	.29	.04	.04	.61	.28	.11	.97	.83
29	.92	.74	.08	.22	.30	.06	.02	.56	.28	.11	-	.83
30	.92	.76	.07	.24	.37	.09	1.97	.54	.27	.10	-	.83
31	-	.77	-	.33	.47	-	.92	-	.27	.10	-	.82
Mean	0.93	0.83	1.04	1.20	1.37	1.90	2.29	1.75	1.33	1.18	1.03	0.89
Max.	0.96	0.92	1.15	1.33	1.47	2.09	2.61	1.88	1.51	1.27	1.10	0.96
Min.	0.90	0.74	0.78	1.09	1.29	1.50	1.92	1.54	1.27	1.10	0.97	0.82

WATER YEAR 1972 : Max. 2.61 m. Min. 0.74 m.



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

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	0.00	0.00	0.00	2.75	0.80	0.00	0.00	0.00	0.00
2						0.00	3.02	0.60				
3						0.03	2.84	0.50				
4						0.25	3.90	0.37				
5						0.50	5.93	0.35				
6						0.90	5.93	0.30				
7						1.26	5.36	0.25				
8						1.32	4.60	0.25				
9						1.26	4.04	0.20				
10						1.38	3.48	0.17				
11						1.32	3.11	0.13				
12						1.14	3.48	0.12				
13						0.90	6.82	0.22				
14						0.70	11	0.40				
15						0.50	13	0.60				
16						0.35	14	0.60				
17						0.27	16	0.65				
18						0.60	16	0.70				
19						1.20	12	0.65				
20						1.66	8.42	0.65				
21						1.82	6.31	0.60				
22						1.58	5.36	0.40				
23						1.20	4.60	0.27				
24						1.20	3.62	0.17				
25						1.82	2.84	0.12				
26						2.14	2.30	0.09				
27						2.06	2.06	0.06				
28						1.82	1.82	0.01			0.00	
29						1.98	1.66	0.00			–	
30	0.00		0.00			2.22	1.32	0.00			–	
31	–	0.00	–	0.00	0.00	–	1.02	–	0.00	0.00	–	0.00
Total	0	0	0	0	0	33.38	178.59	10.23	0	0	0	0
Mean	0	0	0	0	0	1.11	5.76	0.34	0	0	0	0
Max.	0.00	0.00	0.00	0.00	0.00	2.22	16	0.80	0.00	0.00	0.00	0.00
Min.	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	0.00	0.00	0.00
Runoff – mcm.	0	0	0	0	0	2.884	15.430	0.884	0	0	0	0

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

Momentary Peak Discharge

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

MUN RIVER BASIN

Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M42)

Location: Lat. 15°-02'-42" N., Long. 104°-01'-29" E., on left bank at the pier of Huai Thap Than Bridge, Amphoe Uthumphon Phisai, Si Sa Ket.

Drainage Area: 1,794 Sq.km.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – H.S.

Location: on side walk at the middle of the bridge.
Elevation: + 11.581 m. (A.D.)

Gage Reading Frequency: 3-time daily readings at 07.00, 11.00, 17.00 hours on May – January and 07.00, 11.00, 14.00, 17.00 hours on July – March.

Basis of Mean Daily Gage Height: Arithmetic mean of 3-4 readings.

Period of Available Gage Records: 1972 to date.

Rating Operation:

Period of Rating: 1972 to date.
Rated by Float: –
Rated by Current Meter: 1972 to date.

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

Overbank Flow Conditions: Overbank flow starts at elevation + 7.95 m. (A.D.) and is included.

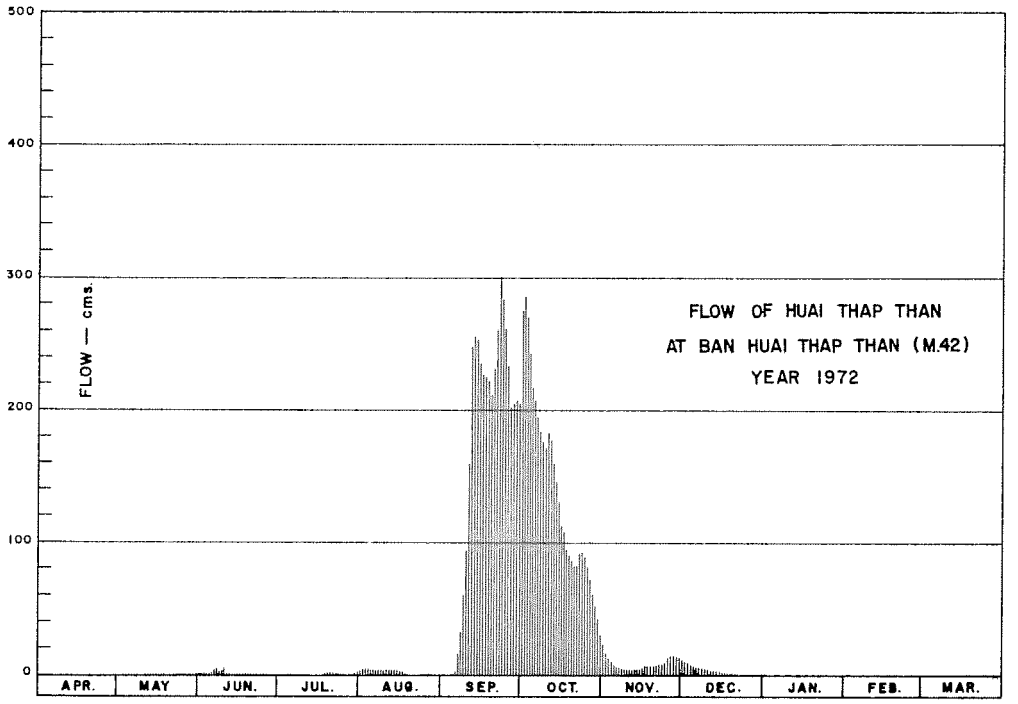
General Description: Records fair. Stage-discharge relation defined by 47 discharge measurements made in 1972.

Remarks: Stream gaging began on May 1, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.54	0.65	0.66	1.41	0.65	9.44	3.92	2.64	0.80	0.55	0.47
2		.48	.60	.67	.58	.67	.49	.26	.48	.79	.57	.50
3		.48	.76	.67	.59	.69	.43	2.71	.34	.74	.56	.49
4		.49	.87	.69	.55	.72	.29	.26	.21	.72	.55	.50
5		.54	.96	.68	.51	.80	.16	.03	.04	.71	.54	.51
6		0.50	1.00	0.66	1.44	1.50	9.09	1.81	1.92	0.68	0.54	0.49
7		.50	.50	.76	.48	2.72	.01	.73	.77	.67	.54	.49
8		.51	.33	.84	.41	4.42	8.95	.64	.72	.65	.53	.52
9		.51	.17	.91	.47	5.94	.91	.62	.69	.64	.54	.54
10		.49	.50	.91	.50	6.85	.86	.62	.59	.63	.53	.51
11		0.49	0.96	0.90	1.50	8.03	8.94	1.58	1.51	0.63	0.53	0.49
12		.50	.90	.85	.47	9.06	.90	.56	.45	.60	.52	.48
13		.49	.89	.76	.43	.15	.77	.57	.37	.62	.52	.49
14		.50	.77	.75	.44	.14	.61	.59	.31	.60	.51	.50
15		.49	.73	.70	.46	8.99	.45	.63	.25	.60	.47	.49
16		0.49	0.67	0.70	1.37	8.90	8.26	1.73	1.23	0.60	0.47	0.46
17		.49	.65	.73	.32	.88	.20	2.10	.20	.60	.47	.46
18		.59	.62	.92	.17	.86	7.94	1.98	.15	.63	.46	.49
19		.55	.62	1.03	.04	.83	.81	.94	.10	.60	.49	.51
20		.54	.65	.05	0.89	.74	.66	.93	.05	.60	.50	.50
21		0.54	0.59	1.04	0.83	9.00	7.57	1.95	1.04	0.59	0.50	0.50
22		.55	.58	.03	.75	.28	.64	2.02	.02	.58	.51	.48
23		.53	.56	0.95	.77	.55	.89	.10	0.99	.59	.52	.47
24		.51	.57	.88	.90	.46	.89	.20	.96	.51	.53	.50
25		.50	.65	.81	.84	.35	.77	.61	.94	.62	.52	.49
26		0.50	0.61	0.75	0.86	9.19	7.54	2.88	0.94	0.55	0.48	0.49
27		.54	.76	.75	.87	.06	.22	3.03	.93	.55	.45	.48
28		.54	.71	.73	.81	.07	6.78	2.92	.88	.55	.45	.48
29		.60	.63	.70	.79	.08	.19	.84	.85	.54	–	.48
30		.65	.61	.86	.68	.07	5.60	.79	.84	.54	–	.48
31		.66	–	1.20	.67	–	4.68	–	.82	.54	–	.48
Mean		0.52	0.80	0.82	1.19	6.85	8.13	2.18	1.39	0.62	0.51	0.49
Max.		0.66	1.50	1.20	1.59	9.55	9.49	3.92	2.64	0.80	0.57	0.54
Min.		0.48	0.56	0.66	0.67	0.65	4.68	1.56	0.82	0.51	0.45	0.46

WATER YEAR 1972 : Max. 9.55 m. Min. 0.45 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.32	0.65	0.68	4.17	0.65	274	24	13	1.10	0.35	0.14
2		0.16	0.50	0.71	5.36	0.71	285	18	12	1.07	0.41	0.20
3		0.16	0.98	0.71	5.43	0.77	272	13	11	0.92	0.38	0.18
4		0.18	1.38	0.77	5.15	0.86	243	10	10	0.86	0.35	0.20
5		0.32	1.80	0.74	4.87	1.10	219	8.51	8.00	0.83	0.32	0.23
6		0.20	2.00	0.68	4.38	4.80	207	6.97	7.74	0.74	0.32	0.18
7		0.20	4.80	0.98	4.66	15	194	6.41	6.69	0.71	0.32	0.18
8		0.23	3.68	1.26	4.17	37	184	5.78	6.34	0.65	0.29	0.26
9		0.23	2.85	1.55	4.59	65	178	5.64	6.13	0.62	0.32	0.32
10		0.18	4.80	1.55	4.80	89	172	5.64	5.43	0.59	0.29	0.23
11		0.18	1.80	1.50	4.80	148	183	5.36	4.87	0.59	0.29	0.18
12		0.20	1.50	1.30	4.59	245	177	5.22	4.45	0.50	0.26	0.16
13		0.18	1.46	0.98	4.31	254	160	5.29	3.85	0.56	0.26	0.18
14		0.20	1.01	0.95	4.38	253	142	4.43	3.55	0.50	0.23	0.20
15		0.18	0.89	0.80	4.52	237	126	5.71	3.25	0.50	0.14	0.18
16		0.18	0.71	0.80	3.92	227	112	6.41	3.15	0.50	0.14	0.12
17		0.18	0.65	0.89	3.62	225	108	9.00	3.00	0.50	0.14	0.12
18		0.47	0.56	1.60	2.85	223	95	8.16	2.75	0.59	0.12	0.18
19		0.35	0.56	2.15	2.20	220	89	7.88	2.50	0.50	0.18	0.23
20		0.32	0.65	2.25	1.46	211	84	7.81	2.25	0.50	0.20	0.20
21		0.32	0.47	2.20	1.22	238	81	7.88	2.20	0.47	0.20	0.20
22		0.35	0.44	2.15	0.95	270	83	8.44	2.10	0.44	0.23	0.16
23		0.29	0.38	1.75	1.01	299	93	9.00	1.95	0.47	0.26	0.14
24		0.23	0.41	1.42	1.50	278	93	9.70	1.80	0.23	0.29	0.20
25		0.20	0.65	1.14	1.26	255	88	12	1.70	0.56	0.26	0.18
26		0.20	0.53	0.95	1.34	224	80	15	1.70	0.35	0.16	0.18
27		0.32	0.98	0.95	1.38	202	71	16	1.65	0.35	0.10	0.16
28		0.32	0.83	0.89	1.14	204	61	15	1.42	0.35	0.10	0.16
29		0.50	0.59	0.80	1.07	206	51	14	1.30	0.32	–	0.16
30		0.65	0.53	1.34	0.74	204	42	14	1.26	0.32	–	0.16
31		0.68	–	3.00	0.71	–	31	–	1.18	0.32	–	0.16
Total		8.68	39.04	39.44	96.55	4,837.89	4,278.00	291.24	138.21	17.51	6.91	5.73
Mean		0.28	1.30	1.27	3.11	161	138	9.71	4.46	0.565	0.247	0.185
Max.		0.68	4.80	3.00	5.43	299	285	24	13	1.10	0.41	0.32
Min.		0.16	0.38	0.68	0.71	0.65	31	5.22	1.18	0.23	0.10	0.12
Runoff – mcm.		0.750	3.373	3.408	8.342	417.994	369.619	25.163	11.941	1.513	0.597	0.495

WATER YEAR 1972 : Max. 299 Min. 0.10 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.22,	17.00	9.59	308				

MUN RIVER BASIN

Lam Takhong at Khao Yai (Ban Mu Si), Nakhon Ratchasima (M43)

Location: Lat. 14°-31'-40" N., Long. 101°-24'-09" E., on left bank infront of highway maintenance office, Ban Mu Si, Amphoe Pak Chong, Nakhon Ratchasima.

Drainage Area: 235 Sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: near the ladder of automatic gage building.
Elevation: + 5.592 m. (A.D.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 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: Fairly stable by some silting, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

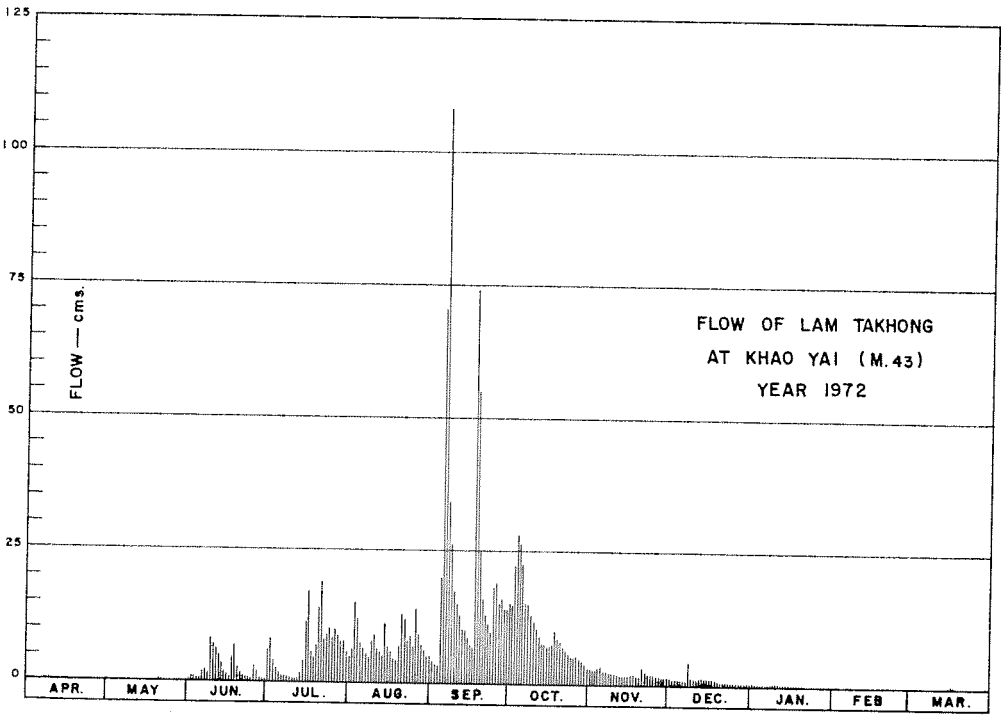
General Description: Records fair. Stage-discharge relation defined by 46 discharge measurement made in 1972.

Remarks: Asterisk (*) designated the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.43	0.46	0.56	1.03	0.96	0.96	1.44	0.82	0.68	0.57	0.50	0.44
2	.48	.45	.68	.14	1.05	.86	.42	.81	.67	.57	.50	.45
3	.47	.44	.63	0.89	.45	.86	.66	.82	.67	.57	.50	.45
4	.46	.43	.61	.81	.23	.84	.86	.87	.66	.57	.49	.45
5	.44	.43	.59	.72	.14	1.71	.79	.81	.66	.56	.49	.45
6	0.47	0.42	0.74	0.68	1.03	3.34	1.64	0.78	0.65	0.56	0.49	0.44
7	.55	.42	.78	.66	0.98	2.69	.44	.76	.65	.56	.49	.44
8	.50	.36	.71	.65	.94	.01	.43	.77	.93	.56	.49	.44
9	.55	.36	1.13	.62	1.10	1.78	.37	.77	.73	.55	.49	.45
10	.51	.36	.12	.59	.17	.52	.30	.77	.69	.55	.49	.45
11	0.49	0.35	1.05	0.59	1.04	1.44	1.25	0.74	0.67	0.55	0.49	0.45
12	.51	.35	.00	.60	.02	.34	.18	.73	.67	.55	.49	.45
13	.50	.32	0.86	.69	0.97	.23	.12	.72	.71	.55	.49	.46
14	.48	.32	.75	.85	1.27	.22	.11	.71	.61	.54	.49	.47
15	.47	.29	.69	1.08	.06	.16	.08	.73	.67	.54	.48	.47
16	0.46	0.28	0.66	1.49	1.06	1.09	1.08	0.74	0.67	0.53	0.47	0.48
17	.45	.28	.64	.02	0.98	.05	.11	.76	.67	.53	.47	.57
18	.45	.31	1.05	0.94	.91	2.60	.22	.72	.65	.53	.47	.52
19	.44	.37	0.79	1.04	.89	.57	.16	.71	.62	.53	.48	.51
20	.43	.45	.72	.40	1.05	1.70	.14	.84	.62	.52	.47	.49
21	0.43	0.58	0.66	1.57	1.35	1.48	1.09	0.83	0.62	0.52	0.47	0.49
22	.43	.54	.62	.13	.31	.35	.05	.76	.61	.51	.47	.48
23	.48	.50	.60	.17	.12	.25	.00	.74	.61	.51	.47	.46
24	.47	.48	.57	.24	.17	.20	0.97	.75	.61	.51	.46	.50
25	.54	.47	.56	.15	.05	.53	.96	.73	.60	.51	.46	.50
26	0.49	0.47	0.83	1.24	1.40	1.56	0.98	0.72	0.60	0.51	0.45	0.50
27	.57	.47	.66	.19	.19	.44	.96	.71	.60	.51	.45	.48
28	.53	.46	.58	.13	.09	.48	.93	.70	.59	.51	.45	.47
29	.50	.45	.56	.05	.05	.38	.89	.70	.59	.50	-	.46
30	.49	.45	.55	.10	0.95	.40	.87	.69	.58	.50	-	.46
31	-	.46	-	.00	.93	-	.83	-	.58	.50	-	.47
Mean	0.48	0.41	0.73	0.98	1.09	1.53	1.20	0.76	0.65	0.53	0.48	0.47
Max.	0.57	0.58	1.13	1.57	1.45	3.34	1.86	0.87	0.93	0.57	0.50	0.57
Min.	0.43	0.28	0.55	0.59	0.89	0.84	0.83	0.69	0.58	0.50	0.45	0.44

WATER YEAR 1972 : Max. 3.34 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.084	0.17	0.57	6.32	5.18	5.18	15	3.01	1.43	0.62	0.28	0.11
2	0.22	0.14	1.43	8.35	6.67	3.63	15	2.85	1.35	0.62	0.28	0.14
3	0.20	0.11	1.01	4.09	15	3.63	22	3.01	1.35	0.62	0.28	0.14
4	0.17	0.084	0.84	2.85	10	3.32	28	3.78	1.26	0.62	0.25	0.14
5	0.11	0.084	0.71	1.82	8.35	* 25	26	2.85	1.26	0.57	0.25	0.14
6	0.20	0.056	2.04	1.43	6.32	*108	21	2.48	1.18	0.57	0.25	0.11
7	0.52	0.056	2.48	1.26	5.49	* 68	15	2.26	1.18	0.57	0.25	0.11
8	0.28	0.00	1.71	1.18	4.87	* 34	15	2.37	4.71	0.57	0.25	0.11
9	0.52	0.00	8.15	0.93	7.54	* 26	13	2.37	1.93	0.52	0.25	0.14
10	0.33	0.00	7.94	0.71	8.95	17	12	2.37	1.52	0.52	0.25	0.14
11	0.25	0.00	6.67	0.71	6.50	15	11	2.04	1.35	0.52	0.25	0.14
12	0.33	0.00	5.80	0.76	6.15	13	9.16	1.93	1.35	0.52	0.25	0.14
13	0.28	0.00	3.63	1.52	5.33	10	7.94	1.82	1.71	0.52	0.25	0.17
14	0.22	0.00	2.15	3.47	11	10	7.74	1.71	1.35	0.47	0.25	0.20
15	0.20	0.00	1.52	7.19	6.84	8.75	7.19	1.93	1.35	0.47	0.22	0.20
16	0.17	0.00	1.26	17	6.84	7.37	7.19	2.04	1.35	0.42	0.20	0.22
17	0.14	0.00	1.10	6.15	5.49	6.67	7.74	2.26	1.35	0.42	0.20	0.62
18	0.14	0.00	6.67	4.87	4.40	* 74	10	1.82	1.18	0.42	0.20	0.38
19	0.11	0.00	2.59	6.50	4.09	* 61	8.75	1.71	0.93	0.42	0.22	0.33
20	0.084	0.14	1.82	14	6.67	* 23	8.35	3.32	0.93	0.38	0.20	0.25
21	0.084	0.66	1.26	19	13	16	7.37	3.16	0.93	0.38	0.20	0.25
22	0.084	0.47	0.93	8.15	12	13	6.67	2.26	0.84	0.33	0.20	0.22
23	0.22	0.28	0.76	8.95	7.94	11	5.80	2.04	0.84	0.33	0.20	0.17
24	0.20	0.22	0.62	10	8.95	9.56	5.33	2.15	0.84	0.33	0.17	0.28
25	0.47	0.20	0.57	8.55	6.67	18	5.18	1.93	0.76	0.33	0.17	0.33
26	0.25	0.20	3.16	10	14	19	5.49	1.82	0.76	0.33	0.14	0.28
27	0.62	0.20	1.26	9.36	9.36	15	5.18	1.71	0.76	0.33	0.14	0.22
28	0.42	0.17	0.66	8.15	7.37	16	4.71	1.60	0.71	0.33	0.14	0.20
29	0.28	0.14	0.57	6.67	6.67	14	4.09	1.60	0.71	0.28	–	0.17
30	0.25	0.14	0.52	7.54	5.02	14	3.78	1.52	0.66	0.28	–	0.17
31	–	0.17	–	5.80	4.71	–	3.16	–	0.66	0.28	–	0.20
Total	7.436	3.690	70.40	193.28	237.37	668.11	323.82	67.72	38.49	13.89	6.19	6.42
Mean	0.25	0.12	2.35	6.23	7.66	22.3	10.4	2.26	1.24	0.45	0.22	0.21
Max.	0.62	0.66	8.15	19	15	108	28	3.78	4.71	0.62	0.28	0.62
Min.	0.084	0.00	0.52	0.71	4.09	3.32	3.16	1.52	0.66	0.28	0.14	0.11
Runoff – MCM.	0.642	0.319	6.082	16.699	20.509	57.725	27.978	5.851	3.325	1.200	0.535	0.555

WATER YEAR 1972 : Max. 108 Min. 0.00 Mean 4.48 Annual Runoff 141.421 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 6, 72	18.00	4.74	217				

MUN RIVER BASIN

Mun River at Ban Chorakhe Hin, Nakhon Ratchasima (M49)

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.

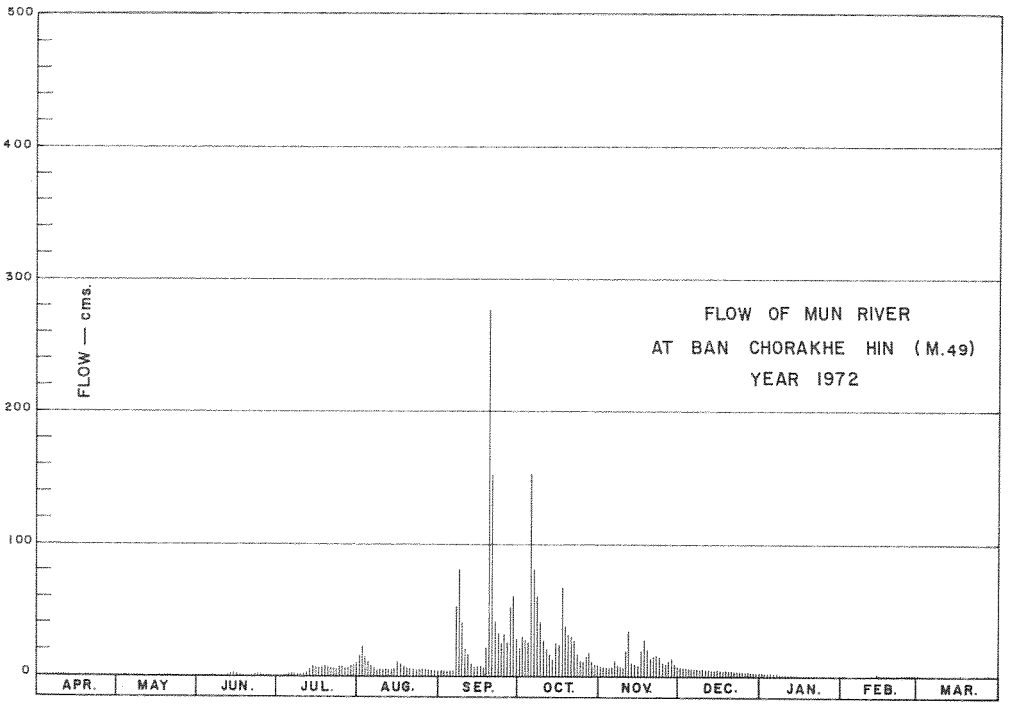
Overbank Flow Conditions: Overbank flow at about elevation + 202.00 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 148 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	197.91	197.91	197.93	198.17	201.04	200.03	201.33	200.67	200.65	199.43	198.49	198.95
2	.94	.90	.97	.58	.33	.02	.50	.61	.60	.48	.42	.31
3	.99	.90	.96	.67	.17	.00	.44	.59	.55	.35	.41	.26
4	198.03	.90	198.34	.71	.05	199.97	.40	.63	.51	.22	.39	.20
5	.04	198.01	.73	199.13	200.84	200.00	202.35	.61	.47	.16	.38	.20
6	198.07	197.91	198.51	199.34	200.68	200.21	202.11	200.94	200.43	199.13	198.38	198.21
7	197.96	.88	.26	.29	.56	201.81	201.96	.84	.39	.10	.37	.18
8	198.42	.87	.16	.23	.49	202.09	.81	.68	.35	.07	.34	.15
9	.81	.91	.09	.24	.46	201.65	.58	.62	.34	.03	.33	.14
10	.60	.88	.09	.15	.43	.32	.41	201.16	.32	.01	.32	.11
11	198.35	197.88	198.46	199.21	200.39	201.27	201.34	201.61	200.24	198.97	198.30	198.12
12	.21	.85	.89	.79	.38	200.99	.14	.18	.18	.94	.26	.13
13	.17	.85	199.07	200.36	.37	.80	.04	200.91	.16	.92	.63	.08
14	.30	.82	.46	.58	.34	.73	.22	.83	.19	.91	199.22	197.96
15	.22	.86	.31	.73	.66	.69	.42	.81	.14	.87	198.32	198.19
16	198.13	197.88	198.98	200.74	201.00	200.72	201.38	201.23	200.07	198.82	198.21	198.06
17	.08	.89	.68	.64	200.88	.63	.97	.44	.03	.77	.22	.04
18	.05	.86	.47	.55	.80	201.27	.66	.40	.02	.74	.62	.10
19	.01	.84	.32	.72	.70	202.65	.50	.09	.01	.75	.42	.09
20	197.98	.82	.24	.64	.59	.43	.51	.04	199.97	.82	.42	.02
21	197.94	197.82	198.15	200.64	200.52	202.03	201.49	201.11	199.89	198.78	198.57	198.00
22	.93	.85	.33	.59	.48	201.67	.42	.15	.81	.68	.49	.03
23	.92	.85	199.05	.44	.49	.50	.15	.13	.76	.64	.32	.43
24	.91	.85	.08	.58	.43	.40	.00	200.98	.72	.62	.11	.49
25	.91	.85	198.78	.76	.36	.50	200.93	.88	.68	.59	.48	.44
26	197.98	197.86	198.50	200.68	200.30	201.42	201.09	200.83	199.64	198.54	198.41	198.54
27	.96	.85	.31	.58	.25	.75	.23	201.01	.61	.54	.44	.90
28	.92	.84	.21	.60	.20	.91	.02	.06	.58	.51	.88	.33
29	.96	.83	.19	.68	.15	.69	200.88	200.81	.56	.50	-	.23
30	.92	.81	.16	.80	.13	.43	.80	.71	.53	.50	-	.20
31	-	.88	-	.82	.07	-	.73	-	.46	.49	-	.18
Mean	198.09	197.87	198.49	200.02	200.56	201.19	201.38	200.95	200.06	198.87	198.43	198.23
Max.	198.81	198.01	199.46	200.82	201.33	202.65	202.35	201.61	200.65	199.48	199.22	198.95
Min.	197.91	197.81	197.93	198.17	200.07	199.97	200.73	200.59	199.46	198.49	198.11	197.96

WATER YEAR 1972 : Max. 202.65 m. Min. 197.81 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.11	0.11	0.13	0.37	13	3.99	* 21	7.03	6.85	2.46	0.73	1.50
2	0.14	0.10	0.17	0.87	* 21	3.96	* 31	6.49	6.40	2.56	0.63	0.51
3	0.19	0.10	0.16	1.00	16	3.90	* 27	6.34	6.10	2.30	0.61	0.46
4	0.23	0.10	0.54	1.06	13	3.81	* 25	6.67	5.86	2.04	0.59	0.40
5	0.24	0.21	1.09	1.86	9.28	3.90	* 152	6.49	5.65	1.92	0.58	0.40
6	0.27	0.11	0.76	2.28	7.12	4.54	* 85	11	5.45	1.86	0.58	0.41
7	0.16	0.080	0.46	2.18	6.16	* 51	* 66	9.28	5.26	1.80	0.57	0.38
8	0.63	0.070	0.36	2.06	5.75	* 81	* 51	7.12	5.10	1.74	0.54	0.35
9	1.22	0.11	0.29	2.08	5.60	* 40	* 35	6.58	5.06	1.66	0.53	0.34
10	0.90	0.080	0.29	1.90	5.45	* 21	* 25	16	4.98	1.62	0.52	0.31
11	0.55	0.080	0.69	2.02	5.26	19	* 21	* 34	4.66	1.54	0.50	0.32
12	0.41	0.050	1.38	3.32	5.22	12	16	17	4.44	1.48	0.46	0.33
13	0.37	0.050	1.74	5.14	5.18	8.60	13	10	4.38	1.44	0.94	0.28
14	0.50	0.020	2.52	6.28	5.06	7.69	18	9.11	4.47	1.42	2.04	0.16
15	0.42	0.060	2.22	7.69	6.94	7.21	* 25	8.77	4.32	1.34	0.52	0.39
16	0.33	0.080	1.56	7.82	12	7.56	24	18	4.11	1.24	0.41	0.26
17	0.28	0.090	1.03	6.76	9.96	6.67	* 66	* 27	3.99	1.15	0.42	0.24
18	0.25	0.060	0.70	6.10	8.60	19	* 40	* 25	3.96	1.11	0.93	0.30
19	0.21	0.040	0.52	7.56	7.30	* 276	* 31	14	3.93	1.12	0.63	0.29
20	0.18	0.020	0.44	6.76	6.34	* 180	* 31	13	3.81	1.24	0.63	0.22
21	0.14	0.020	0.35	6.76	5.92	* 73	* 29	15	3.57	1.17	0.85	0.20
22	0.13	0.050	0.53	6.34	5.70	* 41	* 25	16	3.37	1.02	0.73	0.23
23	0.12	0.050	1.70	5.50	5.75	* 31	16	15	3.25	0.96	0.52	0.64
24	0.11	0.050	1.76	6.28	5.45	* 25	12	12	3.15	0.93	0.31	0.73
25	0.11	0.050	1.17	8.08	5.14	* 31	11	9.96	3.05	0.88	0.72	0.66
26	0.18	0.060	0.75	7.12	4.90	* 25	14	9.11	2.95	0.81	0.61	0.81
27	0.16	0.050	0.51	6.28	4.70	* 47	18	12	2.87	0.81	0.66	1.40
28	0.12	0.040	0.41	6.40	4.50	* 59	13	14	2.80	0.76	1.36	0.53
29	0.16	0.030	0.39	7.12	4.35	* 43	9.96	8.77	2.75	0.75	–	0.43
30	0.12	0.010	0.36	8.60	4.29	* 27	8.60	7.43	2.67	0.75	–	0.40
31	–	0.080	–	8.94	4.11	–	7.69	–	2.52	0.73	–	0.38
Total	8.94	2.11	24.98	152.53	229.03	1,162.83	967.25	378.15	131.73	42.61	19.12	14.26
Mean	0.30	0.068	0.83	4.92	7.39	38.8	31.2	12.6	4.25	1.37	0.68	0.46
Max.	1.22	0.21	2.52	8.94	21	276	152	34	6.85	2.56	2.04	1.50
Min.	0.11	0.010	0.13	0.37	4.11	3.81	7.69	6.34	2.52	0.73	0.31	0.16
Runoff - mcm.	0.772	0.182	2.158	13.178	19.788	100.468	83.570	32.672	11.381	3.681	1.652	1.232

WATER YEAR 1972 : Max. 276 Min. 0.010 Mean 8.58 Annual Runoff 270.738 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19, 72	01.00	202.85	378				

MUN RIVER BASIN

Lam Sae at Amphoe Khon Buri, Nakhon Ratchasima (M50)

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 because of backwater effect, no shifting adjustment for flow computation.

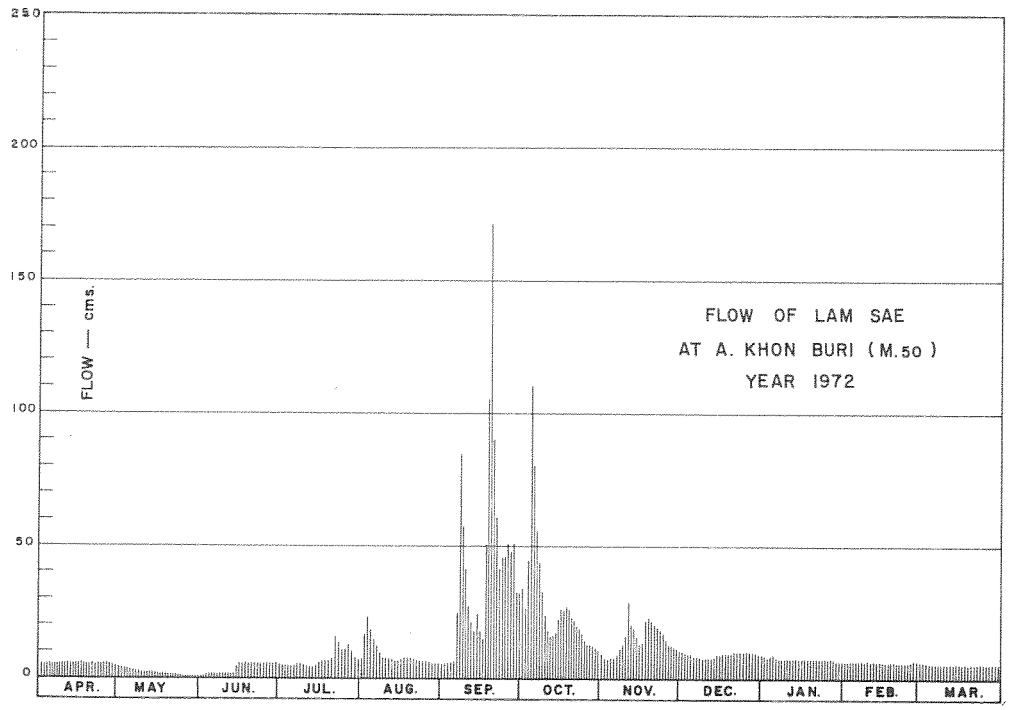
Overbank Flow Conditions: Overbank flow at about elevation + 3.30 m. (A.D.) and is included.

General Description: Records fair. Stage-discharge relation defined by 21 discharge measurements made in 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.56	1.47	0.84	1.56	1.75	1.60	2.27	1.81	1.85	1.80	1.67	1.63
2	.57	.45	.94	.55	.95	.60	.23	.78	.82	.79	.67	.64
3	.58	.44	1.12	.52	2.11	.61	.16	.78	.82	.79	.67	.63
4	.58	.40	.13	.52	.06	.61	.44	.76	.81	.79	.68	.63
5	.58	.38	.15	.55	1.98	.63	.89	.75	.80	.80	.68	.63
6	1.59	1.35	1.15	1.50	1.93	1.71	2.69	1.75	1.79	1.79	1.68	1.62
7	.57	.32	.15	.59	.86	2.12	.51	.81	.79	.78	.67	.62
8	.57	.30	.16	.61	.82	.73	.37	.88	.79	.78	.68	.61
9	.59	.29	.16	.60	.77	.51	.26	.91	.78	.77	.69	.62
10	.60	.27	.17	.60	.76	.33	.14	2.00	.78	.77	.70	.61
11	1.60	1.25	1.16	1.53	1.74	2.18	2.05	2.21	1.78	1.76	1.69	1.59
12	.60	.24	.15	.52	.72	.11	1.98	.05	.78	.75	.67	.58
13	.58	.22	.17	.51	.72	.03	.98	.05	.78	.74	.66	.60
14	.57	.20	.36	.52	.71	.13	2.01	1.98	.80	.74	.67	.60
15	.60	.20	.63	.60	.68	.06	.08	.92	.80	.74	.67	.60
16	1.62	1.18	1.63	1.64	1.72	1.98	2.16	1.92	1.80	1.73	1.67	1.57
17	.61	.17	.62	.67	.76	.93	.14	2.01	.81	.72	.66	.61
18	.57	.16	.62	.70	.78	2.61	.18	.09	.81	.72	.65	.58
19	.55	.14	.63	.69	.78	3.20	.18	.11	.81	.72	.65	.57
20	.57	.12	.61	.71	.75	2.86	.11	.08	.80	.72	.65	.60
21	1.57	1.12	1.60	1.79	1.74	2.66	2.09	2.06	1.82	1.73	1.64	1.56
22	.57	.10	.61	.99	.71	.50	.07	.05	.83	.73	.63	.56
23	.58	.08	.57	.93	.70	2.36	.05	.02	.84	.73	.63	.61
24	.57	.05	.60	.85	.66	.42	.01	.00	.83	.72	.63	.60
25	.57	.05	.60	.84	.66	.41	1.96	1.96	.82	.73	.62	.59
26	1.57	1.04	1.62	1.86	1.68	2.46	1.92	1.92	1.82	1.73	1.63	1.57
27	.58	.01	.62	.91	.67	.43	.91	.91	.82	.72	.64	.58
28	.55	0.97	.61	.86	.63	.46	.89	.89	.82	.74	.65	.58
29	.51	.92	.61	.80	.62	.26	.88	.88	.82	.68	-	.60
30	.48	.90	.61	.75	.62	.24	.86	.86	.81	.67	-	.60
31	-	.88	-	.74	.63	-	.83	-	.81	.67	-	.61
Mean	1.57	1.18	1.38	1.67	1.76	2.22	2.13	1.94	1.80	1.74	1.66	1.60
Max.	1.62	1.47	1.63	1.99	2.11	3.20	2.89	2.21	1.85	1.80	1.69	1.64
Min.	1.48	0.88	0.84	1.51	1.62	1.60	1.83	1.75	1.78	1.67	1.62	1.56

WATER YEAR 1972 : Max. 3.20 m. Min. 0.84 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.06	4.10	0.64	5.06	7.50	5.50	34	9.44	11	9.10	6.41	5.89
2	5.17	3.90	0.74	4.95	15	5.50	31	7.92	10	8.06	6.41	6.02
3	5.28	3.80	1.32	4.62	23	5.63	26	7.92	10	8.06	6.41	5.89
4	5.28	3.40	1.38	4.62	20	5.63	49	7.64	9.44	8.06	6.54	5.89
5	5.28	3.22	1.50	4.95	16	5.89	110	7.50	9.10	9.10	6.54	5.89
6	5.39	2.95	1.50	4.40	14	6.94	78	7.50	8.06	8.06	6.54	5.76
7	5.17	2.68	1.50	5.39	11	23	56	9.44	8.06	7.92	6.41	5.76
8	5.17	2.50	1.56	5.63	10	84	42	12	8.06	7.92	6.54	5.63
9	5.39	2.43	1.56	5.50	7.78	56	33	13	7.92	7.78	6.67	5.76
10	5.50	2.29	1.62	5.50	7.64	39	25	17	7.92	7.78	6.80	5.63
11	5.50	2.15	1.62	4.73	7.36	27	19	29	7.92	7.64	6.67	5.39
12	5.50	2.08	1.50	4.62	7.08	23	16	19	7.92	7.50	6.41	5.28
13	5.28	1.94	1.62	4.51	7.08	18	16	19	7.92	7.36	6.28	5.50
14	5.17	1.80	3.04	4.62	6.94	24	17	16	9.10	7.36	6.41	5.50
15	5.50	1.80	5.89	5.50	6.54	20	21	13	9.10	7.36	6.41	5.50
16	5.76	1.68	5.89	6.02	7.08	16	26	13	9.10	7.22	6.41	5.17
17	5.63	1.62	5.76	6.41	7.64	14	25	17	9.44	7.08	6.28	5.63
18	5.17	1.56	5.76	6.80	7.92	67	27	22	9.44	7.08	6.15	5.28
19	4.95	1.44	5.89	6.67	7.92	171	27	23	9.44	7.08	6.15	5.17
20	5.17	1.32	5.63	6.94	7.50	105	23	21	9.10	7.08	6.15	5.50
21	5.17	1.32	5.50	8.06	7.36	74	22	20	10	7.22	6.02	5.06
22	5.17	1.20	5.63	16	6.94	55	20	19	10	7.22	5.89	5.06
23	5.28	1.12	5.17	14	6.80	41	19	18	10	7.22	5.89	5.63
24	5.17	1.00	5.50	11	6.28	47	17	17	10	7.08	5.89	5.50
25	5.17	1.00	5.50	10	6.28	46	15	15	10	7.22	5.76	5.39
26	5.17	0.96	5.76	11	6.54	51	13	13	10	7.22	5.89	5.17
27	5.28	0.84	5.76	13	6.41	48	13	13	10	7.08	6.02	5.28
28	4.95	0.77	5.63	11	5.89	51	12	12	10	7.36	6.15	5.28
29	4.51	0.72	5.63	9.10	5.76	33	12	12	10	6.54	–	5.50
30	4.20	0.70	5.63	7.50	5.76	32	11	11	9.44	6.41	–	5.50
31	–	0.68	–	7.36	5.89	–	10	–	9.44	6.41	–	5.63
Total	156.39	58.97	111.63	225.46	274.89	1,200.09	865	441.36	286.92	231.58	176.10	171.04
Mean	5.21	1.90	3.72	7.27	8.86	40.0	27.9	14.7	9.25	7.47	6.28	5.51
Max.	5.76	4.10	5.89	16	23	171	110	29	11	9.10	6.67	6.02
Min.	4.20	0.68	0.64	4.51	5.76	5.50	10	7.50	7.92	6.41	5.76	5.06
Runoff – MCM.	13.512	5.095	9.645	19.480	23.750	103.688	74.736	38.133	24.790	20.008	15.215	14.778

WATER YEAR 1972 : Max. 171 Min. 0.64 Mean 11.5 Annual Runoff 362.830 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 18	22.00	3.47	233				

MUN RIVER BASIN

Huai Khayung at Ban Nam Om, Si Sa Ket (M66)

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, Si Sa Ket.

Drainage Area: 586 Sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: at the feet 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.

Overbank Flow Conditions: Overbank flow at about elevation + 6.10 m. (A.D.) and is included.

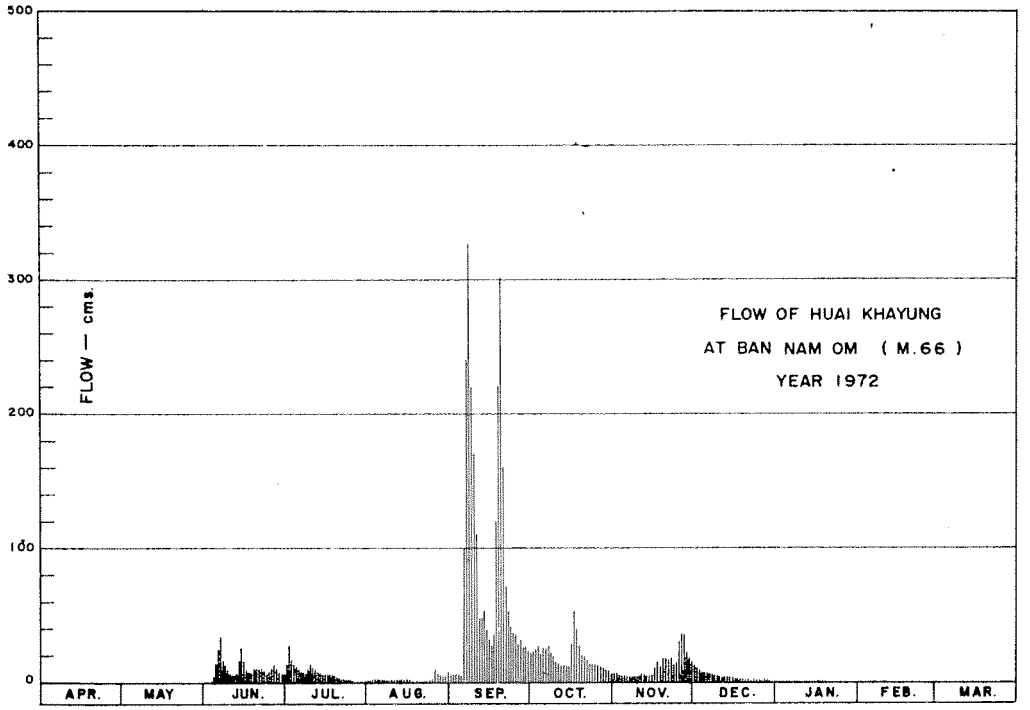
General Description: Records fair. Stage-discharge relation defined by 35 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights. Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.01	0.02	0.06	1.10	0.35	0.85	1.90	0.90	1.38	0.32	0.11	0.03
2	.00	.02	.12	2.30	.39	.84	2.12	.84	.22	.31	.09	.02
3	.00	.01	.18	1.74	.51	.99	.25	.81	.13	.30	.09	.01
4	.00	.01	.50	.39	.49	.88	1.91	.79	.06	.29	.11	.01
5	.00	.01	1.53	.34	.46	.90	2.22	.76	.01	.27	.10	.01
6	0.03	0.01	2.65	1.12	0.44	5.71	2.09	0.77	0.97	0.28	0.09	0.01
7	.06	.00	1.77	.01	.42	6.96	.32	.74	.92	.26	.09	.00
8	.03	.00	1.49	0.94	.45	.63	1.97	.67	.88	.24	.08	.00
9	.08	.01	.11	1.01	.44	.39	.71	.66	.84	.24	.08	.00
10	.11	.00	0.89	.57	.46	.44	.55	.76	.77	.23	.08	.00
11	0.10	-0.02	0.75	1.29	0.46	4.14	1.44	0.94	0.73	0.23	0.06	0.00
12	.10	-0.03	.74	.14	.40	3.47	.42	.84	.73	.22	.06	.00
13	.20	-0.03	1.19	.03	.32	.56	.38	.76	.71	.21	.05	.00
14	.15	-0.03	2.23	0.97	.53	2.94	.42	.73	.67	.20	.05	.00
15	.18	-0.03	1.70	.90	.48	.58	.44	.81	.64	.20	.05	.00
16	0.15	-0.03	1.28	0.92	0.40	2.27	2.64	1.14	0.61	0.19	0.04	0.03
17	.13	-0.03	.06	.78	.34	.73	3.57	.60	.59	.19	.08	.03
18	.12	-0.02	0.92	.73	.32	6.04	2.58	.36	.56	.19	.05	.02
19	.11	-0.02	1.21	.64	.40	.88	.06	.75	.54	.18	.05	.01
20	.10	-0.01	.18	.60	.37	.00	1.82	.75	.52	.18	.04	.00
21	0.09	-0.01	1.16	0.56	0.35	4.48	1.77	1.69	0.50	0.17	0.03	0.00
22	.09	-0.03	.26	.52	.34	3.75	.60	.74	.48	.17	.02	.00
23	.09	-0.02	.00	.47	.33	.07	.46	.55	.45	.17	.01	.00
24	.12	-0.03	0.89	.44	.38	2.82	.44	.60	.44	.16	.02	.00
25	.08	-0.03	1.09	.41	.62	.77	.37	2.51	.42	.15	.02	-0.01
26	0.05	-0.02	1.49	0.39	1.20	2.34	1.32	2.75	0.40	0.15	0.03	-0.01
27	.04	-0.01	.29	.35	0.97	.63	.25	.76	.39	.15	.04	-0.02
28	.02	-0.02	.07	.32	.95	.24	.24	.13	.39	.14	.03	-0.02
29	.03	-0.02	0.92	.28	.83	.25	.20	1.78	.37	.13		-0.02
30	.03	0.00	.83	.33	.76	.03	.12	.56	.35	.12		-0.02
31		.03		.35	1.09		0.99		.34	.13		-0.02
Mean	0.08	0.01	1.12	0.87	0.52	3.37	1.76	1.31	0.68	0.20	0.06	0.02
Max.	0.20	0.03	2.65	2.30	1.20	6.96	3.57	2.76	1.38	0.32	0.11	0.03
Min.	0.00	-0.03	0.06	0.28	0.32	0.84	0.99	0.66	0.34	0.12	0.01	-0.02

WATER YEAR 1972 : Max. 6.96 m. Min. -0.03 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.10	0.30	9.20	1.85	6.25	21	6.80	13	1.64	0.55	0.15
2	0.00	0.10	0.60	28	2.13	6.14	24	6.14	11	1.57	0.45	0.10
3	0.00	0.05	0.90	18	3.08	7.88	27	5.81	9.59	1.50	0.45	0.05
4	0.00	0.05	3.00	13	2.92	6.58	21	5.60	8.72	1.45	0.55	0.05
5	0.00	0.05	15	12	2.68	6.80 *	26	5.30	8.12	1.35	0.50	0.05
6	0.15	0.05	34	9.46	2.52	158 *	24	5.40	7.64	1.40	0.45	0.05
7	0.30	0.00	19	8.12	2.36	326 *	28	5.10	7.04	1.30	0.45	0.00
8	0.15	0.00	14	7.08	2.60	238 *	22	4.43	6.58	1.20	0.40	
9	0.40	0.05	9.33	8.12	2.52	194 *	18	4.34	6.14	1.20	0.40	
10	0.55		6.69	15	2.68	133 *	15	5.30	5.40	1.15	0.40	
11	0.50		5.20	12	2.68	68 *	14	7.28	5.00	1.15	0.30	
12	0.50		5.10	9.72	2.20	49 *	13	6.14	5.00	1.10	0.30	
13	1.00		10	8.36	1.64	53 *	13	5.30	4.80	1.05	0.25	
14	0.70		26	7.64	3.24	40 *	13	5.00	4.43	1.00	0.25	
15	0.90		17	6.80	2.84	32 *	14	5.81	4.16	1.00	0.25	0.00
16	0.70		11	7.04	2.20	27 *	34	9.72	3.89	0.95	0.20	0.15
17	0.65		8.72	5.50	1.78	36 *	53	16	3.72	0.95	0.40	0.15
18	0.60		7.04	5.00	1.64	188 *	33	12	3.48	0.95	0.25	0.10
19	0.55		11	4.16	2.20	301 *	23	18	3.32	0.90	0.25	0.05
20	0.50		10	3.80	1.99	156 *	19	18	3.16	0.90	0.20	0.00
21	0.45		10	3.48	1.85	78 *	19	17	3.00	0.85	0.15	
22	0.45		11	3.16	1.78	57 *	16	18	2.84	0.85	0.10	
23	0.45		8.00	2.76	1.71	42 *	14	15	2.60	0.85	0.05	
24	0.60		6.69	2.52	2.06	37 *	14	16	2.52	0.80	0.10	
25	0.40		9.08	2.28	3.98	36 *	13	31	2.36	0.75	0.10	
26	0.25		14	2.13	10	28 *	12	36	2.20	0.75	0.15	
27	0.20		12	1.85	7.64	33	11	36	2.13	0.75	0.20	
28	0.10		8.84	1.64	7.40	26	11	24	2.13	0.70	0.15	
29	0.15		7.04	1.40	6.03	27	10	19	1.99	0.65		
30	0.15	0.00	6.03	1.71	5.30	23	9.46	15	1.85	0.60		
31		0.15		1.85	9.08		7.88		1.78	0.65		0.00
Total	11.40	0.60	306.56	222.06	104.58	2,420.65	592.34	384.47	149.63	31.87	8.30	0.90
Mean	0.38	0.07	10.2	7.16	3.37	80.7	19.1	12.8	4.82	1.03	0.30	0.00
Max.	1.00	0.15	34	28	10	326	53	36	13	1.64	0.55	0.15
Min.	0.00	0.00	0.30	1.40	1.64	6.14	7.88	4.34	1.78	0.60	0.05	0.00
Runoff - MCM.	0.985	0.052	26.487	19.186	9.036	209.144	51.178	33.218	12.928	2.753	0.717	0.078

WATER YEAR 1972 : Max. 326 Min. 0.00 Mean 11.6 Annual Runoff 365.762 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7	06.00	7.03	348				

MUN RIVER BASIN

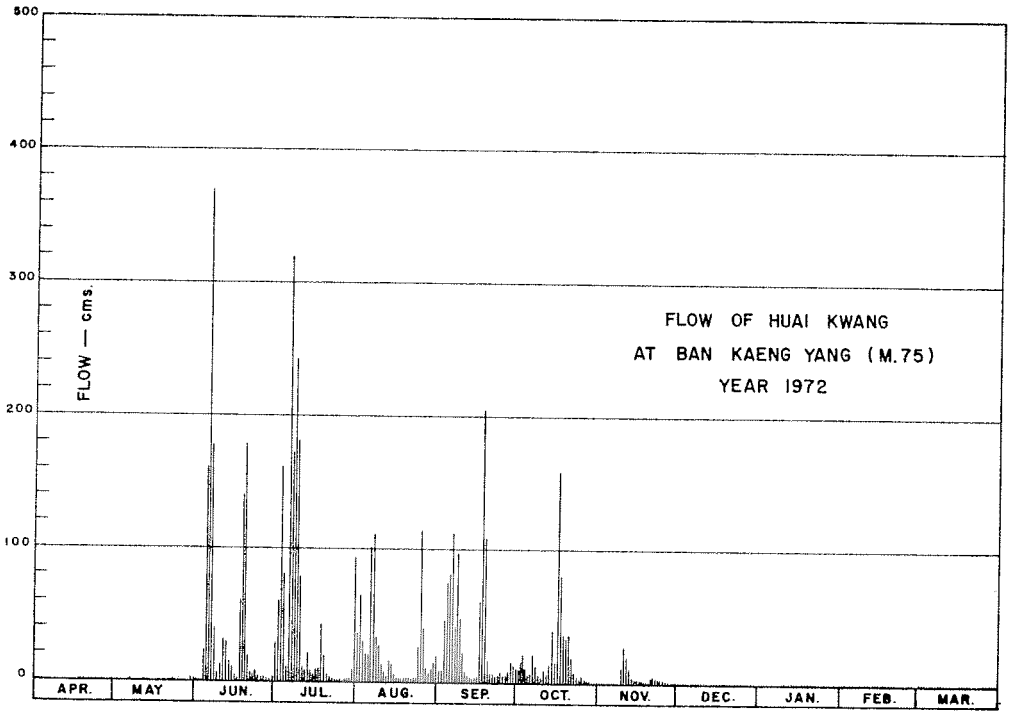
Huai Kwang at Ban Kaeng Yang, Ubon Ratchathani (M75)

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.
Overbank Flow Conditions:	No overbank flow.
General Description:	Records good. Stage-discharge relation defined by 29 discharge measurements made in 1972.
Remarks:	Asterisk (*) designated the discharges determined from hourly gage-heights. Discharge record for periods of on flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.74	0.68	0.82	2.05	2.26	1.27	1.27	0.78	0.76	0.70	0.66	0.70
2	.73	.68	.77	3.10	3.23	.24	.46	.78	.76	.71	.66	.70
3	.70	.67	.80	5.45	2.08	2.54	.77	.76	.74	.72	.71	.70
4	.67	.65	2.60	2.01	1.78	3.43	.52	.75	.73	.71	.71	.68
5	.68	.66	7.23	1.42	.73	.59	.11	.75	.73	.71	.70	.69
6	0.69	0.67	5.99	6.45	4.11	4.39	1.21	0.74	0.73	0.72	0.71	0.69
7	.69	.80	2.86	5.47	.39	2.36	.83	.74	.73	.74	.69	.68
8	.69	.73	1.40	6.47	2.18	3.99	.38	.73	.73	.71	.69	.70
9	.68	.70	.11	5.44	.01	2.75	.10	.74	.73	.74	.70	.69
10	.68	.69	.53	2.82	1.45	.12	.00	2.00	.75	.72	.70	.69
11	0.69	0.69	2.12	1.37	1.18	1.30	1.29	1.76	0.74	0.70	0.70	0.69
12	.69	.71	.04	.25	.01	.12	.10	.28	.73	.69	.69	.67
13	.71	.71	1.60	.81	.57	.03	.45	.09	.73	.72	.68	.67
14	.74	.69	.46	.24	.52	0.96	2.34	0.98	.72	.71	.70	.66
15	.71	.71	.13	.10	.12	.98	1.49	.90	.72	.71	.71	.68
16	0.71	0.71	0.98	1.32	0.98	1.02	5.40	0.88	0.72	0.70	0.71	0.70
17	.71	.70	.90	.35	.91	4.09	3.03	.86	.74	.70	.73	.70
18	.84	.72	4.57	2.51	.90	6.09	2.39	.84	.76	.70	.72	.68
19	.77	.71	5.51	1.53	.94	2.38	.22	.82	.77	.70	.67	.67
20	.75	.67	1.72	.16	.96	1.41	.29	.84	.75	.70	.66	.67
21	0.72	0.69	1.21	1.00	0.93	1.15	1.84	1.05	0.73	0.77	0.67	0.67
22	.71	.68	.03	0.94	.87	.22	.31	.06	.74	.74	.69	.68
23	.72	.71	.22	.89	.89	.05	.09	0.92	.77	.72	.69	.67
24	.73	.66	.04	.84	1.97	.20	0.98	.98	.74	.73	.68	.66
25	.79	.64	0.90	.87	4.46	.23	1.07	.93	.73	.78	.67	.63
26	0.76	0.65	0.90	0.84	2.49	1.08	0.94	0.88	0.74	0.71	0.68	0.62
27	.72	.66	.91	.83	1.38	0.96	.87	.86	.72	.68	.68	.66
28	.70	.66	.84	.90	.13	1.27	.85	.82	.75	.68	.68	.69
29	.72	.68	.81	.90	.34	.66	.82	.80	.73	.68		.70
30	.70	.93	.90	1.30	.55	.41	.81	.78	.71	.70		.69
31		.82		3.92	.76		.79		.71	.69		.67
Mean	0.72	0.70	1.90	2.21	1.78	2.01	1.55	0.94	0.74	0.71	0.69	0.68
Max.	0.84	0.93	7.23	6.45	4.46	6.09	5.40	2.00	0.77	0.78	0.73	0.70
Min.	0.67	0.64	0.77	0.83	0.87	0.96	0.79	0.73	0.71	0.68	0.66	0.62

WATER YEAR 1972 : Max. 7.23 m. Min. 0.62 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.00	1.30	30 *	35	8.90	8.90	0.80	0.60	0.00	0.00	0.00
2	0.30		0.70	63 *	66	8.30	13	0.80	0.60	0.10	0.00	
3	0.00		1.09 *	161 *	30	44	21	0.60	0.40	0.20	0.10	
4			50 *	28 *	21	74	14	0.50	0.30	0.10	0.10	
5			369 *	12 *	20	80	5.70	0.50	0.30	0.10	0.00	
6		0.00 *	203 *	320 *	101	112	7.70	0.40	0.30	0.20	0.10	
7		1.00 *	57 *	171 *	112	38	22	0.40	0.30	0.40	0.00	
8		0.30 *	12 *	242 *	33	96	11	0.30	0.30	0.10		
9		0.00 *	5.71 *	158 *	28	50	5.50	0.40	0.30	0.40		
10		0.00	15	56 *	13	31	4.00	27	0.50	0.20		
11		0.00	31	11 *	7.10	9.50	9.30	20	0.40	0.00		
12	0.00	0.10	29	8.86*	4.15	5.90	5.50	9.10	0.30	0.00		
13	0.10	0.10	16	22	16	4.45	13	5.35	0.30	0.20		
14	0.40	0.00	13	8.30	14	3.40	38	3.70	0.20	0.10	0.00	
15	0.10	0.10	6.10	5.50	5.90	3.70	14 *	2.50	0.20	0.10	0.10	
16	0.10	0.10	3.70	9.90	3.70	4.30*	158 *	2.20	0.20	0.00	0.10	
17	0.10	0.00	2.54 *	10	2.65	101 *	68 *	1.90	0.40	0.00	0.30	
18	1.60	0.20	130 *	43	2.50	205 *	38 *	1.60	0.60	0.00	0.20	
19	0.70	0.10	178 *	15	3.10	43 *	34 *	1.30	0.70	0.00	0.00	
20	0.50	0.00	21 *	6.70	3.40	12 *	36	1.60	0.50	0.00		
21	0.20	0.00	7.75 *	4.00	2.95	6.61*	23	4.75	0.30	0.70		
22	0.10	0.00	4.43 *	3.10	2.05	7.90	9.70	4.90	0.40	0.40		
23	0.20	1.00	7.90	2.35	2.36 *	4.75	5.35	2.80	0.70	0.20		
24	0.30	0.00	4.60	1.65	26 *	7.50	3.70	3.70	0.40	0.30		
25	0.90		2.50	2.05	114 *	8.10	5.05	2.95	0.30	0.80		
26	0.60		2.50	1.60	45 *	5.20	3.10	2.20	0.40	0.10		
27	0.20		2.65	1.45	11 *	3.40	2.05	1.90	0.20	0.00		
28	0.00		1.60	2.50	6.18 *	8.90	1.75	1.30	0.50	0.00	0.00	
29	0.20	0.00	1.14 *	2.50	10	18	1.30	1.00	0.30	0.00		
30	0.00	2.95	2.50 *	9.50	15	12	1.15	0.80	0.10	0.00		
31		1.30		93	20		0.90		0.10	0.00		0.00
Total	7.00	7.25	1,182.71	1,504.96	776.04	1,016.81	583.65	107.25	11.40	4.70	1.00	0.00
Mean	0.23	0.23	39.4	48.5	25.0	33.9	18.8	3.57	0.36	0.15	0.035	0.00
Max.	1.60	2.95	369	320	114	205	158	27	0.70	0.80	0.30	0.00
Min.	0.00	0.00	0.70	1.45	2.05	3.40	0.90	0.30	0.10	0.00	0.00	0.00
Runoff - mcm.	0.605	0.626	102.186	130.028	67.050	87.852	50.427	9.266	0.985	0.406	0.086	0.000

WATER YEAR 1972 : Max. 369 Min. 0.00 Mean 14.2 Annual Runoff 449.519 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
June 5	08.00	7.84	533				

MUN RIVER BASIN

Lam Dom Yai at Highway Bridge, Ubon Ratchathani (M80)

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: 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 building
Elevation: + 11.826 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: Fairly Stable because of backwater effect, no shifting adjustment but periodic curves are used for flow computation.

Overbank Flow Conditions: Overbank flow starts at elevation + 10.95 m. (A.D.) and is included.

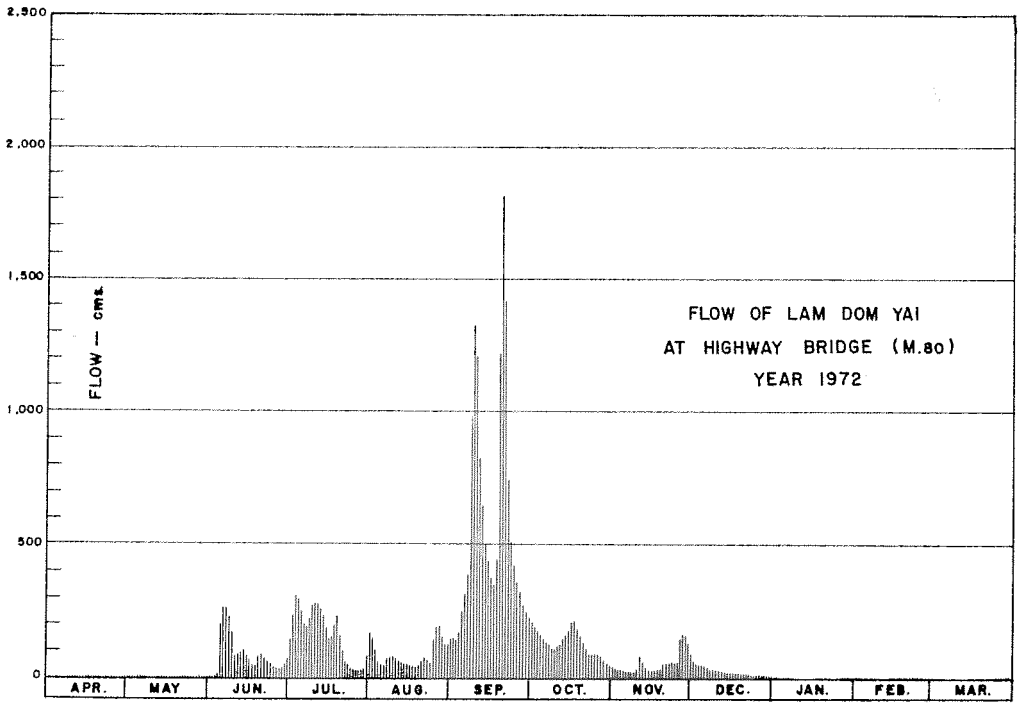
General Description: Records fair. Stage-discharge relation defined by 62 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.66	0.66	0.64	3.68	5.62	5.19	7.11	2.43	3.20	1.20	0.86	0.65
2	.66	.62	.65	6.06	.03	.04	6.62	.31	2.92	.19	.85	.65
3	.65	.65	.68	7.49	3.97	4.88	.26	.21	.77	.17	.84	.65
4	.65	.64	1.30	8.05	2.90	6.10	5.68	.12	.67	.16	.83	.64
5	.65	.64	5.89	7.72	.72	7.33	.00	.04	.59	.14	.82	.62
6	0.66	0.63	7.20	6.70	2.54	8.27	4.94	1.98	2.49	1.13	0.81	0.62
7	.64	.62	.15	5.99	3.28	9.30	.71	.93	.33	.12	.80	.61
8	.62	.62	6.83	.89	.28	11.33	.38	.87	.21	.11	.80	.61
9	.62	.62	5.76	6.44	.56	12.09	.25	.82	.14	.09	.79	.62
10	.71	.61	3.36	7.43	.29	11.98	.08	2.26	.03	.08	.79	.61
11	0.74	0.61	3.54	7.63	3.26	11.58	4.31	3.48	1.92	1.06	0.78	0.61
12	.73	.60	.78	.51	.03	.22	.53	.07	.85	.05	.77	.61
13	.79	.60	.70	.02	2.86	10.82	.92	2.51	.85	.04	.76	.61
14	.92	.58	4.06	6.68	.69	.42	5.15	.21	.81	.03	.75	.59
15	.87	.57	3.63	5.97	.70	.01	.53	.05	.74	.02	.74	.60
16	0.84	0.63	2.97	5.00	2.54	9.59	6.12	1.95	1.68	1.02	0.71	0.59
17	.82	.64	.62	4.85	.57	.49	.36	.92	.64	0.99	.72	.59
18	.78	.60	.41	5.93	.48	10.43	5.90	.99	.59	.98	.71	.58
19	.75	.61	3.40	6.64	.52	11.99	.40	2.26	.55	.98	.71	.57
20	.73	.57	.48	5.94	.94	12.45	.04	.90	.52	.97	.71	.57
21	0.70	0.56	3.48	4.35	3.29	12.16	4.53	2.90	1.49	0.98	0.70	0.59
22	.69	.54	.09	3.42	.37	11.56	.03	.86	.47	.97	.70	.59
23	.74	.54	2.77	2.85	.05	10.96	3.66	3.01	.43	.96	.70	.57
24	.76	.53	.65	.47	2.82	.45	.63	2.79	.39	.94	.69	.58
25	.73	.53	.44	.17	4.13	9.97	.82	3.02	.36	.93	.68	.57
26	0.70	0.52	2.26	2.03	5.88	9.50	3.73	4.68	1.34	0.92	0.66	0.57
27	.69	.52	.10	1.93	6.01	8.99	.63	5.31	.31	.90	.67	.56
28	.69	.51	.07	2.10	5.15	.48	.30	.46	.29	.90	.65	.56
29	.68	.53	.29	.02	4.57	7.97	.01	.34	.26	.89		.56
30	.70	.53	.87	.28	.45	.55	2.77	4.10	.25	.88		.55
31		.60		3.74	.92		.57		.23	.87		.52
Mean	0.72	0.58	3.30	4.98	3.59	9.87	4.68	2.83	1.85	1.02	0.75	0.59
Max.	0.92	0.66	7.20	8.05	6.01	12.45	7.11	5.46	3.20	1.20	0.86	0.65
Min.	0.62	0.51	0.64	1.93	2.48	4.88	2.57	1.82	1.23	0.87	0.65	0.52

WATER YEAR 1972 : Max. 12.45 m. Min. 0.51 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.10	1.10	0.90	91	179	157	220	43	71	9.50	3.90	1.00
2	1.10	0.70	1.00	201	151	151	201	39	60	9.30	3.75	1.00
3	1.00	1.00	1.30	278	103	144	189	35	55	8.90	3.60	1.00
4	1.00	0.90	11	312	59	203	170	33	51	8.70	3.45	0.90
5	1.00	0.90	192	292	53	270	149	30	49	8.30	3.30	0.70
6	1.10	0.80	262	235	46	326	147	28	45	8.10	3.15	0.70
7	0.90	0.70	260	197	75	402	136	27	39	7.90	3.00	0.60
8	0.70	0.70	242	192	75	824	122	25	35	7.70	3.00	0.60
9	0.70	0.70	186	221	86	1,322	116	24	33	7.35	2.85	0.70
10	1.65	0.60	78	275	75	1,202	108	37	30	7.20	2.85	0.60
11	2.10	0.60	85	287	74	845	118	83	27	6.90	2.70	0.60
12	1.95	0.50	95	280	65	655	128	66	24	6.75	2.55	0.60
13	2.85	0.50	91	253	58	539	146	46	24	6.60	2.40	0.60
14	4.80	0.40	107	234	52	469	156	35	23	6.45	2.25	0.45
15	4.05	0.35	89	196	52	407	174	30	21	6.30	2.10	0.50
16	3.60	0.80	62	149	47	356	204	27	20	6.30	1.65	0.45
17	3.30	0.90	50	143	48	347	216	27	19	5.85	1.80	0.45
18	2.70	0.50	42	194	45	476	193	29	18	5.70	1.65	0.40
19	2.25	0.60	79	232	46	1,275	168	37	17	5.70	1.65	0.35
20	1.95	0.35	83	195	61	1,819	151	59	16	5.55	1.65	0.35
21	1.50	0.30	83	120	75	1,416	128	59	15	5.70	1.50	0.45
22	1.40	0.20	67	80	78	842	106	58	15	5.55	1.50	0.45
23	2.10	0.20	55	58	65	572	90	64	14	5.40	1.50	0.35
24	2.40	0.15	51	44	57	475	89	56	13	5.10	1.40	0.40
25	1.95	0.15	43	34	110	402	96	64	13	4.95	1.30	0.35
26	1.50	0.10	37	30	192	348	93	135	12	4.80	1.10	0.35
27	1.40	0.10	32	27	198	307	89	163	12	4.50	1.20	0.30
28	1.40	0.05	31 *	32	156	278	75	171	11	4.50	1.00	0.30
29	1.30	0.15	38 *	30	130	254	64	165	11	4.35		0.30
30	1.50	0.15	58 *	38	125	236	55	109	11	4.20		0.25
31		0.50		93	146		48		10	4.05		0.10
Total	56.25	15.65	2,512	5,043	2,782	17,322	4,145	1,804	814	198.15	63.75	16.15
Mean	1.87	0.50	83.7	163	89.7	577	134	60.1	26.3	6.39	2.28	0.52
Max.	4.80	1.10	262	312	198	1,819	220	171	71	9.50	3.90	1.00
Min.	0.70	0.05	0.90	27	45	144	48	24	10	4.05	1.00	0.10
Runoff - mcm.	4.860	1.352	217.054	435.715	240.365	1,496.621	358.120	155.866	70.330	17.120	5.508	1.395

WATER YEAR 1972 : Max. 1,819 Min. 0.05 Mean 95.3 Annual Runoff 3,004.300 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	06.00	12.52	1,924				

MUN RIVER BASIN

Lam Sae at Ban Mak Krat, Nakhon Ratchasima (M81A)

Location: Lat. 14°-22'-22" N., Long. 102°-15'-40" E., on right bank about 4 kilometers upstream from M81, Tambon Khok Kra Chai, 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: beside 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.

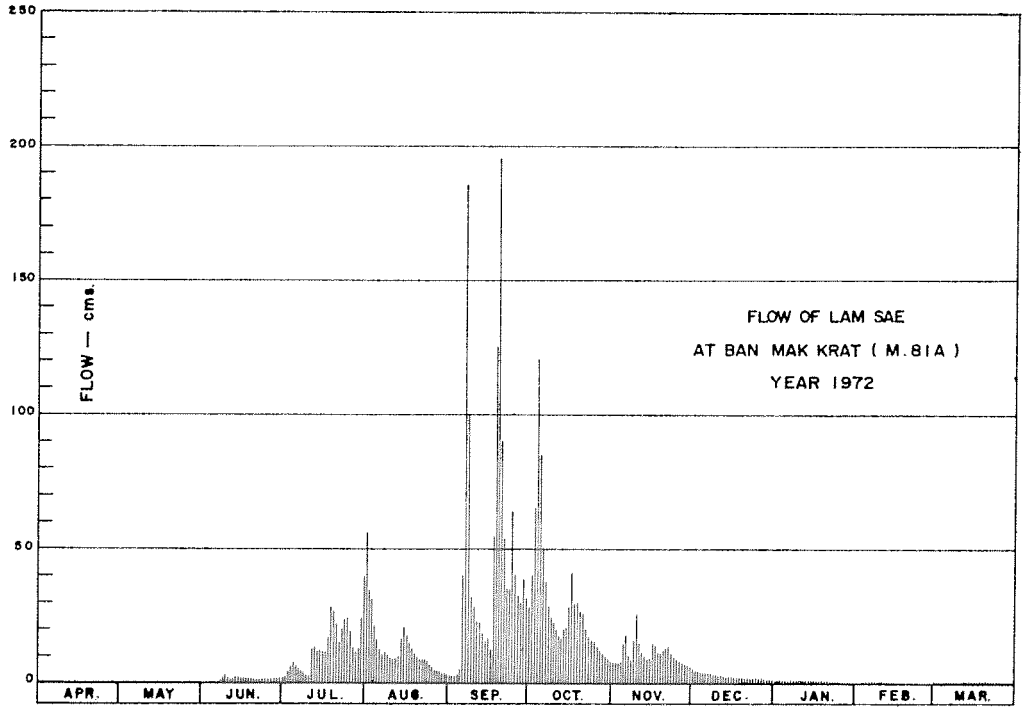
Overbank Flow Conditions: Overbank flow starts at elevation + 216.50 m. (M.S.L.) on right bank and is included.

General Description: Records fair. Stage-discharge relation defined by 70 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	210.21	210.28	210.24	211.15	214.30	211.57	213.33	212.14	211.89	211.01	210.61	210.40
2	.19	.28	.26	.16	213.60	.54	.85	.09	.85	.01	.61	.39
3	.19	.27	.27	.84	.45	.54	214.27	.09	.80	.01	.59	.38
4	.19	.26	.33	212.08	212.96	.52	215.67	.14	.76	210.99	.59	.37
5	.20	.26	.48	.09	.68	212.01	214.98	.62	.72	.96	.57	.37
6	210.24	210.27	210.50	211.95	212.51	214.61	214.13	212.83	211.69	210.93	210.57	210.37
7	.25	.26	.54	.78	.42	216.74	213.87	.44	.65	.91	.56	.36
8	.25	.25	211.20	.62	.46	214.70	.46	.27	.63	.89	.55	.35
9	.27	.24	.48	.52	.43	213.57	.20	.59	.60	.89	.55	.35
10	.39	.22	.25	.40	.29	.41	.06	213.24	.57	.85	.54	.35
11	210.35	210.21	211.19	211.39	212.23	213.11	213.02	212.75	211.52	210.85	210.53	210.35
12	.33	.21	.22	212.54	.30	.09	212.85	.49	.48	.84	.53	.34
13	.34	.20	.55	.60	.35	.07	.78	.39	.47	.83	.51	.33
14	.39	.19	.45	.49	.78	212.72	213.06	.27	.44	.81	.50	.33
15	.39	.19	.29	.56	213.00	.76	.06	.26	.41	.81	.49	.33
16	210.34	210.18	211.16	212.44	212.87	212.58	213.36	212.68	211.38	210.80	210.49	210.33
17	.29	.17	.04	.50	.66	.45	.86	.65	.35	.79	.49	.33
18	.28	.15	210.95	.82	.53	214.89	.32	.45	.32	.78	.47	.33
19	.28	.14	.88	213.37	.39	216.87	.44	.38	.30	.77	.48	.32
20	.28	.12	.81	.71	.33	215.34	.30	.49	.28	.76	.48	.31
21	210.26	210.12	210.76	215.07	212.25	214.36	213.27	212.53	211.25	210.75	210.47	210.31
22	.26	.11	.94	212.74	.28	213.68	212.96	.63	.22	.74	.46	.32
23	.28	.10	211.07	213.08	.20	.63	.82	.49	.19	.71	.45	.33
24	.31	.10	.04	.14	.09	214.51	.70	.33	.17	.70	.44	.32
25	.31	.09	.04	.21	.00	.14	.72	.25	.15	.69	.43	.36
26	210.31	210.09	211.03	212.91	211.91	213.71	212.63	212.20	211.13	210.67	210.42	210.43
27	.31	.18	210.96	.61	.83	.42	.52	.14	.11	.65	.41	.48
28	.30	.25	.89	.50	.76	.56	.45	.08	.09	.64	.41	.46
29	.28	.25	.83	.52	.69	.81	.37	.02	.08	.63		.43
30	.28	.24	.91	.84	.66	.48	.29	211.96	.07	.62		.40
31		.25		213.54	.61		.23		.04	.61		.37
Mean	210.28	210.20	210.92	212.42	212.44	213.55	213.25	212.40	211.41	210.80	210.51	210.36
Max.	210.39	210.28	211.55	213.71	214.30	216.87	215.67	213.24	211.89	211.01	210.61	210.48
Min.	210.19	210.09	210.24	211.15	211.61	211.52	212.23	211.96	211.04	210.61	210.41	210.31

WATER YEAR 1972 : Max. 216.87 m. Min. 210.09 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.055	0.090	0.070	1.85	56	3.45	28	8.00	5.52	1.43	0.52	0.20
2	0.045	0.090	0.080	1.88	34	3.30	40	7.50	5.20	1.43	0.52	0.19
3	0.045	0.085	0.085	5.12	31	3.30	54	7.50	4.80	1.43	0.48	0.18
4	0.045	0.080	0.13	7.40	20	3.20	121	8.00	4.56	1.37	0.48	0.17
5	0.050	0.080	0.28	7.50	15	6.70	85	14	4.32	1.28	0.44	0.17
6	0.070	0.085	0.30	6.10	12	68	50	18	4.14	1.19	0.44	0.17
7	0.075	0.080	0.38	4.68	11	186	41	11	3.90	1.13	0.42	0.16
8	0.075	0.075	2.00	3.72	12	72	31	9.30	3.73	1.08	0.40	0.15
9	0.085	0.070	3.02	3.20	11	33	25	14	3.60	1.04	0.40	0.15
10	0.190	0.060	2.15	2.70	9.50	30	22	26	3.45	1.00	0.38	0.15
11	0.15	0.055	1.97	2.66	8.90	23	21	16	3.20	1.00	0.36	0.15
12	0.13	0.055	2.06	13	9.60	23	18	12	3.02	0.98	0.36	0.14
13	0.14	0.050	3.35	14	10	22	17	11	2.98	0.96	0.32	0.13
14	0.19	0.045	2.90	12	17	16	22	9.30	2.86	0.92	0.30	0.13
15	0.19	0.045	2.27	13	21	17	22	9.20	2.74	0.92	0.29	0.13
16	0.140	0.040	1.88	11	19	14	28	15	2.62	0.92	0.29	0.13
17	0.095	0.035	1.52	12	15	12	41	15	2.50	0.88	0.29	0.13
18	0.090	0.025	1.25	18	13	81	28	12	2.38	0.86	0.27	0.13
19	0.090	0.020	1.06	29	11	195	30	11	2.30	0.84	0.28	0.12
20	0.090	0.010	0.92	37	10	103	27	12	2.24	0.82	0.28	0.11
21	0.080	0.010	0.82	22	9.10	58	26	13	2.15	0.80	0.27	0.11
22	0.080	0.005	1.22	16	9.40	36	20	14	2.06	0.78	0.26	0.12
23	0.090	0.000	1.61	23	8.60	35	18	12	1.97	0.72	0.25	0.13
24	0.110	0.000	1.52	24	7.50	64	16	10	1.91	0.70	0.24	0.12
25	0.110	0.000	1.52	25	6.60	50	16	9.10	1.85	0.68	0.23	0.16
26	0.11	0.000	1.42	19	5.70	37	14	8.60	1.79	0.64	0.22	0.23
27	0.11	0.040	1.28	14	5.04	30	13	8.00	1.73	0.60	0.21	0.28
28	0.10	0.075	1.08	12	4.56	33	12	7.40	1.67	0.58	0.21	0.26
29	0.090	0.075	0.96	13	4.14	39	10	6.80	1.64	0.56		0.23
30	0.090	0.070	1.13	18	3.96	31	9.50	6.20	1.61	0.54		0.20
31		0.075		33	3.66		8.90		1.52	0.52		0.17
Total	3.010	1.525	40.305	424.81	414.26	1,327.95	914.40	340.90	90.01	28.58	9.41	5.00
Mean	0.100	0.049	1.34	13.7	13.4	44.3	29.5	11.4	2.90	0.92	0.34	0.16
Max.	0.19	0.090	3.35	37	56	195	121	26	5.52	1.43	0.52	0.28
Min.	0.045	0.000	0.070	1.85	3.66	3.20	8.90	6.20	1.52	0.52	0.21	0.11
Runoff - MCM.	0.260	0.132	3.482	36.703	35.792	114.735	79.004	29.454	7.777	2.469	0.813	0.432

WATER YEAR 1972 : Max. 195 Min. 0.00 Mean 9.86 Annual Runoff 311.054 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 18	23.00	217.84	272				

MUN RIVER BASIN

Lam Takhong at Vaccine Serum office, Nakhon Ratchasima (M89)

Location: Lat. 14°-41'-46" N., Long. 101°-25'-07" E., on left bank at the bridge on Pak Chong – Nakhon Ratchasima highway infront of Vaccine Serum office, Amphoe Pakchong, 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: 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.

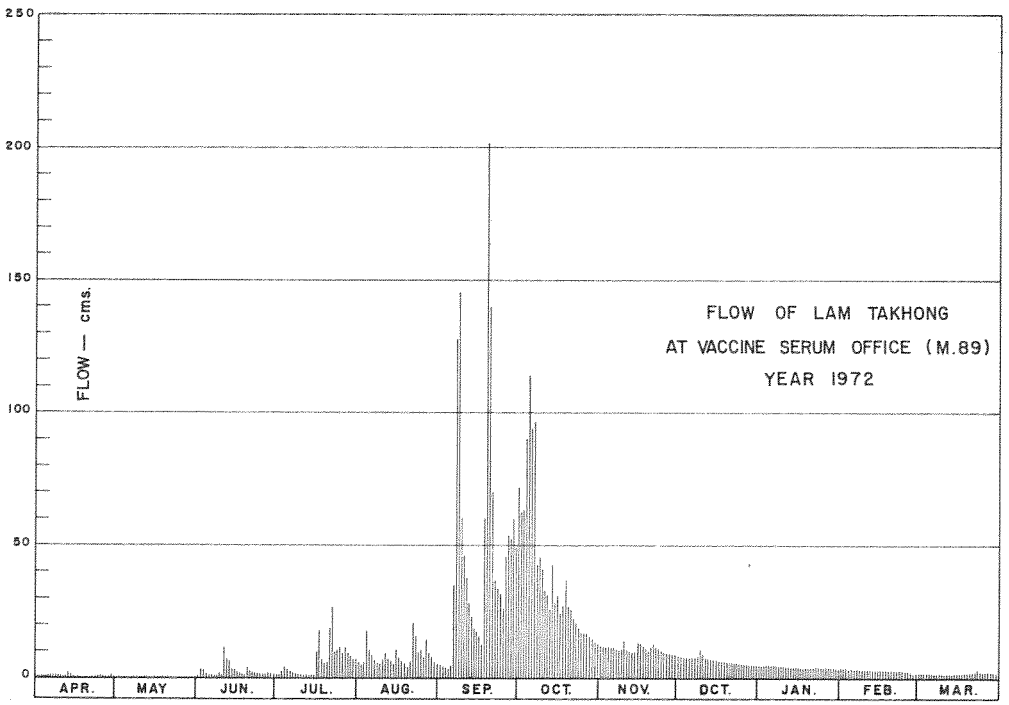
General Description: Records fair. Stage-discharge relation defined by 71 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.18	1.17	1.22	1.26	1.79	1.66	4.55	2.20	1.90	1.67	1.56	1.36
2	.16	.16	.49	.24	.69	.62	.24	.17	.88	.66	.55	.38
3	.15	.16	.46	.51	.77	.60	.28	.12	.88	.66	.55	.37
4	.15	.16	.32	.62	2.49	.55	5.24	.13	.87	.66	.55	.37
5	.16	.14	.31	.54	.22	.62	.64	.16	.85	.66	.53	.37
6	1.18	1.15	1.26	1.44	2.00	3.10	5.14	2.14	1.85	1.66	1.52	1.38
7	.20	.15	.24	.38	1.85	5.99	.23	.10	.84	.65	.51	.36
8	.24	.15	.21	.35	.76	6.36	3.59	.08	1.90	.65	.51	.37
9	.29	.16	.35	.32	.71	4.05	.67	.08	2.04	.64	.51	.36
10	.18	.16	.32	.30	.78	3.75	.56	.29	1.95	.64	.52	.37
11	1.16	1.17	2.12	1.28	1.99	3.46	3.14	2.08	1.88	1.64	1.51	1.37
12	.17	.16	1.81	.28	.85	.07	.16	.03	.86	.63	.51	.37
13	.38	.18	.79	.26	.83	2.80	2.88	.02	.86	.63	.51	.36
14	.20	.17	.53	.26	.73	.55	3.58	.01	.85	.63	.51	.36
15	.19	.17	.44	.30	2.07	.48	.04	.00	.84	.63	.50	.36
16	1.17	1.17	1.38	1.84	1.88	2.35	3.14	2.29	1.82	1.62	1.50	1.36
17	.17	.17	.33	2.49	.82	.23	2.85	.13	.80	.62	.49	.37
18	.16	.17	.30	1.84	.76	4.09	3.01	.07	.79	.62	.49	.37
19	.16	.17	.28	.69	.68	7.49	.33	.03	.79	.60	.51	.37
20	.15	.17	.56	.78	.62	6.25	2.94	.06	.76	.60	.49	.37
21	1.15	1.17	1.43	2.46	1.85	4.25	2.87	2.19	1.75	1.59	1.49	1.42
22	.17	.16	.36	.95	2.64	3.36	.69	.17	.74	.59	.48	.42
23	.15	.17	.33	.02	.30	.22	.61	.08	.73	.60	.48	.46
24	.16	.16	.29	.04	1.98	.19	.51	.05	.73	.59	.47	.43
25	.19	.17	.28	.15	2.04	2.92	.45	.03	.72	.57	.44	.41
26	1.21	1.17	1.28	1.99	1.85	3.66	2.48	2.00	1.72	1.57	1.43	1.42
27	.16	.16	.26	2.15	2.33	.96	.44	1.97	.71	.57	.41	.40
28	.15	.16	.39	.02	.01	.89	.37	.95	.70	.57	.38	.39
29	.30	.15	.32	1.95	1.87	4.14	.33	.93	.69	.56	–	.38
30	.18	.15	.28	.84	.77	3.77	.28	.92	.69	.56	–	.37
31	–	.15	–	.87	.72	–	.24	–	.68	.56	–	.36
Mean	1.19	1.16	1.40	1.72	1.92	3.48	3.34	2.08	1.81	1.62	1.50	1.38
Max.	1.38	1.18	2.12	2.95	2.64	7.49	5.64	2.29	2.04	1.67	1.56	1.46
Min.	1.15	1.14	1.21	1.24	1.62	1.55	2.24	1.92	1.68	1.56	1.38	1.36

WATER YEAR 1972 : Max. 7.49 m. Min. 1.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	0.85	1.10	1.30	6.85	5.10	* 72	13	8.50	5.20	4.10	2.30
2	0.80	0.80	3.40	1.20	5.40	4.70	* 63	12	8.20	5.10	4.00	2.30
3	0.75	0.80	3.10	3.60	6.55	4.50	* 64	12	8.20	5.10	4.00	2.20
4	0.75	0.80	1.70	4.70	18	4.00	* 97	12	8.05	5.10	4.00	2.20
5	0.80	0.70	1.60	3.90	13	4.70	*114	12	7.75	5.10	3.90	2.20
6	0.90	0.75	1.30	2.90	10	* 31	* 94	12	7.75	5.10	3.70	2.30
7	1.00	0.75	1.20	2.30	7.75	* 128	* 97	11	7.60	5.00	3.60	2.10
8	1.20	0.75	1.05	2.00	6.90	* 145	* 43	11	8.50	5.00	3.60	2.20
9	1.45	0.80	2.00	1.70	5.65	* 57	* 46	11	11	4.90	3.60	2.10
10	0.90	0.80	1.70	1.50	6.70	* 48	* 42	14	9.25	4.90	3.70	2.20
11	0.80	0.85	12	1.40	9.85	* 40	32	11	8.20	4.90	3.60	2.20
12	0.85	0.80	7.15	1.40	7.75	* 30	32	10	7.90	4.80	3.60	2.20
13	2.30	0.90	6.85	1.30	7.45	* 24	26	10	7.90	4.80	3.60	2.10
14	1.00	0.85	3.80	1.30	5.95	* 19	43	10	7.75	4.80	3.60	2.10
15	0.95	0.85	2.90	1.50	11	* 18	29	10	7.60	4.80	3.50	2.10
16	0.85	0.85	2.30	7.60	8.20	* 15	32	14	7.30	4.70	3.50	2.10
17	0.85	0.85	1.80	18	7.30	* 13	25	12	7.00	4.70	3.40	2.20
18	0.80	0.85	1.50	7.60	6.40	* 58	29	11	6.85	4.70	3.40	2.20
19	0.80	0.85	1.40	5.40	5.30	* 201	37	10	6.85	4.50	3.60	2.20
20	0.75	0.85	4.10	6.70	4.70	* 140	27	11	6.40	4.50	3.40	2.20
21	0.75	0.85	2.80	18	7.75	* 63	26	13	6.25	4.40	3.40	2.70
22	0.85	0.80	2.10	27	21	* 37	22	12	6.10	4.40	3.30	2.70
23	0.75	0.85	1.80	10	14	* 34	21	11	5.95	4.50	3.30	3.10
24	0.80	0.80	1.45	11	9.70	* 33	19	11	5.95	4.40	3.20	2.80
25	0.95	0.85	1.40	12	11	* 27	17	10	5.80	4.20	2.90	2.60
26	1.05	0.85	1.40	9.85	7.75	* 45	18	10	5.80	4.20	2.80	2.70
27	0.80	0.80	1.30	12	15	* 54	17	9.55	5.65	4.20	2.60	2.50
28	0.75	0.80	2.40	10	10	* 52	16	9.25	5.50	4.20	2.30	2.40
29	1.50	0.75	1.70	9.25	8.05	* 60	15	8.95	5.40	4.10	–	2.30
30	0.90	0.75	1.40	7.60	6.55	* 49	14	8.80	5.40	4.10	–	2.20
31	–	0.75	–	8.05	5.80	–	14	–	5.30	4.10	–	2.10
Total	28.50	25.15	79.70	212.05	276.80	1,444	1,243	332.55	221.65	144.50	97.20	71.80
Mean	0.95	0.81	2.66	6.84	8.93	48.1	40.1	11.1	7.15	4.66	3.47	2.32
Max.	2.30	0.90	12	27	21	201	114	14	11	5.20	4.10	3.10
Min.	0.75	0.70	1.05	1.20	4.70	4.00	14	8.80	5.30	4.10	2.30	2.10
Runoff - mcm.	2.462	2.173	6.886	18.321	23.915	124.762	107.395	28.732	19.150	12.485	8.398	6.203

WATER YEAR 1972 : Max. 201 Min. 0.75 Mean 11.4 Annual Runoff 360.884 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19, 72	16.00	7.75	215				

TONLE SAP RIVER BASIN

Huai Phrom Hot at Highway Bridge, Prachin Buri (TL1)

Location: Lat. 13°-43'-12" N., Long. 102°-28'-06" E., on left bank near Prachin – Aranyaprathet highway bridge, about 7 kilometers west of Aranyaprathet, Amphoe Aranyaphathet, Prachin Buri.

Drainage Area: 571 Sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S.

Location: near the gage site.
Elevation: + 6.020 m. (A.D.)

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

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

Period of Available Gage Records: 1964 to date.

Rating Operation:

Period of Rating: 1964-1965
Rated by Float: –
Rated by Current Meter: 1964-1965

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

Overbank Flow Conditions: No overbank flow.

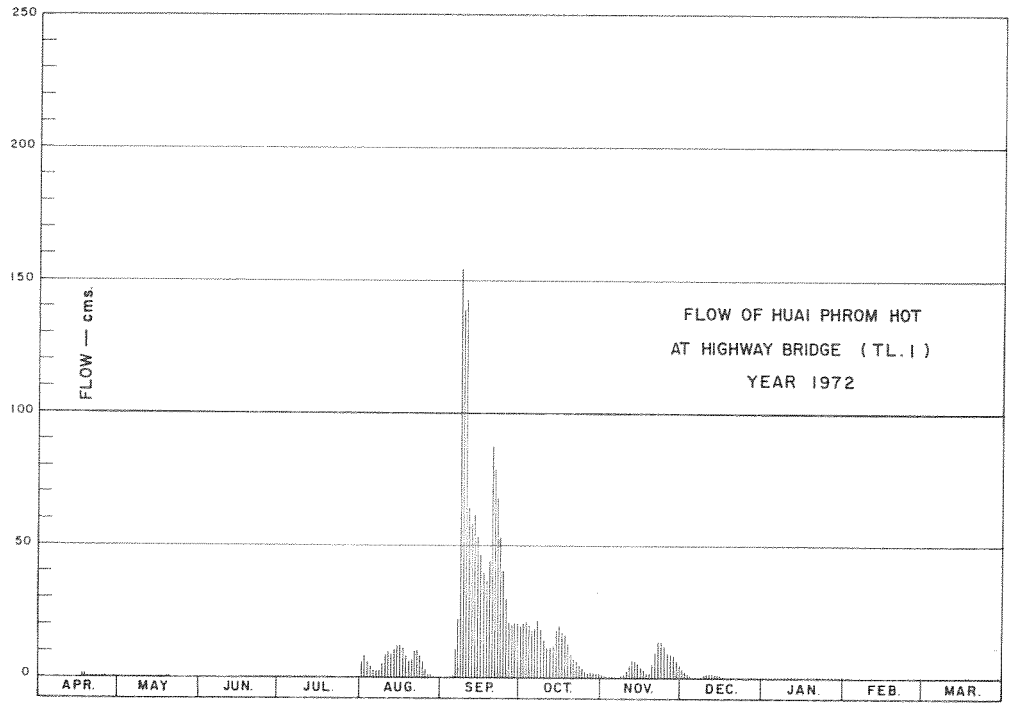
General Description: Records fair. Stage-discharge relation defined by 27 discharge measurements made during 1964-1965.

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

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.94	1.11	0.90	1.02	2.90	1.75	4.33	2.08	2.55	0.98	0.99	0.98
2	.94	.11	.94	.19	3.26	.61	.47	1.97	.44	.99	.99	.98
3	.94	.09	.98	.03	2.95	.47	.41	.91	.22	.99	.99	.98
4	.94	.06	.98	.05	.85	.45	.33	.78	.07	.99	.99	.99
5	.94	.03	.98	.03	.66	.61	.19	.85	1.93	.98	.99	1.00
6	0.94	1.00	0.98	1.01	2.43	3.43	4.19	1.91	1.78	0.98	0.99	0.98
7	.95	0.97	.97	.00	.47	5.01	.55	2.02	.62	.98	.99	.99
8	.95	.96	.97	0.98	.46	6.69	.37	.12	.48	.98	.98	.99
9	.98	.97	.97	.96	.88	.64	.09	.07	2.05	.98	.98	.99
10	1.02	.98	.97	.95	3.27	.65	3.76	.39	.25	.98	.99	.99
11	1.05	0.97	0.98	0.96	3.43	6.23	3.52	2.85	2.30	0.99	1.00	0.99
12	.06	.96	.98	.98	.29	.15	.67	3.01	.33	.99	.00	.97
13	.06	.96	.99	1.06	.37	.21	.66	.00	.22	.99	.00	.97
14	.04	.96	.98	.23	.62	.12	4.12	2.91	.22	.99	.00	.99
15	.03	.96	.98	.31	.68	.02	.39	.70	.11	.99	.00	1.00
16	1.33	0.96	0.98	1.71	3.65	5.91	4.21	2.56	1.93	0.99	1.00	1.01
17	2.07	.96	.97	.90	.49	.67	.04	.45	.71	.98	.00	.02
18	.18	.96	.97	.94	.30	.55	3.86	.32	.56	.99	.01	.01
19	1.90	.96	.97	.92	.04	.94	.72	.41	.40	.98	.00	.01
20	.61	.95	.97	.84	.01	6.41	.30	.98	.35	.98	.00	.00
21	1.45	0.95	0.97	1.74	3.29	6.36	3.14	3.51	1.32	0.98	1.00	1.00
22	.33	.94	1.00	.58	.55	.25	.01	.80	.26	.98	0.99	.00
23	.24	.93	0.98	.59	.42	.07	2.82	.83	.23	.98	.99	.00
24	.21	.93	.97	.78	.19	5.77	.66	.68	.19	.98	.99	.00
25	.17	.92	.97	.10	2.86	.33	.46	.47	.17	.99	.99	.02
26	1.14	0.91	0.97	1.21	2.38	4.47	2.30	3.31	1.19	0.99	0.99	1.02
27	.13	.91	.97	.45	.32	.25	.35	.37	.19	.99	.97	.00
28	.12	.89	.96	.30	.06	.48	.31	.24	.16	.99	.98	0.98
29	.12	.89	.96	.61	1.94	.44	.14	.04	.16	.99	–	.97
30	.11	.89	.96	.66	.86	.21	.25	2.85	.13	.99	–	.97
31	–	.90	–	.68	.79	–	.29	–	.07	.99	–	.99
Mean	1.20	0.96	0.97	1.35	2.92	4.94	3.51	2.71	1.70	0.98	0.99	0.99
Max.	2.18	1.11	1.00	1.94	3.68	6.69	4.55	3.83	2.55	0.99	1.01	1.02
Min.	0.94	0.89	0.90	0.95	1.79	1.45	2.14	1.78	1.07	0.98	0.97	0.97

WATER YEAR 1972 : Max. 6.69 m. Min. 0.89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	0.00	5.50	0.15	20	1.14	3.20	0.00	0.00	0.00
2					8.40	0.00	21	0.81	2.54			
3					5.85	0.00	21	0.63	1.56			
4					5.15	0.00	20	0.24	1.11			
5					3.86	0.00	18	0.45	0.69			
6					2.48	10	18	0.63	0.24			
7					2.72	28	22	0.96	0.00			
8					2.66	154	20	1.26	0.00			
9					5.36	139	17	1.11	1.05			
10					8.50	142	13	2.25	1.65			
11					10	64	11	5.15	1.80			
12					8.70	58	12	6.28	1.95			
13					9.50	62	12	6.20	1.56			
14					12	56	17	5.57	1.56			
15				0.00	13	50	20	4.10	1.23			
16	0.00			0.03	12	45	18	3.26	0.69			
17	1.11			0.60	11	38	17	2.60	0.03			
18	1.44			0.72	8.80	36	15	1.90	0.00			
19	0.60			0.66	6.52	46	13	2.36				
20	0.00			0.42	6.28	87	8.80	6.06				
21				0.12	8.70	79	7.32	11				
22				0.00	11	66	6.28	14				
23				0.00	10	53	4.94	14				
24				0.24	7.72	41	3.86	13				
25				0.00	5.22	32	2.66	10				
26				0.00	2.20	21	1.80	8.90				
27				0.00	1.90	19	2.05	9.50				
28				0.00	1.08	21	1.85	8.20			0.00	
29				0.00	0.72	21	1.32	6.52			–	
30	0.00		0.00	0.00	0.48	18	1.65	5.15			–	
31	–	0.00	–	0.00	0.27	–	1.77	–	0.00	0.00	–	0.00
Total	0.00	0.00	0.00	2.79	197.57	1,386.15	369.30	153.23	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.090	6.37	46.2	11.9	5.11	0.00	0.00	0.00	0.00
Max.	0.00	0.00	0.00	0.72	13	154	22	14	0.00	0.00	0.00	0.00
Min.	0.00	0.00	0.00	0.00	0.27	0.00	1.32	0.24	0.00	0.00	0.00	0.00
Runoff – mcm.	0.00	0.00	0.00	0.241	17.070	119.763	31.907	13.239	0.00	0.00	0.00	0.00

WATER YEAR 1972 : Max. 154 Min. 0.00 Mean 5.84 Annual Runoff 184.295 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8	24.00	6.75	176				

NAKHON NAYOK RIVER BASIN

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, 1955-1957, 1967-1972.
Rated by Float: -
Rated by Current Meter: 1953, 1955-1957, 1967-1972.

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

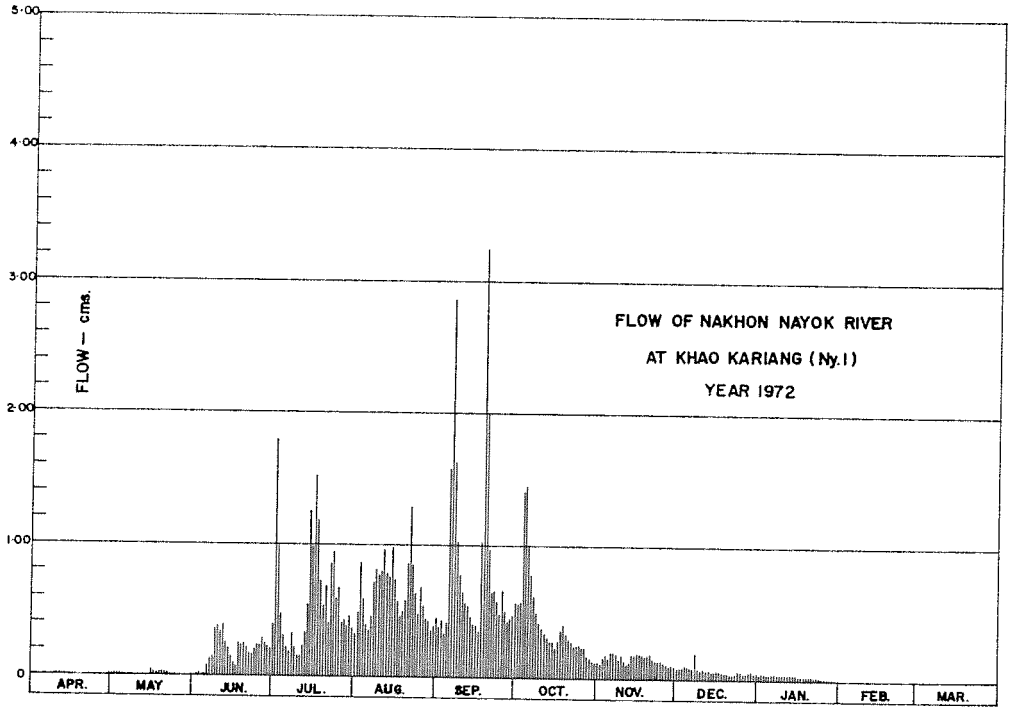
Overbank Flow Conditions: Overbank flow starts at elevation + 9.80 m. (M.S.L.) and is included.

General Description: Records fair except those for period of back water effect from Nakhon Nayok Diversion Dam, which are poor. Stage-discharge relation defined by 22 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.33	3.52	3.43	5.04	4.81	5.14	5.39	4.41	4.22	4.01	3.54	3.43
2	.33	.51	.54	7.57	5.13	4.93	.36	.33	.23	.05	.52	.43
3	.33	.49	.64	5.65	6.01	5.07	.38	.46	.29	.05	.50	.43
4	.33	.48	.59	.06	5.26	4.79	6.98	.56	.34	.00	.49	.43
5	.33	.46	.59	4.71	.02	5.05	7.03	.48	.30	.00	.48	.42
6	3.33	3.45	3.98	4.55	4.90	7.26	6.14	4.63	4.22	4.00	3.47	3.42
7	.33	.44	4.18	.36	5.08	9.07	5.72	.63	.21	.00	.47	.41
8	.41	.44	.20	.79	.70	7.01	.43	.59	.62	.00	.47	.40
9	.43	.44	.89	.43	.92	6.27	.18	.48	.24	.00	.46	.39
10	.46	.44	.97	.27	.81	5.82	.07	.56	.15	.00	.46	.39
11	3.45	3.44	4.80	4.27	5.88	5.58	4.99	4.44	4.16	4.00	3.45	3.39
12	.43	.44	.97	.49	6.20	.40	.95	.32	.09	3.99	.45	.38
13	.42	.44	.59	.84	5.83	.34	.84	.41	.16	.98	.45	.36
14	.40	.44	.42	5.38	.79	.14	.82	.58	.05	.96	.44	.36
15	.40	.44	.31	6.70	6.24	4.98	.83	.58	.07	.95	.44	.36
16	3.40	3.75	4.10	6.17	5.74	4.96	4.67	4.61	4.09	3.92	3.43	3.36
17	.40	.67	3.90	7.15	.42	.83	.79	.60	.09	.88	.43	.41
18	.40	.60	4.56	6.51	.14	6.46	.99	.57	.04	.84	.43	.41
19	.40	.62	.53	5.62	.24	9.55	5.05	.46	.06	.82	.43	.38
20	.40	.64	.57	.29	.44	7.55	4.93	.60	.01	.81	.43	.36
21	3.40	3.61	4.47	5.66	6.18	6.24	4.85	4.67	3.99	3.81	3.43	3.37
22	.40	.57	.35	4.99	.77	5.54	.83	.46	.97	.80	.43	.37
23	.40	.53	.29	5.99	5.67	.59	.71	.45	4.05	.79	.43	.37
24	.40	.49	.37	6.14	.57	.45	.73	.42	.16	.77	.43	.36
25	.39	.46	.54	5.44	.20	.09	.75	.42	.12	.75	.43	.45
26	3.38	3.44	4.53	5.64	5.64	5.58	4.70	4.38	4.03	3.73	3.43	3.45
27	.40	.42	.68	.02	.32	.24	.70	.35	.01	.70	.43	.45
28	.40	.42	.61	.06	.09	.06	.53	.30	.08	.66	.43	.45
29	.46	.42	.51	4.94	.04	.12	.49	.35	.15	.63	-	.45
30	.50	.42	.42	5.13	4.84	.20	.45	.27	.04	.59	-	.45
31	-	.41	-	4.89	.97	-	.38	-	.00	.56	-	.45
Mean	3.39	3.49	4.32	5.35	5.51	5.81	5.08	4.48	4.14	3.87	3.45	3.40
Max.	3.50	3.75	4.97	7.57	6.77	9.55	7.03	4.67	4.62	4.05	3.54	3.45
Min.	3.33	3.41	3.43	4.27	4.81	4.79	4.38	4.27	3.97	3.56	3.43	3.36

WATER YEAR 1972 : Max. 9.55 m. Min. 3.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.030	1.20	0.37	42	33	46	57	13	8.40	5.15	0.70	0.22
2	0.030	1.10	1.40	179	46	38	56	11	8.60	5.75	0.60	0.22
3	0.030	0.91	2.60	69	87	43	57	15	9.80	5.75	0.50	0.22
4	0.030	0.82	1.90	43	51	33	142	18	11	5.00	0.46	0.22
5	0.030	0.64	1.90	30	41	42	145	15	10	5.00	0.42	0.18
6	0.030	0.55	8.60	24	36	159	94	20	8.40	5.00	0.38	0.18
7	0.030	0.46	13	19	44	287	72	20	8.20	5.00	0.38	0.14
8	0.19	0.46	14	33	71	144	59	19	20	5.00	0.38	0.10
9	0.37	0.46	36	21	82	101	48	15	8.80	5.00	0.34	0.090
10	0.64	0.46	39	16	77	77	41	18	7.25	5.00	0.34	0.090
11	0.55	0.46	33	16	80	66	36	14	7.40	5.00	0.30	0.090
12	0.37	0.46	39	23	97	57	34	11	6.35	4.85	0.30	0.080
13	0.28	0.46	26	34	78	55	29	13	7.40	4.70	0.30	0.060
14	0.10	0.46	21	57	76	46	28	18	5.75	4.40	0.26	0.060
15	0.10	0.46	17	125	99	40	28	18	6.05	4.25	0.26	0.060
16	0.10	4.25	11	95	73	39	22	19	6.35	3.80	0.22	0.060
17	0.10	3.05	7.00	152	58	34	27	19	6.35	3.30	0.22	0.14
18	0.10	2.00	25	114	46	111	36	18	5.60	2.90	0.22	0.14
19	0.10	2.30	24	67	50	325	40	15	5.90	2.70	0.22	0.080
20	0.10	2.60	25	52	59	178	33	19	5.15	2.60	0.22	0.060
21	0.10	2.15	22	69	96	99	29	22	4.85	2.60	0.22	0.070
22	0.10	1.70	18	40	129	64	28	15	4.55	2.50	0.22	0.070
23	0.10	1.30	17	86	70	66	23	14	5.75	2.40	0.22	0.070
24	0.10	0.91	19	94	65	60	24	14	7.40	2.20	0.22	0.060
25	0.090	0.64	24	59	48	44	25	14	6.80	2.00	0.22	0.30
26	0.080	0.46	24	68	68	66	23	12	5.45	1.80	0.22	0.30
27	0.10	0.28	29	41	54	50	23	11	5.15	1.50	0.22	0.30
28	0.10	0.28	26	43	44	43	17	10	6.20	1.30	0.22	0.30
29	0.64	0.28	23	38	42	45	16	11	7.25	1.15	–	0.30
30	1.00	0.28	21	46	34	48	14	9.40	5.60	0.95	–	0.30
31	–	0.19	–	36	39	–	12	–	5.00	0.80	–	0.30
Total	5.72	32.03	569.77	1,831	1,973	2,506	1,318	460.40	226.75	109.35	8.78	4.86
Mean	0.19	1.03	20.0	59.1	63.6	83.5	42.5	15.3	7.31	3.53	0.31	0.16
Max.	1.00	4.25	39	179	129	325	145	22	20	5.75	0.70	0.30
Min.	0.030	0.19	0.37	16	33	33	12	9.40	4.55	0.80	0.22	0.060
Runoff - MCM.	0.494	2.767	49.228	158.198	170.467	216.518	113.875	39.778	19.591	9.448	0.758	0.420

WATER YEAR 1972 : Max. 325 Min. 0.030 Mean 24.8 Annual Runoff 781.545 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19, 72	03.00	10.10	371				

PRACHIN RIVER BASIN

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./R.I.D.

Location: at the fence of Amphoe KabinBuri office.
Elevation: + 10.179 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: 1941 to date.

Rating Operation:

Period of Rating: 1941-1943, 1945, 1964 to date.
Rated by Float: -
Rated by Current Meter: 1941-1943, 1945, 1964 to date.

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

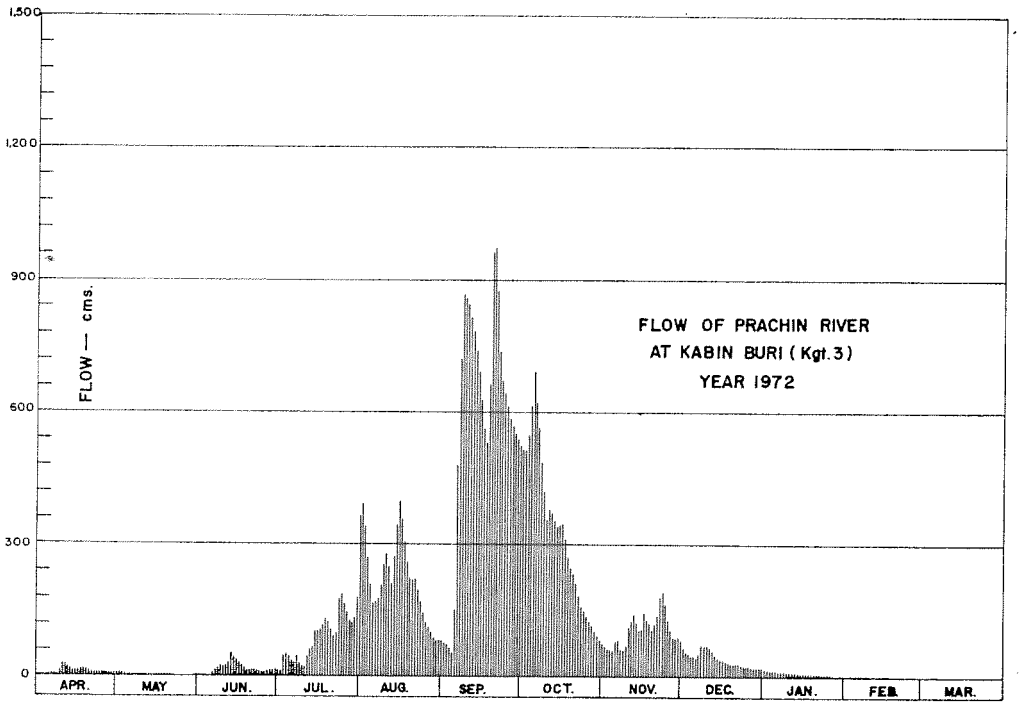
Overbank Flow Conditions: Overbank flow starts at elevation + 8.20 m. (M.S.L.) and is included.

General Description: Records fair. Stage-discharge relation defined by 25 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.44	0.73	0.39	1.13	6.62	2.81	8.64	3.05	3.12	1.46	0.80	0.62
2	.44	.88	.42	.05	.87	.74	.62	2.85	2.83	.40	.79	.62
3	.45	.80	.40	2.04	.16	.67	.60	.77	.60	.35	.78	.62
4	.50	.67	.42	.25	5.41	.59	.91	.74	.46	.32	.78	.62
5	.51	.59	.53	.12	4.66	.92	9.46	.71	.38	.28	.77	.67
6	0.62	0.56	0.86	1.88	4.21	4.59	9.73	3.08	2.30	1.25	0.77	0.63
7	.74	.52	1.09	.70	.20	8.22	.41	.17	.21	.23	.76	.62
8	.67	.49	.32	2.10	.32	9.38	8.91	2.76	.49	.21	.75	.60
9	.97	.46	.44	1.69	.76	10.00	.23	.65	.93	.18	.74	.59
10	1.60	.45	.33	.48	5.43	9.96	7.53	.88	.85	.16	.73	.59
11	1.62	0.44	1.42	1.41	5.70	9.88	7.22	3.67	2.90	1.13	0.72	0.59
12	.33	.43	.72	.98	.22	.75	.48	.89	.86	.10	.72	.58
13	.21	.41	2.20	2.40	4.78	.59	.30	4.19	.62	.06	.71	.57
14	.09	.40	1.93	.52	5.70	.39	.20	3.90	.39	.04	.71	.56
15	.05	.39	.88	3.24	6.40	.16	.03	.54	.24	.01	.70	.55
16	1.03	0.40	1.74	3.25	6.93	8.83	7.08	3.62	2.13	1.00	0.70	0.55
17	.13	.42	.50	.25	.46	.32	.10	4.23	.04	0.99	.70	.56
18	.18	.41	.28	.52	5.97	.03	6.57	.09	1.98	.97	.70	.56
19	.15	.41	.13	.68	.43	9.19	.08	3.81	.91	.95	.69	.55
20	.04	.42	.12	.59	.08	10.44	5.73	.73	.87	.95	.68	.54
21	0.94	0.43	1.08	3.22	4.91	10.53	5.53	3.85	1.85	0.94	0.67	0.54
22	.79	.45	.13	2.96	.98	.27	.22	4.24	.81	.93	.67	.54
23	.69	.48	.10	3.19	.67	9.88	4.94	.77	.77	.92	.66	.59
24	.73	.48	.02	4.35	.29	.65	.53	5.02	.72	.91	.66	.59
25	.71	.46	0.94	.51	3.92	.49	.33	4.68	.69	.90	.65	.59
26	0.77	0.44	0.90	4.20	3.56	9.34	4.16	3.89	1.65	0.89	0.64	0.59
27	.80	.44	1.02	3.93	.42	.19	3.97	.47	.60	.87	.64	.58
28	.74	.41	.09	.65	.31	8.97	.73	.25	.55	.85	.63	.58
29	.72	.40	.08	.54	.06	.88	.61	.26	.51	.84	-	.57
30	.74	.37	.20	.83	2.96	.80	.41	.30	.49	.83	-	.56
31	-	.37	-	4.50	.87	-	.30	-	.49	.81	-	.59
Mean	0.88	0.48	1.16	2.84	4.91	8.11	6.57	3.57	2.17	1.05	0.71	0.58
Max.	1.62	0.88	2.20	4.51	6.93	10.53	9.73	5.02	3.12	1.46	0.80	0.67
Min.	0.44	0.37	0.39	1.05	2.87	2.59	3.30	2.65	1.49	0.81	0.63	0.54

WATER YEAR 1972 : Max: 10.53 m. Min. 0.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.40	6.60	1.90	15	366	79	507	77	81	18	5.00	2.30
2	2.40	9.60	2.20	13	391	76	505	68	67	17	4.85	2.30
3	2.50	8.00	2.00	45	321	72	502	64	56	16	4.70	2.30
4	3.00	5.55	2.20	53	255	68	543	63	51	15	4.70	2.30
5	3.15	4.35	3.45	48	197	85	633	61	48	14	4.55	3.05
6	4.80	3.90	9.20	38	165	192	690	79	45	13	4.55	2.45
7	6.80	3.30	14	31	164	547	624	83	42	13	4.40	2.30
8	5.55	2.90	20	47	173	729	543	64	52	12	4.25	2.00
9	11	2.60	24	31	204	857	456	59	71	12	4.10	1.90
10	28	2.50	21	25	256	848	386	69	68	11	3.95	1.90
11	29	2.40	23	23	280	831	358	110	70	11	3.80	1.90
12	21	2.30	32	42	240	803	381	123	68	10	3.80	1.80
13	17	2.10	51	59	206	771	365	141	57	9.20	3.65	1.70
14	14	2.00	40	65	280	731	356	123	48	8.80	3.65	1.60
15	13	1.90	38	103	344	689	341	103	43	8.20	3.50	1.50
16	13	2.00	33	104	397	636	345	107	39	8.00	3.50	1.50
17	15	2.20	26	104	350	560	347	143	36	7.85	3.50	1.60
18	16	2.10	19	120	304	523	305	135	34	7.55	3.50	1.60
19	16	2.10	15	130	256	694	268	118	31	7.25	3.35	1.50
20	13	2.20	15	124	228	962	242	113	30	7.25	3.20	1.40
21	11	2.30	14	102	216	973	228	120	29	7.10	3.05	1.40
22	7.80	2.50	15	87	221	855	206	144	28	6.95	3.05	1.40
23	5.85	2.80	14	100	198	727	187	176	27	6.80	2.90	1.90
24	6.60	2.80	12	175	171	671	161	192	26	6.65	2.90	1.90
25	6.20	2.60	11	186	145	638	149	170	25	6.50	2.75	1.90
26	7.40	2.40	10	164	123	612	139	123	23	6.35	2.60	1.90
27	8.00	2.40	12	146	114	586	128	99	22	6.05	2.60	1.80
28	6.80	2.10	14	128	108	552	116	87	21	5.75	2.45	1.80
29	6.40	2.00	14	121	93	539	106	88	20	5.60	–	1.70
30	6.80	1.70	17	139	87	528	95	90	19	5.45	–	1.60
31	–	1.70	–	185	82	–	90	–	19	5.15	–	1.90
Total	309.45	95.90	524.95	2,753	6,935	17,434	10,302	3,192	1,296	294.45	102.80	58.10
Mean	10.3	3.09	17.5	88.8	224	581	332	106	41.8	9.50	3.67	1.87
Max.	29	9.60	51	186	397	973	690	192	81	18	5.00	3.05
Min.	2.40	1.70	1.90	13	82	68	90	59	19	5.15	2.45	1.40
Runoff - MCM.	26.736	8.286	45.356	237.859	599.184	1,506.298	890.093	275.789	111.974	25.440	8.882	5.020

WATER YEAR 1972 : Max. 973 Min. 1.40 Mean 119 Annual Runoff 3,740.917 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21, 72	06.00	10.56	993				

PRACHIN RIVER BASIN

Prachin River at Amphoe Si Maha Phot, Prachin Buri (Kgt.6)

Location: Lat. 13°-56'-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 readings at 06.00, 09.00, 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.

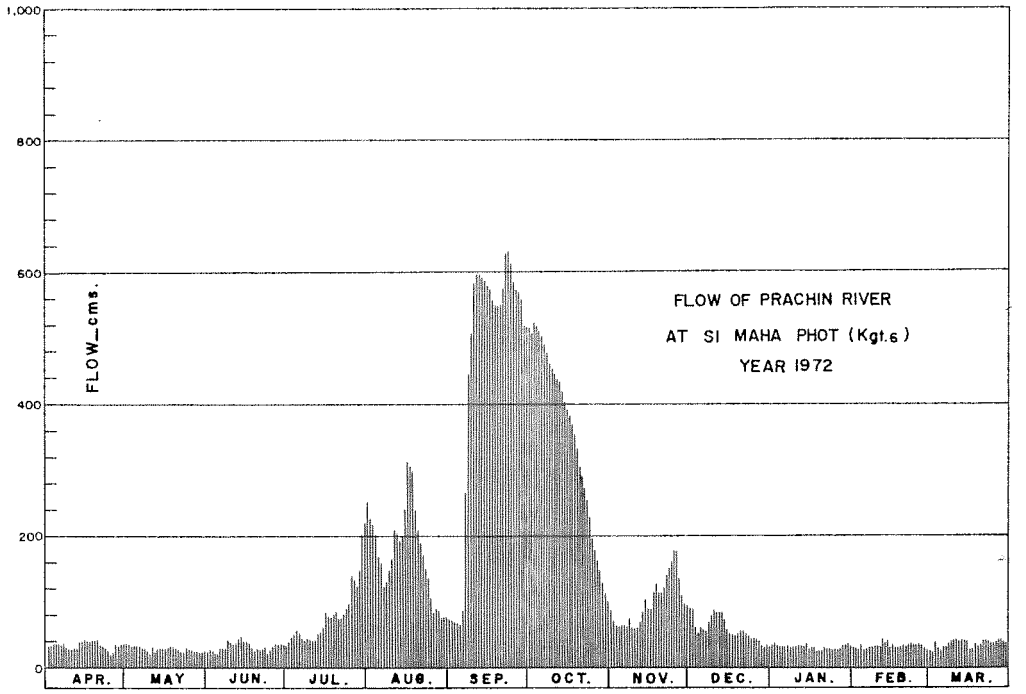
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.38	2.58	2.19	2.58	5.78	3.39	7.73	3.55	3.67	2.61	2.38	2.20
2	.46	.51	.27	.68	.49	.39	.69	.30	.63	.51	.36	.12
3	.54	.46	.18	.89	.42	.33	.77	.22	.07	.44	.34	.54
4	.54	.50	.03	.99	.26	.27	.74	.19	2.94	.40	.53	.35
5	.55	.47	.07	3.09	4.84	.20	.69	.24	3.12	.36	.25	.20
6	2.44	2.39	2.37	2.95	4.74	3.87	7.63	3.20	3.04	2.46	2.33	2.36
7	.55	.33	.34	.74	.24	6.28	.58	.20	.03	.44	.36	.42
8	.32	.27	.39	.72	.33	7.34	.47	.58	.39	.36	.38	.57
9	.30	.16	.69	.79	.62	.72	.39	.12	.58	.38	.41	.63
10	.25	1.99	.57	.72	.91	8.13	.34	.11	.67	.41	.45	.66
11	2.36	2.32	2.56	2.66	5.32	8.20	7.29	3.10	3.56	2.42	2.44	2.66
12	.37	.21	.64	.75	.29	.20	.23	.38	.57	.45	.75	.60
13	.64	.25	.79	.99	.16	.16	.12	.64	.57	.45	.58	.68
14	.64	.36	.85	3.04	.25	.13	.04	.91	.28	.56	.73	.65
15	.67	.34	.71	.20	.79	.10	6.95	.78	.01	.31	.37	.52
16	2.66	2.32	2.67	3.59	6.33	8.07	6.86	3.69	2.92	2.43	2.49	2.34
17	.60	.42	.48	.49	.25	7.98	.77	4.10	.87	.25	.36	.31
18	.72	.46	.33	.49	5.80	.93	.66	.25	.89	.19	.36	.53
19	.69	.39	.28	.59	.67	.93	.49	.06	.96	.20	.39	.44
20	.70	.34	.38	.64	.36	.95	.29	.11	3.01	.26	.41	.55
21	2.48	2.26	2.32	3.43	5.13	8.10	6.11	4.26	3.00	2.37	2.40	2.64
22	.38	.11	.40	.49	4.84	.57	5.94	.47	2.89	.31	.46	.63
23	.31	.18	.48	.60	.56	.38	.72	.65	.80	.26	.54	.63
24	.19	.36	.13	.79	.36	.22	.48	.77	.69	.27	.50	.58
25	1.97	.27	.36	.87	3.87	.12	.16	.95	.78	.34	.49	.56
26	2.17	2.21	2.51	4.46	3.60	8.07	4.94	4.95	2.70	2.26	2.52	2.61
27	.48	.11	.57	.38	.68	.04	.74	.38	.63	.43	.45	.70
28	.44	.19	.52	.23	.63	7.97	.54	3.96	.45	.45	.34	.68
29	.54	.10	.54	.94	.47	.75	.28	.82	.36	.56	-	.56
30	.53	.12	.48	5.43	.50	.74	.04	.76	.53	.55	-	.50
31	-	.15	-	.53	.48	-	3.89	-	.44	.41	-	.35
Mean	2.46	2.29	2.44	3.48	4.84	7.05	6.44	3.81	3.03	2.39	2.44	2.51
Max.	2.72	2.58	2.85	5.53	6.33	8.38	7.77	4.95	3.67	2.61	2.75	2.70
Min.	1.97	1.99	2.03	2.58	3.47	3.20	3.89	3.10	2.36	2.19	2.25	2.12

WATER YEAR : Max. 8.38 m. Min. 1.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31	37	25	37	251	72	515	82	88	38	31	25
2	33	35	27	41	223	72	508	68	86	35	30	23
3	36	33	24	50	216	70	522	64	58	32	29	36
4	36	34	20	54	202	67	517	63	52	31	36	30
5	36	34	22	58	168	64	508	65	60	30	27	25
6	32	31	30	52	160	100	498	64	56	33	29	30
7	36	29	29	44	124	307	490	64	56	32	30	32
8	29	27	31	43	130	452	473	72	72	30	31	37
9	28	24	42	46	151	525	460	60	83	31	32	39
10	27	20	37	43	173	584	452	59	88	32	33	40
11	30	29	36	40	207	597	444	59	82	32	32	40
12	30	25	40	44	204	597	435	72	83	33	44	38
13	40	27	46	54	193	590	418	86	83	33	37	41
14	40	30	48	56	201	584	406	103	67	36	43	40
15	41	29	42	64	252	579	393	90	55	28	30	35
16	40	29	41	84	313	574	381	89	51	32	34	29
17	38	32	34	78	303	558	368	115	49	27	30	28
18	43	33	29	78	253	549	354	125	50	25	30	35
19	42	31	27	84	240	549	332	112	53	25	31	32
20	42	29	31	86	211	553	308	115	55	27	32	36
21	34	27	29	75	190	579	286	125	55	30	31	40
22	31	23	31	78	168	629	268	140	50	28	33	39
23	28	24	34	84	146	631	245	153	46	27	36	39
24	25	30	23	95	132	601	222	162	42	27	34	37
25	19	27	30	100	100	583	193	176	45	29	34	36
26	24	25	35	139	84	574	175	176	42	27	35	38
27	34	23	37	133	89	568	160	133	39	32	33	42
28	32	25	35	123	86	556	145	106	33	33	29	41
29	36	22	36	175	77	518	127	97	30	36	–	36
30	36	23	34	217	79	517	111	94	36	36	–	34
31	–	24	–	227	78	–	101	–	32	32	–	30
Total	1,009	871	985	2,582	5,404	13,799	10,815	2,989	1,777	959	916	1,083
Mean	33.6	28.1	32.8	83.3	174	460	349	99.6	57.3	30.9	32.7	34.9
Max.	43	37	48	227	313	631	522	176	88	38	44	42
Min.	19	20	20	37	77	64	101	59	30	25	27	23
Runoff - MCM.	87.178	75.254	85.104	223.085	466,906	1,192.234	934.416	258.249	153.533	82.858	79.142	93.571

WATER YEAR : Max. 631 Min. 19 Mean 118 Annual Runoff 3,731.530 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 22, 72	12.00	8.40	634				

PRACHIN RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan, Prachin Buri (Kgt.9)

Location: Lat. 13°-40'-10" N., Long. 102°-04'-35" E., on right bank infront of Wat Khao Chakan, Ban Khao Chakan, Amphoe Sa Kaeo, Prachin Buri.

Drainage Area: 2,279 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 side of Wat Khao Chakan School.
Elevation: + 10.239 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967-1970, 1972 to date.

Rating Operation:

Period of Rating: 1969-1970
Rated by Float: -
Rated by Current Meter: 1969-1970

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

Overbank Flow Conditions: No overbank flow.

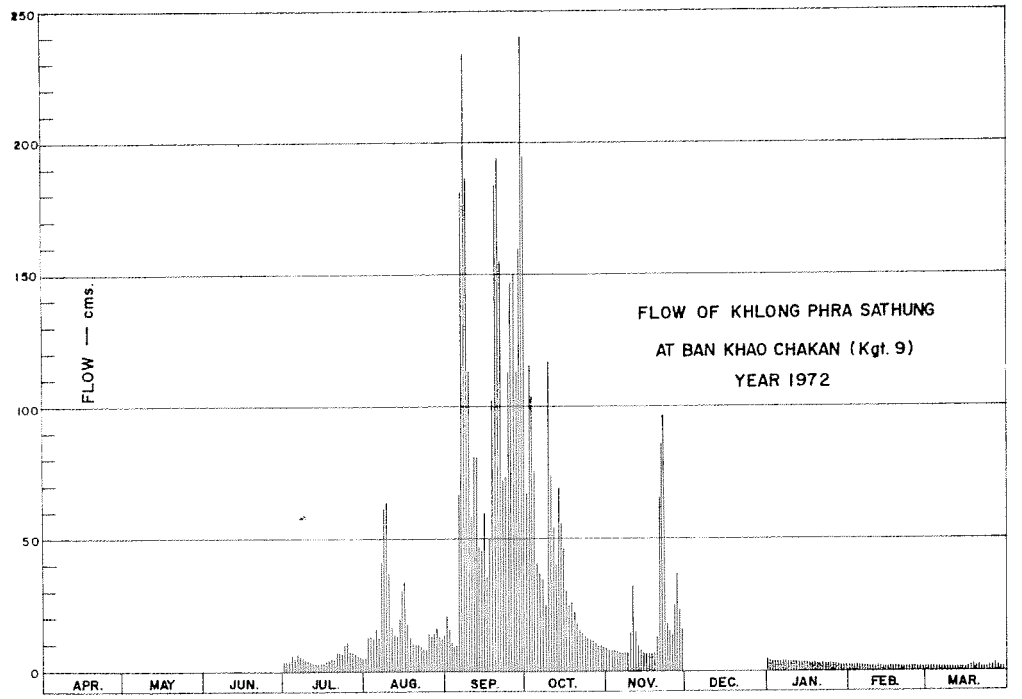
General Description: Records fair. Stage-discharge relation defined by 270 discharge measurements made during 1969-1970.

Remarks: Stream gaging began on July 1, 1972. No gage record on periods December 1-31, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	Stream gaging began on Jul. 1, 72			0.46	0.84	1.63	6.66	0.62		0.52	0.31	0.25
2				.48	1.14	.29	3.46	.79		.51	.31	.26
3				.52	.15	0.99	5.10	.77		.50	.31	.25
4				.66	.06	.88	4.45	.79		.49	.30	.24
5				.82	.34	.95	3.38	.78		.49	.30	.23
6				0.73	1.07	4.03	2.43	0.75		0.48	0.30	0.22
7				.66	2.04	7.18	.32	.74		.47	.29	.21
8				.56	3.36	6.05	.22	.72		.46	.29	.20
9				.52	3.44	6.50	1.75	.70		.46	.29	.19
10				.49	1.97	3.31	5.78	1.15		.45	.29	.18
11				0.44	1.46	3.15	2.81	2.11		0.45	0.28	0.19
12				.40	.24	4.03	3.06	1.26		.44	.28	.18
13				.39	.17	.01	2.47	0.95		.43	.28	.18
14				.38	.42	2.70	3.62	.81		.43	.28	.17
15				.40	2.05	.69	2.99	.75		.42	.27	.16
16				0.39	2.22	3.30	2.68	0.71		0.42	0.27	0.17
17				.47	1.49	2.20	.14	.68		.41	.27	.25
18				.54	.15	3.03	1.76	.68		.41	.27	.28
19				.55	0.98	5.74	.87	.68		.40	.27	.31
20				.55	.98	6.83	.64	1.09		.40	.26	.26
21				1.07	0.97	7.19	1.44	3.21		0.40	0.26	0.30
22				.08	.92	6.14	.28	4.51		.39	.26	.28
23				0.74	.83	3.63	.22	3.57		.38	.26	.26
24				.93	.77	.84	.15	1.43		.38	.26	.24
25				1.01	1.23	5.27	.10	.28		.37	.27	.24
26				0.78	1.15	6.00	1.12	1.17		0.36	0.28	0.31
27				.77	.20	.09	.02	.74		.36	.29	.43
28				.69	.31	5.03	0.96	2.29		.35	.27	.74
29				.62	.16	6.65	.87	1.59		.34	-	.31
30				.60	.08	8.19	.92	.25		.33	-	.28
31				.59	.24	-	.88	-		.32	-	.28
Mean				0.62	1.40	4.35	2.38	1.32		0.42	0.28	0.25
Max.				1.08	3.44	8.19	6.66	4.51		0.52	0.31	0.43
Min.				0.38	0.83	0.88	0.87	0.68		0.32	0.26	0.16

WATER YEAR 1972 : Max. 8.19 m. Min. 0.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				3.50	5.26	21	172	7.98		4.14	2.09	1.60
2				3.70	13	15	65	7.56		4.02	2.09	1.68
3				4.14	13	10	115	7.28		3.90	2.09	1.60
4				5.82	11	8.82	94	7.56		3.80	2.00	1.52
5				4.98	16	9.85	62	7.42		3.80	2.00	1.44
6				6.72	12	81	39	7.00		3.70	2.00	1.36
7				5.82	30	193	36	6.86		3.60	1.92	1.28
8				4.62	62	233	34	6.58		3.50	1.92	1.20
9				4.14	64	166	24	6.30		3.50	1.92	1.14
10				3.80	28	61	117	13		3.40	1.92	1.08
11				3.30	18	57	48	32		3.40	1.84	1.14
12				2.90	14	81	54	15		3.30	1.84	1.08
13				2.81	13	80	40	9.85		3.20	1.84	1.08
14				2.72	18	46	69	7.84		3.20	1.84	1.02
15				2.90	30	45	53	7.00		3.10	1.76	0.96
16				2.81	34	60	45	6.44		3.10	1.76	1.02
17				3.60	19	34	32	6.06		3.00	1.76	1.60
18				4.38	13	54	24	6.06		3.00	1.76	1.84
19				4.50	10	137	26	6.06		2.90	1.76	2.09
20				4.50	10	179	22	12		2.90	1.68	1.68
21				12	10	194	18	58		2.90	1.68	2.00
22				12	9.40	152	15	96		2.81	1.68	1.84
23				6.86	8.12	69	14	68		2.72	1.68	1.68
24				9.55	7.28	75	13	18		2.72	1.68	1.52
25				11	14	121	12	15		2.63	1.76	1.52
26				7.42	13	147	12	13		2.54	1.84	2.09
27				7.28	14	150	11	24		2.54	1.82	3.20
28				6.18	16	112	10	36		2.45	1.76	2.36
29				5.34	13	172	8.68	21		2.36	–	2.09
30				5.10	12	240	9.40	15		2.27	–	1.84
31				4.98	14	–	8.82	–		2.18	–	1.84
Total				169	564	3,004	1,303	550		96.6	51.7	49.4
Mean				5.46	11.74	100.13	42.03	18.33		3.12	1.84	1.59
Max.				12	64	240	172	96		4.14	2.09	3.20
Min.				2.72	5.26	8.82	8.68	6.06		2.18	1.68	0.96
Runoff – MCM.				14.633	48.735	259.546	112.579	47.820		8.346	4.467	4.268

WATER YEAR 1972 : Max. 240 Min. 0.96 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.30,72	18.00	8.31	246				

PRACHIN RIVER BASIN

Khlong Phra Sathung at Ban Wang Khian, Prachin Buri (Kgt.10)

Location: Lat. 13°-48'-29" N., Long. 102°-03'-35" E., on left bank near Saha Charoen Saw Mill, Ban Wang Khian, Amphoe Sa Kaeo, PrachinBuri.

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: Stable, no shifting adjustment for flow computation.

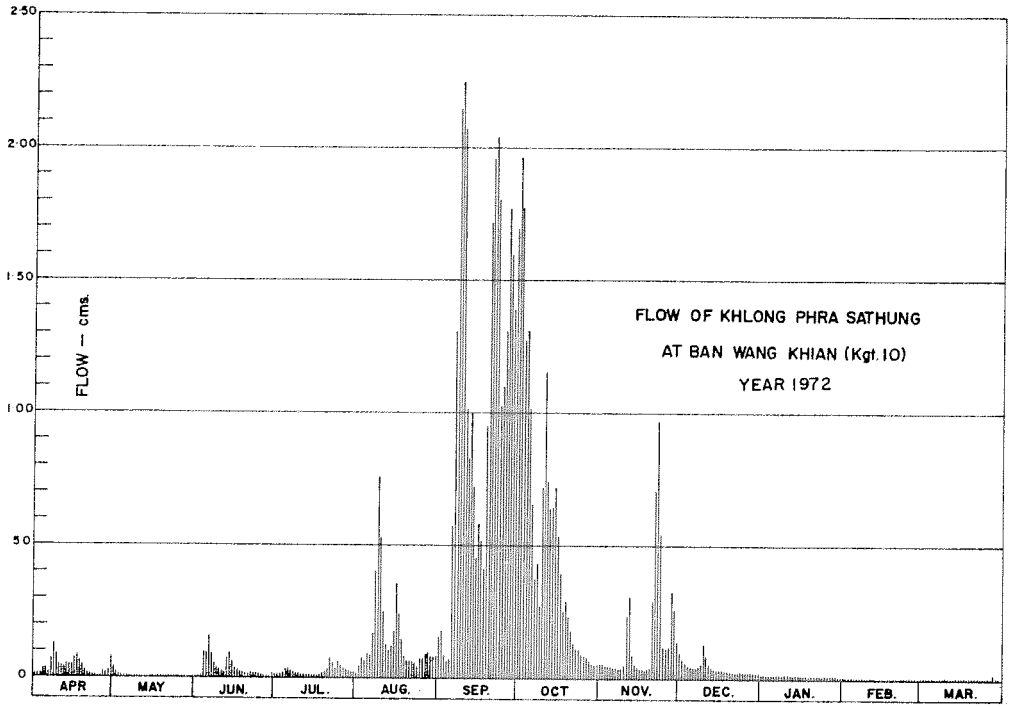
Overbank Flow Conditions: Overbank flow starts at elevation + 34.55 m. (M.S.L.) and is included

General Description: Records good. Stage-discharge relationship defined by 31 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	24.97	25.46	24.71	25.09	25.23	26.65	34.23	25.69	26.05	25.11	24.87	24.80
2	.97	.09	.71	.01	.60	.81	33.66	.68	25.86	.10	.85	.78
3	25.00	24.99	.86	.04	.94	.14	32.40	.56	.73	.09	.84	.78
4	.34	.92	26.14	.10	.79	25.81	.55	.53	.63	.08	.84	.78
5	.37	.87	.08	.33	26.08	.89	31.64	.52	.58	.07	.84	.75
6	25.02	24.84	26.66	25.40	26.01	28.81	29.34	25.50	25.54	25.07	24.83	24.74
7	.81	.82	25.96	.27	.70	33.51	28.04	.47	.50	.06	.82	.73
8	26.49	.81	.60	.18	28.40	34.50	.48	.46	.51	.06	.82	.71
9	.17	.79	.58	.10	30.29	.75	27.36	.44	.63	.05	.82	.70
10	25.60	.77	.35	.06	28.76	.29	30.36	.60	26.46	.04	.82	.70
11	25.57	24.76	25.15	25.02	26.98	31.91	31.98	27.20	25.91	25.03	24.81	24.70
12	.44	.74	.14	24.98	.36	30.60	29.93	.73	.62	.02	.80	.69
13	.60	.73	.96	.94	.18	31.38	.74	26.08	.51	.02	.80	.69
14	.60	.73	26.08	.94	.32	30.03	.68	25.70	.46	.02	.80	.69
15	.57	.74	25.71	.92	.84	28.51	30.16	.56	.44	.00	.79	.69
16	25.91	24.73	25.43	24.93	18.04	29.40	29.22	25.50	25.41	24.99	24.78	24.69
17	.98	.73	.26	.91	27.22	28.92	28.20	.45	.35	.96	.77	.69
18	.77	.78	.21	25.06	26.38	.18	27.36	.41	.32	.95	.78	.71
19	.57	.78	.10	.10	25.96	31.53	.64	.40	.30	.95	.79	.80
20	.24	.75	.07	.11	.77	33.72	.37	.45	.31	.97	.78	.84
21	25.09	24.74	25.17	25.37	25.77	34.23	26.92	27.55	25.29	24.95	24.78	24.79
22	24.99	.74	.07	.87	.74	.36	.47	30.33	.26	.95	.78	.81
23	.92	.78	.09	.61	.64	33.74	.23	31.25	.24	.94	.78	.80
24	.88	.78	.05	.32	.48	31.46	.24	28.27	.23	.94	.77	.77
25	.88	.76	24.95	.75	.86	.83	.01	26.39	.21	.93	.77	.75
26	24.87	24.73	24.90	25.53	25.90	32.71	25.96	26.24	25.19	24.93	24.78	24.73
27	25.19	.72	.91	.38	26.00	33.82	.94	.32	.18	.91	.80	.76
28	.14	.72	.87	.32	.14	.20	.80	27.89	.18	.91	.79	.96
29	.24	.71	.86	.25	25.96	32.76	.67	.40	.16	.90	-	.87
30	.87	.70	25.05	.17	.95	33.61	.57	26.49	.15	.89	-	.84
31	-	.71	-	.14	.89	-	.69	-	.13	.87	-	.81
Mean	25.40	24.80	25.32	25.20	26.42	31.10	28.57	26.43	25.46	24.99	24.80	24.79
Max.	26.49	25.46	26.66	25.87	30.29	34.75	34.23	31.25	26.46	25.11	24.87	24.96
Min.	24.87	24.70	24.71	24.91	25.23	25.81	25.57	25.40	25.13	24.87	24.77	24.69

WATER YEAR 1972 : Max. 34.75 m. Min. 24.69 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.35	3.96	0.33	1.95	2.65	15	197	5.72	9.00	2.05	0.88	0.60
2	1.35	1.95	0.33	1.55	5.00	18	170	5.64	7.14	2.00	0.80	0.54
3	1.50	1.45	0.84	1.70	7.90	9.90	127	4.68	6.04	1.95	0.76	0.54
4	3.24	1.10	9.90	2.00	6.52	6.69	131	4.44	5.25	1.90	0.76	0.54
5	3.42	0.88	9.30	3.18	9.30	7.41	106	4.36	4.84	1.85	0.76	0.45
6	1.60	0.76	16	3.60	8.60	48	57	4.20	4.52	1.85	0.72	0.42
7	6.69	0.68	8.10	2.85	16	164	36	4.02	4.20	1.80	0.68	0.39
8	13	0.64	5.00	2.40	41	211	43	3.96	4.28	1.80	0.68	0.33
9	10	0.57	4.84	2.00	75	225	25	3.84	5.24	1.75	0.68	0.30
10	5.00	0.51	3.30	1.80	47	200	76	5.00	13	1.70	0.68	0.30
11	4.76	0.48	2.25	1.60	20	113	115	23	7.60	1.65	0.64	0.30
12	3.84	0.42	2.20	1.40	12	82	68	31	5.16	1.60	0.60	0.27
13	5.00	0.39	8.10	1.20	10	100	64	9.30	4.28	1.60	0.60	0.27
14	5.00	0.39	9.30	1.20	12	70	63	5.80	3.96	1.60	0.60	0.27
15	4.76	0.42	5.88	1.10	18	43	72	4.68	3.84	1.50	0.57	0.27
16	7.60	0.39	3.78	1.15	36	58	55	4.20	3.66	1.45	0.54	0.27
17	8.30	0.39	2.80	1.05	23	50	38	3.90	3.30	1.30	0.51	0.27
18	6.36	0.54	2.55	1.80	12	38	25	3.66	3.12	1.25	0.54	0.33
19	4.76	0.54	2.00	2.00	8.10	103	29	3.60	3.00	1.25	0.57	0.60
20	2.70	0.45	1.85	2.05	6.36	173	25	3.90	3.06	1.35	0.54	0.76
21	1.95	0.42	2.35	3.42	6.36	197	19	28	2.95	1.25	0.54	0.57
22	1.45	0.42	1.85	7.23	6.12	204	13	76	2.80	1.25	0.54	0.64
23	1.10	0.54	1.95	5.08	5.32	174	11	97	2.70	1.20	0.54	0.60
24	0.92	0.54	1.75	3.12	4.08	102	11	39	2.65	1.20	0.51	0.51
25	0.92	0.48	1.25	6.20	7.14	111	8.60	12	2.55	1.15	0.51	0.45
26	0.88	0.39	1.00	4.44	7.50	136	8.10	11	2.45	1.15	0.54	0.39
27	2.45	0.36	1.05	3.48	8.50	177	7.90	12	2.40	1.05	0.60	0.48
28	2.20	0.36	0.88	3.12	9.90	153	6.60	33	2.40	1.05	0.57	1.30
29	2.70	0.33	0.84	2.75	8.10	138	5.56	26	2.30	1.00	–	0.88
30	7.23	0.30	1.75	2.35	8.00	168	4.76	13	2.25	0.96	–	0.76
31	–	0.33	–	2.20	7.41	–	5.72	–	2.15	0.88	–	0.64
Total	122.03	21.38	113.32	80.97	454.86	3,295	1,623.24	485.90	132.09	45.34	17.46	15.24
Mean	4.07	0.69	3.78	2.61	14.7	110	52.4	16.2	4.26	1.46	0.62	0.49
Max.	13	3.96	16	7.23	75	225	197	97	13	2.05	0.88	1.30
Min.	0.88	0.30	0.33	1.05	2.65	6.69	4.76	3.60	2.15	0.88	0.51	0.27
Runoff - mcm.	10.543	1.847	9.791	6.996	39.300	284.688	140.248	41.982	11.412	3.917	1.508	1.317

WATER YEAR 1972 : Max. 225 Min. 0.27 Mean 17.5 Annual Runoff 553.550 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9, 72	07.00	34.77	227				

PRACHIN RIVER BASIN

Khlong Phra Prong at Ban Kaeng, Prachin Buri (Kgt.12)

Location: Lat. 13°-56'-02" N., Long. 101°-58'-41" E., on left bank near Ban Kaeng railway station about 200 meters upstream from Wetsaphan Sawmill, Amphoe Sa Kaen, 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.

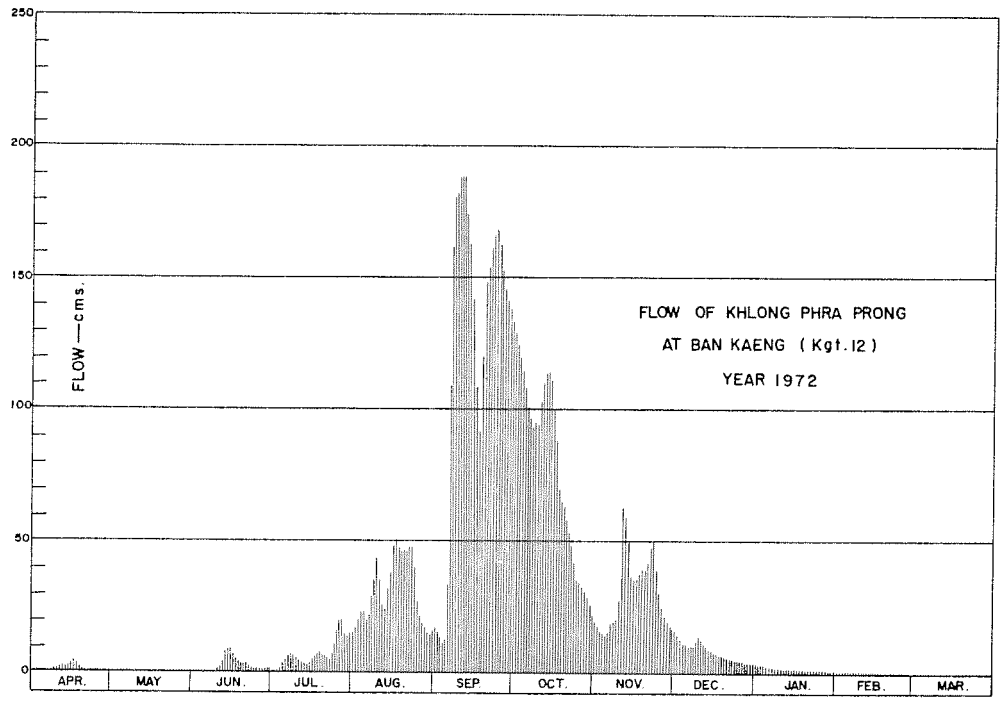
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 25 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.43	0.50	0.39	0.70	2.15	2.27	7.04	2.38	2.16	1.08	0.73	0.53
2	.43	.50	.41	.70	.24	.20	6.84	.29	.05	.05	.72	.52
3	.43	.51	.40	.75	.46	.01	.70	.20	1.97	.03	.71	.52
4	.44	.51	.38	.89	.64	1.81	.50	.12	.84	.01	.68	.54
5	.44	.48	.38	1.05	.65	.99	.28	.04	.78	.00	.68	.52
6	0.49	0.47	0.40	1.28	2.54	3.47	6.07	2.14	1.74	0.98	0.68	0.49
7	.56	.45	.42	.40	.69	8.07	5.79	.32	.71	.97	.66	.49
8	.71	.43	.51	.48	3.02	.51	.74	.41	.72	.93	.65	.47
9	.75	.41	.55	.49	.45	.67	.82	.43	.93	.91	.64	.47
10	.72	.40	.61	.38	.66	.84	.78	.74	2.04	.90	.64	.47
11	0.76	0.40	0.92	1.24	3.18	8.83	6.01	4.06	1.96	0.90	0.64	0.46
12	.97	.40	1.17	.11	2.79	.54	.25	.52	.81	.87	.62	.44
13	.90	.38	.51	.03	.72	.21	.37	.35	.70	.87	.62	.44
14	.85	.37	.65	.01	3.00	7.95	.46	3.74	.63	.86	.62	.43
15	.98	.36	.68	.10	.40	.55	.40	.31	.58	.85	.61	.43
16	1.24	0.35	1.53	1.23	3.80	6.88	6.17	3.29	1.52	0.84	0.60	0.44
17	.14	.35	.33	.36	.98	.16	5.61	.35	.50	.82	.60	.45
18	.07	.35	.19	.53	.92	5.65	4.91	.45	.46	.83	.59	.45
19	0.99	.35	.09	.56	.80	6.70	.63	.51	.42	.82	.58	.45
20	.82	.35	.08	.52	.86	7.51	.59	.48	.38	.83	.58	.45
21	0.72	0.36	1.10	1.43	3.84	7.76	4.40	3.59	1.34	0.83	0.58	0.44
22	.65	.37	.00	.35	.86	.95	.07	.81	.29	.83	.56	.47
23	.63	.36	0.91	.28	.90	8.13	3.77	.99	.28	.82	.55	.50
24	.63	.38	.84	.43	.57	.23	.54	.77	.27	.81	.55	.47
25	.60	.37	.79	.96	.02	.09	.30	.05	.24	.79	.55	.49
26	0.58	0.36	0.77	2.37	2.63	7.84	3.25	2.79	1.21	0.78	0.55	0.49
27	.55	.34	.77	.48	.41	.60	.13	.65	.18	.78	.53	.47
28	.55	.33	.73	.29	.33	.42	.06	.54	.17	.77	.53	.47
29	.55	.35	.71	.07	.18	.34	2.90	.41	.15	.75	-	.53
30	.53	.38	.71	.07	.05	.22	.70	.30	.04	.74	-	.49
31	-	.39	-	.14	.17	-	.51	-	.11	.73	-	.50
Mean	0.70	0.40	0.86	1.44	3.03	6.65	5.05	3.03	1.56	0.87	0.62	0.46
Max.	1.24	0.51	1.68	2.48	3.98	8.84	7.04	4.52	2.16	1.08	0.73	0.54
Min.	0.43	0.33	0.38	0.70	2.05	1.81	2.51	2.04	1.11	0.73	0.53	0.43

WATER YEAR 1972 : Max. 8.84 m. Min. 0.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.19	0.40	0.09	1.10	15	17	131	19	16	3.44	1.25	0.49
2	0.19	0.40	0.13	1.10	17	16	126	17	14	3.20	1.20	0.46
3	0.19	0.43	0.10	1.35	20	13	121	16	13	3.04	1.15	0.46
4	0.22	0.43	0.08	2.14	23	11	115	15	11	2.88	1.02	0.52
5	0.22	0.34	0.08	3.20	23	13	108	14	11	2.80	1.02	0.46
6	0.37	0.31	0.10	5.04	20	39	102	15	10	2.68	1.02	0.37
7	0.58	0.25	0.16	6.20	23	163	95	18	9.82	2.62	0.94	0.37
8	1.15	0.19	0.43	7.08	30	177	93	19	9.94	2.38	0.90	0.31
9	1.35	0.13	0.55	7.19	38	182	95	20	12	2.26	0.86	0.31
10	1.20	0.10	0.74	6.00	43	188	94	25	14	2.20	0.86	0.31
11	1.40	0.10	2.32	4.72	33	188	101	51	13	2.20	0.86	0.28
12	2.62	0.10	4.16	3.68	26	178	108	62	11	2.02	0.78	0.22
13	2.20	0.08	7.42	3.04	24	168	111	58	9.70	2.02	0.78	0.22
14	1.90	0.07	9.10	2.88	30	159	114	44	8.86	1.96	0.78	0.19
15	2.68	0.06	9.46	3.60	37	147	112	36	8.26	1.90	0.74	0.19
16	4.72	0.05	7.66	4.64	46	126	105	35	7.54	1.84	0.70	0.22
17	3.92	0.05	5.50	5.80	50	105	90	36	7.30	1.72	0.70	0.25
18	3.36	0.05	4.32	7.66	48	91	72	38	6.86	1.78	0.67	0.25
19	2.74	0.05	3.52	8.02	46	121	65	40	6.42	1.72	0.64	0.25
20	1.72	0.05	3.44	7.54	47	145	64	39	6.00	1.78	0.64	0.25
21	1.20	0.06	3.60	6.53	46	153	59	41	5.60	1.78	0.64	0.22
22	0.90	0.07	2.80	5.70	47	159	52	46	5.12	1.78	0.58	0.31
23	0.82	0.06	2.26	5.04	48	165	45	50	5.04	1.78	0.55	0.40
24	0.82	0.08	1.84	6.53	41	168	40	45	4.96	1.66	0.55	0.31
25	0.70	0.07	1.55	13	30	164	35	31	4.72	1.55	0.55	0.37
26	0.64	0.06	1.45	19	23	156	34	26	4.48	1.50	0.55	0.37
27	0.55	0.04	1.45	20	19	148	32	23	4.24	1.50	0.49	0.31
28	0.55	0.03	1.25	17	18	143	31	20	4.16	1.45	0.49	0.31
29	0.55	0.05	1.15	14	16	140	28	19	4.00	1.35	–	0.49
30	0.49	0.08	1.15	14	14	137	24	18	3.92	1.30	–	0.37
31		0.09	–	15	16	–	21	–	3.68	1.25	–	0.40
Total	40.14	4.33	77.86	227.76	957	3,780	2,423	936	255.62	63.28	21.91	10.24
Mean	1.34	0.14	2.59	7.35	30.9	126	78.2	31.2	8.24	2.04	0.78	0.33
Max.	4.72	0.43	9.46	20	50	188	131	62	16	3.44	1.25	0.52
Min.	0.19	0.03	0.08	1.10	14	11	21	14	3.68	1.25	0.49	0.19
Runoff – mcm.	3.468	0.374	6.727	19.678	82.685	326.592	209.347	80.876	22.085	5.467	1.893	0.885

WATER YEAR 1972 : Max. 188 Min. 0.03 Mean 24.1 Annual Runoff 760.144 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 10, 72	24.00	8.93	191				

PRACHIN RIVER BASIN

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 Nang Leng, Amphoe Kabin Buri, 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 + 0.155 m. (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: 3-5 time daily readings at 06.00, 12.00, 18.00 on April - May, January - March and 06.00, 09.00, 12.00, 15.00, 18.00 hours on June - December.

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

Period of Available Gage Records: 1967 to date.

Rating Operation:

Period of Rating: 1967-1968, 1971 to date.
Rated by Float: -
Rated by Current Meter: 1967-1968, 1971 to date.

Stability of Channel Regimes: Fairly stable because of back water effect, no shifting adjustment for flow computation.

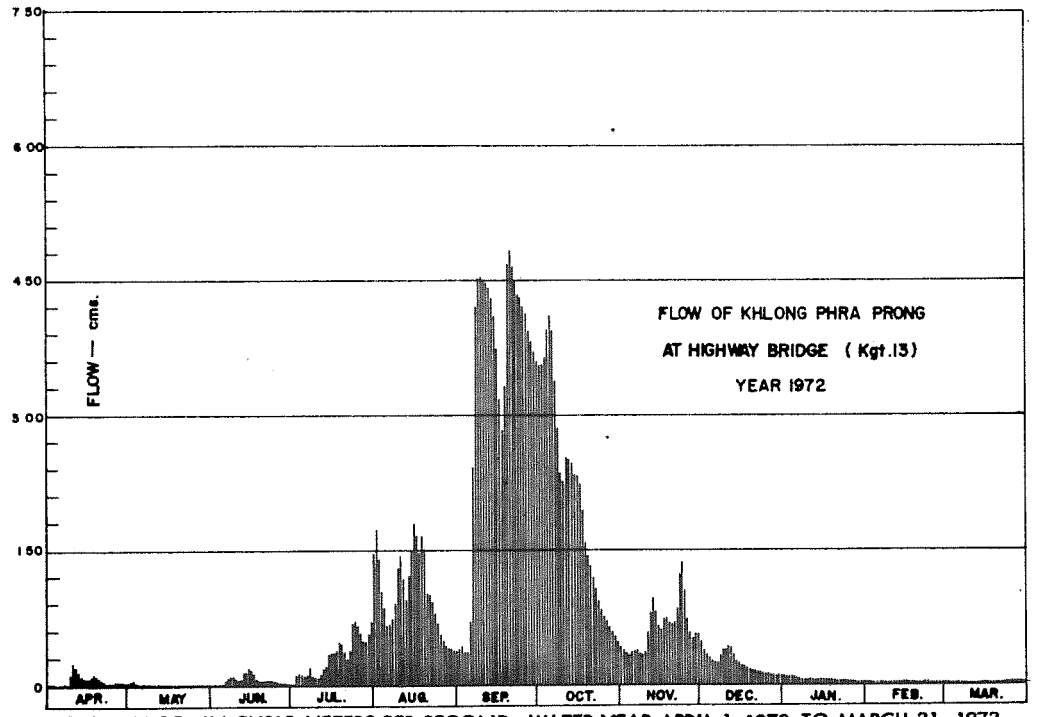
Overbank Flow Conditions: Overbank flow starts at elevation + 10.35 m. (M.S.L.)

General Description: Records good. Stage-discharge relation defined by 25 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.24	1.57	1.10	1.38	6.54	3.45	9.82	3.60	3.85	2.06	1.50	1.33
2	.24	.83	.15	.38	7.07	.56	.76	.47	.42	.00	.50	.33
3	.29	.69	.13	2.10	6.31	.61	.78	.36	.29	1.96	.48	.33
4	.44	.48	.13	.33	5.63	.40	.88	.31	.15	.91	.50	.33
5	.32	.38	.13	.24	4.91	.41	10.18	.24	.02	.89	.46	.34
6	1.50	1.34	1.77	2.06	4.50	4.77	10.34	3.41	2.92	1.86	1.46	1.33
7	.60	.31	.98	.02	.52	8.91	.10	.52	.86	.84	.46	.32
8	.49	.27	2.10	.35	.72	10.35	9.54	.34	3.21	.81	.43	.31
9	2.09	.25	1.91	.10	5.33	.71	8.90	.31	.50	.80	.44	.29
10	.87	.24	.76	1.97	6.14	.73	.22	.42	.50	.77	.42	.29
11	2.67	1.22	1.78	1.86	6.31	10.70	8.03	4.16	3.67	1.75	1.41	1.29
12	.38	.20	2.00	2.08	5.75	.66	.49	.94	.59	.75	.41	.28
13	.15	.19	.37	.53	.19	.61	.44	5.32	.29	.72	.40	.27
14	.01	.18	.33	.61	.96	.51	.40	4.86	.05	.70	.40	.27
15	1.97	.18	.56	3.30	6.63	.31	.18	.36	2.91	.70	.40	.26
16	1.91	1.17	2.48	3.33	7.23	9.92	8.16	4.24	2.80	1.68	1.39	1.26
17	2.09	.16	.21	.34	6.95	.31	.02	.70	.71	.66	.38	.25
18	.23	.15	1.96	.52	.43	8.85	7.35	.69	.64	.65	.38	.25
19	.09	.15	.83	.81	.92	9.73	6.76	.54	.56	.63	.37	.25
20	1.99	.15	.79	.72	.55	10.84	.42	.50	.51	.63	.37	.25
21	1.79	1.15	1.71	3.37	5.40	10.99	6.22	4.58	2.46	1.62	1.36	1.25
22	.63	.17	.73	.12	.40	.84	5.89	5.04	.43	.61	.36	.25
23	.54	.17	.72	3.33	.17	.66	.55	.93	.38	.59	.36	.30
24	.53	.15	.65	4.47	4.83	.55	.13	6.28	.34	.58	.35	.30
25	.55	.14	.59	.65	.44	.48	4.92	5.63	.28	.57	.34	.31
26	1.68	1.14	1.54	4.39	4.00	10.38	4.74	4.62	2.25	1.56	1.34	1.31
27	.68	.14	.47	.16	3.90	.28	.56	.18	.22	.55	.34	.30
28	.58	.14	.47	3.89	.68	.15	.40	3.98	.15	.54	.33	.30
29	.59	.14	.43	.79	.60	.03	.22	4.15	.11	.43	-	.26
30	.56	.11	.41	4.00	.49	9.93	.02	.15	.10	.42	-	.29
31	-	.10	-	.62	.42	-	3.85	-	.09	.42	-	.36
Mean	1.79	1.25	1.74	3.03	5.38	8.66	7.36	4.23	2.81	1.70	1.40	1.29
Max.	2.87	1.83	2.56	4.65	7.23	10.99	10.34	6.28	3.85	2.06	1.50	1.36
Min.	1.24	1.10	1.10	1.38	3.42	3.40	3.85	3.24	2.09	1.42	1.33	1.25

WATER YEAR 1972 : Max. 10.99 m. Min. 1.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	3.20	0.25	1.40	147	38	359	41	48	9.40	2.50	1.15
2	0.70	5.95	0.37	1.40	171	40	354	38	37	8.50	2.50	1.15
3	0.95	4.40	0.32	10	136	42	356	35	34	7.90	2.30	1.15
4	1.90	2.30	0.32	13	108	36	365	34	30	7.15	2.50	1.15
5	1.10	1.40	0.32	12	81	37	394	32	27	6.85	2.10	1.20
6	2.50	1.20	5.20	9.40	67	76	410	37	25	6.40	2.10	1.15
7	3.50	1.05	8.20	8.80	68	282	386	39	24	6.10	2.10	1.10
8	2.40	0.85	10	14	75	411	334	35	32	5.65	1.80	1.05
9	9.85	0.75	7.15	10	96	451	281	34	39	5.50	1.90	0.95
10	24	0.70	5.10	8.05	129	453	235	37	39	5.20	1.70	0.95
11	20	0.60	5.30	6.40	136	449	223	57	43	5.00	1.60	0.95
12	14	0.50	8.50	9.70	113	445	252	82	41	5.00	1.60	0.90
13	11	0.47	14	17	91	460	248	96	34	4.70	1.50	0.85
14	8.65	0.45	13	19	121	429	245	80	28	4.50	1.50	0.85
15	8.05	0.45	18	34	151	407	232	63	25	4.50	1.50	0.80
16	7.15	0.42	16	35	179	368	231	60	22	4.30	1.45	0.80
17	9.85	0.40	12	35	165	314	223	74	21	4.10	1.40	0.75
18	12	0.37	7.90	39	142	277	185	74	19	4.00	1.40	0.75
19	9.85	0.37	5.95	47	164	351	157	69	18	3.80	1.35	0.75
20	8.35	0.37	5.40	44	147	465	141	67	17	3.80	1.35	0.75
21	5.40	0.37	4.60	36	99	482	132	70	16	3.70	1.30	0.75
22	3.80	0.42	4.80	29	99	465	119	86	15	3.60	1.30	0.75
23	2.90	0.42	4.70	35	90	445	105	120	14	3.40	1.30	1.00
24	2.80	0.37	4.00	67	78	433	89	135	14	3.30	1.25	1.00
25	3.00	0.35	3.40	72	66	425	82	108	13	3.20	1.20	1.05
26	4.30	0.35	2.90	64	52	414	75	71	12	3.10	1.20	1.05
27	4.30	0.35	2.20	57	49	404	69	58	12	3.00	1.20	1.00
28	3.30	0.35	2.20	49	43	391	64	52	11	2.90	1.15	1.00
29	3.40	0.35	1.80	46	41	379	59	57	10	1.80	–	0.80
30	3.10	0.27	1.60	52	39	369	53	57	10	1.70	–	0.90
31	–	0.25	–	71	37	–	48	–	9.85	1.70	–	1.30
Total	192.80	30.05	175.48	952.15	3,180	10,018	6,506	1,898	739.85	143.75	46.05	29.80
Mean	6.43	0.97	5.85	30.7	102	334	210	63.3	23.9	4.64	1.64	0.96
Max.	24	5.95	18	72	179	482	410	135	48	9.40	2.50	1.30
Min.	0.70	0.25	0.25	1.40	37	36	48	32	9.85	1.70	1.15	0.75
Runoff – mcm.	16.658	2.596	15.161	82.266	274.752	865.555	562.118	163.987	63.923	12.420	3.979	2.575

WATER YEAR 1972 : Max. 482 Min. 0.25 Mean 65.5 Annual Runoff 2,065.991 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21, 72	06.00	11.01	484				

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: Fairly stable by some scouring, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

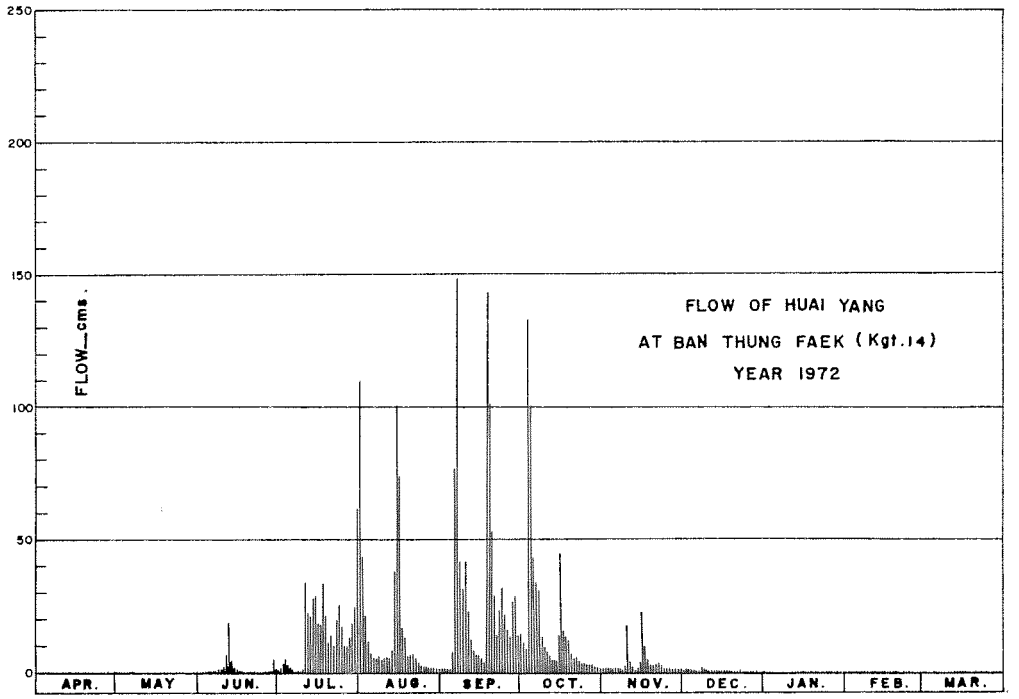
General Description: Records good. Stage-discharge relation defined by 26 discharge measurements made in 1972.

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

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.71	34.82	34.66	35.03	38.19	35.17	35.93	35.22	35.15	34.97	34.86	34.79
2	.71	.80	.69	.35	36.28	.15	.81	.21	.14	.96	.86	.79
3	.71	.79	.70	.45	.14	.13	.67	.21	.13	.96	.86	.79
4	.74	.78	.71	.50	35.74	.11	38.60	.21	.13	.96	.85	.79
5	.76	.77	.90	.28	.61	.60	.16	.21	.12	.96	.85	.79
6	34.76	34.76	35.01	35.15	35.51	38.25	36.58	35.23	35.12	34.96	34.85	34.78
7	.76	.75	.01	.06	.52	.85	.48	.22	.10	.95	.85	.78
8	.76	.75	.13	.00	.60	36.75	.40	.18	.35	.95	.84	.78
9	.81	.74	.13	34.97	.48	.40	35.84	.20	.20	.95	.84	.78
10	.82	.73	.36	35.21	.77	.68	.69	36.03	.14	.94	.84	.78
11	34.83	34.74	35.60	36.48	35.59	36.20	35.62	35.46	35.11	34.94	34.83	34.77
12	.83	.73	36.05	.14	.50	35.81	.55	.32	.09	.93	.83	.78
13	.83	.72	35.47	.07	.72	.66	.48	.26	.10	.93	.83	.78
14	.90	.71	.25	.31	36.77	.57	.45	.27	.08	.92	.82	.77
15	.89	.70	.13	.35	38.01	.59	.46	.40	.06	.92	.82	.77
16	34.89	34.71	35.06	36.05	36.26	35.47	36.76	36.19	35.06	34.92	34.82	34.77
17	.92	.71	34.98	.05	35.94	.42	35.93	35.62	.06	.92	.82	.77
18	.88	.71	.95	.08	.66	38.62	.90	.44	.05	.92	.82	.77
19	.85	.71	.93	.16	.54	.75	.80	.36	.04	.92	.81	.77
20	.83	.84	.95	35.77	.56	36.81	.58	.38	.04	.92	.82	.77
21	34.82	34.82	35.03	35.90	35.60	36.25	35.54	35.41	35.04	34.91	34.85	34.76
22	.79	.79	34.96	.69	.50	35.89	.53	.41	.03	.91	.83	.77
23	.77	.76	.95	36.11	.41	36.28	.44	.32	.03	.90	.81	.80
24	.83	.76	.94	.25	.35	.44	.40	.27	.02	.90	.81	.78
25	.89	.73	.93	35.99	.31	.04	.38	.25	.01	.89	.80	.80
26	34.88	34.70	34.98	35.72	35.29	35.95	35.40	35.23	35.00	34.88	34.79	34.79
27	.91	.69	.94	.73	.26	.86	.35	.21	.00	.88	.79	.78
28	.86	.69	.98	.87	.22	36.29	.31	.19	34.99	.88	.78	.79
29	.84	.68	35.50	36.07	.20	.35	.28	.17	.99	.88	–	.80
30	.84	.67	.15	.34	.18	35.88	.26	.16	.98	.87	–	.78
31	–	.66	–	37.55	.16	–	.23	–	.98	.87	–	.77
Mean	34.82	34.74	35.07	35.84	35.77	36.27	35.86	35.51	35.07	34.92	34.83	34.78
Max.	34.92	34.84	36.05	37.55	38.19	38.85	38.60	36.19	35.35	34.97	34.86	34.80
Min.	34.71	34.66	34.66	34.97	35.16	35.11	35.23	35.16	34.98	34.87	34.78	34.76

WATER YEAR 1972 : Max. 38.85 m. Min. 34.66 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.06	0.00	0.72	110	1.35	15	1.64	1.25	0.50	0.18	0.00
2		0.00	–	2.80	27	1.25	12	1.57	1.20	0.47	0.18	
3				4.35	22	1.15	8.68	1.57	1.15	0.47	0.18	
4			0.00	5.20	10	1.05	133	1.57	1.15	0.47	0.15	
5			0.30	2.06	7.24	7.00	105	1.57	1.10	0.47	0.15	
6			0.64	1.25	5.38	114	38	1.71	1.10	0.47	0.15	
7			0.64	0.84	5.56	149	34	1.64	1.00	0.45	0.15	
8	0.00		1.15	0.60	7.00	44	31	1.40	2.80	0.45	0.12	
9	0.030		1.15	0.50	4.86	31	13	1.50	1.50	0.45	0.12	
10	0.060		2.92	1.57	11	42	9.16	18	1.20	0.42	0.12	
11	0.090		7.00	34	6.82	24	7.48	4.52	1.05	0.42	0.090	
12	0.090		19	22	5.20	12	6.10	2.44	0.96	0.39	0.090	
13	0.090		4.69	20	9.88	8.44	4.86	1.92	1.00	0.39	0.090	
14	0.30		1.85	28	45	6.46	4.35	1.99	0.92	0.36	0.060	
15	0.27		1.15	29	101	6.82	4.52	3.50	0.84	0.36	0.060	
16	0.27		0.84	19	26	4.69	45	23	0.84	0.36	0.060	
17	0.36		0.53	19	16	3.84	15	7.48	0.84	0.36	0.060	
18	0.24		0.45	34	8.44	135	14	4.18	0.80	0.36	0.060	
19	0.15	0.00	0.39	22	5.92	143	12	2.92	0.76	0.36	0.030	
20	0.090	0.12	0.45	11	6.28	47	6.64	3.16	0.76	0.36	0.060	
21	0.060	0.060	0.72	14	7.00	26	5.92	3.67	0.76	0.33	0.15	
22	0.000	0.00	0.47	9.16	5.20	14	5.74	3.67	0.72	0.33	0.090	
23	0.000		0.45	21	3.67	27	4.18	2.44	0.72	0.30	0.030	
24	0.090		0.42	26	2.80	32	3.50	1.99	0.68	0.30	0.030	
25	0.27		0.39	17	2.32	19	3.16	1.85	0.64	0.27	0.00	
26	0.24		0.53	9.88	2.13	16	3.50	1.71	0.60	0.24	0.00	
27	0.33		0.42	10	1.92	13	2.80	1.57	0.60	0.24	0.00	
28	0.18		0.53	14	1.64	27	2.32	1.45	0.56	0.24	0.00	
29	0.12		5.20	20	1.50	29	2.06	1.35	0.56	0.24	–	
30	0.12		1.25	29	1.40	14	1.92	1.30	0.53	0.21	–	
31	–	0.00	–	78	1.30	–	1.71	–	0.53	0.21	–	0.00
Total	3.450	0.24	52.53	505.93	471.46	1,000.05	559.60	108.28	29.12	11.25	2.46	0.00
Mean	0.115	0.008	1.78	16.3	15.21	33.3	18.0	3.61	0.94	0.36	0.087	0.00
Max.	0.36	0.12	19	78	110	149	133	23	2.80	0.50	0.18	0.00
Min.	0.00	0.00	0.00	0.50	1.30	1.05	1.71	1.30	0.53	0.21	0.00	0.00
Runoff - mcm.	0.298	0.021	4.625	43.712	40.734	86.404	48.349	9.355	2.516	0.972	0.212	0.000

WATER YEAR 1972 : Max. 149 Min. 0.00 Mean 7.52 Annual Runoff 237.200 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7, 72	24.00	40.79	290				

PRACHIN RIVER BASIN

Huai Samong at Ban Kaeng Din So, Prachin Buri (Kgt. 15A)

Location: Lat. 14°-03'-46" N., Long. 101°-55'-39" E., on right bank at Ban Kaeng Din So 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: Fairly stable with variable water surface slope, no shifting adjustment for flow computation.

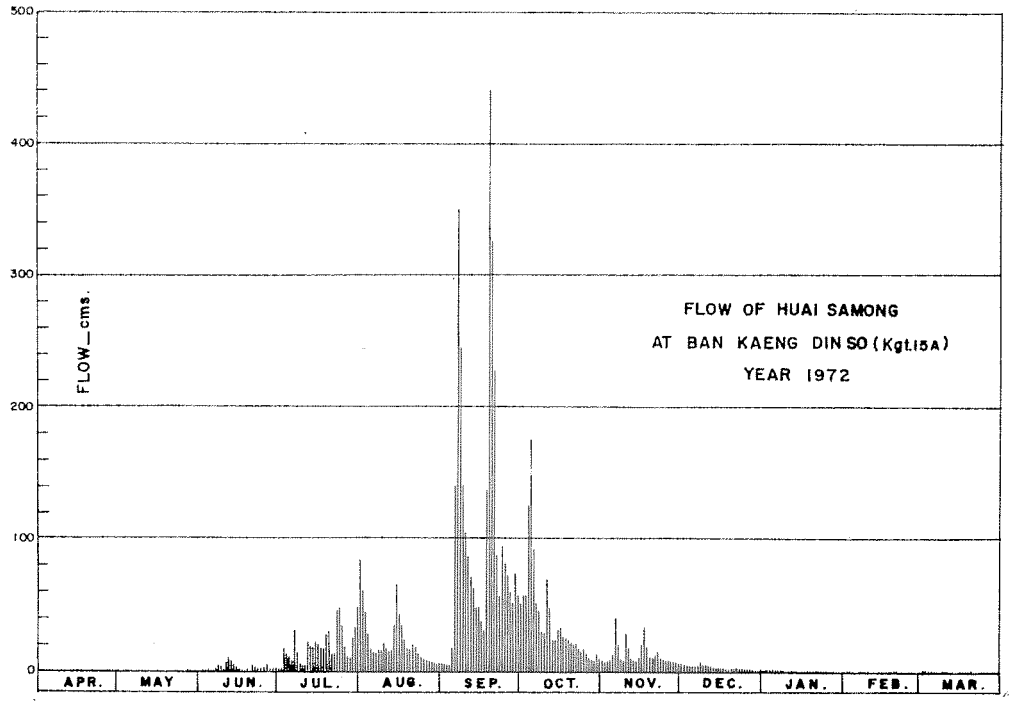
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 104 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.52	0.57	0.45	0.98	3.67	1.86	2.87	1.39	1.24	0.88	0.69	0.60
2	.52	.55	.59	1.08	.16	.23	3.05	.35	.21	.87	.69	.60
3	.51	.54	.87	.87	2.63	.19	.04	.40	.19	.86	.67	.60
4	.51	.53	.89	.63	.05	.17	4.79	.50	.17	.86	.67	.60
5	.51	.51	.74	.54	1.77	.99	5.37	.69	.16	.84	.67	.61
6	0.52	0.51	0.75	1.40	1.67	4.57	3.32	2.62	1.15	0.83	0.66	0.61
7	.57	.51	1.07	2.30	.68	7.92	2.92	1.67	.14	.82	.66	.60
8	.60	.49	.17	1.62	.80	6.81	.78	.48	.37	.81	.66	.60
9	.61	.49	0.96	.26	.80	4.32	.26	.44	.22	.81	.65	.59
10	.67	.49	.89	.13	2.01	.07	.26	2.22	.15	.81	.64	.59
11	0.67	0.48	1.43	1.26	1.79	3.66	3.34	1.73	1.13	0.81	0.64	0.58
12	.68	.47	.53	2.08	.71	.38	2.81	.50	.11	.80	.64	.57
13	.65	.47	.24	1.87	.82	.21	.08	.44	.09	.80	.64	.57
14	.68	.46	.10	.88	2.90	2.79	.05	.44	.07	.79	.64	.57
15	.79	.46	0.97	2.02	3.25	.85	.33	.58	.05	.79	.64	.56
16	0.80	0.46	0.90	1.93	2.70	2.59	2.40	2.07	1.03	0.78	0.64	0.56
17	.75	.48	.85	.86	.37	.17	.15	.37	.02	.77	.64	.56
18	.69	.51	.80	.88	.03	4.95	.10	1.75	.01	.77	.64	.56
19	.65	.54	.77	2.24	1.86	8.96	.09	.56	.00	.77	.63	.56
20	.63	.54	.78	.30	.81	7.29	.00	.61	0.99	.77	.63	.56
21	0.61	0.54	1.14	1.68	1.96	5.19	1.91	1.69	0.98	0.77	0.63	0.55
22	.58	.54	.02	.61	.85	3.32	2.00	.75	.98	.78	.62	.55
23	.57	.54	0.91	2.78	.60	2.95	1.75	.52	.97	.76	.62	.60
24	.57	.52	.88	.86	.53	3.89	.71	.47	.96	.74	.62	.61
25	.59	.51	.87	.39	.49	.67	.81	.43	.94	.73	.61	.60
26	0.58	0.50	1.18	1.89	1.42	3.46	1.63	1.39	0.93	0.72	0.61	0.60
27	.68	.49	.08	.61	.37	.17	.54	.39	.93	.72	.61	.58
28	.65	.48	0.98	.60	.34	2.84	.48	.35	.91	.71	.60	.58
29	.60	.46	1.08	2.13	.31	3.45	.45	.31	.90	.71	-	.58
30	.58	.46	.09	.48	.31	.06	.68	.26	.90	.70	-	.57
31	-	.45	-	3.21	.31	-	.49	-	.89	.69	-	.57
Mean	0.62	0.50	0.97	1.88	1.97	3.71	2.40	1.61	1.06	0.78	0.64	0.58
Max.	0.80	0.57	1.53	3.21	3.67	8.96	5.37	2.62	1.37	0.88	0.69	0.61
Min.	0.51	0.45	0.45	0.98	1.31	1.17	1.45	1.26	0.89	0.69	0.60	0.55

WATER YEAR 1972 : Max. 8.96 m. Min. 0.45 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.02	0.07	0.00	2.46	85	6.40	51	8.35	6.10	1.38	0.37	0.10
2	0.02	0.05	0.09	3.74	62	5.95	58	7.75	5.65	1.32	0.37	0.10
3	0.01	0.04	1.32	19	41	5.35	58	8.50	5.35	1.26	0.31	0.10
4	0.01	0.03	1.44	13	23	5.05	144	10	5.05	1.26	0.31	0.10
5	0.01	0.01	0.60	11	16	22	176	14	4.90	1.14	0.31	0.13
6	0.02	0.01	0.65	8.50	14	132	69	41	4.75	1.08	0.28	0.13
7	0.07	0.01	3.61	31	14	350	53	14	4.60	1.02	0.28	0.10
8	0.10	0.00	5.05	12	17	268	47	9.70	8.05	0.96	0.28	0.10
9	0.13	0.00	2.22	6.40	17	118	30	9.10	5.80	0.96	0.25	0.09
10	0.31	0.00	1.44	4.45	22	105	30	29	4.75	0.96	0.22	0.09
11	0.31	0.00	8.95	6.40	17	85	70	15	4.45	0.96	0.22	0.08
12	0.34	0.00	11	24	15	72	48	10	4.15	0.90	0.22	0.07
13	0.25	0.00	6.10	19	17	64	24	9.10	3.87	0.90	0.22	0.07
14	0.34	0.00	4.00	19	52	48	23	9.10	3.61	0.85	0.22	0.07
15	0.85	0.00	2.34	23	66	50	32	12	3.35	0.85	0.22	0.06
16	0.90	0.00	1.50	20	44	40	34	24	3.09	0.80	0.22	0.06
17	0.65	0.00	1.20	18	33	27	26	33	2.96	0.75	0.22	0.06
18	0.37	0.01	1.90	19	23	153	25	16	2.83	0.75	0.22	0.06
19	0.25	0.04	0.75	29	18	440	25	11	2.70	0.75	0.19	0.06
20	0.19	0.04	0.80	31	17	301	22	12	2.58	0.75	0.19	0.06
21	0.13	0.04	4.60	14	21	166	20	14	2.46	0.75	0.19	0.05
22	0.08	0.04	2.96	12	18	69	22	16	2.46	0.80	0.16	0.05
23	0.07	0.04	1.62	47	12	54	16	10	2.34	0.70	0.16	0.10
24	0.07	0.02	1.38	50	11	96	15	9.55	2.22	0.60	0.16	0.13
25	0.09	0.01	1.32	34	9.85	85	17	8.95	1.98	0.55	0.13	0.10
26	0.08	0.00	5.20	19	8.80	76	13	8.35	1.86	0.50	0.13	0.10
27	0.34	0.00	3.74	12	8.05	63	11	8.35	1.86	0.50	0.13	0.08
28	0.25	0.00	2.46	12	7.60	50	9.70	7.75	1.62	0.45	0.10	0.08
29	0.10	0.00	3.74	26	7.15	75	9.25	7.15	1.50	0.45	–	0.08
30	0.08	0.00	3.87	36	7.15	58	14	6.40	1.50	0.40	–	0.07
31	–	0.00	–	64	7.15	–	9.85	–	1.44	0.37	–	0.07
Total	6.44	0.46	84.85	645.95	730.75	3,089.75	1,201.80	399.10	109.83	25.67	6.28	2.60
Mean	0.21	0.015	2.83	20.8	23.6	103	32.3	13.3	3.54	0.83	0.22	0.083
Max.	0.90	0.07	11	64	85	440	176	41	8.05	1.38	0.37	0.13
Min.	0.01	0.00	0.00	2.46	7.15	5.05	9.25	6.40	1.44	0.37	0.10	0.05
Runoff – MCM.	0.556	0.040	7.331	55.810	63.137	266.955	103.835	34.482	9.489	2.218	0.543	0.225

WATER YEAR 1972 : Max. 440 Min. 0.00 Mean 17.3 Annual Runoff 544.621 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 19, 73	6.00	9.27	470				

PRACHIN RIVER BASIN

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 Suwanson 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, 18.00 on April - May, October - March and 03.00, 06.00, 09.00, 12.00, 15.00, 18.00, 21.00 hours on June - September.

Basis of Mean Daily Gage Height: Arithmetic mean of 5-7 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.

Overbank Flow Conditions: Overbank flow starts at elevation + 3.90 m. (A.D.) and is included.

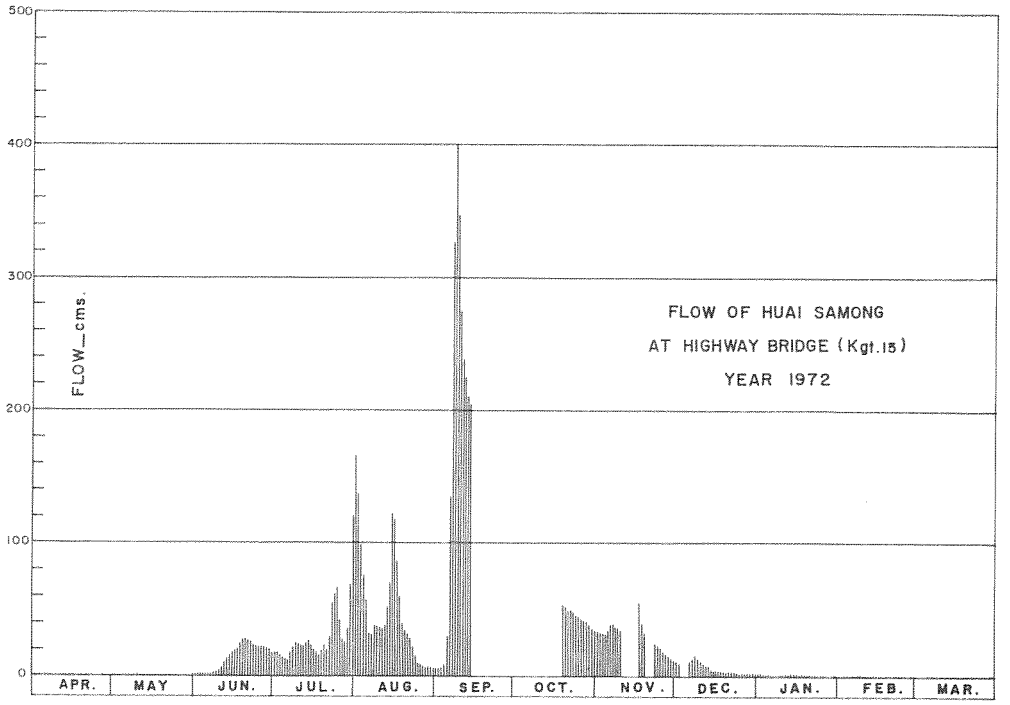
General Description: Records fair. Stage-discharge relation defined by 15 discharge measurements made in 1967.

Remarks: Staff gage was damaged on periods September 15 - October 18. Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.27	0.19	0.22	1.30	4.01	0.85		1.75	1.04	0.60	0.37	0.30
2	.26	.19	.33	.29	3.65	.85		.74	.00	.59	.36	.30
3	.25	.18	.43	.24	2.98	.85		.72		.58	.36	.29
4	.25	.18	.45	.16	.68	.97		.71		.57	.36	.29
5	.26	.17	.47	.10	.26	1.64		.79		.56	.35	.29
6	0.26	0.17	0.48	1.18	1.71	3.32		1.88	1.05	0.55	0.35	0.29
7	.27	.17	.53	.32	.71	5.73		.89	.17	.54	.35	.29
8	.27	.16	.63	.43	.88	6.58		.84	.28	.53	.34	.28
9	.28	.15	.69	.52	.83	5.99		.80	.14	.52	.34	.28
10	.29	.15	.74	.50	.83	.18		.79	.04	.51	.34	.28
11	0.30	0.14	0.87	1.47	1.77	4.93			1.00	0.50	0.34	0.28
12	.30	.14	1.13	.47	.87	.71			0.97	.49	.33	.28
13	.29	.14	.19	.51	2.20	.55			.88	.48	.33	.27
14	.29	.14	.25	.58	.67	.48			.82	.47	.33	.27
15	.29	.14	.32	.51	3.38				.78	.46	.33	.27
16	0.28	0.13	1.37	1.39	3.32				0.76	0.45	0.33	0.27
17	.28	.13	.44	.28	2.67			2.23	.75	.44	.32	.27
18	.27	.13	.52	.23	.19			1.88	.73	.43	.32	.26
19	.27	.13	.60	.38	1.85		2.20	.71	.72	.41	.32	.26
20	.26	.12	.60	.49	.76		.18		.71	.41	.32	.26
21	0.26	0.12	1.57	1.34	1.69		2.14		0.68	0.40	0.31	0.27
22	.26	.12	.51	.61	.58		.12		.67	.40	.31	.27
23	.25	.12	.45	2.24	.35		.08	1.51	.66	.40	.31	.28
24	.25	.11	.44	.39	.10		.04	.44	.65	.39	.31	.28
25	.24	.11	.43	.48	.00		.00	.36	.64	.39	.31	.28
26	0.24	0.11	1.42	2.11	0.95		1.97	1.30	0.63	0.39	0.30	0.27
27	.23	.11	.40	1.62	.93		.95	.24	.62	.38	.30	.27
28	.23	.10	.40	.52	.91		.93	.20	.61	.38	.30	.27
29	.20	.10	.37	.91	.90		.86	.15	.60	.38	-	.27
30	.20	.10	.32	2.58	.88		.78	.10	.60	.37	-	.27
31	-	.10	-	3.47	.86		.76	-	.60	.37	-	.27
Mean	0.26	0.14	1.08	1.63	1.95					0.46	0.33	0.28
Max.	0.30	0.19	1.60	3.47	4.01	6.58				0.60	0.37	0.30
Min.	0.20	0.10	0.22	1.10	0.86	0.85				0.37	0.30	0.26

WATER YEAR 1972 : Max. 6.58 m. Min. 0.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	18	167	6.20		34	11	2.20	0.21	0.00
2			0.09	17	141	6.20		33	9.60	2.08	0.18	0.00
3			0.51	16	96	6.20		33		1.96	0.18	
4			0.65	14	78	8.88		32		1.84	0.18	
5			0.79	12	56	29		35		1.72	0.15	
6			0.86	14	32	118		39	11	1.60	0.15	
7			1.36	18	32	317		39	14	1.48	0.15	
8			2.62	22	39	400		37	17	1.36	0.12	
9			3.46	25	37	342		36	13	1.24	0.12	
10			4.24	24	37	265		34	11	1.12	0.12	
11			6.60	23	35	243			9.60	1.00	0.12	
12			13	23	39	224			8.88	0.93	0.09	
13			14	25	53	210			6.80	0.86	0.09	
14			16	27	78	204			5.60	0.79	0.09	
15			18	25	122				4.88	0.72	0.09	
16			20	21	118				4.56	0.65	0.09	
17			22	17	78			55	4.40	0.58	0.06	
18			25	16	53			39	4.08	0.51	0.06	
19			28	20	38		53	32	3.92	0.37	0.06	
20			28	24	34		52		3.76	0.37	0.06	
21			27	19	31		50		3.32	0.30	0.03	
22			25	28	27		50		3.18	0.30	0.03	
23			23	55	19		48	25	3.04	0.30	0.03	
24			22	63	12		46	22	2.90	0.27	0.03	
25			22	67	9.60		44	20	2.76	0.27	0.03	
26			22	49	8.40		43	18	2.62	0.27	0.00	
27			21	29	7.92		42	16	2.48	0.24	0.00	
28			21	25	7.44		41	15	2.34	0.24	0.00	
29			20	40	7.20		38	13	2.20	0.24	–	
30	0.00		18	73	6.80		35	12	2.20	0.21	–	
31	–	0.00	–	129	6.40		34	–	2.20	0.21	–	0.00
Total	0.00	0.00	426.18	978	1,505.76					26.23	2.52	0.00
Mean	0.00	0.00	14.2	31.5	48.6					0.85	0.09	0.00
Max.	0.00	0.00	28	129	167	400				2.20	0.21	0.00
Min.	0.00	0.00	0.00	12	6.40	6.20				0.21	0.00	0.00
Runoff – mcm.	0.000	0.000	36.822	84.499	130.098					2.266	0.218	0.000

WATER YEAR 1972 : Max. 400 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8, 72	06.00	6.62	404				

PRACHIN RIVER BASIN

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 Gloy, King Amphoe Sanam Chai, Chachoengsao.

Drainage Area: 951 Sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: at the cocoanut tree infront of Kgt. 18 station office.
Elevation: + 6.887 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1967-1971, 1972 to date.

Rating Operation:

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

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

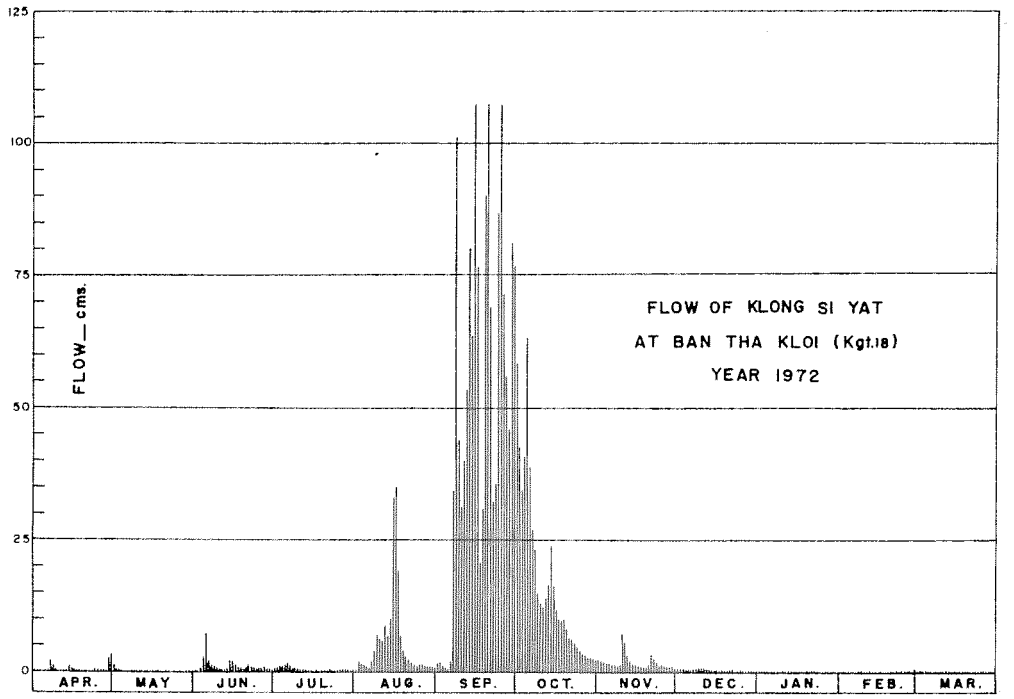
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 114 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.67	1.03	0.60	0.96	0.76	1.24	4.15	1.38	0.86	0.68	0.62	0.62
2	.67	0.88	.88	1.04	1.33	.28	3.65	.31	.85	.68	.62	.60
3	.68	.77	1.06	.14	.24	.07	.44	.24	.84	.68	.61	.59
4	.66	.72	.72	.16	.12	0.97	.78	.20	.83	.67	.61	.59
5	.64	.69	2.01	.20	.04	.94	4.44	.16	.83	.67	.61	.58
6	0.64	0.68	1.35	1.24	1.00	1.49	3.41	1.13	0.82	0.68	0.61	0.58
7	1.34	.67	.14	.10	.46	4.25	.12	.10	.83	.68	.62	.58
8	.04	.66	.07	0.98	.75	5.39	2.93	.07	.86	.67	.62	.59
9	0.83	.65	0.92	.90	2.02	3.51	.55	.04	.92	.67	.62	.59
10	.78	.64	.86	.85	1.94	.30	.39	2.01	.90	.67	.62	.58
11	0.74	0.63	0.81	0.81	1.92	3.72	2.36	1.77	0.86	0.67	0.62	0.58
12	.72	.62	.83	.79	2.12	4.22	.48	.45	.83	.67	.63	.57
13	.73	.61	.91	.76	1.95	.90	.65	.26	.80	.68	.63	.57
14	1.15	.61	1.36	.75	2.30	.44	3.00	.15	.79	.67	.61	.57
15	.03	.61	.35	.75	3.37	5.53	2.62	.09	.76	.67	.61	.57
16	0.84	0.61	1.16	0.73	3.46	4.78	2.37	1.06	0.77	0.67	0.61	0.57
17	.76	.62	.01	.72	2.20	2.89	.19	.03	.76	.67	.61	.57
18	.73	.63	0.95	.73	1.85	3.33	.17	.00	.76	.67	.61	.57
19	.70	.62	.90	.73	.66	5.16	.21	.00	.74	.67	.61	.57
20	.68	.61	1.16	.73	.50	.52	.05	.11	.74	.66	.61	.57
21	0.66	0.61	1.18	0.73	1.35	4.11	1.91	1.62	0.73	0.65	0.62	0.57
22	.64	.60	.03	.81	.22	3.35	.92	.41	.72	.66	.62	.57
23	.64	.60	0.91	.74	.13	.51	.83	.22	.72	.65	.63	.57
24	.91	.59	.87	.73	.06	5.34	.75	.10	.71	.64	.62	.57
25	.83	.59	.91	.73	.21	.53	.66	.05	.71	.64	.61	.58
26	0.83	0.59	0.95	0.74	1.20	4.29	1.59	1.01	0.70	0.65	0.63	0.58
27	.76	.59	1.05	.75	.05	.21	.53	0.99	.70	.65	.63	.58
28	.79	.58	0.96	.74	.01	3.77	.49	.96	.70	.64	.63	.57
29	1.45	.57	.93	.73	0.97	4.92	.46	.92	.70	.63	-	.56
30	.51	.57	.91	.74	.97	.78	.40	.89	.69	.63	-	.56
31	-	.57	-	.74	.97	-	.38	-	.69	.63	-	.56
Mean	0.83	0.64	1.05	0.84	1.87	3.82	2.48	1.20	0.77	0.66	0.61	0.57
Max.	1.51	1.03	2.01	1.24	3.46	5.53	4.44	2.01	0.92	0.68	0.63	0.62
Min.	0.64	0.57	0.60	0.72	0.76	0.94	1.38	0.89	0.69	0.63	0.61	0.56

WATER YEAR 1972 : Max. 5.53 m. Min. 0.56 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.13	0.97	0.040	0.78	0.29	1.66	53	2.22	0.52	0.14	0.066	0.066
2	0.13	0.57	0.057	1.00	2.02	1.82	40	1.94	0.49	0.14	0.066	0.040
3	0.14	0.31	1.060	1.31	1.66	1.09	34	1.66	0.47	0.14	0.053	0.032
4	0.11	0.21	4.20	1.37	1.24	0.80	43	1.50	0.44	0.13	0.053	0.032
5	0.092	0.16	7.34	1.50	1.00	0.72	63	1.37	0.44	0.13	0.053	0.024
6	0.092	0.14	2.10	1.66	0.88	2.71	34	1.28	0.42	0.14	0.053	0.024
7	2.06	0.13	1.31	1.18	2.58	57	27	1.18	0.44	0.14	0.066	0.024
8	1.00	0.12	1.09	0.83	4.50	101	23	1.09	0.52	0.13	0.066	0.032
9	0.44	0.10	0.67	0.62	7.48	36	15	1.00	0.67	0.13	0.066	0.032
10	0.33	0.092	0.52	0.49	6.48	31	13	7.34	0.62	0.13	0.066	0.024
11	0.25	0.079	0.39	0.39	6.24	42	12	4.70	0.52	0.13	0.066	0.024
12	0.21	0.066	0.44	0.35	8.88	56	14	2.53	0.44	0.13	0.079	0.016
13	0.23	0.053	0.65	0.29	6.60	80	17	1.74	0.37	0.14	0.079	0.016
14	1.34	0.053	2.14	0.27	11	63	24	1.34	0.37	0.13	0.053	0.016
15	0.97	0.053	2.10	0.27	33	107	17	1.15	0.29	0.13	0.053	0.016
16	0.47	0.053	1.37	0.23	35	76	12	1.06	0.31	0.13	0.053	0.016
17	0.29	0.066	0.91	0.21	10	20	9.86	0.97	0.29	0.13	0.053	0.016
18	0.23	0.079	0.75	0.23	5.50	32	9.58	0.88	0.29	0.13	0.053	0.016
19	0.17	0.066	0.62	0.23	3.70	91	10	0.88	0.25	0.13	0.053	0.016
20	0.14	0.053	1.37	0.23	2.76	107	7.90	1.21	0.25	0.12	0.053	0.016
21	0.12	0.053	1.44	0.23	2.10	52	6.12	3.39	0.23	0.10	0.066	0.016
22	0.092	0.040	0.97	0.39	1.58	32	6.24	2.35	0.21	0.12	0.066	0.016
23	0.092	0.040	0.95	0.25	1.28	36	5.30	1.58	0.21	0.10	0.079	0.016
24	0.65	0.032	0.54	0.23	1.06	99	4.50	1.18	0.19	0.092	0.066	0.016
25	0.44	0.032	0.65	0.23	1.54	107	3.70	1.03	0.19	0.092	0.053	0.024
26	0.44	0.032	0.75	0.25	1.50	58	3.19	0.91	0.17	0.10	0.079	0.024
27	0.29	0.032	1.03	0.27	1.03	55	2.90	0.85	0.17	0.10	0.079	0.024
28	0.35	0.024	0.78	0.25	0.91	43	2.71	0.77	0.17	0.092	0.079	0.016
29	2.53	0.016	0.70	0.23	0.80	81	2.58	0.67	0.17	0.079	–	0.008
30	2.81	0.016	0.65	0.25	0.80	76	2.30	0.59	0.16	0.079	–	0.008
31	–	0.016	–	0.25	0.80	–	2.22	–	0.16	0.079		0.008
Total	17.718	3.756	37.587	16.27	164.21	1,546.80	520.10	50.05	10.42	3.683	1.770	0.674
Mean	0.59	0.12	1.25	0.52	5.29	51.60	16.7	1.66	0.33	0.11	0.063	0.021
Max.	2.81	0.97	7.34	1.66	35	107	63	7.34	0.67	0.14	0.079	0.066
Min.	0.092	0.016	0.040	0.21	0.29	0.72	2.22	0.59	0.16	0.079	0.053	0.008
Runoff – mcm.	1.531	0.324	3.247	1.406	14.188	133.643	44.937	4.324	0.900	0.318	0.153	0.058

WATER YEAR 1972 : Max. 107 Min. 0.008 Mean 6.50 Annual Runoff 205.029 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 25, 72	07.00	6.00	129				

PRACHIN RIVER BASIN

Khlong Luang at Ban Mai, Chon Buri (Kgt.19)

Location: Lat. 13°-23'-17" N., Long. 101°-20'-40" E., on left bank about 4 kilometers east of Khok Pho market and 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: Stable, no shifting adjustment for flow computation.

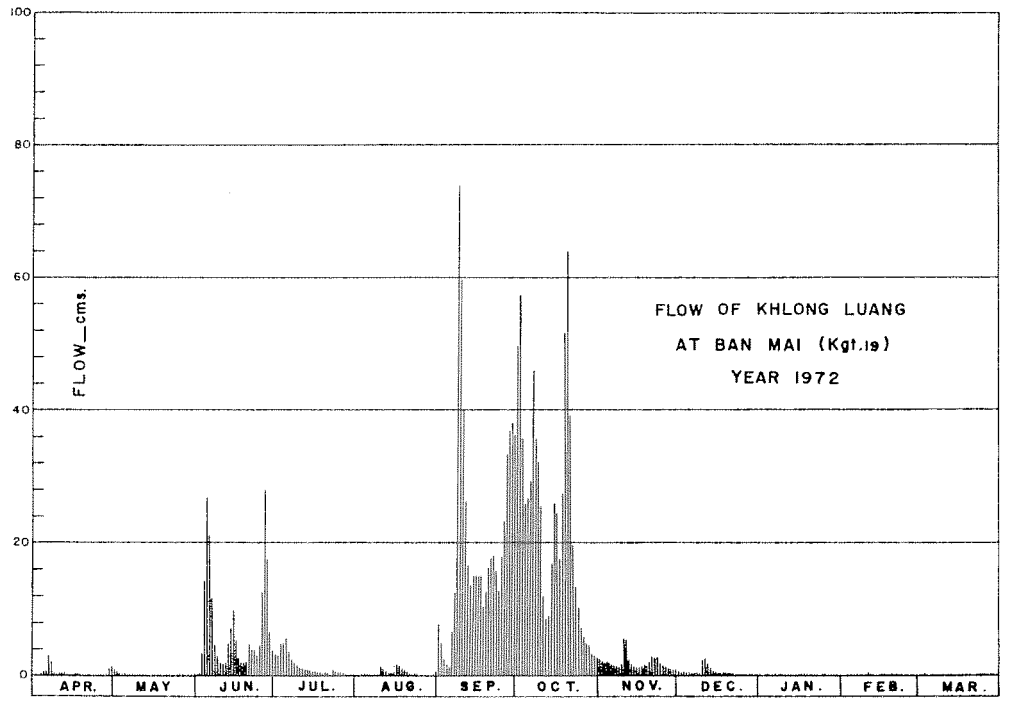
Overbank Flow Conditions: Overbank flow starts at elevation + 25.45 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 145 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.49	21.07	20.46	21.77	20.63	22.81	25.43	21.58	20.98	20.63	20.49	20.42
2	.45	20.86	.62	.84	.64	.15	.46	.49	.95	.63	.48	.41
3	.52	.78	22.11	22.19	.62	21.67	.22	.46	.94	.63	.48	.42
4	.95	.75	24.64	.19	.62	.35	24.94	.47	.93	.56	.48	.43
5	21.03	.67	.98	.42	.60	.20	.99	.37	.90	.61	.52	.36
6	21.72	20.63	24.65	21.90	20.59	22.45	25.11	21.33	20.87	20.61	20.51	20.37
7	.15	.57	22.84	.64	.59	23.80	.40	.32	.86	.57	.51	.38
8	20.78	.51	21.96	.48	.64	25.26	.25	.28	.89	.58	.50	.41
9	.67	.56	.65	.35	.67	.54	.18	.25	21.01	.57	.51	.42
10	.67	.50	.46	.24	21.33	.40	24.73	22.37	.62	.56	.49	.53
11	20.65	20.47	21.37	21.17	21.08	25.04	23.67	22.28	21.62	20.55	20.48	20.56
12	.63	.44	.49	.11	20.88	24.52	22.98	21.54	.32	.55	.57	.53
13	.60	.43	.93	.06	.80	23.75	23.11	.33	.12	.53	.54	.52
14	.58	.46	22.77	.05	.89	24.04	24.46	.23	.03	.55	.48	.50
15	.59	.43	23.34	.01	21.01	.03	.93	.20	20.94	.57	.48	.51
16	20.76	20.44	22.15	21.00	21.37	24.09	24.84	21.21	20.92	20.51	20.47	20.50
17	.71	.47	21.66	20.99	.33	.11	.35	.27	.88	.57	.46	.67
18	.71	.46	.45	.93	.13	23.28	25.02	.42	.87	.52	.44	.59
19	.60	.45	.45	.88	20.97	.69	.44	.35	.82	.54	.45	.54
20	.57	.45	.53	.85	.88	24.39	.50	.60	.78	.54	.48	.53
21	20.55	20.44	22.21	20.82	20.80	24.56	25.03	21.72	20.75	20.53	20.44	20.58
22	.55	.46	21.82	.91	.75	.56	24.53	.56	.73	.61	.48	.67
23	.58	.45	.82	21.11	.67	.08	23.76	.70	.73	.61	.46	.66
24	.60	.43	.70	20.99	.64	23.54	.22	.40	.73	.69	.45	.63
25	.59	.43	22.21	.90	.57	24.49	22.70	.26	.72	.79	.44	.62
26	20.60	20.43	24.13	20.85	20.62	24.90	22.40	21.22	20.69	20.65	20.44	20.62
27	.62	.43	25.05	.80	.61	25.19	.18	.16	.70	.61	.42	.59
28	.77	.43	24.38	.76	.62	.31	21.99	.11	.70	.59	.44	.55
29	21.20	.42	22.54	.72	.67	.33	.87	.07	.69	.56	-	.56
30	.30	.42	21.97	.68	.74	.29	.76	.01	.69	.55	-	.51
31	-	.43	-	.66	21.04	-	.67	-	.67	.54	-	.50
Mean	20.74	20.52	22.41	21.20	20.81	23.99	24.10	21.43	20.90	20.58	20.48	20.51
Max.	21.72	21.07	25.05	22.42	21.37	25.54	25.50	22.37	21.62	20.79	20.57	20.67
Min.	20.45	20.42	20.46	20.66	20.59	21.20	21.67	21.01	20.67	20.51	20.42	20.36

WATER YEAR 1972: Max. 25.54 m. Min. 20.36 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.074	0.84	0.056	3.18	0.18	7.65	*51	2.42	0.66	0.18	0.074	0.032
2	0.050	0.44	0.18	3.46	0.19	4.70	*57	2.07	0.60	0.18	0.068	0.026
3	0.096	0.33	4.54	4.86	0.18	2.78	*34	1.98	0.58	0.18	0.068	0.032
4	0.60	0.29	* 19	4.86	0.18	1.65	*26	2.01	0.56	0.13	0.068	0.038
5	0.76	0.22	* 27	5.78	0.16	1.20	*27	1.71	0.50	0.17	0.096	0.012
6	2.98	0.18	* 20	3.70	0.15	5.90	*30	1.59	0.45	0.17	0.088	0.014
7	1.05	0.14	7.80	2.66	0.15	13	*46	1.56	0.44	0.14	0.088	0.016
8	0.33	0.088	3.94	2.04	0.19	*35	*35	1.44	0.48	0.14	0.080	0.026
9	0.22	0.13	2.70	1.65	0.22	*74	*32	1.35	0.72	0.14	0.088	0.032
10	0.22	0.080	1.98	1.32	1.59	*46	*21	5.58	2.58	0.13	0.074	0.10
11	0.20	0.062	1.71	1.11	0.86	*28	12	5.22	2.58	0.12	0.068	0.13
12	0.18	0.044	2.07	0.93	0.47	18	8.50	2.26	1.56	0.12	0.14	0.10
13	0.16	0.038	3.82	0.82	0.35	13	9.16	1.59	0.96	0.10	0.11	0.096
14	0.14	0.056	7.45	0.80	0.48	15	18	1.29	0.76	0.12	0.068	0.080
15	0.15	0.038	10	0.72	0.72	15	*26	1.20	0.58	0.14	0.068	0.088
16	0.31	0.044	4.70	0.70	1.71	15	*24	1.23	0.54	0.088	0.062	0.080
17	0.25	0.062	2.74	0.68	1.59	15	17	1.41	0.47	0.14	0.056	0.22
18	0.25	0.056	1.95	0.56	0.99	10	*28	1.86	0.45	0.096	0.044	0.15
19	0.16	0.050	1.95	0.47	0.64	13	*53	1.65	0.38	0.11	0.050	0.11
20	0.14	0.050	2.22	0.42	0.47	17	*64	2.50	0.33	0.11	0.068	0.10
21	0.12	0.044	4.94	0.38	0.35	18	28	2.98	0.29	0.10	0.044	0.14
22	0.12	0.056	3.38	0.52	0.29	18	18	2.34	0.27	0.17	0.068	0.22
23	0.14	0.050	3.38	0.93	0.22	15	13	2.90	0.27	0.17	0.056	0.21
24	0.16	0.038	2.90	0.68	0.19	12	9.82	1.80	0.27	0.23	0.050	0.18
25	0.15	0.038	4.94	0.50	0.14	18	7.10	1.38	0.26	0.34	0.044	0.18
26	0.16	0.038	15	0.42	0.18	*25	5.70	1.26	0.23	0.20	0.044	0.18
27	0.18	0.038	*28	0.35	0.17	*33	4.82	1.08	0.24	0.17	0.032	0.15
28	0.32	0.038	17	0.31	0.18	*37	4.06	0.93	0.24	0.15	0.044	0.12
29	1.20	0.032	6.30	0.26	0.22	*38	3.58	0.84	0.23	0.13	–	0.13
30	1.50	0.032	3.98	0.22	0.28	*36	3.14	0.72	0.23	0.12	–	0.088
31	–	0.038	–	0.21	0.78	–	2.78	–	0.22	0.11	–	0.080
Total	12.37	3.680	215.626	45.50	14.47	600.88	718.66	58.15	18.93	4.594	1.908	3.160
Mean	0.41	0.12	7.19	1.47	0.47	20.0	23.2	1.94	0.61	0.15	0.068	0.10
Max.	2.98	0.84	28	5.78	1.71	74	64	5.58	2.58	0.34	0.14	0.22
Min.	0.050	0.032	0.056	0.21	0.15	1.20	2.78	0.72	0.22	0.088	0.032	0.012
Runoff – MCM.	1.069	0.318	18.630	3.931	1.250	51.916	62.092	5.024	1.635	0.397	0.165	0.273

WATER YEAR 1972 : Max. 74 Min. 0.012 Mean 4.65 Annual Runoff 146.701 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.8	18.00	25.63	102				

PRACHIN RIVER BASIN

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. - M.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.

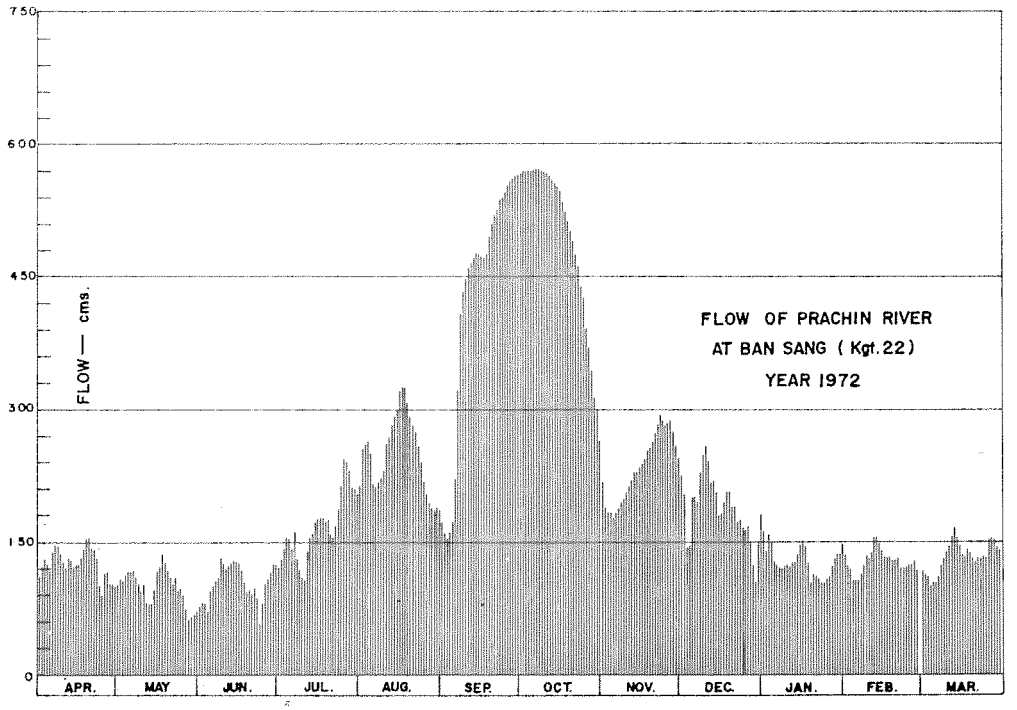
General Description: Records fair. Stage-discharge relation defined by 14 discharge measurements made in 1967.

Remarks: Gage height is influence by tidal effect the presented flow data may not represent the true mean daily value.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.04	-0.04	-0.27	0.12	0.82	0.51	2.70	0.78	0.85	0.42	0.24	0.11
2	.14	0.02	-0.21	.23	1.06	.45	.71	.63	.73	.28	.16	.08
3	.20	-0.01	-0.20	.31	.10	.37	.71	.58	.31	.40	.07	.05
4	.15	0.06	-0.33	.38	.11	.46	.71	.59	.32	.35	.02	-0.03
5	.07	.09	-0.09	.36	.02	.51	.71	.54	.71	.19	.02	0.00
6	0.27	0.08	-0.04	0.27	0.82	0.90	2.71	0.58	0.71	0.45	0.01	0.00
7	.31	.08	-0.01	.42	.77	1.60	.72	.62	.67	.13	.08	.07
8	.30	.05	0.04	.20	.81	.92	.71	.67	.89	.13	.18	.15
9	.26	-0.02	.21	.11	.85	2.04	.71	.69	1.02	.14	.23	.24
10	.15	-0.09	.14	.02	.90	.10	.70	.74	.08	.16	.21	.28
11	0.12	-0.03	0.11	0.02	1.10	2.18	2.70	0.79	0.95	0.13	0.28	0.33
12	.20	-0.23	.16	.27	.13	.21	.67	.84	.79	.17	.39	.41
13	.19	-0.24	.16	.37	.23	.24	.66	.89	.82	.19	.39	.47
14	.12	-0.23	.19	.41	.27	.27	.64	.87	.76	.28	.32	.36
15	.15	-0.08	.17	.51	.32	.26	.61	.92	.56	.33	.26	.33
16	0.16	0.10	0.16	0.52	1.44	2.25	2.59	0.95	0.58	0.36	0.21	0.23
17	.20	.15	.08	.54	.48	.24	.52	1.00	.68	.30	.21	.20
18	.30	.24	-0.06	.54	.47	.28	.47	.04	.74	.15	.22	.29
19	.37	.15	-0.11	.50	.36	.36	.45	.07	.75	.00	.17	.26
20	.38	.08	-0.08	.52	.29	.42	.39	.12	.62	.08	.19	.15
21	0.28	0.00	-0.12	0.39	1.22	2.48	2.33	1.17	0.63	0.04	0.20	0.19
22	.28	-0.03	-0.06	.37	.17	.51	.25	.23	.51	.03	.13	.22
23	.20	0.03	-0.15	.51	.09	.57	.16	.29	.52	.00	.11	.21
24	-0.04	-0.09	-0.44	.60	0.96	.58	.04	.23	.45	-0.01	.11	.23
25	-0.15	-0.07	-0.18	.83	.83	.61	1.91	.22	.45	0.03	.16	.20
26	0.07	-0.15	-0.02	0.98	0.74	2.64	1.82	1.25	0.47	0.06	0.16	0.37
27	.09	-0.31	0.02	.96	.65	.66	.69	.26	.29	.12	.18	.38
28	-0.05	-0.38	.08	.87	.63	.68	.53	.17	.11	.20	.08	.37
29	-0.02	-0.36	.15	.76	.61	.69	.37	.05	-0.01	.25	-	.30
30	-0.05	-0.33	.15	.76	.63	.70	.32	0.97	0.35	.25	-	.27
31	-	-0.29	-	.71	.60	-	.02	-	.57	.33	-	.26
Mean	0.16	-0.060	-0.018	0.46	1.01	1.99	2.33	0.92	0.63	0.18	0.18	0.22
Max.	0.38	0.24	0.21	0.98	1.48	2.70	2.72	1.29	1.08	0.42	0.39	0.47
Min.	-0.15	-0.38	-0.44	0.02	0.60	0.37	1.02	0.54	-0.01	-0.01	0.01	-0.03

WATER YEAR 1972 : Max. 2.72 m. Min. -0.44 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	110	100	74	120	219	173	566	213	223	161	136	119
2	123	107	81	134	256	165	569	190	205	141	125	115
3	131	104	82	145	262	154	569	183	145	158	114	111
4	124	112	68	155	264	166	569	184	147	151	107	101
5	114	116	94	152	249	173	569	177	202	129	107	105
6	140	115	100	140	219	231	569	183	202	124	106	105
7	145	115	104	161	211	348	571	189	196	121	115	114
8	144	111	110	131	217	408	569	196	229	121	128	124
9	138	102	132	119	223	431	569	199	249	123	134	136
10	124	94	123	107	231	443	566	207	259	125	132	141
11	120	101	119	107	262	459	566	214	238	121	141	148
12	131	79	125	140	267	465	560	222	214	127	156	159
13	129	78	125	154	283	471	558	229	219	129	156	168
14	120	79	129	159	290	477	553	226	210	141	147	152
15	124	96	127	173	298	475	547	234	180	148	138	148
16	125	118	125	175	319	473	542	238	183	152	132	134
17	131	124	115	177	326	471	527	246	198	144	132	131
18	144	136	98	177	324	479	517	253	207	124	133	142
19	154	124	92	172	305	495	513	257	208	105	127	138
20	155	115	96	175	293	507	501	265	189	115	129	124
21	141	105	91	156	282	519	489	273	190	110	131	129
22	141	101	98	154	273	525	473	283	173	109	121	133
23	131	109	88	173	261	538	455	293	175	105	119	132
24	100	94	56	186	240	540	431	283	165	104	119	134
25	88	97	84	220	220	547	406	282	165	109	125	131
26	114	88	102	243	207	553	389	286	168	112	125	154
27	116	70	107	240	193	558	365	288	142	120	128	155
28	99	63	115	226	190	562	335	273	119	131	115	154
29	102	65	124	210	187	564	307	254	104	137	–	144
30	99	68	124	210	190	566	298	241	151	137	–	140
31	–	72	–	202	186	–	249	–	182	148	–	138
Total	37.57	3,058	3,108	5,193	7,747	12,936	15,267	7,061	5,837	3,982	3,578	4,159
Mean	125	98.6	104	167	250	431	492	235	188	128	128	134
Max.	155	136	132	243	326	566	571	293	259	161	156	168
Min.	88	63	56	107	186	154	249	177	104	104	106	101
Runoff – MCM.	324.605	264.211	268.531	448.675	669.34	1,117.670	1,319.069	610.070	504.317	344.045	309.139	359.338

WATER YEAR 1972 : Max. 571 Min. 56 Mean 207 Annual Runoff 6,539.011 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.7	06.00	2.73	573				

PRACHIN RIVER BASIN

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, Prachin Buri.

Drainage Area: 121 Sq.km.

Type of Gage: Water-stage recorder.

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

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

Location: near station office Kgt. 24
Elevation: + 8.365 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: 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: Overbank flow starts at elevation + 7.80 m. (A.D.) and is included.

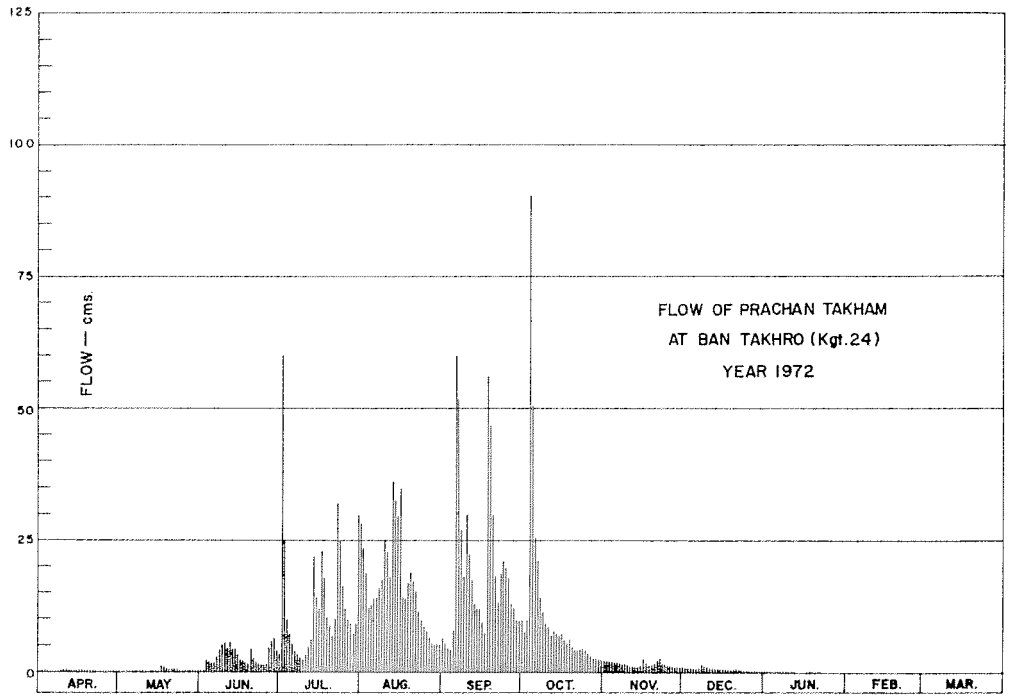
General Description: Records fair. Stage-discharge relation defined by 173 discharge measurements made in 1972. Flow regulated by Prachantakham Dam.

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).

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.34	0.40	0.43	1.20	3.40	1.61	1.90	1.02	0.72	0.47	0.37	0.29
2	.36	.41	.44	4.63	2.74	.48	.68	1.00	.70	.47	.37	.29
3	.37	.40	1.04	2.37	.52	.38	.89	1.02	.68	.46	.36	.29
4	.38	.39	0.99	1.86	.07	.33	5.78	0.99	.67	.45	.36	.30
5	.37	.40	.89	.58	.17	.76	3.35	.94	.67	.45	.36	.29
6	0.36	0.41	0.94	1.40	2.24	4.13	2.87	0.92	0.66	0.44	0.36	0.29
7	.35	.41	1.22	.27	.25	.58	.73	.89	.66	.44	.36	.29
8	.35	.41	.40	.19	.36	3.10	.25	.86	.89	.43	.36	.29
9	.37	.40	.45	.11	.55	2.54	1.99	.88	.78	.42	.35	.29
10	.48	.40	.52	.06	3.03	3.18	.86	.85	.71	.41	.35	.29
11	0.53	0.40	1.34	1.19	2.56	2.84	1.77	0.82	0.68	0.40	0.34	0.33
12	.51	.40	.52	.39	.64	.39	.65	.79	.65	.40	.33	.31
13	.50	.41	.34	.57	3.22	.13	.73	.77	.64	.40	.32	.30
14	.49	.44	.35	2.46	.49	.12	.69	.75	.62	.39	.31	.32
15	.47	.43	.18	.37	.43	.08	.66	.81	.60	.39	.29	.32
16	0.45	0.49	1.05	2.04	3.53	1.81	1.69	1.07	0.59	0.39	0.29	0.31
17	.43	.76	0.97	2.69	2.26	.69	.55	0.93	.58	.39	.29	.30
18	.41	.66	.92	2.56	.21	4.45	.50	.84	.56	.40	.29	.29
19	.40	.60	.89	1.94	.47	.57	.58	.82	.56	.40	.29	.28
20	.39	.57	1.36	1.77	.63	2.99	.43	.93	.56	.40	.29	.29
21	0.39	0.57	1.05	1.65	2.47	2.46	1.36	1.02	0.55	0.39	0.29	0.30
22	.39	.58	0.94	1.91	.34	.13	.40	.09	.55	.39	.30	.30
23	.39	.55	.91	3.07	1.94	.62	.33	0.92	.54	.39	.30	.29
24	.38	.52	.85	.17	.95	.74	.35	.89	.53	.39	.30	.30
25	.39	.50	.81	2.41	.74	.57	.34	.85	.52	.39	.30	.29
26	0.39	0.49	0.82	2.08	1.73	2.55	1.25	0.84	0.52	0.39	0.29	0.31
27	.39	.47	1.38	1.94	.59	.17	.19	.81	.51	.39	.29	.31
28	.40	.46	.49	.86	.50	.07	.14	.78	.49	.38	.29	.31
29	.39	.44	.59	.70	.45	1.89	.10	.76	.48	.38	-	.31
30	.39	.43	.23	.84	.51	.91	.10	.74	.48	.38	-	.31
31	-	-	-	2.84	.48	-	.07	-	.48	.37	-	.30
Mean	0.40	0.47	1.11	2.00	2.37	2.51	1.81	0.88	0.59	0.39	0.31	0.29
Max.	0.53	0.76	1.59	4.63	3.53	4.57	5.78	1.09	0.89	0.47	0.37	0.33
Min.	0.34	0.39	0.43	1.06	1.45	1.33	1.07	0.74	0.48	0.37	0.29	0.28

WATER YEAR 1972 : Max. 5.78 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.08	0.20	0.26	3.30	28 *	6.50	9.80	2.30	1.06	0.34	0.14	0.00
2	0.12	0.22	0.28	60	23 *	5.26	7.20	2.20	1.00	0.34	0.14	
3	0.14	0.20	2.40	16	17 *	4.56	9.68	2.30	0.94	0.32	0.12	
4	0.16	0.18	2.15	9.32	12	4.21	90 *	2.15	0.91	0.30	0.12	
5	0.14	0.20	1.66	6.20	13	8.12	29 *	1.90	0.91	0.30	0.12	
6	0.12	0.22	1.90	4.70	14	60 *	23	1.80	0.88	0.28	0.12	
7	0.10	0.22	3.44	3.79	14	47 *	21	1.66	0.88	0.28	0.12	
8	0.10	0.22	4.70	3.24	16	27	14	1.54	1.66	0.26	0.12	
9	0.14	0.20	5.05	2.76	18	18	17	1.62	1.24	0.24	0.10	
10	0.36	0.20	5.60	2.50	25 *	30 *	9.32	1.50	1.03	0.22	0.10	0.00
11	0.49	0.20	4.28	3.24	21 *	21 *	8.24	1.38	0.94	0.20	0.08	0.06
12	0.43	0.20	5.60	4.63	18 *	16	6.90	1.27	0.85	0.20	0.06	0.02
13	0.40	0.22	4.28	6.10	36 *	13	7.76	1.21	0.82	0.20	0.04	0.00
14	0.38	0.28	4.35	22 *	31 *	12	7.30	1.15	0.76	0.18	0.02	0.04
15	0.34	0.26	3.18	13 *	29 *	12	7.00	1.34	0.70	0.18	0.00	0.04
16	0.30	0.38	2.45	12 *	35	8.72	7.30	2.55	0.67	0.18		0.02
17	0.26	1.18	2.05	23 *	14	7.30	5.90	1.85	0.64	0.18		0.00
18	0.22	0.88	1.80	18	14	56	5.40	1.46	0.58	0.20		0.00
19	0.20	0.70	1.66	10	17	46	6.20	1.38	0.58	0.20		0.00
20	0.18	0.61	4.42	8.24	19	25	4.91	1.85	0.58	0.20		0.00
21	0.18	0.61	2.45	6.90	17	17	4.42	2.30	0.55	0.18		0.00
22	0.18	0.64	1.90	9.92	15	13	4.10	2.65	0.55	0.18		0.00
23	0.18	0.55	1.75	32 *	10	19	4.21	1.80	0.52	0.18		0.00
24	0.16	0.46	1.50	23 *	10	21	4.35	1.66	0.49	0.18		0.00
25	0.18	0.40	1.34	16	7.88	19	4.21	1.50	0.46	0.18		0.00
26	0.18	0.38	1.38	12	7.76	18	3.65	1.46	0.46	0.18		0.02
27	0.18	0.34	4.56	10	6.30	13	3.24	1.34	0.43	0.18		0.02
28	0.20	0.32	5.33	9.32	5.40	12	2.94	1.24	0.38	0.16	0.00	0.02
29	0.18	0.28	6.30	7.40	5.05	9.68	2.70	1.18	0.36	0.16	–	0.02
30	0.18	0.28	3.51	9.08	5.50	9.92	2.70	1.12	0.36	0.16	–	0.02
31	–	0.26	–	30 *	5.26	–	2.55	–	0.36	0.14	–	0.00
Total	6.46	11.49	91.53	397.64	508.15	579.27	330.58	50.66	22.55	6.68	1.40	0.28
Mean	0.21	0.37	3.05	12.8	16.4	19.3	10.7	1.68	0.72	0.21	0.05	0.009
Max.	0.49	1.18	6.30	60	36	60	90	2.65	1.66	0.34	0.14	0.06
Min.	0.08	0.18	0.26	2.50	5.05	4.21	2.55	1.12	0.36	0.14	0.00	0.00
Runoff - MCM.	0.558	0.992	7.908	34.356	43.904	50.049	28.562	4.377	1.948	0.577	0.120	0.024

WATER YEAR 1972 : Max. 90 Min. 0.00 Mean 5.51 Annual Runoff 173.378 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Qct.4,	4.00	8.27	402				

RAYONG RIVER BASIN

Khlong Mae Nam Khu at Ban Mae Nam Khu, Rayong (Z3)

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 staff gage.

Location Elevation: at the rain tree near staff gage. –

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April – August, November – March. 13-time daily readings at 06.00 – 18.00 hours on September – October.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 and 13 readings.

Period of Available Gage Records: 1967-1972

Rating Operation:

Period of Rating: 1967-1972
Rated by Float: –
Rated by Current Meter: 1967-1972

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

Overbank Flow Conditions: Overhead flow starts at elevation + 27.95 m. (M.S.L.) and is included.

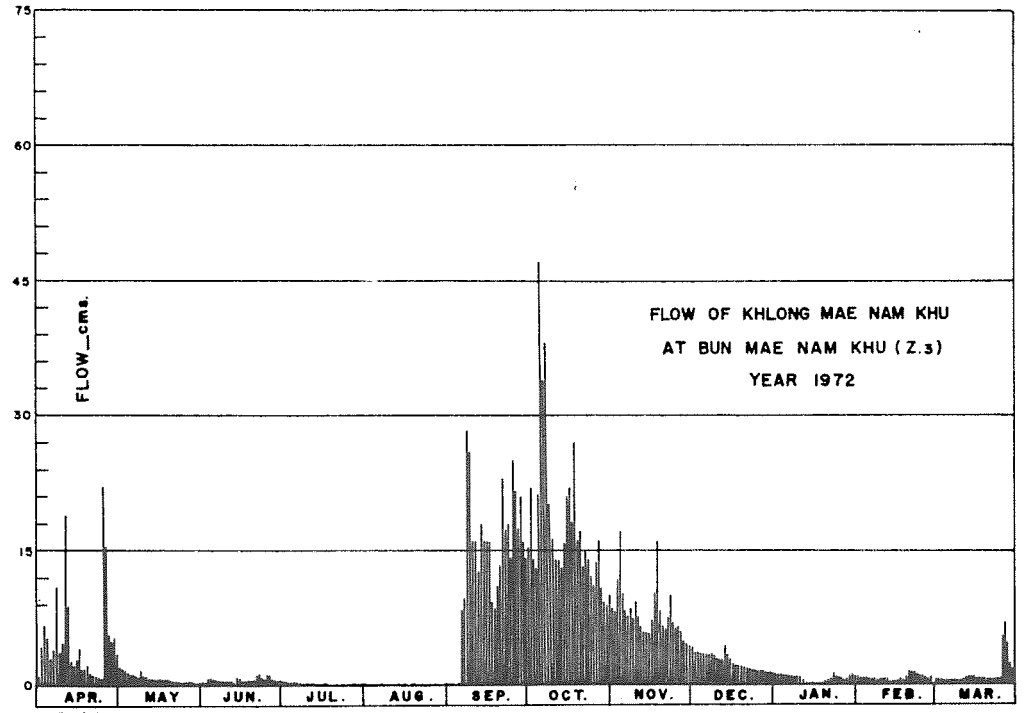
General Description: Records good. Stage-discharge relation defined by 94 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.08	26.33	25.87	25.87	25.74	25.68	27.96	27.32	26.74	26.17	26.07	25.96
2	27.05	.31	.87	.86	.74	.68	28.21	.33	.70	.15	.03	.94
3	.11	.22	26.02	.85	.81	.67	27.76	.70	.66	.14	.01	.92
4	26.96	.17	.03	.85	.77	.67	.78	28.03	.65	.12	25.99	.90
5	.62	.13	25.95	.87	.75	.68	28.70	27.49	.64	.12	.97	.89
6	26.54	26.11	25.92	25.85	25.75	27.34	28.50	27.30	26.64	26.10	25.96	25.89
7	27.58	.08	.90	.83	.73	.48	.58	.24	.64	.09	.98	.88
8	26.78	.05	.88	.82	.73	28.39	.26	.35	.65	.08	26.00	.93
9	.65	.24	.88	.81	.72	.32	.06	.21	.61	.08	25.99	.90
10	.97	.07	.89	.80	.72	27.94	27.96	.44	.56	.06	.97	.92
11	28.12	26.05	25.88	25.79	25.72	27.95	27.86	27.22	26.54	26.04	25.96	25.98
12	26.97	.02	.88	.78	.72	.65	.81	.05	.50	25.82	.97	26.09
13	.50	.01	26.51	.78	.72	28.04	.77	.00	.77	.80	.85	.10
14	.39	.02	.13	.78	.71	27.93	.99	.01	.69	.80	.94	.08
15	.57	25.99	25.98	.78	.71	.94	28.17	.02	.49	.80	.94	.05
16	26.73	25.96	25.93	25.77	25.71	27.93	28.23	27.22	26.44	25.79	25.97	25.99
17	.30	.95	.89	.77	.71	.48	.05	.67	.41	.79	.97	.99
18	.33	.94	.87	.76	.71	.32	.36	.97	.38	.79	.99	.98
19	.38	.94	.92	.76	.71	.62	27.98	.21	.36	.88	26.15	.96
20	.20	.93	.90	.76	.70	.77	.99	.13	.34	.92	.23	.95
21	26.14	25.92	26.09	25.76	25.69	28.24	27.79	27.06	26.32	25.95	26.23	25.92
22	.10	.90	.21	.75	.70	.02	.92	.25	.31	.96	.19	.91
23	.08	.88	.01	.75	.70	.06	.82	.51	.29	26.13	.15	.90
24	.08	.87	.01	.74	.69	27.82	.67	.12	.28	.07	.11	.94
25	28.22	.86	.15	.74	.68	28.32	.60	.07	.25	.03	.07	26.02
26	27.83	25.85	26.11	25.74	25.67	28.21	27.85	27.10	26.24	26.01	26.03	26.97
27	26.98	.84	25.97	.73	.67	.03	.93	.02	.23	.01	.00	27.12
28	.85	.83	.93	.73	.67	.17	.52	26.88	.22	.08	25.99	26.59
29	.91	.82	.89	.72	.73	27.96	.43	.82	.21	.16	–	.32
30	.53	.82	.89	.72	.68	.83	.39	.77	.20	.15	–	.25
31	–	.82	–	.72	.67	–	.51	–	.18	.12	–	.21
Mean	26.75	26.00	25.98	25.78	25.71	27.54	27.95	27.25	26.46	26.01	26.02	26.08
Max.	28.22	26.33	26.51	25.87	25.81	28.39	28.70	28.03	26.77	26.17	26.23	27.12
Min.	26.08	25.82	25.87	25.72	25.67	25.67	27.39	26.77	26.18	25.79	25.85	25.88

WATER YEAR 1972 : Max. 28.70 m. Min. 25.67 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr..	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.03	1.97	0.42	0.42	0.16	0.09	16	8.26	4.14	1.34	0.99	0.65
2	6.22	1.89	0.42	0.40	0.16	0.09	22	8.34	3.90	1.27	0.85	0.60
3	6.67	1.53	0.82	0.37	0.27	0.08	* 13	12	3.66	1.24	0.78	0.55
4	5.57	1.34	0.85	0.37	0.20	0.08	13	17	3.60	1.17	0.72	0.50
5	3.42	1.20	0.62	0.42	0.17	0.09	* 47	9.80	3.54	1.17	0.67	0.47
6	2.97	1.13	0.55	0.37	0.17	8.42	* 33	8.10	3.54	1.10	0.65	0.47
7	11	1.03	0.50	0.32	0.14	* 9.70	* 38	7.65	3.54	1.06	0.70	0.45
8	4.38	0.92	0.45	0.30	0.14	28	* 23	8.50	3.60	1.03	0.75	0.57
9	3.60	1.61	0.45	0.27	0.13	25	* 18	7.42	3.36	1.03	0.72	0.50
10	5.64	0.99	0.47	0.25	0.13	16	* 16	9.30	3.08	0.96	0.67	0.55
11	19	0.92	0.45	0.23	0.13	16	* 14	7.50	2.97	0.89	0.65	0.70
12	5.64	0.82	0.45	0.22	0.13	12	* 14	6.22	2.75	0.30	0.67	1.06
13	2.75	0.78	2.80	0.22	0.13	18	13	5.85	4.32	0.25	0.37	1.10
14	2.21	0.82	1.20	0.22	0.11	16	17	5.92	3.84	0.25	0.60	1.03
15	3.13	0.72	0.70	0.22	0.11	16	21	6.00	2.70	0.25	0.60	0.92
16	4.08	0.65	0.57	0.20	0.11	16	22	7.50	2.45	0.23	0.67	0.72
17	1.85	0.62	0.47	0.20	0.11	9.70	18	12	2.30	0.23	0.67	0.72
18	1.97	0.60	0.42	0.19	0.11	8.26	27	16	2.17	0.23	0.72	0.70
19	2.17	0.60	0.55	0.19	0.11	11	16	7.42	2.09	0.45	1.27	0.65
20	1.45	0.57	0.50	0.19	0.10	13	17	6.82	2.01	0.55	1.57	0.62
21	1.24	0.55	1.06	0.19	0.09	23	13	6.30	1.93	0.62	1.57	0.55
22	1.10	0.50	1.49	0.17	0.10	17	15	7.72	1.89	0.65	1.41	0.52
23	1.03	0.45	0.78	0.17	0.10	18	14	10	1.81	1.20	1.27	0.50
24	1.03	0.42	0.78	0.16	0.09	14	12	6.75	1.77	0.99	1.13	0.60
25	22	0.40	1.27	0.16	0.09	25	11	6.37	1.65	0.85	0.99	0.82
26	14	0.37	1.13	0.16	0.08	22	14	6.60	1.61	0.78	0.85	5.64
27	5.71	0.35	0.67	0.14	0.08	17	16	6.00	1.57	0.78	0.75	6.75
28	4.82	0.32	0.57	0.14	0.08	21	10	5.02	1.53	1.03	0.72	3.24
29	5.22	0.30	0.47	0.13	0.14	16	9.20	4.63	1.49	1.31	–	1.93
30	2.91	0.30	0.47	0.13	0.09	14	8.82	4.32	1.45	1.27	–	1.65
31	–	0.30	–	0.13	0.08	–	10	–	1.38	1.17	–	1.49
Total	153.81	24.97	22.35	7.25	3.84	410.51	551.02	241.31	81.64	25.65	23.98	37.22
Mean	5.13	0.80	0.74	0.23	0.12	13.7	17.8	8.04	2.63	0.83	0.86	1.20
Max.	22	1.97	2.80	0.42	0.27	28	47	17	4.32	1.34	1.57	6.75
Min.	1.03	0.30	0.42	0.13	0.08	0.08	8.82	4.32	1.38	0.23	0.37	0.45
Runoff – mcm.	13.289	2.157	1.931	0.626	0.332	35.468	47.608	20.849	7.054	2.216	2.072	3.216

WATER YEAR 1972 : Max. 47 Min. 0.08 Mean 4.34 Annual Runoff 136.819 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5,	13.00	28.92	76.20				

RAYONG RIVER BASIN

Khlong Nong Pla Lai at Ban Nong Mapring, Rayong (Z4)

Location: Lat. 12°-54'-40" N., Long. 101°-17'-37" E., on left bank at Ban Nong Mapring, Amphoe Ban Khai, Rayong.

Drainage Area: 429 Sq.km.

Type of Gage: Staff gage

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

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

Location: near the gage site.
Elevation: + 5.270 m. (A.D.)

Gage Reading Frequency: 5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours on April - August, November - March and 13-time daily readings at 06.00-18.00 hours on September - October.

Basis of Mean Daily Gage Height: Arithmetic mean of 5-13 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.

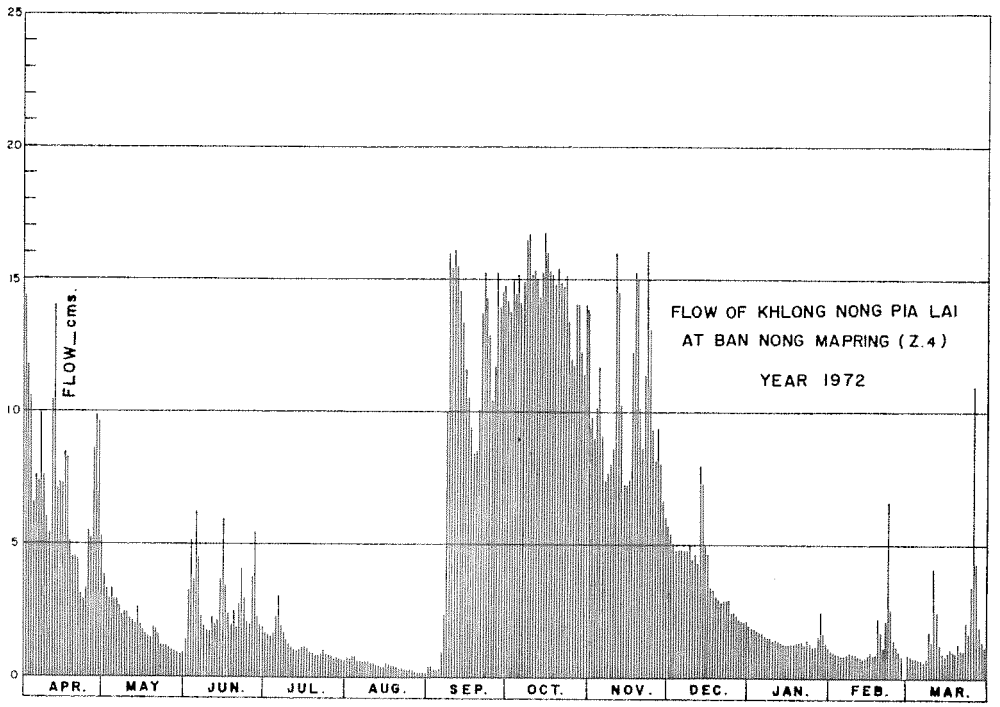
Overbank Flow Conditions: Overbank flow exists but hardly to be determined, records are channel flow only.

General Description: Records good. Stage-discharge relation defined by 100 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.68	1.08	0.56	0.58	0.31	0.18	2.66	2.60	1.41	0.65	0.40	0.35
2	.23	0.98	1.10	.55	.30	.22	.59	.05	.32	.63	.38	.32
3	.17	.87	.30	.54	.32	.16	.76	1.95	.29	.62	.38	.31
4	1.55	.95	.00	.59	.32	.13	.69	2.34	.24	.59	.37	.29
5	.73	.86	.48	.75	.27	.13	.78	.18	.25	.58	.35	.29
6	1.64	0.88	0.99	0.89	0.25	0.34	2.64	1.96	1.25	0.58	0.34	0.27
7	2.12	.80	.68	.68	.24	.94	.76	.70	.24	.55	.36	.25
8	1.64	.73	.63	.58	.25	2.29	.94	.75	.26	.53	.39	.32
9	.42	.76	.59	.52	.26	.88	.97	.83	.28	.53	.37	.61
10	.22	.77	.59	.48	.24	.81	.78	.81	.18	.51	.36	.48
11	2.17	0.71	0.72	0.45	.22	2.89	2.80	2.89	1.22	0.52	0.34	1.11
12	.58	.68	.65	.41	.22	.78	.76	.68	.14	.51	.32	0.81
13	1.65	.66	.63	.40	.20	.69	.67	1.95	.80	.50	.31	.46
14	.69	.81	1.03	.41	.20	.62	.83	.67	.66	.48	.31	.37
15	.66	.63	.45	.42	.18	.40	.98	.67	.25	.47	.32	.33
16	1.87	0.59	0.80	0.44	0.22	2.21	2.85	2.03	1.21	0.47	0.41	0.38
17	.83	.57	.74	.42	.22	.08	.79	.43	0.99	.48	.35	.42
18	.30	.54	.61	.38	.19	1.86	.78	.79	.96	.47	.37	.39
19	.19	.53	.76	.37	.19	.87	.73	.76	.90	.48	.71	.37
20	.19	.64	.63	.34	.17	2.03	.81	.12	.88	.49	.58	.47
21	1.17	0.61	0.87	0.34	0.16	2.60	2.74	1.88	0.85	0.49	0.41	0.41
22	0.91	.53	1.11	.37	.16	.79	.72	2.34	.86	.47	.68	.40
23	.87	.45	0.97	.41	.14	.67	.78	.89	.82	.52	1.57	.68
24	.95	.45	.69	.36	.13	.54	.61	.45	.78	.46	0.69	.56
25	1.37	.43	.63	.33	.12	.12	.38	1.95	.76	.45	.50	.97
26	1.30	0.42	1.03	0.34	0.13	2.28	2.33	1.82	0.77	0.43	0.43	2.23
27	2.04	.38	.36	.31	.12	.79	.64	2.01	.75	.54	38	0.98
28	.07	.38	0.74	.31	.10	.61	.64	1.77	.73	.78	.34	.60
29	.04	.36	.66	.30	.10	.70	.43	.57	.70	.57	-	.50
30	1.29	.35	.63	.28	.10	.73	.29	.48	.69	.48	-	.45
31	-	.38	-	.27	.08	-	.63	-	.69	.44	-	.43
Mean	1.65	0.64	0.87	0.46	0.20	2.11	2.70	2.13	1.08	0.52	0.45	0.54
Max.	2.68	1.08	1.48	0.89	0.32	2.89	2.98	2.89	1.80	0.78	1.57	2.23
Min.	0.87	0.35	0.56	0.27	0.08	0.13	2.29	1.48	0.69	0.43	0.31	0.25

WATER YEAR 1972 : Max. 2.98 m. Min. 0.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.39	3.95	1.64	1.72	0.78	0.40	14.23	13.75	5.75	2.00	1.05	0.90
2	10.96	3.46	4.05	1.60	0.75	0.51	13.67	9.70	5.26	1.92	0.99	0.81
3	10.54	2.96	5.15	1.56	0.81	0.35	15.63	9.02	5.09	1.88	0.99	0.78
4	6.55	3.32	3.55	1.76	0.81	0.27	14.47	11.75	4.82	1.76	0.96	0.72
5	7.63	2.92	6.14	2.42	0.66	0.27	15.19	10.61	4.87	1.72	0.90	0.72
6	7.09	3.02	3.50	3.05	0.60	0.87	14.07	9.09	4.87	1.72	0.87	0.66
7	10	2.65	2.12	2.12	0.57	3.28	15.03	7.45	4.82	1.60	0.93	0.60
8	7.09	2.33	1.92	1.72	0.60	11.38	16.47	7.75	4.93	1.52	1.02	0.81
9	5.81	2.47	1.76	1.48	0.63	15.99	16.71	8.24	5.04	1.52	0.96	1.84
10	4.71	2.51	1.76	1.33	0.57	15.43	15.19	8.11	4.49	1.44	0.93	1.33
11	11	2.24	2.29	1.22	0.51	16.07	15.35	16.07	4.71	1.48	0.87	4.10
12	14	2.12	2.00	1.08	0.51	15.19	15.03	14.39	4.27	1.44	0.81	2.69
13	7.15	2.04	1.92	1.05	0.45	14.47	14.31	9.02	8.05	1.40	0.78	1.26
14	7.39	2.69	3.70	1.08	0.45	13.91	15.59	7.27	7.21	1.33	0.78	0.96
15	7.21	1.92	5.97	1.12	0.40	12.28	16.79	7.27	4.87	1.29	0.81	0.84
16	8.50	1.76	2.65	1.19	0.51	10.82	15.75	9.56	4.65	1.29	1.08	0.99
17	8.24	1.68	2.38	1.12	0.51	9.91	15.27	12.42	3.50	1.33	0.90	1.12
18	5.15	1.56	1.84	0.99	0.42	8.44	15.19	15.27	3.37	1.29	0.96	1.02
19	4.54	1.52	2.47	0.96	0.42	8.50	14.75	15.03	3.10	1.33	2.24	0.96
20	4.54	1.96	1.92	0.87	0.37	9.56	15.43	10.19	3.01	1.36	1.72	1.26
21	4.43	1.84	2.96	0.87	0.35	13.75	14.87	8.57	2.87	1.36	1.08	1.08
22	3.14	1.52	4.10	0.96	0.35	15.27	14.71	11.75	2.92	1.29	2.12	1.05
23	2.96	1.22	3.46	1.08	0.30	14.31	15.19	16.07	2.94	1.48	6.67	2.12
24	3.32	1.22	2.16	0.93	0.27	13.27	13.83	12.57	2.56	1.26	2.16	1.64
25	5.53	1.15	1.92	0.84	0.25	10.19	12.05	9.02	2.47	1.22	1.40	3.41
26	5.15	1.12	3.70	0.87	0.27	11.31	11.67	8.18	2.51	1.15	1.15	11
27	9.63	0.99	5.48	0.78	0.25	15.27	14.07	9.42	2.42	1.56	0.99	3.46
28	9.84	0.99	2.38	0.78	0.20	13.83	14.07	7.87	2.33	2.56	0.87	1.80
29	9.63	0.93	2.04	0.75	0.20	14.55	12.42	6.67	2.20	1.68	–	1.40
30	5.09	0.90	1.92	0.69	0.20	14.79	11.38	6.14	2.16	1.33	–	1.22
31	–	0.99	–	0.66	0.16	–	13.99	–	2.16	1.19	–	1.15
Total	221.21	61.95	88.85	38.65	14.13	304.36	451.77	308.22	124.22	46.70	36.99	53.70
Mean	7.37	2.00	2.96	1.25	0.46	10.14	14.60	10.37	4.01	1.51	1.32	1.73
Max.	14.39	3.95	6.14	3.05	0.81	16.07	16.79	16.07	8.05	2.56	6.67	11
Min.	2.96	0.90	1.64	0.66	0.16	0.27	11.38	6.14	2.16	1.15	0.78	0.60
Runoff - MCM.	19.112	5.352	7.677	3.339	1.221	26.297	39.033	26.630	10.733	4.035	3.196	4.640

WATER YEAR 1972 : Max. 16.80 Min. 0.16 Mean 4.80 Annual Runoff 151.265 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 15, 72	06.00	3.01	17.03				

RAYONG RIVER BASIN

Khlong Prasae at Ban Yang Ngam, Rayong (Z5)

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.

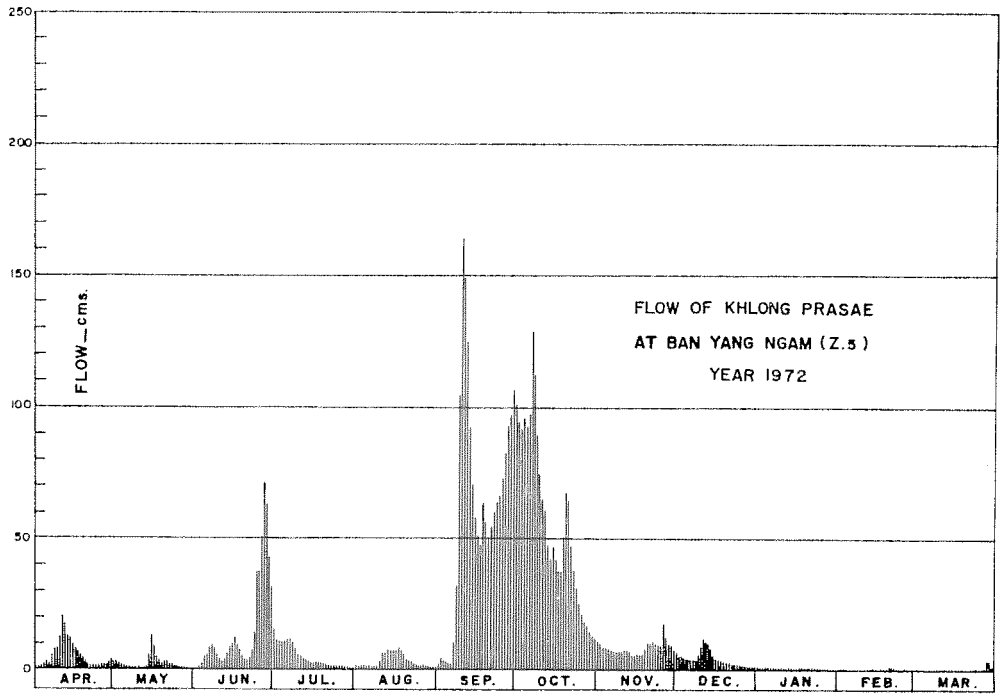
Overbank Flow Conditions: Overbank flow starts at elevation + 6.00 m. (A.D.) measured by current meter and is included.

General Description: Records good. Stage-discharge relation defined by 125 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.96	1.43	0.93	2.77	1.25	1.47	6.37	2.45	1.92	1.09	0.86	0.85
2	.99	.43	1.00	.55	.32	.81	.25	.36	.81	.08	.85	.83
3	1.03	.32	.33	.56	.33	.63	.20	.29	.74	.06	.85	.81
4	.32	.22	.81	.55	.34	.59	.29	.24	.69	.05	.84	.80
5	.43	.17	.94	.58	.28	.48	.22	.18	.65	.05	.84	.80
6	1.36	1.15	2.19	2.67	1.24	1.51	6.26	2.12	1.62	1.03	0.84	0.79
7	.97	.11	.41	.66	.24	2.81	.73	.06	.57	.02	.83	.78
8	2.19	.07	.19	.43	.22	4.99	.54	.03	.55	.01	.83	.79
9	.18	.06	1.77	.13	.33	6.97	.08	.03	.75	.00	.83	.78
10	.52	.04	.55	1.91	.64	7.05	5.69	.14	2.15	0.98	.83	.78
11	3.32	1.01	1.45	1.77	2.11	6.84	5.61	2.09	2.58	0.98	0.82	0.77
12	.10	.00	.70	.67	.11	.55	.35	.08	.51	.96	.81	.77
13	2.67	.12	2.08	.59	.16	.08	4.86	1.97	.41	.95	.81	.76
14	.65	2.06	.40	.54	.23	5.60	.69	.86	.06	.95	.81	.76
15	.39	.78	.48	.51	.17	.17	.91	.82	1.76	.94	.81	.83
16	2.15	2.20	2.63	1.54	2.18	5.11	4.69	1.92	1.61	0.93	0.80	0.81
17	.01	1.65	.41	.57	.24	.34	.40	.93	.52	.93	.80	.79
18	1.79	.48	.04	.51	.15	.54	.50	2.05	.46	.92	.81	.78
19	.57	.35	1.75	.43	1.92	.25	5.58	.26	.42	.92	.94	.84
20	.44	.47	.59	.37	.73	.05	.64	.44	.38	.92	1.18	.84
21	1.34	1.55	1.72	1.33	1.60	5.18	5.26	2.37	1.35	0.91	1.01	0.82
22	.27	.41	.91	.31	.50	.40	4.78	.47	.31	.91	0.94	.82
23	.23	.28	2.45	.27	.40	.47	.40	.40	.27	.91	.92	.81
24	.20	.18	4.49	.24	.35	.63	3.97	.30	.25	.91	.93	.81
25	.21	.11	.55	.23	.36	.63	.61	.34	.22	.91	.93	.82
26	1.30	1.06	5.22	1.22	1.33	5.85	3.35	3.09	1.19	0.89	0.89	0.84
27	.25	.02	.75	.18	.26	6.14	.13	2.69	.18	.89	.87	1.03
28	.25	0.99	.54	.14	.22	.28	2.92	.34	.17	.88	.85	.52
29	.49	.96	4.49	.11	.21	.33	.75	.33	.15	.88	-	.50
30	.59	.95	3.25	.09	.19	.45	.64	.14	.13	.88	-	.18
31	-	.94	-	.16	.27	-	.55	-	.11	.87	-	.03
Mean	1.74	1.31	2.57	1.73	1.58	.87	4.91	2.23	1.60	0.95	0.87	0.87
Max.	3.32	2.78	5.75	2.77	2.24	7.05	6.73	3.09	2.58	1.09	1.18	1.52
Min.	0.96	0.94	0.93	1.09	1.19	1.47	2.55	1.82	1.11	0.87	0.80	0.76

WATER YEAR 1972 : Max. 7.05 m. Min. 0.76 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.04	3.18	0.92	14	2.25	3.42	101	11	6.36	1.56	0.68	0.65
2	1.16	3.18	1.20	12	2.60	5.48	94	10	5.48	1.52	0.65	0.59
3	1.32	2.60	2.65	12	2.65	4.38	92	9.32	5.04	1.44	0.65	0.53
4	2.60	2.10	5.48	12	2.70	4.14	96	8.92	4.74	1.40	0.62	0.50
5	3.18	1.88	6.52	12	2.40	3.48	93	8.44	4.50	1.40	0.62	0.50
6	2.80	1.80	8.52	13	2.20	3.66	95	7.96	4.32	1.32	0.62	0.48
7	6.76	1.64	10	13	2.20	14	129	7.48	4.02	1.28	0.59	0.46
8	8.52	1.48	8.52	11	2.10	49	113	7.24	3.90	1.24	0.59	0.48
9	8.44	1.44	5.22	8.04	2.65	154	86	7.24	5.10	1.20	0.59	0.46
10	12	1.36	3.90	6.28	4.44	165	69	8.12	8.20	1.12	0.59	0.46
11	21	1.24	3.30	5.22	7.88	139	66	7.72	12	1.12	0.56	0.44
12	18	1.20	4.80	4.62	7.88	114	58	7.64	11	1.04	0.53	0.44
13	13	1.68	7.64	4.14	8.28	86	46	6.76	10	1.00	0.53	0.42
14	13	7.48	10	3.84	8.84	66	42	5.88	7.48	1.00	0.53	0.42
15	10	14	11	3.66	8.36	53	47	5.56	5.16	0.96	0.53	0.59
16	8.20	8.60	13	3.84	8.44	52	42	6.36	4.26	0.92	0.50	0.53
17	7.08	4.50	10	4.02	8.92	58	37	6.44	3.72	0.92	0.50	0.48
18	5.34	3.48	7.32	3.66	8.20	64	38	7.40	3.36	0.88	0.53	0.46
19	4.02	2.75	5.10	3.18	6.36	56	65	9.08	3.12	0.88	0.96	0.62
20	3.24	3.42	4.14	2.85	4.98	50	68	11	2.90	0.88	1.92	0.62
21	2.70	3.90	4.92	2.65	4.20	54	56	10	2.75	0.84	1.24	0.56
22	2.35	3.06	6.28	2.55	3.60	60	44	11	2.55	0.84	0.96	0.56
23	2.15	2.40	11	2.35	3.00	62	37	10	2.35	0.84	0.88	0.53
24	2.00	1.92	38	2.20	2.75	67	30	9.40	2.25	0.84	0.92	0.53
25	2.05	1.64	39	2.15	2.80	67	25	9.80	2.10	0.84	0.92	0.56
26	2.50	1.44	55	2.10	2.65	77	21	18	1.96	0.77	0.77	0.62
27	2.25	1.28	72	1.92	2.30	89	18	13	1.92	0.77	0.71	1.32
28	2.25	1.16	64	1.76	2.10	96	16	9.80	1.88	0.74	0.65	3.72
29	3.54	1.04	38	1.64	2.05	99	14	9.70	1.80	0.74	–	3.60
30	4.14	1.00	20	1.56	1.96	107	13	8.12	1.72	0.74	–	1.92
31	–	0.96	–	1.84	2.35	–	12	–	1.64	0.71	–	1.32
Total	176.63	88.81	477.43	175.07	134.09	1,922.56	1,763	268.38	137.58	31.75	20.34	25.37
Mean	5.89	2.86	15.9	5.65	4.32	64.1	56.9	8.95	4.44	1.02	0.73	0.82
Max.	21	14	72	14	8.92	165	129	18	12	1.56	1.92	3.72
Min.	1.04	0.96	0.92	1.56	1.96	3.42	12	5.56	1.64	0.71	0.50	0.42
Runoff - MCM.	15.261	7.673	41.250	15.126	11.585	166.109	152.323	23.188	11.887	2.743	1.757	2.192

WATER YEAR 1972 : Max. 165 Min. 0.42 Mean 14.3 Annual Runoff 451.095 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.9, 72	23.00	7.19	190				

RAYONG RIVER BASIN

Khlong Ta Not at Ban Thap Chum, Chanthaburi (Z1)

Location: Lat. 12°-47'-56" N., Long. 101°-54'-32" E., on right bank about 9 kilometers from extrance 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.

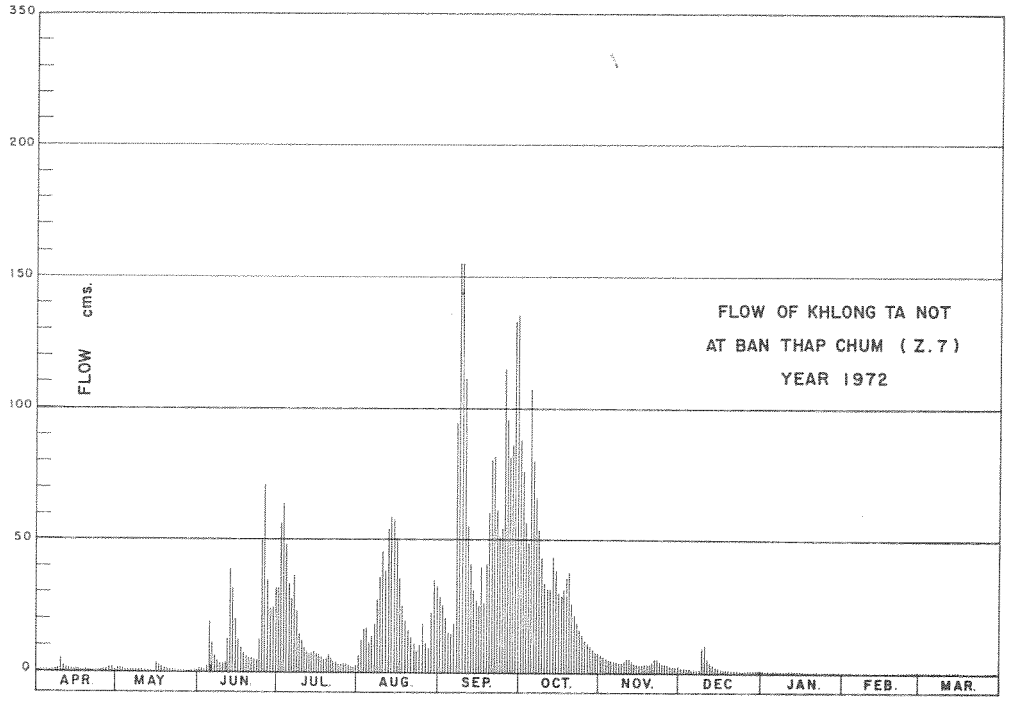
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 183 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.67	3.03	3.11	5.22	3.75	5.02	7.14	3.57	3.09	2.78	2.65	2.59
2	.67	2.96	2.89	6.19	4.20	4.91	6.79	.52	.07	.78	.64	.59
3	.72	.89	.88	.40	.43	.63	.23	.46	.04	.78	.63	.59
4	.79	.85	3.18	5.92	.48	.38	5.91	.43	.01	.76	.63	.59
5	.77	.82	4.64	.47	.14	.25	7.63	.40	.00	.76	.63	.59
6	2.74	2.79	3.99	5.08	4.26	4.63	6.83	3.36	2.99	2.75	2.63	2.60
7	.86	.78	.58	.50	.64	7.24	.47	.34	.97	.75	.63	.60
8	.82	.77	.36	4.95	5.10	8.79	.17	.32	.97	.73	.63	.59
9	3.47	.80	.24	.50	.48	.79	5.82	.29	3.82	.73	.63	.59
10	.01	.82	.25	.20	.84	.16	.38	.39	.95	.72	.65	.59
11	3.01	2.77	3.31	3.97	5.54	6.26	5.30	3.50	3.48	2.71	2.63	2.59
12	2.99	.75	4.57	.80	6.07	5.73	.14	.40	.28	.71	.62	.59
13	.95	.74	5.56	.69	.25	.37	.30	.29	.20	.71	.62	.59
14	.94	.75	.22	.79	.23	.13	.71	.23	.12	.70	.62	.59
15	.89	.79	4.56	.80	.08	4.94	.39	.20	.06	.69	.61	.59
16	2.86	3.32	4.07	3.68	5.58	5.57	5.14	3.25	3.00	2.69	2.60	2.61
17	.84	.07	3.78	.63	4.97	4.99	.13	.27	2.98	.69	.60	.63
18	.81	.01	.60	.52	.73	5.19	.24	.22	.94	.69	.60	.63
19	.78	2.94	.52	.42	.49	6.11	.47	.20	.93	.69	.60	.62
20	.76	.90	.49	.64	.33	.90	.14	.31	.91	.69	.60	.61
21	2.75	2.88	3.53	3.62	4.21	6.94	4.85	3.50	2.90	2.68	2.61	2.61
22	.73	.85	.47	.42	3.98	.40	.74	.49	.88	.68	.61	.61
23	.72	.81	.37	.33	.79	5.97	.56	.38	.87	.68	.60	.60
24	.73	.78	4.32	.25	4.09	6.07	.38	.28	.86	.68	.60	.63
25	.80	.76	6.12	.22	.54	7.83	.24	.25	.85	.68	.60	.65
26	2.84	2.75	6.63	3.25	4.04	7.34	4.08	3.21	2.84	2.67	2.60	2.65
27	.95	.73	5.41	.28	3.84	6.92	3.94	.18	.83	.67	.59	.64
28	3.12	.72	4.86	.20	4.78	7.02	.88	.15	.82	.67	.59	.63
29	2.92	.71	.89	.15	.83	8.26	.78	.12	.81	.66	-	.63
30	.91	.70	5.28	.11	5.40	.31	.69	.11	.79	.65	-	.62
31	-	.83	-	.21	.20	-	.63	-	.78	.65	-	.61
Mean	2.89	2.86	4.39	4.35	4.97	6.44	5.49	3.33	3.08	2.71	2.62	2.61
Max.	3.47	3.32	6.63	6.40	6.25	8.79	7.63	3.57	3.95	2.78	2.65	2.65
Min.	2.67	2.70	2.88	3.11	3.75	4.25	3.63	3.11	2.78	2.65	2.59	2.59

WATER YEAR 1972 : Max. 8.79 m. Min. 2.59 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.07	1.48	1.97	31	7.70	27	89	5.93	1.84	0.34	0.05	0.00
2	0.07	1.10	0.76	57	13	25	77	5.48	1.72	0.34	0.04	0.00
3	0.16	0.76	0.72	64	16	19	58	4.94	1.54	0.34	0.03	0.00
4	0.37	0.60	2.46	49	17	15	48	4.67	1.36	0.28	0.03	0.00
5	0.31	0.48	19	37	12	14	107	4.40	1.30	0.28	0.03	0.00
6	0.22	0.37	10	28	14	19	78	4.04	1.25	0.25	0.03	0.00
7	0.64	0.34	6.02	37	19	92	66	3.86	1.15	0.25	0.03	0.00
8	0.48	0.31	4.04	25	28	155	56	3.68	1.15	0.19	0.03	0.00
9	5.03	0.40	2.96	17	36	155	46	3.41	8.42	0.19	0.03	0.00
10	1.36	0.48	3.05	13	46	129	34	4.31	9.90	0.16	0.05	0.00
11	1.36	0.31	3.59	10	38	59	33	5.30	5.12	0.13	0.03	0.00
12	1.25	0.25	18	8.20	53	44	29	4.40	3.32	0.13	0.02	0.00
13	1.05	0.22	39	7.10	59	34	33	3.41	2.60	0.13	0.02	0.00
14	1.00	0.25	31	8.10	58	29	44	2.87	2.04	0.10	0.02	0.00
15	0.76	0.37	18	8.20	53	25	35	2.60	1.66	0.09	0.01	0.00
16	0.64	3.68	11	7.00	38	39	29	3.05	1.30	0.09	0.00	0.01
17	0.56	1.72	8.00	6.50	26	26	29	3.23	1.20	0.09	0.00	0.03
18	0.44	1.36	6.20	5.48	21	30	31	2.78	1.00	0.09	0.00	0.03
19	0.34	1.00	5.48	4.58	17	54	37	2.60	0.95	0.09	0.00	0.02
20	0.28	0.80	5.21	6.60	15	80	29	3.59	0.85	0.09	0.00	0.01
21	0.25	0.72	5.57	6.40	13	82	23	5.30	0.80	0.08	0.01	0.01
22	0.19	0.60	5.03	4.58	10	64	21	5.21	0.72	0.08	0.01	0.01
23	0.16	0.44	4.13	3.77	8.10	50	18	4.22	0.68	0.08	0.00	0.00
24	0.16	0.34	14	3.05	11	53	15	3.32	0.64	0.08	0.00	0.03
25	0.40	0.28	55	2.78	18	115	13	3.05	0.65	0.08	0.00	0.05
26	0.56	0.25	71	3.05	11	96	11	2.69	0.56	0.07	0.00	0.05
27	1.05	0.19	35	3.32	8.64	81	9.78	2.46	0.52	0.07	0.00	0.04
28	2.04	0.16	24	2.60	22	85	9.08	2.25	0.48	0.07	0.00	0.03
29	0.90	0.13	24	2.25	23	133	8.00	2.04	0.44	0.06	–	0.03
30	0.85	0.10	32	1.97	35	135	7.10	1.97	0.37	0.05	–	0.02
31	–	0.52	–	2.69	30	–	6.50	–	0.34	0.05	–	0.01
Total	22.98	20.01	466.19	466.22	776.44	1,964	1,129.46	111.06	55.87	4.42	0.47	0.38
Mean	0.77	0.64	15.5	15.0	25.0	65.5	36.4	3.70	1.80	0.142	0.017	0.012
Max.	5.03	3.68	71	64	59	155	107	5.93	9.90	0.34	0.05	0.05
Min.	0.07	0.10	0.72	1.97	7.70	14	6.50	1.97	0.34	0.05	0.00	0.00
Runoff - mcm.	1.985	1.729	40.279	40.281	67.084	169.690	97.585	9.596	4.827	0.382	0.041	0.033

WATER YEAR 1972 : Max. 155 Min. 0.00 Mean 13.7 Annual Runoff 433.512 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9, 72	01.00	9.07	168				

CHANTHABURI RIVER BASIN

Chanthaburi River at Ban Puk, Chanthaburi (Z13)

Location: Lat. 12°-45'-40" N., Long. 102°-18'-35" E., on left bank infront of wat Puk, Ban Puk, Ampnoe 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.

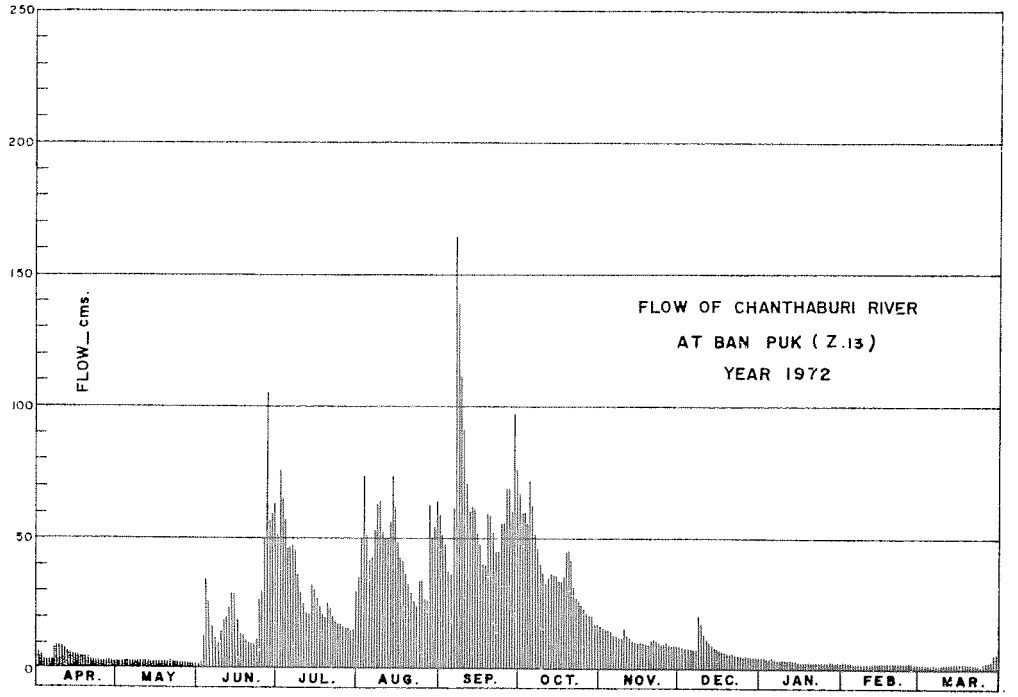
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 108 discharge measurements made in 1973.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.64	0.46	0.39	2.11	1.68	2.27	2.52	1.09	0.76	0.56	0.42	0.34
2	.57	.46	.50	.74	2.11	.08	.33	.06	.75	.56	.42	.34
3	.49	.46	1.07	.44	.70	.03	.35	.02	.73	.56	.41	.33
4	.48	.46	.66	.31	.17	1.80	.23	0.99	.72	.56	.40	.32
5	.48	.46	.39	1.99	1.89	.73	.66	.98	.71	.56	.40	.31
6	0.49	0.46	1.11	2.03	1.89	2.48	2.31	0.96	0.70	0.53	0.40	0.30
7	.72	.45	0.95	.04	2.14	4.59	.11	.93	.70	.52	.40	.29
8	.76	.45	.85	1.98	.42	3.74	1.98	.92	1.25	.51	.39	.28
9	.74	.45	.81	.70	.46	.39	.84	.96	.12	.50	.39	.32
10	.75	.45	1.17	.49	.18	2.94	.74	1.07	0.97	.50	.38	.33
11	0.69	0.45	1.17	1.36	2.10	2.58	1.95	0.94	0.89	0.49	0.38	0.34
12	.65	.46	.26	.27	.10	.34	.73	.89	.83	.49	.38	.35
13	.61	.46	.49	.23	.28	.40	.75	.86	.77	.49	.38	.35
14	.59	.46	.53	.64	.70	.38	.73	.84	.74	.48	.38	.35
15	.58	.46	.30	.58	.33	.13	.72	.84	.71	.47	.38	.33
16	0.58	0.46	1.09	1.46	2.06	2.04	1.66	0.83	0.69	0.46	0.38	0.34
17	.55	.46	0.98	.37	1.89	1.84	.67	.83	.67	.46	.39	.34
18	.56	.45	.95	.28	.86	.84	.72	.82	.66	.46	.40	.34
19	.56	.44	.87	.22	.70	2.33	.96	.84	.65	.46	.40	.34
20	.54	.43	.84	.41	.64	.31	.97	.90	.63	.46	.40	.33
21	0.50	0.42	0.82	1.32	1.55	2.15	1.70	0.88	0.63	0.45	0.40	0.32
22	.50	.41	.77	.24	.42	1.97	.56	.84	.61	.45	.39	.31
23	.48	.40	.84	.17	.34	.98	.43	.82	.60	.45	.39	.30
24	.49	.40	1.42	.13	.65	2.25	.39	.80	.58	.45	.39	.32
25	.49	.40	.56	.12	.66	.25	.36	.84	.58	.45	.38	.36
26	0.47	0.39	2.19	1.11	1.45	2.57	1.28	0.81	0.58	0.45	0.39	0.45
27	.46	.39	3.41	.08	.41	.58	.24	.80	.58	.44	.37	.50
28	.46	.37	2.27	.07	2.39	.31	.22	.79	.58	.44	.35	.58
29	.47	.36	.34	.04	.09	3.24	.18	.77	.57	.43	-	.62
30	.47	.36	.42	.07	.26	2.69	.14	.78	.56	.43	-	.64
31	-	.36	-	.52	.44	-	.13	-	.56	.43	-	.66
Mean	0.56	0.43	1.31	1.15	2.00	2.44	1.76	0.89	0.65	0.48	0.39	0.37
Max.	0.76	0.46	3.41	2.74	2.70	4.59	2.66	1.09	1.25	0.56	0.42	0.66
Min.	0.46	0.36	0.39	1.04	1.34	1.73	1.13	0.77	0.56	0.43	0.35	0.28

WATER YEAR 1972 : Max. 4.59 m. Min. 0.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.80	2.60	1.90	49	34	56	66	16	8.20	4.20	2.20	1.40
2	4.40	2.60	3.00	75	49	48	58	15	8.00	4.20	2.20	1.40
3	2.90	2.60	15	63	73	46	59	14	7.60	4.20	2.10	1.30
4	2.80	2.60	33	57	52	38	54	14	7.40	4.20	2.00	1.20
5	2.80	2.60	25	45	41	35	71	13	7.20	4.20	2.00	1.10
6	2.90	2.60	16	46	41	64	57	12	7.00	3.60	2.00	1.00
7	7.40	2.50	12	47	51	163	49	12	7.00	3.40	2.00	0.90
8	8.20	2.50	10	44	62	121	44	11	20	3.20	1.90	0.80
9	7.80	2.50	9.20	34	63	103	39	12	17	3.00	1.90	1.20
10	8.00	2.50	18	28	52	83	36	15	12	3.00	1.80	1.30
11	6.80	2.50	18	24	49	68	32	12	11	2.90	1.80	1.40
12	6.00	2.60	21	21	49	59	35	11	9.60	2.90	1.80	1.50
13	5.20	2.60	28	20	56	61	36	10	8.40	2.90	1.80	1.50
14	4.80	2.60	29	32	73	60	35	9.80	7.80	2.80	1.80	1.50
15	4.60	2.60	22	30	58	50	35	9.40	7.20	2.70	1.80	1.30
16	4.60	2.60	16	27	47	47	33	9.60	6.80	2.60	1.80	1.40
17	4.00	2.60	13	24	41	39	33	9.60	6.40	2.60	1.90	1.40
18	4.20	2.50	12	21	40	39	35	9.40	6.20	2.60	2.00	1.40
19	4.20	2.40	10	20	34	58	44	9.80	6.00	2.60	2.00	1.40
20	3.80	2.30	9.80	25	32	57	44	11	5.60	2.60	2.00	1.30
21	3.00	2.20	9.40	23	29	51	34	11	5.60	2.50	2.00	1.20
22	3.00	2.10	8.40	20	26	44	30	9.80	5.20	2.50	1.90	1.10
23	2.80	2.00	9.80	18	23	44	26	9.40	5.00	2.50	1.90	1.00
24	2.90	2.00	26	17	33	55	25	9.00	4.60	2.50	1.90	1.20
25	2.90	2.00	30	17	33	55	24	9.80	4.60	2.50	1.80	1.60
26	2.70	1.90	53	16	26	68	21	9.20	4.60	2.50	1.90	2.50
27	2.60	1.90	104	15	25	68	20	9.00	4.60	2.40	1.70	3.00
28	2.60	1.70	56	15	61	57	20	8.80	4.60	2.40	1.50	4.60
29	2.70	1.60	59	14	49	96	18	8.40	4.40	2.30	–	5.40
30	2.70	1.60	62	15	55	73	17	8.60	4.20	2.30	–	5.80
31	–	1.60	–	29	63	–	17	–	4.20	2.30	–	6.20
Total	129.10	71.50	739.50	931	1,420	1,906	1,147	328.60	228.00	91.10	53.40	59.30
Mean	4.30	6.47	24.6	30.0	45.8	63.5	37.1	10.9	7.35	2.94	1.91	1.91
Max.	8.20	2.60	104	75	73	163	71	16	20	4.20	2.20	6.20
Min.	2.60	1.60	1.90	14	23	35	17	8.40	4.20	2.30	1.50	0.80
Runoff - mcm.	11.154	6.178	63.893	80.438	122.688	164.678	99.101	28.391	19.699	7.871	4.614	5.123

WATER YEAR 1972 : Max. 163 Min. 0.80 Mean 19.5 Annual Runoff 613.829 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7, 72	12.00	4.79	173				

MAE KLONG RIVER BASIN

Khwae Yai at Kaeng Riang, Kanchanaburi (K6)

Location: Lat. 14°-25'-43" N., Long. 99°-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.(A.D.)

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 hourly.

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.

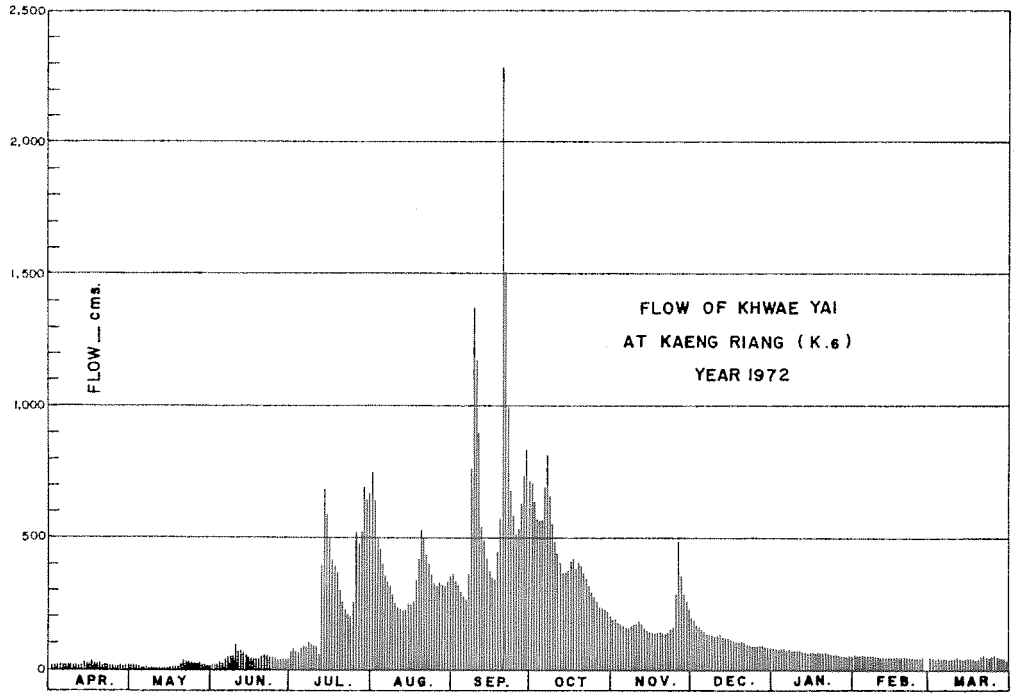
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 156 discharge measurements made during 1966-1970.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55.87	55.85	55.87	56.71	61.43	59.33	61.23	57.87	57.93	56.66	56.30	56.13
2	.86	.81	.86	.67	.05	.08	60.95	.79	.74	.64	.29	.12
3	.88	.78	.92	.63	60.41	.00	.53	.71	.61	.63	.28	.12
4	.94	.77	56.01	.58	59.97	58.78	.51	.65	.50	.61	.28	.11
5	.84	.75	.01	.73	.67	.55	.57	.57	.41	.60	.27	.11
6	55.85	55.74	56.19	56.86	59.30	58.44	61.26	57.52	57.34	56.59	56.26	56.10
7	.92	.75	.39	.82	59.10	.83	.68	.49	.28	.57	.26	.10
8	.89	.72	.35	57.05	58.96	61.38	60.80	.59	.24	.56	.25	.09
9	.88	.71	.50	56.88	.65	63.34	.31	.69	.23	.55	.25	.12
10	.82	.69	.90	.79	.43	62.77	59.98	.73	.27	.54	.24	.13
11	55.82	55.69	56.59	56.83	58.21	61.02	59.81	57.79	57.27	56.52	56.23	56.13
12	.88	.68	.61	57.56	.18	60.25	.54	.60	.23	.51	.22	.12
13	56.09	.67	.50	60.12	.16	60.08	.32	.51	.17	.50	.22	.11
14	55.97	.65	.39	61.13	.30	59.73	.35	.42	.10	.48	.21	.09
15	56.05	.64	.32	60.49	.43	.38	.38	.36	.07	.47	.21	.08
16	56.14	55.64	56.24	59.91	58.36	59.19	59.61	57.33	57.05	56.46	56.20	56.11
17	55.99	.65	.19	.61	.53	.07	.68	.36	56.98	.45	.20	.09
18	.95	.71	.15	59.53	59.46	.87	.41	.32	.95	.44	.19	.08
19	56.00	.91	.26	.36	59.85	60.65	.58	.38	.93	.43	.18	.16
20	55.93	56.08	.44	58.79	60.36	65.51	.51	.33	.90	.42	.18	.26
21	55.87	56.19	56.48	58.39	60.10	63.87	59.28	57.28	56.87	56.41	56.17	56.31
22	.84	.10	.41	.23	59.79	61.90	.13	.39	.85	.39	.17	.24
23	.81	.08	.37	.07	.56	60.99	58.89	.56	.82	.38	.16	.24
24	.79	.03	.29	.00	.24	.54	.74	.60	.80	.37	.16	.25
25	.80	.01	.22	.59	.07	.23	.54	58.78	.78	.36	.15	.28
26	55.86	55.99	56.18	60.34	58.96	60.41	58.38	60.11	56.76	56.35	56.14	56.23
27	.80	56.00	.15	.05	59.09	61.03	.25	59.22	.74	.34	.14	.20
28	.83	55.94	.22	.40	58.98	.37	.21	58.68	.73	.33	.13	.18
29	.82	.87	.21	61.19	.97	.75	.19	.50	.70	.32		.15
30	.86	.86	.39	60.98	59.15	.26	.11	.19	.69	.32		.14
31		.84		61.10	.29		57.98		.67	.31		.12
Mean	55.96	55.83	56.27	58.59	59.26	60.39	59.69	57.85	57.09	56.47	56.21	56.15
Max.	56.14	56.19	56.90	61.19	61.43	65.51	61.68	60.11	57.93	56.66	56.30	56.31
Min.	55.79	55.64	55.86	56.58	58.16	58.44	57.98	57.28	56.67	56.31	56.13	56.08

WATER YEAR 1972 : Max. 65.51 m. Min. 55.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	24	25	85	753	370	709	197	203	81	53	41
2	25	22	25	82	669	335	647	189	183	79	52	40
3	26	21	28	78	543	325	564	180	170	78	52	40
4	29	20	34	74	466	298	561	174	159	77	52	40
5	24	19	34	87	420	271	572	166	150	76	51	40
6	24	19	45	98	366	259	715	161	143	75	50	39
7	28	19	59	95	338	304	816	158	137	74	50	39
8	26	18	56	115	320	742	617	168	133	73	50	38
9	26	17	68	102	282	1,368	525	178	132	72	50	40
10	23	17	102	92	258	1,163	468	182	136	71	49	41
11	23	17	75	96	234	662	441	187	136	70	48	41
12	26	16	77	65	231	514	401	169	132	69	47	40
13	38	16	68	491	229	485	369	160	126	68	47	40
14	31	15	59	687	244	429	373	151	120	66	47	38
15	36	15	54	557	258	377	377	145	117	66	47	38
16	42	15	49	457	251	351	411	142	115	65	46	40
17	32	15	45	411	269	334	422	145	109	64	46	38
18	30	17	42	399	389	450	381	141	106	63	45	38
19	33	28	50	374	447	587	407	147	105	62	45	43
20	27	38	63	298	534	2,284	396	142	102	62	45	50
21	25	45	66	253	488	1,568	363	137	99	61	44	54
22	24	39	61	236	438	878	342	148	97	59	44	49
23	22	38	58	219	404	656	311	165	95	59	43	49
24	21	35	52	211	358	566	293	169	93	58	43	49
25	22	34	47	276	334	510	270	298	91	57	42	52
26	25	32	45	530	320	543	253	490	89	56	42	48
27	22	33	42	479	337	665	238	358	88	56	42	46
28	23	29	47	541	323	739	234	286	87	55	41	45
29	28	25	47	698	321	824	232	266	84	54		42
30	25	25	59	654	345	715	223	232	83	54		42
31		24		680	365		209		82	54		40
Total	811	747	1,582	9,620	11,534	19,572	13,140	5,828	3,702	2,034	1,313	1,320
Mean	27.0	24.0	52.7	310	372	652	424	194	119	65.6	46.9	42.6
Max.	42	45	102	698	753	2,284	816	490	203	81	53	54
Min.	21	15	25	74	229	259	209	137	82	54	41	38
Runoff - mcm.	70.070	64.540	136.685	831.168	996.538	1,691.021	1,135.296	503.539	319.853	175.738	113.443	114.048

WATER YEAR 1972 : Max. 2,284 Min. 15 Mean 195 Annual Runoff 6,151.939 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.20	18.00	66.72	2,891				

MAE KLONG RIVER BASIN

Khwae Noi at Wang Pho, Kanchanaburi (K.9)

Location: Lat. 14°-06'-56" N., Long. 99°-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 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: 1962-1974

Rating Operation:

Period of Rating: 1962-1964
Rated by Float: –
Rated by Current Meter: 1962-1964

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

Overbank Flow Conditions: No overbank flow.

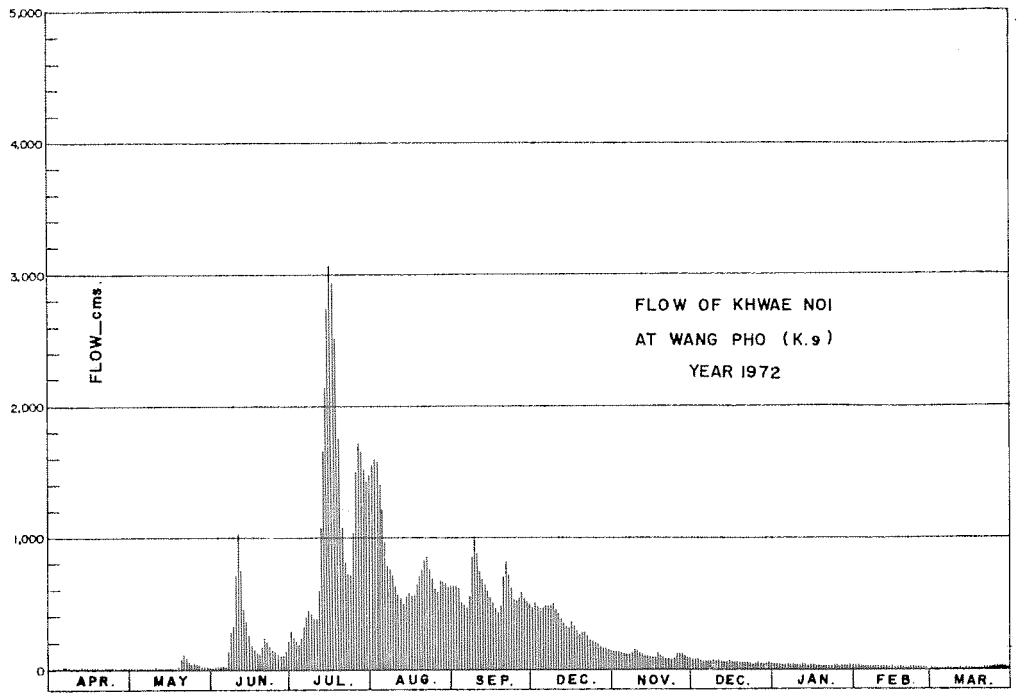
General Description: Records fair. Stage-discharge relation defined by 508 discharge measurements made during 1962-1964.

Remarks: * Estimated Gage Height by Comparing with K10 for period July 14-19, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33.86	33.96	34.14	38.10	46.07	40.91	39.51	36.40	35.49	34.73	34.37	34.00
2	.89	.92	.18	37.59	.28	.93	.91	.30	.42	.71	.36	33.98
3	.89	.88	.22	.34	.17	.64	.71	.24	.38	.70	.36	.97
4	.94	.85	.47	36.94	45.47	39.98	.47	.18	.32	.69	.35	.96
5	.98	.82	.82	37.52	44.03	.84	.57	.16	.29	.69	.33	.97
6	34.14	33.80	35.01	38.57	42.64	39.50	39.81	36.12	35.25	34.68	34.32	34.95
7	.14	.79	36.74	39.19	41.90	40.11	.68	.04	.25	.67	.31	.95
8	.10	.78	38.31	.50	.81	42.43	.72	.14	.24	.66	.30	.94
9	.01	.77	.53	.22	.48	43.21	.84	.59	.23	.65	.29	.95
10	.01	.75	41.58	38.99	40.91	42.45	.46	.46	.20	.65	.28	.96
11	33.94	33.74	43.40	38.57	40.48	41.48	39.17	36.11	35.18	34.64	34.28	33.97
12	.94	.74	41.50	41.01	.15	.16	38.87	35.97	.14	.63	.27	.96
13	34.07	.73	39.72	45.64	39.86	40.93	.56	.87	.12	.63	.27	.95
14	.07	.73	38.70	49.08*	40.36	.66	.39	.78	.12	.62	.26	.94
15	.06	.73	37.74	50.56*	.46	.31	.31	.75	.07	.61	.26	.93
16	34.00	33.72	36.98	51.21*	40.31	39.88	38.75	35.74	35.03	34.60	34.25	33.93
17	.24	.73	.52	50.88*	.42	.59	.55	.81	34.99	.59	.25	.92
18	.04	.81	.18	49.70*	.93	.30	.05	36.22	.97	.58	.24	.91
19	.03	34.27	.11	47.80*	41.38	.75	37.82	35.99	.95	.57	.23	.93
20	.02	35.57	.96	45.27	.90	41.49	38.03	.77	.92	.56	.22	34.01
21	33.94	35.98	37.55	43.09	42.26	42.11	38.03	35.67	34.91	34.55	34.21	34.08
22	.90	.46	.14	41.92	.36	41.41	37.67	.63	.89	.54	.20	.08
23	.87	34.88	36.89	.44	41.86	40.74	.43	.63	.87	.53	.19	.01
24	.85	.91	.49	.52	.26	.20	.26	.67	.85	.52	.17	.02
25	.84	.90	.28	43.62	40.76	39.99	.12	36.23	.84	.50	.07	.17
26	33.83	34.72	36.10	45.93	40.51	40.25	36.99	36.22	34.83	34.49	34.01	34.26
27	.85	.58	35.88	46.87	41.19	.54	.87	.08	.81	.49	.01	.15
28	.93	.40	.95	.55	.10	.21	.73	35.85	.79	.48	.00	.10
29	34.11	.26	36.33	45.88	40.84	39.94	.60	.68	.77	.48		.05
30	.08	.16	37.47	.50	.95	.73	.51	.56	.75	.47		.00
31		.12		.75			.47		.74	.47		33.98
Mean	33.98	34.21	37.06	43.25	41.84	40.67	38.35	35.96	35.05	34.59	34.24	34.00
Max.	34.24	35.98	43.40	51.21	46.28	43.21	39.91	36.59	35.49	34.73	34.37	34.96
Min.	33.83	33.72	34.14	36.94	39.86	39.30	36.47	35.56	34.74	34.47	34.00	33.91

WATER YEAR 1972 : Max. 51.21 m. Min. 33.72 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	17	22	300	1,553	645	465	150	87	44	30	18
2	15	16	23	252	1,597	648	513	142	83	43	29	17
3	15	14	25	230	1,574	608	489	138	81	43	29	17
4	16	13	34	194	1,427	522	460	134	77	43	29	17
5	17	13	49	246	1,151	505	472	132	75	43	28	17
6	22	12	59	356	910	464	501	129	73	42	28	16
7	22	12	177	427	792	537	486	124	73	42	27	16
8	21	11	321	464	778	877	490	131	72	41	27	16
9	18	11	348	430	728	1,007	505	165	72	41	27	16
10	18	10	743	394	644	880	459	155	70	41	26	17
11	16	10	1,039	352	585	728	424	129	69	41	26	17
12	16	10	731	659	542	680	388	119	66	40	26	17
13	20	9.90	490	1,462	507	648	351	112	65	40	26	16
14	20	9.90	368	2,306*	568	610	331	106	65	40	26	16
15	20	9.90	266	2,810*	582	561	321	103	62	39	26	16
16	18	9.60	197	3,060*	561	510	374	103	60	39	25	16
17	25	9.90	160	2,930*	577	475	350	108	57	39	25	16
18	19	12	134	2,506*	648	440	295	136	56	38	25	15
19	19	26	129	1,954*	713	494	273	120	55	38	25	16
20	19	92	195	1,387	792	729	293	105	54	37	25	18
21	16	120	248	986	850	826	293	98	53	37	24	20
22	15	86	212	795	866	717	259	96	52	37	24	20
23	14	52	189	722	786	622	238	96	51	36	24	18
24	13	53	159	732	699	548	222	98	50	36	23	19
25	13	53	141	1,078	624	523	210	137	50	35	20	23
26	13	44	128	1,523	589	554	198	136	49	35	18	26
27	13	38	113	1,729	685	594	188	127	48	35	18	22
28	16	31	117	1,656	672	549	176	110	47	34	18	21
29	21	26	144	1,513	664	517	166	99	46	34		19
30	20	23	241	1,433	636	492	159	92	45	34		18
31		22		1,485	651		156		45	34		17
Total	524	876.20	7,200	36,369	24,951	18,510	10,505	3,630	1,908	1,201	704	553
Mean	17.5	28.3	240	1,173	805	617	339	121	61.5	38.74	25.1	17.8
Max.	25	120	1,039	3,060	1,597	1,007	513	165	87	44	30	26
Min.	13	9.60	22	194	507	440	156	92	45	34	18	15
Runoff - mcm.	45.274	75.704	622.080	3,142.282	2,155.766	1,599.264	907.632	313.632	164.851	103.766	60.826	47.779

WATER YEAR 1972 : Max. 3,060 Min. 9.60 Mean 293 Annual Runoff 9,238.856 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.16	15.00	51.28	3,088				

MAE KLONG RIVER BASIN

Khwae Noi at Ban Lum Sum, Kanchanaburi (K10)

Location: Lat. 14°-05'-40" N., Long. 99°-10'-28" E., on left bank about 100 meters upstream from Ban Lum Sum railway station, Amphoe Sai Yok, Kanchanaburi.

Drainage Area: 7,008 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 30.40 m. (M.S.L.)

Bench Mark:

- 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 but periodic curves are used for flow computation.

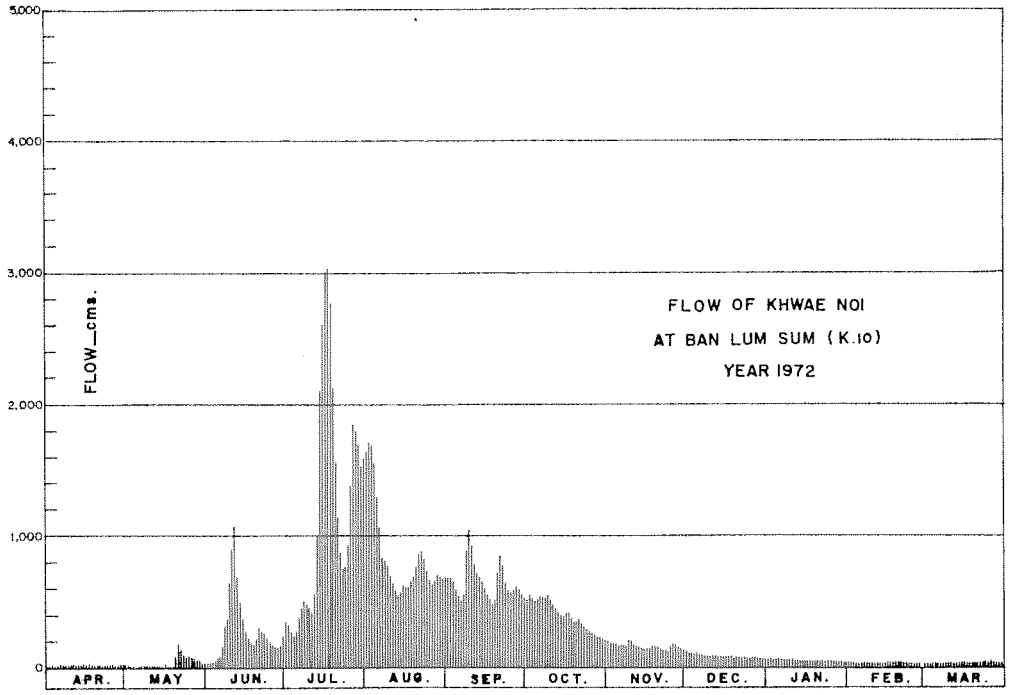
Overbank Flow Conditions: Overbank flow starts at elevation + 47.90 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 177 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31.13	31.21	31.50	35.60	43.89	38.59	37.15	33.80	32.79	31.95	31.59	31.36
2	.12	.16	.55	.23	44.12	.57	.48	.71	.71	.94	.57	.36
3	.12	.13	.57	34.71	.06	.33	.40	.62	.65	.93	.56	.35
4	.17	.09	.78	.44	43.39	37.85	.12	.55	.60	.92	.55	.35
5	.20	.07	32.15	.82	42.00	.45	.16	.52	.56	.90	.55	.35
6	31.35	31.06	32.30	36.00	40.56	37.15	37.40	33.49	32.52	31.89	31.54	31.34
7	.34	.05	33.77	.69	39.67	.61	.33	.41	.50	.87	.54	.34
8	.32	.03	35.71	37.07	.54	39.91	.30	.48	.50	.86	.53	.33
9	.26	.02	36.00	36.84	.26	40.96	.49	.92	.49	.85	.52	.32
10	.26	.01	39.32	.56	38.62	.28	.16	.89	.47	.83	.51	.35
11	31.20	31.00	41.16	36.14	38.17	39.25	36.85	33.52	32.44	31.82	31.50	31.35
12	.20	30.99	39.47	37.76	37.80	38.84	.55	.35	.40	.81	.49	.35
13	.30	.99	37.58	42.76	.50	.65	.26	.23	.38	.80	.49	.33
14	.32	.99	36.41	45.74	.74	.36	.04	.14	.37	.78	.48	.32
15	.29	.99	35.43	47.48	38.08	.04	35.96	.09	.33	.76	.48	.31
16	31.24	30.98	34.59	48.47	37.95	37.54	36.28	33.11	32.28	31.76	31.48	31.33
17	.48	.99	.05	.57	38.02	.23	.25	.17	.24	.74	.47	.30
18	.28	31.03	33.67	47.65	.55	36.94	35.76	.41	.21	.73	.46	.30
19	.27	.41	.49	45.84	.99	37.24	.50	.37	.19	.72	.45	.30
20	.26	32.73	34.20	43.41	39.52	39.03	.60	.13	.17	.71	.45	.38
21	31.19	33.37	35.05	41.11	39.94	39.80	35.69	33.01	32.16	31.70	31.44	31.50
22	.15	32.96	34.69	39.72	40.05	.19	.42	32.96	.14	.69	.43	.50
23	.12	.35	.45	.11	39.59	38.47	.13	.95	.11	.67	.42	.50
24	.09	.25	.08	.32	38.96	.87	34.91	.98	.10	.66	.40	.51
25	.08	.28	33.76	41.14	.47	.62	.70	33.41	.08	.65	.39	.57
26	31.07	32.11	33.95	43.58	38.18	37.81	34.53	33.60	32.06	31.64	31.38	31.67
27	.08	31.95	.34	44.67	.66	38.13	.38	.45	.04	.63	.38	.54
28	.16	.77	.33	.44	.76	37.86	.26	.19	.02	.62	.37	.46
29	.26	.62	.66	43.79	.70	.57	.13	.00	.00	.61		.42
30	.29	.53	34.63	.40	.56	.37	.01	32.87	31.99	.60		.38
31		.49		.60	.62		33.90		.97	.59		.35
Mean	31.22	31.50	34.50	40.83	39.54	38.32	35.97	33.34	32.30	31.76	31.47	31.39
Max.	31.48	33.37	41.16	48.57	44.12	40.96	37.49	33.92	32.79	31.95	31.59	31.67
Min.	31.07	30.98	31.50	34.44	37.50	36.04	33.90	32.87	31.97	31.59	31.37	31.30

WATER YEAR 1972 : Max. 48.57 m. Min. 30.98 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	16	20	35	352	1,654	684	511	197	118	64	41	28
2	16	18	38	315	1,709	681	551	190	113	64	40	28
3	16	16	40	270	1,694	653	541	183	108	63	39	27
4	18	15	53	248	1,534	595	508	177	105	62	38	27
5	19	14	77	279	1,240	547	513	175	102	61	38	27
6	27	13	86	392	972	511	541	172	99	60	38	27
7	27	13	195	461	832	566	533	166	98	59	38	27
8	26	12	365	503	814	866	529	171	98	58	37	26
9	22	12	392	477	774	1,041	552	207	97	58	37	26
10	22	11	783	448	687	925	513	204	96	56	36	27
11	19	11	1,077	406	633	773	478	175	94	56	35	27
12	19	11	804	584	589	716	447	161	92	55	35	27
13	24	11	563	1,392	553	691	418	151	91	54	35	26
14	26	11	433	2,143	582	656	396	144	90	53	34	26
15	24	11	335	2,669	623	618	388	140	88	52	34	25
16	21	10	260	2,993	607	558	420	142	85	52	34	26
17	34	11	217	3,026	615	521	417	147	82	51	34	24
18	23	12	187	2,723	679	488	568	166	81	50	33	24
19	23	30	172	2,171	737	522	342	163	79	49	33	24
20	22	114	229	1,538	811	742	352	143	78	49	33	29
21	19	163	298	1,068	871	850	361	134	78	48	32	35
22	17	130	268	839	887	765	334	130	76	47	32	35
23	16	89	249	753	821	669	306	129	75	46	31	35
24	15	83	219	783	732	597	286	131	74	45	30	36
25	14	85	194	1,073	669	567	269	166	73	45	29	40
26	14	75	177	1,579	635	590	255	181	72	44	29	46
27	14	64	160	1,846	692	629	243	169	70	43	29	38
28	18	52	159	1,787	705	596	234	148	69	43	28	33
29	22	43	186	1,630	697	561	223	133	68	42		31
30	24	37	263	1,536	680	537	214	124	67	41		29
31		35		1,584	687		205		66	41		27
Total	617	,232	8,512	37,868	26,415	19,715	12,248	4,819	2,682	1,611	982	913
Mean	20.6	39.7	284	1,221	852	657	39.5	161	54.2	51.9	34.3	29.4
Max.	34	163	1,077	3,026	1,709	1,041	552	207	118	64	41	46
Min.	14	10	35	248	553	488	205	124	66	41	28	24
Runoff - MCM.	53.309	106.445	735.437	3,271.795	2,282.256	1,703.376	1,058.227	416.362	231.725	139.190	83.117	78.883

WATER YEAR 1972 : Max. 3,026 Min. 10 Mean 322 Annual Runoff 10,160.122mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.17	01.00	48.69	3,067				

MAE KLONG RIVER BASIN

Mae Klong River at Wang Khanai, Kanchanaburi (K11)

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: 1965-1969, 1972 to date.
Rated by Float: -
Rated by Current Meter: 1965-1969, 1972 to date.

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

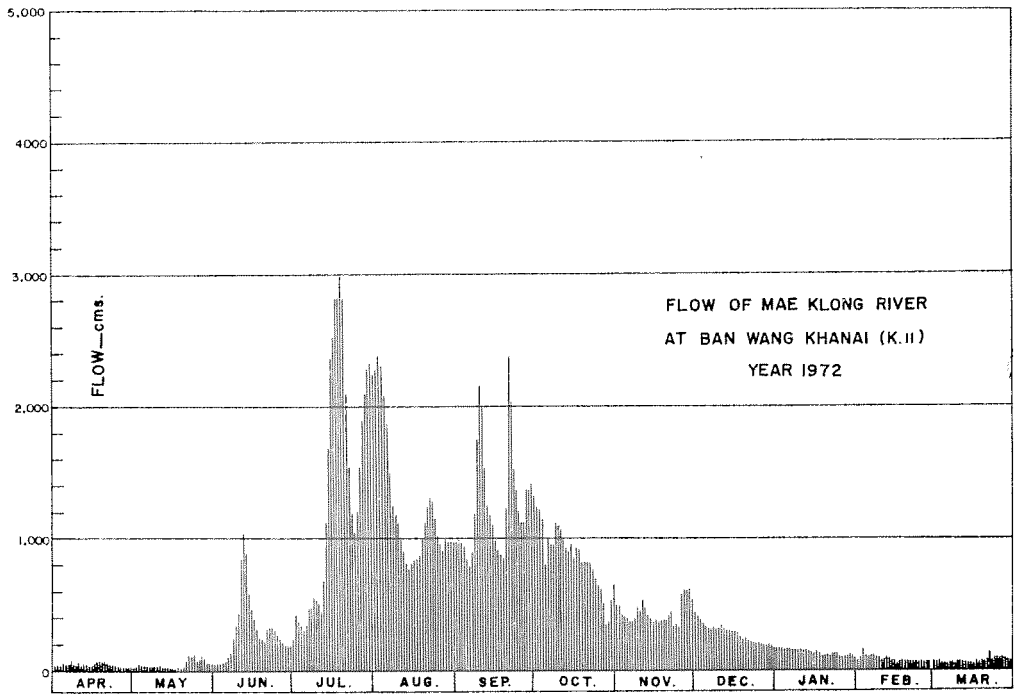
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 12 discharge measurements made in 1972. Flow regulated by Vachiralongkon Diversion Dam for irrigation of about 419,520 hectares above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.25	12.31	12.39	13.74	19.41	16.52	17.37	14.84	14.56	13.22	12.60	12.50
2	.29	.41	.43	14.49	.57	.56	.24	.84	.51	.22	.72	.53
3	.34	.45	.47	.27	.48	.51	.19	.52	.32	.25	13.08	.50
4	.43	.34	.62	.11	.29	.39	.01	.52	.24	.21	12.84	.38
5	.42	.24	.65	.02	18.98	.08	15.93	.48	.12	.18	.84	.44
6	12.37	12.25	12.84	14.10	18.40	15.93	16.58	14.32	14.02	13.18	12.80	12.44
7	.63	.23	.90	.72	17.72	16.26	.44	.35	13.99	.16	.86	.44
8	.36	.20	13.53	.83	.25	.72	.47	.40	14.14	.18	.81	.44
9	.35	.19	14.00	15.11	.10	18.31	.92	.78	.02	.12	.74	.35
10	.52	.18	.52	14.99	16.93	19.20	.88	.63	.06	.15	.60	.53
11	12.27	12.18	16.05	14.91	16.49	18.78	16.68	15.01	14.08	13.11	12.70	12.50
12	.41	.17	.68	.62	.20	17.70	.53	14.75	13.97	.12	.80	.44
13	.39	.15	.08	15.79	15.99	.22	.32	.52	.96	.11	.71	.49
14	.31	.10	15.18	18.12	.88	17.08	.33	.41	.94	13.04	.61	.47
15	.47	.10	14.78	19.56	16.04	16.86	.50	.26	.94	12.99	.62	.43
16	12.57	12.10	14.34	19.80	16.11	16.56	16.12	14.35	13.94	13.09	12.62	12.43
17	.56	.10	.04	20.20	.14	.34	.40	.23	.87	12.99	.65	.55
18	.59	.10	13.68	.24	.24	.19	.33	.32	.73	.88	.63	.43
19	.52	.11	.64	.45	.66	.00	.04	.34	.63	13.12	.63	.50
20	.52	.10	.51	.16	.99	17.26	.05	.37	.68	12.99	.60	.55
21	12.43	12.62	13.99	19.27	17.28	19.55	16.04	14.56	13.54	12.86	12.60	12.55
22	.38	.93	14.09	18.07	.43	.10	.04	.20	.52	13.00	.54	.96
23	.39	.85	.06	17.21	.35	17.94	15.90	.11	.50	.02	.60	.61
24	.31	.93	13.95	16.64	.05	.48	.63	.21	.49	.00	.52	.72
25	.30	.53	.78	.87	16.66	.06	.49	.59	.49	12.79	.55	.77
26	12.28	12.70	13.56	17.72	16.42	16.91	15.34	15.20	13.40	12.80	12.50	12.70
27	.28	.87	.52	18.73	.31	.97	14.89	.30	.38	.79	.50	.76
28	.28	.72	.39	19.22	.58	17.59	.16	.30	.36	.81	.50	.75
29	.28	.37	.39	.43	.51	.57	.32	.36	.38	.95		.68
30	.30	.49	.52	.51	.52	.69	.95	.10	.26	.89		.56
31		.40		.33	.52		15.46		.26	.79		.54
Mean	12.39	12.37	13.85	17.10	17.14	17.18	16.53	14.44	13.49	13.03	12.67	12.55
Max.	12.63	12.93	16.68	20.45	19.57	19.55	17.37	15.36	14.56	13.25	13.08	12.96
Min.	12.25	12.10	12.39	13.74	15.88	15.93	14.16	14.11	13.26	12.79	12.50	12.35

WATER YEAR 1972 : Max. 20.45 m. Min. 12.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33	39	50	258	2,268	972	1,284	490	425	167	74	62
2	37	51	54	410	2,367	986	1,233	490	414	167	90	66
3	35	56	58	364	2,312	969	1,215	417	374	172	145	62
4	54	44	77	330	2,196	931	1,146	417	357	166	107	49
5	52	32	80	312	2,022	832	785	408	332	161	107	55
6	47	33	107	328	1,728	785	993	374	312	161	101	55
7	78	31	116	463	1,426	889	947	380	306	158	110	55
8	46	28	219	488	1,237	1,041	956	391	336	161	102	55
9	45	27	308	554	1,180	1,684	1,113	476	312	151	93	45
10	64	26	417	526	1,117	2,142	1,099	442	320	156	74	66
11	35	26	822	506	963	1,918	1,027	530	324	150	87	62
12	51	26	1,027	440	870	1,418	976	469	302	151	101	55
13	50	24	832	743	803	1,226	908	417	300	150	88	61
14	39	20	571	1,597	770	1,172	912	393	296	138	75	58
15	58	20	476	2,361	819	1,092	966	362	296	130	77	54
16	70	20	380	2,524	841	986	844	380	296	146	77	54
17	69	20	316	2,804	851	915	934	355	282	130	80	68
18	73	20	246	2,832	883	867	912	374	256	113	78	54
19	64	21	239	2,983	1,020	806	819	378	237	115	78	62
20	64	21	216	2,776	1,138	1,241	822	385	246	130	74	68
21	54	77	306	2,184	1,248	2,355	819	426	221	110	74	68
22	49	121	326	1,575	1,308	2,084	819	349	218	132	67	126
23	50	108	320	1,222	1,276	1,519	776	330	214	135	74	75
24	39	121	298	1,014	1,161	1,328	695	351	212	132	64	90
25	38	66	265	1,095	1,020	1,164	655	433	212	100	68	97
26	36	87	225	1,426	940	1,110	613	576	197	101	62	87
27	36	111	218	1,893	905	1,131	502	602	194	100	62	95
28	36	90	195	2,154	993	1,372	341	602	190	102	62	94
29	36	47	195	2,281	969	1,364	374	619	194	124		84
30	38	61	218	2,330	973	1,414	516	552	174	114		69
31		50		2,220	973		650		174	100		67
Total	1,476	1,523	9,177	42,993	38,577	37,713	26,651	13,168	8,523	4,259	2,351	2,118
Mean	49.2	49.1	307	1,387	1,244	1,257	860	439	275	137	83.9	68.3
Max.	78	121	1,027	2,983	2,367	2,355	1,284	619	425	172	145	126
Min.	33	20	50	258	770	785	341	330	174	100	62	45
Runoff - MCM.	127.526	131.587	792.893	3,714.595	3,333.053	3,258.403	2,302.646	1,137.715	736.387	367.978	203.126	182.995

WATER YEAR 1972 : Max. 2,983 Min. 20 Mean 516 Annual Runoff 16,288.906 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 19	18.00	20.46	2,990				

KHWAE YAI RIVER BASIN

Lam Taphoen at Ban Thung Na Nang Rok, Kanchanaburi (K12)

Location: Lat. 14°-09'-15" N., Long. 99°-25'-06" E., on left bank about 50 meters downstream from Wat Thung Na Nang Rok, Tambon Lat Ya, Amphoe Muang, Kanchanaburi.

Drainage Area: 2,340 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom 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: Stable, no shifting adjustment for flow computation.

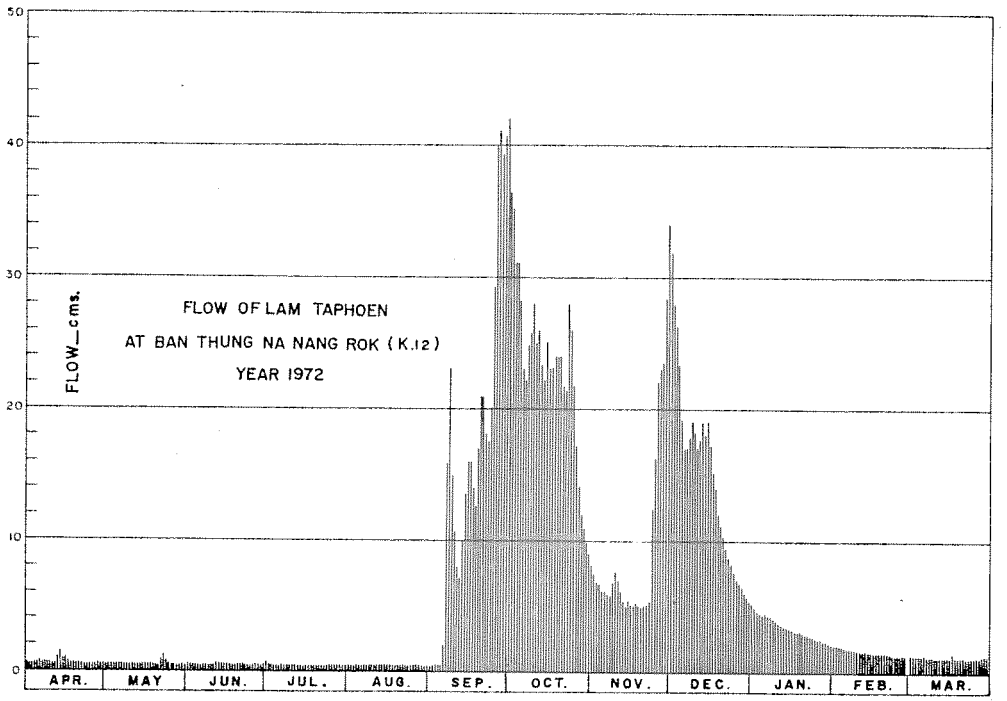
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 175 discharge measurements made in 1967.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.55	0.54	0.59	0.61	0.53	0.52	5.32	2.14	4.84	1.67	1.02	0.79
2	.55	.54	.55	.54	.52	.52	.03	.05	.51	.62	.01	.79
3	.55	.54	.53	.53	.53	.51	4.76	1.95	.17	.59	.00	.78
4	.55	.54	.53	.52	.52	.51	.73	.93	3.82	.56	0.98	.78
5	.62	.52	.53	.51	.52	.53	.26	.86	.56	.54	.97	.77
6	0.62	0.53	0.54	0.51	0.52	0.57	4.01	1.86	3.30	1.56	0.95	0.77
7	.57	.53	.53	.51	.54	3.01	3.90	.83	.25	.52	.94	.76
8	.56	.53	.53	.52	.57	.93	4.14	.80	.44	.50	.94	.76
9	.56	.53	.53	.52	.53	.15	.30	.99	.53	.48	.92	.77
10	.55	.52	.54	.52	.53	2.77	.42	2.09	.38	.43	.92	.75
11	0.55	0.53	0.55	0.52	0.52	2.16	4.15	1.98	3.29	1.40	0.91	0.75
12	.56	.52	.62	.53	.53	1.94	.32	.85	.38	.37	.90	.75
13	.87	.52	.59	.53	.52	2.32	.00	.71	.51	.36	.90	.74
14	.83	.53	.55	.53	.52	.83	3.83	.66	.37	.34	.89	.74
15	.65	.52	.55	.54	.52	3.14	4.20	.76	.48	.33	.89	.73
16	0.71	0.52	0.54	0.54	0.52	3.15	3.94	1.68	3.28	1.30	0.88	0.76
17	.57	.53	.54	.53	.52	2.94	.93	.67	.07	.23	.87	.85
18	.56	.53	.53	.54	.52	.72	4.07	.71	2.89	.29	.88	.74
19	.56	.53	.53	.53	.52	3.28	.09	.64	.74	.27	.86	.75
20	.56	.53	.53	.52	.52	.77	.11	.65	.59	.24	.85	.74
21	0.56	0.52	0.54	0.51	0.52	3.78	3.90	1.66	2.46	1.23	0.84	0.74
22	.55	.68	.54	.53	.52	.44	.72	.69	.34	.22	.83	.73
23	.55	.79	.53	.53	.52	.35	4.51	.74	.24	.18	.83	.73
24	.55	.61	.52	.53	.51	.61	.29	2.80	.16	.18	.83	.73
25	.55	.54	.52	.53	.51	4.78	3.70	3.08	.09	.15	.82	.75
26	0.54	0.53	0.55	0.53	0.51	5.61	3.34	3.83	2.02	1.13	0.81	0.75
27	.55	.52	.57	.53	.51	.68	2.92	.98	1.95	.10	.81	.74
28	.56	.53	.53	.53	.50	.46	.71	.99	.89	.09	.80	.77
29	.55	.53	.52	.53	.49	.56	.54	4.49	.82	.07		.80
30	.54	.52	.55	.53	.49	.72	.41	5.04	.76	.06		.80
31		.54		.53	.49		.27		.71	.04		.79
Mean	0.59	0.54	0.54	0.53	0.52	3.04	3.93	2.30	2.96	1.32	0.89	0.76
Max.	0.87	0.79	0.62	0.61	0.57	5.72	5.32	5.04	4.84	1.67	1.02	0.85
Min.	0.54	0.52	0.52	0.51	0.49	0.51	2.27	1.64	1.71	1.04	0.80	0.73

WATER YEAR 1972 : Max. 5.72 m. Min. 0.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	0.58	0.68	0.73	0.56	0.54	37	7.98	32	5.08	2.08	1.27
2	0.60	0.58	0.60	0.58	0.54	0.54	34	7.37	28	4.81	2.04	1.27
3	0.60	0.58	0.56	0.56	0.56	0.52	31	6.72	25	4.65	2.00	1.24
4	0.60	0.58	0.56	0.54	0.54	0.52	31	6.59	22	4.50	1.92	1.24
5	0.76	0.54	0.56	0.52	0.54	0.56	26	6.16	19	4.40	1.88	1.21
6	0.79	0.56	0.58	0.52	0.54	0.64	23	6.16	17	4.50	1.80	1.21
7	0.64	0.56	0.56	0.52	0.58	14	22	5.98	17	4.30	1.76	1.18
8	0.62	0.56	0.56	0.54	0.64	23	25	5.80	18	4.20	1.76	1.18
9	0.62	0.56	0.56	0.54	0.56	16	26	6.98	19	4.10	1.68	1.21
10	0.60	0.54	0.58	0.54	0.56	13	28	7.63	18	3.85	1.68	1.15
11	0.60	0.56	0.60	0.54	0.54	8.12	25	6.92	17	3.70	1.64	1.15
12	0.62	0.54	0.76	0.56	0.56	6.66	26	6.10	18	3.55	1.60	1.15
13	1.51	0.54	0.68	0.56	0.54	9.24	23	5.30	19	3.50	1.60	1.12
14	1.39	0.56	0.60	0.56	0.54	13	22	5.03	18	3.40	1.57	1.12
15	0.85	0.54	0.60	0.58	0.54	16	25	5.58	19	3.35	1.57	1.09
16	1.03	0.54	0.58	0.58	0.54	16	23	5.14	17	3.20	1.54	1.18
17	0.64	0.56	0.58	0.56	0.54	14	23	5.08	15	3.12	1.51	1.45
18	0.62	0.56	0.56	0.58	0.54	12	24	5.30	14	3.16	1.54	1.12
19	0.62	0.56	0.56	0.56	0.54	17	24	4.92	12	3.08	1.48	1.15
20	0.62	0.56	0.56	0.54	0.54	21	24	4.97	11	2.96	1.45	1.12
21	0.62	0.54	0.58	0.52	0.54	21	22	5.03	10	2.92	1.42	1.12
22	0.60	0.94	0.58	0.56	0.54	18	21	5.19	9.38	2.88	1.39	1.09
23	0.60	1.27	0.56	0.56	0.54	17	28	5.47	8.68	2.72	1.39	1.09
24	0.60	0.73	0.54	0.56	0.52	20	26	13	8.12	2.72	1.39	1.09
25	0.60	0.58	0.54	0.56	0.52	31	21	15	7.63	2.60	1.36	1.15
26	0.58	0.56	0.60	0.56	0.52	40	17	22	7.18	2.52	1.33	1.15
27	0.60	0.54	0.64	0.56	0.52	41	14	23	6.72	2.40	1.33	1.12
28	0.62	0.56	0.56	0.56	0.50	39	12	23	6.34	2.36	1.30	1.21
29	0.60	0.56	0.54	0.56	0.48	40	11	28	5.92	2.28		1.30
30	0.58	0.54	0.60	0.56	0.48	42	9.87	34	5.58	2.24		1.30
31		0.58		0.56	0.48		8.89		5.30	2.16		1.27
Total	20.93	18.56	17.62	17.33	16.68	511.34	712.76	295.40	455.85	105.21	45.01	36.70
Mean	0.70	0.60	0.59	0.56	0.54	17.0	23.0	9.85	14.7	3.39	1.61	1.18
Max.	1.51	1.27	0.76	0.73	0.64	42	37	34	32	5.08	2.08	1.45
Min.	0.58	0.54	0.54	0.52	0.48	0.52	8.89	4.92	5.30	2.16	1.30	1.09
Runoff - MCM.	1.808	1.604	1.522	1.497	1.441	44.180	61.583	25.523	39.385	9.090	3.889	3.171

WATER YEAR 1972 : Max. 42 Min. 0.48 Mean 6.17 Annual Runoff 194.693 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep. 30	07.00	5.80	43.00				

MAE KLONG RIVER BASIN

Khwae Noi at Ban Tha Khanun, Kanchanaburi (K13)

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.

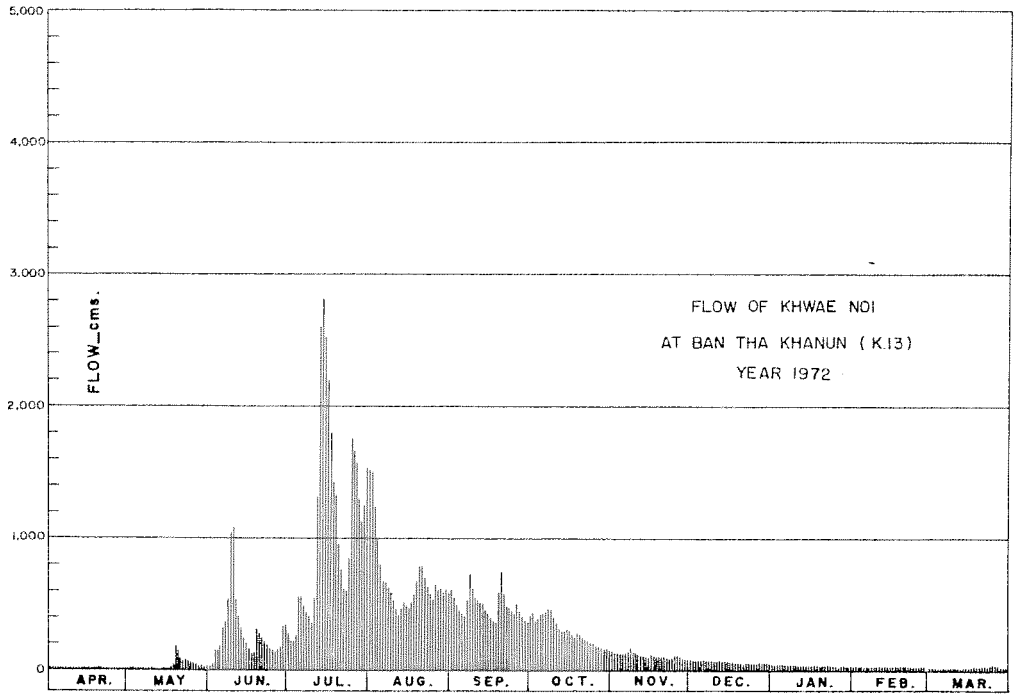
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 789 discharge measurements made during 1966-1970.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	75.68	75.68	76.08	78.71	85.88	81.03	79.80	77.39	76.74	76.25	76.00	75.86
2	.70	.65	.11	.25	.83	80.76	.82	.33	.69	.25	.00	.85
3	.73	.62	77.51	.26	84.34	.33	.46	.28	.64	.24	75.99	.85
4	.79	.61	.53	.72	83.03	.12	.59	.24	.64	.22	.99	.84
5	.84	.61	.58	80.73	81.99	79.83	.82	.21	.63	.22	.97	.84
6	75.83	75.59	79.09	80.72	81.41	79.72	79.84	77.20	76.62	76.21	75.96	75.83
7	.78	.58	.38	.14	.42	80.65	.97	.36	.61	.20	.96	.83
8	.73	.57	79.45	79.89	.21	81.81	80.08	.64	.60	.19	.96	.85
9	.72	.56	83.46	.61	80.95	.29	79.67	.40	.59	.18	.96	.85
10	.72	.55	.73	.40	.47	80.62	.51	.23	.59	.17	.95	.85
11	75.73	75.55	80.56	80.83	80.07	80.57	79.21	77.19	76.57	76.16	75.94	75.84
12	.83	.55	79.77	85.66	79.87	.46	.00	.08	.57	.15	.94	.83
13	.83	.54	.10	90.65	80.25	.42	78.83	.04	.57	.14	.96	.82
14	.77	.54	78.45	91.64	.48	.06	.84	76.99	.50	.13	.96	.81
15	.75	.54	77.95	90.02	.25	79.84	79.00	.99	.47	.12	.95	.80
16	75.75	75.55	77.66	88.96	80.27	79.63	78.87	77.20	76.45	76.11	75.95	75.79
17	.79	.69	.40	87.09	.66	.48	.58	.08	.44	.11	.93	.81
18	.79	76.24	.34	85.20	81.10	.39	.44	.04	.43	.10	.93	.85
19	.72	77.80	78.98	84.92	.80	81.06	.73	.01	.42	.09	.92	76.01
20	.68	.49	.64	82.94	82.15	.96	.65	76.98	.41	.08	.91	75.99
21	75.66	76.73	78.39	81.95	82.15	81.18	78.41	76.96	76.40	76.08	75.90	75.97
22	.65	.53	.14	.01	81.61	80.41	.21	.94	.38	.07	.90	.95
23	.63	.74	77.82	.04	.08	.10	.11	.82	.36	.06	.89	.98
24	.63	.55	.68	83.24	80.78	79.94	77.98	.96	.34	.05	.88	76.09
25	.61	.47	.47	57.10	.56	.82	.87	77.11	.33	.05	.88	75.97
26	75.64	76.29	77.31	86.55	81.31	80.37	77.78	77.04	76.32	76.04	75.87	75.93
27	.67	.11	.50	85.15	.07	79.86	.74	76.95	.31	.03	.87	.89
28	.73	.06	.89	84.65	.16	.66	.64	.86	.31	.03	.86	.84
29	.73	.01	79.19	83.89	80.95	.48	.60	.80	.29	.02		.82
30	.70	.01	.26	85.27	81.08	.36	.51	.76	.28	.02		.80
31		.07		86.02	80.97		.44		.27	.01		.80
Mean	75.73	76.00	78.55	83.49	81.49	80.31	78.79	77.10	76.48	76.12	75.93	75.87
Max.	75.84	77.80	83.73	91.64	85.88	81.96	80.08	77.64	76.74	76.25	76.00	76.09
Min.	75.61	75.54	76.08	78.25	79.87	79.36	77.44	76.76	76.27	76.01	75.86	75.79

WATER YEAR 1972 : Max. 91.64 m. Min. 75.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	11	34	281	1,508	607	422	139	80	45	28	20
2	12	10	36	227	1,498	564	425	133	76	45	28	19
3	13	8.80	151	229	1,200	496	374	128	73	45	27	19
4	16	8.40	153	282	951	467	393	124	73	43	27	18
5	18	8.40	158	559	764	426	425	121	72	43	26	18
6	18	7.60	327	557	668	411	425	120	71	43	26	18
7	15	7.20	363	470	669	546	446	136	71	42	26	18
8	13	6.80	373	435	636	732	461	164	70	41	26	19
9	13	6.40	1,029	395	594	648	446	140	69	41	26	19
10	13	6.00	1,080	366	517	541	381	123	69	40	25	19
11	13	6.00	532	575	460	533	341	119	68	39	24	18
12	18	6.00	418	1,464	432	516	316	108	68	38	24	18
13	18	5.60	328	2,562	485	509	296	104	68	38	24	17
14	15	5.60	250	2,808	519	458	297	99	63	37	26	17
15	14	5.60	195	2,414	485	428	316	99	61	36	25	16
16	14	6.00	166	2,170	488	398	300	120	59	36	25	16
17	16	12	140	1,756	548	377	266	108	59	36	24	16
18	16	45	134	1,372	618	365	249	104	58	35	24	19
19	13	180	314	1,316	730	612	284	101	57	34	24	29
20	11	149	273	935	793	759	274	98	57	34	23	27
21	10	79	243	757	793	631	245	97	56	34	22	26
22	10	65	215	604	709	508	223	95	55	33	22	25
23	9.20	80	182	608	615	464	212	86	53	32	21	27
24	9.20	66	168	989	567	442	198	97	52	31	21	34
25	8.40	61	147	1,758	532	425	187	111	51	31	21	26
26	9.60	48	131	1,642	652	502	178	104	50	31	20	24
27	11	36	150	1,362	613	430	174	94	50	30	20	21
28	13	32	189	1,262	623	402	164	89	50	30	20	18
29	13	29	339	1,110	594	377	160	84	48	29		17
30	12	29	348	1,386	615	361	151	81	48	29		16
31		33		1,536	597		144		47	29		16
Total	395.40	1,059.40	8,566	34,187	21,469	14,935	9,176	3,326	1,902	1,130	677	630
Mean	13.2	34.2	285	1,103	692	498	296	111	61.3	36.4	24.2	20.3
Max.	18	180	1,080	2,808	1,508	759	461	164	80	45	28	34
Min.	8.40	5.60	34	227	432	361	144	81	47	29	20	16
Runoff - MCM.	34.162	91.532	740.102	2,953.757	1,854.922	1,290.384	792.806	287.366	164.333	97.632	58.493	54.432

WATER YEAR 1972 : Max. 2,808 Min. 8.40 Mean 267 Annual Runoff 8,419.922 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.14	06.00	91.84	2,860				

KHWAE NOI RIVER BASIN

Lam Phuchi at Frontier Police Station, Ratchaburi (K17)

Location: Lat. 13°-32'-41" N., Long. 99°-21'-22" E., on left bank opposite to the "Sai Ngam" frontier police station, Tambon Suan Phung, Amphoe Chom Bung, Ratchaburi.

Drainage Area: 1,355 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom 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: Stable, no shifting adjustment for flow computation.

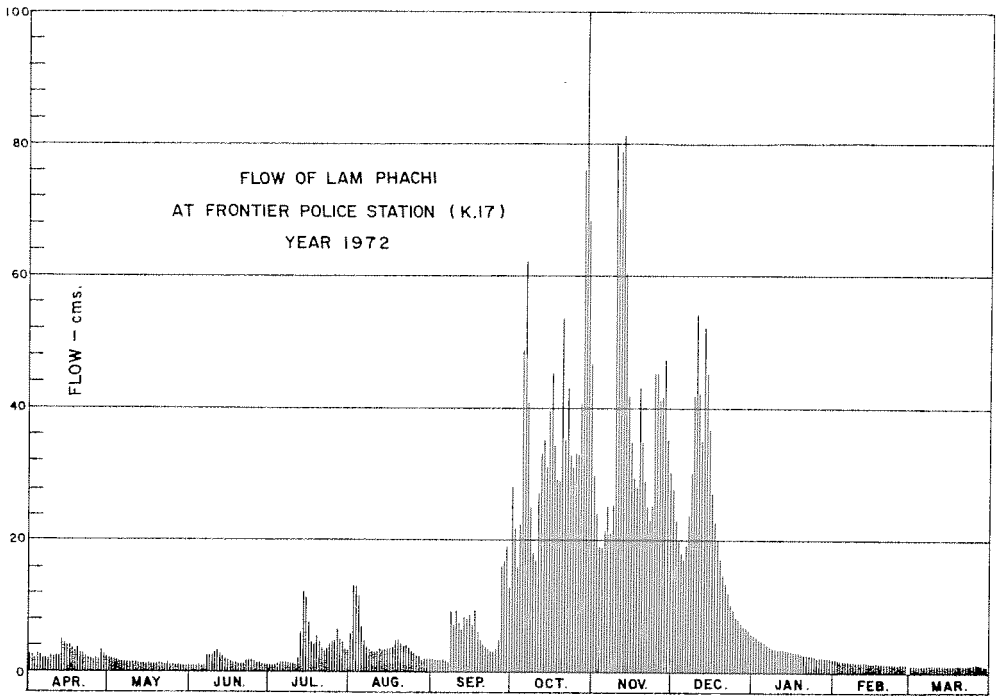
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 288 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.19	0.11	-0.06	-0.01	0.49	0.11	1.32	1.35	1.30	0.45	0.12	-0.01
2	.15	.11	-0.06	-0.02	.84	.11	.15	.16	.18	.43	.12	-0.01
3	.12	.09	-0.05	-0.01	.84	.11	0.95	.03	.08	.40	.11	-0.02
4	.18	.08	-0.04	0.01	.76	.11	1.13	.05	.00	.40	.09	-0.02
5	.15	.05	-0.04	.04	.53	.10	.84	.14	0.99	.37	.08	-0.02
6	0.11	0.04	0.05	0.05	0.39	0.12	2.09	1.22	1.03	0.35	0.08	-0.02
7	.10	.03	.17	.04	.32	.37	1.61	.11	.12	.32	.07	-0.02
8	.12	.01	.18	.03	.29	.66	.24	.23	.37	.31	.06	-0.02
9	.14	.00	.18	.01	.25	.55	.01	2.42	.83	.30	.06	-0.01
10	.14	.00	.22	.00	.24	.66	0.96	.25	.94	.28	.05	0.00
11	0.15	0.00	0.25	0.00	0.25	0.57	1.29	2.41	1.65	0.28	0.05	-0.01
12	.17	-0.01	.21	.14	.30	.51	.46	.44	.49	.28	.05	-0.02
13	.38	-0.02	.17	.48	.27	.62	.50	1.93	.89	.28	.05	-0.02
14	.36	-0.01	.14	.80	.28	.60	.40	.67	.72	.27	.04	-0.02
15	.32	-0.02	.10	.73	.28	.64	.60	.52	.48	.27	.04	-0.03
16	0.33	-0.03	0.08	0.53	0.31	0.56	1.75	1.38	1.29	0.24	0.03	-0.02
17	.28	-0.04	.04	.40	.33	.67	.49	.30	.16	.23	.03	-0.02
18	.24	-0.03	.02	.35	.40	.49	.35	.71	.06	.23	.03	-0.02
19	.28	-0.02	.01	.44	.42	.40	.35	.51	0.97	.21	.03	-0.02
20	.19	-0.00	.00	.37	.37	.36	.91	.33	.90	.21	.02	-0.02
21	0.18	0.02	0.00	0.29	0.33	0.33	1.49	1.22	0.83	0.20	0.01	-0.03
22	.15	.01	.08	.27	.35	.29	.69	.18	.77	.18	.01	-0.03
23	.12	.06	.11	.31	.31	.26	.44	.23	.71	.18	.01	-0.01
24	.10	-0.02	.11	.35	.36	.25	.41	.75	.67	.18	.00	0.00
25	.09	-0.03	.07	.39	.23	.29	.44	.75	.62	.16	.00	0.00
26	0.07	-0.02	0.03	0.41	0.20	0.40	1.44	1.64	0.60	0.15	0.00	0.01
27	.10	-0.03	.01	.50	.19	.94	.64	.67	.56	.15	.00	0.00
28	.26	-0.04	.00	.49	.12	.99	2.35	.79	.53	.14	-0.01	-0.02
29	.19	-0.04	-0.01	.37	.15	1.03	.79	.55	.51	.14		-0.03
30	.14	-0.06	-0.01	.30	.14	0.84	.01	.41	.49	.13		-0.04
31		-0.06		.28	.13		1.60		.47	.13		-0.04
Mean	0.18	0.07	0.06	0.27	0.34	0.46	1.54	1.54	1.07	0.25	0.04	-0.02
Max.	0.38	0.11	0.25	0.80	0.84	1.03	2.79	2.44	1.94	0.45	0.12	0.01
Min.	0.07	-0.06	-0.06	-0.02	0.12	0.10	0.95	1.03	0.47	0.13	-0.01	-0.04

WATER YEAR 1972 : Max. 2.79 m. Min. -0.06 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.52	1.88	0.84	1.14	6.24	1.88	28	29	28	5.60	1.96	1.14
2	2.20	1.88	0.84	1.08	13	1.88	22	23	23	5.28	1.96	1.14
3	1.96	1.74	0.90	1.14	13	1.88	16	19	20	4.80	1.88	1.08
4	2.44	1.68	0.96	1.26	11	1.88	22	19	18	4.80	1.74	1.08
5	2.20	1.50	0.96	1.44	6.88	1.80	49	22	17	4.44	1.68	1.08
6	1.88	1.44	0.90	1.50	4.68	1.96	62	25	19	4.20	1.68	1.08
7	1.80	1.38	2.36	1.44	3.84	1.44	39	21	21	3.84	1.62	1.08
8	1.96	1.26	2.44	1.38	3.50	9.20	25	25	30	3.72	1.56	1.08
9	2.12	1.20	2.44	1.26	3.10	7.20	18	80	49	3.60	1.56	1.14
10	2.12	1.20	2.80	1.20	3.00	9.20	17	70	54	3.40	1.50	1.20
11	2.20	1.20	3.10	1.20	3.10	7.52	27	79	41	3.40	1.50	1.14
12	2.36	1.14	2.70	2.12	3.60	6.52	33	81	35	3.40	1.50	1.08
13	4.56	1.08	2.36	6.08	3.30	8.40	35	54	52	3.40	1.50	1.08
14	4.32	1.14	2.12	12	3.40	8.00	31	42	44	3.30	1.44	1.08
15	3.84	1.08	1.80	11	3.40	8.80	39	36	34	3.30	1.44	1.02
16	3.96	1.02	1.68	7.04	3.72	7.36	45	30	27	3.00	1.38	1.08
17	3.40	0.96	1.44	4.80	3.96	9.40	35	28	23	2.90	1.38	1.08
18	3.00	1.02	1.32	4.20	4.80	6.24	29	43	20	2.90	1.38	1.08
19	3.40	1.08	1.26	5.44	5.12	4.80	29	35	17	2.70	1.38	1.08
20	2.52	1.20	1.20	4.44	4.44	4.32	53	29	15	2.70	1.32	1.08
21	2.44	1.08	1.20	3.50	3.96	3.96	35	25	13	2.60	1.26	1.02
22	2.20	1.14	1.68	3.30	4.20	3.50	43	23	12	2.44	1.26	1.02
23	1.96	1.20	1.88	3.72	3.72	3.20	33	25	10	2.44	1.26	1.14
24	1.80	1.08	1.88	4.20	3.20	3.10	31	45	9.40	2.44	1.20	1.20
25	1.74	1.02	1.62	4.68	2.90	3.50	33	45	8.40	2.28	1.20	1.20
26	1.62	1.08	1.38	4.96	2.60	4.80	33	41	8.00	2.20	1.20	1.26
27	1.80	1.02	1.26	6.40	2.52	16	41	42	7.36	2.20	1.20	1.20
28	3.20	0.96	1.20	4.68	1.96	17	76	47	6.88	2.12	1.14	1.08
29	2.52	0.96	1.14	4.44	2.20	19	102	37	6.56	2.12		1.02
30	2.12	0.84	1.14	3.60	2.12	13	58	31	6.24	2.04		0.96
31		0.84		3.40	2.04		39		5.92	2.04		0.96
Total	76.16	37.30	48.80	118.04	138.50	199.78	1,178	1,151	680.76	99.60	41.08	33.96
Mean	2.54	1.20	1.63	3.81	4.47	6.66	38.0	38.3	22.0	3.21	1.47	1.09
Max.	4.56	1.88	3.10	12	13	19	102	81	54	5.60	1.96	1.26
Min.	1.62	0.84	0.84	1.08	1.96	1.80	16	19	5.92	2.04	1.14	0.96
Runoff - MCM.	6.550	3.208	4.197	10.151	11.911	17.181	101.308	98.212	58.545	8.566	3.533	2.920

WATER YEAR 1972 : Max. 102 Min. 0.84 Mean 10.4 Annual Runoff 326.282 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.28	22.00	3.64	165				

MAE KLONG RIVER BASIN

Khwae Yai at Ban Ong Kha, Kanchanaburi (K19)

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 gage line.
Elevation: + 14.385 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: 1966-1972

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.

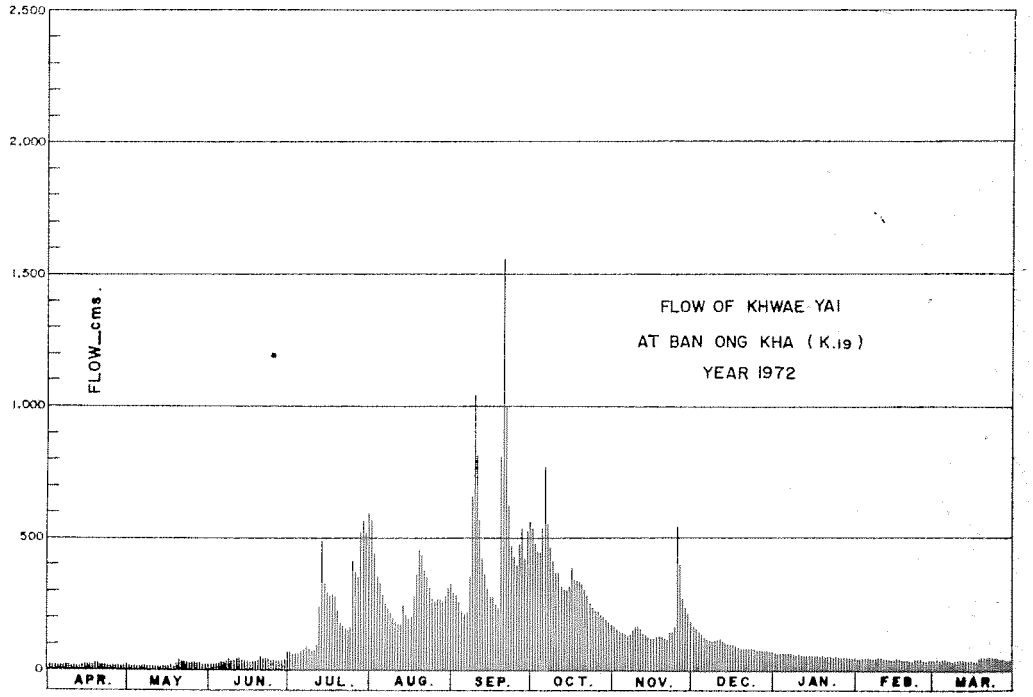
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 845 discharge measurements made during 1966-1970.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.35	1.32	1.36	2.20	6.00	4.34	5.94	3.19	3.22	2.14	1.80	1.61
2	.34	.31	.37	.09	5.30	.28	.56	.12	.09	.13	.79	.61
3	.34	.29	.40	.06	4.79	.10	.32	.05	2.99	.11	.79	.61
4	.33	.28	.44	.09	.62	3.84	.24	2.99	.90	.10	.78	.60
5	.35	.28	.57	.28	.29	.70	.64	.94	.82	.08	.78	.60
6	1.37	1.28	1.54	2.22	4.05	3.58	7.04	2.89	2.76	2.07	1.77	1.59
7	.39	.25	.61	.47	3.96	4.00	5.82	.91	.71	.06	.76	.59
8	.34	.24	.72	.35	.35	6.91	.42	3.10	.68	.05	.76	.59
9	.31	.23	.65	.24	.53	8.31	.13	.19	.71	.03	.75	.60
10	.31	.21	.67	.23	.42	6.64	4.83	.19	.75	.03	.73	.61
11	1.32	1.21	1.85	2.46	3.35	5.52	4.77	3.11	2.75	2.01	1.73	1.60
12	.31	.20	.77	3.56	.34	.68	.48	2.95	.67	2.00	.73	.60
13	.40	.20	.68	5.58	.96	4.77	.41	.89	.60	1.99	.73	.60
14	.51	.20	.67	4.56	.65	.45	.41	.82	.56	.98	.72	.59
15	.50	.19	.63	.50	.52	.20	.53	.77	.55	.97	.71	.59
16	1.46	1.19	1.55	4.24	3.58	4.20	4.93	2.78	2.50	1.96	1.70	1.58
17	.43	.22	.55	.28	4.40	3.95	.65	.85	.45	.94	1.70	.59
18	.53	.30	.56	.28	.79	.81	.65	.85	.42	.93	.69	.72
19	.44	.43	.76	3.89	5.45	7.89	.61	.83	.39	.92	.68	.81
20	.38	.70	.97	.47	.28	10.42	.54	.74	.37	.91	.67	.85
21	1.34	1.61	1.84	3.33	4.93	7.23	4.36	2.76	2.34	1.90	1.66	1.83
22	.32	.57	.84	.21	.73	6.23	.17	3.03	.31	.88	.66	.82
23	.32	.53	.76	.08	.43	5.47	3.99	.07	.29	.87	.65	.81
24	.31	.51	.67	.28	.22	.20	.85	.22	.28	.86	.64	.79
25	.31	.49	.62	5.13	.14	.03	.77	5.90	.26	.85	.63	.73
26	1.30	1.53	1.58	4.89	4.23	5.51	3.77	4.99	2.24	1.84	1.63	1.66
27	.32	.45	.60	.76	.20	.85	.65	.16	.22	.84	.63	.64
28	.30	.40	.58	6.00	.11	.06	.57	3.91	.20	.83	.62	.63
29	.37	.37	.74	.00	.28	.80	.50	.69	.18	.82		.62
30	.36	.35	2.18	5.78	.39	6.00	.38	.45	.17	.82		.60
31		.37		6.21	.63		.28		.16	.81		.59
Mean	1.36	1.34	1.60	3.70	4.30	5.37	4.62	3.24	2.53	1.96	1.71	1.65
Max.	1.53	1.70	2.18	6.21	6.00	10.42	7.04	5.90	3.22	2.14	1.80	1.85
Min.	1.30	1.19	1.36	2.06	3.34	3.58	3.28	2.74	2.16	1.81	1.62	1.59

WATER YEAR 1972 : Max. 10.42 m. Min. 1.19 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	17	20	72	561	294	550	161	164	68	46	35
2	18	17	20	64	440	285	484	154	151	67	45	35
3	18	16	22	62	359	262	443	147	141	66	45	35
4	18	15	24	64	334	231	430	141	132	65	45	34
5	19	15	32	78	287	214	498	136	124	64	45	34
6	20	15	30	73	256	202	763	131	118	63	44	33
7	21	14	35	92	245	250	529	133	114	62	44	33
8	18	14	41	82	221	737	460	152	111	61	44	33
9	17	13	37	75	195	1,041	413	161	114	60	43	34
10	17	12	38	74	184	683	365	161	117	60	42	35
11	17	12	49	91	177	477	356	153	117	59	42	34
12	17	12	44	199	176	405	313	137	110	58	42	34
13	22	12	39	488	245	356	303	131	104	57	42	34
14	29	12	38	325	208	309	303	124	100	57	41	33
15	28	12	36	316	194	275	320	119	99	56	41	33
16	26	12	31	280	202	275	382	120	95	56	40	33
17	24	13	31	285	302	244	338	127	90	54	40	33
18	30	16	32	285	359	227	338	127	88	54	39	41
19	24	24	44	237	465	945	332	125	85	53	39	47
20	21	40	56	189	437	1,550	322	117	84	53	38	49
21	18	35	48	175	382	802	296	118	82	52	38	48
22	17	32	48	163	350	603	271	145	80	51	38	47
23	17	30	44	150	306	469	249	149	78	50	37	47
24	17	29	38	170	278	424	232	164	78	50	36	45
25	17	27	35	413	267	397	223	543	76	49	36	42
26	16	30	33	374	279	476	223	390	75	48	36	38
27	17	25	34	355	275	534	208	270	73	48	36	36
28	16	22	33	561	263	402	200	231	72	48	35	36
29	20	20	42	561	285	525	192	213	72	47		35
30	20	19	71	522	301	561	180	187	70	47		34
31		20		599	335		170		69	47		33
Total	598	602	1,125	7,474	9,168	14,455	10,686	5,167	3,082	1,730	1,139	1,153
Mean	19.9	19.4	37.5	241	296	482	345	172	99.4	55.8	40.7	37.2
Max.	30	40	71	599	561	1,550	763	543	164	68	46	49
Min.	16	12	20	62	176	202	170	117	69	47	35	33
Runoff - mcm.	51.667	52.013	97.200	645.754	792.115	1,248.912	923.270	446.429	266.285	149.472	98.410	99.619

WATER YEAR 1972 : Max. 1,550 Min. 12 Mean 154 Annual Runoff 4,871.146 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	01.00	13.61	2,770				

MAE KLONG RIVER BASIN

Khwae Yai at Khao Wang Masang, Kanchanaburi (K20)

Location: Lat. 14°-20'-52" N., Long 99°-10'-45" E., on right bank about 500 meters upstream from Ban Kaeng Khao, 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.

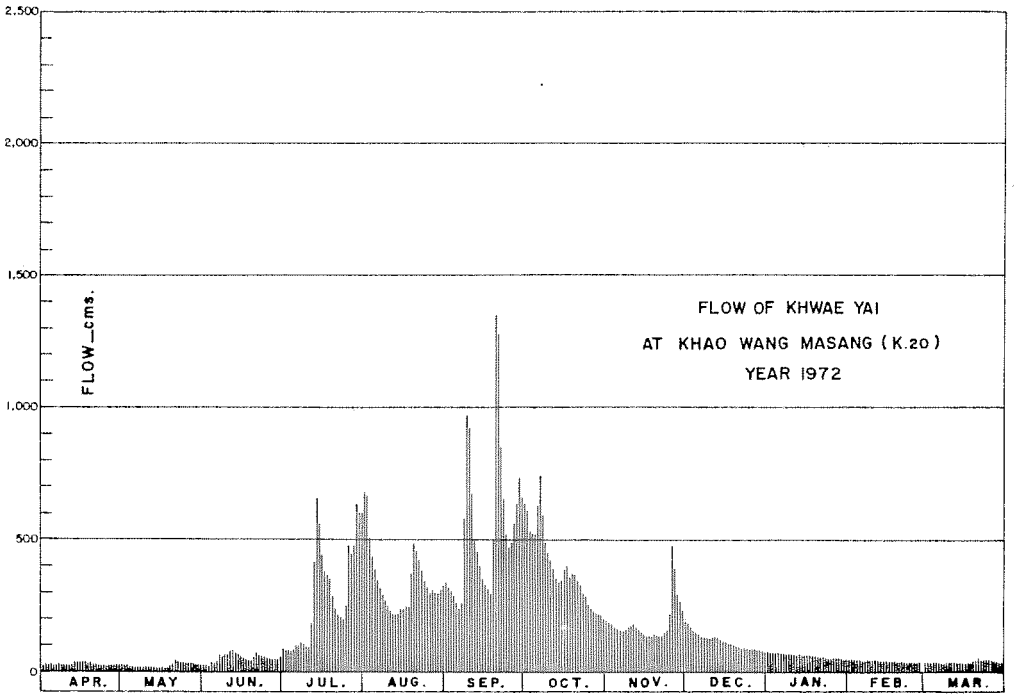
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 205 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.40	45.39	45.40	46.26	50.91	48.80	50.68	47.40	47.45	46.13	45.76	45.55
2	.41	.35	.40	.25	.55	.54	.48	.32	.26	.12	.75	.55
3	.40	.33	.44	.17	49.91	.45	.03	.24	.14	.10	.75	.54
4	.44	.32	.54	.14	.44	.22	.02	.18	.04	.09	.74	.54
5	.37	.30	.53	.26	.14	.01	.03	.11	46.95	.07	.73	.53
6	45.37	45.29	45.68	46.41	48.77	47.88	50.64	47.05	46.87	46.05	45.73	45.53
7	.44	.30	.95	.38	.55	48.15	51.22	.03	.81	.04	.72	.53
8	.41	.29	.87	.59	.31	50.56	50.31	.09	.77	.03	.72	.52
9	.39	.27	46.03	.47	.13	52.67	49.81	.22	.75	.02	.71	.54
10	.36	.26	.50	.35	47.94	.42	.49	.27	.79	.01	.70	.55
11	45.36	45.25	46.16	46.35	47.76	50.62	49.29	47.31	46.80	46.00	45.69	45.56
12	.40	.25	.16	.97	.69	49.75	.04	.14	.77	45.99	.69	.55
13	.61	.24	.06	49.30	.67	.57	48.82	.04	.70	.98	.68	.53
14	.49	.23	45.94	50.78	.77	.24	.73	46.97	.63	.96	.67	.51
15	.57	.23	.87	.03	.92	48.86	.83	.89	.60	.94	.67	.50
16	45.60	45.23	45.79	49.43	47.83	48.65	49.08	46.85	46.58	45.93	45.66	45.51
17	.53	.23	.73	.06	48.03	.55	.21	.88	.51	.92	.65	.51
18	.46	.27	.69	48.97	.79	.35	48.90	.85	.47	.90	.65	.53
19	.53	.41	.75	.82	49.25	49.82	49.04	.89	.43	.90	.64	.58
20	.46	.61	.95	.29	.79	54.37	48.98	.86	.40	.89	.63	.71
21	45.41	45.73	46.05	47.89	49.59	53.74	48.79	46.80	46.38	45.87	45.62	45.78
22	.37	.65	45.96	.71	.26	51.48	.61	.88	.34	.87	.61	.69
23	.35	.62	.93	.57	.04	50.54	.37	47.06	.32	.85	.60	.69
24	.33	.57	.85	.49	48.72	49.99	.31	.11	.29	.84	.59	.71
25	.33	.55	.77	48.09	.52	.69	.03	.91	.27	.83	.58	.74
26	45.37	45.52	45.72	49.77	48.39	49.85	47.88	49.72	46.24	45.82	45.57	45.69
27	.34	.55	.69	.54	.50	50.45	.77	48.81	.22	.81	.57	.65
28	.36	.48	.76	.80	.42	.88	.73	.21	.20	.80	.56	.65
29	.45	.45	.74	50.69	.39	51.24	.71	47.99	.19	.79		.60
30	.38	.44	.91	.49	.56	50.80	.64	.72	.17	.78		.57
31		.38		.54	.71		.51		.15	.77		.55
Mean	44.42	45.39	45.83	48.09	49.72	50.00	49.06	47.32	46.59	45.93	45.66	45.58
Max.	45.61	45.73	46.50	50.78	50.91	54.37	51.22	49.72	47.45	46.13	45.76	45.78
Min.	45.33	45.23	45.40	46.14	47.67	47.88	47.51	46.80	46.15	45.77	45.56	45.50

WATER YEAR : Max. 54.37 m. Min. 45.23 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	24	25	88	679	346	635	189	194	77	48	34
2	26	22	25	87	612	314	599	181	175	77	47	34
3	25	21	27	81	503	303	522	173	164	75	47	33
4	27	20	33	78	433	276	520	167	155	74	47	33
5	23	19	33	88	391	253	522	161	146	73	46	33
6	23	18	43	100	342	239	628	155	139	71	46	33
7	27	19	63	97	315	268	742	154	134	70	45	33
8	26	18	57	114	286	614	569	159	130	69	45	32
9	24	17	69	105	266	970	487	171	128	69	45	33
10	23	17	107	95	245	925	440	176	132	68	44	34
11	23	16	80	95	226	625	412	180	133	67	43	35
12	25	16	80	148	218	478	377	164	130	66	43	34
13	38	16	72	413	216	451	349	155	124	65	43	33
14	30	15	62	654	227	405	337	148	118	64	42	32
15	35	15	57	522	243	354	350	141	115	62	42	31
16	37	15	50	431	233	327	382	137	113	61	41	32
17	33	15	46	380	255	315	400	140	108	61	40	32
18	29	17	43	368	345	291	359	137	105	59	40	33
19	33	26	47	349	406	469	377	141	101	59	40	36
20	29	38	63	284	484	*1,350	369	138	99	58	39	45
21	26	46	71	240	454	*1,260	345	133	97	57	38	50
22	23	40	64	220	407	780	322	140	94	57	38	43
23	22	38	61	206	377	610	293	156	93	55	37	43
24	21	35	55	198	336	515	286	161	90	54	36	45
25	21	34	49	262	311	469	255	242	89	53	36	47
26	23	32	45	481	296	493	239	474	86	53	35	43
27	21	34	43	447	309	594	227	347	85	52	35	40
28	23	30	48	486	299	673	222	275	83	51	35	40
29	28	28	47	637	296	* 740	220	251	82	50		37
30	24	27	60	601	316	658	213	221	81	50		35
31		24		610	334		200		79	49		34
Total	793	752	1,625	8,965	10,660	16,385	12,198	5,567	3,602	1,926	1,163	1,132
Mean	26.4	24.2	54.2	289	344	546	393	18.5	116	62.1	41.5	36.5
Max.	38	46	107	654	679	1,350	742	474	194	77	48	50
Min.	21	15	25	78	216	239	200	133	79	49	35	31
Runoff - MCM.	68.515	64.973	140.400	774.576	921.024	1,413.664	1,053.907	480.988	311.212	166.406	100.483	97.804

WATER YEAR 1972 : Max. 1,350 Min. 15 Mean 177 Annual Runoff 5,595.952 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.20	19.00	56.11	2,251				

KHWAE NOI RIVER BASIN

Huai Mae Nam Noi at Tambon Tha Thung Na, Kanchanaburi (K22A)

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 on September - March 24 time daily readings at 01.00 - 24.00 hours on April - August.

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

Period of Available Gage Records: 1969 to date.

Rating Operation:

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

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

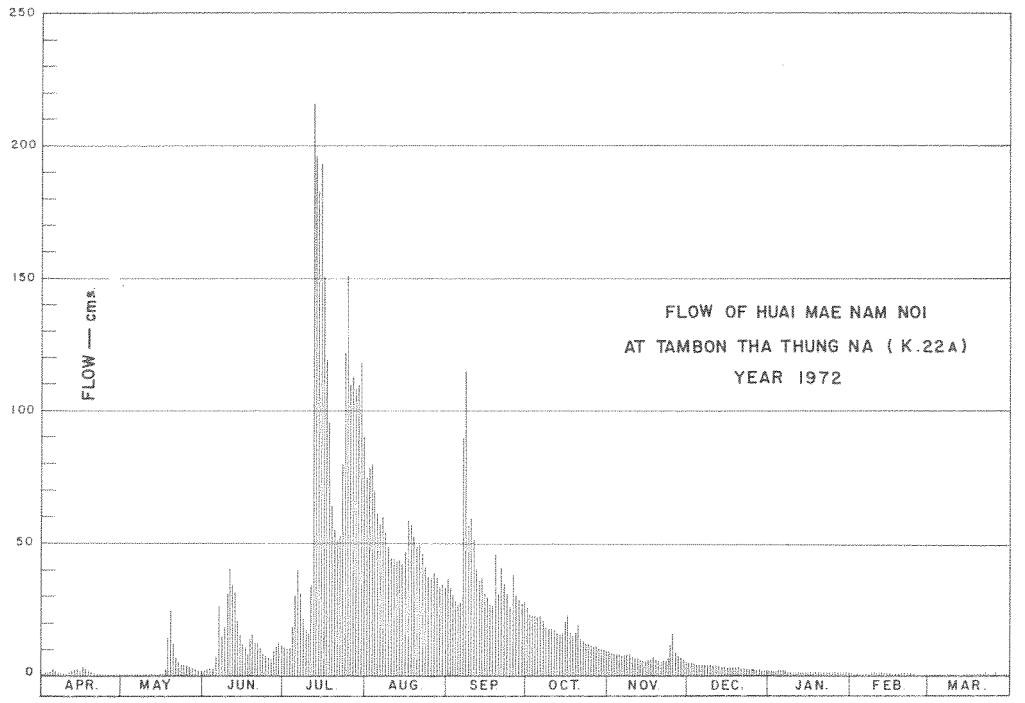
Overbank Flow Conditions: Overbank flow starts at elevation + 73.40 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 158 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	67.15	67.14	67.26	67.73	69.78	68.72	68.56	67.77	67.59	67.39	67.30	67.25
2	.18	.14	.28	.71	.85	.59	.42	.75	.57	.38	.30	.24
3	.19	.13	.33	.75	.89	.50	.39	.73	.55	.38	.30	.24
4	.27	.13	.28	68.05	.64	.45	.43	.74	.54	.37	.30	.24
5	.19	.13	.58	.45	.40	.41	.35	.72	.53	.37	.29	.24
6	67.18	67.13	68.38	68.81	69.29	68.44	68.41	67.71	67.53	67.36	67.29	67.24
7	.17	.12	67.94	.62	.39	70.13	.31	.73	.53	.35	.29	.24
8	.18	.12	68.06	.25	.23	.70	.24	.73	.54	.34	.29	.24
9	.16	.13	70.13	.07	.08	69.29	.20	.74	.54	.34	.29	.24
10	.15	.14	68.81	67.98	68.95	.39	.19	.66	.52	.34	.29	.23
11	67.15	67.15	68.66	68.61	68.98	69.07	68.18	67.64	67.50	67.34	67.29	67.23
12	.26	.16	.54	72.66	.90	68.92	.17	.62	.49	.34	.29	.23
13	.30	.16	.23	.46	.95	.80	.12	.61	.48	.33	.29	.22
14	.26	.15	67.98	71.89	.89	.83	.08	.60	.47	.33	.29	.22
15	.21	.14	.81	72.25	.89	.67	.21	.62	.47	.32	.28	.22
16	67.34	67.16	67.77	71.66	69.05	68.62	68.42	67.64	64.46	67.32	67.28	67.25
17	.27	.25	.63	70.80	.37	.55	.17	.61	.46	.32	.28	.26
18	.21	.95	.90	.03	.30	.50	.11	.69	.45	.32	.28	.26
19	.18	68.33	.98	69.49	.19	69.00	.07	.60	.45	.31	.28	.25
20	.16	67.82	.79	.25	.07	68.68	.23	.60	.44	.31	.28	.25
21	67.15	67.55	67.83	69.14	69.12	68.91	68.04	67.59	67.44	67.30	67.28	67.24
22	.15	.45	.70	.18	.01	.84	.04	.61	.43	.30	.28	.32
23	.14	.40	.62	.79	68.88	.69	67.98	.57	.42	.30	.28	.22
24	.14	.39	.60	70.70	.77	.64	.94	.87	.42	.30	.27	.21
25	.14	.36	.54	71.47	.72	.76	.92	68.11	.41	.30	.26	.20
26	67.14	67.32	67.52	70.60	68.74	68.84	67.89	67.84	67.41	67.29	67.26	67.32
27	.16	.30	.68	.67	.83	.69	.87	.72	.40	.29	.26	.27
28	.16	.27	.76	.55	.72	.62	.85	.66	.40	.30	.25	.26
29	.16	.25	.84	.61	.63	.55	.82	.63	.39	.30		.25
30	.14	.25	.81	.77	.68	.57	.80	.60	.39	.30		.24
31		.24		.21	.61		.79		.39	.30		.24
Mean	67.19	67.33	67.97	70.00	69.08	68.84	68.14	67.69	67.47	67.32	67.28	67.24
Max.	67.34	68.33	70.13	72.66	69.89	70.70	68.56	68.11	67.59	67.39	67.30	67.32
Min.	67.14	67.12	67.26	67.71	68.61	68.41	67.79	67.57	67.39	67.29	67.25	67.20

WATER YEAR 1972 : Max. 72.66 m. Min. 67.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.65	0.52	2.20	11	75	37	27	9.13	5.73	2.56	1.30	0.65
2	1.04	0.52	2.50	10	78	33	23	8.75	5.39	2.42	1.30	0.52
3	1.17	0.39	3.25	11	80	30	23	8.37	5.08	2.42	1.30	0.52
4	2.35	0.39	2.50	18	70	28	23	8.56	4.88	2.48	1.30	0.52
5	1.17	0.39	7.60	28	61	27	22	8.18	4.71	2.28	1.17	0.52
6	1.04	0.39	26	40	57	28	23	7.99	4.71	2.14	1.17	0.52
7	0.91	0.26	15	34	60	90	21	8.37	4.71	2.00	1.17	0.52
8	1.04	0.26	18	23	54	115	19	8.37	4.88	1.86	1.17	0.52
9	0.78	0.39	90	18	49	57	18	8.56	4.88	1.86	1.17	0.52
10	0.65	0.52	40	16	44	60	18	7.04	4.52	1.86	1.17	0.39
11	0.65	0.65	35	33	45	49	18	6.66	4.20	1.86	1.17	0.39
12	2.20	0.78	31	216	43	41	17	6.28	4.05	1.86	1.17	0.39
13	2.80	0.78	22	205	44	36	16	6.09	3.90	1.72	1.17	0.26
14	2.20	0.65	16	173	42	37	15	5.90	3.75	1.72	1.17	0.26
15	1.45	0.52	12	193	42	31	18	6.28	3.75	1.58	1.04	0.26
16	3.40	0.78	11	161	48	30	23	6.66	3.60	1.58	1.04	0.65
17	2.35	2.05	8.60	119	59	27	17	6.09	3.60	1.58	1.04	0.78
18	1.45	15	14	85	57	26	16	7.61	3.45	1.58	1.04	0.78
19	1.04	25	16	64	53	46	15	5.90	3.45	1.44	1.04	0.65
20	0.78	12	12	55	49	31	19	5.90	3.30	1.44	1.04	0.65
21	0.65	7.00	13	51	50	41	14	5.73	3.30	1.30	1.04	0.52
22	0.65	5.15	10	53	46	38	14	6.09	3.15	1.30	1.04	1.58
23	0.52	4.30	8.40	76	42	31	13	5.39	3.00	1.30	1.04	0.62
24	0.52	4.15	8.00	115	38	30	12	11	3.00	1.30	0.91	0.13
25	0.52	3.70	6.80	151	37	34	12	16	2.85	1.30	0.78	0.00
26	0.52	3.10	6.40	110	37	38	11	10	2.85	1.17	0.78	1.58
27	0.78	2.80	9.60	113	40	31	11	8.18	2.70	1.17	0.78	0.91
28	0.78	2.35	11	108	37	29	11	7.04	2.70	1.30	0.65	0.78
29	0.78	2.05	13	110	34	27	10	6.47	2.56	1.30		0.65
30	0.52	2.05	12	118	35	28	9.70	5.90	2.56	1.30		0.52
31		1.90		93	33		9.51		2.56	1.30		0.52
Total	35.36	100.79	482.85	2,611	1,539	1,186	518.21	228.49	117.74	52.08	30.16	18.08
Mean	1.18	3.25	16.1	84.2	49.6	39.5	16.7	7.61	3.80	1.69	1.08	0.58
Max.	3.40	25	90	216	80	115	27	16	5.73	2.56	1.30	1.58
Min.	0.52	0.26	2.20	10	33	26	9.51	5.39	2.56	1.17	0.65	0.00
Runoff - mcm.	3.055	8.708	41.718	225.590	132.970	102.470	44.773	19.741	10.173	4.500	2.606	1.562

WATER YEAR 1971 : Max. 216 Min. 0.00 Mean 19.0 Annual Runoff 597.867 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
July 12	18.00	75.21	390				

KHWAE YAI RIVER BASIN

Lam Taphoen at Ban Wang Yai, Kanchanaburi (K27)

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: Fairly stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

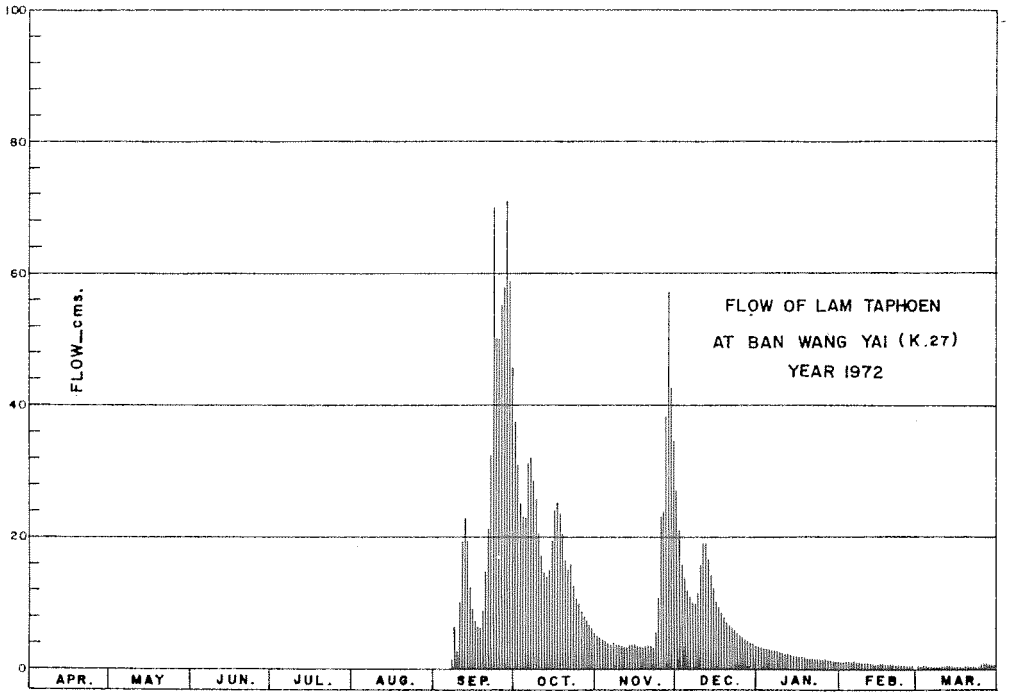
General Description: Records fair. Stage-discharge relation defined by 123 discharge measurements made in 1972.

Remarks: No flow on period April 1 - September 6, 1973.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							4.99	2.01	4.30	1.70	1.19	0.94
2							.63	1.94	3.83	.68	.18	.94
3							.27	.87	.50	.65	.17	.93
4							.13	.83	.21	.63	.16	.93
5							.07	.78	2.99	.61	.15	.92
6							4.67	1.75	2.83	1.59	1.15	0.92
7						1.20	.70	.82	.75	.57	.14	.91
8						2.19	.50	.76	.74	.54	.12	.91
9						1.54	.18	.78	3.01	.51	.10	.90
10						2.93	3.84	.70	.42	.49	.10	.91
11						3.74	3.53	1.67	3.73	1.47	1.09	0.90
12						4.11	.31	.72	.79	.45	.08	.90
13						3.80	.21	.73	.57	.43	.07	.90
14						.16	.32	.77	.24	.40	.07	.89
15						.65	.82	.77	2.98	.39	.06	.89
16						2.37	4.18	1.71	2.80	1.38	1.05	0.89
17						.24	.22	.70	.65	.36	.04	.91
18						.17	.20	.69	.52	.35	.03	.91
19						.57	3.95	.71	.41	.34	.02	.92
20						3.30	.59	.70	.31	.32	.02	.93
21						4.00	3.38	1.69	2.23	1.31	1.01	0.94
22						.74	.46	.88	.16	.29	.01	.94
23						6.00	.22	2.07	.10	.28	.00	.92
24						5.46	2.89	.68	.05	.27	0.99	.93
25						.44	.69	4.06	1.98	.27	.98	1.03
26						5.66	2.56	4.17	1.94	1.25	0.96	1.09
27						.69	.47	5.02	.89	.24	.96	.04
28						6.02	.36	.65	.84	.23	.95	.01
29						5.68	.26	.24	.80	.22		0.99
30						.38	.17	4.77	.77	.20		.97
31							.08		.73	.19		.95
Mean							3.57	2.42	2.71	1.41	1.07	0.94
Max.						6.02	4.99	5.65	4.30	1.70	1.19	1.09
Min.						1.20	2.08	1.67	1.73	1.19	0.95	0.89

WATER YEAR 1972 : Max. 6.02 m. Min. 0.89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							38	5.16	26	3.40	1.07	0.32
2							31	4.74	20	3.30	1.04	0.32
3							25	4.32	16	3.15	1.01	0.29
4							23	4.08	14	3.05	0.98	0.29
5							23	3.80	12	2.95	0.95	0.26
6							31	3.65	11	2.85	0.95	0.26
7	No Flow on period					1.10	32	4.02	10	2.75	0.92	0.23
8						6.24	29	3.70	10	2.60	0.86	0.23
9	April 1 - Sept. 6					2.60	24	3.80	12	2.45	0.80	0.20
10						11	20	3.40	16	2.35	0.80	0.23
11						19	17	3.25	19	2.25	0.77	0.20
12						23	15	3.50	19	2.15	0.74	0.20
13						19	14	3.55	17	2.05	0.71	0.20
14						13	15	3.75	14	1.90	0.71	0.18
15						9.45	20	3.75	12	1.86	0.68	0.18
16						7.49	24	3.45	10	1.82	0.65	0.18
17						6.58	25	3.40	9.45	1.74	0.62	0.23
18						6.12	24	3.35	8.54	1.70	0.59	0.23
19						8.89	21	3.45	7.77	1.66	0.56	0.26
20						15	17	3.40	7.07	1.58	0.56	0.29
21						22	15	3.35	6.51	1.54	0.53	0.32
22						33	16	4.38	6.06	1.46	0.53	0.32
23						70	14	5.52	5.70	1.42	0.50	0.26
24						50	11	9.66	5.40	1.38	0.47	0.29
25						50	9.73	23	4.98	1.38	0.44	0.59
26						57	8.82	24	4.74	1.30	0.38	0.77
27						58	8.19	38	4.44	1.26	0.38	0.62
28						71	7.42	57	4.14	1.22	0.35	0.53
29						58	6.72	44	3.90	1.18		0.47
30						48	6.12	33	3.75	1.10		0.41
31							5.58		3.55	1.07		0.35
Total						665.47	576.58	317.43	324.00	61.87	19.55	9.71
Mean						22.2	18.6	10.6	10.4	1.99	0.70	0.31
Max.						71	38	57	26	3.40	1.07	0.77
Min.						1.10	5.58	3.25	3.55	1.07	0.35	0.18
Runoff - mcm.						57.497	49.816	27.426	27.994	5.345	1.689	0.839

WATER YEAR 1972 : Max. 71 Min. 0.18 Mean 5.41 Annual Runoff 170.606 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sep.28	06.00	6.12	75				

PHET RIVER BASIN

Phet River at Ban Rai Phaniat, Phetchaburi (B1A)

Location: Lat. 13°-04'-22" N., Long. 99°-56'-37" E., next to Muang Themon 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. - R.I.D. 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.

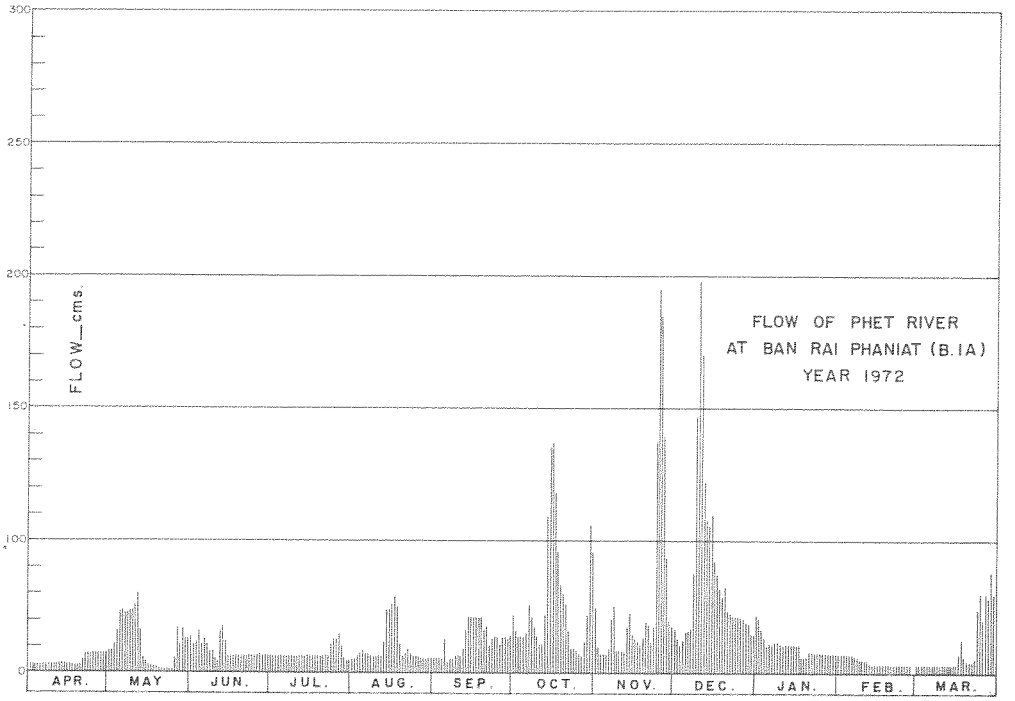
Overbank Flow Conditions: Overbank flow starts at elevation + 5.08 m. (M.S.L.) and is included.

General Description: Records fair. Stage-discharge relation defined by 106 discharge measurements made during 1967-1970. Flow regulated by Kaeng Krachan Reservoir and Phet Diversion Dam at above gage site for irrigation about 27,800 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.99	1.36	1.63	1.24	1.15	1.19	2.60	2.11	1.78	2.01	1.30	1.06
2	1.00	.36	.48	.23	.15	.19	1.74	1.44	.55	1.97	.30	.06
3	.00	.49	.54	.21	.28	.19	.66	.31	.50	.76	.29	.05
4	.00	.75	.73	.21	.31	.34	.66	.30	.59	.57	.28	.04
5	.00	2.02	.48	.22	.34	.60	.66	.30	.74	.44	.28	.04
6	1.01	2.06	1.60	1.22	1.30	1.11	1.72	1.43	1.73	1.52	1.27	1.03
7	.00	.05	.48	.22	.29	.19	2.14	.97	.79	.51	.23	.03
8	.02	.05	.38	.22	.25	.18	1.96	2.13	2.55	.53	.22	.03
9	.02	.06	.33	.22	.22	.18	.84	1.35	4.04	.52	.19	.02
10	.02	.07	.15	.22	.24	.18	.59	.35	5.10	.51	.15	.02
11	1.02	2.14	1.10	1.22	1.24	1.21	1.47	1.34	4.52	1.50	1.15	1.02
12	.03	.29	.73	.22	.23	.40	.49	.33	3.46	.50	.14	.02
13	.06	1.72	.82	.22	.53	.76	2.00	.81	.10	.49	.07	.01
14	.06	.16	.54	.22	2.08	.64	5.13	2.07	.07	.48	.06	.01
15	.03	.10	.25	.24	.08	.94	.76	1.71	.17	.47	.05	.02
16	1.02	1.00	1.23	1.23	2.13	1.95	3.82	1.59	2.68	1.48	1.05	1.03
17	.01	0.99	.23	.24	.27	.96	.35	.52	.52	.47	.04	.32
18	0.99	.99	.24	.24	.12	.97	2.79	.47	.36	.21	.05	.57
19	1.00	.95	.24	.24	1.49	.97	.39	.64	.25	.20	.04	.22
20	.00	.91	.26	.22	.26	.78	.29	.49	.38	.24	.04	.10
21	1.14	0.87	1.25	1.22	1.28	1.77	2.15	1.88	2.09	1.36	1.06	1.10
22	.29	.88	.24	.23	.41	.44	1.76	.55	.02	.34	.06	.09
23	.30	.87	.26	.23	.29	.58	.38	.83	1.99	.32	.05	.18
24	.29	.87	.25	.48	.26	.62	.40	3.82	.98	.32	.04	2.06
25	.30	.87	.24	.58	.26	.62	.37	5.03	.98	.32	.05	.30
26	1.30	1.14	1.26	1.57	1.24	1.59	1.27	4.84	1.95	1.32	1.06	1.92
27	.30	.78	.27	.67	.20	.62	.26	3.84	.95	.32	.06	2.30
28	.30	.67	.26	.48	.19	.65	.52	2.72	.92	.31	.06	.23
29	.30	.48	.25	.20	.19	.59	2.01	1.92	.86	.30		.56
30	.30	.58	.24	.12	.19	.66	.05	.82	.68	.30		.32
31		.61		.13	.18		.66		.68	.30		.59
Mean	1.10	1.46	1.36	1.27	1.41	1.54	2.07	2.04	2.39	1.45	1.13	1.40
Max.	1.30	2.29	1.82	1.67	2.27	1.97	3.82	5.03	5.10	2.01	1.30	2.59
Min.	0.99	0.87	1.10	1.12	1.15	1.18	1.26	1.30	1.50	1.20	1.04	1.01

WATER YEAR 1972 : Max. 5.10 m. Min. 0.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.87	8.56	14	6.64	5.20	5.84	22	25	17	22	7.60	3.84
2	3.00	8.56	11	6.48	5.20	5.84	16	10	12	21	7.60	3.84
3	3.00	11	12	6.16	6.96	5.84	14	7.76	11	16	7.44	3.70
4	3.00	16	16	6.16	7.76	8.24	14	7.60	13	13	7.28	3.56
5	3.00	23	11	6.32	8.24	13	14	7.60	16	10	7.28	3.56
6	3.14	24	13	6.32	7.60	4.56	16	9.80	16	12	7.12	3.42
7	3.00	23	11	6.32	7.44	5.84	26	21	17	11	6.48	3.42
8	3.28	23	8.88	6.32	6.80	5.68	21	26	38	12	6.32	3.42
9	3.28	24	8.08	6.48	6.32	5.68	18	8.40	97	12	5.84	3.28
10	3.28	24	5.20	6.32	6.64	5.68	13	8.40	148	11	5.20	3.28
11	3.28	26	4.40	6.32	6.64	6.16	11	8.24	120	11	5.20	3.28
12	3.42	30	16	6.32	6.48	9.20	11	8.08	72	11	5.04	3.28
13	3.84	16	18	6.32	12	16	22	18	58	11	3.98	3.14
14	3.84	5.36	12	6.32	24	21	59	24	56	11	3.84	3.14
15	3.42	4.40	6.80	6.64	24	21	85	15	60	11	3.70	3.28
16	3.28	3.00	6.48	6.48	26	21	87	13	42	11	3.70	3.42
17	3.14	2.87	6.48	6.64	29	21	68	12	37	11	3.56	7.92
18	2.87	2.87	6.64	6.64	25	21	46	11	32	6.16	3.70	13
19	3.00	2.35	6.64	6.64	11	21	33	14	29	6.00	3.56	6.32
20	3.00	1.83	6.96	6.32	6.96	17	30	19	33	6.64	3.56	4.40
21	5.04	1.61	6.80	6.32	7.28	17	26	19	24	8.56	3.84	4.40
22	7.44	1.52	6.64	6.48	9.40	10	16	12	23	8.24	3.84	4.26
23	7.60	1.43	6.96	6.48	7.44	13	8.88	18	22	7.92	3.70	5.68
24	7.44	1.43	6.80	11	6.96	14	9.20	87	22	7.92	3.56	24
25	7.60	1.43	6.64	13	6.96	14	8.72	145	22	7.92	3.70	30
26	7.60	5.04	6.96	13	6.64	11	7.12	135	21	7.92	3.84	20
27	7.60	17	7.12	15	6.00	14	6.96	88	21	7.92	3.84	30
28	7.60	11	6.96	11	5.84	14	12	44	20	7.76	3.84	28
29	7.60	15	6.80	6.00	5.84	13	22	20	19	7.60		38
30	7.60	13	6.64	4.72	5.84	14	56	18	15	7.60		31
31		13		4.88	5.68		42		15	7.60		39
Total	137.06	361.26	268.88	226.04	313.12	374.56	840.88	859.88	1,148	322.76	138.16	340.85
Mean	4.57	11.6	8.96	7.29	10.1	12.5	27.1	28.7	37.0	10.41	4.93	10.9
Max.	7.60	30	18	15	29	21	87	145	148	22	7.60	39
Min.	2.87	1.43	4.40	4.72	5.20	5.68	6.96	7.60	11	6.00	3.56	3.14
Runoff - mcm.	11.842	31.213	23.231	19.530	27.053	32.362	72.652	74.294	99.187	27.886	11.937	29.448

WATER YEAR 1972 : Max. 148 Min. 1.43 Mean 14.6 Annual Runoff 460.636 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.10	15.00	5.13	150				

PHET RIVER BASIN

Phet River at Phet Barrage (Down Stream), Phetchaburi (B2A)

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 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: Stable, no shifting adjustment for flow computation.

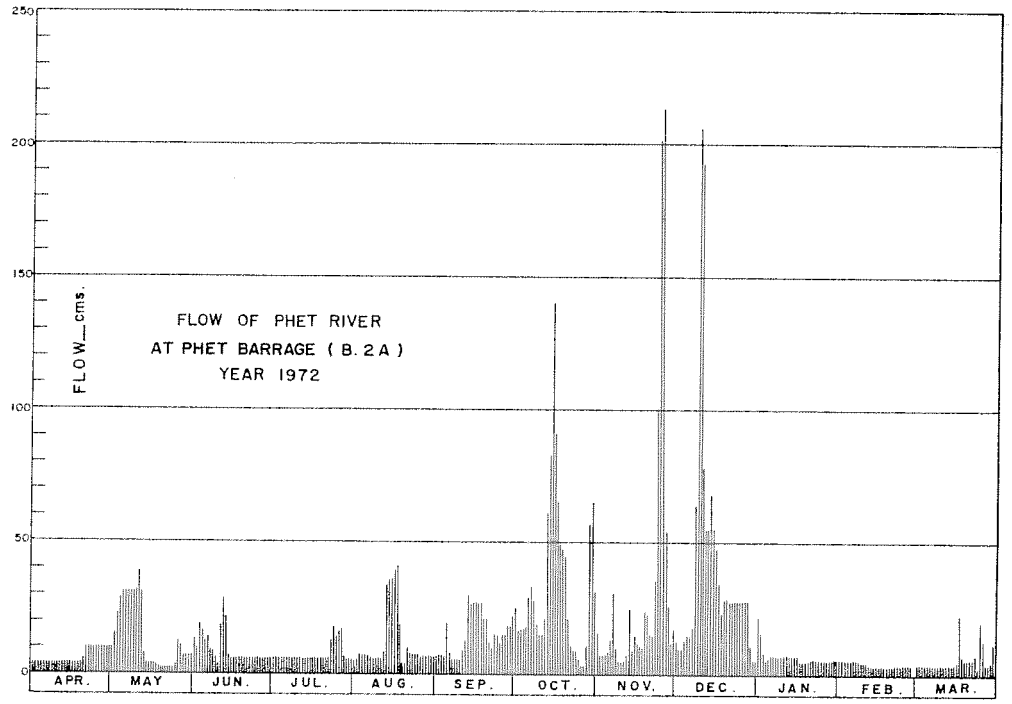
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 47 discharge measurements made in 1972. Flow regulated by Kaeng Krachan Reservoir and Phet Barrage at above gage site for irrigation of about 27,800 hectares.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.30	12.55	12.62	12.40	12.37	12.43	12.96	12.72	12.62	12.88	12.40	12.30
2	.30	.69	.55	.40	.40	.44	.75	.45	.55	.75	.40	.30
3	.30	.89	.80	.40	.45	.44	.75	.45	.55	.47	.40	.30
4	.30	13.05	.74	.40	.45	.43	.75	.45	.63	.40	.40	.30
5	.30	.10	.64	.40	.45	.81	.77	.48	.70	.42	.40	.30
6	12.30	13.10	12.67	12.40	12.45	12.48	13.05	12.68	12.70	12.45	12.40	12.30
7	.30	.10	.52	.40	.42	.38	.13	13.08	.77	.45	.40	.30
8	.30	.10	.50	.40	.40	.38	.02	12.54	13.72	.45	.38	.30
9	.30	.10	.43	.40	.40	.38	12.80	.35	15.57	.45	.35	.30
10	.30	.10	.25	.40	.40	.38	.70	.35	.41	.45	.35	.30
11	12.30	13.26	12.77	12.40	12.40	12.51	12.70	12.35	13.94	12.45	12.35	12.30
12	.30	.08	13.05	.40	.49	.63	.85	.45	.56	.45	.30	.30
13	.30	12.46	12.87	.40	13.15	13.07	.68	.96	.57	.45	.27	.30
14	.30	.30	.42	.40	.20	.00	14.01	.52	.79	.45	.27	.30
15	.30	.30	.40	.40	.20	.00	.79	.69	.56	.45	.27	.30
16	12.30	12.30	12.40	12.40	13.26	13.00	14.15	12.60	13.43	12.45	12.27	12.35
17	.30	.30	.40	.40	.30	.00	13.74	.56	.15	.39	.27	.91
18	.30	.25	.40	.40	12.78	.00	.43	.55	12.90	.35	.27	.44
19	.30	.20	.40	.40	.30	12.86	.42	.93	13.05	.35	.27	.40
20	.38	.20	.40	.40	.30	.84	.34	.90	.05	.38	.27	.40
21	12.55	12.20	12.40	12.40	12.52	12.59	12.85	12.70	12.90	12.40	12.27	12.40
22	.55	.20	.40	.40	.46	.54	.58	.68	.90	.40	.29	.40
23	.55	.20	.40	.62	.45	.70	.50	13.20	.90	.40	.30	.45
24	.55	.20	.40	.77	.45	.70	.50	15.52	.90	.40	.30	.20
25	.55	.28	.40	.65	.45	.60	.39	.64	.90	.40	.30	.82
26	12.55	12.89	12.40	12.73	12.43	12.70	12.25	14.61	12.90	12.40	12.30	12.64
27	.55	.86	.40	.74	.43	.70	.28	13.55	.90	.40	.30	.30
28	.55	.75	.40	.43	.43	.76	.56	12.98	.90	.40	.30	.30
29	.55	.75	.40	.37	.43	.76	13.61	.59	.58	.40	.30	.35
30	.55	.75	.40	.37	.43	.87	.75	.75	.40	.40		.59
31		.75		.37	.43		.10		.40	.40		.59
Mean	12.39	12.65	12.51	12.45	12.56	12.68	13.07	12.94	13.15	12.44	12.32	12.39
Max.	12.55	13.26	13.05	12.77	13.30	13.07	14.79	15.64	15.57	12.88	12.40	12.91
Min.	12.30	12.20	12.25	12.37	12.30	12.38	12.25	12.35	12.40	12.35	12.27	12.20

WATER YEAR 1972 : Max. 15.64 m. Min. 12.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.00	10	13	6.00	5.40	6.90	25	16	13	22	6.00	4.00
2	4.00	15	10	6.00	6.00	7.20	17	7.50	10	17	6.00	4.00
3	4.00	23	19	6.00	7.50	7.20	17	7.50	10	8.70	6.00	4.00
4	4.00	29	17	6.00	7.50	6.90	17	7.50	13	6.00	6.00	4.00
5	4.00	31	13	6.00	7.50	19	18	8.40	15	6.60	6.00	4.00
6	4.00	31	14	6.00	7.50	8.40	29	13	15	7.50	6.00	4.00
7	4.00	31	9.60	6.00	6.60	5.60	33	31	18	7.50	6.00	4.00
8	4.00	31	9.00	6.00	6.00	5.60	28	10	64	7.50	5.60	4.00
9	4.00	31	6.90	6.00	6.00	5.60	19	5.00	206	7.50	5.00	4.00
10	4.00	31	3.25	6.00	6.00	5.60	15	5.00	192	7.50	5.00	4.00
11	4.00	39	18	6.00	6.00	9.30	15	5.00	78	7.50	5.00	4.00
12	4.00	31	29	6.00	8.70	13	21	7.50	55	7.50	4.00	4.00
13	4.00	7.80	22	6.00	34	30	61	25	55	7.50	3.55	4.00
14	4.00	4.00	6.60	6.00	36	27	82	9.60	68	7.50	3.55	4.00
15	4.00	4.00	6.00	6.00	36	27	140	15	55	7.50	3.55	4.00
16	4.00	4.00	6.00	6.00	39	27	91	12	48	7.50	3.55	5.00
17	4.00	4.00	6.00	6.00	41	27	65	11	34	5.80	3.55	23
18	4.00	3.25	6.00	6.00	18	27	48	10	23	5.00	3.55	7.20
19	4.00	2.50	6.00	6.00	4.00	21	47	24	29	5.00	3.55	6.00
20	5.60	2.50	6.00	6.00	4.00	21	43	23	29	5.60	3.55	6.00
21	10	2.50	6.00	6.00	9.60	12	21	15	23	6.00	3.55	6.00
22	10	2.50	6.00	6.00	7.80	10	11	15	23	6.00	3.85	6.00
23	10	2.50	6.00	13	7.50	15	9.00	36	23	6.00	4.00	7.50
24	10	2.50	6.00	18	7.50	15	9.00	202	23	6.00	4.00	2.50
25	10	3.70	6.00	14	7.50	12	5.80	213	23	6.00	4.00	20
26	10	23	6.00	16	6.90	15	3.25	125	23	6.00	4.00	13
27	10	21	6.00	17	6.90	15	3.70	54	23	6.00	4.00	4.00
28	10	17	6.00	6.90	6.90	18	11	26	23	6.00	4.00	4.00
29	10	17	6.00	5.40	6.90	18	57	12	11	6.00		5.00
30	10	17	6.00	5.40	6.90	22	65	17	6.00	6.00		12
31		17		5.40	6.90		31		6.00	6.00		12
Total	181.60	490.75	286.35	233.10	374.00	459.30	1,057.75	968.00	1,237.00	230.20	126.40	199.20
Mean	6.05	15.8	9.54	7.52	12.1	15.3	34.1	32.3	39.9	7.42	4.51	6.42
Max.	10	39	29	18	41	30	140	213	206	22	6.00	23
Min.	4.00	2.50	3.25	5.40	4.00	5.60	3.25	5.00	6.00	5.00	3.55	2.50
Runoff - MCM.	15.690	42.401	24.741	20.140	32.314	39.683	91.390	83.635	106.877	19.889	10.921	17.211

WATER YEAR 1972 : Max. 213 Min. 2.50 Mean 16.0 Annual Runoff 504.891 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 24	12.00	16.10	256				

PHET RIVER BASIN

Phet River at Ban Song Phi Nong, Phetchaburi (83)

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. - M.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: Arithmetic mean of 5 readings.

Period of Available Gage Records: 1930 to date.

Rating Operation:

Period of Rating: 1954-1959, 1968 to date.
Rated by Float: -
Rated by Current Meter: 1954-1959, 1968 to date.

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

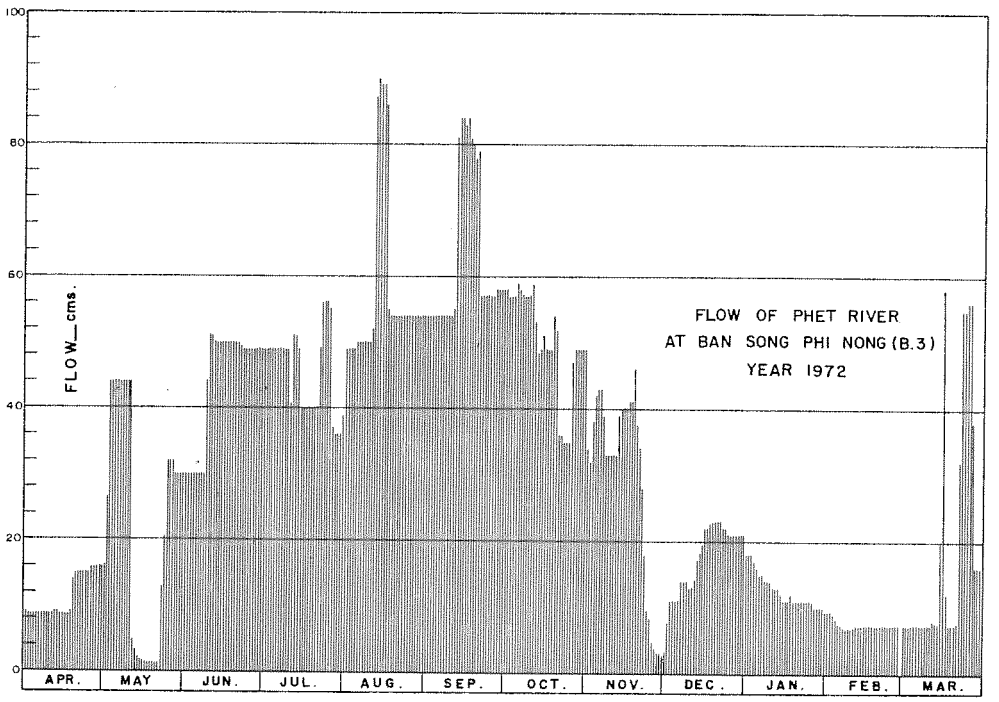
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 22 discharge measurements made in 1972. Flow regulated by Kaeng Krachan Reservoir.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	42.02	42.22	42.54	42.87	42.86	42.95	43.00	42.61	41.78	42.31	42.11	42.05
2	.01	.39	.54	.87	.87	.95	42.99	.57	.87	.31	.11	.05
3	.01	.78	.54	.87	.87	.95	.99	.67	42.10	.30	.10	.05
4	.01	.79	.54	.87	.87	.95	.99	.75	.10	.28	.08	.05
5	.01	.79	.54	.87	.88	.95	43.02	.77	.10	.27	.05	.05
6	42.01	42.79	42.54	42.87	42.88	42.95	43.00	42.77	42.10	42.25	42.05	42.05
7	.01	.79	.55	.87	.88	.95	42.99	.70	.18	.25	.04	.05
8	.01	.79	.56	.87	.88	.95	.99	.58	.16	.23	.04	.05
9	.01	.79	.78	.87	.88	.95	.99	.58	.17	.23	.04	.05
10	.01	.79	.90	.86	.88	.95	.99	.58	.15	.22	.04	.05
11	42.01	42.79	42.89	42.72	42.91	42.96	43.02	42.58	42.15	42.21	42.04	42.05
12	.02	41.85	.88	.89	43.41	43.33	42.93	.58	.18	.20	.05	.06
13	.02	.76	.88	.90	.45	.37	.82	.70	.24	.20	.05	.06
14	.01	.70	.88	.86	.44	.37	.87	.72	.27	.18	.05	.06
15	.01	.68	.88	.72	.44	.36	.89	.72	.32	.15	.05	.34
16	42.01	41.67	42.88	42.72	43.40	43.37	42.87	42.72	42.36	42.14	42.05	43.00
17	.01	.65	.88	.72	42.96	.34	.87	.73	.37	.15	.05	42.18
18	.02	.65	.88	.72	.95	.32	.87	.74	.38	.17	.05	.05
19	.18	.65	.88	.72	.95	.29	.94	.81	.38	.16	.05	.05
20	.21	.64	.88	.72	.95	.02	.91	.66	.38	.16	.05	.05
21	42.21	41.64	42.88	42.72	42.95	42.99	42.64	42.61	42.38	42.16	42.05	42.06
22	.21	.64	.67	.87	.95	.99	.64	.49	.38	.16	.05	.57
23	.21	42.15	.86	.87	.95	.99	.63	.20	.37	.15	.05	.99
24	.21	.33	.87	.98	.95	.99	.63	.03	.37	.15	.05	.99
25	.21	.57	.87	.98	.95	.99	.63	41.99	.36	.15	.05	43.00
26	42.22	42.57	42.87	42.96	42.95	42.99	42.84	41.85	42.36	42.14	42.05	43.00
27	.22	.57	.87	.67	.95	43.01	.86	.79	.36	.13	.05	42.68
28	.22	.54	.87	.65	.95	.00	.87	.76	.35	.13	.05	.27
29	.22	.54	.87	.65	.95	.00	.87	.76	.35	.13		.27
30	.22	.54	.87	.65	.95	.00	.87	.74	.35	.13		.27
31		.54		.69	.95		.87		.35	.11		.27
Mean	42.09	42.28	42.78	42.81	43.00	43.07	42.88	42.46	42.25	42.19	42.05	42.28
Max.	42.22	42.79	42.90	42.98	43.45	43.37	43.02	42.81	42.38	42.31	42.11	43.00
Min.	42.01	41.64	42.54	42.65	42.86	42.95	42.63	41.74	41.78	42.11	42.04	42.05

WATER YEAR 1972 : Max. 43.45 m. Min. 41.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.10	16	30	49	49	54	58	34	3.46	18	9.41	7.30
2	8.80	23	30	49	49	54	57	32	7.72	18	9.41	7.30
3	8.80	44	30	49	49	54	57	37	11	18	9.00	7.30
4	8.80	44	30	49	49	54	57	42	11	17	8.32	7.30
5	8.80	44	30	49	50	54	59	43	11	16	7.30	7.30
6	8.80	44	30	49	50	54	58	43	11	15	7.30	7.30
7	8.80	44	31	49	50	54	57	39	14	15	6.96	7.30
8	8.80	44	31	49	50	54	57	33	14	14	6.96	7.30
9	8.80	44	44	49	50	54	57	33	14	14	6.96	7.30
10	8.80	44	51	49	50	54	57	33	13	14	6.96	7.30
11	8.80	44	51	40	52	55	59	33	13	13	6.96	7.30
12	9.10	4.85	50	51	87	81	53	33	14	13	7.30	7.64
13	9.10	3.12	50	51	90	84	48	39	17	13	7.30	7.64
14	8.80	2.10	50	49	89	84	49	40	18	12	7.30	7.64
15	8.80	1.84	50	40	89	83	51	40	20	11	7.30	20
16	8.80	1.71	50	40	86	84	49	40	22	11	7.30	58
17	8.80	1.45	50	40	55	81	49	41	22	11	7.30	12
18	9.10	1.45	50	40	54	80	49	41	23	12	7.30	7.30
19	14	1.45	50	40	54	78	54	46	23	11	7.30	7.30
20	15	1.32	50	40	54	79	52	37	23	11	7.30	7.30
21	15	1.32	50	40	54	57	36	34	23	11	7.30	7.64
22	15	1.32	37	49	54	57	36	28	23	11	7.30	32
23	15	13	49	56	54	57	35	15	22	11	7.30	57
24	15	20	49	56	54	57	35	9.40	22	11	7.30	57
25	15	32	49	56	54	57	35	8.24	21	11	7.30	58
26	16	32	49	55	54	57	47	4.85	21	11	7.30	58
27	16	32	49	37	54	58	49	3.65	21	10	7.30	38
28	16	30	49	36	54	58	49	3.12	21	10	7.30	16
29	16	30	49	36	54	58	49	3.12	21	10		16
30	16	30	49	36	54	58	49	2.78	21	10		16
31		30		39	54		49		21	9.41		16
Total	343.60	705.93	1,317	1,417	1,800	1,883	1,556	871.14	542.18	392.41	209.64	586.76
Mean	11.4	22.8	43.9	45.7	58.1	62.8	50.2	29.0	17.5	12.6	7.49	18.9
Max.	16	44	51	56	90	84	59	46	23	18	9.41	58
Min.	8.80	1.32	30	36	49	54	35	2.78	3.46	9.41	6.96	7.30
Runoff - mcm.	29.687	60.992	113.789	122.429	155.520	162.691	134.438	75.266	46.844	33.904	18.113	50.696

WATER YEAR 1972 : Max. 90 Min. 1.32 Mean 31.8 Annual Runoff 1,004.371 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 13		43.45	90				

PHET RIVER BASIN

Phet River at Takhian Ha Bat, Phetchaburi (B5)

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: Stable, no shifting adjustment for flow computation.

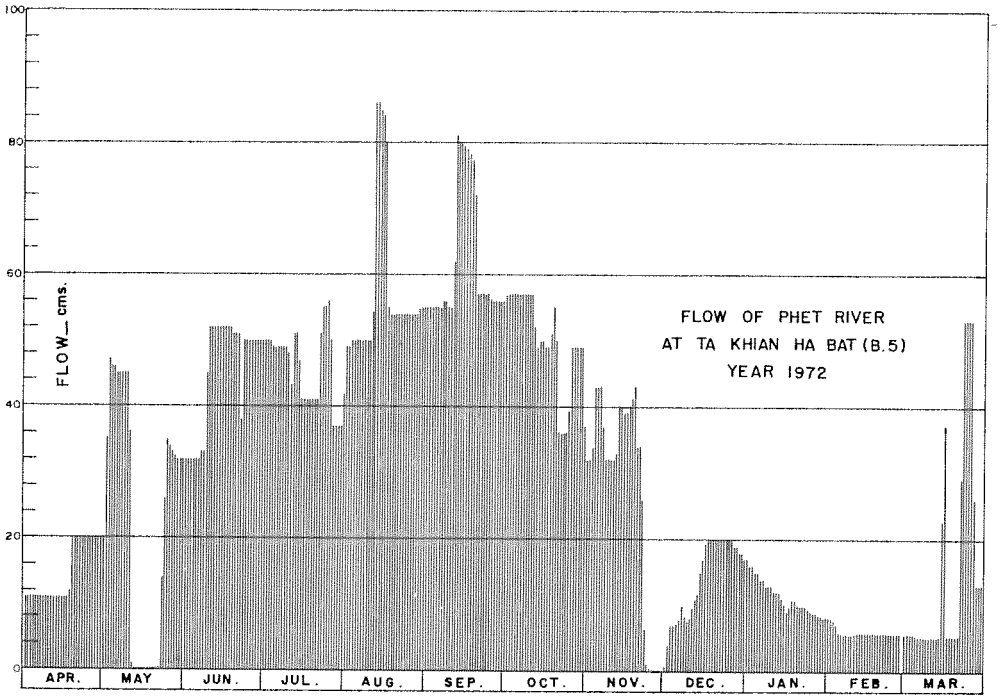
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 169 discharge measurements made in 1972. Flow regulated by Kheng Krachan Reservoir.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	48.78	49.10	49.47	49.91	49.90	50.03	50.06	49.45	48.09	48.99	48.63	48.49
2	.78	.54	.47	.91	.90	.02	.06	.45	.41	.98	.62	.49
3	.78	.83	.47	.91	.91	.02	.06	.51	.57	.96	.61	.49
4	.78	.82	.47	.90	.91	.02	.06	.74	.57	.94	.58	.49
5	.78	.81	.47	.90	.91	.02	.06	.74	.57	.92	.51	.49
6	48.78	49.80	49.47	49.90	49.91	50.02	50.06	49.75	48.61	48.89	48.51	48.47
7	.78	.80	.48	.90	.91	.04	.06	.58	.72	.87	.49	.47
8	.78	.79	.50	.89	.91	.04	.06	.46	.64	.86	.49	.48
9	.78	.79	.78	.89	.91	.03	.06	.46	.60	.85	.49	.47
10	.78	.79	.96	.86	.91	.03	.06	.46	.62	.83	.49	.47
11	48.78	49.49	49.95	49.71	50.00	50.15	50.07	49.45	48.68	48.82	48.50	48.47
12	.78	48.15	.95	.94	.67	.58	49.96	.50	.74	.81	.51	.47
13	.78	47.88	.95	.94	.67	.56	.90	.66	.83	.79	.51	.47
14	.78	.83	.95	.84	.65	.55	.91	.66	.92	.78	.51	.47
15	.78	.82	.95	.68	.63	.54	.91	.65	49.01	.71	.51	49.20
16	48.78	47.81	49.95	49.68	50.54	50.53	49.90	49.65	49.07	48.68	48.50	49.58
17	.78	.81	.95	.68	.02	.51	.90	.66	.09	.71	.50	48.48
18	.81	.81	.95	.68	.01	.50	.94	.69	.11	.75	.50	.47
19	49.10	.81	.94	.68	.01	.40	50.02	.73	.11	.74	.50	.47
20	.10	.81	.94	.69	.01	.07	49.92	.52	.11	.73	.50	.47
21	49.10	47.81	49.94	49.69	50.02	50.07	49.57	49.51	49.11	48.72	48.50	48.47
22	.10	48.08	.62	.93	.02	.06	.57	.21	.11	.71	.50	49.40
23	.10	.87	.92	50.02	.02	.06	.57	48.54	.10	.71	.50	.97
24	.10	49.27	.92	.03	.02	.06	.57	.12	.10	.69	.50	.97
25	.10	.53	.91	.05	.02	.05	.64	.01	.09	.68	.50	.97
26	49.10	49.52	49.91	50.00	50.02	50.06	49.89	47.89	49.09	48.66	48.49	49.97
27	.10	.50	.91	49.59	.02	.06	.89	.86	.08	.66	.49	.28
28	.10	.47	.91	.59	.02	.06	.88	.88	.06	.64	.49	48.86
29	.10	.47	.91	.59	.03	.06	.89	.86	.05	.64		.85
30	.10	.47	.91	.59	.03	.06	.89	.87	.03	.63		.85
31		.47	.91	.68	.03		.83		.01			.85
Mean	48.91	48.99	49.80	49.81	50.08	50.17	49.91	49.15	48.87	48.78	48.51	48.83
Max.	49.10	49.83	49.96	50.05	50.67	50.58	50.07	49.75	49.11	48.99	48.63	49.97
Min.	48.78	47.81	49.47	49.59	49.90	50.02	49.57	48.01	48.09	48.63	48.49	48.47

WATER YEAR 1972 : Max. 50.67 m. Min. 47.81 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31,1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	20	32	50	49	55	57	32	0.95	17	8.26	5.62
2	11	35	32	50	49	55	57	32	4.18	16	8.04	5.62
3	11	47	32	50	50	55	57	34	7.06	16	7.82	5.52
4	11	46	32	49	50	55	57	43	7.06	15	7.24	5.62
5	11	46	32	49	50	55	57	43	7.06	15	5.98	5.62
6	11	45	32	49	50	55	57	43	7.82	14	5.98	5.26
7	11	45	33	49	50	56	57	37	10	14	5.62	5.26
8	11	45	33	49	50	56	57	32	8.48	13	5.62	5.44
9	11	45	45	49	50	55	57	32	7.60	13	5.62	5.26
10	11	45	52	48	50	55	57	32	8.04	13	5.62	5.26
11	11	33	52	42	54	61	57	32	9.36	12	5.80	5.26
12	11	1.00	52	51	86	81	52	33	11	12	5.98	5.26
13	11	0.18	52	51	86	80	49	40	12	12	5.98	5.26
14	11	0.07	52	47	85	80	50	40	15	11	5.98	5.26
15	11	0.05	52	41	84	79	50	39	17	10	5.98	23
16	11	0.02	52	41	79	79	49	39	19	9.36	5.80	37
17	11	0.02	52	41	55	78	49	40	20	10	5.80	5.44
18	12	0.02	52	41	54	77	51	41	20	11	5.80	5.26
19	20	0.02	51	41	54	72	55	43	20	11	5.80	5.26
20	20	0.02	51	41	54	57	50	34	20	10	5.80	5.26
21	20	0.02	51	41	54	57	36	34	20	10	5.80	5.26
22	20	0.40	38	51	54	57	36	23	20	10	5.80	30
23	20	14	50	55	54	57	36	6.52	20	10	5.80	53
24	20	25	50	55	54	57	36	1.10	20	9.58	5.80	53
25	20	35	50	56	54	56	39	0.55	20	9.36	5.80	53
26	20	34	50	50	54	56	49	0.21	20	8.92	5.62	53
27	20	33	50	37	54	56	49	0.14	19	8.92	5.62	26
28	20	32	50	37	54	56	49	0.18	19	8.48	5.62	13
29	20	32	50	37	55	56	49	0.14	18	8.48		13
30	20	32	50	37	55	56	49	0.16	18	8.26		13
31		32		41	55		47		17	8.26		13
Total	484	722.82	1,412	1,426	1,786	1,860	1,557	807.00	442.61	346.36	170.38	482.82
Mean	16.1	23.3	45.5	46.0	57.6	62.0	50.2	26.9	14.3	11.5	6.08	15.6
Max.	20	47	52	56	86	81	57	43	20	17	8.26	53
Min.	11	0.02	32	37	49	55	36	0.55	0.95	8.26	5.62	5.26
Runoff - MCM.	41.818	62.452	121.997	123.206	154.310	160.704	134.525	69.724	38.241	29.925	14.721	41.716

WATER YEAR 1972 : Max. 86 Min. 0.02 Mean 31.5 Annual Runoff 993.339 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.13	01.00	50.67	86				

PHET RIVER BASIN

Huai Mae Prachan at Highway Bridge, Phetchaburi (B6)

Location: Lat. 12°-55'-56" N., Long. 99°-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: 1961-1963, 1964 to date.
Rated by Float: –
Rated by Current Meter: 1961-1963, 1964 to date.

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

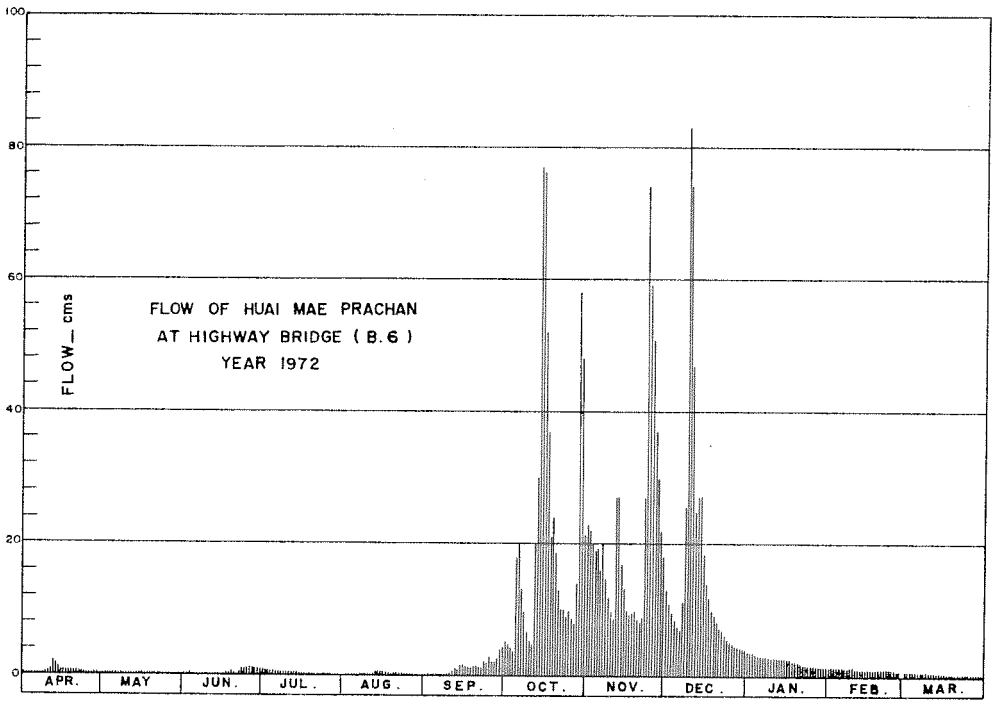
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 74 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.41	23.50	23.43	23.67	23.46	23.46	24.20	24.38	24.42	23.88	23.66	23.56
2	.40	.48	.46	.65	.46	.48	.15	.34	.32	.86	.65	.55
3	.40	.48	.56	.63	.47	.47	.12	.28	.24	.86	.64	.55
4	.41	.47	.48	.62	.48	.48	.07	.21	.18	.84	.64	.54
5	.41	.46	.45	.60	.46	.48	.56	.23	.13	.83	.64	.54
6	23.40	23.46	23.44	23.59	23.44	23.47	24.67	24.52	24.11	23.84	23.64	23.54
7	.41	.46	.45	.58	.45	.50	.42	.67	.16	.82	.63	.53
8	.42	.45	.47	.57	.49	.52	.28	.47	.82	.82	.63	.53
9	.55	.44	.49	.56	.49	.52	.11	.34	25.92	.81	.62	.53
10	.55	.45	.49	.55	.48	.52	.01	.27	.67	.80	.62	.52
11	23.68	23.44	23.49	23.54	23.47	23.64	23.96	24.20	25.16	23.80	23.61	23.51
12	.88	.44	.48	.54	.55	.74	24.63	.87	24.82	.79	.61	.51
13	.84	.46	.48	.54	.63	.68	.95	.87	.89	.79	.61	.50
14	.73	.45	.48	.54	.63	.84	25.82	.55	.89	.79	.61	.50
15	.64	.44	.47	.53	.61	.83	.80	.39	.67	.78	.60	.50
16	23.62	23.44	23.51	23.53	23.58	23.79	25.40	24.27	24.49	23.77	23.60	23.49
17	.62	.45	.54	.52	.57	.76	.08	.23	.37	.77	.60	.48
18	.60	.46	.53	.53	.57	.75	24.70	.24	.28	.75	.59	.48
19	.58	.46	.57	.52	.56	.81	.78	.28	.22	.74	.59	.48
20	.59	.45	.51	.51	.55	.81	.55	.20	.16	.73	.59	.48
21	23.59	23.44	23.49	23.51	23.54	23.76	24.39	24.17	24.12	23.72	23.58	23.48
22	.56	.44	.55	.50	.54	.75	.27	.21	.09	.69	.58	.47
23	.54	.43	.72	.50	.52	.92	.25	.88	.05	.68	.58	.46
24	.49	.42	.71	.49	.52	.86	.21	25.78	.02	.68	.58	.44
25	.52	.41	.72	.48	.50	24.00	.25	.69	23.99	.68	.57	.46
26	23.51	23.40	23.76	23.48	23.50	23.90	24.18	25.39	23.97	23.67	23.57	23.49
27	.53	.39	.74	.47	.48	.91	.16	.10	.95	.66	.56	.48
28	.53	.39	.70	.46	.47	.96	.43	24.96	.94	.66	.56	.47
29	.50	.39	.70	.46	.47	24.10	23.51	.73	.92	.66		.47
30	.50	.39	.70	.46	.46	.12	.20	.55	.91	.65		.47
31		.39		.46	.44		24.71		.90	.65		.46
Mean	23.55	23.44	23.55	23.53	23.51	23.72	24.44	24.57	24.38	23.76	23.60	23.50
Max.	23.88	23.50	23.76	23.67	23.63	24.12	25.82	25.78	25.92	23.88	23.66	23.56
Min.	23.40	23.39	23.43	23.46	23.44	23.46	24.07	24.17	23.90	23.65	23.56	23.46

WATER YEAR 1972 : Max. 25.92 m. Min. 23.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.30	0.16	0.88	0.22	0.22	5.40	13	13	3.76	1.46	0.76
2	0.10	0.26	0.22	0.80	0.22	0.26	5.00	12	11	3.64	1.40	0.70
3	0.10	0.26	0.48	0.72	0.24	0.24	4.52	10	9.60	3.64	1.32	0.70
4	0.12	0.24	0.26	0.68	0.26	0.26	3.84	9.00	8.40	3.28	1.32	0.64
5	0.12	0.22	0.20	0.60	0.22	0.26	15	9.40	7.54	3.16	1.32	0.64
6	0.10	0.22	0.18	0.57	0.18	0.24	20	16	7.18	3.04	1.32	0.64
7	0.12	0.22	0.20	0.54	0.20	0.30	13	20	8.08	3.04	1.24	0.58
8	0.14	0.20	0.24	0.51	0.28	0.36	10	15	25	3.04	1.24	0.58
9	0.45	0.18	0.28	0.48	0.28	0.36	7.18	12	* 83	2.92	1.24	0.58
10	0.45	0.20	0.28	0.45	0.26	0.36	5.56	10	68	2.80	1.24	0.52
11	0.92	0.18	0.28	0.42	0.24	0.76	4.84	8.80	40	2.80	1.08	0.46
12	2.06	0.18	0.26	0.42	0.45	1.20	19	27	25	2.70	1.08	0.46
13	1.76	0.22	0.26	0.42	0.72	0.92	30	27	27	2.70	1.08	0.40
14	1.15	0.20	0.26	0.42	0.72	1.78	77	17	27	2.70	1.08	0.40
15	0.76	0.18	0.24	0.39	0.64	1.71	76	13	20	2.60	1.00	0.40
16	0.68	0.18	0.33	0.39	0.54	1.45	52	10	14	2.50	1.00	0.37
17	0.68	0.20	0.42	0.36	0.51	1.30	36	9.40	12	2.50	1.00	0.34
18	0.60	0.22	0.39	0.39	0.51	1.25	21	9.60	10	2.30	0.94	0.34
19	0.54	0.22	0.51	0.36	0.48	1.57	24	10	9.20	2.20	0.94	0.34
20	0.57	0.20	0.33	0.33	0.45	1.57	17	8.80	8.08	2.10	0.94	0.34
21	0.57	0.18	0.28	0.33	0.42	1.30	13	8.26	7.36	2.00	0.88	0.34
22	0.48	0.18	0.45	0.30	0.42	1.25	10	9.00	6.84	1.72	0.88	0.31
23	0.42	0.16	0.10	0.30	0.36	2.36	10	27	6.20	1.64	0.88	0.28
24	0.28	0.14	1.05	0.28	0.36	1.92	9.00	74	5.88	1.64	0.88	0.22
25	0.36	0.12	1.10	0.26	0.36	3.00	10	69	5.26	1.64	0.82	0.28
26	0.33	0.10	1.30	0.26	0.30	2.20	8.44	51	4.98	1.56	0.82	0.37
27	0.39	0.09	1.20	0.24	0.26	2.28	8.08	37	4.70	1.48	0.76	0.34
28	0.39	0.09	1.00	0.22	0.24	2.68	14	30	4.56	1.48	0.76	0.31
29	0.30	0.09	1.00	0.22	0.24	4.20	58	22	4.28	1.48	*	0.31
30	0.30	0.09	1.00	0.22	0.22	4.52	42	17	4.14	1.40		0.31
31		0.09		0.22	0.18		21		4.00	1.40		0.26
Total	15.36	5.61	15.26	12.98	10.92	42.08	650.26	611.26	491.28	74.86	29.92	13.52
Mean	0.51	0.18	0.50	0.42	0.35	1.40	21.0	20.4	15.8	2.37	1.07	0.44
Max.	2.06	0.30	1.30	0.88	0.72	4.52	77	74	83	3.76	1.46	0.76
Min.	0.10	0.09	0.16	0.22	0.18	0.22	3.84	8.26	4.00	1.40	0.76	0.26
Runoff - mcm.	1.327	0.485	1.232	1.121	0.943	3.636	56.182	52.813	42.446	6.468	2.585	1.168

WATER YEAR 1972 : Max. 83 Min. 0.09 Mean 5.41 Annual Runoff 170.493 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.15	02.00	26.25	105				

PHET RIVER BASIN

Huai Mae Prachan at Ban Nong Bua, Phetchaburi (B1)

Location: Lat. 13°-01'-45" N., Long. 99°-44'-00" E., on left bank at Ban Nong Rua, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 846 Sq.km.

Type of Gage: Water-Stage recorder.

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

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

Location: infront of B1 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 on April - July. Recording on August - March.

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.

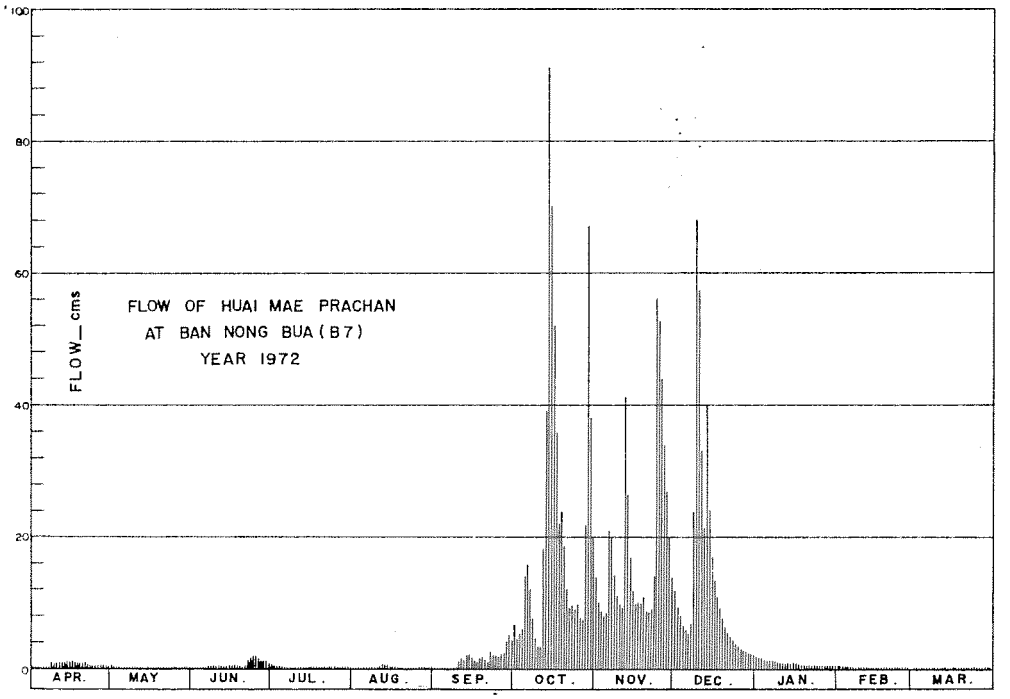
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 225 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.90	1.07	0.88	1.16	0.93	0.89	2.11	2.65	2.50	1.47	1.07	0.94
2	.91	.05	.88	.12	.93	.90	1.88	.40	.33	.44	.07	.94
3	.92	.03	.94	.10	.92	.89	.96	.27	.20	.42	.07	.94
4	.92	.01	.93	.08	.92	.91	2.03	.23	.09	.39	.06	.92
5	.92	.01	.95	.06	.92	.91	.67	.24	.01	.37	.05	.90
6	0.91	1.01	1.00	1.05	0.92	0.91	2.78	3.06	1.98	1.34	1.04	0.90
7	.98	.00	.08	.04	.92	.95	.52	.02	2.11	.33	.03	.91
8	1.23	0.99	.06	.03	.92	.98	.18	2.68	3.22	.30	.03	.90
9	.17	.99	.07	.01	.95	1.01	1.91	.48	4.77	.29	.01	.90
10	.23	1.01	.06	.01	1.01	.28	.74	.36	.42	.27	.01	.91
11	1.27	0.99	1.06	1.00	1.16	1.44	1.75	2.31	3.55	1.26	1.02	0.90
12	.23	1.02	.07	.00	.24	.36	3.27	3.88	.06	.24	.00	.90
13	.21	.00	.05	.00	.19	.52	.73	.31	.83	.23	0.99	.90
14	.28	0.97	.12	.00	.14	.55	5.41	2.83	.24	.23	.98	.90
15	.26	.97	.19	.00	.08	.43	4.83	.56	2.86	.21	.98	.91
16	1.31	1.01	1.16	0.99	1.06	1.32	4.27	2.35	2.61	1.21	0.98	0.91
17	.27	0.99	.18	.98	.04	.28	3.64	.38	.43	.19	.98	.91
18	.23	.98	.18	.97	.02	.42	.09	.41	.30	.18	.98	.91
19	.27	.99	.13	.96	.00	.45	.17	.45	.18	.17	.98	.91
20	.27	.99	.08	.96	0.98	.34	2.77	.27	.08	.16	.97	.90
21	1.22	0.99	1.15	0.97	0.97	1.28	2.51	2.25	2.00	1.15	0.97	0.90
22	.17	.96	.37	.96	.96	.60	.31	.30	1.92	.13	.97	.91
23	.13	.95	.44	.95	.95	.52	.34	.71	.85	.12	.96	.91
24	.11	.95	.48	.94	.95	.49	.30	4.41	.79	.12	.96	.91
25	.09	.95	.48	.93	.93	.46	.36	.29	.73	.11	.95	.96
26	1.16	0.95	1.42	0.93	0.92	1.55	2.19	4.00	1.68	1.10	0.95	0.93
27	.14	.94	.31	.93	.91	.58	.16	3.61	.64	.09	.94	.92
28	.10	.93	.32	.92	.90	.84	.98	.39	.60	.09	.94	.92
29	.07	.92	.31	.91	.89	.95	4.73	2.98	.57	.09		.91
30	.05	.91	.22	.91	.89	.88	3.77	.70	.56	.08		.90
31		.91		.91	.88		.02		.51			.90
Mean	1.16	1.03	1.18	1.04	1.08	1.37	2.69	2.82	2.61	1.22	1.03	0.91
Max.	1.31	1.07	1.48	1.16	1.24	1.95	5.41	4.41	4.77	1.47	1.07	0.96
Min.	0.90	0.91	0.88	0.91	0.88	0.89	1.74	2.23	1.51	1.08	0.94	0.90

WATER YEAR 1972 : Max. 5.41 m. Min. 0.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.20	0.44	0.18	0.68	0.23	0.19	6.92	14	12	1.95	0.44	0.24
2	0.21	0.40	0.18	0.56	0.23	0.20	4.64	10	9.56	1.80	0.44	0.24
3	0.22	0.36	0.24	0.50	0.22	0.19	5.40	8.84	8.00	1.70	0.44	0.24
4	0.22	0.32	0.23	0.46	0.22	0.21	6.10	8.36	6.70	1.56	0.42	0.22
5	0.22	0.32	0.25	0.42	0.22	0.21	14	8.48	5.90	1.48	0.40	0.20
6	0.21	0.32	0.30	0.40	0.22	0.21	16	21	5.60	1.36	0.38	0.20
7	0.28	0.30	0.46	0.38	0.22	0.25	12	20	6.92	1.32	0.36	0.21
8	0.92	0.29	0.42	0.36	0.22	0.28	7.76	14	25	1.20	0.36	0.20
9	0.71	0.29	0.44	0.32	0.25	0.32	4.96	11	68	1.16	0.32	0.20
10	0.92	0.32	0.42	0.32	0.32	1.12	3.52	9.92	57	1.08	0.32	0.21
11	1.08	0.29	0.42	0.30	0.68	1.80	3.60	9.31	33	1.04	0.34	0.20
12	0.92	0.34	0.44	0.30	0.96	1.44	26	41	21	0.96	0.30	0.20
13	0.84	0.30	0.40	0.30	0.77	2.20	37	27	40	0.92	0.29	0.20
14	1.12	0.27	0.56	0.30	0.62	2.35	91	17	24	0.92	0.28	0.20
15	1.04	0.27	0.77	0.30	0.46	1.75	70	12	17	0.84	0.28	0.21
16	1.24	0.32	0.68	0.29	0.42	1.28	52	9.80	13	0.84	0.28	0.21
17	1.08	0.29	0.74	0.28	0.38	1.12	35	10	11	0.77	0.28	0.21
18	0.92	0.28	0.74	0.27	0.34	1.70	22	10	9.20	0.74	0.28	0.21
19	1.08	0.29	0.59	0.26	0.34	1.85	24	11	7.76	0.71	0.28	0.21
20	1.08	0.29	0.46	0.26	0.28	1.36	16	8.84	6.60	0.68	0.27	0.20
21	0.88	0.29	0.65	0.27	0.27	1.12	12	8.60	5.80	0.65	0.27	0.20
22	0.71	0.26	1.48	0.26	0.26	2.60	9.32	9.20	5.00	0.59	0.27	0.21
23	0.59	0.25	1.80	0.25	0.25	2.20	9.68	14	4.40	0.56	0.26	0.21
24	0.53	0.25	2.00	0.24	0.25	2.05	9.20	56	3.92	0.56	0.26	0.21
25	0.48	0.25	2.00	0.23	0.23	1.90	9.92	53	3.44	0.53	0.25	0.26
26	0.68	0.25	1.70	0.23	0.22	2.35	7.88	44	3.08	0.50	0.25	0.23
27	0.62	0.24	1.24	0.23	0.21	2.50	7.52	34	2.84	0.48	0.24	0.22
28	0.52	0.23	1.28	0.22	0.20	4.32	20	27	2.60	0.48	0.24	0.22
29	0.44	0.22	1.24	0.21	0.19	5.30	67	20	2.45	0.48		0.21
30	0.40	0.21	0.88	0.21	0.19	4.64	38	14	2.40	0.46		0.20
31		0.21		0.21	0.18		20		2.15			0.20
Total	20.34	8.96	23.19	9.82	10.01	49.01	668.36	561.35	425.32	28.32	8.80	6.58
Mean	0.67	0.29	0.77	0.31	0.32	1.63	21.6	18.7	13.7	0.94	0.31	0.21
Max.	1.24	0.44	2.00	0.68	0.96	5.30	91	56	68	1.95	0.44	0.26
Min.	0.20	0.21	0.18	0.21	0.18	0.19	3.52	8.36	2.15	0.46	0.24	0.20
Runoff - mcm.	1.757	0.774	2.004	0.848	0.865	4.234	57.746	48.501	36.748	2.447	0.760	0.568

WATER YEAR : Max. 91 Min. 0.18 Mean 4.98 Annual Runoff 157.253 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct.14	10.00	5.62	100				

PRAN RIVER BASIN

Pran River at Pran Buri Damsite, Prachuap Khiri Khan (Pr3A)

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: + 26.276 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: Stable, no shifting adjustment for flow computation.

Overbank Flow Conditions: No overbank flow.

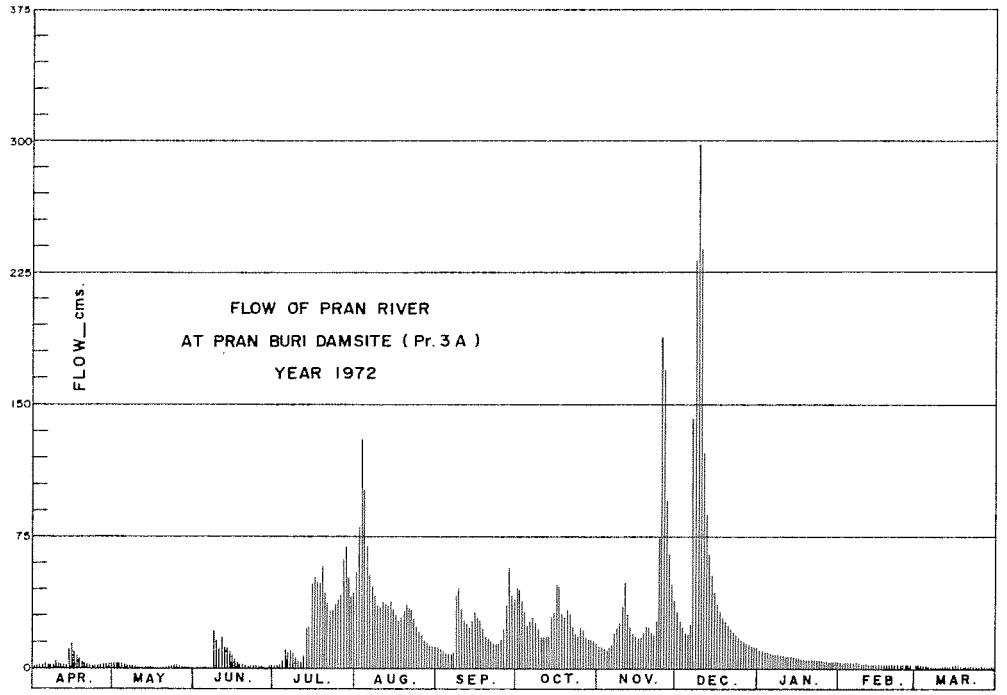
General Description: Records good. Stage-discharge relation defined by 234 discharge measurements made in 1972.

Remarks: Asterisk (*) designates the discharges determined from hourly gage-heights.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15.47	15.64	15.33	15.50	18.04	16.25	17.68	16.24	17.09	16.15	15.67	15.47
2	.48	.68	.32	.57	.91	.18	.62	.21	16.90	.12	.66	.47
3	.53	.67	.31	.59	20.31	.12	.30	.17	.75	.09	.65	.46
4	.55	.61	.32	.73	19.59	.05	.00	.14	.64	.06	.64	.45
5	.63	.56	.32	16.11	18.51	.01	16.80	.20	.59	.04	.63	.45
6	15.58	15.55	15.32	16.09	17.97	15.99	16.92	16.28	16.74	16.01	15.62	15.44
7	.57	.53	.81	.10	.69	16.05	17.02	.56	20.20	15.99	.61	.44
8	.57	.50	16.64	.02	.45	17.51	16.82	.69	21.79	.97	.60	.44
9	.74	.47	.43	15.89	.27	.72	.67	.86	22.80	.95	.60	.43
10	.62	.43	.18	.79	.24	.19	.54	17.27	.15	.93	.59	.43
11	15.58	15.42	16.46	15.73	17.41	16.92	16.47	17.79	20.13	15.91	15.59	15.44
12	.55	.40	.24	.93	.36	.83	.48	.07	19.02	.89	.59	.44
13	.54	.43	.16	16.70	.32	.81	.54	16.73	18.36	.87	.58	.44
14	16.18	.45	.07	.78	.40	.95	17.02	.57	17.93	.85	.57	.44
15	.33	.43	15.94	17.73	.23	17.16	.15	.51	.60	.84	.56	.45
16	16.08	15.43	15.80	17.90	17.05	17.02	17.76	16.42	17.34	15.83	15.56	15.46
17	15.93	.42	.71	.81	16.95	16.87	.72	.46	.14	.81	.55	.46
18	.83	.40	.64	.79	17.05	.65	.12	.63	16.99	.80	.54	.45
19	.71	.40	.60	18.15	.18	.54	.02	.75	.89	.79	.54	.44
20	.64	.41	.56	17.60	.33	.46	.17	.73	.79	.78	.53	.45
21	15.59	15.44	15.53	17.35	17.28	16.42	17.11	16.63	16.70	15.76	15.53	15.44
22	.55	.47	.51	.09	.22	.35	16.79	.54	.62	.75	.53	.44
23	.52	.49	.51	.19	16.98	.29	.61	.81	.55	.75	.52	.43
24	.50	.50	.47	.33	.79	.35	.50	18.53	.49	.74	.53	.43
25	.50	.50	.50	.44	.66	.42	.73	21.45	.44	.72	.52	.42
26	15.55	15.48	15.47	17.56	16.53	16.71	16.70	21.15	16.39	15.70	15.51	15.42
27	.59	.45	.46	18.27	.43	17.43	.52	19.40	.34	.69	.50	.41
28	.62	.42	.44	.54	.36	18.12	.45	18.36	.30	.69	.49	.41
29	.63	.39	.49	17.95	.30	17.52	.42	17.76	.26	.72		.41
30	.67	.36	.50	.50	.24	.45	.39	.36	.22	.71		.41
31		.34		.61	.23		.34		.18	.69		.40
Mean	15.66	15.47	15.70	16.91	17.36	16.74	16.88	17.21	17.62	15.86	15.57	15.44
Max.	16.33	15.68	16.64	18.54	20.31	18.12	17.76	21.45	22.80	16.15	15.67	15.47
Min.	15.47	15.34	15.31	15.50	16.23	15.99	16.34	16.14	16.18	15.69	15.49	15.40

WATER YEAR 1972 : Max. 22.80 m. Min. 15.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.66	3.48	0.61	1.90	56	13	46	13	* 32	11	3.84	1.66
2	1.74	3.96	0.54	2.67	81	12	45	13	* 27	11	3.72	1.66
3	2.23	3.84	0.47	2.89	130	11	37	12	* 24	10	3.60	1.58
4	2.45	3.12	0.54	4.62	103	9.70	30	11	* 21	9.88	3.48	1.50
5	3.36	2.56	0.54	11	69	8.98	25	12	* 20	9.52	3.36	1.50
6	2.78	2.45	0.54	10	54	8.63	28	14	* 27	8.98	3.24	1.42
7	2.67	2.23	5.75	11	47	9.70	30	20	* 138	8.63	3.12	1.42
8	2.67	1.90	22	9.16	40	42	26	23	* 231	8.29	3.00	1.42
9	4.76	1.66	17	6.95	36	47	22	26	* 297	7.95	3.00	1.34
10	3.24	1.34	12	5.46	35	34	19	36	* 237	7.61	2.89	1.34
11	2.78	1.26	18	4.62	39	28	18	49	* 122	7.27	2.89	1.42
12	2.45	1.10	13	7.61	38	26	18	31	* 83	6.95	2.89	1.42
13	2.34	1.34	12	23	37	25	19	24	* 64	6.65	2.78	1.42
14	12	1.50	10	25	39	28	30	20	* 52	6.35	2.67	1.42
15	15	1.34	7.78	48	35	33	33	19	* 44	6.20	2.56	1.50
16	10	1.34	5.60	52	31	30	48	17	* 37	6.05	2.56	1.58
17	7.61	1.26	4.34	50	28	27	47	18	* 33	5.75	2.45	1.58
18	6.05	1.10	3.48	49	30	22	32	21	* 29	5.60	2.34	1.50
19	4.34	1.10	3.00	59	34	19	30	24	* 27	5.46	2.34	1.42
20	3.48	1.18	2.56	44	37	18	34	24	* 25	5.32	2.23	1.50
21	2.89	1.42	2.23	38	36	17	32	21	* 23	5.04	2.23	1.42
22	2.45	1.66	2.01	32	35	15	25	* 19	* 21	4.90	2.23	1.42
23	2.12	1.82	2.01	34	29	14	21	* 27	* 20	4.90	2.12	1.34
24	1.90	1.90	1.66	37	25	15	19	* 74	* 18	4.76	2.23	1.34
25	1.90	1.90	1.90	40	22	17	24	*188	* 17	4.48	2.12	1.26
26	2.45	1.74	1.66	43	19	23	23	*169	* 16	4.20	2.01	1.26
27	2.89	1.50	1.58	62	17	40	19	* 96	* 15	4.08	1.90	1.18
28	3.24	1.26	1.42	70	16	58	17	* 64	* 14	4.08	1.82	1.18
29	3.36	1.03	1.82	53	14	42	17	* 48	* 13	4.48		1.18
30	3.84	0.82	1.90	42	13	40	16	* 38	13	4.34		1.18
31		0.68		44	13		15		12	4.08		1.10
Total	120.65	54.79	157.94	922.88	1,238	733.01	845	1,171	1,752	203.80	75.62	43.46
Mean	4.02	1.77	5.26	29.8	39.9	24.4	27.2	39.0	56.5	6.57	2.70	1.40
Max.	15	3.96	22	70	130	58	48	188	297	11	3.84	1.66
Min.	1.66	0.68	0.47	1.90	13	8.63	15	11	12	4.08	1.82	1.10
Runoff - MCM.	10.424	4.734	13.646	79.737	106.963	63.332	73.008	101.174	151.373	17.608	6.533	3.755

WATER YEAR 1972 : Max. 297 Min. 0.47 Mean 20.0 Annual Runoff 632.288 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 9	22.00	23.18	336				

KHLONG PHUM DUANG RIVER BASIN

Khlong Phum Duang at Ban Tha Tun, Surat Thani (X6B)

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. - X68

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: 1969-1972.

Rating Operation:

Period of Rating: 1969-1972.
Rated by Float: -
Rated by Current Meter: 1969-1972.

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

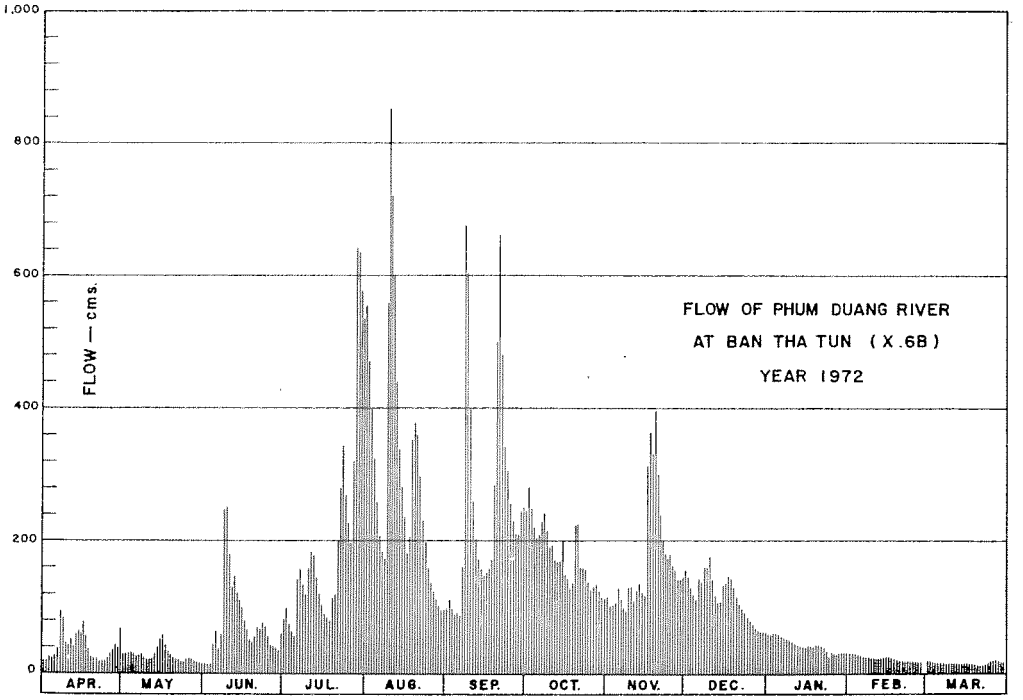
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 192 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.01	1.14	0.97	1.66	4.82	1.81	3.01	1.99	2.35	1.41	1.16	
2	.05	.15	.96	.81	.46	.94	.26	.84	.21	.39	.15	
3	.11	.15	.97	.56	.24	.78	.06	.84	.04	.42	.15	
4	.09	.16	1.27	.41	3.60	.71	2.87	.88	1.97	.43	.14	
5	.12	.14	.44	.37	.10	.76	.69	2.10	.94	.40	.12	
6	1.21	1.10	1.21	2.20	2.80	1.68	2.73	2.03	2.23	1.38	1.11	
7	.78	.13	.39	.35	.56	2.32	.90	1.83	.20	.36	.10	
8	.67	.13	3.02	.14	.47	5.37	.99	.76	.37	.34	.09	
9	.29	.09	.04	1.98	3.93	.04	.76	2.12	.36	.33	.08	
10	.26	.05	2.65	2.31	6.10	3.80	.59	.14	.50	.31	.08	
11	1.34	1.05	2.09	2.54	5.64	3.07	2.62	1.92	2.25	1.29	1.08	
12	.25	.07	.25	.51	4.79	2.67	.45	2.10	1.97	.27	.08	
13	.39	.13	.04	.26	3.94	.47	.41	.17	.88	.26	.09	
14	.45	.23	1.92	.01	.43	.36	.44	.06	.91	.24	.09	
15	.42	.31	.86	1.85	.10	.27	.69	1.98	2.15	.23	.10	
16	1.59	1.39	1.60	1.73	2.75	2.30	2.25	3.32	2.19	1.25	1.10	
17	.34	.27	.44	.64	.51	.32	.22	.79	.26	.25	.09	
18	.17	.19	.34	.60	.80	.45	.09	.59	.23	.24	.08	
19	.09	.13	.30	.93	3.72	3.00	.17	.98	.12	.27	.06	
20	.06	.08	.36	2.01	.89	4.56	.86	.83	1.98	.27	.05	
21	1.07	1.05	1.49	2.60	3.68	5.31	2.88	3.10	1.86	1.25	1.04	
22	.02	.04	.46	.97	.16	4.44	.34	2.72	.77	.23	.04	
23	.03	.02	.55	3.67	2.78	3.64	.36	.52	.71	.19	.04	
24	.03	.01	.51	.43	.52	.44	.33	.47	.66	.09	.03	
25	.06	.06	.33	2.96	.32	.14	.15	.52	.61	.17	.03	
26	1.13	1.08	1.26	2.65	2.16	2.94	2.07	3.39	1.56	1.16	1.02	
27	.20	.07	.24	3.00	.02	.76	.12	.33	.51	.15	.02	
28	.27	.04	.21	4.06	1.91	.74	.18	.20	.47	.15	.02	
29	.24	.01	.20	5.22	.83	3.01	.03	.22	.44	.16		
30	.49	0.99	.36	.18	.78	.06	1.94	.25	.43	.16		
31		.98		4.73	.78		.94		.44	.16		
Mean	1.24	1.11	1.59	2.56	3.24	2.97	2.50	2.43	1.95	1.26	1.08	
Max.	1.78	1.39	3.04	5.22	6.10	5.37	3.26	3.98	2.50	1.43	1.16	
Min.	1.01	0.98	0.96	1.37	1.78	1.68	1.94	1.76	1.43	1.09	1.02	

WATER YEAR 1972 : Max. 6.10 m. Min. 0.96 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	30	14	86	555	100	245	119	159	61	32	20
2	21	31	13	100	483	113	281	103	142	59	31	20
3	27	31	14	76	443	97	252	103	124	62	31	19
4	25	32	44	61	333	90	226	107	117	63	30	18
5	28	30	64	56	258	95	203	130	113	60	28	17
6	37	26	37	141	217	87	208	123	144	58	27	17
7	97	29	59	159	186	155	230	103	141	55	26	16
8	86	29	247	134	174	676	243	95	161	53	25	16
9	47	25	250	118	387	602	212	132	160	52	24	16
10	43	21	197	154	849	365	190	134	178	49	24	16
11	53	21	129	183	739	254	194	111	147	47	24	16
12	42	23	147	179	549	200	171	130	117	44	24	16
13	59	29	124	148	389	174	166	137	107	43	25	16
14	65	40	111	121	306	160	170	126	110	41	25	16
15	62	49	105	104	258	149	203	118	135	40	26	16
16	79	59	80	92	210	153	147	290	139	42	26	16
17	53	44	64	84	179	155	143	363	148	42	25	16
18	33	35	53	80	217	171	129	331	144	41	24	16
19	25	29	48	112	352	244	137	396	132	44	22	15
20	22	24	55	121	380	502	225	370	118	44	21	14
21	23	21	69	191	346	662	227	258	105	42	21	14
22	19	21	66	240	266	480	158	207	96	40	21	14
23	20	19	75	344	214	339	160	181	90	35	21	15
24	20	18	71	306	181	308	156	174	86	25	20	18
25	22	22	52	238	155	264	135	181	81	33	20	18
26	29	24	43	197	136	236	127	164	76	32	19	21
27	36	23	41	244	122	212	132	156	71	31	19	22
28	44	21	37	410	110	209	138	141	67	31	19	20
29	41	18	36	642	102	245	123	143	64	32		19
30	69	16	55	633	97	252	113	147	63	32		17
31		15		536	97		113		64	32		16
Total	1,245	855	2,400	6,290	9,290	7,749	5,557	5,272	3,599	1,365	680	525
Mean	41.5	27.6	80.0	203	300	258	179	176	116	44.0	24.3	16.9
Max.	97	59	250	642	849	676	281	396	178	63	32	22
Min.	18	15	13	56	97	87	113	95	63	25	19	14
Runoff - MCM.	10.568	73.872	207.360	543.456	802.656	669.514	480.125	455.501	310.954	117.936	58.752	45.360

WATER YEAR 1972 : Max. 849 Min. 13 Mean 123 Annual Runoff 3,873.053 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 10	15.00	6.16	864				

KHLONG PHUM DUANG RIVER BASIN

Khlong Phum Duang at Ban Tha Tun, Surat Thani (X6c)

Location: Lat. 9°-03'-57" N., Long. 99°-02'-58" E., on right bank about 100 meters downstream from X68 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. - H.S.

Location: near the automatic gage site.
Elevation: + 9.000 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: 1972 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.

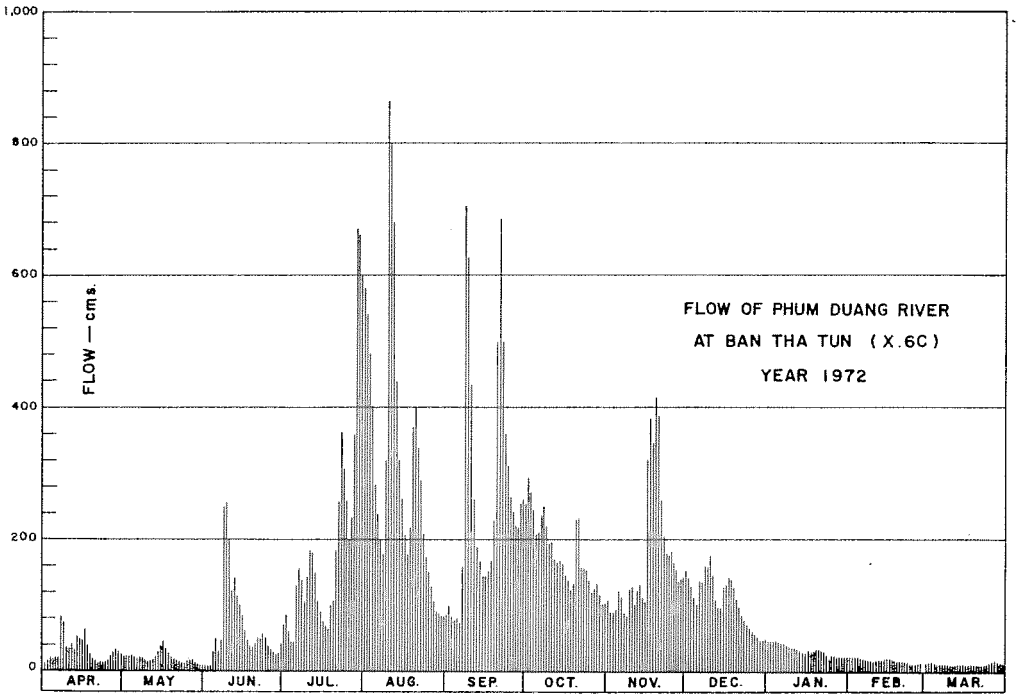
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 192 discharge measurements made in 1973.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.96	1.09	0.92	1.62	4.77	1.76	2.98	1.94	2.32	1.36	1.11	0.98
2	1.00	.10	.91	.76	.41	.89	3.23	.79	.18	.34	.10	.98
3	.06	.10	.92	.51	.19	.73	.03	.79	.00	.37	.10	.99
4	.04	.11	1.22	.36	3.57	.66	2.84	1.83	1.92	.38	.10	.96
5	.07	.09	.39	.31	.08	.71	.66	2.06	1.89	.35	.07	.95
6	1.06	1.05	1.16	2.15	2.76	1.63	2.70	1.98	2.19	1.33	1.06	0.95
7	.73	.08	.34	.33	.53	2.27	.87	.78	.17	.31	.05	.94
8	.62	.08	2.95	.10	.44	5.32	.96	.71	.34	.29	.04	.94
9	.24	.04	.99	1.93	3.89	4.97	.73	2.08	.33	.28	.03	.94
10	.21	.00	.60	2.26	6.00	3.75	.56	.10	.47	.26	.03	.94
11	1.31	1.00	2.05	2.51	5.58	3.03	2.59	1.87	2.22	1.24	1.03	0.94
12	.20	.02	.20	.48	4.72	2.63	.42	2.07	1.92	.22	.03	.93
13	.42	.08	.01	.22	3.59	.43	.38	.14	.83	.21	.04	.94
14	.38	.18	1.88	1.95	.40	.32	.41	.01	.86	.19	.04	.94
15	.37	.26	.81	.81	.07	.23	.36	1.92	2.12	.18	.05	.94
16	1.54	1.34	1.55	1.68	2.72	2.26	2.22	3.29	2.14	1.20	1.05	0.94
17	.29	.22	.39	.59	.48	.28	.19	.76	2.23	.19	.04	.94
18	.12	.14	.29	.55	.77	.41	.05	.55	.20	.19	.03	.94
19	.04	.08	.25	.88	3.69	.96	.14	.93	.09	.22	.01	.93
20	.01	.03	.30	.96	.85	4.49	.83	.79	1.94	.22	.00	.92
21	0.96	1.00	1.43	2.56	3.64	5.24	2.85	3.07	1.81	1.20	0.99	0.92
22	.97	0.99	.40	.93	.11	4.42	.31	2.69	.72	.18	.99	.92
23	.98	.97	.49	3.64	2.73	3.60	.33	.49	.66	.14	.99	.93
24	.98	.96	.45	.40	.47	.40	.30	.44	.61	.04	.98	.96
25	1.01	1.01	.27	2.93	.29	.10	.12	.49	.56	.12	.98	.96
26	1.08	1.03	1.21	2.62	2.13	2.90	2.03	2.36	1.51	1.11	0.97	0.99
27	.15	.02	.19	.97	1.97	.76	.09	.30	.46	.10	.97	1.01
28	.22	0.99	.15	4.04	.80	.73	.15	.17	.42	.10	.97	0.98
29	.19	.96	.14	5.18	.78	.98	.00	.19	.39	.11	-	.97
30	.14	.94	.30	.13	.73	3.03	1.89	.22	.38	.11	-	.95
31	-	.93	-	4.68	.73	-	.89	-	.39	.11	-	.94
Mean	1.19	1.07	2.15	2.85	3.33	3.06	2.47	2.44	1.91	1.21	1.03	0.95
Max.	1.73	1.34	2.99	5.18	6.00	5.32	3.23	3.93	2.47	1.38	1.11	1.01
Min.	0.96	0.93	0.91	1.31	1.73	1.63	1.89	1.71	1.38	1.04	0.97	0.92

WATER YEAR 1972 : Max. 6.00 m. Min. 0.91 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	23	9.60	73	584	88	254	109	158	47	25	14
2	16	24	8.80	88	510	103	293	91	138	46	24	14
3	21	24	9.60	62	466	84	261	91	116	48	24	15
4	19	25	35	47	351	77	233	96	106	49	24	13
5	22	23	50	43	269	82	206	123	103	46	22	12
6	21	20	29	134	221	74	212	114	140	45	21	12
7	84	22	46	159	187	151	237	90	137	43	20	11
8	73	22	249	128	175	705	251	82	161	41	19	11
9	37	19	255	108	408	626	216	126	159	40	18	11
10	34	16	197	149	865	383	191	128	179	38	18	11
11	43	16	122	184	764	261	196	100	144	37	18	11
12	33	18	141	180	573	201	172	124	106	35	18	10
13	53	22	117	144	354	173	166	133	96	34	19	11
14	49	31	102	110	320	158	170	117	99	32	19	11
15	48	38	93	93	267	145	163	106	131	31	20	11
16	65	46	66	79	215	149	144	302	133	33	20	11
17	41	35	50	70	180	152	140	385	145	32	19	11
18	26	28	41	66	222	170	122	347	141	32	18	11
19	19	22	37	102	372	251	133	416	127	35	17	10
20	17	18	42	111	401	526	231	390	109	35	16	9.60
21	13	16	54	191	363	686	234	267	93	33	15	9.60
22	14	15	51	246	274	512	156	210	83	31	15	9.60
23	14	14	60	363	216	356	159	182	77	28	15	10
24	14	13	56	320	179	320	155	175	72	19	14	13
25	17	17	39	246	154	272	131	182	67	26	14	13
26	22	18	34	200	132	242	120	163	62	25	14	15
27	28	18	32	252	112	221	127	155	57	24	14	17
28	35	15	28	437	92	216	134	137	53	24	14	14
29	32	13	28	673	90	254	116	140	50	25	–	14
30	28	11	42	662	84	261	103	144	49	25	–	12
31	–	10	–	565	84	–	103	–	50	25	–	11
Total	951	652	2,124.00	6,285	9,484	7,899	5,529	5,225	3,341	1,064	514	368.80
Mean	31.7	21.0	70.8	203	306	263	178	174	108	34.3	18.3	11.9
Max.	84	46	255	673	865	705	293	416	179	49	25	17
Min.	13	10	8.80	43	84	74	103	82	49	19	14	9.60
Runoff - mcm.	82.166	56.333	183.514	543.024	819.418	682.474	477.706	451.440	288.662	91.930	44.410	31.864

WATER YEAR 1972 : Max. 865 Min. 8.80 Mean 119 Annual Runoff 3,752.939 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.10,	15.00	6.16	907				

TA PI RIVER BASIN

Ta Pi River at Thung Luang, Surat Thani (X37A)

Location: Lat. 8°-34'-03" N., Long. 99°-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: 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 for flow computation.

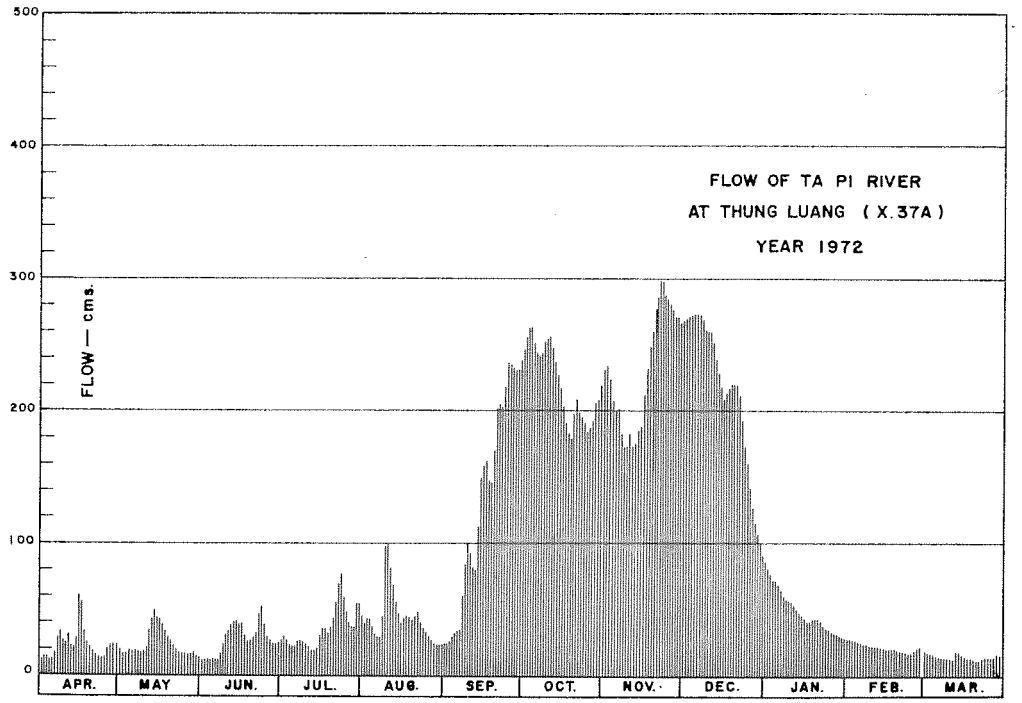
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 278 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S. L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.48	5.67	5.48	5.81	6.25	5.77	9.75	9.59	9.96	7.11	5.90	5.65
2	.54	.60	.46	.90	.17	.81	.84	.63	.97	.00	.90	.62
3	.54	.61	.46	.94	.25	.83	.92	.50	.99	6.91	.88	.63
4	.51	.63	.47	.85	.22	.89	.92	.29	10.00	.83	.86	.60
5	.50	.68	.49	.76	.05	.98	.82	.14	.01	.82	.84	.57
6	5.62	5.64	5.47	5.73	5.95	6.02	9.73	9.16	10.01	6.74	5.83	5.55
7	.91	.67	.48	.81	.89	.05	.70	8.96	.01	.67	.81	.53
8	6.02	.64	.55	.85	.91	.32	.71	.71	9.99	.60	.79	.52
9	5.85	.63	.72	.84	6.32	7.04	.81	.70	.92	.55	.78	.52
10	.80	.63	.93	.79	7.33	.04	.83	.87	.89	.52	.77	.52
11	0.98	5.69	6.00	5.75	7.39	7.21	9.86	8.76	9.89	6.49	5.76	5.51
12	.82	.97	.07	.71	6.94	6.98	.81	.72	.83	.44	.75	.51
13	.70	6.19	.16	.67	.61	.97	.71	.75	.72	.38	.75	.64
14	.87	.32	.19	.65	.37	7.60	.59	.92	.56	.32	.73	.64
15	6.58	.27	.14	.69	.24	8.31	.46	.95	.37	.29	.72	.57
16	6.48	6.24	6.10	5.88	6.17	8.45	9.28	9.14	9.27	6.25	5.71	5.55
17	.02	.19	5.99	6.08	.24	.52	.01	.50	.31	.21	.70	.53
18	5.86	.07	.87	.07	.28	.30	8.88	.71	.38	.22	.71	.51
19	.76	5.95	.81	5.99	.25	.25	.81	.89	.44	.23	.70	.50
20	.67	.84	.85	6.10	.21	.65	9.06	10.03	.45	.27	.68	.49
21	5.59	5.76	5.91	6.22	6.29	9.16	9.27	10.15	9.44	6.24	5.67	5.48
22	.56	.69	.98	.38	.33	.22	.17	.20	.35	.19	.66	.50
23	.53	.63	6.30	.71	.24	.19	.08	.20	.15	.13	.65	.56
24	.51	.59	.41	.90	.13	.31	.07	.17	8.84	.09	.62	.53
25	.52	.57	.18	.65	.03	.52	8.95	.14	.52	.05	.60	.52
26	5.68	5.58	5.92	6.38	5.95	9.64	8.87	10.11	8.22	6.02	5.62	5.51
27	.75	.57	.86	.19	.87	.60	.98	.05	7.96	.00	.68	.52
28	.77	.57	.81	.11	.82	.57	9.09	9.99	.73	5.98	.76	.59
29	.75	.63	.78	.11	.78	.58	.25	.99	.54	.96		.59
30	.75	.58	.77	.46	.76	.61	.29	.95	.37	.92		.58
31		.52		.46	.77		.40		.23	.91		.56
Mean	5.75	5.79	5.85	6.05	6.23	7.86	9.42	9.49	9.24	6.36	5.74	5.55
Max.	6.58	6.32	6.41	6.90	7.39	9.64	9.92	10.20	10.01	7.11	5.90	5.65
Min.	5.48	5.52	5.46	5.65	5.76	5.77	8.81	8.70	7.23	5.91	5.60	5.48

WATER YEAR 1972 : Max. 10.20 m. Min. 5.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	20	12	25	44	24	246	232	268	87	29	19
2	15	17	12	29	40	25	255	236	269	82	29	18
3	15	17	12	31	44	26	263	225	271	77	28	18
4	13	18	12	27	43	29	263	210	272	73	27	17
5	13	20	13	23	35	32	253	200	273	73	27	16
6	18	19	12	22	31	34	245	201	273	69	26	15
7	29	20	12	25	29	35	242	189	273	65	25	14
8	34	19	15	27	29	48	243	174	271	62	25	14
9	27	18	22	27	48	84	252	173	263	59	24	14
10	25	18	30	25	98	99	254	183	260	58	24	14
11	32	21	33	23	101	92	257	177	260	56	23	13
12	26	32	36	21	79	81	252	174	254	54	23	13
13	21	41	40	20	62	80	243	176	244	52	23	19
14	28	48	41	19	51	112	232	186	230	48	22	19
15	61	45	39	21	44	150	222	188	217	46	22	16
16	56	44	39	28	40	158	210	200	209	44	21	15
17	34	41	34	36	44	162	192	225	212	42	21	14
18	27	36	28	36	46	149	184	243	218	43	21	13
19	23	31	25	33	44	146	180	260	221	43	21	13
20	20	27	27	37	42	170	194	276	221	45	20	13
21	17	23	29	43	46	201	209	286	221	44	20	12
22	15	21	32	52	48	205	202	298	215	41	19	13
23	14	18	47	67	44	203	196	298	200	38	19	15
24	13	17	52	77	38	212	195	288	181	37	18	14
25	14	16	41	64	34	227	188	285	162	35	17	14
26	20	16	30	52	31	237	183	281	144	34	18	13
27	23	16	27	41	28	233	190	278	130	33	20	14
28	24	16	25	37	26	231	196	271	118	32	23	17
29	23	18	24	37	24	231	207	271	109	31		17
30	23	16	24	55	23	234	210	266	100	30		16
31		14		55	24		218		93	29		15
Total	715	743	823	1,115	1,360	3,950	6,876	6,950	6,652	1,562	635	467
Mean	23.8	24.0	27.4	36.0	43.9	132	222	232	214	50.4	22.7	15.1
Max.	61	48	52	77	101	237	263	298	273	87	29	19
Min.	12	14	12	19	23	24	180	173	93	29	17	12
Runoff - MCM.	61.776	64.195	71.107	96.336	117.504	341.280	594.086	600.480	574.733	134.957	54.864	40.349

WATER YEAR 1972 : Max. 298 Min. 12 Mean 87.2 Annual Runoff 2,751.667 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 23,	07.00	10.20	298				

PHUM DUANG RIVER BASIN

Phum Duang River at Ban Yan Lon, Surat Thani (X38)

Location: Lat. 8°-53'-51" N., Long. 98°-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.

Drainage Area: 2,690 Sq.km.

Type of Gage: Water-stage recorder.

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 on January - March. Recording from April - December.

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

Period of Available Gage Records: 1963-1975

Rating Operation:

Period of Rating: 1964-1969, 1972-1975.
Rated by Float: -
Rated by Current Meter: 1964-1969, 1972-1975.

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

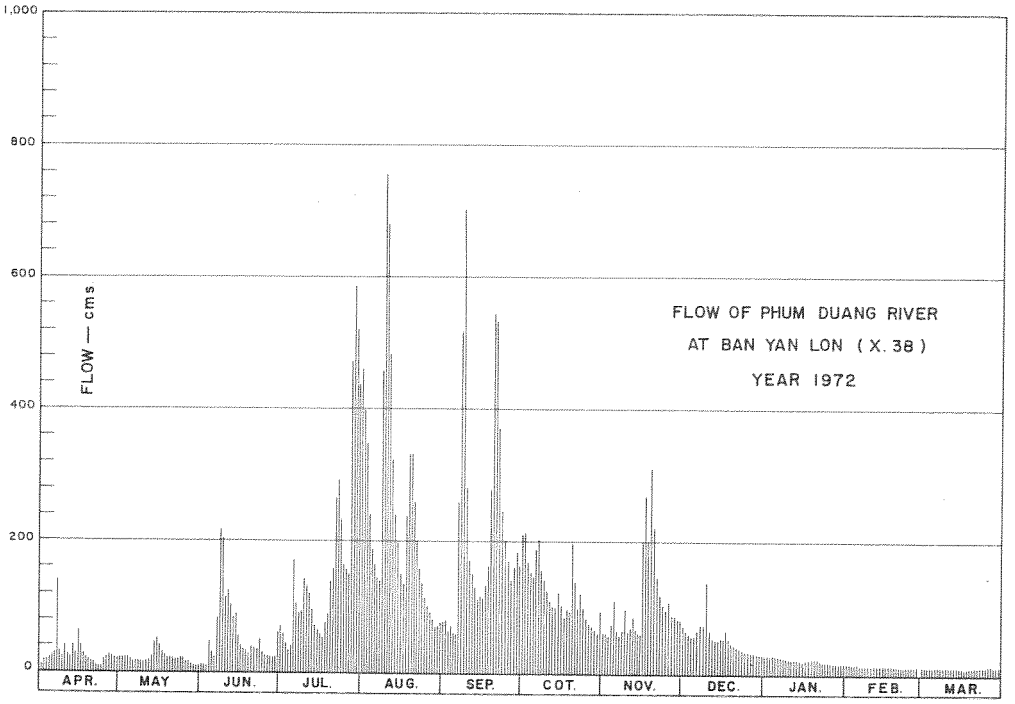
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 31 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.70	4.97	4.74	5.81	9.62	5.91	7.43	5.75	5.85	5.11	4.85	4.72
2	.90	.99	.75	.59	.05	.94	.45	.68	.73	.10	.85	.70
3	.91	.98	.74	.40	8.63	.71	.04	.63	.66	.09	.84	.69
4	.94	.99	5.47	.24	7.69	.83	6.88	.82	.61	.11	.83	.69
5	5.03	.95	.13	.35	.18	.69	.75	6.33	.56	.10	.82	.68
6	5.13	4.85	5.00	7.02	6.89	5.64	7.14	5.74	5.71	5.07	4.81	4.68
7	6.66	.89	6.13	6.30	.71	8.33	.33	.63	.71	.05	.81	.67
8	5.14	.91	7.49	.09	.65	11.43	.01	.76	.87	.04	.80	.67
9	4.99	.90	.34	.10	10.90	9.18	6.78	6.17	.83	.03	.80	.66
10	5.37	.90	6.36	.72	11.81	7.77	.56	5.70	6.64	.02	.79	.67
11	5.10	4.91	6.48	6.62	10.36	7.10	6.45	5.79	5.72	5.00	4.78	4.67
12	.06	.92	.33	.45	9.05	6.77	.22	6.02	.59	.00	.78	.68
13	.43	5.00	5.99	.11	8.06	.54	.20	5.76	.52	4.98	.78	.69
14	.13	.44	6.08	5.87	7.66	.32	.25	.70	.53	.98	.77	.69
15	.73	.54	5.65	.78	.22	.43	.46	.63	.57	.98	.76	.68
16	5.35	5.37	5.39	5.65	6.79	6.38	6.25	7.32	5.56	4.98	4.76	4.68
17	.09	.20	.26	.56	.62	.51	5.99	.99	.73	.78	.76	.67
18	4.96	.09	.20	.77	7.60	.67	6.16	.31	.59	5.00	.76	.65
19	.93	.00	.15	6.09	8.58	7.33	.12	8.39	.46	.03	.75	.65
20	.90	4.98	.32	.63	.59	10.31	7.30	7.44	.39	4.98	.75	.65
21	4.86	4.96	5.28	6.86	7.93	10.22	6.53	6.77	5.35	5.01	4.74	4.64
22	.68	.95	.20	7.97	.30	8.64	.15	.53	.31	4.94	.73	.67
23	.66	.93	.51	8.22	6.90	7.81	.44	.27	.28	.93	.73	.70
24	.66	.98	.19	7.57	.59	.72	.20	.18	.24	.91	.72	.72
25	.95	.98	.08	6.95	.37	.15	.01	.25	.22	.90	.72	.71
26	4.98	4.84	5.06	6.86	6.19	6.85	5.91	6.33	5.21	4.89	4.71	4.78
27	5.07	.87	.03	7.80	.07	.67	.80	.03	.19	.89	.70	.76
28	.04	.80	.00	9.75	5.92	.82	.79	.02	.17	.88	.74	.73
29	4.97	.73	.03	10.61	.83	7.15	.75	5.98	.15	.88	-	.72
30	.95	.70	.68	.02	.82	6.92	.66	.96	.14	.86	-	.70
31	-	.66	-	9.48	.89	-	6.12	-	.12	.85	-	.70
Mean	5.07	4.97	5.53	6.85	7.63	7.26	6.45	6.26	5.52	4.99	4.77	4.69
Max.	6.66	5.54	7.49	10.61	11.81	11.43	7.45	8.39	6.64	5.11	4.85	4.78
Min.	4.66	4.66	4.74	5.24	5.82	5.64	5.66	5.63	5.12	4.85	4.70	4.64

WATER YEAR 1972 : Max. 11.81 m. Min. 4.64 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	22	13	72	457	79	213	67	74	29	17	12
2	19	23	13	56	387	81	215	63	66	29	17	11
3	19	23	13	45	339	65	175	59	61	28	17	11
4	21	23	49	36	238	73	161	72	58	29	16	11
5	25	21	30	42	188	63	149	112	55	29	16	11
6	30	17	24	173	162	60	184	67	65	27	15	11
7	141	19	96	110	145	306	202	59	65	26	15	10
8	31	19	218	93	140	702	172	68	76	26	15	10
9	23	19	203	94	628	403	152	100	73	25	15	10
10	43	19	115	146	756	246	132	64	139	25	15	10
11	29	19	125	135	554	180	122	70	65	24	14	10
12	27	20	112	122	387	151	104	88	56	24	14	11
13	47	24	85	95	276	130	102	68	52	23	14	11
14	30	47	92	76	235	112	106	64	53	23	14	11
15	66	53	60	70	192	120	123	59	55	23	14	11
16	42	43	44	60	153	116	106	201	55	23	14	11
17	28	34	37	55	137	127	85	269	66	23	14	10
18	22	28	34	69	229	142	99	200	56	24	14	9.75
19	20	24	31	93	333	202	96	312	49	25	13	9.75
20	19	23	40	138	334	547	199	214	44	23	13	9.75
21	17	22	38	159	263	535	129	151	42	24	13	9.40
22	11	21	34	267	199	340	98	129	40	21	12	10
23	10	20	52	294	162	250	121	108	38	20	12	11
24	10	23	33	226	135	241	102	100	36	20	12	12
25	21	23	28	167	116	185	87	106	35	19	12	12
26	23	17	27	159	101	158	79	112	34	19	12	14
27	27	18	25	249	92	142	71	88	33	19	11	14
28	26	15	24	473	80	155	70	88	32	18	13	12
29	22	12	25	587	73	185	67	84	31	18	–	12
30	21	11	63	509	72	164	61	83	31	17	–	11
31	–	10	–	439	77	–	96	–	30	17	–	11
Total	881	712	1,783	5,309	7,640	6,260	3,878	3,325	1,665	720	393	339.65
Mean	29.4	23.0	59.4	171	246	209	125	111	53.7	23.2	14.0	10.9
Max.	141	53	218	587	756	702	215	312	139	29	17	14
Min.	10	10	13	36	72	60	61	59	30	17	11	9.40
Runoff - mcm.	76.118	61.517	154.051	458.698	660.096	540.864	335.059	287.280	143.856	62.208	33.955	29.346

WATER YEAR 1972 : Max. 756 Min. 9.40 Mean 90.1 Annual Runoff 2,843.048 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.19,	02.00	12.22	816				

PHUM DUANG RIVER BASIN

Khlong Saeng at Ban Khao Phang, Surat Thani (X39)

Location: Lat. 8°-57'-07" N., Long. 98°-48'-53" E., on left bank at Ban Khao Phang, Amphoe Khiri Ratthanikhom, Surat Thani.

Drainage Area: 1,437 Sq.km.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 8.550 m. (M.S.L.)

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

Location: about 10 meters above measuring line.
Elevation: + 21.675 m. (M.S.L.)

Gage Reading Frequency: 14-time daily readings at 06.00-18.00 and 21.00 hours on August - March. Recording from April - July.

Basis of Mean Daily Gage Height: Arithmetic mean of 14 and 24 hourly readings.

Period of Available Gage Records: 1964 to date.

Rating Operation:

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

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

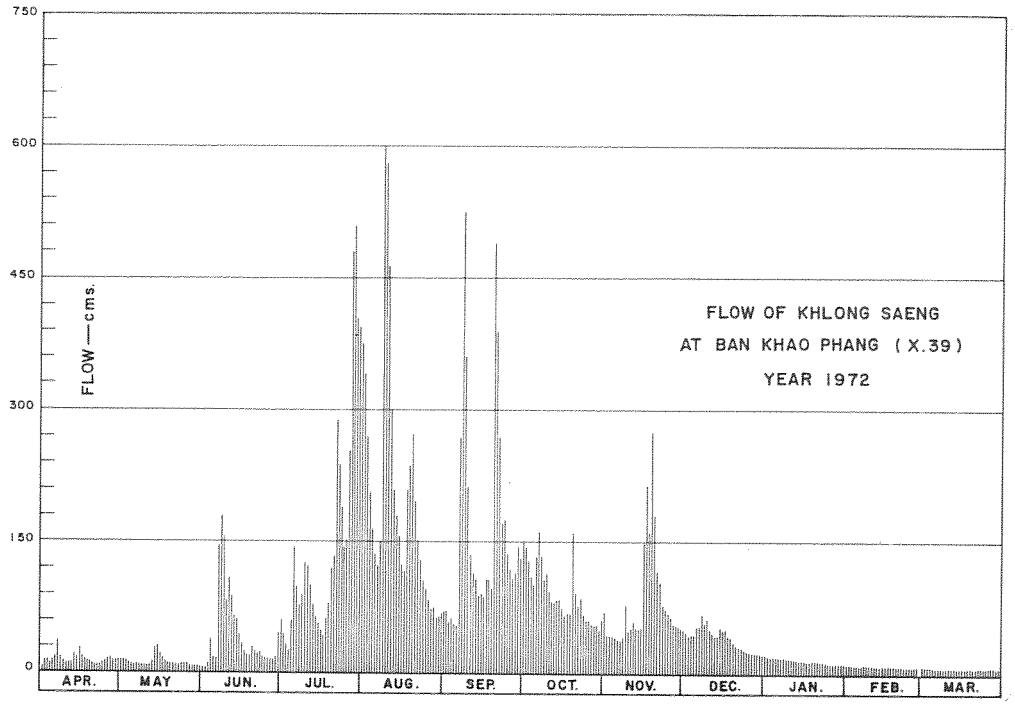
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 192 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	9.22	9.40	9.20	10.25	13.32	10.43	11.36	10.42	10.06	9.56	9.33	9.24
2	.37	.39	.21	.02	.00	.41	.28	9.99	.01	.55	.33	.22
3	.37	.39	.32	9.78	12.36	.23	.09	.99	9.97	.54	.32	.21
4	.33	.38	.87	.67	11.76	.32	10.89	.97	.96	.54	.31	.21
5	.39	.33	.50	10.10	.40	.19	.80	.94	.99	.53	.31	.20
6	9.52	9.27	9.45	11.29	11.16	10.13	11.05	9.92	10.15	9.51	9.30	9.20
7	.88	.31	11.28	10.75	.05	13.35	.22	.88	.13	.50	.30	.20
8	.49	.28	.64	.50	.43	14.37	.17	.95	.34	.49	.30	.20
9	.38	.27	.55	.65	14.85	12.43	10.86	10.50	.21	.48	.29	.20
10	.33	.24	10.55	11.08	.67	11.63	.95	.06	.29	.47	.29	.20
11	9.33	9.24	10.89	11.05	13.59	11.17	10.69	10.12	10.08	9.46	9.28	9.19
12	.39	.27	.65	10.90	12.60	10.94	.55	.24	.00	.45	.28	.19
13	.58	.37	.34	.57	11.96	.85	.57	.14	9.97	.44	.27	.19
14	.50	.70	.27	.38	.72	.64	.58	.11	.99	.43	.27	.19
15	.75	.77	.02	.25	.37	.70	.59	.14	10.12	.43	.26	.19
16	9.55	9.65	9.81	10.10	11.06	10.62	10.41	11.25	10.07	9.42	9.26	9.19
17	.48	.50	.69	.00	10.98	.88	.31	12.00	.08	.41	.26	.19
18	.37	.41	.60	.28	12.01	.87	.40	11.46	9.96	.43	.26	.18
19	.38	.33	.56	.47	.29	11.85	.36	12.52	.92	.43	.26	.18
20	.31	.31	.79	11.02	.51	14.13	11.46	11.40	.82	.43	.26	.18
21	9.26	9.30	9.68	11.17	11.88	13.14	10.68	10.99	9.78	9.43	9.25	9.17
22	.24	.29	.60	12.63	.43	12.06	.47	.81	.74	.40	.25	.20
23	.26	.27	.64	.34	.14	11.56	.59	.53	.72	.39	.24	.22
24	.36	.32	.52	11.80	10.92	.62	.36	.43	.69	.38	.23	.21
25	.40	.33	.49	.28	.74	.20	.25	.34	.67	.37	.23	.20
26	9.45	9.32	9.47	11.36	10.59	11.07	10.24	10.31	9.65	9.36	9.22	9.21
27	.50	.28	.45	12.28	.46	10.91	.19	.18	.63	.35	.23	.22
28	.43	.26	.45	14.08	.47	11.00	.17	.17	.62	.35	.24	.23
29	.40	.24	.52	.26	.30	.29	.16	.14	.60	.35	-	.19
30	.40	.24	10.01	13.49	.32	.13	.09	.10	.58	.34	-	.18
31	-	.21	-	.45	.37	-	.24	-	.57	.33	-	.19
Mean	9.42	9.35	9.93	11.27	11.73	11.37	10.65	10.47	9.91	9.44	9.27	9.20
Max.	9.88	9.77	11.64	14.26	14.85	14.37	11.46	12.52	10.34	9.56	9.33	9.24
Min.	9.22	9.21	9.20	9.67	10.30	10.13	10.09	9.88	9.57	9.33	9.22	9.17

WATER YEAR 1972 : Max. 14.85 m. Min. 9.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.60	15	8.00	61	377	74	152	73	50	22	12	9.20
2	14	15	8.30	47	333	73	145	45	47	21	12	8.60
3	14	15	12	33	256	60	128	45	44	21	12	8.30
4	12	14	38	27	191	66	110	44	44	21	11	8.30
5	15	12	19	52	156	57	103	42	45	20	11	8.00
6	20	10	17	146	134	54	124	41	55	19	11	8.00
7	39	11	145	99	124	381	160	39	54	19	11	8.00
8	19	10	179	79	159	525	135	43	68	19	11	8.00
9	14	10	170	91	600	265	108	79	59	18	11	8.00
10	12	9.20	83	127	571	178	115	50	64	18	11	8.00
11	12	9.20	110	124	415	135	94	53	51	17	10	7.70
12	15	10	91	111	285	115	83	61	46	17	10	7.70
13	23	14	68	85	211	107	85	54	44	17	10	7.70
14	19	29	63	71	187	90	85	53	45	16	10	7.70
15	31	32	47	61	153	95	86	54	53	16	9.80	7.70
16	21	26	35	52	125	89	73	142	50	16	9.80	7.70
17	18	19	28	46	118	109	66	215	51	15	9.80	7.70
18	14	15	24	64	216	109	72	161	44	16	9.80	7.40
19	14	12	22	77	248	198	69	275	41	16	9.80	7.40
20	11	11	33	122	274	490	161	156	35	16	9.80	7.40
21	9.80	11	28	135	203	352	93	119	33	16	9.50	7.10
22	9.20	11	24	289	159	221	77	104	31	15	9.50	8.00
23	9.80	10	26	254	133	171	86	81	30	15	9.20	8.60
24	13	12	20	195	113	177	69	74	28	14	8.90	8.30
25	15	12	19	145	98	138	61	68	27	14	8.90	8.00
26	17	12	18	152	86	126	61	66	26	13	8.60	8.30
27	19	10	17	247	76	112	57	57	25	13	8.90	8.60
28	16	9.80	17	483	77	120	56	56	25	13	9.20	8.90
29	15	9.20	20	509	65	146	56	54	24	13	–	7.70
30	15	9.20	47	401	66	132	51	52	23	13	–	7.40
31	–	8.30	–	395	70	–	61	–	22	12	–	7.70
Total	484.40	412.90	1,436.30	4,780	6,279	4,965	2,882	2,456	1,284	511	284.50	247.10
Mean	16.1	13.3	47.9	154	202	165	93.0	81.9	41.4	16.5	10.2	7.97
Max.	39	32	179	509	600	525	161	275	68	22	12	9.20
Min.	8.60	8.30	8.00	27	65	54	51	39	22	12	8.60	7.10
Runoff - mcm.	41.852	35.674	124.096	412.992	542.506	428.976	249.005	212.198	110.938	44.150	24.581	21.349

WATER YEAR 1972 : Max. 600 Min. 7.10 Mean 71.3 Annual Runoff 2,248.318 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 9,	18.00	16.15	813				

PHUM DUANG RIVER BASIN

Khlong Sok at Ban Song Pi Nong, Surat Thani (X51)

Location: Lat. 8°-50'-39" N., Long. 98°-44'-39" E., on left bank at Ban Song Pi Nong, Amphoe Phanom, Surat Thani.

Drainage Area: 431 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 on left bank near the staff gage, BM2 on left bank under the ceiba tree.
Elevation: BM1 = + 9.199 m. (A.D., BM2 = + 9.516 m. (A.D.)

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

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

Period of Available Gage Records: 1972 to date

Rating Operation:

Period of Rating: 1972 to date
Rated by Float: -
Rated by Current Meter: 1972 to date

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

Overbank Flow Condition:

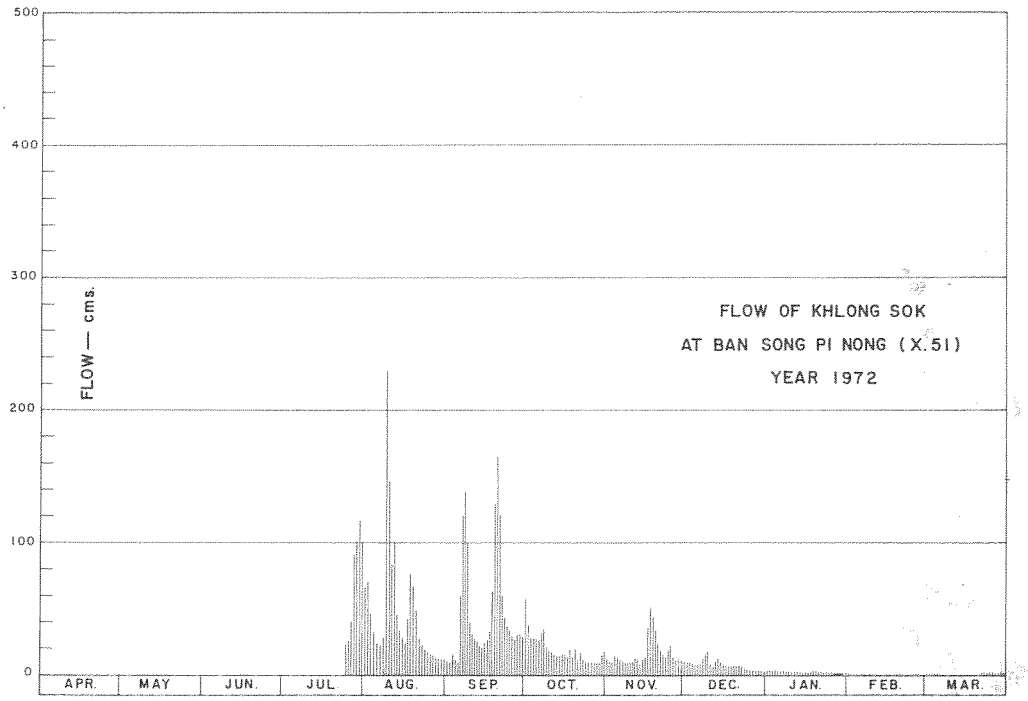
General Description: Records fair. Stage-discharge relation defined by 24 discharge measurements made in 1972.

Remarks: Stream gaging began on July 25, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					2.55	0.85	2.32	0.80	0.73	0.31	0.18	0.07
2					.64	.75	1.85	.73	.68	.30	.17	.07
3					.05	.68	.40	.70	.66	.29	.16	.06
4					1.70	.96	.40	.96	.64	.29	.16	.06
5					.45	.74	.40	.88	.60	.29	.15	.05
6					1.30	0.70	1.35	0.79	0.55	0.28	0.14	0.05
7					.22	3.75	.50	.72	.71	.28	.13	.04
8					.41	4.18	.65	.63	.99	.28	.13	.04
9					5.83	3.35	.19	.69	1.05	.27	.12	.03
10					4.78	1.80	.11	.66	0.64	.27	.12	.03
11					2.93	1.51	1.05	0.73	0.44	0.26	0.12	0.03
12					3.32	.38	.03	.90	.65	.26	.12	.01
13					1.95	.32	0.93	.85	.82	.25	.11	.08
14					.68	.19	.95	.60	.72	.25	.11	.06
15					.48	.19	1.00	.80	.64	.24	.11	.05
16					1.31	1.30	0.97	0.90	0.57	0.24	0.11	0.04
17					.56	.40	.84	1.75	.50	.23	.10	.03
18					2.78	.72	1.14	2.15	.53	.23	.10	.03
19					.64	3.53	0.93	1.90	.56	.30	.14	.05
20					.43	4.70	1.15	.50	.57	.29	.11	.05
21					1.83	4.15	0.80	1.20	0.58	0.28	0.10	0.11
22					.35	2.45	1.05	.03	.58	.27	.10	.07
23					.19	1.95	0.78	0.96	.41	.26	.09	.20
24					.12	.76	.69	.86	.39	.25	.08	.12
25				1.28	.07	.62	.68	1.20	.38	.24	.08	.17
26				1.34	1.03	1.49	0.70	0.92	0.37	0.23	0.07	0.19
27				1.79	0.92	.36	.67	.88	.36	.22	.07	.13
28				3.13	.87	.51	.67	.84	.35	.21	.07	.13
29				.42	.83	.55	.64	.80	.34	.20	-	.15
30				.72	.77	.40	.85	.79	.33	.19	-	.12
31				.50	.73	-	1.05	-	.32	.18	-	.09
Mean					1.89	1.87	1.15	0.93	0.57	0.26	0.12	0.08
Max.					5.83	4.70	2.32	2.15	1.05	0.31	0.18	0.20
Min.					0.73	0.68	0.64	0.60	0.32	0.18	0.07	0.01

WATER YEAR 1972 : Max. 5.83 m. Min. 0.01 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1					67	13	58	13	11	4.13	2.48	1.36
2					71	11	41	11	10	4.00	2.37	1.36
3					48	10	28	10	9.70	3.87	2.26	1.28
4					37	16	28	16	9.30	3.87	2.26	1.28
5					29	11	28	14	8.50	3.87	2.15	1.20
6					25	10	26	12	7.65	3.74	2.04	1.20
7					23	119	31	11	11	3.74	1.93	1.12
8					28	139	35	9.10	16	3.74	1.93	1.12
9					229	101	22	10	18	3.61	1.82	1.04
10					170	40	19	9.70	9.30	3.61	1.82	1.04
11					83	31	18	11	5.90	3.48	1.82	1.04
12					100	27	17	14	9.50	3.48	1.82	0.88
13					45	26	15	13	13	3.35	1.71	1.52
14					36	21	15	8.50	11	3.35	1.71	1.28
15					30	22	16	12	9.30	3.22	1.71	1.20
16					25	25	16	14	7.99	3.22	1.71	1.12
17					33	28	13	38	6.80	3.09	1.60	1.04
18					77	38	20	52	7.31	3.09	1.60	1.04
19					71	109	15	43	7.81	4.00	2.04	1.20
20					63	166	20	31	7.99	3.87	1.71	1.20
21					41	137	12	22	8.16	3.74	1.60	1.71
22					26	63	18	17	8.16	3.61	1.60	1.36
23					22	45	12	16	5.45	3.48	1.52	2.70
24					20	39	10	14	5.17	3.35	1.44	1.82
25				24	18	35	10	22	5.04	3.22	1.44	2.37
26				26	17	31	10	15	4.91	3.09	1.36	2.59
27				40	15	27	9.90	14	4.78	2.96	1.36	1.93
28				91	14	31	9.90	13	4.65	2.83	1.36	1.93
29				104	13	32	9.30	12	4.52	2.70	—	2.15
30				118	12	28	13	12	4.39	2.59	—	1.82
31				108	11	—	18	—	4.26	2.48	—	1.52
Total					1,499	1,431	613.10	509.30	256.55	106.38	50.17	45.42
Mean					48.3	47.7	19.8	17.0	8.27	3.43	1.79	1.46
Max.					229	166	58	52	18	4.13	2.48	2.70
Min.					11	10	9.30	8.50	4.26	2.48	1.36	0.88
Runoff — mcm.					129.514	123.638	52.972	44.003	22.166	9.191	4.335	3.924

WATER YEAR 1972 : Max. 229 Min. 0.88 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 9, 72	18.00	6.20	251				

PHUM DUANG RIVER BASIN

Huai Chong Lom at Ban Chong Lom, Surat Thani (X.57)

Location: Lat. 8°-53'-10" N., Long. 98°-41'-27" E., on left bank downstream side of the concrete bridge on Takuapa – Surat Thani highway, Amphoe Phanom, Surat Thani.

Drainage Area: 8 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 on left bank about 6 meters, BM2 on left bank about 13 meters from gage site.
Elevation: BM1 = + 3.183 m. (A.D.), BM2 = + 3.262 m. (A.D.)

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

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

Period of Available Gage Records: 1972 to date.

Rating Operation:

Period of Rating: 1972-1974
Rated by Float: –
Rated by Current Meter: 1972-1974

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

Overbank Flow Conditions: No overbank flow.

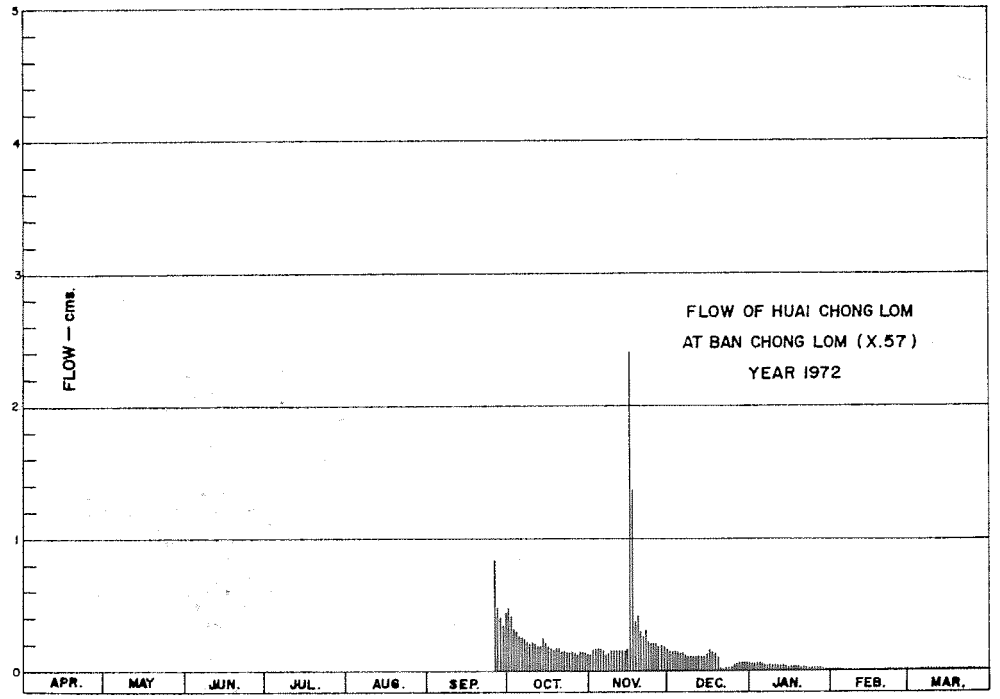
General Description: Records good. Stage-discharge relation defined by 9 discharge measurements made in 1972.

Remarks: Stream gaging began on September 26, 1972. Discharge record for periods of no flow are omitted.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							0.83	0.62	0.65	0.56	0.51	0.48
2							.81	.65	.64	.56	.51	.47
3							.74	.66	.64	.56	.51	.47
4							.74	.67	.64	.57	.51	.47
5							.72	.66	.62	.57	.51	.47
6							0.72	0.65	0.64	0.56	0.51	0.47
7							.71	.61	.62	.55	.51	.46
8							.70	.63	.62	.55	.50	.46
9							.68	.65	.62	.55	.49	.45
10							.70	.65	.62	.55	.49	.45
11							0.69	0.65	0.62	0.55	0.49	0.46
12							.67	.65	.62	.55	.49	.45
13							.67	.65	.61	.55	.49	.45
14							.71	.65	.61	.55	.48	.45
15							.70	.65	.62	.54	.48	.45
16							0.67	1.41	0.65	0.54	0.48	0.45
17							.66	.01	.64	.54	.48	.45
18							.64	0.75	.63	.55	.48	.45
19							.67	.80	.63	.54	.48	.45
20							.67	.74	.52	.54	.48	.45
21							0.65	0.72	0.51	0.54	0.48	0.48
22							.65	.75	.52	.53	.48	.45
23							.64	.70	.53	.52	.47	.46
24							.63	.69	.53	.53	.47	.46
25							.64	.69	.55	.53	.47	.47
26						0.97	0.63	0.69	0.56	0.53	0.47	0.49
27						.82	.62	.67	.56	.53	.48	.47
28						.79	.64	.68	.57	.52	.48	.46
29						.76	.63	.68	.57	.52	–	.48
30						.80	.63	.66	.57	.51	–	.48
31						–	.63	–	.57	.51	–	.46
Mean							0.68	0.71	0.60	0.54	0.48	0.46
Max.							0.83	1.41	0.65	0.57	0.51	0.49
Min.							0.62	0.61	0.51	0.51	0.47	0.45

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



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							0.49	0.12	0.16	0.06	0.010	0.00
2							0.44	0.16	0.15	0.06		
3							0.30	0.17	0.15	0.06		
4							0.30	0.18	0.15	0.07		
5							0.26	0.17	0.12	0.07		
6							0.26	0.16	0.15	0.06		
7							0.24	0.11	0.12	0.05		
8							0.22	0.14	0.12	0.05	0.00	
9							0.20	0.16	0.12	0.05		
10							0.22	0.16	0.12	0.05		
11							0.21	0.16	0.12	0.05		
12							0.18	0.16	0.12	0.05		
13							0.18	0.16	0.11	0.05		
14							0.24	0.16	0.11	0.05		
15							0.22	0.16	0.12	0.04		
16							0.18	2.41	0.16	0.04		
17							0.17	0.95	0.15	0.04		
18							0.15	0.32	0.14	0.05		
19							0.18	0.42	0.14	0.04		
20							0.18	0.30	0.02	0.04		
21							0.16	0.26	0.01	0.04		
22							0.16	0.32	0.02	0.03		
23							0.15	0.22	0.03	0.02		
24							0.14	0.21	0.03	0.03		
25							0.15	0.21	0.05	0.03		
26						0.84	0.14	0.21	0.06	0.03		
27						0.47	0.12	0.18	0.06	0.03		
28						0.40	0.15	0.20	0.07	0.02	0.00	
29						0.34	0.14	0.20	0.07	0.02	–	
30						0.42	0.14	0.17	0.07	0.01	–	
31						–	0.14	–	0.07	0.01	–	0.00
Total							6.41	8.91	3.09	1.30	0.070	0.00
Mean							0.20	0.29	0.10	0.04	0.002	0.00
Max.							0.49	2.41	0.16	0.07	0.010	0.00
Min.							0.12	0.11	0.01	0.01	0.00	0.00
Runoff – mcm.							0.554	0.770	0.267	0.112	0.006	0.000

WATER YEAR 1972 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

PHUM DUANG RIVER BASIN

Khlong Sok at Ban Lang Tham, Surat Thani (X58)

Location: Lat. 8°-53'-05" N., Long. 98°-40'-06" E., on right bank about 10 meters downstream from the concrete bridge on Takuapa – Surat Thani highway, Amphoe Phanom, Surat Thani.

Drainage Area: 312 Sq.km.

Type of Gage: Staff gage

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

Bench Mark: B.M. – H.S.

Location: BM1 on right bank under Jackfruit tree, BM2 on right bank under Rose apple tree.
Elevation: BM1 = + 7.079 m. (A.D.), BM2 = + 6.942 m. (A.D.)

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

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

Period of Available Gage Records: 1972 to date.

Rating Operation:

Period of Rating: 1972 to date.
Rated by Float: –
Rated by Current Meter: 1972 to date.

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

Overbank Flow Conditions: No overbank flow.

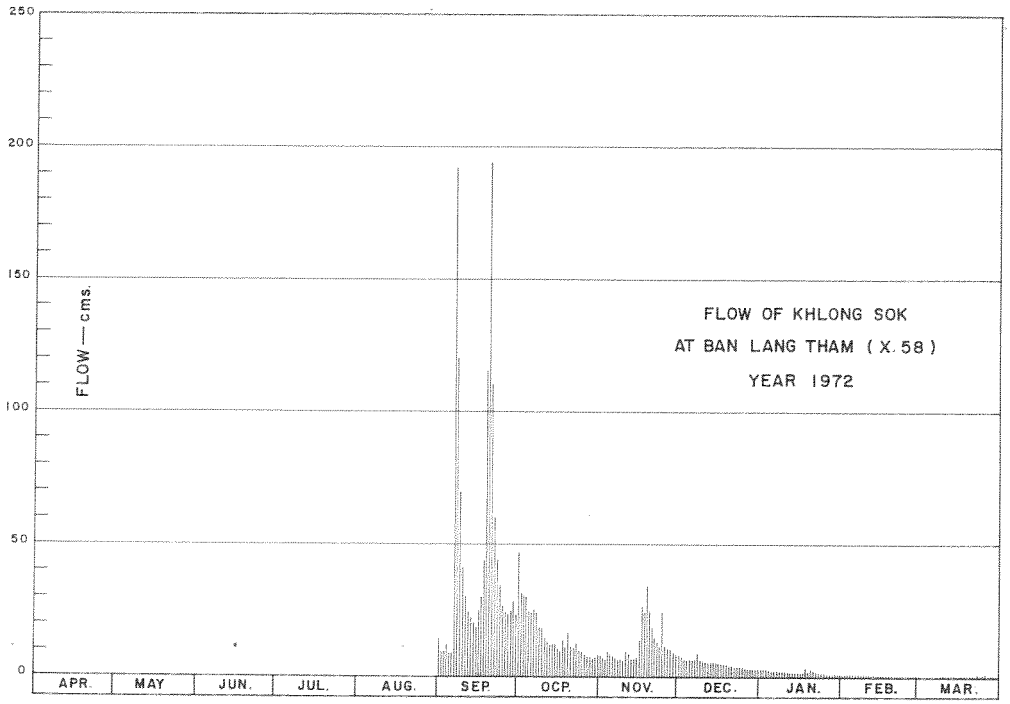
General Description: Records good. Stage-discharge relation defined by 24 discharge measurements made in 1972.

Remarks: Stream gaging began on September 1, 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						0.91	1.78	0.65	0.64	0.36	0.24	0.17
2						.69	.42	.61	.62	.36	.23	.17
3						.71	.38	.57	.60	.37	.23	.15
4						.82	.38	.70	.56	.36	.23	.15
5						.67	.23	.65	.58	.33	.22	.15
6						0.67	1.21	0.63	0.58	0.33	0.21	0.14
7						4.24	.25	.60	.57	.33	.21	.14
8						2.72	.23	.57	.67	.33	.21	.13
9						.12	.04	.58	.57	.31	.21	.13
10						1.64	.03	.56	.56	.31	.21	.14
11						1.37	0.94	0.69	0.54	0.29	0.21	0.20
12						.23	.87	.69	.50	.29	.21	.16
13						.16	.84	.58	.52	.29	.21	.14
14						.09	.82	.58	.51	.28	.21	.14
15						.05	.82	.63	.50	.28	.20	.15
16						1.19	0.76	0.88	0.52	0.28	0.20	0.13
17						.37	.72	1.26	.50	.28	.20	.13
18						.71	.88	.21	.49	.43	.20	.14
19						2.95	.77	.49	.46	.30	.23	.14
20						4.27	.97	.23	.44	.38	.20	.17
21						2.94	0.79	1.04	0.45	0.32	0.20	0.18
22						.11	.76	0.90	.43	.28	.20	.18
23						1.73	.83	.88	.42	.27	.19	.24
24						.53	.71	.77	.41	.27	.17	.20
25						.28	.72	1.21	.40	.26	.17	.23
26						1.22	0.66	0.77	0.38	0.26	0.17	0.24
27						.20	.64	.75	.38	.26	.17	.20
28						.21	.61	.74	.37	.25	.16	.21
29						.33	.62	.67	.37	.25	–	.20
30						.19	.58	.64	.36	.25	–	.18
31						–	.65	–	.35	.24	–	.15
Mean						1.61	0.93	0.79	0.49	0.30	0.20	0.17
Max.						4.27	1.78	1.49	0.67	0.43	0.24	0.24
Min.						0.67	0.58	0.56	0.35	0.24	0.16	0.13

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



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						15	47	8.75	8.50	3.40	1.60	0.85
2						9.75	32	7.75	8.00	3.40	1.45	0.85
3						10	31	6.90	7.50	3.55	1.45	0.75
4						13	31	10	6.70	3.40	1.45	0.75
5						9.25	25	8.75	7.10	2.95	1.30	0.75
6						9.25	25	8.25	7.10	2.95	1.15	0.70
7						192	26	7.50	6.90	2.95	1.15	0.70
8						95	25	6.90	9.25	2.95	1.15	0.65
9						63	19	7.10	6.90	2.65	1.15	0.65
10						41	19	6.70	6.70	2.65	1.15	0.70
11						30	16	9.75	6.30	2.35	1.15	1.00
12						25	14	9.75	5.50	2.35	1.15	0.80
13						23	13	7.10	5.90	2.35	1.15	0.70
14						21	13	7.10	5.70	2.20	1.15	0.70
15						19	13	8.25	5.50	2.20	1.00	0.75
16						24	11	14	5.90	2.20	1.00	0.65
17						30	10	27	5.50	2.20	1.00	0.65
18						44	14	25	5.35	4.45	1.00	0.70
19						107	12	35	4.90	2.50	1.45	0.70
20						194	17	25	4.60	3.70	1.00	0.85
21						108	12	19	4.75	2.80	1.00	0.90
22						62	11	15	4.45	2.20	1.00	0.90
23						45	13	14	4.30	2.05	0.95	1.60
24						37	10	12	4.15	2.05	0.85	1.00
25						27	10	25	4.00	1.90	0.85	1.45
26						25	9.00	12	3.70	1.90	0.85	1.60
27						24	8.50	11	3.70	1.90	0.85	1.00
28						25	7.75	11	3.55	1.75	0.80	1.15
29						29	8.00	9.25	3.55	1.75	–	1.00
30						24	7.10	8.50	3.40	1.75	–	0.90
31						–	8.75	–	3.25	1.60	–	0.75
Total						1,380.25	518.10	383.30	172.60	79.00	31.20	27.10
Mean						46.0	16.7	12.8	5.57	2.55	1.11	0.87
Max.						194	47	35	9.25	4.45	1.60	1.60
Min.						9.25	7.10	6.70	3.25	1.60	0.80	0.65
Runoff – mcm.						119.254	44.764	33.117	14.913	6.826	2.696	2.341

WATER YEAR 1972 : Max. 194 Min. 0.65 Mean 7.10 Annual Runoff 223.910 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.7, 72		515	264				

PHUM DUANG RIVER BASIN

Khlong Saeng at Ban Chiea Ko, Surat Thani (X59)

Location: Lat. 9°-01'-00" N., Long. 98°-40'-23" E., on right bank at BanChieo Ko, Amphoe Khiri Ratthanikhom, Surat Thani.

Drainage Area: 800 Sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 26.210 m. (M.S.L.)

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

Location: on right bank under the guava tree.
Elevation: + 41.238 m. (M.S.L.)

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

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

Period of Available Gage Records: 1972-1976

Rating Operation:

Period of Rating: 1972-1974
Rated by Float: -
Rated by Current Meter: 1972-1974

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

Overbank Flow Conditions: No overbank flow.

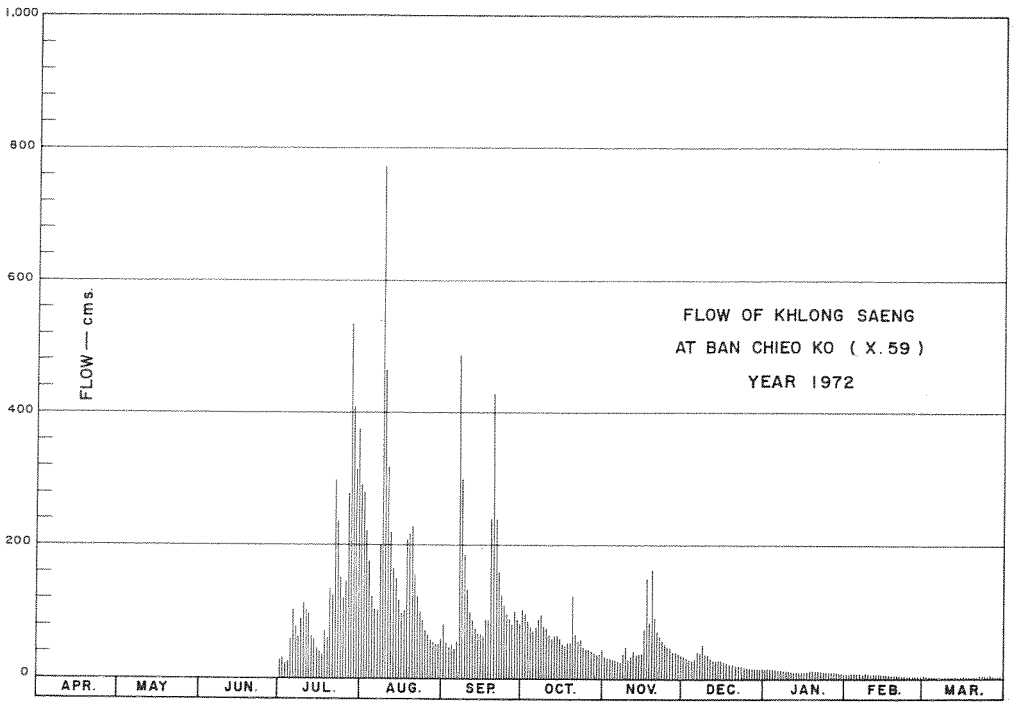
General Description: Records good. Stage-discharge relation defined by 103 discharge measurements made in 1972.

Remarks: Stream gaging began on July 1, 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				27.44	30.19	28.28	28.51	27.55	27.55	27.20	27.03	26.95
2				.54	.11	27.88	.46	.53	.51	.19	.03	.94
3				.40	29.44	.79	.37	.51	.48	.18	.02	.93
4				.36	28.97	.85	.21	.50	.47	.19	.02	.93
5				.96	.69	.74	.13	.49	.46	.17	.02	.92
6				28.51	28.53	27.87	28.24	27.43	27.65	27.16	27.01	26.92
7				.25	.48	31.55	.34	.41	.63	.15	.01	.92
8				27.98	29.28	30.24	.42	.59	.85	.15	.00	.91
9				28.34	33.21	29.33	.21	.78	.62	.14	.00	.92
10				.61	30.96	28.82	.31	.47	.60	.14	.00	.92
11				28.51	30.43	28.50	28.09	27.56	27.51	27.13	26.99	26.91
12				.42	29.64	.34	27.97	.66	.46	.12	.99	.92
13				.00	.17	.24	28.01	.58	.43	.11	.99	.91
14				27.95	.04	.09	.04	.61	.44	.11	.98	.91
15				.80	28.66	.09	.01	.63	.47	.11	.98	.92
16				27.72	28.43	28.02	27.86	28.14	27.42	27.10	26.97	26.91
17				.61	.48	.34	.79	.98	.43	.10	.97	.90
18				28.14	29.52	.32	.88	.28	.40	.12	.97	.90
19				27.97	.57	29.69	.87	29.11	.37	.11	.97	.90
20				28.85	.69	31.15	28.71	28.41	.35	.14	.97	.90
21				28.77	29.09	29.84	28.05	28.15	27.33	27.11	26.96	26.90
22				30.23	28.74	.09	27.91	.03	.31	.09	.96	.94
23				29.60	.52	28.76	.95	27.91	.29	.08	.95	.94
24				.04	.35	.62	.80	.85	.28	.08	.95	.93
25				28.68	.19	.44	.72	.77	.27	.07	.94	.92
26				28.94	28.07	28.37	27.71	27.77	27.25	27.06	26.94	26.94
27				29.97	27.96	.27	.67	.66	.25	.06	.96	.93
28				31.83	.89	.50	.65	.65	.23	.06	.96	.91
29				.02	.84	.38	.64	.61	.23	.04	-	.90
30				30.35	.85	.26	.58	.58	.21	.04	-	.90
31				.79	.97	-	.72	-	.21	.04	-	.93
Mean				28.87	29.20	28.74	28.05	27.81	27.42	27.11	26.98	26.92
Max.				31.83	33.21	31.55	28.71	29.11	27.85	27.20	27.03	26.95
Min.				27.36	27.84	27.74	27.58	27.41	27.21	27.04	26.94	26.90

WATER YEAR 1972 : Max. 33.21 m. Min. 26.90 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				28	294	85	105	34	34	16	8.70	5.50
2				33	283	55	100	33	32	15	8.70	5.10
3				25	200	49	92	32	30	15	8.30	4.70
4				23	149	53	79	31	29	15	8.30	4.70
5				60	121	46	72	30	29	14	8.30	4.30
6				105	107	54	81	27	40	14	7.90	4.30
7				82	102	488	90	26	39	13	7.90	4.30
8				62	181	301	97	36	53	13	7.50	3.90
9				90	772	187	79	48	38	13	7.50	4.30
10				114	402	134	79	29	37	13	7.50	4.30
11				105	326	104	69	35	32	13	7.10	3.90
12				97	223	90	61	41	29	12	7.10	4.30
13				63	169	81	64	36	27	12	7.10	3.90
14				60	156	69	66	38	28	12	6.70	3.90
15				50	118	69	64	39	29	12	6.70	4.30
16				44	98	64	54	73	27	11	6.30	3.90
17				38	102	90	49	150	27	11	6.30	3.50
18				73	209	88	55	84	25	12	6.30	3.50
19				61	215	229	54	163	24	13	6.30	3.50
20				137	229	429	123	96	23	13	6.30	3.50
21				127	161	248	66	74	22	12	5.90	3.50
22				299	126	161	57	65	21	11	5.90	5.10
23				218	106	128	60	57	20	11	5.50	5.10
24				156	90	115	50	53	19	11	5.50	4.70
25				120	77	99	45	48	19	10	5.10	4.30
26				146	68	92	45	48	18	10	5.10	5.10
27				265	60	84	42	41	18	10	5.90	4.70
28				533	56	104	41	40	17	10	5.90	3.90
29				410	53	93	37	38	17	9.10	–	3.50
30				316	53	83	37	36	16	9.10	–	3.50
31				377	61	–	45	–	16	9.10	–	4.70
Total				4,317	5,367	3,972	2,058	1,581	835	374.30	191.60	131.70
Mean				139	173	132	66.4	52.7	26.9	12.1	6.84	4.25
Max.				533	772	488	123	163	53	16	8.70	5.50
Min.				23	53	46	37	26	16	9.10	5.10	3.50
Runoff – mcm.				372.989	463.709	343.181	177.811	136.598	72.144	32.339	16.554	11.379

WATER YEAR 1972 : Max. 772 Min. 3.50 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 9, 72	04.00	33.55	839				

PHUM DUANG RIVER BASIN

Khlong Yan at Kaeng Krung, Surat Thani (X 66)

Location: Lat. 9°-18'-27" N., Long. 98°-51'-52" E., on left bank at Kaeng Krung, Amphoe Khiri Ratthani Khom, Surat Thani.

Drainage Area: 661 Sq.km.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 53.052 m. (M.S.L.)

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

Location: on left bank near the gage site.
Elevation: + 64.675 m. (M.S.L.)

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

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

Period of Available Gage Records: 1972-to date.

Rating Operation:

Period of Rating: 1972 to date.
Rated by Float: -
Rated by Current Meter: 1972 to date.

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

Overbank Flow Conditions: No overbank flow.

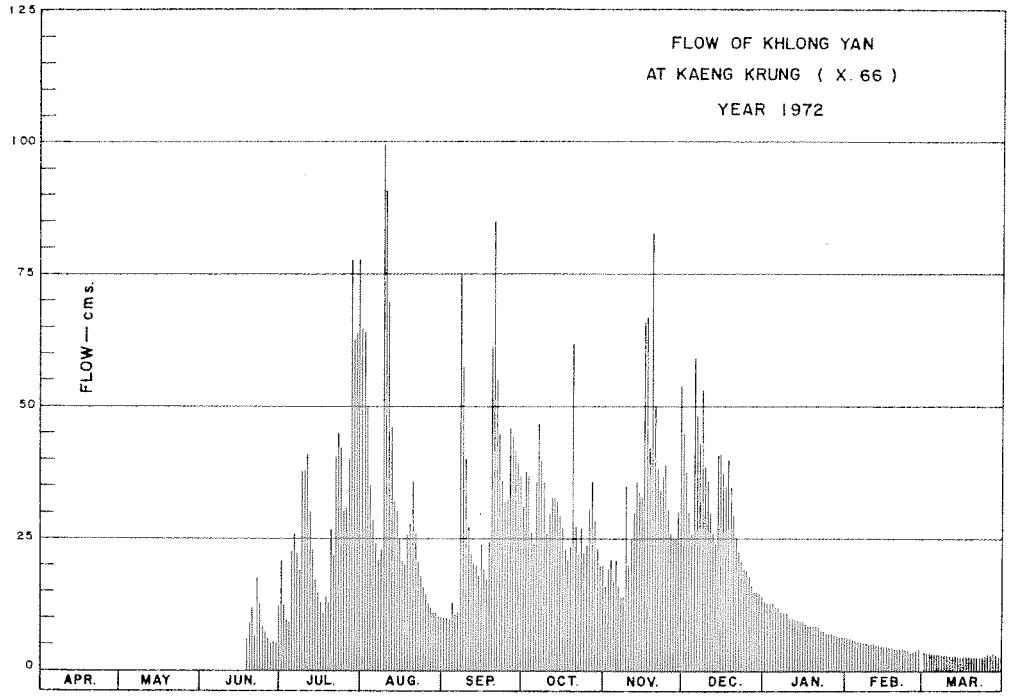
General Description: Records good. Stage-discharge relation defined by 87 discharge measurements made in 1972.

Remarks: Stream gaging began on June 18, 1972. Asterisk (*) designates the discharge determined from hourly gage-heights.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1,1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				54.16	54.99	53.88	54.38	54.05	54.61	53.96	53.73	53.61
2				53.96	.98	.89	.52	.12	.44	.95	.73	.60
3				.90	.64	.88	.40	.16	.33	.94	.72	.60
4				.84	.46	.96	.27	.07	.27	.99	.71	.59
5				54.21	.34	.92	.23	.16	.89	.93	.70	.59
6				54.28	54.24	53.93	54.49	54.05	54.70	53.91	53.70	53.58
7				.23	.18	55.11	.68	.01	.62	.90	.69	.58
8				.12	.21	54.92	.52	.00	.79	.89	.69	.58
9				.50	55.51	.46	.48	.47	.54	.88	.68	.58
10				.51	.22	.33	.29	.14	.49	.87	.68	.57
11				54.58	54.97	54.20	54.37	54.26	54.36	53.86	53.68	53.57
12				.44	.67	.16	.42	.36	.29	.85	.67	.57
13				.21	.42	.16	.43	.49	.24	.85	.67	.57
14				.11	.36	.11	.40	.45	.58	.84	.66	.56
15				.02	.26	.23	.34	.43	.58	.84	.66	.56
16				53.97	54.17	54.12	54.31	55.01	54.48	53.82	53.66	53.56
17				.91	.16	.09	.21	.02	.46	.81	.65	.56
18			53.75	54.01	.28	.26	.18	54.60	.56	.81	.65	.56
19			.83	53.98	.33	55.07	.24	55.28	.42	.81	.64	.55
20			.96	54.28	.46	.30	.95	54.72	.33	.81	.64	.55
21			53.78	54.19	54.28	54.80	54.30	54.52	54.25	53.81	53.64	53.55
22			54.09	.57	.17	.65	.19	.44	.19	.78	.63	.55
23			.03	.65	.11	.49	.31	.51	.15	.78	.63	.55
24			53.85	.60	.05	.41	.19	.53	.12	.77	.62	.54
25			.81	.36	.01	.42	.21	.39	.10	.76	.61	.58
26			53.76	54.38	53.98	54.66	54.36	54.29	54.07	53.76	53.61	53.58
27			.74	.61	.95	.64	.49	.25	.04	.75	.62	.62
28			.75	55.20	.93	.61	.37	.25	.02	.74	.63	.57
29			.74	54.92	.91	.53	.22	.32	.00	.74	-	.56
30			.96	.99	.91	.51	.14	.80	.00	.74	-	.55
31			-	55.19	.89	-	.14	-	53.97	.73	-	.54
Mean				54.35	54.36	54.39	54.35	54.40	54.35	53.83	53.66	53.57
Max.				55.20	55.51	55.30	54.95	55.28	54.89	53.99	53.73	53.62
Min.				53.84	53.89	53.88	54.14	54.00	53.97	53.73	53.61	53.54

WATER YEAR 1972 : Max. 55.51 m. Min. 53.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				* 21	* 65	* 9.84	31	16	43	13	6.38	3.71
2				* 15	* 64	* 10	38	19	34	13	6.38	3.50
3				* 10	* 45	* 9.70	32	21	28	13	6.12	3.50
4				* 8.72	* 34	* 13	26	17	26	13	5.96	3.34
5				* 23	* 29	11	24	21	59	12	5.60	3.34
6				* 26	* 24	* 11	36	16	48	12	5.60	3.18
7				* 23	* 21	* 75	47	14	43	11	5.39	3.18
8				* 19	* 23	* 61	38	14	53	11	5.39	3.18
9				* 38	* 100	* 35	36	35	39	11	5.18	3.18
10				* 38	* 79	* 28	26	20	35	10	5.18	3.02
11				* 41	* 63	* 22	30	25	30	10	5.18	3.02
12				* 33	* 46	* 20	33	30	26	9.80	4.97	3.02
13				* 23	* 32	* 20	33	36	24	9.80	4.97	3.02
14				* 18	* 30	* 18	32	34	41	9.48	4.76	2.86
15				* 15	* 25	* 24	29	33	41	9.48	4.76	2.86
16				* 13	* 21	* 19	27	66	36	8.84	4.76	2.86
17				* 11	* 20	* 17	23	67	35	8.52	4.55	2.86
18			5.70	* 14	* 26	* 26	21	42	40	8.52	4.55	2.86
19			8.16	* 13	* 28	70	24	83	33	8.52	4.34	2.70
20			12	* 27	* 36	85	62	49	29	8.52	4.34	2.70
21			6.60	* 22	* 26	54	27	38	25	8.52	4.34	2.70
22			18	* 41	* 21	45	22	34	22	7.68	4.13	2.70
23			15	* 45	* 18	36	27	37	21	7.68	4.13	2.70
24			8.80	* 41	* 16	32	22	39	19	7.42	3.92	2.54
25			7.52	* 30	* 14	* 33	23	31	19	7.16	3.71	3.18
26			6.00	* 31	* 13	46	30	26	17	7.16	3.71	3.18
27			5.40	* 43	* 12	* 44	36	25	16	6.90	3.92	3.92
28			5.70	* 78	* 11	* 43	30	25	15	6.64	4.13	3.02
29			5.40	* 63	* 11	39	20	28	15	6.64	–	2.86
30			12	* 64	* 10	37	20	54	15	6.64	–	2.70
31			–	* 78	* 10	–	–	–	14	6.38	–	2.54
Total				953.72	973	993.54	928	995	942	289.30	136.25	93.93
Mean				30.8	31.4	33.1	29.9	33.2	30.4	9.33	4.87	3.03
Max.				78	100	85	62	83	59	13	6.38	3.92
Min.				8.72	10	9.70	20	14	14	6.38	3.71	2.54
Runoff – mcm.				85.405	84.067	85.842	80.179	85.968	81.389	24.995	11.772	8.115

WATER YEAR 1972 : Max. 100 Min. 2.54 Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug.9,	08.00	56.31	156				

PHUM DUANG RIVER BASIN

Khlong Yan at Ban Tha Kradan, Surat Thani (x 74 B)

Location: Lat. 9°-04'-06" N., Long. 98°-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.

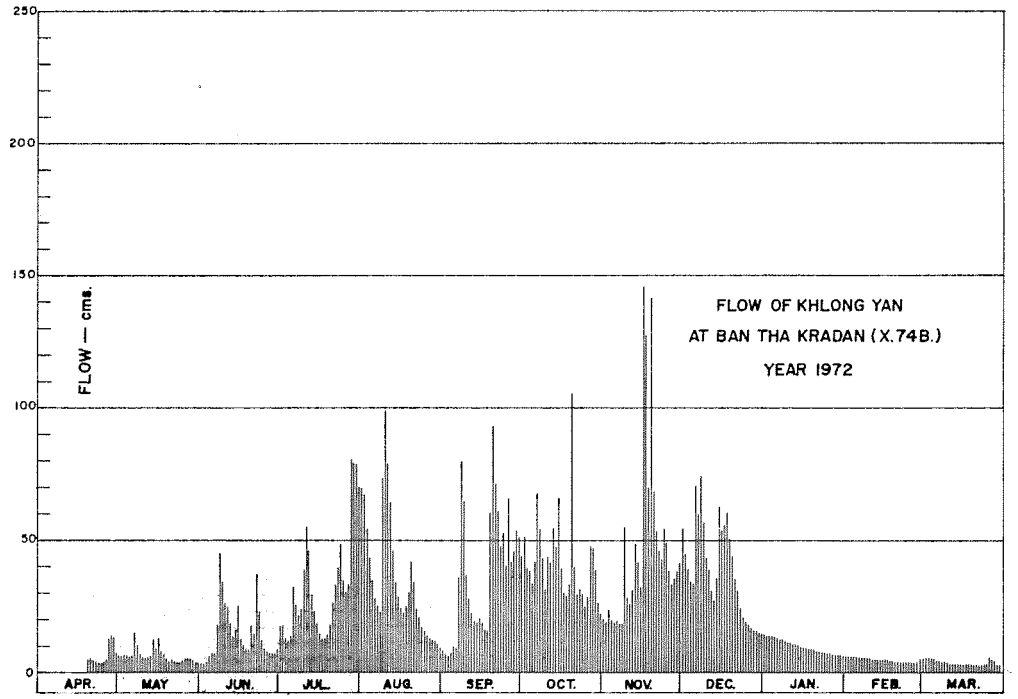
General Description: Records fair. Stage-discharge relation defined by 155 discharge measuremenis made in 1971.

Remarks: Asterisk (*) designates the discharges determined from hourly gage heights. No gage record on period April 1-18.

GAGE HEIGHT IN METER (M. S. L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		7.38	7.33	7.69	8.73	7.46	8.22	7.76	8.48	7.62	7.42	7.39
2		.40	.33	.70	.68	.44	.43	.70	.32	.61	.42	.39
3		.40	.33	.53	.43	.39	.18	.64	.13	.60	.41	.39
4		.41	.40	.48	.20	.43	.18	.72	.06	.61	.41	.39
5		.39	.43	.57	.05	.49	7.99	.70	.06	.59	.41	.38
6		7.39	7.41	8.14	7.91	7.46	8.32	7.74	8.76	7.56	7.41	7.38
7		.62	.69	7.79	.89	.93	.72	.70	.48	.57	.40	.37
8		.51	8.30	.78	.79	8.89	.32	.69	.83	.56	.39	.36
9		.42	.10	.83	8.68	.31	.20	8.48	.46	.55	.39	.36
10		.39	7.87	8.19	9.14	.04	7.99	7.91	.29	.54	.39	.36
11		7.37	7.80	8.48	8.81	7.86	8.28	7.90	8.12	7.53	7.38	7.35
12		.39	.72	.28	.50	.76	.21	8.05	.00	.52	.38	.34
13		.39	.58	.97	.22	.73	.49	.38	7.92	.51	.38	.34
14		.56	.66	.74	.06	.70	.32	.22	8.15	.50	.38	.34
15		.46	.88	.70	7.94	.76	.69	.02	.63	.49	.38	.34
16		7.58	7.55	7.63	7.85	7.73	8.14	9.74	8.46	7.48	7.38	7.34
17		.45	.49	.56	.78	.66	7.94	.53	.46	.48	.38	.34
18		.42	.44	.57	.88	.64	.96	8.75	.60	.48	.37	.34
19	7.37	.38	.44	.62	.97	8.88	8.06	9.69	.41	.48	.37	.34
20	.39	.36	.69	.63	8.24	9.07	9.24	8.74	.27	.47	.36	.34
21	7.37	7.36	7.56	7.87	7.98	8.74	8.17	8.45	8.12	7.47	7.36	7.34
22	.36	.35	8.13	8.07	.83	.57	7.97	.31	.01	.46	.36	.34
23	.35	.34	7.82	.24	.75	.30	8.00	.23	7.87	.46	.36	.33
24	.35	.34	.58	.45	.66	.44	7.98	.49	.77	.45	.36	.33
25	.35	.36	.46	.03	.61	.07	.86	.33	.74	.44	.36	.34
26	7.37	7.39	7.44	7.94	7.59	8.68	7.93	8.14	7.71	7.44	7.36	7.40
27	.57	.37	.44	8.10	.58	.21	8.36	.05	.68	.43	.36	.38
28	.56	.37	.42	.85	.55	.31	.33	.11	.67	.43	.36	.37
29	.57	.37	.43	.84	.53	.47	.16	.18	.66	.43	-	.33
30	.43	.34	.45	.93	.51	.39	7.89	.24	.65	.42	-	.33
31	-	.34	-	.74	.48	-	.80	-	.63	.42	-	.33
Mean		7.41	7.60	8.09	8.03	8.06	8.20	8.26	8.14	7.50	7.38	7.35
Max.		7.62	8.30	8.97	9.14	9.07	9.24	9.74	8.83	7.62	7.42	7.40
Min.		7.34	7.33	7.48	7.48	7.39	7.80	7.69	7.63	7.42	7.36	7.33

WATER YEAR 1972 : Max. 9.74 m. Min. 7.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		5.30	3.05	* 18	* 70	* 8.33	41	20	55	15	6.88	5.75
2		6.20	3.05	* 18	* 67	* 7.63	52	18	46	14	6.88	5.75
3		6.20	3.05	* 12	* 52	* 5.91	39	24	37	14	6.54	5.75
4		6.54	6.20	* 11	* 40	* 7.34	39	19	33	14	6.54	5.75
5		5.75	7.22	* 13	* 33	* 10	30	18	33	14	6.54	5.30
6		5.75	6.54	* 33	* 27	* 8.75	46	20	71	13	6.54	5.30
7		15	18	* 22	* 25	* 30	68	18	55	13	6.20	4.85
8		11	45	* 21	* 22	* 80	46	18	75	13	5.75	4.40
9		6.88	35	* 24	* 74	* 54	40	55	55	12	5.75	4.40
10		5.75	25	* 40	* 99	* 32	30	27	45	12	5.75	4.40
11		4.85	22	* 55	* 73	* 24	44	26	36	12	5.30	3.95
12		5.75	19	* 44	* 56	* 20	41	33	31	11	5.30	3.50
13		5.75	13	* 29	* 41	* 19	55	49	27	11	5.30	3.50
14		13	16	* 20	* 33	* 18	46	41	38	11	5.30	3.50
15		8.44	25	* 18	* 28	* 20	66	31	63	10	5.30	3.50
16		13	12	* 15	* 24	* 19	37	146	54	9.52	5.30	3.50
17		7.90	10	* 13	* 21	* 16	28	129	54	9.52	5.30	3.50
18		6.88	7.56	* 13	* 25	* 16	29	70	61	9.52	4.85	3.50
19	4.85	5.30	7.56	* 15	* 29	79	33	142	51	9.52	4.85	3.50
20	5.75	4.40	18	* 19	* 42	93	106	69	44	8.98	4.40	3.50
21	4.85	4.40	13	* 27	* 30	69	39	53	36	8.98	4.40	3.50
22	4.40	3.95	37	* 34	* 23	60	29	46	31	8.44	4.40	3.50
23	3.95	3.50	23	* 42	* 20	45	31	42	25	8.44	4.40	3.05
24	3.95	3.50	13	* 49	* 16	53	30	55	21	7.90	4.40	3.05
25	3.95	4.40	8.44	* 32	* 14	* 34	24	47	20	7.56	4.40	3.50
26	4.85	5.75	7.56	* 28	* 14	66	27	37	18	7.56	4.40	6.20
27	13	4.85	7.56	* 35	* 13	* 41	48	33	17	7.22	4.40	5.30
28	13	4.85	6.88	* 81	* 12	* 46	47	36	17	7.22	4.40	4.85
29	13	4.85	7.22	* 79	* 12	54	38	39	16	7.22	–	3.05
30	7.22	3.50	7.90	* 78	* 11	50	26	42	16	6.88	–	3.05
31	–	3.50	–	* 70	* 9.92	–	22	–	15	6.88	–	3.05
Total		196.69	433.79	1,008	1,055.92	1,085.96	1,277	1,403	1,196	320.36	149.77	129.10
Mean		6.34	14.4	32.5	34.1	36.2	41.2	46.8	38.6	10.3	5.35	4.16
Max.		15	45	81	99	93	106	146	75	15	6.88	6.20
Min.		3.50	3.05	11	9.92	5.91	22	18	15	6.88	4.40	3.05
Runoff – mcm.		16.994	37.479	87.091	91.231	93.827	110.333	121.219	103.334	27.679	12.940	11.154

WATER YEAR 1972 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov 16, 72	06.00	10.30	196				

PATTANI RIVER BASIN

Pattani River at Amphoe Muang, Yala (X40)

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.

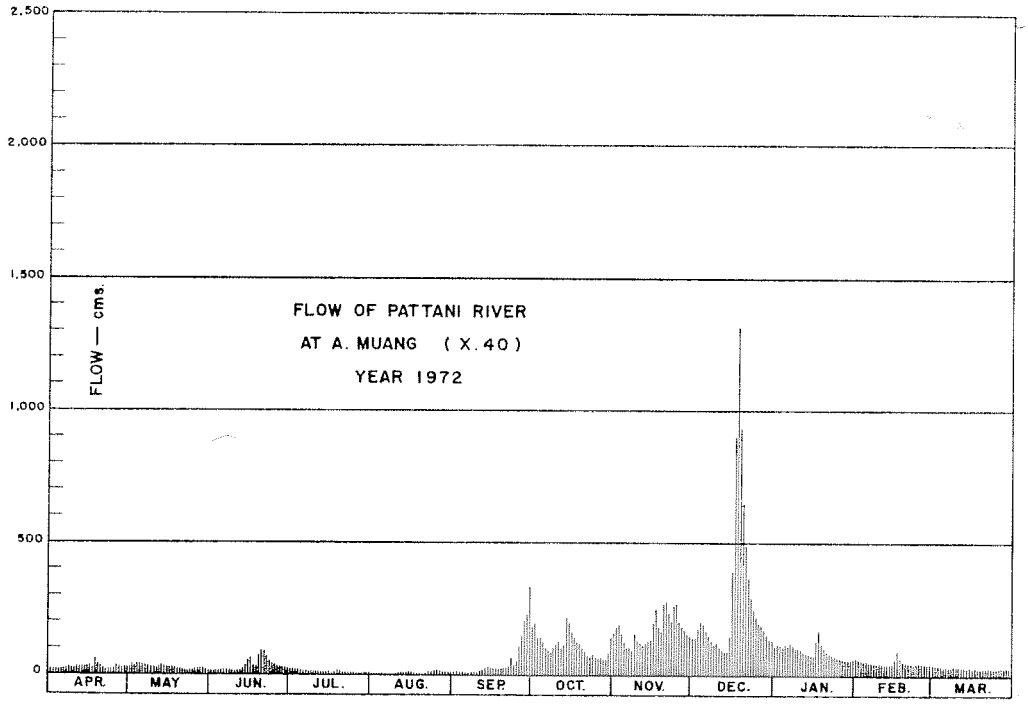
Overbank Flow Conditions: Overbank flow starts at elevation + 13.70 m. (M.S.L.) and is included.

General Description: Records good. Stage-discharge relation defined by 158 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10.58	10.75	10.52	10.71	10.36	10.43	12.68	12.48	12.30	11.92	11.40	11.01
2	.56	11.00	.49	.65	.36	.51	.82	.67	.25	12.06	.33	10.98
3	.56	10.82	.47	.60	.34	.52	.26	.81	.61	.01	.26	.95
4	.55	11.00	.47	.57	.33	.47	.28	.48	.86	11.91	.22	.94
5	.56	.05	.57	.54	.32	.42	.21	.04	.81	12.03	.19	.93
6	10.56	10.91	10.55	10.52	10.32	10.41	12.05	11.85	12.59	11.96	11.17	10.91
7	.68	.86	.49	.51	.33	.40	11.76	.90	.34	12.08	.15	.90
8	.76	.80	.56	.49	.31	.51	.62	.77	.14	11.96	.13	.90
9	.69	.76	.49	.48	.31	.45	.83	12.46	.01	.86	.11	.99
10	.69	.69	.47	.49	.31	.42	.99	.13	.12	.82	.12	.92
11	10.81	10.69	10.46	10.48	10.36	10.52	12.15	12.09	11.98	11.74	11.13	10.90
12	.76	.69	.52	.47	.38	.67	11.80	11.96	.80	.68	.10	.88
13	.86	.93	.76	.44	.41	.83	.94	12.01	.70	.62	.09	.86
14	.78	.83	.99	.43	.44	.90	13.03	.16	.67	.59	.08	.85
15	.83	.81	11.18	.42	.45	.88	12.98	.22	12.37	.55	.06	.83
16	10.87	10.72	11.30	10.41	10.57	10.74	12.51	12.72	13.93	11.52	11.16	10.83
17	.75	.64	10.94	.41	.48	.74	.30	13.34	15.34	12.09	.75	.81
18	11.29	.61	.99	.42	.42	.72	.09	12.73	16.59	.57	.42	.80
19	.00	.56	11.20	.61	.41	.71	.05	.55	15.96	.03	.24	.81
20	10.82	.55	.71	.59	.39	.80	11.89	13.50	.42	11.89	.16	.80
21	10.72	10.52	11.74	10.43	10.40	10.83	11.67	13.60	14.88	11.72	11.11	10.79
22	.67	.56	.57	.42	.41	.92	.52	.17	.34	.61	.08	.78
23	.65	.54	.18	.41	.57	11.34	.42	12.89	13.83	.55	.05	.78
24	.67	.55	.08	.40	.55	.01	.59	13.42	.42	.49	.03	.76
25	.69	.62	10.98	.39	.71	.16	.48	.52	.09	.45	.02	.75
26	10.90	10.70	10.89	10.37	10.63	10.87	11.33	12.93	12.88	11.41	11.07	10.81
27	.80	.77	.79	.37	.49	12.18	.38	.73	.81	.36	.09	.91
28	.82	.70	.73	.36	.49	.91	.30	.62	.62	.33	.05	.84
29	.72	.65	.70	.36	.48	13.10	.26	.49	.45	.30	-	.77
30	.73	.59	.71	.37	.44	.99	.60	.34	.25	.28	-	.76
31	.71	.53	-	.36	.42	-	12.28	-	.22	.30	-	.76
Mean	10.74	10.75	10.85	10.47	10.42	11.04	11.97	12.59	13.08	11.73	11.17	10.85
Max.	11.29	11.05	11.74	10.71	10.71	13.99	13.03	13.60	16.59	12.57	11.75	11.01
Min.	10.55	10.52	10.46	10.36	10.31	10.40	11.26	11.77	11.67	11.28	11.02	10.75

WATER YEAR 1972 : Max. 16.59 m. Min. 10.31 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	29	18	27	11	14	183	163	146	112	70	46
2	20	44	17	24	11	17	197	182	141	124	65	43
3	20	33	16	22	11	18	142	196	176	129	60	41
4	19	44	16	20	10	16	144	163	202	111	57	40
5	20	47	20	19	9.80	14	138	123	196	122	55	40
6	20	39	19	18	9.80	13	123	105	174	115	54	39
7	26	36	17	17	10	13	98	110	150	126	53	38
8	30	32	20	17	9.40	17	87	99	132	115	52	38
9	26	30	17	16	9.40	15	104	161	120	106	51	43
10	26	26	16	17	9.40	14	118	131	130	103	51	39
11	33	26	15	16	11	18	132	127	117	96	52	38
12	30	26	18	16	12	25	101	115	101	91	50	37
13	36	40	30	15	13	34	114	120	93	87	49	36
14	31	34	43	14	15	38	220	133	91	84	49	35
15	34	33	55	14	15	37	215	139	152	81	48	34
16	36	28	63	13	20	29	166	187	324	79	54	34
17	29	24	40	13	16	29	146	254	683	127	97	33
18	62	22	43	14	14	28	127	188	1,320	172	71	32
19	44	20	56	22	13	27	123	170	969	122	59	33
20	33	19	94	21	13	32	109	272	716	109	54	32
21	28	19	96	14	13	34	91	283	521	95	51	31
22	25	20	83	14	13	39	79	236	391	86	49	31
23	24	19	55	13	20	66	71	205	311	81	47	31
24	25	19	49	13	19	45	84	263	263	75	46	30
25	26	23	43	13	27	54	76	274	227	73	45	29
26	38	27	37	12	23	107	65	209	204	71	48	33
27	32	30	31	12	17	135	69	188	196	67	49	39
28	33	27	28	11	17	207	63	177	177	65	47	34
29	28	24	27	11	16	228	60	164	160	63	–	30
30	27	21	27	12	15	333	85	150	141	62	–	30
31	–	18	–	11	14	–	144	–	139	63	–	30
Total	882	878	1,109	491	436.80	1,696	3,674	5,287	8,863	3,003	1,533	1,098
Mean	29.4	28.3	37.0	15.8	14.1	56.5	118	176	286	96.9	54.7	35.4
Max.	62	47	96	27	27	333	220	283	1,320	172	97	45
Min.	19	18	15	11	9.40	13	60	99	91	62	45	29
Runoff - mcm.	76.205	75.859	95.818	42.422	37.739	146.534	317.434	456.797	765.763	259.459	132.451	94.867

WATER YEAR 1972 : Max. 1,320 Min. 9.40 Mean 79.3 Annual Runoff 2,501.349 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 18,72	.09-11.00	16.72	1,401				

KHLONG YAHA RIVER BASIN

Khlong Yaha at Ban la Ae, Yala (X.72)

Location: Lat. 6°-28'-21" N., Long. 101°-10'-03" E., on right bank about 4 kilometers from Amphoe Yaha along the rural road 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: 1967-1969
Rated by Float: -
Rated by Current Meter: 1967-1969

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

Overbank Flow Conditions: No overbank flow.

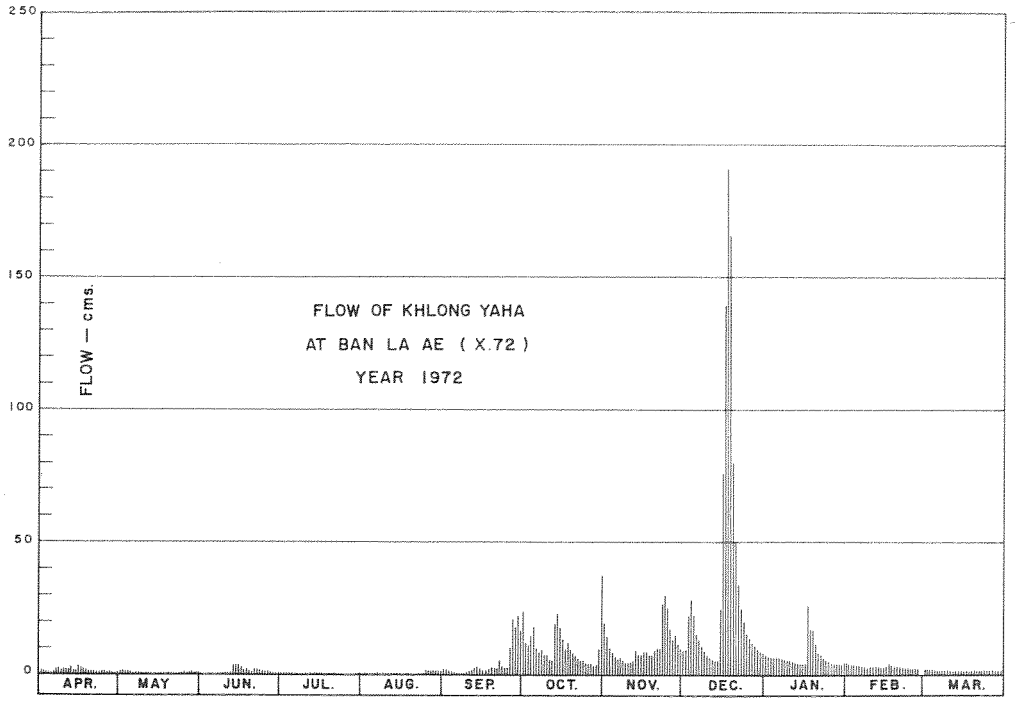
General Description: Records fair. Stage-discharge relation defined by 326 discharge measurements made during 1967-1968.

Remarks: * Flow by estimated.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.37	1.40	1.26	1.34	1.21	1.61	3.45	3.16	2.40	2.24	1.97	1.60
2	.36	.41	.25	.32	.22	.51	2.61	2.87	.45	.18	.89	.58
3	.35	.37	.25	.29	.21	.41		.52	3.31	.17	.86	.57
4	.35	.39	.25	.28	.20	.36		.32	.62	.16	.82	.56
5	.34	.35	.26	.27	.19	.32	3.08	.18	.20	.14	.80	.54
6	1.37	1.34	1.26	1.26	1.18	1.31	2.52	2.08	2.81	2.16	1.77	1.52
7	.57	.32	.26	.26	.17	.30	.31	.12	.63	.11	.75	.51
8	.57	.33	.26	.26	.17	.32	.40	.01	.45	.08	.72	.51
9	.52	.31	.27	.26	.18	.30	.23	1.92	.31	.05	.69	.50
10	.56	.31	.29	.26	.19	.40	.25	.86	.25	.04	.73	.49
11	1.53	1.30	1.30	1.25	1.20	1.52	2.07	1.97	2.13	2.00	1.75	1.49
12	.67	.30	.46	.26	.24	.58	1.99	2.02	.06	1.96	.72	.49
13	.59	.30	.77	.25	.27	.84	3.04	.39	.01	.91	.70	.47
14	.52	.30	.84	.23	.26	.74	.39	.22	.04	.88	.69	.45
15	.81	.30	.80	.23	.31	.58	.07	.24	3.34	.87	.69	.45
16	1.69	1.29	1.63	1.22	1.33	1.50	2.75	2.32	5.60	1.85	1.79	1.44
17	.58	.29	.50	.22	.30	.53	.47	.36	8.52	3.55	.92	.42
18	.52	.28	.60	.22	.27	.54	.66	.22	.02	.00	.80	.41
19	.45	.27	.53	.21	.25	.64	.50	.24	6.31	.02	.74	.41
20	.40	.26	.51	.21	.25	.66	.33	.40	4.90	2.55	.70	.40
21	1.40	1.26	1.63	1.21	1.28	1.59	2.23	2.48	4.15	2.32	1.67	1.40
22	.39	.28	.55	.21	.28	.98	.10	.46	3.72	.19	.66	.39
23	.39	.27	.45	.20	.25	.83	.04	3.56	.33	.10	.64	.37
24	.42	.27	.43	.21	.29	.65	1.99	.75	.05	.04	.63	.37
25	.44	.27	.41	.20	.51	.62	.90	.46	2.85	1.99	.62	.36
26	1.41	1.37	1.37	1.20	1.43	2.45	1.86	3.01	2.72	1.95	1.62	1.37
27	.39	.33	.35	.20	.46	3.25	.87	2.76	.65	.92	.65	.42
28	.37	.38	.33	.19	.52	.08	.84	.87	.51	.89	.63	.39
29	.35	.34	.33	.18	.44	.32	.83	.69	.43	.87		.39
30	.34	.29	.34	.18	.42	.02	2.29	.51	.35	.83		.38
31		.27		.20	.38		4.09		.29	.94		.40
Mean	1.47	1.31	1.42	1.23	1.28	1.79		2.50	3.37	2.16	1.74	1.45
Max.	1.81	1.40	1.84	1.34	1.52	3.32	4.09	3.75	8.52	3.55	1.97	1.60
Min.	1.34	1.26	1.25	1.18	1.17	1.30	1.83	1.86	2.01	1.83	1.62	1.36

WATER YEAR 1972 : Max. 8.52 m. Min. 1.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.08	1.20	0.68	0.96	0.53	2.30	24	19	9.20	7.59	4.96	2.30
2	1.04	1.25	0.65	0.88	0.56	1.76	12	15	9.75	6.90	4.33	2.18
3	1.00	1.08	0.65	0.77	0.53	1.25	11 *	10	22	6.80	4.12	2.18
4	1.00	1.16	0.65	0.74	0.50	1.04	14 *	8.32	28	6.70	3.84	2.06
5	0.96	1.00	0.68	0.71	0.48	0.88	18	6.90	20	6.50	3.70	1.94
6	1.08	0.96	0.68	0.68	0.46	0.84	10	5.92	14	6.70	3.49	1.82
7	2.12	0.88	0.68	0.68	0.44	0.80	8.21	6.30	12	6.20	3.35	1.76
8	2.12	0.92	0.68	0.68	0.44	0.88	9.20	5.29	9.75	5.92	3.14	1.76
9	1.82	0.84	0.71	0.68	0.46	0.80	7.40	4.56	8.21	5.65	2.93	1.70
10	2.06	0.84	0.77	0.68	0.48	1.20	7.60	4.12	7.60	5.56	3.21	1.65
11	1.88	0.80	0.80	0.65	0.50	1.82	5.83	4.96	6.40	5.20	3.35	1.65
12	2.79	0.80	1.50	0.68	0.62	2.18	5.12	5.38	5.74	4.88	3.14	1.65
13	2.24	0.80	3.49	0.65	0.71	3.98	17	9.09	5.29	4.48	3.00	1.55
14	1.82	0.80	3.98	0.59	0.68	3.28	23	7.30	5.56	4.26	2.93	1.45
15	3.77	0.80	3.70	0.59	0.84	2.18	18	7.50	22	4.19	2.93	1.45
16	2.93	0.77	2.51	0.56	0.92	1.70	13	8.32	76	4.05	3.63	1.40
17	2.18	0.77	1.70	0.56	0.80	1.88	9.97	8.76	191	26	4.56	1.30
18	1.82	0.74	2.30	0.56	0.71	1.94	12	7.30	166	17	3.70	1.25
19	1.45	0.71	1.88	0.53	0.65	2.58	10	7.50	98	17	3.28	1.25
20	1.20	0.68	1.76	0.53	0.65	2.72	8.43	9.20	57	11	3.00	1.20
21	1.20	0.68	2.51	0.53	0.74	2.24	7.40	10	39	8.32	2.79	1.20
22	1.16	0.74	2.00	0.53	0.74	5.04	6.10	9.86	30	7.00	2.72	1.16
23	1.16	0.71	1.45	0.50	0.65	3.91	5.56	26	22	6.10	2.58	1.08
24	1.30	0.71	1.35	0.53	0.77	2.65	5.12	30	18	5.56	2.51	1.08
25	1.40	0.71	1.25	0.50	1.76	2.44	4.40	25	15	5.12	2.44	1.04
26	1.25	1.08	1.08	0.50	1.35	9.75	4.12	17	13	4.80	2.44	1.08
27	1.16	0.92	1.00	0.50	1.50	21	4.19	13	12	4.76	2.65	1.30
28	1.08	1.12	0.92	0.48	1.82	18	3.98	15	10	4.33	2.51	1.16
29	1.00	0.96	0.92	0.46	1.40	22	3.91	13	9.53	4.19		1.16
30	0.96	0.77	0.96	0.46	1.30	17	8.00	10	8.65	3.91		1.12
31		0.71		0.50	1.12		37		8.00	4.72		1.20
Total	48.03	26.91	43.89	18.85	25.11	140.04	333.54	329.58	968.68	221.10	91.23	46.02
Mean	1.60	0.87	1.46	0.61	0.81	4.67	10.7	11.0	30.9	7.13	3.26	1.48
Max.	3.77	1.20	3.98	0.96	1.82	22	37	30	191	26	4.96	2.30
Min.	0.96	0.68	0.65	0.46	0.44	0.80	3.91	4.12	5.29	3.91	2.44	1.04
Runoff - mcm.	4.150	2.325	3.792	1.629	2.169	12.099	28.818	28.476	82.830	19.103	7.882	3.976

WATER YEAR 1972 : Max. 191 Min. 0.44 Mean 6.25 Annual Runoff 197.249 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec 17	18.00	9.16	225				

PATTANI RIVER BASIN

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.

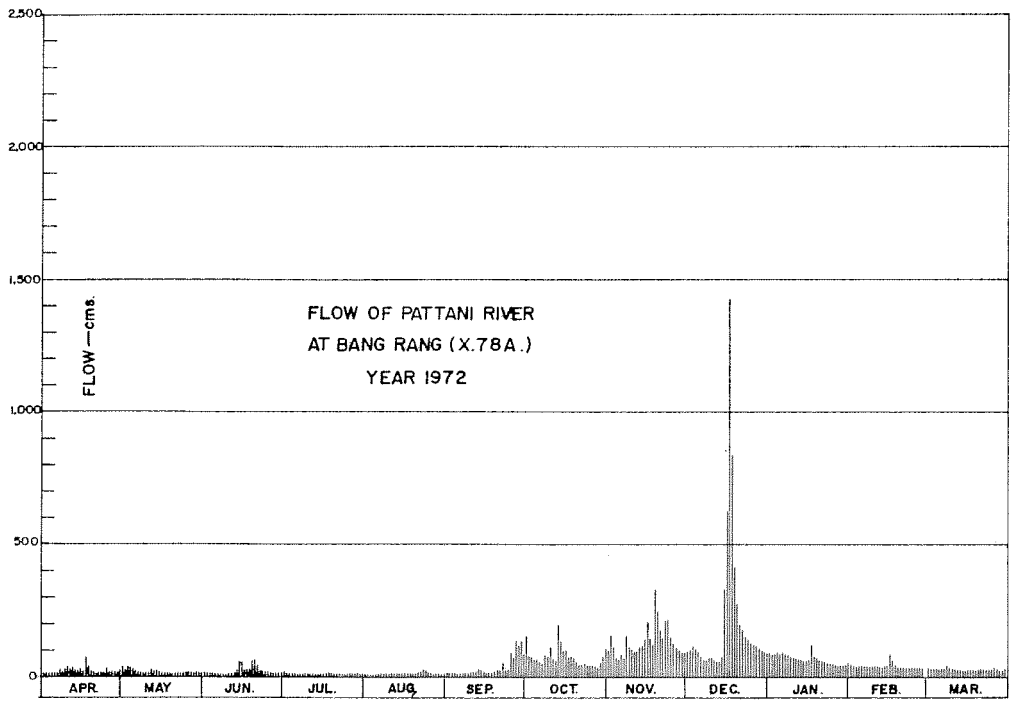
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 191 discharge measurements made in 1972.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	43.22	43.60	43.19	43.42	43.18	43.24	44.59	44.18	44.20	44.13	43.74	43.54
2	.22	.41	.29	.23	.15	.20	43.99	.61	.21	.10	.66	.53
3	.21	.61	.19	.21	.12	.19	.99	.35	.36	.16	.66	.52
4	.21	.61	.26	.20	.12	.19	.86	43.99	.27	.17	.65	.51
5	.19	.50	.24	.20	.12	.13	.91	.86	.21	.09	.64	.50
6	43.25	43.46	43.18	43.21	43.12	43.20	43.77	44.09	43.98	44.17	43.64	43.50
7	.50	.39	.15	.17	.11	.30	.65	43.89	.91	.10	.63	.50
8	.33	.30	.17	.17	.10	.21	44.04	44.63	.93	.06	.62	.63
9	.58	.28	.16	.17	.10	.15	43.96	.31	.95	.04	.62	.51
10	.64	.25	.15	.17	.15	.24	44.33	.25	44.00	.00	.63	.49
11	43.48	43.26	43.15	43.16	43.16	43.31	43.89	44.18	43.87	43.97	43.63	43.48
12	.58	.51	.25	.16	.14	.42	.82	43.99	.82	.94	.62	.46
13	.42	.40	.46	.16	.19	.40	44.89	44.25	.81	.92	.61	.46
14	.40	.44	.74	.17	.17	.46	.46	.32	44.02	.90	.58	.46
15	.50	.30	.81	.15	.27	.33	.20	.52	45.37	.88	.61	.45
16	43.23	43.24	43.44	43.14	43.19	43.27	44.21	44.98	46.47	43.88	44.04	43.45
17	44.03	.23	.51	.15	.17	.31	43.98	.45	49.17	44.36	43.84	.43
18	43.57	.21	.40	.34	.16	.30	44.04	.30	47.30	43.98	.67	.44
19	.37	.19	.90	.21	.17	.42	43.95	45.64	45.56	.98	.61	.45
20	.29	.18	.89	.20	.17	.41	.79	.09	.18	.92	.60	.44
21	43.25	43.21	43.77	43.18	43.22	43.37	43.70	44.72	44.90	43.86	43.58	43.44
22	.23	.19	.40	.18	.39	.81	.63	.54	.79	.81	.57	.45
23	.25	.25	.36	.18	.29	.46	.82	45.05	.61	.79	.54	.44
24	.30	.29	.40	.18	.42	.43	.74	44.98	.48	.78	.55	.42
25	.55	.33	.37	.18	.30	44.10	.60	.55	.39	.75	.56	.41
26	43.30	43.38	43.30	43.18	43.18	43.90	43.68	44.40	44.40	43.74	43.59	43.54
27	.46	.30	.30	.18	.18	44.57	.62	.28	.35	.72	.59	.48
28	.30	.28	.27	.18	.19	.34	.55	.22	.28	.71	.55	.43
29	.31	.22	.27	.18	.17	.46	.77	.16	.23	.70		.42
30	.40	.19	.29	.18	.12	.06	.86	.20	.18	.69		.42
31		.19		.18	.12		44.22		.15	.77		.48
Mean	43.38	43.33	43.37	43.19	43.18	43.51	43.95	44.43	44.66	43.94	43.64	43.47
Max.	44.03	43.61	43.90	43.42	43.42	44.57	44.89	45.64	49.17	44.36	44.04	42.54
Min.	43.19	43.18	43.15	43.14	43.10	43.13	43.55	43.86	43.81	43.69	43.54	43.41

WATER YEAR 1972 : Max. 49.17 m. Min. 43.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	39	13	25	12	15	151	97	99	91	51	34
2	14	25	17	14	11	13	75	153	100	87	44	33
3	13	40	13	13	9.80	13	75	118	120	94	44	33
4	13	40	16	13	9.80	13	62	75	108	95	43	32
5	13	31	15	13	9.80	10	67	62	100	86	42	31
6	15	28	12	13	9.80	13	53	86	74	95	42	31
7	31	23	11	12	9.40	18	43	65	67	87	41	31
8	20	18	12	12	9.00	13	80	156	69	83	41	41
9	37	17	11	12	9.00	11	72	113	71	80	41	32
10	42	15	11	12	11	15	116	105	76	76	41	30
11	30	16	11	11	11	19	65	97	63	73	41	30
12	37	32	15	11	11	25	58	75	58	70	41	28
13	25	24	28	11	13	24	193	105	57	68	40	28
14	24	27	51	12	12	28	133	115	78	66	37	28
15	31	18	57	11	16	20	99	141	276	64	40	27
16	14	15	27	11	13	16	100	208	534	64	80	27
17	79	14	32	11	12	19	74	131	1,421	120	60	26
18	37	13	24	20	11	18	80	112	770	74	45	27
19	22	13	66	13	12	25	71	332	315	74	40	27
20	17	12	65	13	12	25	55	225	241	68	39	27
21	15	13	53	12	14	22	47	169	195	62	37	27
22	14	13	24	12	23	57	41	144	179	57	37	27
23	15	15	22	12	23	28	58	219	153	55	34	27
24	18	17	24	12	25	26	51	208	135	54	35	25
25	35	20	22	12	18	87	39	145	124	51	36	25
26	18	23	18	12	12	66	45	125	125	51	38	34
27	28	18	18	12	12	148	41	109	118	49	38	30
28	18	17	16	12	13	117	35	102	109	48	35	26
29	19	14	16	12	12	133	53	94	103	47		25
30	24	13	17	12	9.80	83	62	99	97	46		25
31		13		12	9.80		102		93	53		30
Total	732	636	737	395	395.20	1,120	2,296	3,985	6,128	2,188	1,183	904
Mean	24.4	20.5	24.6	12.7	12.7	37.3	74.1	133	198	70.6	42.2	29.2
Max.	79	40	66	25	25	148	193	332	1,421	120	80	34
Min.	13	12	11	11	9.00	10	35	62	57	46	34	25
Runoff - mcm.	63.245	54.950	63.677	34.128	34.145	96.768	198.374	344.304	529.459	189.043	102.211	78.106

WATER YEAR 1972 : Max. 1,421 Min. 9.00 Mean 56.7 Annual Runoff 1,788.411 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec 17	10.00	50.28	1,850				

KHLONG CHUMPHON RIVER BASIN

Khlong Chumphon at Ban Saip Yuan, Chumphon (X53)

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.

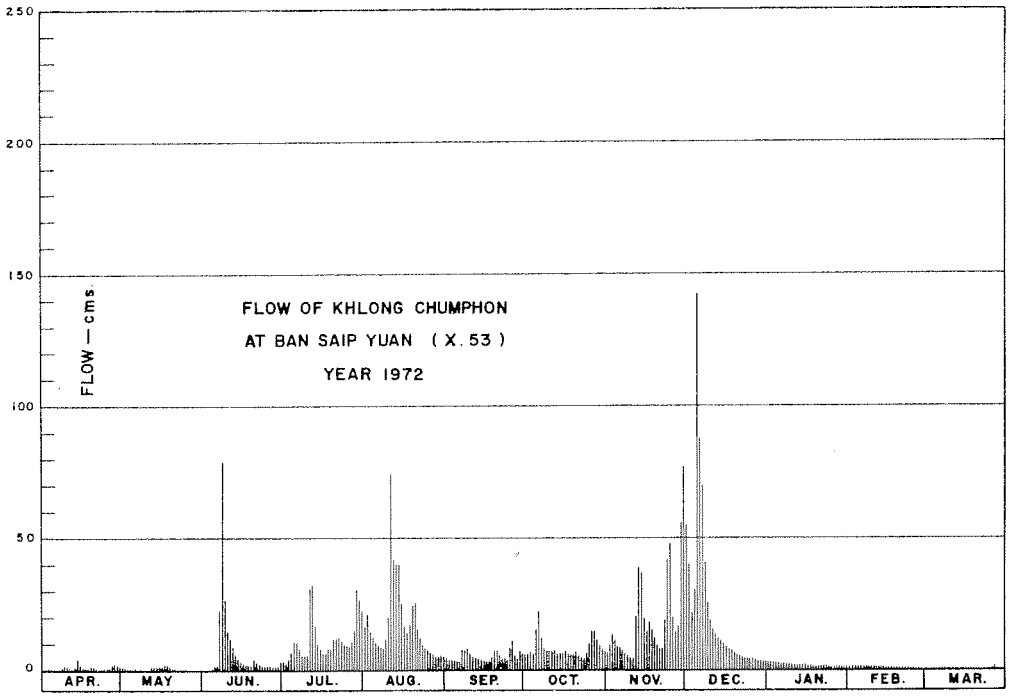
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 183 discharge measurements made in 1973.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.57	0.58	0.51	0.81	1.42	0.87	0.97	0.99	2.38	0.80	0.66	0.58
2	.57	.58	.52	.76	.60	.85	.96	1.19	1.97	.79	.66	.58
3	.56	.56	.54	.84	.38	.85	1.02	.34	.61	.78	.64	.58
4	.54	.54	.54	1.03	.30	.83	0.96	.25	.87	.78	.64	.58
5	.54	.54	.69	.24	.18	.81	1.45	.12	4.10	.77	.63	.58
6	0.54	0.53	0.98	1.21	1.13	0.82	1.62	1.08	2.88	0.76	0.63	0.58
7	.54	.55	1.59	.08	.13	1.07	.19	.03	.80	.76	.64	.58
8	.61	.57	2.98	0.95	.06	.05	.08	0.97	.12	.75	.63	.57
9	.69	.54	1.77	.91	.28	.09	.01	.93	1.77	.74	.68	.57
10	.64	.53	.36	.95	.62	0.96	.01	.90	.54	.73	.65	.57
11	0.60	0.56	1.25	1.86	2.90	0.91	1.02	0.90	1.41	0.72	0.64	0.57
12	.57	.69	.68	.92	.16	.89	.02	1.60	.33	.72	.62	.57
13	.61	.66	0.96	.42	.11	.85	0.98	2.10	.26	.72	.61	.56
14	.86	.63	.87	.16	.15	.84	1.01	.03	.21	.71	.61	.57
15	.70	.64	.80	.08	1.64	.83	0.99	1.52	.15	.71	.61	.56
16	0.62	0.64	0.75	0.98	1.43	0.81	1.03	1.36	1.10	0.70	0.61	0.55
17	.60	.71	.71	.98	.34	.83	0.98	.50	.06	.69	.60	.57
18	.57	.72	.68	1.08	.42	.90	.96	.37	.03	.69	.60	.58
19	.67	.63	.70	.06	.71	1.03	.96	.24	.00	.69	.60	.57
20	.62	.58	.87	.24	.73	.04	1.01	.15	0.97	.68	.60	.56
21	0.58	0.66	0.77	1.23	1.44	0.95	0.93	1.07	0.94	0.68	0.60	0.56
22	.56	.55	.73	.29	.28	.89	.90	.06	.92	.67	.60	.54
23	.55	.55	.68	.23	.17	.90	.89	.47	.90	.67	.60	.54
24	.54	.52	.66	.17	.09	.85	.97	2.17	.89	.66	.59	.54
25	.53	.52	.64	.11	.04	1.06	1.25	.31	.88	.65	.59	.54
26	0.58	0.52	0.67	1.11	0.99	1.23	1.37	1.53	0.86	0.65	0.59	0.56
27	.70	.52	.69	.19	.95	0.95	.36	.37	.85	.68	.59	.62
28	.74	.52	.65	.36	.93	.90	.24	.44	.84	.67	.59	.57
29	.65	.53	.67	.88	.92	1.03	.14	2.35	.82	.68	-	.56
30	.60	.53	.78	.74	.93	0.95	.14	.95	.81	.69	-	.54
31	-	.52	-	.64	0.94	-	0.98	-	.81	.67	-	.53
Mean	0.60	0.57	0.90	1.21	1.30	0.98	1.07	1.47	1.42	0.73	0.61	0.56
Max.	0.86	0.72	2.98	1.92	2.90	1.23	1.62	2.95	4.10	0.80	0.68	0.62
Min.	0.53	0.52	0.51	0.76	0.92	0.81	0.89	0.90	0.81	0.65	0.59	0.53

WATER YEAR 1972 : Max. 4.10 m. Min. 0.51 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.90	0.55	3.65	17	4.55	6.40	6.80	51	3.50	1.60	0.90
2	0.85	0.90	0.60	2.90	22	4.25	6.20	11	34	3.35	1.60	0.90
3	0.80	0.80	0.70	4.10	15	4.25	7.40	14	22	3.20	1.40	0.90
4	0.70	0.70	0.70	7.60	13	3.95	6.20	12	31	3.20	1.40	0.90
5	0.70	0.70	1.90	12	11	3.65	17	9.40	143	3.05	1.30	0.90
6	0.70	0.65	1.80	11	9.60	3.80	23	8.60	74	2.90	1.30	0.90
7	0.70	0.75	22	8.60	9.60	8.40	11	7.60	70	2.90	1.40	0.90
8	1.10	0.85	79	6.00	8.20	8.00	8.60	6.40	40	2.75	1.30	0.85
9	1.90	0.70	27	5.20	13	8.88	7.20	5.60	27	2.60	1.80	0.85
10	1.40	0.65	15	6.00	23	6.20	7.20	5.00	20	2.45	1.50	0.85
11	1.00	0.80	12	31	75	5.20	7.40	5.00	16	2.30	1.40	0.85
12	0.85	1.90	8.60	33	42	4.85	7.40	22	14	2.30	1.20	0.85
13	1.10	1.60	6.20	17	40	4.25	6.60	39	12	2.30	1.10	0.80
14	4.40	1.30	4.55	10	41	4.10	7.00	37	11	2.15	1.10	0.85
15	2.00	1.40	3.50	8.60	23	3.95	6.80	20	10	2.15	1.10	0.80
16	1.20	1.40	2.75	6.60	17	3.65	7.60	15	9.00	2.00	1.10	0.75
17	1.00	2.15	2.15	6.60	14	3.95	6.60	19	8.20	1.90	1.00	0.85
18	0.85	2.30	1.80	8.60	17	5.00	6.20	15	7.60	1.90	1.00	0.90
19	1.70	1.30	2.00	8.20	25	7.60	6.20	12	7.00	1.90	1.00	0.85
20	1.20	0.90	4.55	12	26	7.80	7.20	10	6.40	1.80	1.00	0.80
21	0.90	0.80	3.05	12	17	6.00	5.60	8.40	5.80	1.80	1.00	0.80
22	0.80	0.75	2.45	13	13	4.85	5.00	8.20	5.40	1.70	1.00	0.70
23	0.75	0.75	1.80	12	10	5.00	4.85	18	5.00	1.70	1.00	0.70
24	0.70	0.60	1.60	10	8.80	4.25	6.40	42	4.85	1.60	0.95	0.70
25	0.65	0.60	1.40	9.20	7.80	8.20	12	48	4.70	1.50	0.95	0.70
26	0.90	0.60	1.70	9.20	6.80	12	15	20	4.40	1.50	0.95	0.80
27	2.00	0.60	1.90	11	6.00	6.00	15	15	4.25	1.80	0.95	1.20
28	2.60	0.60	1.50	15	5.60	5.00	12	17	4.10	1.70	0.95	0.85
29	1.50	0.65	1.70	31	5.40	7.60	9.80	49	3.80	1.80	–	0.80
30	1.00	0.65	3.20	26	5.60	6.00	9.80	77	3.65	1.90	–	0.70
31	–	0.60	–	23	5.80	–	6.60	–	3.65	1.70	–	0.65
Total	36.80	29.85	217.65	380.05	553.20	171.18	271.25	583.00	662.80	69.30	33.35	25.75
Mean	1.22	0.96	7.25	12.25	17.8	5.70	8.75	19.4	21.3	2.23	1.19	0.83
Max.	4.40	2.30	79	33	75	12	23	77	143	3.50	1.80	1.20
Min.	0.65	0.60	0.55	2.90	5.40	3.65	4.85	5.00	3.65	1.50	0.95	0.65
Runoff – mcm.	3.179	2.579	18.804	32.836	47.796	14.789	23.436	50.371	57.265	5.987	2.881	2.224

WATER YEAR 1972 : Max. 143 Min. 0.55 Mean 8.31 Annual Runoff 262.153 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.5,	10.00	4.44	165				

KHLONG THA DI RIVER BASIN

Khlong Tha Di at Ban Na Kam, Nakhon Si Thammarat (X55)

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. - M.S.

Location: BM1 near the staff gage, BM2 on right bank at abutment of the bridge.
Elevation: BM1 = + 3.798 m. (A.D.), BM2 = + 6.706 m. (A.D.)

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: 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.

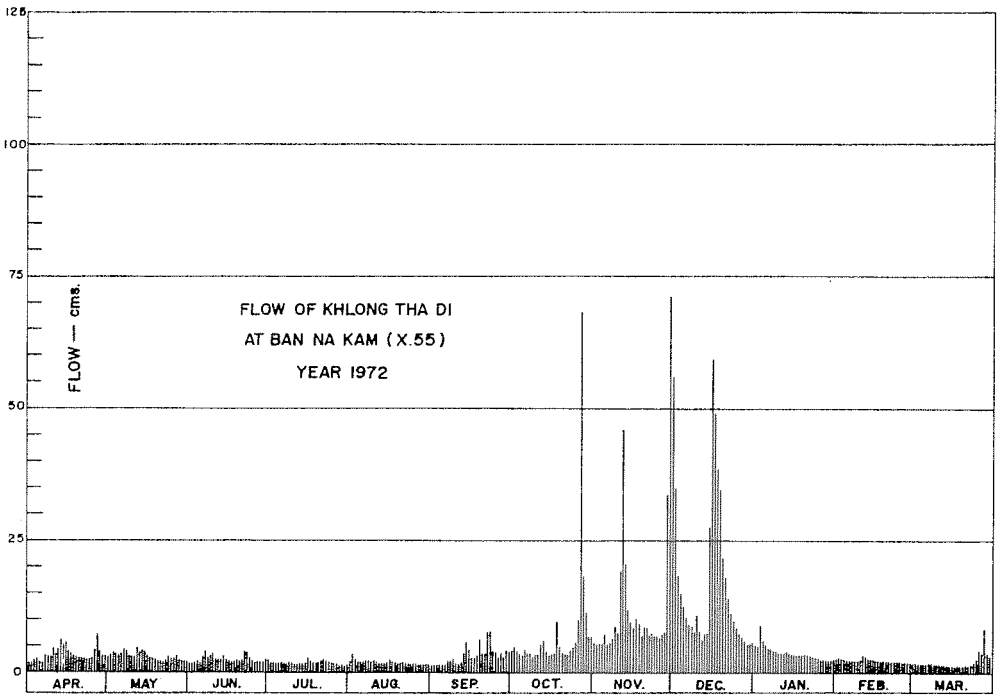
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 96 discharge measurements made in 1971.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.41	0.47	0.41	0.43	0.43	0.37	0.55	0.64	2.59	0.62	0.50	0.40
2	.41	.52	.41	.42	.53	.37	.60	.62	1.55	.60	.48	.40
3	.45	.54	.40	.41	.44	.37	.52	.62	.19	.80	.47	.39
4	.42	.51	.43	.40	.43	.38	.51	.63	.02	.67	.46	.39
5	.41	.50	.41	.39	.42	.38	.50	.73	0.94	.63	.45	.39
6	0.41	0.53	0.46	0.43	0.40	0.38	0.57	0.61	0.86	0.61	0.44	0.38
7	.51	.58	.55	.41	.45	.44	.53	.65	.82	.59	.44	.38
8	.49	.56	.46	.40	.44	.44	.53	.68	.82	.57	.44	.39
9	.47	.51	.51	.43	.43	.48	.48	.81	.74	.55	.44	.38
10	.60	.50	.53	.42	.45	.41	.51	.72	.91	.54	.44	.38
11	0.50	0.48	0.47	0.41	0.43	0.41	0.50	1.15	0.72	0.53	0.52	0.38
12	.62	.61	.46	.40	.41	.41	.64	2.19	.67	.52	.49	.37
13	.69	.52	.44	.39	.40	.53	.66	1.24	.74	.55	.47	.37
14	.62	.56	.50	.41	.39	.65	.55	0.96	.77	.53	.46	.37
15	.66	.52	.45	.40	.42	.52	.51	.84	2.31	.53	.46	.37
16	0.56	0.50	0.44	0.47	0.45	0.48	0.51	0.80	2.60	0.52	0.45	0.36
17	.52	.48	.43	.43	.43	.46	.51	.90	.23	.52	.44	.36
18	.51	.47	.42	.44	.42	.50	.85	.83	1.95	.51	.44	.36
19	.50	.45	.44	.43	.40	.68	.60	.72	.78	.51	.44	.36
20	.48	.44	.42	.43	.39	.50	.51	.80	.26	.53	.43	.36
21	0.47	0.44	0.44	0.44	0.43	0.51	0.52	0.81	1.12	0.51	0.43	0.38
22	.46	.43	.55	.45	.41	.76	.49	.72	0.90	.50	.42	.38
23	.45	.44	.54	.44	.40	.75	.56	.73	.90	.49	.42	.38
24	.45	.51	.47	.43	.39	.55	.60	.72	.83	.48	.42	.42
25	.46	.44	.43	.42	.39	.54	.63	.72	.80	.47	.42	.45
26	0.60	0.47	0.42	0.41	0.39	0.46	0.88	0.69	0.74	0.46	0.41	0.57
27	.74	.49	.43	.40	.38	.52	2.88	.74	.72	.46	.41	.55
28	.54	.44	.43	.44	.38	.45	1.24	.75	.67	.45	.41	.79
29	.50	.43	.42	.45	.37	.56	0.91	1.88	.65	.45	-	.53
30	.48	.42	.45	.43	.41	.53	.71	2.97	.62	.45	-	.50
31	-	.42	-	.44	.38	-	.72	-	.64	.45	-	.45
Mean	0.51	0.49	0.45	0.42	0.41	0.49	0.69	0.93	1.13	0.53	0.45	0.42
Max.	0.74	0.61	0.55	0.47	0.53	0.76	2.88	2.97	2.60	0.80	0.52	0.79
Min.	0.41	0.42	0.41	0.39	0.37	0.37	0.48	0.61	0.62	0.45	0.41	0.36

WATER YEAR 1972 : Max. 2.97 m. Min. 0.36 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.94	2.78	1.94	2.22	2.22	1.50	4.00	5.52	59	5.16	3.20	1.80
2	1.94	3.52	1.94	2.08	3.68	1.50	4.80	5.16	27	4.80	2.92	1.80
3	2.50	3.84	1.80	1.94	2.36	1.50	3.52	5.16	17	8.50	2.78	1.70
4	2.08	3.36	2.22	1.80	2.22	1.60	3.36	5.34	13	6.06	2.64	1.70
5	1.94	3.20	1.94	1.70	2.08	1.60	3.20	7.17	11	5.34	2.50	1.70
6	1.94	3.68	2.64	2.22	1.80	1.60	4.32	4.98	9.76	4.98	2.36	1.60
7	3.36	4.48	4.00	1.94	2.50	2.36	3.68	5.70	8.92	4.64	2.36	1.60
8	3.06	4.16	2.64	1.80	2.36	2.36	3.68	6.24	8.92	4.32	2.36	1.70
9	2.78	3.36	3.36	2.22	2.22	2.92	2.92	8.71	7.36	4.00	2.36	1.60
10	4.80	3.20	3.68	2.08	2.50	1.94	3.36	6.98	11	3.84	2.36	1.60
11	3.20	2.92	2.78	1.94	2.22	1.94	3.20	16	6.98	3.68	3.52	1.60
12	5.16	4.98	2.64	1.80	1.94	1.94	5.52	46	6.06	3.52	3.06	1.50
13	6.42	3.52	2.36	1.70	1.80	3.68	5.88	19	7.36	4.00	2.78	1.50
14	5.16	4.16	3.20	1.94	1.70	5.70	4.00	12	7.93	3.68	2.64	1.50
15	5.88	3.52	2.50	1.80	2.08	3.52	3.36	9.34	49	3.68	2.64	1.50
16	4.16	3.20	2.36	2.78	2.50	2.92	3.36	8.50	59	3.52	2.50	1.40
17	3.52	2.92	2.22	2.22	2.22	2.64	3.36	10	47	3.52	2.36	1.40
18	3.36	2.78	2.08	2.36	2.08	3.20	9.55	9.13	39	3.36	2.36	1.40
19	3.20	2.50	2.36	2.22	1.80	6.24	4.80	6.98	34	3.36	2.36	1.40
20	2.92	2.36	2.08	2.22	1.70	3.20	3.36	8.50	19	3.68	2.22	1.40
21	2.78	2.36	2.36	2.36	2.22	3.36	3.52	8.71	16	3.36	2.22	1.60
22	2.64	2.22	4.00	2.50	1.94	7.74	3.06	6.98	11	3.20	2.08	1.60
23	2.50	2.36	3.84	2.36	1.80	7.55	4.16	7.17	11	3.06	2.08	1.60
24	2.50	3.36	2.78	2.22	1.70	4.00	4.80	6.98	9.13	2.92	2.08	2.08
25	2.64	2.36	2.22	2.08	1.70	3.84	5.34	6.98	8.50	2.78	2.08	2.50
26	4.80	2.78	2.08	1.94	1.70	2.64	10	6.42	7.36	2.64	1.94	4.32
27	7.36	3.06	2.22	1.80	1.60	3.52	68	7.36	6.98	2.64	1.94	4.00
28	3.84	2.36	2.22	2.36	1.60	2.50	19	7.55	6.06	2.50	1.94	8.31
29	3.20	2.22	2.08	2.50	1.50	4.16	11	37	5.70	2.50	–	3.68
30	2.92	2.08	2.50	2.22	1.94	3.68	6.79	71	5.16	2.50	–	3.20
31	–	2.08	–	2.36	1.60	–	6.98	–	5.52	2.50	–	2.50
Total	104.50	95.68	77.04	65.68	63.28	96.85	225.88	372.56	540.70	118.24	68.64	66.79
Mean	3.48	3.09	2.57	2.12	2.04	3.23	7.29	12.4	17.4	3.81	2.45	2.15
Max.	7.36	4.98	4.00	2.78	3.68	7.74	68	71	59	8.50	3.52	8.31
Min.	1.94	2.08	1.94	1.70	1.50	1.50	2.92	4.98	5.16	2.50	1.94	1.40
Runoff - mcm.	9.029	8.267	6.656	5.675	5.467	8.368	19.516	32.189	46.716	10.216	5.930	5.771

WATER YEAR 1972 : Max. 71 Min. 1.40 Mean 5.19 Annual Runoff 163.800 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.30,	21.00	4.44	128				

TRANG RIVER BASIN

Trang River at Ban Pradu Tai, Trang (X56)

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.

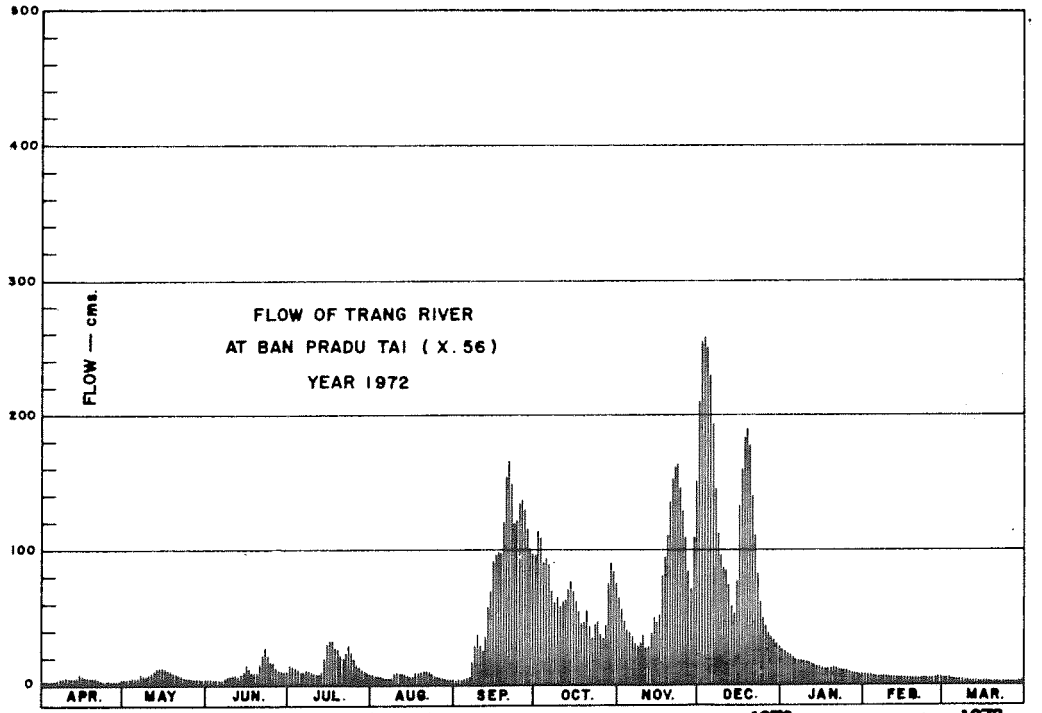
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 510 discharge measurements made during 1966–68.

GAGE HEIGHT IN METER (A. D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.40	1.46	1.42	2.03	1.70	1.47	4.87	3.94	7.38	2.55	1.72	1.53
2	.40	.45	.40	1.99	.67	.48	5.37	.62	.72	.50	.73	.51
3	.41	.50	.40	.97	.64	.48	.28	.36	.74	.45	.73	.49
4	.40	.51	.39	.83	.59	.49	4.71	.15	.68	.41	.71	.48
5	.43	.56	.39	.82	.55	.55	.82	.05	.52	.38	.69	.47
6	1.42	1.55	1.40	1.81	1.52	1.61	4.66	2.94	7.16	2.32	1.68	1.45
7	.46	.72	.39	.86	.50	.90	.10	.78	6.42	.27	.66	.45
8	.50	.67	.47	.84	.56	2.62	3.86	.66	5.51	.24	.64	.44
9	.56	.62	.62	.81	.82	.98	.97	.79	4.93	.21	.63	.43
10	.51	.68	.64	.75	.81	.74	.76	.99	.63	.19	.62	.43
11	1.49	1.77	1.64	1.73	1.77	2.53	3.90	2.61	4.54	2.15	1.61	1.42
12	.52	.86	.62	.70	.70	.92	.93	.66	.14	.10	.60	.42
13	.52	.96	.72	.80	.64	3.64	4.20	3.03	3.76	.07	.59	.41
14	.72	.93	.81	2.17	.60	4.29	.32	.48	.56	.04	.57	.41
15	.68	.92	2.07	.75	.58	.75	.12	.35	4.28	.00	.56	.42
16	1.59	1.89	1.91	2.87	1.67	4.92	3.88	3.47	5.77	1.99	1.56	1.42
17	.59	.87	.82	.83	.76	.97	.61	4.35	6.53	.96	.56	.43
18	.54	.82	.78	.57	.76	.89	.32	.82	.85	.94	.56	.42
19	.51	.76	.76	.57	.81	5.52	.38	5.16	.94	.94	.56	.40
20	.48	.72	2.03	.37	.86	6.33	.70	.83	.75	.94	.55	.39
21	1.45	1.67	2.35	2.28	1.86	6.55	3.28	6.25	6.11	1.93	1.54	1.39
22	.43	.62	.61	.47	.82	.24	2.89	.47	5.19	.90	.53	.39
23	.42	.58	.43	.69	.75	5.54	3.31	.49	4.37	.88	.53	.38
24	.41	.54	.21	.51	.69	.57	.35	.25	3.80	.85	.52	.38
25	.40	.52	.16	.27	.63	.90	.02	5.75	.45	.84	.52	.37
26	1.40	1.52	1.95	2.09	1.58	5.94	2.89	5.20	3.24	1.82	1.50	1.36
27	.38	.49	.85	1.98	.53	.80	3.28	4.52	.08	.79	.53	.36
28	.40	.48	.85	.92	.50	.42	4.39	.20	2.95	.77	.59	.39
29	.41	.48	.81	.86	.48	4.98	.73	5.19	.85	.76	–	.41
30	.44	.46	.81	.79	.46	.88	.58	6.33	.74	.74	–	.43
31	–	.43	–	.74	.47	–	.30	–	.64	.72	–	.44
Mean	1.47	1.64	1.82	1.12	1.65	4.03	3.99	4.22	5.17	2.05	1.60	1.42
Max.	1.72	1.96	2.61	2.87	1.86	6.55	5.37	6.49	7.74	2.55	1.73	1.53
Min.	1.38	1.43	1.39	1.70	1.46	1.47	2.89	2.61	2.64	1.72	1.50	1.36

WATER YEAR 1972 : Max. 7.74 m. Min. 1.36 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.50	4.40	3.80	15	8.00	4.55	96	65	221	26	8.60	5.45
2	3.50	4.25	3.50	14	7.55	4.70	114	55	255	25	8.60	5.15
3	3.65	5.00	3.50	13	7.10	4.70	110	47	258	24	8.60	4.85
4	3.50	5.15	3.40	11	6.35	4.85	90	41	251	23	8.20	4.70
5	3.95	5.90	3.40	10	5.75	5.75	94	39	234	22	7.85	4.55
6	3.80	5.75	3.50	10	5.30	6.65	89	36	204	20	7.70	4.25
7	4.40	8.40	3.40	11	5.00	12	69	32	160	19	7.40	4.25
8	5.00	7.55	4.55	11	5.90	28	62	29	119	19	7.10	4.10
9	5.90	6.80	6.80	10	10	37	66	32	98	18	6.95	3.95
10	5.15	7.70	7.10	9.00	10	31	59	37	87	18	6.80	3.95
11	4.85	9.40	7.10	8.60	9.40	26	63	28	84	17	6.65	3.80
12	5.30	11	6.80	8.00	8.00	35	64	29	71	16	6.50	3.80
13	5.30	13	8.40	10	7.10	56	72	38	59	15	6.35	3.65
14	8.40	13	10	17	6.50	76	77	51	53	15	6.05	3.65
15	7.70	12	15	31	6.20	92	70	47	75	14	5.90	3.80
16	6.35	12	12	34	6.05	98	63	51	130	14	5.90	3.80
17	6.35	11	10	33	9.20	99	55	78	165	13	5.90	3.95
18	5.60	10	9.60	27	9.20	97	46	94	183	13	5.90	3.80
19	5.15	9.20	9.20	27	10	120	48	106	189	13	5.90	3.50
20	4.70	8.40	15	22	11	155	57	132	177	13	5.75	3.40
21	4.25	7.55	21	20	11	166	45	151	144	13	5.60	3.40
22	3.95	6.80	28	24	10	151	35	162	107	12	5.45	3.40
23	3.80	6.20	23	30	9.00	121	46	163	78	12	5.45	3.30
24	3.65	5.60	18	25	7.85	122	47	151	60	11	5.30	3.30
25	3.50	5.30	17	19	6.95	135	38	129	50	11	5.30	3.20
26	3.50	5.30	13	16	6.20	137	35	107	44	10	5.00	3.10
27	3.30	4.85	11	14	5.45	131	45	84	39	9.80	5.45	3.10
28	3.50	4.70	11	12	5.00	116	79	72	36	9.40	6.35	3.40
29	3.65	4.70	10	11	4.70	100	91	107	34	9.20	–	3.65
30	4.10	4.40	10	9.80	4.40	96	86	155	31	8.80	–	3.95
31	–	3.95	–	8.80	4.55	–	76	–	28	8.40	–	4.10
Total	139.25	229.25	308.05	521.20	228.70	2,268.20	2,087.00	2,348	3,724	471.60	182.50	120.25
Mean	4.64	7.39	10.3	16.8	7.38	75.6	67.3	78.3	120	15.2	6.52	3.88
Max.	8.40	13	28	34	11	166	114	163	258	26	8.60	5.45
Min.	3.30	3.95	3.40	8.00	4.40	4.55	35	28	28	8.40	5.00	3.10
Runoff - mcm.	12.031	19.807	26.615	45.032	19.760	195.972	180.317	202.867	321.754	40.746	15.768	10.390

WATER YEAR 1972 : Max. 258 Min. 3.10 Mean 34.6 Annual Runoff 1,091.059 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.3, 72	1.00	7.75	259				

KHLONG THA KHAE RIVER BASIN

Khlong Tha Khae at Tambon Tha Khae, Phatthalung (X68)

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: 1967-1972
Rated by Float: –
Rated by Current Meter: 1967-1972

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

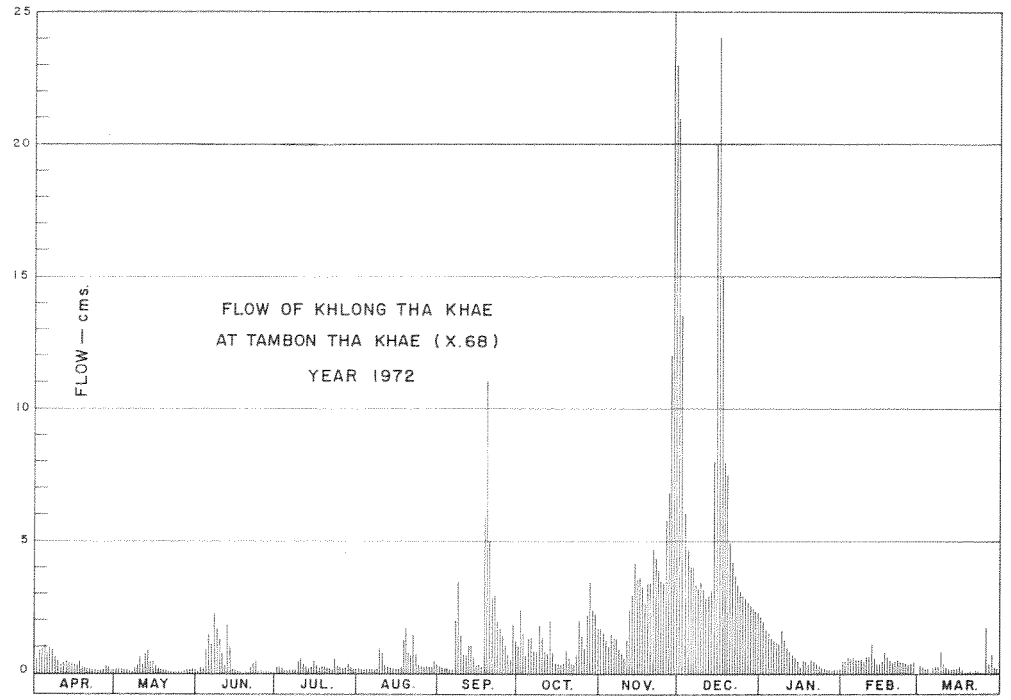
Overbank Flow Conditions: No overbank flow.

General Description: Records good. The data presented by 8 discharge measurements in 1972.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.36	0.23	0.20	0.29	0.25	0.29	0.46	0.58	2.39	0.66	0.36	0.30
2	.45	.25	.27	.28	.23	.27	.70	.57	1.41	.62	.35	.28
3	.45	.23	.21	.26	.23	.25	.47	.51	.14	.57	.38	.23
4	.48	.22	.42	.20	.22	.29	.40	.46	.02	.56	.36	.27
5	.42	.21	.54	.19	.22	.21	.53	.55	0.92	.53	.38	.18
6	0.46	0.20	0.48	0.20	0.22	0.22	0.52	0.52	0.92	0.51	0.37	0.28
7	.45	.19	.67	.20	.22	.60	.42	.52	.85	.50	.37	.28
8	.39	.22	.58	.20	.23	.84	.42	.45	.82	.48	.37	.30
9	.35	.29	.57	.33	.45	.54	.60	.41	.84	.58	.34	.42
10	.31	.38	.45	.36	.43	.40	.51	.36	.81	.51	.39	.32
11	0.34	0.32	0.26	0.31	0.32	0.39	0.42	0.49	0.77	0.46	0.38	0.26
12	.35	.41	.60	.27	.29	.47	.40	.70	.78	.44	.49	.25
13	.33	.44	.41	.24	.27	.47	.63	.76	.81	.40	.36	.24
14	.33	.34	.24	.25	.26	.38	.42	.93	1.03	.38	.31	.23
15	.31	.34	.20	.35	.25	.30	.32	.87	2.36	.36	.31	.23
16	0.31	0.27	0.17	0.31	0.25	0.31	0.32	0.88	2.70	0.27	0.34	0.29
17	.34	.22	.17	.26	.25	.29	.31	.79	1.79	.37	.42	0.21
18	.28	.21	.16	.29	.50	.75	.34	.74	.34	.35	.38	.17
19	.27	.21	.16	.29	.58	1.67	.44	.86	.29	.32	.35	.17
20	.25	.20	.15	.26	.42	.02	.37	.85	.04	.37	.34	.20
21	0.23	0.20	0.25	0.24	0.39	0.77	0.31	1.00	0.96	0.35	0.33	0.19
22	.22	.18	.31	.23	.54	.78	.30	0.94	.90	.33	.35	.21
23	.21	.18	.34	.36	.39	.62	.42	.91	.85	.31	.33	.21
24	.21	.17	.19	.27	.30	.58	.63	.84	.80	.28	.33	.17
25	.21	.19	.20	.25	.26	.55	.53	.85	.78	.27	.32	.16
26	0.23	0.18	0.17	0.25	0.29	0.48	0.45	1.12	0.77	0.22	0.31	0.59
27	.30	.21	.16	.25	.28	.40	.61	.23	.75	.24	.31	.32
28	.27	.24	.17	.31	.26	.35	.84	.77	.73	.24	.34	.40
29	.24	.22	.16	.24	.25	.61	.69	2.78	.71	.24		.32
30	.23	.23	.25	.24	.35	.51	.67	.54	.69	.24		.24
31		.22		.24	.31		.58		.68	.25		.31
Mean	0.32	0.24	0.30	0.26	0.31	0.52	0.48	0.89	1.08	0.39	0.36	0.26
Max.	0.48	0.44	0.67	0.36	0.58	1.67	0.84	2.78	2.70	0.66	0.49	0.59
Min.	0.21	0.17	0.15	0.19	0.22	0.21	0.30	0.36	0.68	0.22	0.31	0.16

WATER YEAR 1972 : Max. 2.78 m. Min. 0.15 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.54	0.16	0.10	0.28	0.20	0.28	1.00	1.68	20	2.16	0.54	0.30
2	0.95	0.20	0.24	0.25	0.16	0.24	2.40	1.62	8.71	1.92	0.50	0.26
3	0.95	0.16	0.12	0.22	0.16	0.20	1.05	1.26	6.00	1.62	0.62	0.16
4	1.10	0.14	0.80	0.10	0.14	0.28	0.70	1.00	4.88	1.56	0.54	0.24
5	0.80	0.12	1.44	0.080	0.14	0.12	1.38	1.50	4.06	1.38	0.62	0.06
6	1.00	0.10	1.10	0.10	0.14	0.14	1.32	1.32	4.06	1.28	0.58	0.26
7	0.95	0.080	2.22	0.10	0.14	1.80	0.80	1.32	3.40	1.20	0.58	0.26
8	0.66	0.14	1.68	0.10	0.16	3.42	0.80	0.95	3.26	1.10	0.58	0.30
9	0.50	0.28	1.62	0.42	0.95	1.44	1.80	0.75	3.42	1.68	0.46	0.80
10	0.34	0.62	0.95	0.54	0.85	0.70	1.26	0.54	3.18	1.26	0.66	0.38
11	0.46	0.38	0.22	0.34	0.38	0.66	0.80	1.15	2.89	1.00	0.62	0.22
12	0.50	0.75	1.80	0.24	0.28	1.05	0.70	2.40	2.96	0.90	1.15	0.20
13	0.42	0.90	0.75	0.18	0.24	1.05	1.98	2.82	3.18	0.70	0.54	0.18
14	0.42	0.46	0.18	0.20	0.22	0.62	0.80	4.14	4.97	0.62	0.34	0.16
15	0.34	0.46	0.10	0.50	0.20	0.30	0.38	3.56	20	0.54	0.34	0.16
16	0.34	0.24	0.040	0.34	0.20	0.34	0.38	3.64	24	0.24	0.46	0.28
17	0.46	0.14	0.040	0.22	0.20	0.28	0.34	3.03	13	0.58	0.80	0.12
18	0.26	0.12	0.020	0.28	1.20	2.75	0.46	2.68	8.00	0.50	0.62	0.04
19	0.24	0.12	0.020	0.28	1.68	11	0.90	3.48	7.50	0.38	0.50	0.04
20	0.20	0.10	0.00	0.22	0.80	4.88	0.58	3.40	5.06	0.58	0.46	0.10
21	0.16	0.10	0.20	0.18	0.66	2.89	0.34	4.70	4.38	0.50	0.42	0.08
22	0.14	0.060	0.34	0.16	1.44	2.96	0.30	4.22	3.90	0.42	0.50	0.12
23	0.12	0.060	0.46	0.54	0.66	1.92	0.80	3.98	3.40	0.34	0.42	0.12
24	0.12	0.040	0.080	0.24	0.30	1.68	1.98	3.42	3.10	0.26	0.42	0.04
25	0.12	0.080	0.10	0.20	0.22	1.50	1.38	3.40	2.96	0.24	0.38	0.02
26	0.16	0.060	0.040	0.20	0.28	1.10	0.95	5.80	2.89	0.14	0.34	1.74
27	0.30	0.12	0.020	0.20	0.26	0.70	1.86	6.90	2.75	0.18	0.34	0.38
28	0.24	0.18	0.040	0.34	0.22	0.50	3.42	13	2.61	0.18	0.46	0.70
29	0.18	0.14	0.020	0.18	0.20	1.86	2.34	25	2.47	0.18		0.38
30	0.16	0.16	0.20	0.18	0.50	1.26	2.22	22	2.34	0.18		0.18
31		0.14		0.18	0.34		1.68		2.28	0.20		0.34
Total	13.15	6.81	14.94	7.60	13.52	47.92	37.10	134.66	185.61	24.00	14.79	8.62
Mean	0.44	0.22	0.50	0.24	0.44	1.60	1.20	4.49	5.99	0.77	0.53	0.28
Max.	1.10	0.90	2.22	0.54	1.68	11	3.42	25	24	2.16	1.15	1.74
Min.	0.12	0.040	0.00	0.080	0.14	0.12	0.30	0.54	2.28	0.14	0.34	0.02
Runoff – mcm.	1.134	0.588	1.291	0.657	1.168	4.140	3.205	11.635	16.037	2.074	1.278	0.745

WATER YEAR 1972 : Max. 25 Min. 0.00 Mean 1.39 Annual Runoff 43.952 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.16	03.00	3.44	35				

KHLONG BAN TAN RIVER BASIN

Khlong Ban Tan at Ban Wang Kong, Nakhon Si Thammarat (x 70)

Location: Lat. 8°-25'-35" N., Long. 99°-51'-53" E., on right bank downstream side of the bridge on Nakhon Si Thammarat, Amphoe Muang, Nakhon SiThammarat.

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.

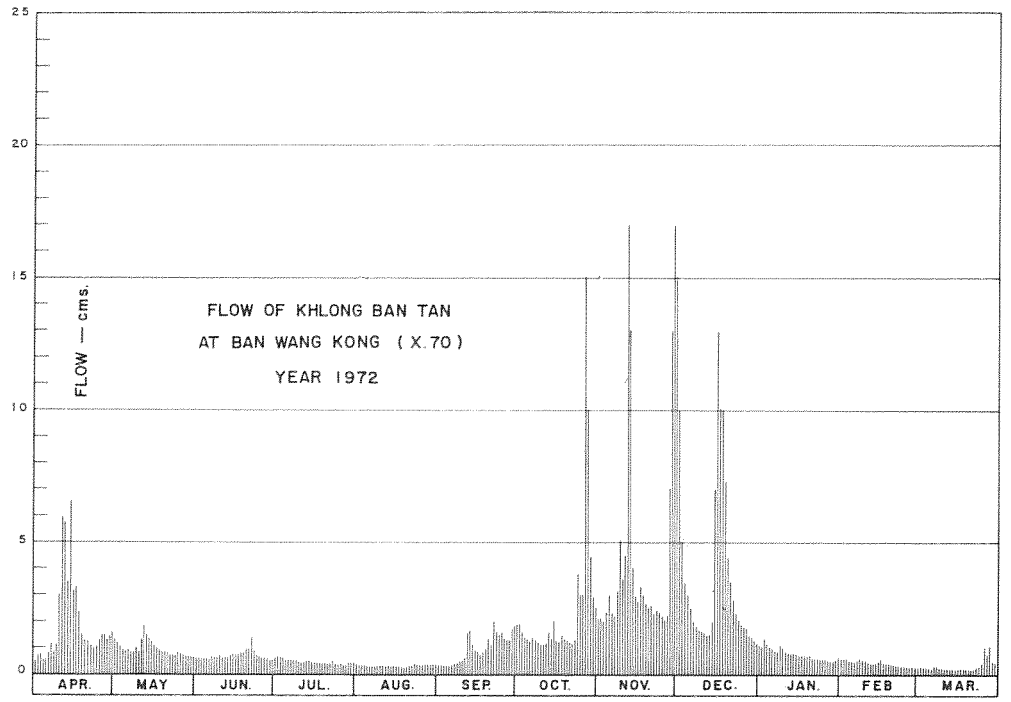
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 461 discharge measurements made during 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.21	0.40	0.24	0.25	0.18	0.17	0.53	0.57	1.83	0.36	0.25	0.15
2	.27	.38	.24	.25	.17	.17	.53	.57	.16	.35	.24	.15
3	.27	.34	.24	.24	.16	.16	.47	.55	.00	.42	.24	.14
4	.23	.32	.24	.24	.16	.16	.43	.61	0.79	.37	.23	.14
5	.23	.30	.24	.23	.16	.16	.40	.71	.73	.35	.23	.13
6	0.27	0.32	0.23	0.23	0.15	0.16	0.39	0.59	0.64	0.33	0.22	0.13
7	.37	.31	.27	.22	.15	.20	.43	.57	.55	.32	.21	.17
8	.30	.30	.24	.22	.15	.20	.41	.72	.51	.31	.26	.15
9	.37	.34	.24	.22	.15	.22	.38	1.00	.48	.37	.23	.13
10	.74	.30	.27	.21	.16	.23	.36	0.80	.48	.32	.23	.13
11	1.11	0.40	0.24	0.21	0.16	0.25	0.37	0.92	0.47	0.31	0.22	0.13
12	.09	.50	.26	.21	.16	.46	.37	2.26	.45	.30	.21	.13
13	0.78	.42	.25	.22	.15	.48	.47	1.42	.45	.31	.20	.13
14	1.19	.41	.28	.22	.15	.38	.41	0.87	.55	.30	.20	.12
15	0.73	.38	.29	.21	.15	.33	.54	.70	1.42	.29	.20	.12
16	0.74	0.35	0.28	0.21	0.15	0.30	0.40	0.66	1.93	0.28	0.26	0.12
17	.64	.33	.27	.20	.14	.28	.39	.76	.64	.28	.21	.12
18	.54	.32	.31	.20	.14	.29	.46	.71	.62	.27	.20	.12
19	.43	.30	.29	.20	.14	.33	.41	.66	.36	.27	.19	.12
20	.39	.30	.32	.19	.14	.44	.40	.64	0.96	.27	.18	.11
21	0.38	0.29	0.33	0.19	0.16	0.37	0.38	0.65	0.81	0.26	0.18	0.11
22	.35	.28	.42	.19	.16	.55	.37	.59	.70	.25	.18	.11
23	.34	.27	.32	.22	.18	.47	.42	.61	.62	.25	.17	.11
24	.34	.28	.27	.18	.18	.44	.83	.60	.57	.24	.17	.11
25	.36	.29	.26	.18	.17	.47	.72	.58	.53	.24	.16	.19
26	0.44	0.28	0.25	0.18	0.17	0.42	0.72	0.55	0.50	0.24	0.16	0.34
27	.44	.27	.24	.17	.18	.40	2.15	.60	.48	.23	.15	.28
28	.39	.26	.24	.17	.18	.40	1.18	1.29	.45	.23	.15	.36
29	.41	.25	.23	.20	.18	.49	0.87	.86	.43	.23		.27
30	.45	.24	.23	.20	.18	.51	.70	2.30	.40	.23		.20
31		.24		.19	.17		.63		.38	.26		.19
Mean	0.49	0.32	0.27	0.21	0.16	0.33	0.56	0.86	0.80	0.29	0.20	0.16
Max.	1.19	0.50	0.42	0.25	0.18	0.55	2.15	2.30	1.93	0.42	0.26	0.36
Min.	0.21	0.24	0.23	0.17	0.14	0.16	0.36	0.55	0.38	0.23	0.15	0.11

WATER YEAR 1972 : Max. 2.30 m. Min. 0.11 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	1.30	0.61	0.65	0.40	0.37	1.96	2.18	12	1.12	0.65	0.32
2	0.73	1.21	0.61	0.65	0.37	0.37	1.96	2.18	6.33	1.07	0.61	0.32
3	0.73	1.03	0.61	0.61	0.35	0.35	1.65	2.07	5.10	1.40	0.61	0.30
4	0.57	0.94	0.61	0.61	0.35	0.35	1.45	2.41	3.58	1.16	0.57	0.30
5	0.57	0.85	0.61	0.57	0.35	0.35	1.30	3.02	3.16	1.07	0.57	0.27
6	0.73	0.94	0.57	0.57	0.32	0.35	1.25	2.29	2.59	0.98	0.53	0.27
7	1.16	0.89	0.73	0.53	0.32	0.45	1.45	2.18	2.07	0.94	0.49	0.37
8	0.85	0.85	0.61	0.53	0.32	0.45	1.35	3.09	1.85	0.89	0.69	0.32
9	1.16	1.03	0.61	0.53	0.32	0.53	1.21	5.10	1.70	1.16	0.57	0.27
10	3.23	0.85	0.73	0.49	0.35	0.57	1.12	3.65	1.70	0.94	0.57	0.27
11	5.93	1.30	0.61	0.49	0.35	0.65	1.16	4.50	1.65	0.89	0.53	0.27
12	5.77	1.80	0.69	0.49	0.35	1.60	1.16	17	1.55	0,85	0.49	0.27
13	3.51	1.40	0.65	0.53	0.32	1.70	1.65	8.53	1.55	0.89	0.45	0.27
14	6.57	1.35	0.77	0.53	0.32	1.21	1.35	4.14	2.07	0.85	0.45	0.25
15	3.16	1.21	0.81	0.49	0.32	0.98	2.02	2.95	8.44	0.81	0.45	0.25
16	3.23	1.07	0.77	0.49	0.32	0.85	1.30	2.71	13	0.77	0.69	0.25
17	2.59	0.98	0.73	0.45	0.30	0.77	1.25	3.37	10	0.77	0.49	0.25
18	2.02	0.94	0.89	0.45	0.30	0.81	1.60	3.02	10	0.73	0.45	0.25
19	1.45	0.85	0.81	0.45	0.30	0.98	1.35	2.71	8.01	0.73	0.42	0.25
20	1.25	0.85	0.94	0.42	0.30	1.40	1.30	2.59	4.80	0.73	0.40	0.22
21	1.21	0.81	0.98	0.42	0.35	1.16	1.21	2.65	3.72	0.69	0.40	0.22
22	1.07	0.77	1.40	0.42	0.35	2.07	1.16	2.29	2.95	0.65	0.40	0.22
23	1.03	0.73	0.94	0.53	0.40	1.65	1.40	2.41	2.47	0.65	0.37	0.22
24	1.03	0.77	0.73	0.40	0.40	1.50	3.86	2.35	2.18	0.61	0.37	0.22
25	1.12	0.81	0.69	0.40	0.37	1.65	3.09	2.24	1.96	0.61	0.35	0.42
26	1.50	0.77	0.65	0.40	0.37	1.40	3.09	2.09	1.80	0.61	0.35	1.03
27	1.50	0.73	0.61	0.37	0.40	1.30	15	2.35	1.70	0.57	0.32	0.77
28	1.25	0.69	0.61	0.37	0.40	1.30	6.49	7.41	1.55	0.57	0.32	1.12
29	1.35	0.65	0.57	0.45	0.40	1.75	4.14	13	1.45	0.57		0.73
30	1.55	0.61	0.57	0.45	0.40	1.85	2.95	17	1.30	0.57		0.45
31		0.61		0.42	0.37		2.53		1.21	0.69		0.42
Total	58.31	29.59	21.72	15.16	10.84	30.72	73.76	133.46	123.44	25.54	13.56	11.36
Mean	1.94	0.954	0.724	0.489	0.350	1.02	2.38	4.45	3.98	0.824	0.484	0.366
Max.	6.57	1.80	1.40	0.65	0.40	2.07	15	17	13	1.40	0.69	1.12
Min.	0.49	0.61	0.57	0.37	0.30	0.35	1.12	2.07	1.21	0.57	0.32	0.22
Runoff - mcm.	5.038	2.556	1.877	1.310	0.936	2.654	6.373	11.531	10.665	2.207	1.171	0.981

WATER YEAR 1972 : Max. 17 Min. 0.22 Mean 1.50 Annual Runoff 47.300 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 30	20.00	3.16	28				

KHLONG THEPHA RIVER BASIN

Khlong Thepha at Ban Huai Pring, Songkhla (X27)

Location: Lat. 6°-42'-50" N., Long. 100°-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.

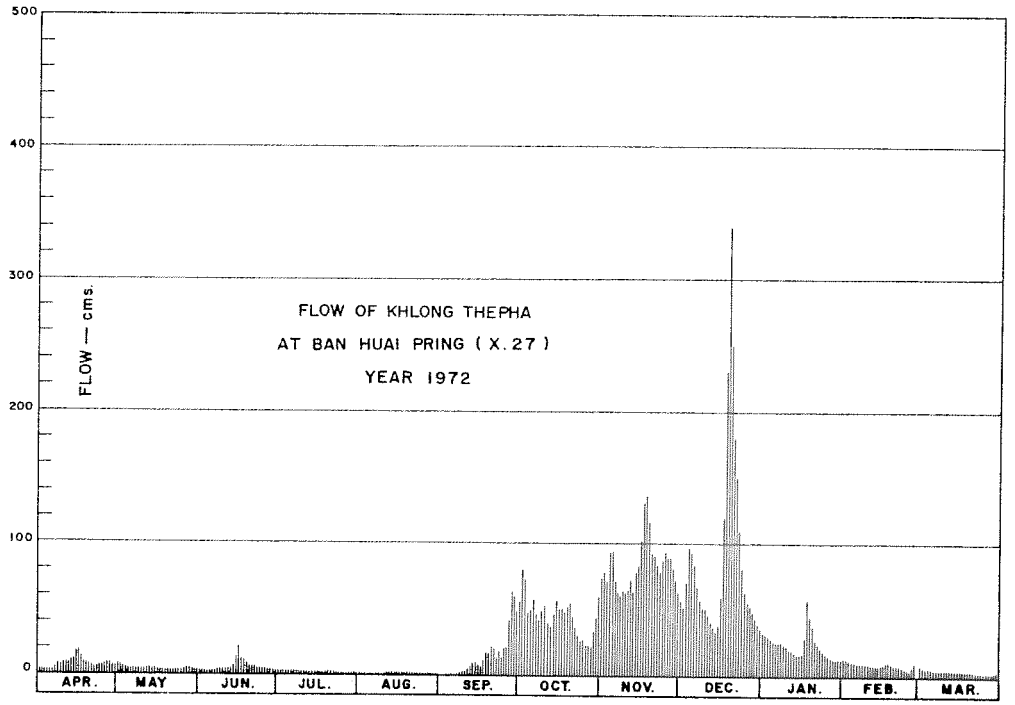
Overbank Flow Conditions: Overbank flow starts at elevation + 8.49 m. (A.D.) and is included.

General Description: Records good. Stage-discharge relation defined by 693 discharge measurements made during 1966-1968.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.17	1.52	1.13	1.19	0.92	0.96	4.06	4.72	3.93	2.94	1.90	1.52
2	.18	.48	.10	.18	.91	.96	.96	.86	.77	.85	.87	.47
3	.16	.41	.08	.17	.91	.97	.61	.60	4.74	.78	.81	.42
4	.14	.34	.06	.14	.91	.97	3.57	5.39	5.51	.70	.76	.40
5	.12	.27	.09	.12	.90	.98	.68	.43	.37	.57	.72	.38
6	1.11	1.20	1.13	1.11	0.90	0.99	3.98	4.68	4.87	2.56	1.69	1.36
7	.32	.20	.14	.09	.91	1.00	.60	.25	.32	.54	.66	.35
8	.60	.24	.15	.07	.91	.03	.32	.11	3.93	.52	.64	.33
9	.45	.20	.16	.05	.91	.12	.57	.33	.73	.46	.64	.31
10	.60	.18	.17	.05	.91	.26	.82	.24	.73	.41	.63	.30
11	1.65	1.22	1.15	1.05	1.03	1.35	3.72	4.37	3.50	2.34	1.62	1.30
12	.62	.26	.15	.05	.03	.45	.19	.63	.24	.26	.60	.29
13	.78	.24	.22	.05	.02	.69	.08	.24	.05	.19	.59	.28
14	.73	.22	.46	.04	.01	.75	.66	.96	2.96	.12	.57	.27
15	2.12	.21	.93	.03	.02	.56	.97	5.04	3.15	.08	.57	.25
16	2.20	1.19	2.43	1.02	1.03	1.43	3.68	5.58	4.40	2.04	1.58	1.24
17	1.81	.17	1.83	.01	.03	.70	.74	6.30	5.82	.52	.70	.22
18	.61	.15	.75	0.99	.03	2.12	.59	.37	7.43	4.02	.72	.21
19	.61	.14	.59	1.01	.04	.13	.73	5.93	8.39	3.51	.60	.20
20	.48	.14	.43	.10	.04	.39	.91	.36	7.70	.14	.55	.20
21	1.38	1.13	1.42	1.07	1.02	2.31	3.55	5.28	7.07	2.72	1.51	1.18
22	.36	.12	.39	.03	0.99	1.89	.07	.05	6.47	.49	.46	.17
23	.43	.11	.32	.00	.97	2.14	2.80	4.87	5.77	.33	.42	.15
24	.46	.13	.27	0.97	.97	1.85	.65	5.16	4.93	.22	.37	.15
25	.48	.17	.25	.96	.98	2.26	.64	.34	.30	.13	.31	.14
26	1.57	1.29	1.30	0.95	0.99	2.34	2.44	5.27	3.97	2.06	1.24	1.14
27	.56	.36	.27	.94	1.00	3.48	.42	.27	.75	1.98	.42	.13
28	.64	.30	.25	.94	.00	4.27	.40	.05	.54	.93	.67	.13
29	.47	.24	.21	.93	0.99	.15	.82	4.68	.35	.88	-	.16
30	.38	.19	.20	.92	.98	3.56	3.61	.26	.19	.88	-	.20
31	-	.16	-	.92	.97	-	4.11	-	.05	.88	-	.23
Mean	1.51	1.23	1.33	1.04	0.97	1.87	3.48	5.25	4.61	2.45	1.60	1.26
Max.	2.20	1.52	2.43	1.19	1.04	4.27	4.96	6.37	8.39	4.02	1.90	1.52
Min.	1.11	1.11	1.06	0.92	0.90	0.96	2.40	4.11	2.96	1.88	1.24	1.13

WATER YEAR : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.70	8.18	3.30	3.90	1.60	1.80	59	75	56	33	14	8.18
2	3.80	7.62	3.00	3.80	1.55	1.80	81	79	52	31	13	7.48
3	3.60	6.64	2.80	3.70	1.55	1.85	72	72	75	30	12	6.78
4	3.40	5.72	2.60	3.40	1.55	1.85	47	94	98	28	11	6.50
5	3.20	4.84	2.90	3.20	1.50	1.90	50	95	93	26	11	6.24
6	3.10	4.00	3.30	3.10	1.50	1.95	57	74	79	25	10	5.98
7	5.46	4.00	3.40	2.90	1.55	2.00	48	63	65	25	10	5.85
8	9.30	4.48	3.50	2.70	1.55	2.30	42	60	56	25	9.86	5.59
9	7.20	4.00	3.60	2.50	1.55	3.20	47	65	51	23	9.86	5.33
10	9.30	3.80	3.70	2.50	1.55	4.72	53	63	51	22	9.72	5.20
11	10	4.24	3.50	2.50	2.30	5.85	51	66	46	21	9.58	5.20
12	9.58	4.72	3.50	2.50	2.30	7.20	39	73	40	20	9.30	5.08
13	12	4.48	4.24	2.50	2.20	10	36	63	36	18	9.16	4.96
14	11	4.24	7.34	2.40	2.10	11	49	81	34	17	8.88	4.84
15	17	4.12	14	2.30	2.20	8.74	57	84	38	17	8.88	4.60
16	19	3.90	23	2.20	2.30	6.92	50	100	67	16	9.02	4.48
17	12	3.70	12	2.10	2.30	11	51	132	109	25	11	4.24
18	9.44	3.50	11	1.95	2.30	17	48	137	223	58	11	4.12
19	9.44	3.40	9.16	2.10	2.40	17	51	114	340	46	9.30	4.00
20	7.62	3.40	6.92	3.00	2.40	22	55	93	253	38	8.60	4.00
21	6.24	3.30	6.78	2.70	2.20	21	47	91	188	29	8.04	3.80
22	5.98	3.20	6.37	2.30	1.95	13	36	84	143	24	7.34	3.70
23	6.92	3.10	5.46	2.00	1.85	18	30	79	107	21	6.78	3.50
24	7.34	3.30	4.84	1.85	1.85	13	27	87	81	19	6.11	3.50
25	7.62	3.70	4.60	1.80	1.90	20	27	93	64	17	5.33	3.40
26	8.88	5.08	5.20	1.75	1.95	21	23	90	57	16	4.48	3.40
27	8.74	5.98	4.84	1.70	2.00	45	23	90	52	15	6.78	3.30
28	9.86	5.20	4.60	1.70	2.00	64	22	84	47	14	10	3.30
29	7.48	4.48	4.12	1.65	1.95	61	31	74	42	13	–	3.60
30	6.24	3.90	4.00	1.60	1.90	47	48	63	39	13	–	4.00
31	–	3.60	–	1.60	1.85	–	60	–	36	13	–	4.36
Total	244.44	137.82	177.57	75.90	59.65	463.08	1,417	2,518	2,718	738	260.02	148.51
Mean	8.15	4.44	5.92	2.45	1.92	15.4	45.7	83.9	87.7	23.8	9.29	4.79
Max.	19	8.18	23	3.90	2.40	64	81	137	340	58	14	8.18
Min.	3.10	3.10	2.60	1.60	1.50	1.80	22	60	34	13	4.48	3.30
Runoff - MCM.	21.120	11.908	15.342	6.558	5.154	40.010	122.429	217.555	234.835	63.763	22.466	12.831

WATER YEAR 1972 : Max. 3.40 Min. 1.50 Mean 24 Annual Runoff 773.970 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec.19,	01.00	8.59	368				

KHLONG RATTAPHUM RIVER BASIN

Khlong Rattaphum at Ban Kamphaeng Phet, Songkhla (X67)

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: 1967-1972
Rated by Float: –
Rated by Current Meter: 1967-1972

Stability of Channel Regimes: Rather unstable because of backwater effect, no shifting adjustment for flow computation.

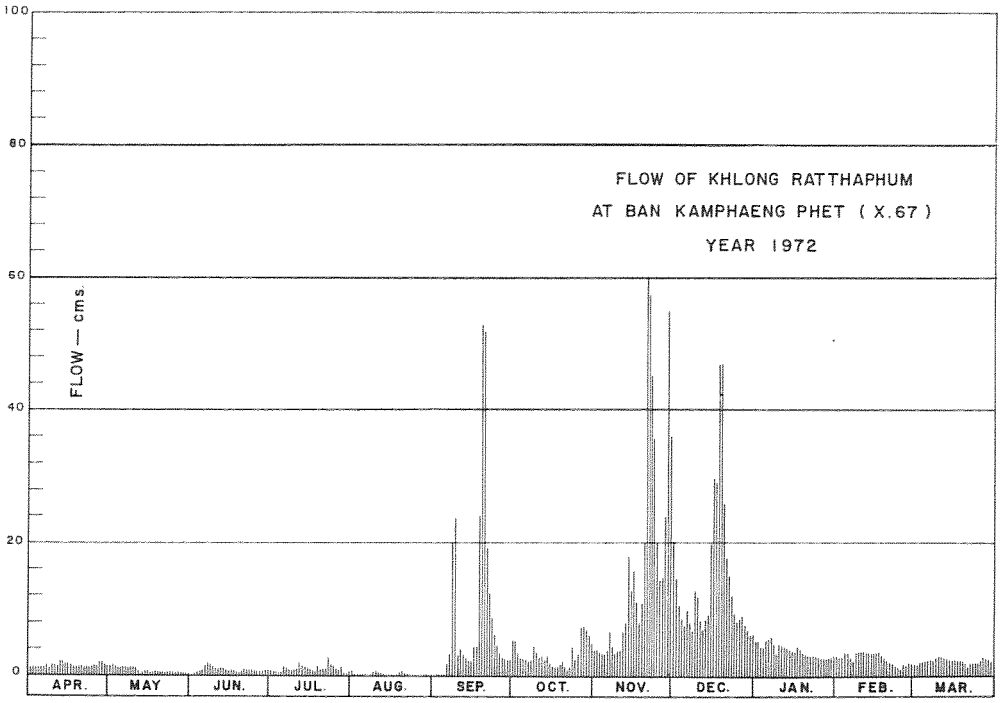
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. The data presented by 282 discharge measurements during 1967-1972. Flow regulated by Rattaphum weir for irrigation of about 10,688 hectares.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.05	0.09	-0.16	-0.02	-0.03	-0.19	0.50	0.36	1.39	0.49	0.29	0.14
2	.05	.11	-0.16	-0.05	-0.12	-0.21	.51	.37	.07	.52	.27	.13
3	.05	.09	-0.10	-0.06	-0.14	-0.22	.33	.36	0.84	.43	.29	.16
4	.06	.06	-0.06	-0.07	-0.14	-0.16	.25	.32	.74	.40	.33	.17
5	.04	.05	-0.05	-0.08	-0.15	-0.19	.24	.50	.68	.50	.36	.20
6	0.05	0.05	0.08	0.08	-0.12	-0.15	0.24	0.36	0.84	0.51	0.33	0.20
7	.10	.04	.13	.04	-0.16	0.32	.19	.60	.70	.54	.18	.24
8	.02	.03	.12	-0.02	-0.16	1.39	.24	.41	.61	.52	.35	.23
9	.11	.03	.06	-0.02	-0.06	.58	.43	.32	.99	.49	.35	.25
10	.11	.04	.03	0.01	-0.04	0.26	.37	.35	.97	.45	.36	.28
11	0.07	0.04	0.01	0.02	-0.05	0.37	0.27	0.39	0.72	0.43	0.36	0.26
12	.20	-0.04	.04	.16	-0.09	.31	.27	.61	.61	.42	.35	.25
13	.18	-0.12	.03	.09	-0.11	.30	.21	.72	.75	.39	.34	.25
14	.14	-0.06	.03	.06	-0.11	.20	.27	1.26	.81	.38	.34	.23
15	.14	-0.04	-0.04	.02	-0.12	.19	.15	.03	1.24	.36	.34	.23
16	0.12	-0.06	-0.01	0.02	-0.16	0.42	0.09	1.16	1.83	0.35	0.34	0.22
17	.08	-0.07	-0.02	-0.01	-0.21	.42	.04	0.89	.78	.42	.36	.21
18	.08	-0.06	-0.06	-0.04	-0.17	.45	.07	.70	2.47	.40	.31	.22
19	.06	-0.07	-0.07	0.08	-0.09	2.68	.14	.89	.47	.35	.26	.21
20	.07	-0.08	-0.04	.03	-0.05	.67	.22	1.44	1.68	.32	.22	.19
21	0.06	-0.09	-0.03	0.01	-0.10	1.34	0.08	2.92	1.26	0.28	0.19	0.09
22	.06	-0.12	-0.03	.03	-0.15	.08	-0.03	.78	.18	.28	.17	.16
23	.06	-0.07	-0.02	.27	-0.17	0.78	0.10	.36	.00	.29	.14	.16
24	.07	-0.06	-0.03	.10	-0.24	.63	.40	1.94	0.78	.28	.09	.17
25	.10	-0.09	-0.05	.07	-0.25	.46	.20	.38	.71	.28	.04	.16
26	0.08	-0.07	-0.06	0.03	-0.26	0.36	0.32	1.06	0.73	0.26	0.15	0.23
27	.17	-0.06	-0.04	.01	-0.25	.28	.66	.13	.76	.26	.14	.28
28	.18	-0.07	-0.04	.08	-0.25	.24	.67	.65	.69	.25	.16	.25
29	.12	-0.10	-0.01	-0.09	-0.21	.23	.62	2.76	.62	.25	–	.24
30	.09	-0.15	-0.01	-0.11	-0.19	.21	.58	1.92	.57	.26	–	.20
31	–	-0.15	–	-0.07	-0.18	–	.48	–	.57	.29	–	.16
Mean	0.09	-0.03	-0.02	0.02	-0.14	0.53	0.29	1.10	1.03	0.37	0.26	0.20
Max.	0.20	0.11	0.13	0.27	-0.03	2.68	0.67	2.92	2.47	0.54	0.36	0.28
Min.	0.02	-0.15	-0.16	-0.11	-0.25	-0.22	-0.03	0.32	0.57	0.25	0.04	0.09

WATER YEAR 1972 : Max. 2.92 m. Min. -0.26 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.30	1.54	0.28	0.88	0.82	0.22	5.40	3.86	20	5.29	3.11	1.88
2	1.30	1.67	0.28	0.70	0.36	0.18	5.53	3.97	14	5.66	2.93	1.81
3	1.30	1.54	0.40	0.64	0.32	0.16	3.53	3.86	10	4.63	3.11	2.02
4	1.36	1.36	0.64	0.58	0.32	0.28	2.75	3.42	8.70	4.30	3.53	2.09
5	1.24	1.30	0.70	0.52	0.30	0.22	2.66	5.40	7.72	5.40	3.86	2.30
6	1.30	1.30	1.48	1.48	0.36	0.30	2.66	3.86	10	5.53	3.53	2.30
7	1.60	1.24	1.81	1.24	0.28	3.42	2.23	6.70	8.10	5.92	2.16	2.66
8	1.12	1.18	1.74	0.88	0.28	20	2.66	4.41	6.84	5.66	3.75	2.57
9	1.67	1.18	1.36	0.88	0.64	24	4.63	3.42	13	5.29	3.75	2.75
10	1.67	1.24	1.18	1.06	0.76	2.84	3.97	3.75	12	4.85	3.86	3.02
11	1.42	1.24	1.06	1.12	0.70	3.97	2.93	4.19	8.40	4.63	3.86	2.84
12	2.30	0.76	1.24	2.02	0.46	3.31	2.93	6.84	6.84	4.52	3.75	2.75
13	2.16	0.36	1.18	1.54	0.38	3.20	2.39	8.40	8.85	4.19	3.64	2.75
14	1.88	0.64	1.18	1.36	0.38	2.30	2.93	18	9.76	4.08	3.64	2.57
15	1.88	0.76	0.76	1.12	0.36	2.23	1.95	13	17	3.86	3.64	2.57
16	1.74	0.64	0.94	1.12	0.28	4.52	1.54	16	30	3.75	3.64	2.48
17	1.48	0.58	0.88	0.94	0.18	4.52	1.24	11	29	4.52	3.86	2.39
18	1.48	0.64	0.64	0.76	0.26	4.85	1.42	8.10	47	4.30	3.31	2.48
19	1.36	0.58	0.58	1.48	0.46	53	1.88	11	47	3.75	2.84	2.39
20	1.42	0.52	0.76	1.18	0.70	52	2.48	21	26	3.42	2.48	2.23
21	1.36	0.46	0.82	1.06	0.40	19	1.48	60	18	3.02	2.23	1.54
22	1.36	0.36	0.82	1.18	0.30	14	0.82	56	16	3.02	2.09	2.02
23	1.36	0.58	0.88	2.93	0.26	9.30	1.60	43	13	3.11	1.88	2.02
24	1.42	0.64	0.82	1.60	0.12	7.02	4.30	32	9.30	3.02	1.54	2.09
25	1.60	0.46	0.70	1.42	0.10	4.96	2.30	20	8.25	3.02	1.24	2.02
26	1.48	0.58	0.64	1.18	0.08	3.86	3.42	14	8.55	2.84	1.95	2.57
27	2.09	0.64	0.76	1.06	0.10	3.02	7.44	15	9.00	2.84	1.88	3.02
28	2.16	0.58	0.76	1.48	0.10	2.66	7.58	26	7.86	2.75	2.02	2.75
29	1.74	0.40	0.94	0.46	0.18	2.57	6.98	55	6.98	2.75	–	2.66
30	1.54	0.30	0.94	0.38	0.22	2.39	6.44	32	6.31	2.84	–	2.30
31	–	0.30	–	0.58	0.24	–	5.18	–	6.31	3.11	–	2.02
Total	47.09	25.57	27.17	34.83	10.70	254.30	105.25	513.18	449.77	125.87	83.08	73.86
Mean	1.57	0.82	0.90	1.12	0.34	8.48	3.39	17.1	14.5	4.06	2.97	2.38
Max.	2.30	1.67	1.81	2.93	0.82	53	7.58	60	47	5.92	3.86	3.02
Min.	1.12	0.30	0.28	0.38	0.08	0.16	0.82	3.42	6.31	2.75	1.24	1.54
Runoff – mcm.	4.068	2.209	2.347	3.009	0.924	21.971	9.094	44.339	38.860	10.875	7.178	6.381

WATER YEAR 1972 : Max. 60 Min. 0.08 Mean 4.80 Annual Runoff 151.258 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.19,72	21.00	3.54	81				

KHLONG PHRU PHO RIVER BASIN

Khlong Phru Pho River at Ban Phru 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 Phru 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 on April – August, 7-time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours on September – December.

Basis of Mean Daily Gage Height: Arithmetic mean of 5-7 readings.

Period of Available Gage Records: 1967 to date.

Rating Operation:

Period of Rating: 1967-1972
Rated by Float: –
Rated by Current Meter: 1967-1972

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

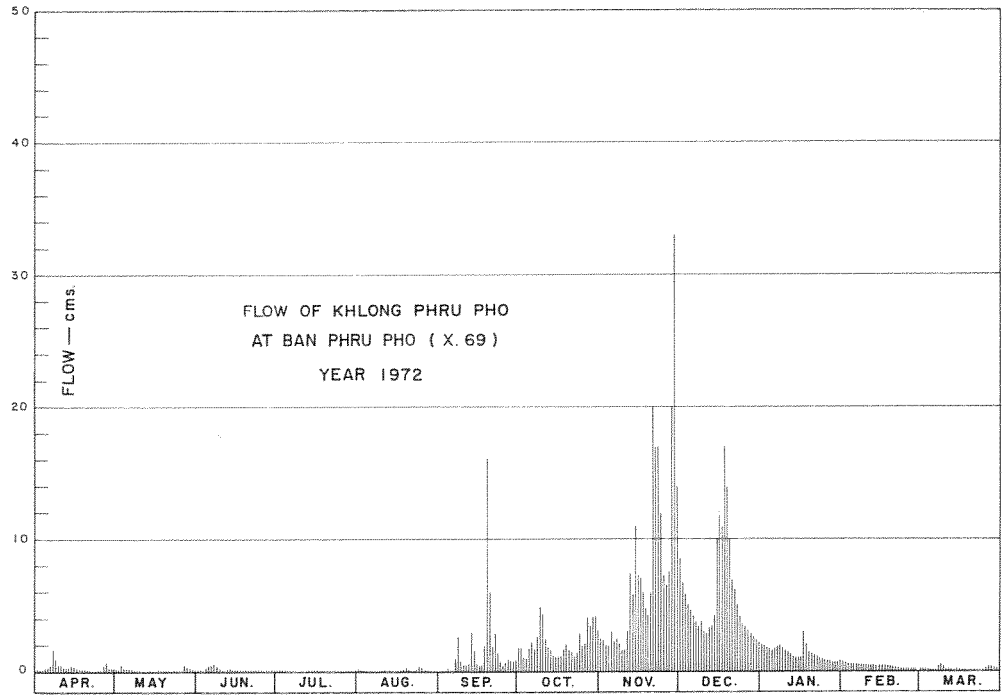
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 22 discharge measurements made in 1972.

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

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.53	0.55	0.50	0.49	0.57	0.47	0.89	0.98	1.60	0.92	0.74	0.58
2	.53	.55	.50	.49	.53	.46	.90	.97	.45	.92	.71	.58
3	.53	.63	.50	.48	.52	.47	.78	.92	.36	.91	.70	.58
4	.54	.60	.58	.48	.49	.57	.76	.92	.28	.89	.69	.57
5	.60	.59	.62	.48	.50	.46	.90	1.06	.23	.87	.68	.56
6	0.65	0.57	0.63	0.49	0.49	0.45	0.95	0.96	1.19	0.89	0.68	0.55
7	.86	.57	.67	.49	.49	.74	.88	.98	.14	.91	.68	.55
8	.76	.55	.66	.49	.49	.99	.99	.95	.10	.93	.67	.66
9	.66	.53	.56	.49	.49	.76	1.26	.86	.14	.90	.67	.70
10	.64	.52	.54	.49	.52	.66	.20	.86	.05	.87	.67	.60
11	0.59	0.53	0.54	0.51	0.51	0.66	1.00	0.99	1.03	0.85	0.67	0.58
12	.57	.52	.53	.54	.51	.69	0.90	1.50	.09	.83	.66	.57
13	.59	.50	.56	.52	.51	1.03	.88	.36	.11	.80	.66	.57
14	.63	.50	.54	.51	.49	0.85	.82	.78	.18	.79	.65	.57
15	.60	.51	.55	.49	.49	.70	.79	.49	.75	.79	.65	.56
16	0.58	0.52	0.53	0.49	0.49	0.66	0.79	1.48	1.91	0.78	0.65	0.55
17	.56	.50	.53	.52	.49	.66	.78	.38	.81	1.04	.64	.55
18	.55	.50	.52	.51	.56	.89	.88	.25	2.19	0.92	.64	.54
19	.55	.49	.52	.50	.57	2.14	.93	.19	1.89	.84	.63	.54
20	.54	.49	.51	.49	.56	1.39	.87	.38	.55	.83	.63	.53
21	0.53	0.49	0.52	0.49	0.53	1.02	0.86	2.37	1.39	0.81	0.62	0.52
22	.53	.46	.51	.50	.50	.15	.79	.18	.39	.80	.61	.52
23	.53	.50	.51	.53	.53	0.84	.82	.20	.23	.77	.60	.53
24	.52	.54	.51	.51	.63	.72	1.03	1.78	.17	.77	.59	.53
25	.53	.54	.50	.46	.56	.65	0.90	.50	.12	.75	.59	.53
26	0.56	0.52	0.49	0.37	0.56	0.72	0.93	1.43	1.08	0.74	0.59	0.62
27	.70	.65	.50	.48	.50	.76	1.17	.53	.05	.73	.58	.63
28	.61	.60	.51	.45	.49	.74	.11	2.27	.03	.73	.58	.60
29	.57	.55	.52	.45	.48	.73	.17	3.05	.00	.73		.59
30	.56	.52	.51	.47	.47	.75	.18	1.99	0.96	.72		.57
31		.50		.52	.47		.06		.94	.75		.57
Mean	0.59	0.53	0.54	0.49	0.51	0.79	0.94	1.45	1.30	0.84	0.65	0.57
Max.	0.86	0.65	0.67	0.54	0.63	2.14	1.26	3.05	2.19	1.04	0.74	0.70
Min.	0.53	0.46	0.49	0.37	0.47	0.45	0.76	0.86	0.94	0.72	0.58	0.52

WATER YEAR 1972 : Max. 3.05 m. Min. 0.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.20	0.10	0.09	0.24	0.07	1.83	2.54	8.60	2.06	0.90	0.26
2	0.16	0.20	0.10	0.09	0.16	0.06	1.90	2.46	6.85	2.06	0.75	0.26
3	0.16	0.42	0.10	0.08	0.14	0.07	1.10	2.06	5.90	1.98	0.70	0.26
4	0.18	0.30	0.26	0.08	0.09	0.24	1.00	2.06	5.12	1.83	0.66	0.24
5	0.30	0.28	0.38	0.08	0.10	0.06	1.90	3.18	4.67	1.69	0.62	0.22
6	0.50	0.24	0.42	0.09	0.09	0.05	2.30	2.38	4.31	1.83	0.62	0.20
7	1.62	0.24	0.58	0.09	0.09	0.90	1.76	2.54	3.86	1.98	0.62	0.20
8	1.00	0.20	0.54	0.09	0.09	2.62	2.62	2.30	3.50	2.14	0.58	0.54
9	0.54	0.16	0.22	0.09	0.09	1.00	4.94	1.62	3.86	1.90	0.58	0.70
10	0.46	0.14	0.18	0.09	0.14	0.54	4.40	1.62	3.10	1.69	0.58	0.30
11	0.28	0.16	0.18	0.12	0.12	0.54	2.70	2.62	2.94	1.55	0.58	0.26
12	0.24	0.14	0.16	0.18	0.12	0.66	1.90	7.40	3.42	1.41	0.54	0.24
13	0.28	0.10	0.22	0.14	0.12	2.94	1.76	5.90	3.59	1.20	0.54	0.24
14	0.42	0.10	0.18	0.12	0.09	1.55	1.34	11	4.22	1.15	0.50	0.24
15	0.30	0.12	0.20	0.09	0.09	0.70	1.15	7.29	11	1.15	0.50	0.22
16	0.26	0.14	0.16	0.09	0.09	0.54	1.15	7.18	13	1.10	0.50	0.20
17	0.22	0.10	0.16	0.14	0.09	0.54	1.10	6.10	11	3.02	0.46	0.20
18	0.20	0.10	0.14	0.12	0.22	1.83	1.76	4.85	17	2.06	0.46	0.18
19	0.20	0.09	0.14	0.10	0.24	16	2.14	4.31	12	1.48	0.42	0.18
20	0.18	0.09	0.12	0.09	0.22	6.20	1.69	6.10	8.00	1.41	0.42	0.16
21	0.16	0.09	0.14	0.09	0.16	2.86	1.62	20	6.20	1.27	0.38	0.14
22	0.16	0.06	0.12	0.10	0.10	3.95	1.15	17	6.20	1.20	0.34	0.14
23	0.16	0.10	0.12	0.16	0.16	1.48	1.34	17	4.67	1.05	0.30	0.16
24	0.14	0.18	0.12	0.12	0.42	0.80	2.94	11	4.13	1.05	0.28	0.16
25	0.16	0.18	0.10	0.06	0.22	0.50	1.90	7.40	3.68	0.95	0.28	0.20
26	0.22	0.14	0.09	0.00	0.22	0.80	2.14	6.63	3.34	0.90	0.28	0.38
27	0.70	0.50	0.10	0.08	0.10	1.00	4.13	7.76	3.10	0.85	0.26	0.42
28	0.34	0.30	0.12	0.05	0.09	0.90	3.59	18	2.94	0.85	0.26	0.30
29	0.24	0.20	0.14	0.05	0.08	0.85	4.13	33	2.70	0.85		0.28
30	0.22	0.14	0.12	0.07	0.07	0.95	4.22	14	2.38	0.80		0.24
31		0.10		0.14	0.07		3.18		2.22	0.95		0.24
Total	10.16	5.51	5.71	2.98	4.32	51.20	70.78	237.30	177.50	45.41	13.91	7.96
Mean	0.34	0.18	0.19	0.096	0.14	1.71	2.28	7.91	5.72	1.46	0.50	0.26
Max.	1.62	0.50	0.58	0.18	0.42	16	4.94	33	17	3.02	0.90	0.70
Min.	0.14	0.06	0.09	0.00	0.07	0.05	1.00	1.62	2.22	0.80	0.26	0.14
Runoff - mcm.	0.878	0.476	0.493	0.257	0.373	4.424	6.115	20.503	15.336	3.923	1.202	0.688

WATER YEAR 1972 : Max. 33 Min. 0.00 Mean 1.73 Annual Runoff 54.669 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.29	06.00	3.39	40				

KHLONG TAM RIVER BASIN

Khlong Tam at Tambon 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: 1967-1972
Rated by Float: -
Rated by Current Meter: 1967-1972

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

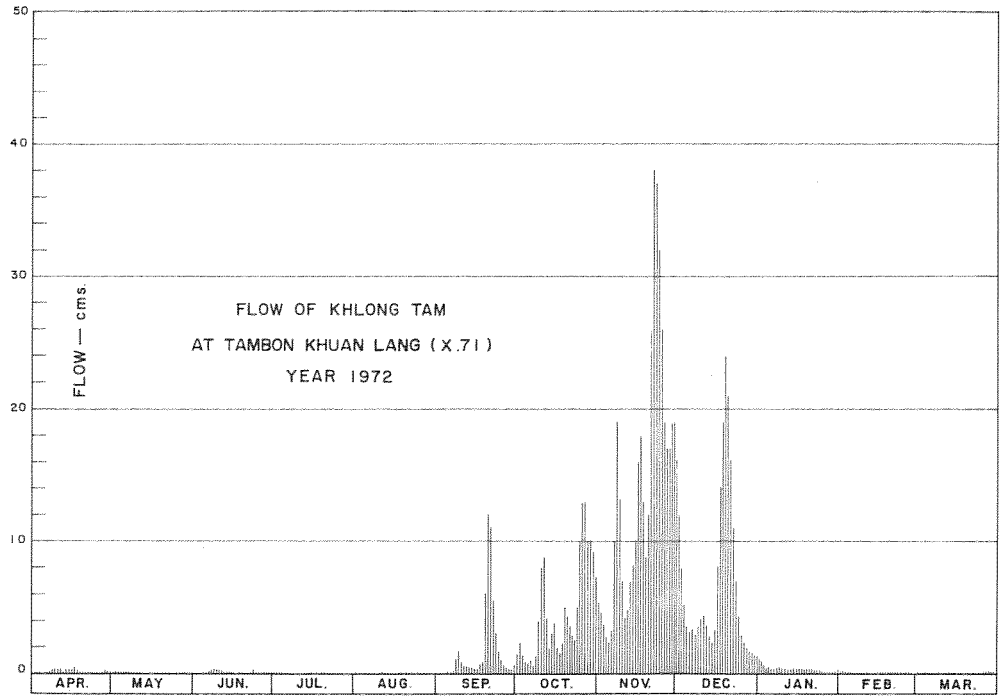
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 113 discharge measurements made during 1967-1971.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.27	1.42	1.28	1.42	1.23	1.20	1.98	2.99	4.26	1.97	1.51	1.33
2	.27	.41	.27	.36	.23	.21	2.29	.84	3.60	.85	.48	.30
3	.31	.37	.29	.33	.24	.20	.07	.60	.13	.76	.45	.30
4	.33	.40	.36	.31	.23	.21	1.89	.39	2.81	.72	.42	.33
5	.32	.37	.42	.31	.23	.20	.93	.28	.57	.72	.36	.33
6	1.35	1.36	1.44	1.29	1.22	1.21	1.87	2.51	2.49	1.70	1.37	1.30
7	.57	.37	.48	.28	.20	.48	.75	3.50	.57	.66	.41	.29
8	.63	.35	.66	.33	.21	.96	2.01	4.73	.43	.74	.39	.30
9	.60	.33	.66	.30	.25	2.13	.42	.09	.58	.73	.36	.26
10	.59	.34	.50	.28	.31	1.86	3.22	3.23	.72	.71	.30	.22
11	1.53	1.30	1.46	1.29	1.42	1.75	3.49	2.71	2.77	1.69	1.37	1.23
12	.43	.28	.42	.31	.35	.75	2.90	.84	.61	.59	.43	.25
13	.60	.24	.43	.33	.29	.71	.44	3.21	.41	.59	.42	.25
14	.63	.23	.42	.32	.27	.72	.50	.39	.28	.69	.41	.24
15	.65	.24	.38	.32	.27	.69	.42	.60	.53	.63	.40	.26
16	1.71	1.26	1.37	1.30	1.28	1.67	2.23	4.28	3.27	1.61	1.38	1.27
17	.58	.33	.35	.32	.36	.83	.08	.68	4.05	.69	.41	.28
18	.49	.30	.36	.36	.32	.85	.25	.05	.82	.68	.44	.27
19	.46	.29	.34	.33	.29	2.87	.89	3.51	5.26	.64	.40	.27
20	.43	.27	.33	.31	.26	4.03	.80	.98	.00	.62	.37	.26
21	1.42	1.27	1.31	1.28	1.31	3.82	2.61	5.38	4.47	1.59	1.37	1.25
22	.39	.27	.34	.27	.30	2.98	.40	6.10	3.85	.58	.36	.26
23	.36	.27	.52	.28	.29	.47	.32	.03	.26	.52	.35	.24
24	.35	.29	.48	.27	.23	.11	3.08	5.77	2.80	.54	.33	.24
25	.36	.34	.40	.26	.23	1.92	.90	.29	.48	.50	.35	.27
26	1.35	1.34	1.37	1.26	1.22	1.78	4.06	4.79	2.31	1.48	1.34	1.28
27	.39	.35	.34	.27	.20	.70	.06	.53	.20	.46	.35	.26
28	.51	.36	.36	.28	.21	.67	3.73	.59	.13	.43	.34	.41
29	.43	.36	.36	.24	.19	.58	.69	.75	.08	.45		.42
30	.42	.32	.35	.28	.20	.77	.63	.73	.05	.47		.30
31		.29		.25	.20		.26		.03	.57		.30
Mean	1.46	1.32	1.40	1.30	1.26	1.19	2.71	3.98	3.03	1.63	1.39	1.28
Max.	1.71	1.42	1.66	1.42	1.42	4.03	4.06	6.10	5.26	1.97	1.51	1.42
Min.	1.27	1.23	1.27	1.24	1.19	1.20	1.75	2.28	2.03	1.43	1.30	1.22

WATER YEAR 1972 : Max. 6.10 m. Min. 1.22 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.12	0.00	0.12	0.00	0.00	1.24	5.55	14	1.21	0.21	0.03
2	0.00	0.11	0.00	0.06	0.00	0.00	2.36	4.80	9.40	0.85	0.18	0.00
3	0.01	0.07	0.00	0.03	0.00	0.00	1.51	3.60	6.38	0.58	0.15	0.00
4	0.03	0.10	0.06	0.01	0.00	0.00	0.97	2.76	4.65	0.46	0.12	0.03
5	0.02	0.07	0.12	0.01	0.00	0.00	0.79	2.32	3.48	0.46	0.06	0.03
6	0.05	0.06	0.14	0.00	0.00	0.00	0.91	3.24	3.16	0.40	0.07	0.00
7	0.27	0.07	0.18	0.00	0.00	0.18	0.55	8.70	3.48	0.36	0.11	0.00
8	0.33	0.05	0.36	0.03	0.00	1.18	1.33	19	2.92	0.52	0.09	0.00
9	0.30	0.03	0.36	0.00	0.00	1.72	2.88	13	3.52	0.49	0.06	0.00
10	0.29	0.04	0.20	0.00	0.01	0.88	6.92	6.98	4.20	0.43	0.00	0.00
11	0.23	0.00	0.16	0.00	0.12	0.55	8.63	4.15	4.45	0.39	0.07	0.00
12	0.13	0.00	0.12	0.01	0.05	0.55	5.10	4.80	3.65	0.29	0.13	0.00
13	0.30	0.00	0.13	0.03	0.00	0.43	2.96	6.86	2.84	0.29	0.12	0.00
14	0.33	0.00	0.12	0.02	0.00	0.46	3.20	7.94	2.32	0.39	0.11	0.00
15	0.35	0.00	0.08	0.02	0.00	0.39	2.88	9.40	3.32	0.33	0.10	0.00
16	0.43	0.00	0.07	0.00	0.00	0.37	2.12	15	7.22	0.31	0.08	0.00
17	0.28	0.03	0.05	0.02	0.06	0.79	1.54	18	13	0.39	0.11	0.00
18	0.19	0.00	0.06	0.06	0.02	0.85	2.20	13	19	0.28	0.14	0.00
19	0.16	0.00	0.04	0.03	0.00	4.95	5.05	8.77	24	0.34	0.10	0.00
20	0.13	0.00	0.03	0.01	0.00	12	4.60	12	21	0.32	0.07	0.00
21	0.12	0.00	0.01	0.00	0.01	11	3.65	26	16	0.29	0.07	0.00
22	0.09	0.00	0.04	0.00	0.00	5.50	2.80	38	11	0.28	0.06	0.00
23	0.06	0.00	0.22	0.00	0.00	3.08	2.48	37	7.16	0.22	0.05	0.00
24	0.05	0.00	0.18	0.00	0.00	1.64	6.08	32	4.60	0.24	0.03	0.00
25	0.06	0.04	0.10	0.00	0.00	1.06	11	25	3.12	0.20	0.05	0.00
26	0.05	0.04	0.07	0.00	0.00	0.64	13	19	2.44	0.18	0.04	0.00
27	0.09	0.05	0.04	0.00	0.00	0.40	13	17	2.00	0.16	0.05	0.00
28	0.21	0.06	0.06	0.00	0.00	0.37	10	17	1.72	0.13	0.04	0.11
29	0.13	0.06	0.06	0.00	0.00	0.28	10	19	1.54	0.15		0.12
30	0.12	0.02	0.05	0.00	0.00	0.61	9.61	19	1.45	0.17		0.00
31		0.00		0.00	0.00		7.16		1.39	0.27		0.00
Total	4.81	1.02	3.11	0.46	0.27	49.88	146.52	418.87	208.41	11.48	2.47	0.32
Mean	0.16	0.033	0.10	0.015	0.008	1.66	4.73	14.0	6.72	0.37	0.090	0.010
Max.	0.43	0.12	0.36	0.12	0.12	12	13	38	24	1.21	0.21	0.12
Min.	0.00	0.00	0.00	0.00	0.00	0.00	0.55	2.32	1.39	0.13	0.00	0.00
Runoff - mcm.	0.415	0.088	0.269	0.040	0.110	4.310	12.659	36.190	18.007	0.992	0.213	0.028

WATER YEAR 1972 : Max. 38 Min. 0.00 Mean 2.32 Annual Runoff 73.234 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.22	18.00	6.23	42				

KHLONG U-THAPHAO RIVER BASIN

Khlong U-Thaphao at Ban Khok Samet Chum, Songkhla (X44)

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 April – September, January – March and 7 time daily readings at 03.00, 06.00, 09.00, 12.00, 15.00, 18.00 and 21.00 hours on October – December.

Basis of Mean Daily Gage Height: Arithmetic mean of 5-7 readings.

Period of Available Gage Records: 1967 to date

Rating Operation:

Period of Rating: 1967-1972
Rated by Float: –
Rated by Current Meter: 1967-1972

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

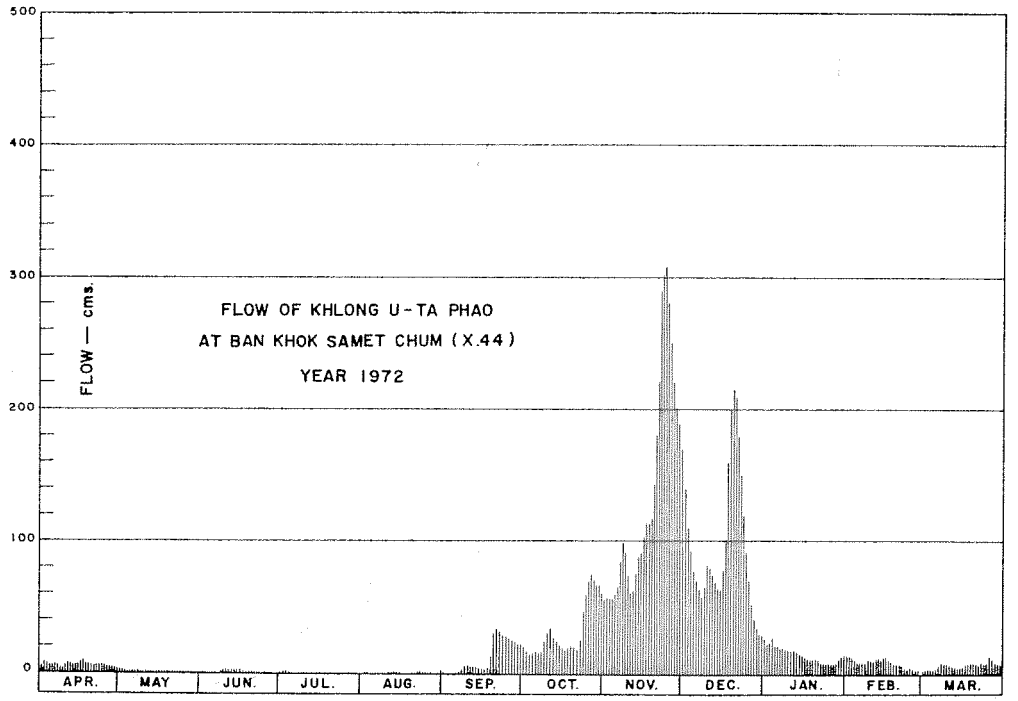
Overbank Flow Conditions: No overbank flow.

General Description: Records fair. Stage-discharge relation defined by 17 discharge measurements made in 1970.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.03	1.02	0.79	0.81	0.69	0.83	1.57	2.41	4.10	1.69	1.34	0.94
2	.12	.02	.83	.85	.79	.73	.54	.42	3.65	.58	.29	.93
3	.09	.01	.69	.87	.82	.64	.44	.41	.29	.67	.29	.99
4	.00	0.97	.58	.76	.76	.65	.35	.38	.03	.74	.21	.92
5	.02	.93	.76	.79	.70	.69	.37	.47	2.81	.55	.14	.94
6	1.05	0.92	0.81	0.70	0.70	0.77	1.43	2.58	2.63	1.56	1.16	0.99
7	.02	.89	.73	.71	.75	.81	.46	.83	.52	.51	.16	1.06
8	0.97	.83	.79	.66	.82	.93	.47	3.20	.42	.52	.16	.20
9	.93	.80	.89	.67	.75	1.05	.56	.05	.58	.51	.22	.13
10	.97	.78	.85	.59	.74	.07	.77	2.71	.89	.46	.22	.13
11	1.09	0.81	0.84	0.63	0.83	1.03	1.90	2.49	2.85	1.42	1.20	1.12
12	.09	.80	.88	.67	.82	.03	.74	.53	.71	.45	.22	.07
13	.06	.81	.87	.62	.82	.02	.65	.79	.63	.42	.28	.06
14	.08	.76	.87	.79	.80	.00	.63	.99	.55	.32	.24	0.99
15	.09	.78	.88	.75	.80	0.98	.57	3.06	.52	.30	.27	.99
16	1.13	0.79	0.89	0.69	0.74	0.94	1.49	3.22	2.78	1.26	1.31	1.01
17	.17	.82	.83	.73	.68	.93	.45	.44	3.28	.25	.22	.12
18	.10	.82	.81	.63	.66	.99	.48	.43	4.14	.23	.19	.15
19	.08	.79	.81	.64	.63	1.30	.55	.53	.77	.20	.12	.18
20	.07	.80	.77	.69	.69	.79	.57	.93	5.03	.23	.10	.18
21	1.00	0.84	0.83	0.67	0.71	1.91	1.47	4.73	4.94	1.22	1.08	1.14
22	0.97	.81	.77	.63	.80	.87	.46	5.64	.57	.16	.09	.09
23	.97	.82	.77	.71	.84	.83	.71	6.16	.08	.15	.01	.16
24	.91	.82	.64	.69	.79	.77	2.08	.34	3.50	.14	0.94	.15
25	.92	.78	.78	.69	.77	.75	.44	.12	2.95	.11	1.02	.14
26	1.02	0.77	0.76	0.67	0.80	1.71	2.66	5.70	2.56	1.13	0.95	1.35
27	.06	.76	.76	.62	.81	.71	.77	.29	.30	.12	.93	.27
28	.06	.74	.74	.65	.77	.65	.67	4.98	.08	.14	.90	.20
29	.08	.75	.74	.69	.71	.60	.61	.77	1.92	.28	–	.14
30	.04	.75	.79	.73	.76	.60	.62	.49	.81	.29	–	.14
31	–	.75	–	.70	.84	–	.48	–	.79	.38	–	.09
Mean	1.04	0.83	0.79	0.70	0.75	1.22	1.80	3.74	3.05	1.35	1.15	1.09
Max.	1.17	1.02	0.89	0.87	0.84	1.91	2.77	6.34	5.03	1.74	1.34	1.35
Min.	0.91	0.74	0.58	0.62	0.63	0.64	1.35	2.38	1.79	1.11	0.90	0.92

WATER YEAR 1972 : Max. 6.34 m. Min. 0.58 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.75	5.50	1.35	1.65	0.00	1.95	21	57	155	26	14	3.80
2	8.00	5.50	1.95	2.25	1.35	0.45	20	58	127	22	13	3.60
3	7.25	5.25	0.00	2.55	1.80	0.00	17	57	105	25	13	4.80
4	5.00	4.40	0.00	0.90	0.90	0.00	14	56	91	28	10	3.40
5	5.50	3.60	0.90	1.35	0.00	0.00	15	60	78	21	8.50	3.80
6	6.25	3.40	1.65	0.00	0.00	1.05	17	66	69	21	9.00	4.80
7	5.50	2.85	0.45	0.15	0.75	1.65	18	80	63	19	9.00	6.50
8	4.40	1.95	1.35	0.00	1.80	3.60	18	100	58	20	9.00	10
9	3.60	1.50	2.85	0.00	0.75	6.25	21	92	66	19	11	8.25
10	4.40	1.20	2.25	0.00	0.60	6.75	29	73	83	18	11	8.25
11	7.25	1.65	2.10	0.00	1.95	5.75	34	61	81	17	10	8.00
12	7.25	1.50	2.70	0.00	1.80	5.75	28	63	73	17	11	6.75
13	6.50	1.65	2.55	0.00	1.80	5.50	24	77	69	17	12	6.50
14	7.00	0.90	2.55	1.35	1.50	5.00	23	88	64	14	11	4.80
15	7.25	1.20	2.70	0.75	1.50	4.60	21	92	63	13	12	4.80
16	8.25	1.35	2.85	0.00	0.60	3.80	19	101	77	12	13	5.25
17	9.25	1.80	1.95	0.45	0.00	3.60	17	114	105	11	11	8.00
18	7.50	1.80	1.65	0.00	0.00	4.80	18	114	158	11	9.75	8.75
19	7.00	1.35	1.65		0.00	13	21	119	198	10	8.00	9.50
20	6.75	1.50	1.05		0.00	30	21	144	216	11	7.50	9.50
21	5.00	2.10	1.95		0.15	34	18	196	210	11	7.00	8.50
22	4.40	1.65	1.05		1.50	33	18	259	185	9.00	7.25	7.25
23	4.40	1.80	1.05		2.10	31	26	295	154	8.75	5.25	9.00
24	3.20	1.80	0.00		1.35	29	42	308	118	8.50	3.80	8.75
25	3.40	1.20	1.20		1.05	28	59	292	86	7.75	5.50	8.50
26	5.50	1.05	0.90		1.50	26	70	263	65	8.25	4.00	14
27	6.50	0.90	0.90		1.65	26	76	234	52	8.00	3.60	12
28	6.50	0.60	0.60		1.05	24	71	213	42	8.50	3.00	10
29	7.00	0.75	0.60	0.00	0.15	22	67	198	35	12	–	8.50
30	6.00	0.75	1.35	0.45	0.90	22	68	180	30	13	–	8.50
31	–	0.75	–	0.00	2.10	–	61	–	30	15	–	7.25
Total	181.55	63.20	44.10	11.85	30.60	378.50	992	4,110.00	3,006	461.75	252.15	231.30
Mean	6.05	2.04	1.47	0.38	0.99	12.6	32.0	137	97.0	14.9	9.00	7.46
Max.	9.25	5.50	2.85	2.55	2.10	34	76	308	216	28	14	14
Min.	3.20	0.60	0.00	0.00	0.00	0.00	14	56	30	7.75	3.00	3.40
Runoff - mcm.	15.686	5.460	3.810	1.024	2.644	32.702	85.709	355.104	259.718	39.895	21.786	19.984

WATER YEAR 1972 : Max. 308 Min. 0.00 Mean 26.7 Annual Runoff 843.523 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov.24,	12.00	6.37	310				

KHLONG U TAPHAO RIVER BASIN

Khlong U Taphao River at Ban Bang Sala, Songkhla (X.90)

Location: 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.

Drainage Area: 1,425 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 on right bank about 46 meters, BM2 on left bank about 68 meters from gage site.
Elevation: BM1 = 5.909 m. (A.D.), BM2 = 7.651 m. (A.D.)

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: 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.

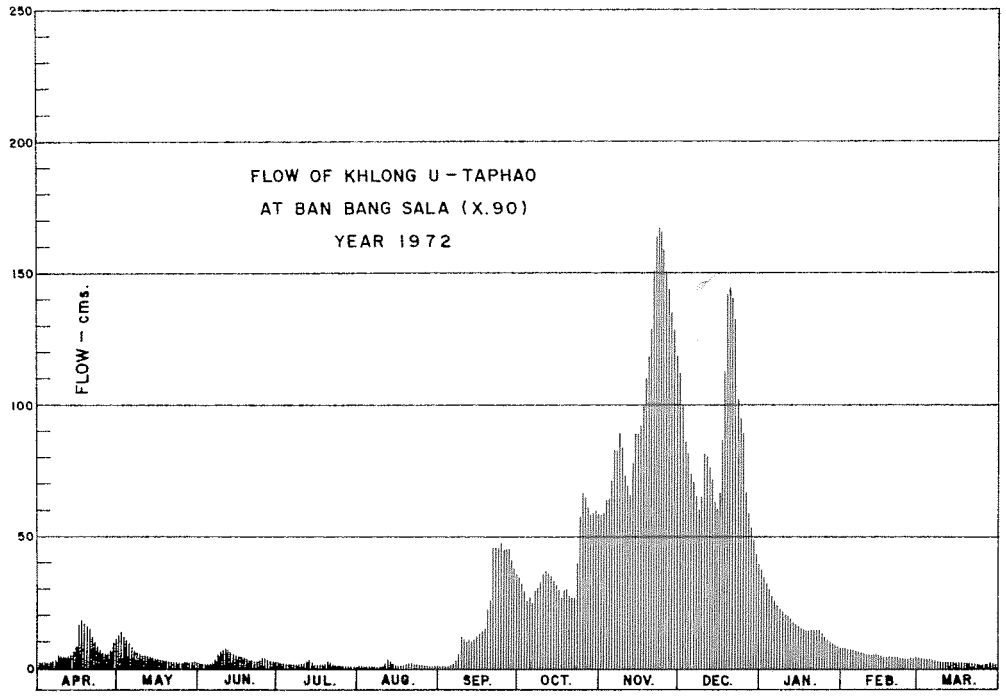
Overbank Flow Conditions: No overbank flow.

General Description: Records good. Stage-discharge relation defined by 147 discharge measurements made in 1972.

GAGE HEIGHT IN METER (A.D), WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.95	1.91	0.87	0.95	0.80	0.69	3.05	4.19	6.35	3.19	1.55	1.19
2	.92	.96	.85	.92	.79	.71	2.93	.35	5.81	.06	.53	.18
3	.90	.87	.83	.90	.78	.71	.80	.47	.39	2.94	.50	.15
4	.90	.73	.83	.89	.76	.70	.66	.49	.18	.83	.48	.12
5	.91	.65	.87	.86	.75	.70	.72	.78	4.92	.71	.45	.09
6	0.94	1.53	0.94	0.85	0.73	0.81	2.82	4.91	4.73	2.65	1.43	1.08
7	1.02	.43	1.07	.83	.72	.96	.84	5.26	.53	.57	.41	.06
8	.18	.31	.27	.83	.71	1.35	.92	.53	.36	.52	.38	.05
9	.20	.26	.40	.83	.76	.82	.99	.33	.60	.46	.35	.04
10	.13	.22	.43	.83	.79	.74	3.16	4.92	5.23	.40	.33	.02
11	1.16	1.18	1.45	0.82	0.89	1.68	3.18	4.63	5.15	2.36	1.32	1.02
12	.19	.14	.36	.84	.98	.73	.13	.62	.04	.30	.30	.03
13	.24	.12	.34	.85	.94	.69	.08	5.12	4.83	.22	.29	.01
14	.31	.10	.28	.83	.85	.80	.05	.51	.50	.14	.27	.01
15	.62	.08	.17	.81	.81	.89	2.95	.51	.34	.08	.26	.00
16	2.03	1.06	1.18	0.80	0.77	1.91	2.78	5.69	4.61	2.03	1.25	0.99
17	.24	.05	.23	.80	.78	.97	.63	.87	5.45	.01	.23	.97
18	.09	.02	.19	.80	.77	2.20	.84	6.25	6.96	.02	.26	.99
19	.06	0.99	.10	.81	.89	.48	.86	.62	7.43	.00	.25	.97
20	.01	.97	.05	.83	.93	.86	.77	.98	.52	.04	.26	.95
21	1.85	0.95	1.03	0.81	0.89	3.40	2.69	7.93	7.40	2.05	1.23	0.94
22	.69	.93	.04	.80	.84	.66	.72	8.17	.03	.02	.21	.94
23	.51	.91	.03	.78	.78	.65	3.52	.27	6.47	1.95	.18	.93
24	.37	.92	.05	.77	.80	.71	4.09	.23	5.77	.86	.16	.91
25	.28	.94	.10	.78	.76	.67	.61	8.00	.10	.79	.15	.91
26	1.25	0.95	1.08	0.77	0.73	3.65	4.53	7.74	4.61	1.74	1.14	0.91
27	.26	.93	.03	.77	.71	.59	.38	.42	.24	.68	.20	.95
28	.42	.93	.01	.76	.70	.41	.23	.17	3.97	.63	.17	.97
29	.61	1.03	0.98	.75	.70	.30	.25	6.97	.78	.60		.94
30	.78	0.97	.96	.76	.69	.20	.28	.72	.56	.58		.92
31		.90		.79	.69		.19		.35	.55		.91
Mean											1.30	1.00
Max.	2.24	1.96	1.45	0.95	0.98	3.71	4.61	8.27	7.52	3.19	1.55	1.19
Min.	0.90	0.90	0.83	0.75	0.69	0.69	2.63	4.19	3.35	1.55	1.14	0.91

WATER YEAR : Max. 8.27 m. Min. 0.69 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1972 TO MARCH 31, 1973

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.10	13	1.49	2.10	1.00	0.45	34	58	110	37	8.35	4.30
2	1.86	14	1.35	1.86	0.95	0.55	32	60	96	34	8.09	4.20
3	1.70	13	1.21	1.70	0.90	0.55	29	64	85	32	7.70	3.90
4	1.70	11	1.21	1.63	0.80	0.50	26	64	81	30	7.46	3.60
5	1.78	9.70	1.49	1.42	0.75	0.50	27	71	74	27	7.10	3.31
6	2.02	8.09	2.02	1.35	0.65	1.07	29	74	71	26	6.86	3.22
7	2.68	6.86	3.13	1.21	0.60	2.18	30	83	65	24	6.62	3.04
8	4.20	5.51	5.10	1.21	0.55	5.95	31	89	60	23	6.28	2.95
9	4.40	5.00	6.50	1.21	0.80	12	33	84	67	22	5.95	2.86
10	3.70	4.60	6.86	1.21	0.95	11	36	74	82	21	5.73	2.68
11	4.00	4.20	7.10	1.14	1.63	10	37	68	80	20	5.62	2.68
12	4.30	3.80	6.06	1.28	2.34	11	36	67	77	19	5.40	2.77
13	4.80	3.60	5.84	1.35	2.02	10	35	79	72	18	5.30	2.59
14	5.51	3.40	5.20	1.21	1.35	12	34	89	64	17	5.10	2.59
15	9.28	3.22	4.10	1.07	1.07	13	32	89	61	16	5.00	2.50
16	15	3.04	4.20	1.00	0.85	13	29	93	67	15	4.90	2.42
17	18	2.95	4.70	1.00	0.90	14	26	98	87	15	4.70	2.26
18	16	2.68	4.30	1.00	0.85	18	30	108	127	15	5.00	2.42
19	15	2.42	3.40	1.07	1.63	23	30	118	141	15	4.90	2.26
20	15	2.26	2.95	1.21	1.94	30	28	128	144	15	5.00	2.10
21	12	2.10	2.77	1.07	1.63	41	27	156	140	15	4.70	2.02
22	10	1.94	2.86	1.00	1.28	46	27	164	129	15	4.50	2.02
23	7.83	1.78	2.77	0.90	0.90	46	43	167	104	14	4.20	1.94
24	6.17	1.86	2.95	0.85	1.00	47	55	166	95	13	4.00	1.78
25	5.20	2.02	3.40	0.90	0.80	46	67	158	79	12	3.90	1.78
26	4.90	2.10	3.22	0.85	0.65	46	65	150	67	11	3.80	1.78
27	5.00	1.94	2.77	0.85	0.55	45	61	141	59	10	4.40	2.10
28	6.74	1.94	2.59	0.80	0.50	41	58	133	53	9.42	4.10	2.26
29	9.14	2.77	2.34	0.75	0.50	39	59	128	49	9.00		2.02
30	12	2.26	2.34	0.80	0.45	37	60	121	44	8.74		1.86
31		1.70	2.18	0.95	0.45		58		40	8.35		1.78
Total	212.01	144.74	106.06	35.95	31.24	622.75	1,204	3,142	2,570	566.51	154.66	79.99
Mean	7.06	4.66	3.53	1.15	1.01	20.7	38.8	105	82.9	18.3	5.52	2.58
Max.	18	14	7.10	2.10	2.34	47	67	167	144	37	8.35	4.30
Min.	1.70	1.70	1.21	0.75	0.45	0.45	26	58	40	8.35	3.80	1.78
Runoff - mcm.	18.317	12.505	9.163	3.106	2.699	53.805	104.025	271.468	222.048	48.946	13.363	6.911

WATER YEAR 1972 : Max. 167 Min. 0.45 Mean 24.3 Annual Runoff 766.360 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
NOV 23	18.00	8.34	169				