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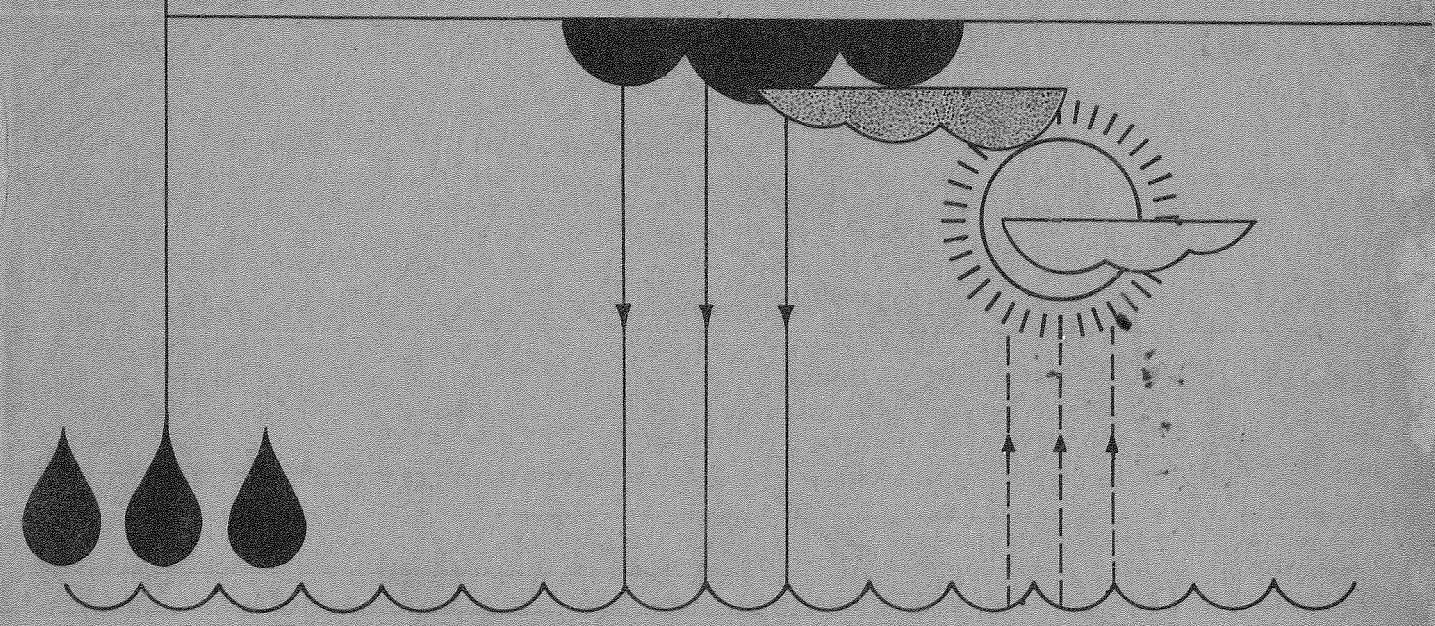
THAILAND HYDROLOGICAL YEARBOOKS

WATER YEAR 1965
VOLUME 8



MINISTRY OF NATIONAL DEVELOPMENT
ROYAL IRRIGATION DEPARTMENT
BANGKOK, THAILAND

THAILAND

HYDROLOGICAL YEARBOOKS

VOLUME 8

WATER YEAR 1965

MINISTRY OF NATIONAL DEVELOPMENT

ROYAL IRRIGATION DEPARTMENT

HYDROLOGY SECTION

BANGKOK, THAILAND

The Hydrological Yearbooks Publication has been initiated by and prepared under the direction of Mr. Boonchob Kanchanalak, Senior Engineer Hydrologist, Chief of Hydrology Section. Publication work has begun since 1966.

Memorandum: Hydrology No. 222/67

Hydrology Section
Bangkok

May 17, 1967

To: Director General
Royal Irrigation Department

From: Mr. Boonchob Kanchanalak
Chief, Hydrology Section

Subject: Hydrological Yearbook Publication

Please allow me to take privilege of submitting our first publications of "Thailand Hydrological Yearbooks". The publications now in your hands are first in its kinds of scientific publication on hydrological data ever been made in the Department, equipped with to-day engineering and systematic standard as it is.

Heavy attempt has been made all along to expedite the engineering processing of the data to be ready for publication, and to translate the publication plan into implementation. Efforts from various working units of the Section as well as personnel concerned are pulled together to drive this work into reality.

The first publication came out as Volume 8 for the hydrological year as of 1965. It contains the flow data of 59 rivers at 86 actual streamflow calibrating sites and at 27 previously calibrated sites. The stage-discharge relationship of previous calibrations are defined by all flow measurements made during periods available. Control sections are adequately stable to guarantee the flow within acceptable ranges. The Volume 1 to 7 containing the data previous to 1965 and others proceeding volumes will be followed.

Improvement of our hydrological investigation both in the field measurement and in the office processing will be kept continuing, so that the highest possible standard can be attained.

It is our earnest hope that the Yearbook Publications now available and its engineering processing already set up will be a benchmark in carrying out further series of works with our intention to promote water resources development and water control works of the country.

Boonchob Kanchanalak

Boonchob Kanchanalak
Senior Hydrologist,
Chief of Hydrology Section

ACKNOWLEDGEMENT

The Chief of Hydrology Section who is the Director of Hydrologic Yearbook Edition Unit wishes to express his gratification to all editorial staffs and personnel of the section for their assistance and cooperation in driving this important work into implementation. Special thanks are conveyed to the Budget Bureau 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.

Without great assistance and cooperative efforts from the Chief of Reprographic Section and his efficient staffs this publication work would not be possible. We, therefore, wish to thank them personally.

Boonchob Kanchanalak
Senior Hydrologist,
Chief of Hydrology Section
Director Hydrologic Yearbook,
Editorial Unit

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LOCATION MAP OF HYDROLOGIC STATIONS IN 1965 AND 1968 .

* * * *

ILLUSTRATION OF STREAMFLOW GAGING ACTIVITIES

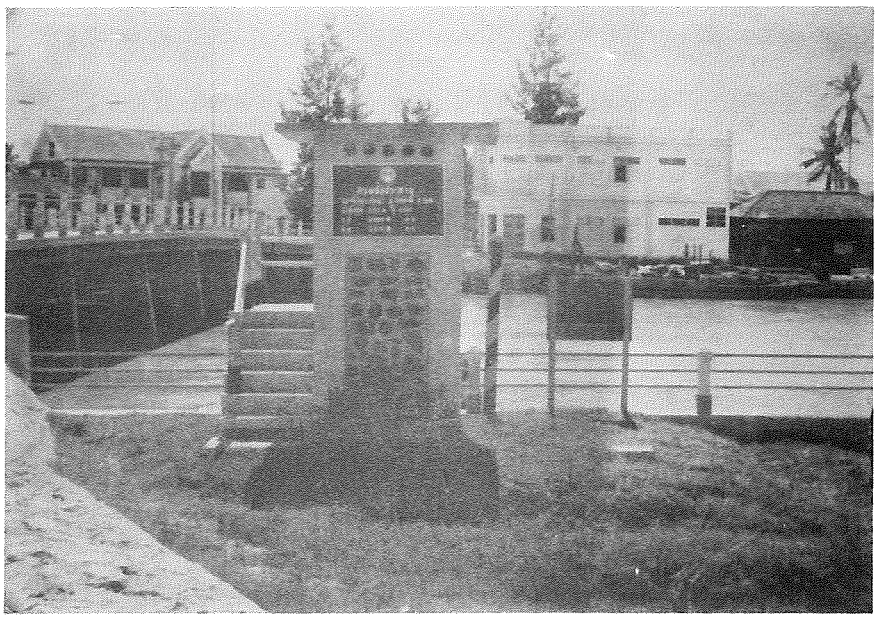

Figure 1. Recording Gaging Station at Pattani River. (X. 10), Pattani Province, Southern Thailand.

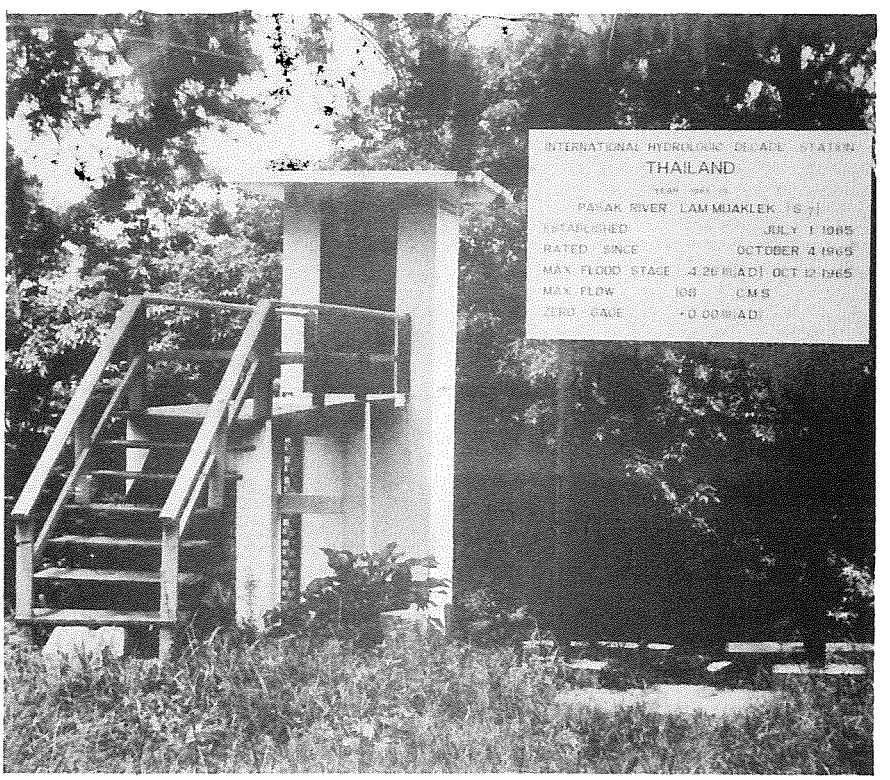

Figure 2. I.H.D. Station, Recording Gaging Station at Lam Muak Lek Creek (S. 7), Sara Buri Province, Central Thailand.

Figure 3. Typical Stream Gaging Site Located in Mountain Stream.

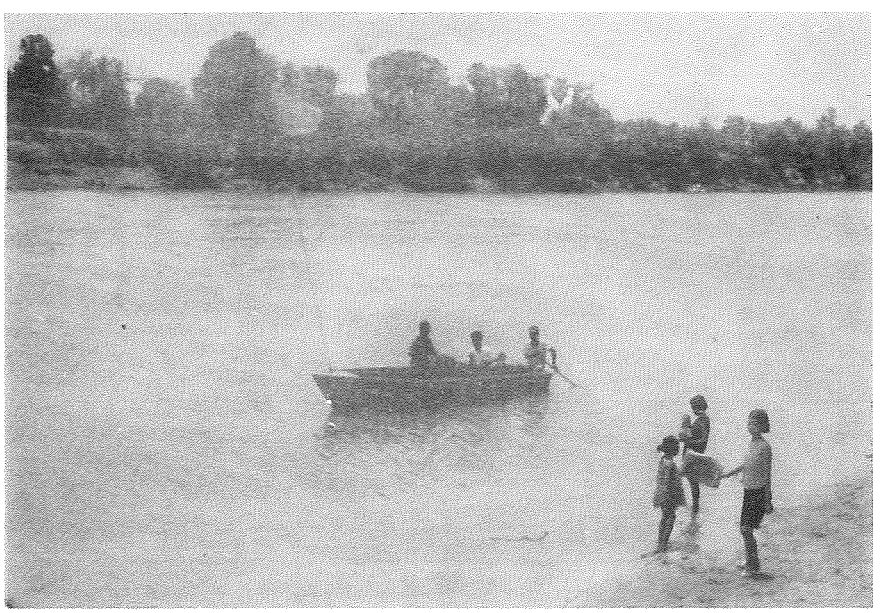

Figure 4. Streamflow Rating Operation at Mae Klong River Downstream from Mae Klong Diversion Dam (K. 11).

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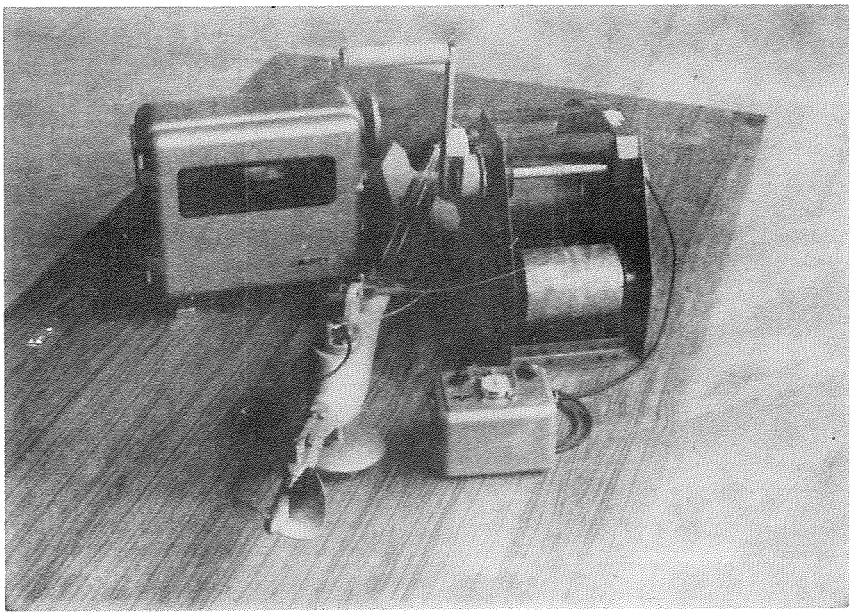


Figure 6. Standard Hydrologic Equipment.

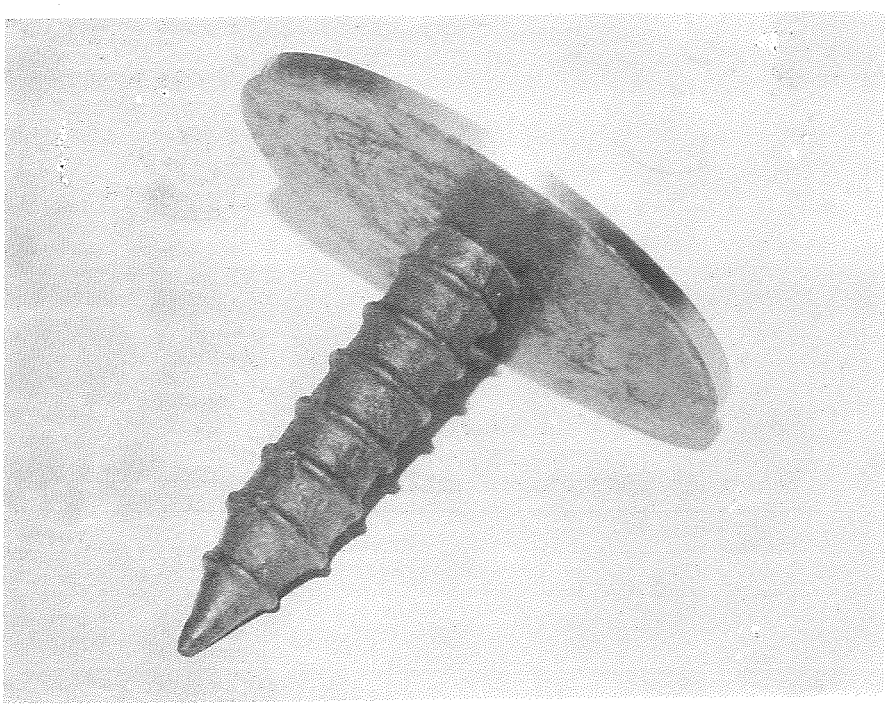


Figure 7. Standard bench mark

METHOD OF INVESTIGATION AND DATA PROCESSING

* * * *

DEFINITION OF TERMS AND ABBREVIATIONS

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

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

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

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

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

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

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

Water year is the year related to annual cycle of river flow beginning from April 1 to March 31 for this region, during which the river flow begins

to rise, reaching its flood stage and subsiding toward its cyclic minimum.

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

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

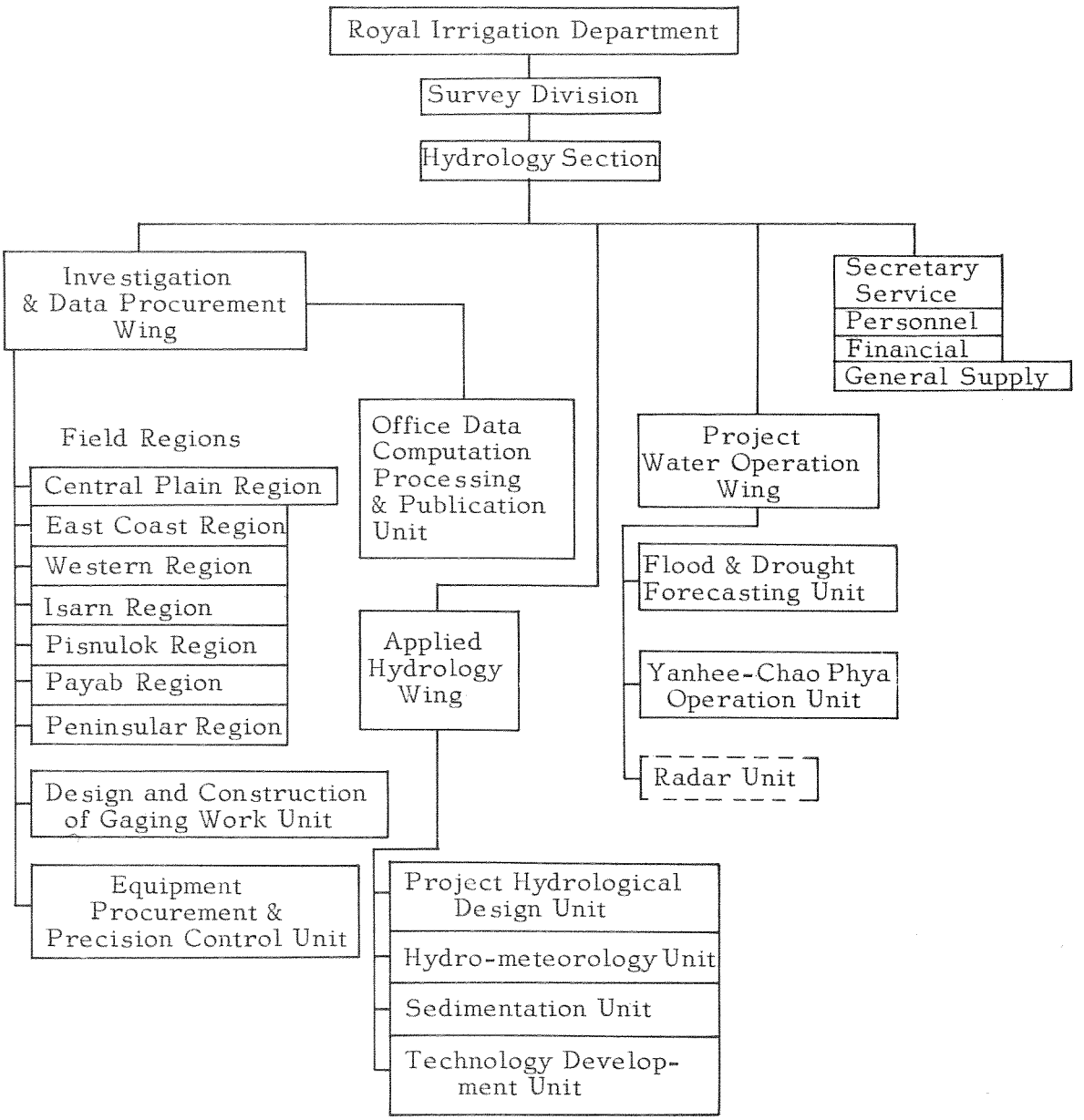
ORDER OF LISTING GAGING DATA

In this format, gaging data are listed according to their code running number order. It has been found more convenient in locating the required data when the list is arranged in such manner. List of gaging station codes presented in the publication of Stream Gaging Stations are shown in the Map enclosed. The station code name contains the letter standing for river name and number in running order according to the age of the station installed in that river. C.1 is the station code for the Chao Phya River at Wat Tahard gaging station built in 1905, which is the first stream-flow rating station ever built in this river.

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

ORGANIZATION

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


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

STANDARD OF DATA COLLECTION WORK

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

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

Measurements of flow are made with current meter by accepted methods as previously mentioned. At station operated by a moving crew, at least twice a month during the monsoon period and once a month during the low flow period are expected for flow rating performance. The moving crew frequently fails to reach the stations while at their crest stages because of road damage and time available. At station with crew camp, daily rating performance may be expected, at least once whenever change of stage per day is over 30 centimeters.

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

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

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

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

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

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

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

It has been found that application of 1 to 5 times average reading (for

daytime) gives an error of daily mean flow not more than 15% for mountain streams, less than 10% for larger valley streams and not more than 5% for lower deltaic streams. Most of mountain and valley streams are under recording operation, only deltaic streams that daytime reading are still used.

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

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

CLASSIFICATION OF DATA

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

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

Good being less than 10%
Fair being less than 15%; and
Poor being more than 15% probable.

Review of Procedure for Streamflow Record Processing

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

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

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

b) Discrepancies of recorder charts, if any.

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

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

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

2. Checking of availability and goodness of field measurement notes, H. 23.

3. Checking of differential magnitude of water level during rating as to which arithmetic average or weighed average is desirable.

4. Checking of stability of rating curve used, HS. 1004.

5. Review of shifting control sample and design shifting, H. 24-25, if any.

6. Adjustment of backwater, flood wave, etc, by rate of change of falls as index, H. 31-32, if any.

7. Overall review of daily mean flow data as an end-product, H. 26.

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

SERIES OF YEAR-BOOK PUBLICATIONS

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

Volume	Years of Record	Approximate No. of Station-years
1	1912-1937	163
2	1938-1947	165
3	1948-1953	185
4	1954-1956	180
5	1957-1959	200
6	1960-1962	213
7	1963-1964	163
8	1965	113
9	1966	135
10	1967	140
11	1968	143

It is earnestly hopeful that the Volumes 7 back to 1 and the Volumes 9 to 11 and so on will be released in serial order.

INTERNATIONAL CONFERENCE ON WATER FOR PEACE

WASHINGTON, D.C., MAY 1967

Some Aspects on Procurement of Hydrologic Data in Thailand

Author M. L. Xujati Kambhu

Co-author Boonchob Kanchanalak

* * * *

Abstract

Hydrologic data procurement in Thailand was started in 1831 for the purpose of predicting the agricultural production. The work had been originated and confined in the lower delta area and gradually moved toward headwater. Systematic investigation and scientific methods have been introduced since 1905 due to the need of water resources development. The inaccessibility caused by geographic and underdevelopment conditions of the area prevents an appreciable progress of the undertaking. The concept of the investment in hydrologic data procurement in relation to the degree of water resources development is always kept in view. Hard friction has been found in conducting the works in such the remote river-basin areas, such as observation, communication, transmission, techniques of procurement and processing of data. These factors create difficulties in hydrologic assessment for appraisal of water resources development projects. Consequently, indirect approaches have been enforced to play a predominant role in the area. Therefore, in order to overcome these difficulties, the promotion of regional research activities as well as modified methods of analysis of regional problems is immediately required. It is obvious that the establishment of master plan is desirable to help institute the actual program for hydrologic investigation, to help assist in locating the problems, and to avoid the collection of unnecessary data.

Introduction

The origin of the hydrologic data procurement in Thailand was from the need to arrive at some form of expectancy on the annual national rice production on which to base the execution for the national economic development since 1831. However, the nature of flood inundation in the Central Plain, where the rice bowl of the country is located, had ever been a major factor reflecting the crop outturn. Therefore, in the year 1831, a staff gage was firstly installed to read the annual flood inundation level whose magnitude could help foretell the order of quantity of crop expected to be under harvesting in the form of good water-year, too much flood and drought conditions. Later in 1905 streamflow measurement by surface float was introduced on the Chao Phya river for the purpose of planning of diversion irrigation control. The work had been gradually expanded covering the deltaic area and moving towards headwater with higher degree of scientific method and systematic network. The objective of the work was, however, for planning of river-run diversion irrigation. Yet there were only few stations contained in the network due to limitation of budget which, in turn, resulted in lack of trained personnel, material and equipment, etc. Inaccessibility of stream gaging sites was one of the great handicaps in expanding

the network. Not until 1952, at which storage work began, serious attempt was made to expand and intensify the network with greater degree of working method that scientific standard demands. Therefore still a number of gaging stations have been of recent date. When questions of planning water control come up, there would be a great paucity of streamflow data available to the planner. In such manner, indirect approach for hydrologic assessment is ever essential. This, however, would be satisfactory up to a point but hydrologist would have to draw a great deal from his own experience for the final judgement. This paper is to be of more regional discussion on general problems and the need of indirect approaches on hydrologic assessment.

Role of Hydrologic Observation and Procurement Problems

It is, of course, desirable to realize the true causes of trouble before undergoing any treatment. Common problems of hydrologic observation and procurement in this country as well as in the Southeast Asian region may be orderly itemized as follows:

1) Limitation of financial support.
2) Geographic inaccessibility of sites.
3) Lack of popularity of the work.
4) Lack of social cooperation.
5) Lack of appreciation and interesting of the work value.
6) Lack of trained personnel.
7) Low payment.

It is hardly necessary to stress again the importance of hydrologic data, but still the fund allocated has not been kept pace with it degree of importance. The independent problems, which have been closely associated with, are inaccessibility of the sites and social response in the form of cooperation. It is quite true in the tropic countries that headwater area always be decorated with deep jungle, and a favourable damsite is a kind of valuable built-in furniture housed in the area. In such the area, not only the problem of inaccessibility of the sites, but also suffer from lack of social response to the network installation in the form of cooperation is obvious. Consequently, workability of conventional type of network installation as of rainfall, river stage, etc. in those areas cannot be fully expected. This delays expanding and intensitying the network programme. This particular problem should be overcome by precipitation radar technique. Expenditing use of radar in this respect is, therefore, even more justified and imperative in the area.

The network suffers also the lack of popularity of the work, resulting in relatively less appreciation and interesting of the work value. The popularity and appreciation are only confined to the professional concerned. Those whose skills range from ability to make and record simple observations to the ability to compile and analyse data are frequently found inadequately equipped with the appreciation and interest. In fact, degree of the appreciation and interest as such is likely being decreased according to their professional levels. However, there is world-wide shortage of public relation in this respect. The step undertaken by the International Hydrologic Decade Programme of UNESCO to include worldwide stimulation of education and training of hydrology as its important supporting function is very much welcomed.

As regard the standards for observation and computation of hydrologic

data adopted in the area, these standards both for the field and office works generally follow the accepted practices in use by well-developed countries. The difficulties encountered from lack of adequate appreciation and interest in the work value cast some reflection upon the reliability of the hydrologic observation and measurements as well as data computation in the office processing work. It has generally been found that simple technical ignorance in the work made among personnel manned at the job though being equipped with adequate academic training is a typical epidemic in region-wide hydrological data procurement work. They realized the problems and their solutions, but it is only the matter of the appreciation and interesting of the work value. One of major causes of the matter might be the results generated from hardship post of the work in the remote river-basin area, and the typical low payment prevailed in the region. In view of the sequences, engineering review of the local hydrologic data is quite inevitable before applying to water resources planning and design.

Campaign to overcome the difficulties has been under attempt by responsible agencies, such as trying to popularize the jobs concerned, promoting scientific and engineering hydrological academic and social aspects, establishing periodic refresher course for review of techniques used and meanwhile introducing a new or refined methods, conducting series of region-wide hydrologic seminars as having been managed by the United Nations Economic Commission for Asia and the Far East (ECAFE) and WMO.

Need for Indirect Approaches

"Adequate hydrologic data were not available and development could not be kept waiting until data were made available" is the statement generally expressed elsewhere in connection with water resources development, particularly in the current developing countries. This confirms the need for indirect approaches of the hydrologic assessment in water resources development works in the area where lack of the adequate data previals. Application of the indirect approaches in such manner would have its degree of complication varied according to insufficiency of the data categorized as follows:

a) There are completely none of any kind of data available in the area.

b) There are some data available within neighbouring areas.

c) There are some data, but their period of record are too short and or intermittent.

d) There are only other allied data being either independent or dependent variable factors to the data required.

e) There are considerable data available, but their reliability and accuracy are opened to questions.

The cross-section of the lack of hydrologic data discussed above leads to the fact that indirect approaches for hydrologic assessment is quite imperative for the development of the area, and outside consulting personnels who are to be assigned to work in the area in connection with the development should inevitably be equipped with such technique. It would be so helpful if promotion of research and analyses could be made to the advancement of the technique.

The programme of the hydrologic network investigation according to the basin master plan may help assist in locating the problems.

A number of water control project in Thailand were based on the indirect approaches of hydrologic assessment. Every attempt being made in such manner was satisfactory up to a level, but it is the best method available at that time. Hydrologist had drawn a great deal from his own experience in the country in order to evaluate the basic fact, assumption and allied factors applicable to the case under study. There were many cases subjecting to "no other choices" except to depend on rainfall data because it constituted the only information available extending through a reasonably long period of time. With these attempts the justification of a project could be ascertained with a fair degree of accuracy. Yet there have been several cases whose rainfall data are not at all available due to their remote conditions, rooms for specific technique of indirect hydrologic assessment for such nature are still opened.

UNIT OF MEASUREMENT USED

UNIT CONVERSION FACTORS

1 meter (m) = 39.37 inches	=	3.2808 feet
1 kilometer (km) = 0.6214 mile	=	3,280.8 feet
1 square meter (m^2 or sq.m.)	=	1.196 square yards
	=	10.764 square feet
1 square kilometer (km^2 or sq.km.)	=	0.3861 square mile
	=	247.1 acres
	=	625 rai (Thai)
1 cubic meter (m^3 or cu.m.)	=	1,000 litres
	=	1,308 cubic yards
	=	35.31 cubic feet
1 million cubic meter (mcm)	=	1,000,000 m^3
	=	810.7 acre-feet
1 acre-foot	=	1,233 m^3
1 hectare	=	6.25 rai (Thai)
1 acre	=	2.50 rai
1 rai (Thai)	=	1,600 m^2
1 day	=	86,400 seconds
1 month (average)	=	2.63 million seconds
1 year (average)	=	31.6 million seconds

STREAM GAGING DATA

WATER YEAR 1965

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 18° – 47' – 09" N., Long 99° – 00' – 29" E., on the left bank of Ping River, 100 meters downstream of Nawarath bridge, Chiang Mai.

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

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. of Military Survey and Mapping Department.
Location: At the east abutment of Nawarath Bridge.
Elevation: + 306.867 m. (M.S.L.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashy floods whose hourly flows readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1921 to date.

Rating Operation:
Period of Rating: 1936 – 38, 1954 – 60.
Rated by Float: 1936 – 38.
Rated by Current Meter: 1954 – 60.

Stability of Channel Regimes: Fairly stable, no adjustment for shifting in years without actual rating.

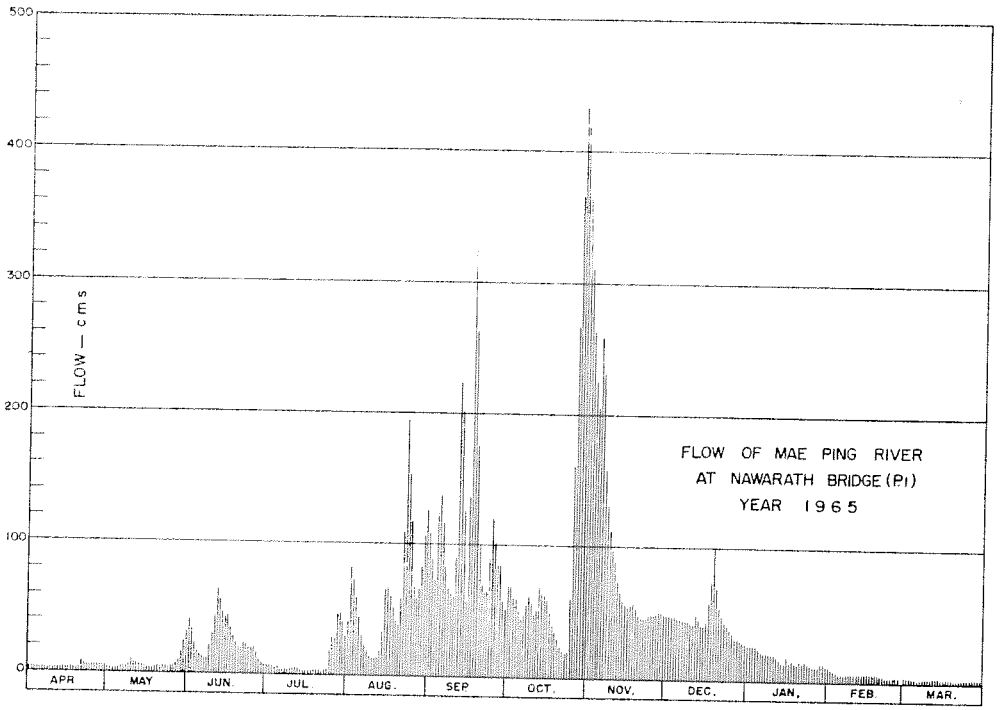
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made during the period 1958 – 60. Upstream diversions for irrigation of about 11,200 hectares since 1936 at Mae Faek Weir. The data presented in the form of actual flow at the gage site no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	301.40	301.46	302.09	301.53	302.10	302.74	302.39	304.13	302.18	301.89	301.61	301.41
2	.40	.45	.01	.54	.53	.53	.39	303.75	.18	.88	.58	.39
3	.40	.43	301.85	.52	.40	.41	.30	.55	.17	.89	.56	.38
4	.41	.41	.75	.49	.24	.67	.30	.44	.16	.88	.54	.36
5	.41	.43	.71	.47	.09	.98	.21	.81	.14	.86	.52	.35
6	301.40	301.45	301.67	301.45	301.90	302.80	302.11	303.65	302.14	301.83	301.49	301.32
7	.40	.47	.64	.43	.83	.50	.17	.18	.13	.81	.50	.33
8	.39	.48	.63	.43	.77	.37	.24	302.94	.13	.80	.48	.35
9	.39	.52	.83	.44	.70	.32	.31	.77	.12	.80	.48	.36
10	.39	.62	.94	.45	.68	.30	.27	.71	.11	.79	.47	.37
11	301.39	301.59	302.12	301.50	301.67	302.62	302.16	302.55	302.10	301.77	301.47	301.39
12	.40	.54	.35	.52	.70	303.59	.18	.40	.18	.77	.47	.39
13	.40	.52	.30	.50	.79	.41	.39	.34	.11	.71	.49	.39
14	.41	.51	.16	.45	.99	302.83	.33	.30	.09	.68	.49	.38
15	.40	.50	.09	.41	302.35	.22	.32	.26	.08	.68	.49	.35
16	301.40	301.49	302.14	301.39	302.37	303.88	302.28	302.23	302.11	301.77	301.49	301.34
17	.40	.44	.06	.38	.31	304.20	.20	.26	.28	.66	.49	.33
18	.40	.44	301.91	.38	.25	303.76	.10	.29	.45	.71	.49	.34
19	.41	.48	.84	.43	.10	.25	301.99	.20	.68	.68	.48	.33
20	.42	.51	.80	.43	.05	302.66	.91	.17	.43	.68	.49	.32
21	301.56	301.50	301.79	301.43	302.25	302.37	301.84	302.16	302.24	301.69	301.45	301.30
22	.52	.50	.86	.41	.85	.34	.80	.14	.16	.68	.43	.29
23	.51	.51	.84	.42	303.39	.33	.76	.13	.11	.69	.41	.29
24	.50	.50	.79	.46	.07	.52	.79	.17	.08	.66	.40	.29
25	.50	.50	.80	.78	302.74	.83	302.44	.18	.05	.65	.40	.27
26	301.50	301.51	301.81	301.91	302.34	302.70	303.26	302.18	302.01	301.64	301.40	301.28
27	.49	.50	.72	.90	.28	.54	.63	.19	301.97	.62	.39	.26
28	.49	.60	.64	302.16	.40	.55	304.47	.20	.96	.64	.38	.25
29	.48	.68	.60	.17	.50	.20	.76	.19	.94	.67		.26
30	.47	.87	.57	.04	.71	.20	.68	.18	.92	.68		.27
31		.97		301.91	.88		.43		.91	.66		.26
Mean	301.43	301.53	301.88	301.57	302.26	302.76	302.56	302.62	302.14	301.74	301.48	301.23
Max.	301.56	301.97	302.35	302.17	303.39	304.20	304.76	304.13	302.68	301.89	301.61	301.41
Min.	301.39	301.41	301.57	301.38	301.67	302.20	301.76	302.13	301.91	301.62	301.38	301.25

WATER YEAR 1965 : Max. 304.76 m. Min. 301.25 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.00	4.50	41	6.70	42	108	69	313	49	26	10	3.25
2	3.00	4.25	35	7.10	83	83	69	248	49	26	8.70	2.80
3	3.00	3.75	24	6.30	70	71	60	217	48	26	7.90	2.60
4	3.25	3.25	17	5.25	55	125	60	202	47	26	7.10	2.20
5	3.25	3.75	15	4.75	41	139	52	259	46	24	6.30	2.00
6	3.00	4.25	13	4.25	27	116	43	232	46	22	5.25	1.40
7	3.00	4.75	11	3.75	22	80	48	165	45	21	5.50	1.60
8	2.80	5.25	11	3.75	19	67	55	134	45	20	5.00	2.00
9	2.80	6.30	22	4.00	14	62	61	112	44	20	5.00	2.20
10	2.80	10	30	4.25	13	60	57	104	43	20	4.75	2.40
11	2.80	9.10	44	5.50	13	93	47	85	42	19	4.75	2.80
12	3.00	7.10	65	6.30	14	223	49	70	49	19	4.75	2.80
13	3.00	6.30	60	5.50	20	197	69	64	43	15	5.25	2.80
14	3.25	5.90	47	4.25	33	120	63	60	41	13	5.25	2.60
15	3.00	5.50	42	3.25	65	53	62	56	40	13	5.25	2.00
16	3.00	5.25	46	2.80	67	126	58	54	43	19	5.25	1.80
17	3.00	4.00	39	2.60	61	326	51	56	58	12	5.25	1.60
18	3.00	4.00	28	2.60	55	250	42	59	75	15	5.25	1.80
19	3.25	5.00	23	3.75	42	175	33	51	101	13	5.00	1.60
20	3.50	5.90	20	3.75	38	98	28	48	73	13	5.25	1.40
21	7.90	5.50	20	3.75	55	67	23	47	55	14	4.25	1.00
22	6.30	5.50	24	3.25	122	64	20	46	47	13	3.75	0.90
23	5.90	5.90	23	3.50	195	63	18	45	43	14	3.25	0.90
24	5.50	5.50	20	4.50	151	82	20	48	40	12	3.00	0.90
25	5.50	5.50	20	19	108	120	74	49	38	12	3.00	0.70
26	5.50	5.90	21	28	64	103	176	49	35	11	3.00	0.80
27	5.25	5.50	16	27	58	84	229	50	32	10	2.80	0.60
28	5.25	9.50	11	47	70	85	376	51	31	11	2.60	0.50
29	5.00	13	9.50	48	80	51	432	50	30	13		0.60
30	4.75	25	8.30	37	104	51	416	49	28	13		0.70
31		32		28	126		369		28	12		0.60
Total	117	227	806	339	1,927	3,342	2,922	3,073	1,434	517	142	52
Mean	3.90	7.32	27	11	62	111	94	102	46	17	5.07	1.64
Max.	7.90	32	65	48	195	326	432	313	101	26	10	3.25
Min.	2.80	3.25	8.30	2.60	13	51	18	45	28	10	2.60	0.50
Runoff - mcm.	10.109	19.613	69.638	29.290	166.493	288.749	252.461	265.507	123.898	44.669	12.269	4.406

WATER YEAR 1965 : Max. 432 Min. 0.50 Mean 41 Annual Runoff 1,287.101 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	05.00	304.77	434				

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 16° – 52' – 10" N., Long 99° – 07' – 40" E., on the right bank of the river near Kitikhachon I Bridge, at the downstream side, Ban Tha Khae, Amphoe Muang, Tak.

Drainage Area: 38,188 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – R.I.D.
- Location: At the south corner or Wat Chaichana Songkhram temple.
- Elevation: + 110.372 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1934 – 39, 1942 – 45 and 1950 to date.

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

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

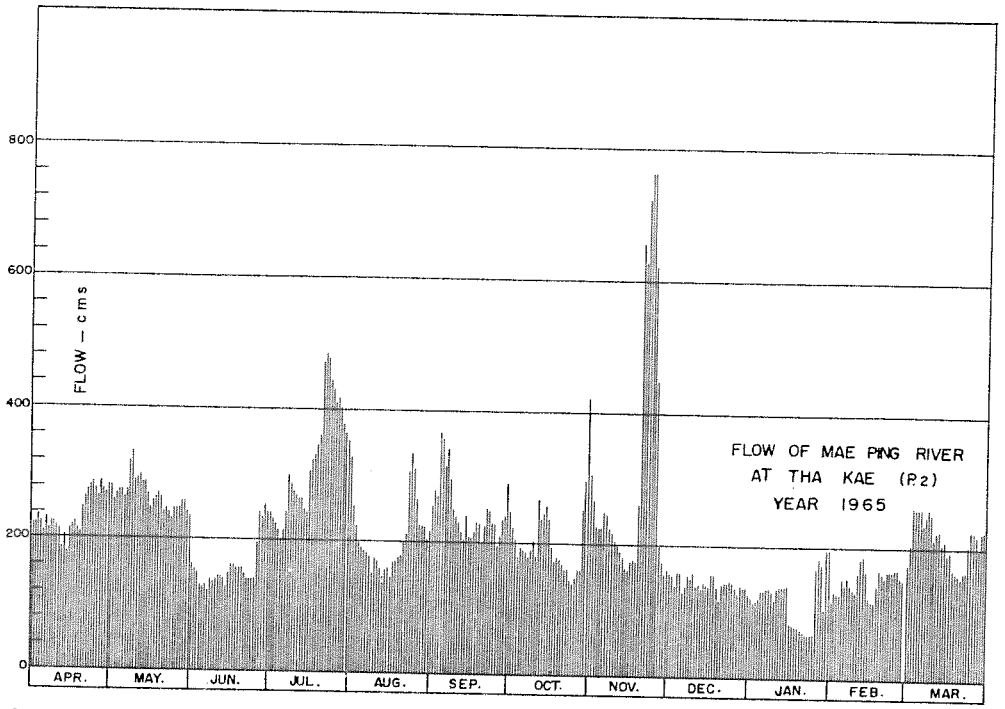
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Flow was regulated by Yanhee Reservoir since 1964. Diversion for irrigation of about 40,300 hectares was made above this station, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	105.80	105.90	105.67	105.83	105.98	105.67	105.65	105.80	105.38	105.27	105.25	105.43
2	.79	.86	.66	.81	.85	.73	.58	.70	.37	.24	.30	.53
3	.82	.88	.64	.80	.58	.71	.53	.59	.32	.25	.29	.68
4	.80	.89	.60	.78	.51	.95	.45	.58	.39	.27	.29	.68
5	.77	.89	.59	.75	.48	.93	.49	.59	.35	.30	.36	.68
6	105.81	105.87	105.60	105.78	105.47	105.82	105.48	105.65	105.29	105.30	105.33	105.68
7	.78	.89	.58	.83	.46	.89	.47	.64	.32	.31	.37	.61
8	.80	.97	.62	.93	.44	.77	.45	.58	.37	.31	.33	.65
9	.80	.99	.61	.91	.36	.66	.48	.56	.36	.30	.31	.68
10	.79	.91	.62	.89	.44	.63	.52	.53	.38	.26	.30	.66
11	105.78	105.92	105.63	105.79	105.42	105.60	105.45	105.51	105.32	105.31	105.39	105.55
12	.72	.93	.63	.87	.38	.56	.70	.48	.33	.32	.46	.58
13	.76	.91	.62	.87	.35	.53	.62	.46	.31	.32	.47	.59
14	.71	.91	.59	.84	.38	.63	.64	.40	.34	.32	.40	.53
15	.78	.88	.64	.83	.39	.54	.67	.39	.33	.33	.27	.60
16	105.79	105.84	105.67	105.94	105.35	105.54	105.62	105.47	105.32	105.13	105.25	105.48
17	.80	.86	.67	.97	.42	.56	.50	.44	.35	.12	.25	.50
18	.78	.87	.66	.95	.42	.60	.43	.43	.35	.11	.33	.41
19	.77	.88	.66	106.01	.44	.60	.45	.68	.32	.11	.41	.40
20	.84	.87	.66	.03	.45	.51	.44	106.54	.25	.10	.39	.39
21	105.87	105.83	105.59	106.20	105.51	105.59	105.41	106.49	105.33	105.09	105.37	105.37
22	.89	.84	.62	.22	.55	.66	.39	.65	.34	.07	.40	.40
23	.90	.83	.62	.21	.80	.65	.39	.71	.34	.07	.40	.40
24	.91	.81	.62	.16	.87	.60	.34	.71	.35	.07	.40	.52
25	.89	.84	.62	.14	.81	.60	.32	.48	.34	.08	.41	.59
26	105.87	105.84	105.74	106.11	105.69	105.50	105.35	106.14	105.31	105.41	105.41	105.59
27	.91	.84	.63	.12	.59	.54	.39	105.51	.29	.46	.37	.57
28	.89	.86	.82	.10	.58	.61	.39	.43	.33	.43	.36	.51
29	.88	.86	.85	.06	.58	.68	.66	.37	.32	.21		.58
30	.90	.83	.84	.04	.52	.76	.82	.40	.32	.50		.59
31		.82		.02	.56		106.08		.28	.50		.62
Mean	105.82	105.87	105.65	105.96	105.53	105.65	105.52	105.76	105.33	105.25	105.35	105.55
Max.	105.91	105.99	105.85	106.22	105.98	105.95	106.08	106.71	105.39	105.50	105.47	105.68
Min.	105.71	105.81	105.58	105.75	105.35	105.50	105.32	105.37	105.25	105.07	105.25	105.37

WATER YEAR 1965 : Max. 106.71 m. Min. 105.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	225	281	162	242	327	256	248	306	157	123	117	173
2	220	259	157	231	253	279	223	267	154	114	132	205
3	236	270	149	225	223	271	205	226	138	117	129	260
4	225	275	131	215	198	366	179	223	160	123	129	260
5	210	275	127	200	189	358	192	226	147	132	151	260
6	231	264	131	215	185	314	189	248	129	132	141	260
7	215	275	123	242	182	342	185	245	138	135	154	234
8	225	322	140	298	176	294	179	223	154	135	141	248
9	225	333	135	287	151	252	189	216	151	132	135	260
10	220	287	140	275	176	241	202	205	157	120	132	252
11	215	293	144	220	169	230	179	198	138	135	160	212
12	185	298	144	264	157	216	267	189	141	138	182	223
13	205	287	140	264	147	205	237	182	135	138	185	226
14	180	287	127	247	157	241	245	163	144	138	163	205
15	215	270	149	242	160	209	256	160	141	141	123	230
16	220	247	162	304	147	209	237	185	138	82	117	189
17	225	259	162	322	169	216	195	176	147	80	117	195
18	215	264	157	310	169	230	173	173	147	77	141	166
19	210	270	157	345	176	230	179	260	138	77	166	163
20	247	264	157	358	179	198	176	656	117	74	160	160
21	267	242	127	470	198	226	166	627	141	71	154	154
22	275	247	140	484	212	252	160	723	144	66	163	163
23	281	242	140	477	306	248	160	762	144	66	163	163
24	287	231	140	443	334	230	144	762	147	66	163	202
25	275	247	140	430	310	230	138	622	144	69	166	226
26	264	247	195	410	263	195	147	448	135	166	166	226
27	287	247	242	416	226	209	160	198	129	182	154	219
28	275	259	236	403	223	234	160	173	141	173	151	198
29	270	259	253	377	223	260	252	154	138	105		223
30	281	242	247	365	202	290	314	163	138	195		226
31		236		352	216		421		126	195		237
Total	7,111	8,279	4,754	9,933	6,403	7,531	6,357	9,359	4,398	3,697	4,155	6,518
Mean	237	267	158	320	206	251	205	312	142	119	148	213
Max.	287	333	253	484	334	366	421	762	160	195	185	260
Min.	180	231	123	200	147	195	138	154	117	66	117	154
Runoff - mcm.	614.300	715.306	410.746	858.211	553.219	650.678	549.245	808.618	379.987	319.421	358.932	571.795

WATER YEAR 1965 : Max. 762 Min. 66 Mean 215 Annual Runoff 6,790.608 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 20	09.00	106.77	802				

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Staff gage.

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

Bench Mark: B.M. – HS./R.I.D. No. 3
Location: On left bank at Mae Taeng bridge.
Elevation: + 339.397 m. (M.S.L.)

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

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

Period of Available Gage Records: 1955 to date

Rating Operation:
Period of Rating: 1955 – 61.
Rated by Float: –
Rated by Current Meter: 1955 – 61.

Stability of Channel Regimes: Rather unstable during high floods. No adjustment for shifting is made for years without rating.

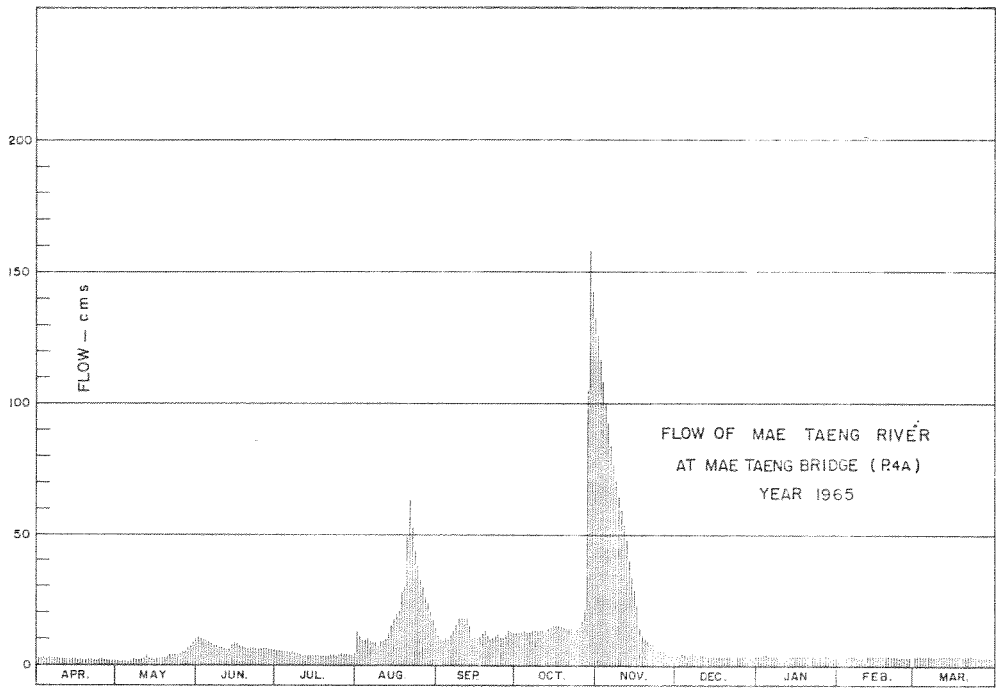
Overbank Flow Conditions: Overbank flow was observed, but not included due to inadequate field data.

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made during 1955 – 60. There are no State diversions above this station, except those built by local farmers, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	334.31	334.21	334.82	334.56	334.93	334.86	334.91	337.04	334.45	334.40	334.38	334.37
2	.31	.21	.81	.55	.84	.80	.91	336.89	.42	.40	.39	.37
3	.31	.21	.79	.54	.78	.80	.91	.80	.50	.44	.39	.37
4	.30	.22	.78	.53	.76	.80	.94	.70	.45	.45	.40	.37
5	.30	.22	.75	.52	.82	.76	.91	.55	.44	.42	.40	.37
6	334.30	334.22	334.71	334.51	334.74	334.84	334.91	336.42	334.43	334.41	334.39	334.36
7	.29	.23	.66	.50	.72	.92	.92	.31	.48	.41	.39	.36
8	.29	.23	.68	.49	.74	335.01	.95	.22	.48	.40	.38	.36
9	.29	.23	.65	.48	.65	.08	.92	.13	.46	.38	.38	.36
10	.28	.26	.64	.47	.76	.11	.93	.04	.45	.37	.39	.36
11	334.28	334.32	334.60	334.46	334.77	335.08	334.94	335.95	334.45	334.37	334.40	334.36
12	.28	.38	.57	.45	.80	.00	.93	.84	.43	.38	.41	.35
13	.27	.30	.61	.44	.89	334.92	.96	.71	.42	.39	.41	.35
14	.27	.29	.68	.43	335.02	.82	.96	.55	.31	.40	.41	.35
15	.27	.28	.71	.43	.08	.83	335.00	.41	.40	.40	.41	.35
16	334.26	334.29	334.68	334.44	335.13	334.82	334.99	335.24	334.42	334.39	334.40	334.35
17	.26	.31	.67	.44	.22	.83	.99	.00	.41	.40	.40	.35
18	.26	.34	.63	.45	.36	.88	.99	334.87	.41	.39	.40	.35
19	.25	.36	.61	.45	.45	.95	.98	.82	.41	.40	.40	.34
20	.25	.39	.59	.45	.61	.88	.97	.78	.40	.40	.39	.34
21	334.25	334.43	334.60	334.44	336.10	334.78	334.96	334.73	334.40	334.41	334.39	334.34
22	.24	.46	.60	.44	335.97	.82	.96	.69	.39	.41	.39	.34
23	.24	.44	.60	.44	.79	.83	.94	.65	.39	.40	.38	.34
24	.24	.43	.61	.45	.65	.87	.97	.62	.38	.40	.38	.34
25	.29	.46	.62	.46	.50	.84	335.00	.57	.40	.40	.38	.33
26	334.23	334.51	334.61	334.47	335.46	334.83	335.04	334.54	334.41	334.39	334.38	334.33
27	.23	.56	.60	.48	.36	.87	.16	.50	.42	.39	.38	.33
28	.22	.61	.59	.47	.29	.94	.39	.48	.41	.39	.37	.33
29	.22	.66	.58	.46	.20	.93	337.42	.48	.41	.38		.33
30	.22	.73	.57	.45	.10	.90	.28	.49	.40	.38		.33
31		.78		.44	.00		.17		.40	.38		.33
Mean	334.27	334.37	334.65	334.47	335.14	334.89	335.21	335.47	334.43	334.39	334.39	334.35
Max.	334.31	334.78	334.82	334.56	336.10	335.11	337.42	337.04	334.50	334.45	334.41	334.37
Min.	334.22	334.21	334.57	334.43	334.65	334.76	334.91	334.48	334.31	334.27	334.37	334.33

WATER YEAR 1965 : Max. 337.42 m. Min. 334.21 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.02	4.27	22	12	27	24	26	252 *	9.30	8.00	7.56	7.34
2	6.02	4.27	22	12	23	21	26	227 *	8.52	8.00	7.78	7.34
3	6.02	4.27	21	12	20	21	26	220 *	11	9.04	7.78	7.34
4	5.80	4.44	20	11	20	21	28	205 *	9.30	9.30	8.00	7.34
5	5.80	4.44	19	11	22	20	26	185 *	9.04	8.52	8.00	7.34
6	5.80	4.44	18	11	19	23	26	174	8.78	8.26	7.78	7.12
7	5.63	4.61	16	11	18	27	27	158	10	8.26	7.78	7.12
8	5.63	4.61	16	10	19	32	28	144	10	8.00	7.56	7.12
9	5.63	4.61	15	10	15	36	27	131	9.56	7.56	7.56	7.12
10	5.46	5.12	15	10	20	37	27	120	9.30	5.29	7.78	7.12
11	5.46	6.24	14	9.56	20	36	28	109	9.30	7.34	8.00	7.12
12	5.46	7.56	13	9.30	21	37	27	98	8.78	7.56	8.26	6.90
13	5.29	5.80	14	9.04	25	27	29	84	8.52	7.78	8.26	6.90
14	5.29	5.63	16	8.78	32	22	29	69	6.02	8.00	8.26	6.90
15	5.29	5.46	18	8.78	36	23	31	58	8.00	8.00	8.26	6.90
16	5.12	5.63	16	9.04	39	22	31	46	8.52	7.78	8.00	6.90
17	5.12	6.02	16	9.04	44	23	31	31	8.26	8.00	8.00	6.90
18	5.12	6.68	15	9.56	54	25	31	24	8.26	7.78	8.00	6.90
19	4.95	7.12	14	9.30	61	28	30	22	8.26	8.00	8.00	6.68
20	4.95	7.78	13	9.30	75	25	29	20	8.00	8.00	7.78	6.68
21	4.95	8.78	14	9.04	127	20	29	18	8.00	8.26	7.78	6.68
22	4.78	9.56	14	9.04	112	22	29	17	7.78	8.26	7.78	6.68
23	4.78	9.04	14	9.04	92	23	28	15	7.78	8.00	7.56	6.68
24	4.78	8.78	14	9.30	78	25	29	14	7.56	8.00	7.56	6.68
25	5.63	9.56	14	9.56	65	23	31	13	8.00	8.00	7.56	6.46
26	4.61	11	14	9.82	62	23	33	12	8.26	7.78	7.56	6.46
27	4.61	12	14	10	54	25	40	11	8.52	7.78	7.56	6.46
28	4.44	14	13	9.83	49	28	56	10	8.26	7.78	7.34	6.46
29	4.44	16	13	9.56	43	27	315 *	10	8.26	7.56		6.46
30	4.44	18	13	9.30	37	26	285 *	10	8.00	7.56		6.46
31		20		9.04	31		270 *		8.00	7.56		6.46
Total	157	246	470	305	1,360	782	1,708	2,507	265	245	219	[illegible]
Mean	5.23	7.94	16	9.84	84	26	55	83	8.52	7.90	7.82	6.97
Max.	6.02	20	22	12	127	37	315	252	11	9.30	8.26	7.34
Min.	4.44	4.27	13	8.78	15	20	26	10	6.02	5.29	7.34	6.46
Runoff - mcm.	13.565	21.254	40.608	26.352	117.504	67.565	147.571	216.605	22.896	21.168	18.921	18.605

WATER YEAR 1965 : Max. 315 Min. 4.27 Mean 23 Annual Runoff 732.413 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	06.00	337.47	320				

* Estimated Discharge from rating curve, year 1957.

WATER YEAR 1965
PING RIVER BASIN

Mae Muang River at Tha Singphithak Bridge, Lamphun (P. 5)

Location: Lat. 18° – 34' – 32" N., Long 99° – 00' – 44" E., on the right bank, 10 meters downstream of Tha Singphithák bridge, Amphoe Muang, Lamphun.

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

Type of Gage: Staff gage.

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

Bench Mark:
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: 1951 to date.

Rating Operation:
Period of Rating: 1954 – 60.
Rated by Float: –
Rated by Current Meter: 1954 – 60.

Stability of Channel Regimes: Stable, No shifting adjustment is made in flow computation.

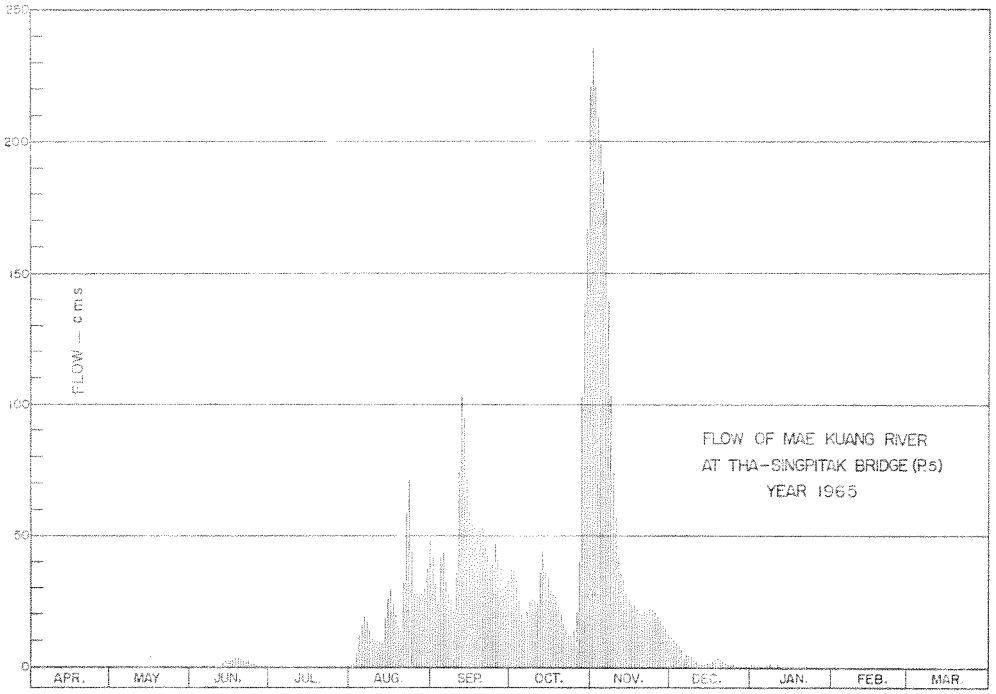
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made during 1954 – 60 Upstream diversions for irrigation of about 9,600 hectares since 1954. The data presented is from actual flow at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	289.33	289.30	289.34	289.51	289.65	291.07	290.95	294.52	290.19	289.67	289.51	289.33
2	.33	.30	.39	.49	.73	290.82	.94	.33	.15	.68	.54	.33
3	.33	.30	.42	.48	.90	.61	.83	.14	.09	.63	.57	.32
4	.32	.30	.46	.48	290.18	291.09	.63	.00	.04	.61	.53	.32
5	.32	.30	.48	.48	.33	.13	.46	293.84	289.98	.58	.51	.31
6	289.32	289.31	289.52	289.48	290.43	290.84	290.39	293.62	289.84	289.60	289.49	289.31
7	.32	.31	.51	.46	.36	.70	.48	.04	.90	.65	.48	.31
8	.32	.31	.51	.45	.26	.64	.61	292.40	.88	.69	.48	.31
9	.31	.31	.52	.45	.16	.54	.65	291.81	.84	.65	.50	.31
10	.31	.31	.54	.45	.11	.92	.62	.44	.79	.61	.50	.31
11	289.31	289.31	289.57	289.43	290.10	291.82	290.60	290.09	289.76	289.65	289.50	289.31
12	.31	289.32	.62	.42	.08	292.40	.91	290.93	.72	.64	.50	.31
13	.31	.32	.68	.42	.08	.23	291.12	.83	.70	.62	.49	.31
14	.31	.32	.74	.42	.42	291.78	290.96	.71	.70	.62	.47	.31
15	.31	289.33	.78	.40	.65	.48	.87	.64	.73	.62	.43	.31
16	289.31	289.33	289.78	289.39	290.75	291.40	290.77	290.60	289.75	289.59	289.42	289.32
17	.31	.33	.78	.39	.58	.40	.71	.60	.78	.57	.42	.32
18	.30	.33	.79	.38	.45	.30	.66	.54	.80	.52	.42	.32
19	.30	.33	.81	.38	.33	.32	.57	.50	.84	.50	.40	.32
20	.30	.33	.81	.38	.30	.35	.47	.50	.80	.53	.40	.32
21	289.30	289.33	289.76	289.37	290.80	291.18	290.37	290.50	289.77	289.56	289.39	289.32
22	.30	.32	.74	.35	291.48	.11	.28	.51	.74	.60	.37	.32
23	.30	.32	.75	.35	.76	.00	.20	.53	.71	.60	.37	.32
24	.30	.32	.70	.35	.14	.00	.17	.54	.68	.60	.37	.32
25	.30	.32	.65	.35	290.70	.20	.28	.49	.65	.60	.36	.33
26	289.30	289.31	289.59	289.35	290.70	291.09	290.49	290.45	289.63	289.57	289.36	289.33
27	.30	.31	.56	.37	.67	290.98	291.03	.39	.61	.54	.34	.33
28	.30	.31	.56	.42	.69	.88	292.40	.35	.60	.52	.34	.33
29	.30	.31	.56	.48	.77	.79	293.03	.29	.60	.52		.33
30	.30	.33	.53	.53	.99	.83	.50	.23	.62	.52		.33
31		.33		.59	291.23		294.32		.64	.50		.33
Mean	289.31	289.32	289.61	289.43	290.51	291.16	290.98	291.44	289.79	289.59	289.44	289.32
Max.	289.33	289.33	289.81	289.59	291.76	292.40	294.32	294.52	290.19	289.69	289.57	289.33
Min.	289.30	289.30	289.34	289.35	289.65	290.54	290.17	290.23	289.60	289.50	289.34	289.31

WATER YEAR 1965 : Max. 294.52 m. Min. 289.30 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.00	0.07	1.05	42	37	235	12	1.19	0.07	0.00
2	0.00	0.00	0.00	0.00	1.94	32	37	221	11	1.26	0.28	0.00
3	0.00	0.00	0.00	0.00	5.20	25	33	209	9.80	0.91	0.49	0.00
4	0.00	0.00	0.00	0.00	12	42	25	199	8.60	0.77	0.21	0.00
5	0.00	0.00	0.00	0.00	16	44	20	189	7.10	0.56	0.07	0.00
6	0.00	0.00	0.14	0.00	19	33	18	174	4.00	0.70	0.00	0.00
7	0.00	0.00	0.07	0.00	17	28	21	139	5.20	1.05	0.00	0.00
8	0.00	0.00	0.07	0.00	14	26	25	103	4.80	1.33	0.00	0.00
9	0.00	0.00	0.14	0.00	11	22	26	74	4.00	1.05	0.00	0.00
10	0.00	0.00	0.28	0.00	10	36	25	57	3.02	0.77	0.00	0.00
11	0.00	0.00	0.49	0.00	10	74	24	42	2.48	1.05	0.00	0.00
12	0.00	0.00	0.84	0.00	9.50	103	36	36	1.76	0.98	0.00	0.00
13	0.00	0.00	1.26	0.00	9.50	95	44	33	1.40	0.84	0.00	0.00
14	0.00	0.00	2.12	0.00	19	72	37	28	1.40	0.84	0.00	0.00
15	0.00	0.00	2.84	0.00	26	59	34	26	1.94	0.84	0.00	0.00
16	0.00	0.00	2.84	0.00	30	55	30	24	2.30	0.63	0.00	0.00
17	0.00	0.00	2.84	0.00	24	55	28	24	2.84	0.49	0.00	0.00
18	0.00	0.00	3.02	0.00	20	51	27	22	3.20	0.14	0.00	0.00
19	0.00	0.00	3.40	0.00	16	52	23	21	4.00	0.00	0.00	0.00
20	0.00	0.00	3.40	0.00	15	53	20	21	3.20	0.21	0.00	0.00
21	0.00	0.00	2.48	0.00	32	46	17	21	2.66	0.42	0.00	0.00
22	0.00	0.00	2.12	0.00	59	43	14	21	2.12	0.70	0.00	0.00
23	0.00	0.00	2.30	0.00	71	39	12	22	1.58	0.70	0.00	0.00
24	0.00	0.00	1.40	0.00	44	39	12	22	1.26	0.70	0.00	0.00
25	0.00	0.00	1.05	0.00	28	47	14	21	1.05	0.70	0.00	0.00
26	0.00	0.00	0.63	0.00	28	42	21	20	0.91	0.49	0.00	0.00
27	0.00	0.00	0.42	0.00	27	38	40	18	0.77	0.28	0.00	0.00
28	0.00	0.00	0.42	0.00	28	34	103	16	0.70	0.14	0.00	0.00
29	0.00	0.00	0.42	0.00	30	31	138	15	0.70	0.14		0.00
30	0.00	0.00	0.21	0.21	38	33	167	13	0.84	0.14		0.00
31		0.00		0.63	48		221		0.78	0.00		0.00
Total	0.00	0.00	35	0.91	719	1,391	1,329	2,066	107	20	1.12	0.00
Mean	0.00	0.00	1.17	0.03	23	46	43	69	3.45	0.65	0.04	0.00
Max.	0.00	0.00	3.40	0.63	71	103	221	235	12	1.33	0.49	0.00
Min.	0.00	0.00	0.00	0.00	1.05	22	12	13	0.70	0.00	0.00	0.00
Runoff - mcm.	0.000	0.000	3.024	0.079	62.122	120.182	114.826	178.502	9.245	1.728	0.097	0.000

WATER YEAR 1965 : Max. 235 Min. 0.00 Mean 15 Annual Runoff 489.812 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 31	18.00	294.70	248				

WATER YEAR 1965
PING RIVER BASIN

Mae Ping River at Muang Kamphaengphet (P. 7A)

Location: Lat. 16° – 28' – 38" N., Long 99° – 31' – 06" E., on the right bank of the river, about 100 meters upstream from Kamphaengphet Bridge, Ban Nakhon Chum, Amphoe Muang, Kamphaengphet.

Drainage Area: 42,676 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – H.S./R.I.D. 2.
Location: Near the hourse of the gage observer.
Elevation: + 77.642 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1961 to date.

Rating Operation:
Period of Rating: 1960 – 1961, 1967.
Rated by Float: –
Rated by Current Meter: 1960 – 1961, 1967.

Stability of Channel Regimes: Unstable, flow is computed by minimum evelope curve from discharge measurements made in 1960-1961 due to the tendency of silting is observed in 1967.

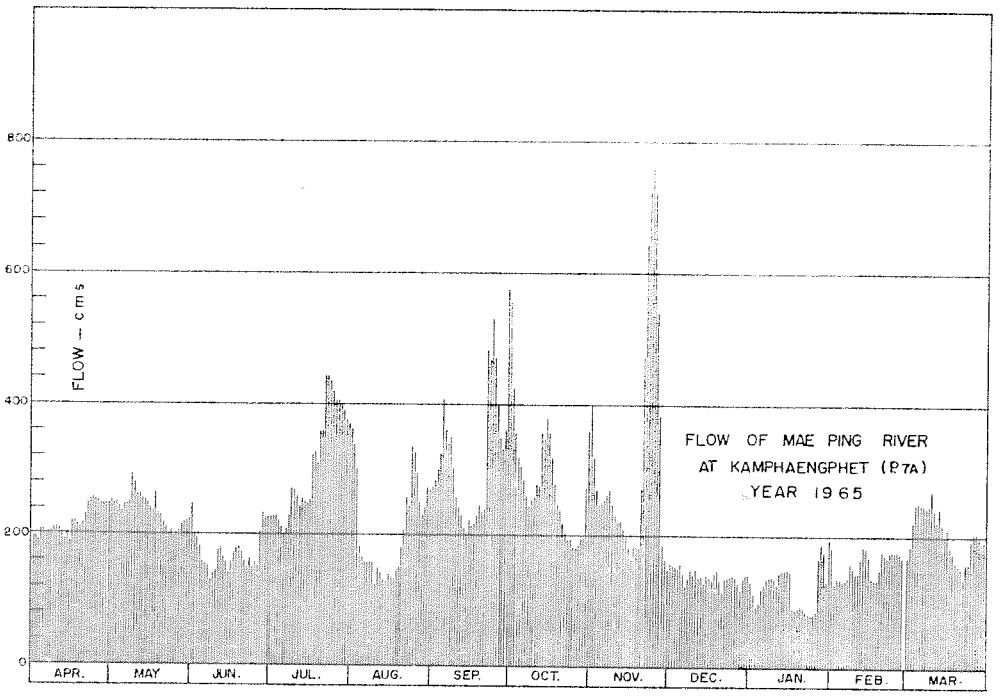
Overbank Flow Conditions: No overbank flow.

General Description: Gage record is classified as good and flow record can be classified as fair. Flow is regulated by Yanhee. Reservoir and diverted for irrigation of about 40,300 hectares above the gage site. The presented data is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	73.97	74.19	74.17	74.09	74.56	74.27	75.07	74.66	73.79	73.67	73.91	73.84
2	.97	.17	73.98	.10	.49	.30	74.74	.42	.78	.58	.65	.92
3	.94	.18	.96	.10	.36	.36	.54	.26	.77	.48	.70	74.07
4	74.01	.15	.90	.07	75.91	.44	.42	.16	.76	.51	.69	.16
5	.01	.12	.79	.03	.84	.69	.38	.18	.79	.61	.68	.18
6	73.97	74.16	73.78	73.98	73.80	74.55	74.31	74.19	73.73	73.65	73.69	74.17
7	74.01	.16	.77	74.02	.79	.52	.22	.22	.64	.68	.70	.16
8	.00	.18	.67	.10	.79	.52	.15	.25	.70	.70	.80	.15
9	.02	.34	.72	.26	.80	.37	.19	.16	.75	.71	.76	.16
10	.02	.29	.74	.25	.63	.21	.21	.11	.72	.69	.73	.25
11	74.02	74.22	73.88	74.21	73.75	74.15	74.28	74.06	73.75	73.65	73.73	74.14
12	.00	.22	.89	.15	.73	.11	.27	.07	.70	.73	.84	.07
13	73.95	.20	.84	.20	.68	.03	.54	.02	.71	.74	.91	.15
14	.99	.19	.79	.18	.63	73.99	.51	73.97	.66	.74	.90	.05
15	.93	.17	.72	.17	.72	74.07	.61	.90	.72	.75	.85	73.97
16	74.06	74.14	73.81	74.19	73.71	74.04	74.54	73.82	73.70	73.74	73.70	74.03
17	.06	.13	.86	.43	.67	.05	.42	.90	.68	.47	.69	73.91
18	.04	.23	.89	.45	.74	.10	.28	.91	.73	.46	.68	.88
19	.02	.11	.90	.39	.76	.16	.16	.90	.74	.47	.75	.80
20	.05	.10	.86	.55	.90	.12	.14	74.27	.68	.48	.88	.78
21	74.10	74.05	73.81	74.55	74.01	74.13	74.05	74.86	73.59	73.47	73.86	73.77
22	.17	.03	.76	.79	.21	.89	73.99	75.26	.69	.45	.84	.70
23	.19	73.99	.82	.79	.15	.85	.95	.42	.70	.42	.87	.79
24	.20	74.01	.75	.77	.48	75.01	.95	.48	.71	.42	.88	.79
25	.19	73.97	.78	.73	.45	74.86	.91	.42	.72	.42	.87	.94
26	74.18	74.01	73.76	74.69	74.35	74.67	73.89	75.03	73.70	73.44	73.88	74.00
27	.17	.01	74.00	.69	.18	.52	.92	74.62	.66	.83	.87	.00
28	.16	.05	.11	.67	.10	.46	.96	73.92	.61	.93	.84	73.97
29	.17	.06	.08	.64	.15	.55	.96	73.82	.61	.93		73.94
30	.17	.06	.09	.60	.26	75.11	74.26	.75	.72	.66		.95
31		.08		.58	.25		.55		.72	.96		74.02
Mean	74.06	74.16	73.86	74.37	73.99	74.40	74.22	74.33	73.71	73.62	73.79	73.99
Max.	74.20	74.34	74.17	74.79	74.56	75.11	75.07	75.48	73.79	73.96	73.91	74.25
Min.	73.93	73.97	73.67	73.98	73.63	73.99	73.89	73.75	73.61	73.42	73.65	73.70

WATER YEAR 1965 : Max. 75.48 m. Min. 73.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198	253	248	227	362	274	555	396	158	130	183	167
2	198	248	200	230	339	282	424	318	156	112	126	186
3	191	251	195	230	300	300	356	272	153	92	136	222
4	207	243	181	222	183	324	318	246	151	98	134	246
5	207	235	158	212	167	407	306	251	158	118	132	251
6	198	246	156	200	158	359	285	253	143	126	134	248
7	207	246	153	210	158	349	261	261	124	132	136	246
8	205	251	130	230	158	349	243	269	136	136	158	243
9	210	294	140	272	158	303	253	246	149	138	151	246
10	210	280	147	269	122	259	259	233	140	134	143	269
11	210	261	176	259	149	243	277	220	149	126	143	240
12	205	261	179	243	143	233	274	222	136	143	165	222
13	193	256	167	256	132	212	356	210	138	147	183	243
14	203	253	158	251	122	203	345	198	128	147	181	217
15	188	248	140	248	140	222	379	181	140	149	169	198
16	220	240	160	253	138	215	356	163	136	147	136	212
17	220	238	172	321	130	217	318	181	132	90	134	183
18	215	264	179	327	147	230	277	183	143	88	132	176
19	210	233	181	309	151	246	246	181	147	90	149	158
20	217	230	172	359	181	235	240	274	132	92	176	156
21	230	217	160	359	207	238	217	470	114	90	172	153
22	248	212	151	442	259	482	203	643	134	86	167	135
23	253	203	163	442	243	466	193	725	136	81	174	158
24	256	207	149	435	336	530	193	759	138	81	176	158
25	255	198	156	421	327	470	183	725	140	81	174	190
26	251	207	151	407	297	400	179	539	156	85	176	205
27	248	207	205	407	251	349	186	383	128	165	174	205
28	246	217	233	400	230	330	195	186	118	188	167	198
29	248	220	225	390	243	359	195	163	136	176		191
30	248	220	227	376	272	573	272	149	140	128		183
31		225		369	269		359		140	195		210
Total	6,593	7,364	5,212	9,576	6,472	9,649	8,703	9,510	4,309	3,791	4,381	5,326
Mean	220	237	174	309	209	322	281	317	139	122	156	204
Max.	256	294	248	442	362	573	555	759	158	195	183	259
Min.	188	198	130	200	122	203	179	149	114	81	126	136
Runoff - mcm.	569.635	636.250	450.317	827.366	559.181	833.674	751.939	821.664	372.298	327.542	378.[illegible]	546.[illegible]

WATER YEAR 1965 : Max. 759 Min. 81 Mean 224 Annual Runoff 7,074.950 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 24	18.00	75.51	772	Sept. 30	06.00	75.15	590

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 17° - 14' - 30" N., Long 99° - 00' - 45" E., on the right bank, about 4 kilometers downstream from Bhumiphol Dam, Tak.

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

Type of Gage: Water - stage recorder.

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

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

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1952 to date.

Rating Operation:
Period of Rating: 1952 to date.
Rated by Float: -
Rated by Current Meter: 1952 to date.

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

Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Flow is regulated by Yanhee Reservoir, and diversion for State irrigation of about 28,000 hectare at head water above the gage site. Flow data presented is from actual observation. Adjusted monthly flow, if without the Yanhee, is also shown below.

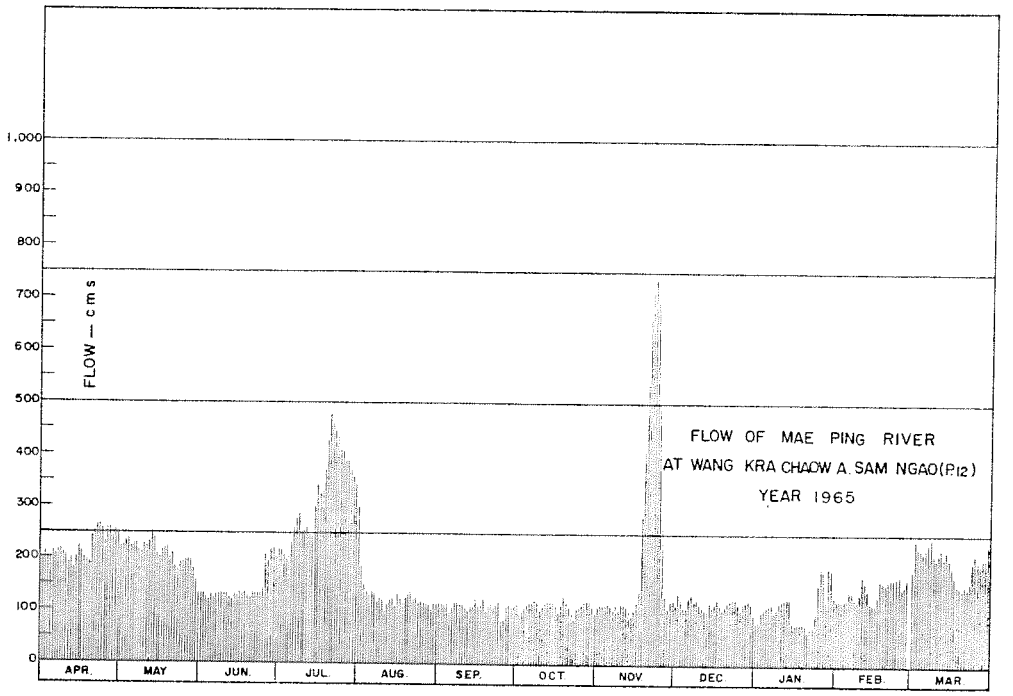
Remark:

Month	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Annual
Adjusted Runoff - mcm.	19	27	296	143	661	1,224	974	1,179	371	190	86	27	5,197

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	136.83	136.89	136.39	136.75	136.99	136.24	136.22	136.22	136.16	136.00	136.20	136.43
2	.86	.90	.39	.74	.66	.23	.21	.22	.24	.01	.20	.65
3	.84	.93	.32	.72	.37	.22	.16	.22	.18	.13	.20	.66
4	.82	.94	.29	.67	.35	.22	.20	.22	.15	.13	.20	.66
5	.87	.89	.36	.71	.33	.16	.22	.23	.08	.15	.21	.64
6	136.84	136.92	136.29	136.75	136.35	136.21	136.24	136.22	136.23	136.16	136.28	136.58
7	.88	.92	.37	.88	.34	.23	.23	.19	.22	.17	.28	.61
8	.88	.89	.38	.92	.24	.23	.25	.22	.17	.10	.20	.66
9	.87	.84	.39	.86	.30	.23	.23	.18	.19	.11	.19	.62
10	.84	.91	.39	.74	.29	.21	.17	.23	.14	.17	.26	.50
11	136.79	136.90	136.37	136.86	136.16	136.20	136.22	136.23	136.13	136.19	136.38	136.54
12	.83	.90	.33	.88	.22	.17	.23	.23	.10	.19	.35	.59
13	.75	.91	.31	.85	.26	.21	.23	.20	.09	.19	.31	.50
14	.83	.88	.39	.81	.27	.21	.24	.13	.16	.21	.18	.57
15	.90	.77	.38	.96	.21	.26	.23	.19	.13	.01	.17	.52
16	136.85	136.75	136.41	137.12	136.30	136.21	136.22	136.24	136.16	136.00	136.18	136.45
17	.83	.79	.38	.07	.26	.23	.14	.23	.20	.01	.23	.39
18	.81	.80	.40	.09	.23	.25	.23	.71	.15	.00	.36	.31
19	.90	.82	.35	.20	.29	.15	.27	137.23	.08	.00	.34	.30
20	.94	.75	.31	.29	.29	.20	.24	.30	.14	135.99	.33	.24
21	136.98	136.78	136.39	137.44	136.30	136.23	136.21	137.75	136.17	135.91	136.35	136.32
22	137.01	.69	.39	.42	.25	.21	.15	.89	.18	.96	.36	.33
23	.01	.67	.39	.37	.27	.22	.10	.93	.19	.97	.37	.41
24	136.99	.72	.39	.35	.22	.24	.12	.82	.19	.98	.36	.51
25	.92	.72	.42	.28	.24	.09	.22	.40	.15	136.25	.39	.56
26	136.99	136.74	136.71	137.28	136.23	136.12	136.25	136.63	136.11	136.44	136.29	136.51
27	.99	.74	.66	.26	.23	.21	.24	.16	.17	.41	.31	.47
28	.94	.74	.75	.23	.22	.22	.25	.09	.18	.14	.37	.53
29	.98	.68	.76	.20	.16	.20	.25	.19	.18	.45		.50
30	.97	.64	.73	.17	.22	.21	.22	.19	.16	.43		.61
31		.50		.12	.22		.15		.10	.13		.58
Mean	136.89	136.80	136.42	137.03	136.29	136.20	136.21	136.56	136.15	136.12	136.28	136.50
Max.	137.01	136.94	136.76	137.44	136.99	136.26	136.27	137.93	136.24	136.45	136.39	136.66
Min.	136.75	136.50	136.29	136.67	136.16	136.09	136.10	136.09	136.08	135.91	136.17	136.24

WATER YEAR 1965 : Max. 137.93 m. Min. 135.91 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	199	220	132	215	293	116	111	111	114	78	124	182
2	209	223	132	213	190	113	108	111	134	80	124	242
3	203	234	122	207	153	111	95	111	119	107	124	223
4	196	238	118	193	136	111	105	111	112	107	124	223
5	213	220	127	204	132	95	111	113	96	112	126	216
6	203	230	118	215	136	108	116	111	131	114	143	223
7	216	230	129	256	134	113	113	102	129	117	143	231
8	216	220	130	269	113	113	119	111	117	100	124	245
9	213	203	132	285	125	113	113	100	122	102	122	210
10	203	227	132	247	123	108	97	113	110	117	138	201
11	186	223	129	249	95	105	111	113	107	122	169	212
12	199	223	123	256	111	97	113	113	100	122	161	225
13	173	255	120	246	122	108	113	105	98	122	151	201
14	199	244	132	233	125	108	116	87	114	126	119	220
15	223	207	130	282	108	122	113	102	107	80	117	206
16	206	200	135	340	133	108	111	116	114	78	119	187
17	199	213	130	321	122	113	89	113	124	80	131	171
18	192	216	133	328	111	119	113	257	112	78	164	151
19	223	223	126	371	123	92	125	412	96	78	158	148
20	238	200	120	408	130	105	116	437	110	76	156	134
21	253	210	132	474	133	113	108	642	117	59	161	153
22	264	182	132	465	119	108	92	719	119	70	164	142
23	264	177	132	443	125	111	79	743	122	72	166	165
24	256	191	132	434	111	116	84	680	122	74	164	196
25	230	191	136	404	116	76	111	476	112	136	171	213
26	256	197	204	404	113	84	119	236	102	185	146	196
27	256	197	190	396	113	108	116	114	117	177	151	193
28	238	197	215	383	111	111	119	98	119	110	166	209
29	253	180	218	371	95	105	119	122	119	167		201
30	249	169	210	359	111	108	111	122	114	182		231
31		133		340	111		92		100	107		223
Total	6,628	6,473	4,251	9,811	3,973	3,218	3,358	6,901	3,529	3,355	4,026	6,173
Mean	221	209	142	316	128	107	108	230	114	108	144	199
Max.	264	255	218	474	293	122	125	743	134	187	171	245
Min.	173	133	118	193	95	76	79	87	96	59	117	134
Runoff - mcm.	572.659	559.267	367.286	847.670	343.267	278.035	290.131	596.246	304.906	289.872	347.846	533.347

WATER YEAR 1965 : Max. 743 Min. 59 Mean 169 Annual Runoff 5,330.534 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 19	21.00	138.19	917	Jul. 20	22.00	137.55	542

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 441.31 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. No. 6
Location: In the rubber plant garden.
Elevation: + 444.360 m. (M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashy flood peaks whose hourly flows readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1952 to date.

Rating Operation:
Period of Rating: 1952 to date.
Rated by Float: –
Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Stable, Shifting adjustment is included in flow computation.

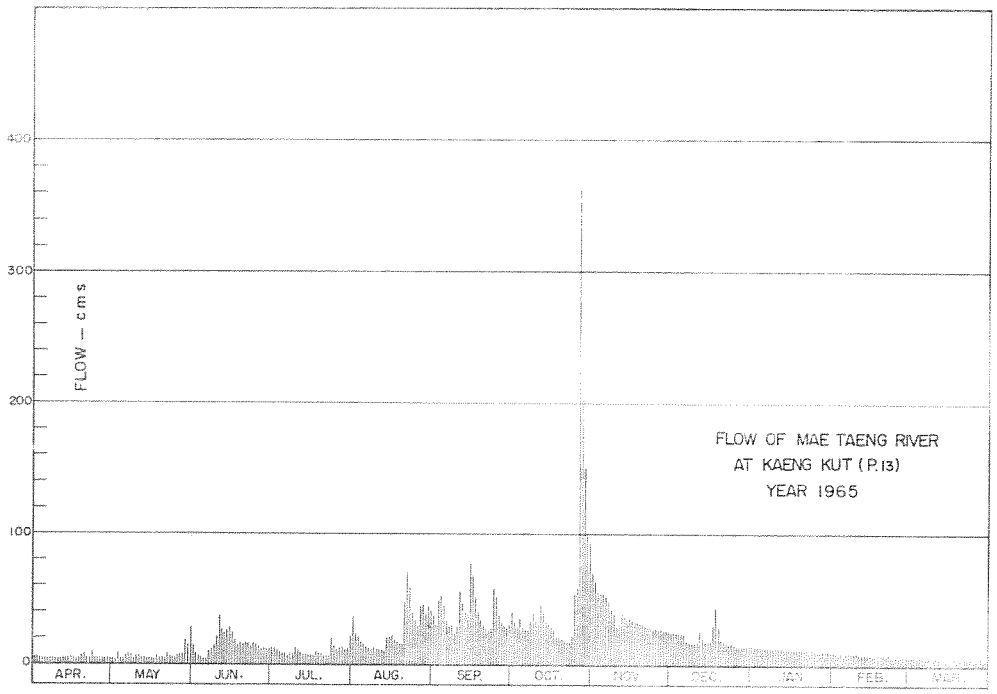
Overbank Flow Conditions: Flow begins to overtop right bank at elevation 444.20 m. (M.S.L.), overbank flow not included due to inadequate field data.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made in water year 1965. No State diversions above this station, except for those built by farmers, adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	441.84	441.79	442.15	441.98	442.61	442.45	442.48	443.07	442.29	442.15	442.05	441.98
2	.84	.78	.01	.98	.36	.33	.35	.00	.29	.15	.06	.98
3	.83	442.00	441.92	.93	.27	.63	.31	442.90	.28	.14	.05	.97
4	.83	441.87	.89	.90	.20	.66	.41	443.11	.27	.14	.05	.97
5	.83	.86	.86	.88	.13	.56	.30	442.87	.26	.13	.04	.97
6	441.83	441.92	441.85	441.87	442.07	442.59	442.27	442.77	442.26	442.13	442.04	441.97
7	.83	.99	.87	.90	.09	.32	.25	.72	.25	.13	.04	.97
8	.83	.97	.89	.93	.05	.33	.39	.67	.25	.12	.04	.96
9	.83	.87	.96	.94	.09	.28	.46	.63	.24	.12	.04	.96
10	.82	.90	442.13	442.11	.05	.33	.39	.60	.24	.12	.04	.96
11	441.82	441.92	442.39	442.05	442.03	442.76	442.33	442.58	442.34	442.11	442.03	441.96
12	.85	.88	.22	.00	.05	.62	.57	.57	.28	.11	.03	.96
13	.84	.85	.15	441.96	.02	.54	.50	.53	.24	.10	.02	.96
14	.87	.82	.21	.92	.27	.50	.36	.50	.23	.10	.02	.95
15	.86	.81	.23	.91	.29	443.10	.36	.49	.22	.10	.02	.95
16	441.85	441.80	442.18	441.90	442.30	442.98	442.29	442.48	442.25	442.10	442.02	441.95
17	.83	.79	.07	.90	.22	.67	.26	.46	.35	.09	.01	.95
18	.82	.91	.04	.98	.17	.50	.23	.45	.54	.08	.01	.94
19	.92	.87	.07	.92	.17	.40	.20	.44	.36	.08	.00	.94
20	.97	.86	.04	.91	.16	.34	.18	.43	.25	.08	.00	.93
21	441.88	441.84	442.08	441.86	442.65	442.31	442.17	442.41	442.22	442.08	442.00	441.93
22	.85	.98	.06	.85	.89	.30	.16	.39	.20	.08	.00	.93
23	.97	.92	.01	.91	.76	.32	.15	.37	.19	.08	441.99	.92
24	.87	.89	.06	442.26	.48	.76	.26	.36	.18	.08	.99	.92
25	.85	.96	.04	.15	.44	.68	.61	.35	.17	.08	.99	.92
26	441.84	441.93	441.97	442.04	442.37	442.49	442.67	442.33	442.17	442.07	441.99	441.92
27	.82	.93	.95	.09	.51	.38	444.12	.33	.17	.07	.98	.92
28	.81	442.00	.97	.11	.52	.33	445.36	.32	.16	.09	.98	.92
29	.81	.27	.96	.06	.41	.28	443.87	.32	.16	.09		.92
30	.79	.16	.96	.06	.55	.33	.35	.30	.15	.08		.91
31		.43		.28	.55		.21		.15	.07		.91
Mean	441.84	441.92	442.03	441.98	442.31	442.49	442.61	442.55	442.24	442.10	442.01	441.94
Max.	441.97	442.43	442.39	442.28	442.89	443.10	445.36	443.11	442.54	442.15	442.06	441.98
Min.	441.79	441.78	441.85	441.85	442.02	442.28	442.15	442.30	442.15	442.07	441.98	441.91

WATER YEAR 1965 : Max. 445.36 m. Min. 441.78 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.18	4.10	15	13	38	37	40	70	25	15	10	7.44
2	5.18	3.89	9.68	13	24	30	32	64	25	14	10	7.44
3	4.91	9.36	6.80	11	21	49	29	56	25	14	9.68	7.12
4	4.91	5.45	5.99	10	18	52	35	73	24	14	9.68	7.12
5	4.91	5.18	5.18	9.36	15	44	28	54	24	13	9.36	7.12
6	4.91	6.80	4.91	9.04	13	33	27	52	24	13	9.36	7.12
7	4.91	9.04	11	7.44	13	29	26	48	18	13	9.36	7.12
8	4.91	8.40	12	8.40	12	30	33	42	18	13	9.36	6.80
9	4.91	5.72	15	8.72	13	25	38	38	17	13	9.36	6.80
10	4.37	6.53	22	13	12	28	33	28	17	13	9.36	6.80
11	4.64	7.12	37	11	12	56	30	32	19	13	9.04	6.80
12	5.45	5.99	27	9.68	12	46	45	39	25	13	9.04	6.80
13	5.18	5.18	24	9.04	11	40	40	37	20	12	8.72	6.80
14	5.99	4.37	27	7.76	20	38	32	35	18	12	8.72	6.53
15	5.72	4.91	28	7.44	21	77	32	35	18	12	8.72	6.53
16	5.45	4.64	25	7.12	22	67	28	34	19	12	8.72	6.53
17	4.91	4.37	19	7.12	19	52	26	33	32	12	8.40	6.53
18	4.91	6.53	15	10	17	40	21	32	44	12	8.40	6.26
19	7.12	5.45	17	8.40	16	33	20	32	28	12	8.08	6.26
20	8.72	5.72	15	8.08	16	30	19	31	19	12	8.08	5.99
21	5.99	5.18	17	6.53	48	27	18	30	18	12	8.08	5.99
22	5.45	8.40	16	6.26	70	26	18	29	17	12	8.08	5.99
23	9.04	6.53	14	6.53	59	28	18	28	16	12	7.76	5.72
24	5.99	5.53	16	20	39	58	23	27	16	12	7.76	5.72
25	5.45	5.72	15	15	33	52	54	28	15	12	7.76	5.72
26	5.18	7.44	13	11	29	38	58	27	15	11	7.76	5.99
27	4.64	7.44	12	13	44	32	206	27	15	10	7.44	5.99
28	4.37	8.72	13	13	45	29	361	27	15	11	7.44	5.99
29	4.64	19	12	12	38	28	150	27	15	11		5.99
30	4.10	15	12	12	44	31	98	26	15	11		5.72
31		28		21	40		15		16	10		5.72
Total	162	237	481	325	834	1,185	1,701	1,141	632	381	243	180
Mean	5.40	7.64	16	10	27	39	54	38	20	12	8.68	6.45
Max.	8.72	28	37	21	70	77	361	73	44	15	10	7.44
Min.	4.10	4.10	4.91	6.26	11	26	15	26	15	10	7.44	5.72
Runoff - mcm.	13.997	20.477	41.558	28.080	72.058	102.384	146.966	98.582	54.605	32.918	20.995	17.280

WATER YEAR 1965 : Max. 361 Min. 4.10 Mean 21 Annual Runoff 649.901 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	01.00	446.03	478				

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 18° – 13' – 49" N., Long 98° – 38' – 35" E., on the right bank near Hot-Mae Sariang highway at Km. 7.500, Amphoe Hot, Chiang Mai.

Drainage Area: 3,822 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: B.M. – H.S./R.I.D. No. 13
Location: In front of the office of station P. 14
Elevation: + 282.079 m. (M.S.L.)

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

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

Period of Available Gage Records: 1953 to date.

Rating Operation:
Period of Rating: 1953 – 60.
Rated by Float: –
Rated by Current Meter: 1953 – 60.

Stability of Channel Regimes: Stable. Shifting adjustment not included in flow computation in the year without rating.

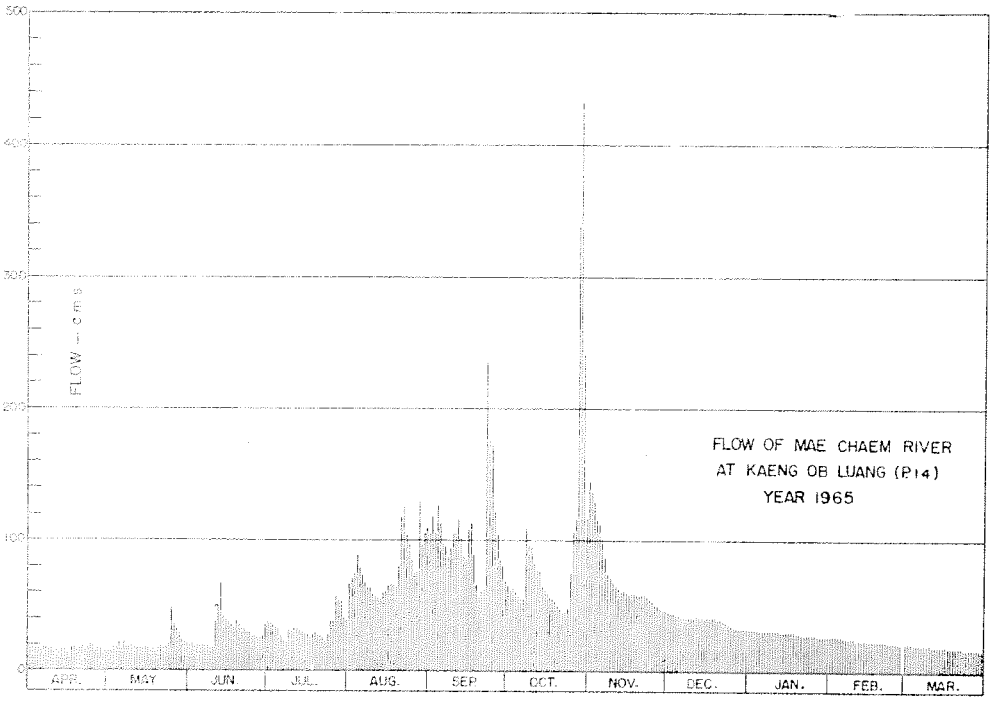
Overbank Flow Conditions: No overbank flow

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made during 1953 – 60. There areno diversions above the station, except those built by farmers, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	276.85	276.79	276.90	277.18	277.50	277.80	277.48	278.07	277.29	277.10	277.02	276.91
2	.85	.79	.90	.17	.53	.89	.44	.02	.27	.10	.02	.90
3	.85	.86	.90	.14	.57	.80	.47	277.97	.27	.10	.02	.90
4	.84	.84	.89	.12	.68	.95	.43	.88	.25	.10	.02	.90
5	.84	.93	.89	.10	.60	.80	.40	.86	.25	.09	.01	.89
6	276.84	276.85	276.89	277.02	277.55	277.66	277.38	277.76	277.24	277.09	277.00	276.89
7	.84	.94	.88	276.96	.51	.72	.38	.66	.23	.09	.00	.89
8	.83	.86	.87	.95	.47	.67	.83	.57	.23	.09	276.99	.88
9	.83	.90	.85	277.08	.47	.71	.72	.53	.23	.09	.98	.88
10	.81	.87	.85	.07	.42	.80	.72	.51	.23	.09	.98	.88
11	276.81	276.86	277.18	277.12	277.40	277.80	277.63	277.48	277.23	277.08	276.97	286.87
12	.80	.85	.33	.10	.30	.88	.58	.46	.24	.08	.97	.87
13	.80	.85	.50	.09	.38	.78	.58	.44	.23	.07	.97	.87
14	.80	.85	.24	.07	.43	.66	.48	.44	.23	.07	.96	.86
15	.79	.84	.20	.05	.43	.65	.45	.43	.22	.06	.96	.86
16	276.79	276.84	277.17	277.04	277.48	277.82	277.43	277.42	277.22	277.06	276.95	286.86
17	.84	.83	.16	.02	.49	.86	.39	.42	.22	.06	.95	.85
18	.84	.83	.12	.04	.49	.67	.38	.42	.23	.06	.95	.85
19	.84	.81	.17	.05	.48	.48	.37	.42	.23	.05	.94	.85
20	.83	.84	.15	.04	.61	.40	.33	.41	.21	.05	.94	.84
21	276.86	276.86	277.12	277.02	277.89	277.43	277.31	277.41	277.21	277.04	276.94	286.84
22	.85	.85	.10	276.98	.95	.45	.29	.42	.19	.04	.94	.84
23	.84	.86	.07	.94	.83	278.59	.28	.40	.18	.03	.93	.83
24	.89	.90	.05	277.04	.74	.26	.30	.39	.16	.03	.93	.83
25	.86	277.31	.03	.19	.65	.24	.57	.37	.14	.03	.92	.83
26	276.85	277.15	277.02	277.19	277.57	277.93	277.81	277.34	277.13	277.03	276.92	276.82
27	.84	.12	.00	.40	.57	.79	.84	.33	.13	.02	.91	.82
28	.83	.05	276.98	.37	.97	.65	277.09	.32	.12	.02	.91	.82
29	.81	276.96	277.02	.37	.75	.61	.49	.30	.12	.02		.81
30	.80	.93	.16	.22	.81	.51	278.62	.30	.11	.02		.81
31		.90		.20	.83		.27		.10	.02		.81
Mean	276.83	276.90	277.05	277.11	277.59	277.75	277.66	277.52	277.20	277.06	276.94	286.86
Max.	266.89	277.31	277.50	277.40	277.97	278.59	278.62	278.07	277.29	277.10	277.02	276.91
Min.	266.79	276.81	276.85	276.94	277.30	277.40	277.28	277.30	277.10	277.02	276.91	276.81

WATER YEAR 1965 : Max. 278.62 m. Min. 276.79 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18	15	21	38	67	105	65	145	46	32	27	21
2	18	15	21	37	71	118	61	137	45	32	27	21
3	18	19	21	35	75	105	64	129	45	32	27	21
4	18	18	20	33	89	126	60	116	43	32	27	21
5	18	22	20	32	79	113	57	113	43	31	27	20
6	18	18	20	27	73	97	55	100	42	31	26	20
7	18	23	20	24	68	95	55	87	41	31	26	20
8	17	19	19	25	64	88	109	75	41	31	25	20
9	17	21	18	31	64	93	95	71	41	31	25	20
10	16	19	18	30	59	105	95	68	41	31	25	20
11	16	19	38	33	57	105	83	65	41	31	24	19
12	16	18	50	32	56	116	77	63	42	31	24	19
13	16	18	67	31	55	102	77	61	41	30	24	19
14	16	18	42	30	60	87	65	61	41	30	24	19
15	15	18	39	29	60	85	62	60	41	30	24	19
16	15	18	38	28	65	108	60	59	41	30	23	19
17	18	17	36	27	66	113	56	59	41	30	23	18
18	18	17	33	28	66	88	55	59	41	30	23	18
19	18	16	38	29	65	65	54	59	41	29	23	18
20	17	18	36	28	80	57	50	58	40	29	23	18
21	19	19	35	27	118	60	48	58	40	28	23	18
22	18	18	32	25	126	62	46	59	38	28	23	18
23	18	19	30	23	109	235	45	57	38	28	22	17
24	20	21	29	28	97	176	47	56	36	28	22	17
25	19	48	28	38	85	172	75	54	35	28	22	17
26	18	36	27	38	75	135	106	51	34	28	22	17
27	18	33	26	37	75	104	111	50	34	27	21	17
28	17	29	25	54	129	85	338	49	33	27	21	17
29	16	24	27	54	98	80	432	47	33	27		16
30	16	22	36	41	106	68	241	47	33	27		16
31		21		39	109		117		32	27		16
Total	520	656	908	1,029	2,466	3,126	3,021	2,173	1,224	917	673	576
Mean	21	21	30	33	79	104	97	72	39	30	24	19
Max.	20	48	67	57	129	235	432	145	46	32	27	21
Min.	15	15	18	23	55	57	45	47	32	27	21	16
Runoff - MCM.	55.568	56.678	78.451	88.906	211.334	270.086	261.014	187.747	105.764	79.229	58.147	49.766

WATER YEAR 1965 : Max. 432 Min. 15 Mean 47 Annual Runoff 1,500.595 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	18.00	278.52	441				

WATER YEAR 1965
PING RIVER BASIN

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

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

Drainage Area: 3,878 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 262.700 m. (M.S.L.)

Bench Mark: B.M. – H.S./R.I.D. No. 11
Location: Infront of the office of station P. 14A.
Elevation: + 267.062 m. (M.S.L.)

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

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

Period of Available Gage Records: 1958 to date.

Rating Operation:
Period of Rating: 1958 – 60, 1964.
Rated by Float: –
Rated by Current Meter: 1958 – 60, 1964.

Stability of Channel Regimes: Very stable, shifting adjustment is not necessary in flow computation.

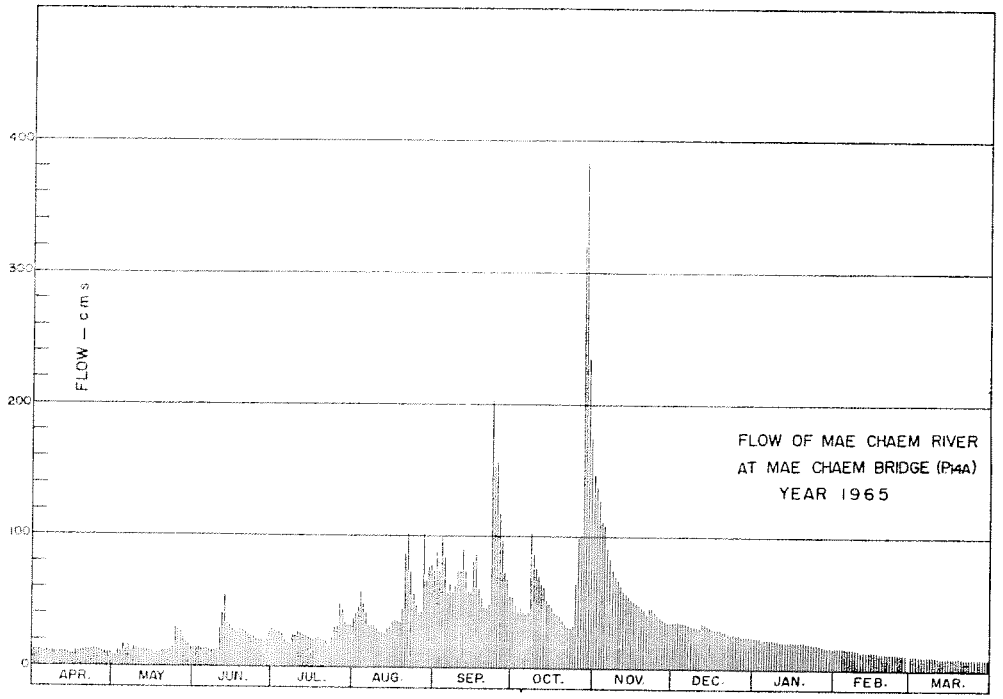
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by measurements made during 1958 – 60, and 1964. There are no diversions above this station, except those built by local farmers, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	262.96	262.91	263.00	263.18	263.26	263.55	263.40	263.98	263.24	263.11	263.03	262.94
2	.96	.91	.00	.17	.29	.65	.35	.93	.24	.11	.03	.94
3	.96	.97	.00	.15	.33	.55	.31	.88	.24	.11	.02	.94
4	.95	.95	262.99	.14	.43	.72	.33	.79	.24	.10	.02	.93
5	.95	263.02	.99	.13	.36	.62	.31	.77	.23	.10	.02	.93
6	262.95	262.96	262.99	263.08	263.30	263.42	263.30	263.67	263.23	263.10	263.01	262.93
7	.95	263.03	.98	.05	.20	.48	.30	.62	.22	.10	.01	.92
8	.94	262.97	.97	.04	.20	.43	.74	.56	.21	.09	.01	.92
9	.94	263.00	.96	.12	.20	.47	.63	.52	.21	.09	.00	.92
10	.93	262.98	.96	.11	.18	.55	.57	.50	.20	.09	.00	.91
11	262.93	262.97	263.18	263.14	263.16	263.55	263.52	263.47	263.20	263.09	262.99	262.91
12	.92	.96	.29	.13	.15	.66	.47	.44	.23	.08	.99	.91
13	.92	.96	.41	.12	.13	.55	.46	.42	.22	.08	.99	.91
14	.92	.96	.22	.11	.18	.43	.38	.41	.21	.08	.98	.91
15	.91	.95	.20	.10	.19	.43	.36	.39	.20	.08	.98	.91
16	262.91	262.95	263.17	263.09	263.23	263.60	263.34	263.38	263.19	263.08	262.98	262.90
17	.95	.94	.15	.08	.24	.64	.30	.37	.19	.08	.98	.90
18	.95	.94	.14	.09	.24	.45	.29	.36	.19	.08	.97	.90
19	.95	.93	.17	.10	.23	.40	.28	.34	.18	.07	.97	.90
20	.94	.95	.16	.09	.32	.33	.24	.32	.17	.07	.97	.90
21	262.97	262.97	263.14	263.08	263.64	263.33	263.22	263.30	263.17	263.06	262.96	262.89
22	.96	.96	.13	.06	.73	.35	.20	.34	.15	.06	.96	.89
23	.97	.97	.11	.03	.55	264.26	.19	.33	.14	.06	.96	.89
24	.99	263.00	.10	.09	.42	.01	.21	.31	.14	.05	.96	.89
25	.97	.28	.09	.19	.35	.03	.48	.29	.13	.05	.95	.89
26	262.96	263.16	263.08	263.19	263.30	263.82	263.72	263.28	263.13	263.05	262.95	262.88
27	.95	.14	.07	.35	.31	.70	.73	.26	.13	.04	.95	.88
28	.94	.10	.06	.32	.73	.54	264.74	.25	.12	.04	.95	.88
29	.93	.05	.08	.22	.50	.51	.95	.24	.12	.03		.88
30	.92	.03	.15	.21	.58	.41	.40	.24	.12	.03		.88
31		.00		.20	.58		.12		.12	.03		.88
Mean	262.94	263.06	263.11	263.13	263.34	263.58	263.54	263.49	263.18	263.07	262.98	262.90
Max.	262.99	263.28	263.41	263.35	263.73	264.26	264.95	263.98	263.24	263.11	263.03	262.94
Min.	262.91	262.91	262.96	263.03	263.13	263.33	263.19	263.24	263.12	263.03	262.95	262.88

WATER YEAR 1965 : Max. 264.95 m. Min. 262.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12	9.50	14	29	37	73	53	146	35	23	16	11
2	12	9.50	14	28	40	88	47	137	35	23	16	11
3	12	12	14	26	45	73	42	127	35	23	16	11
4	11	11	13	26	57	99	45	111	35	22	16	10
5	11	16	13	25	48	83	42	108	34	22	16	10
6	11	12	13	20	41	56	41	91	34	22	15	10
7	11	16	13	18	31	63	41	83	33	22	15	10
8	11	12	12	17	31	57	103	74	32	21	15	10
9	11	14	12	24	31	62	85	69	32	21	14	10
10	10	13	12	23	29	73	76	66	31	21	14	10
11	10	12	29	26	27	73	69	62	31	21	13	9.50
12	10	12	40	25	26	90	62	58	34	20	13	9.50
13	10	12	54	24	25	73	61	56	33	20	13	9.50
14	10	12	33	23	29	57	51	54	32	20	13	9.50
15	9.50	11	31	22	30	57	48	52	31	20	13	9.50
16	9.50	11	28	21	34	80	46	51	30	20	13	9.00
17	11	11	26	20	35	86	41	49	30	20	13	9.00
18	11	11	26	21	35	59	40	48	30	20	12	9.00
19	11	10	28	22	34	53	39	46	29	20	12	9.00
20	11	11	27	21	43	45	35	43	28	20	12	9.00
21	12	12	26	20	86	45	33	41	28	19	12	8.50
22	12	12	25	19	101	47	31	46	26	19	12	8.50
23	12	12	23	16	73	203	30	45	26	19	12	8.50
24	13	14	22	21	56	152	32	42	26	18	12	8.50
25	12	39	21	30	47	156	63	40	25	18	11	8.50
26	12	27	20	30	41	117	99	39	25	18	11	8.00
27	11	26	20	47	42	96	101	37	25	17	11	8.00
28	11	22	19	43	101	72	320	36	24	17	11	8.00
29	10	18	20	33	66	67	383	35	24	16		8.00
30	10	16	26	32	77	54	234	35	24	16		8.00
31		14		31	77		174		24	16		8.00
Total	330	450	648	783	1,475	2,253	2,498	1,927	921	614	372	286
Mean	11	14	22	25	47	75	80	64	30	19	13	9.22
Max.	13	39	54	47	101	203	383	146	35	23	16	11
Min.	9.50	9.50	12	16	25	45	30	35	24	16	11	8.00
Runoff - mcm.	28.512	38.880	55.987	67.651	127.440	194.659	215.827	166.493	79.574	53.050	32.141	24.710

WATER YEAR 1965 : Max. 383 Min. 8.00 Mean 34 Annual Runoff 1,084.924 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	18.00	264.97	390				

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 15° – 56' – 02" N., Long 99° – 58' – 49" E., On the right bank of the river, about 300 meters upstream from the District Office, Tambon Som Siso, Amphoe Banphot Phisai, Nakhon Sawan.

Drainage Area: 45,791 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 32.00 m. (M.S.L.)

Bench Mark: B.J.P. 17 – H.S.
Location: At the post of transmission line near the 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 which is adequate to represent its mean daily value.

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1960, 1967.
Rated by Float: –
Rated by Current Meter: 1960, 1967.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual ratings.

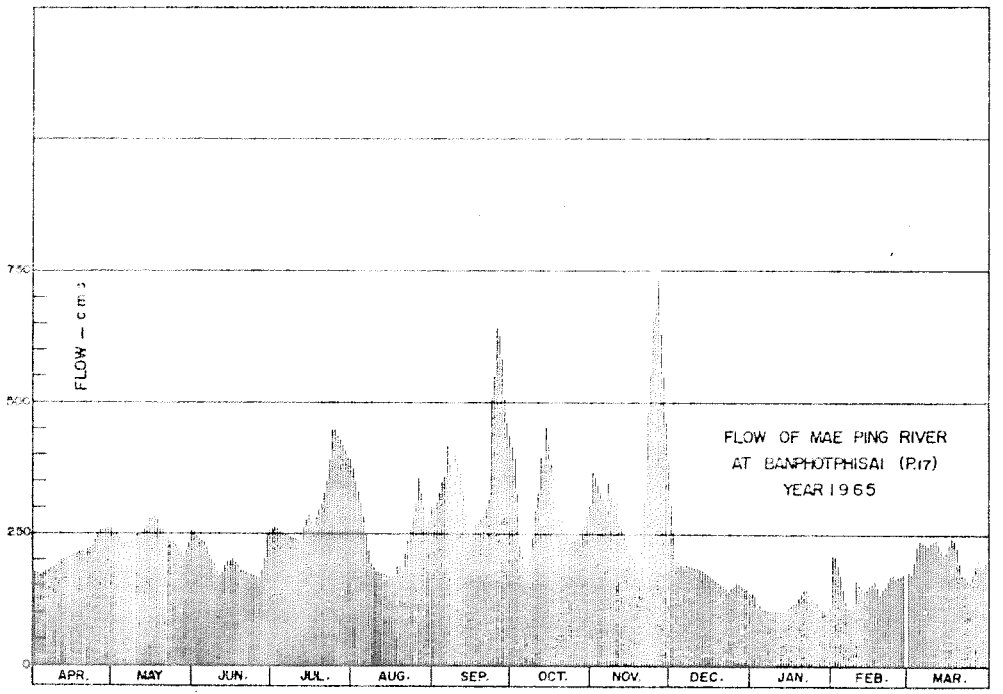
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made in 1960. Flow is regulated by Yanhee Reservoir and diverted for irrigation of about 40,300 hectares above the gage site. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.79	35.12	35.13	35.15	35.57	35.30	35.70	35.54	35.32	34.58	34.93	34.78
2	.78	.11	.10	.16	.48	.34	.62	.51	.13	.54	.92	.77
3	.77	.09	.07	.15	.40	.40	.40	.46	34.89	.47	.86	.88
4	.78	.06	.06	.13	.33	.48	.01	.41	.88	.45	.76	35.00
5	.80	.05	.04	.12	.24	.50	34.93	.37	.87	.40	.62	.05
6	34.81	35.05	35.00	35.11	35.11	35.71	34.85	35.32	34.86	34.40	34.50	35.04
7	.82	.06	34.94	.10	34.97	.59	.89	.47	.86	.39	.44	.02
8	.83	.07	.90	.09	.87	.54	.97	.39	.85	.39	.40	.01
9	.85	.08	.86	.08	.83	.65	35.09	.33	.84	.38	.49	.03
10	.87	.09	.79	.07	.81	.60	.29	.36	.83	.38	.71	.05
11	34.89	35.10	34.75	35.06	34.79	35.52	35.40	35.18	34.83	34.37	34.65	35.06
12	.90	.12	.79	.05	.78	.41	.64	.15	.82	.37	.62	.02
13	.91	.15	.85	.16	.77	.25	.60	.12	.81	.38	.60	34.97
14	.92	.18	.88	.22	.76	.13	.82	.06	.79	.40	.61	.94
15	.93	.22	.89	.25	.75	.08	.72	34.98	.77	.42	.64	.93
16	34.94	35.24	34.90	35.20	34.75	35.12	35.59	34.92	34.75	34.45	34.67	35.03
17	.95	.24	.88	.17	.75	.18	.50	.89	.73	.47	.69	.07
18	.96	.22	.85	.24	.84	.18	.42	.88	.71	.50	.64	.06
19	.97	.18	.82	.29	.84	.21	.33	.88	.69	.53	.58	34.99
20	.98	.15	.80	.33	.80	.24	.24	.97	.67	.58	.61	.87
21	34.99	35.12	34.79	35.40	34.95	35.29	35.16	35.35	34.66	34.61	34.64	34.75
22	35.00	.09	.78	.49	35.06	.35	.12	.91	.62	.62	.71	.74
23	.02	.06	.78	.62	.13	36.00	.07	36.15	.59	.59	.74	.70
24	.08	.05	.76	.81	.23	.11	.06	.42	.63	.54	.76	.69
25	.12	.03	.75	.81	.31	.36	.05	.46	.65	.50	.72	.76
26	35.13	34.99	34.74	35.78	35.50	36.32	35.07	36.59	34.69	34.47	34.74	34.84
27	.14	.96	.82	.75	.40	.20	.12	.33	.67	.44	.75	.88
28	.14	.95	.91	.72	.31	35.99	.16	.11	.66	.41	.77	.85
29	.15	.98	35.11	.68	.20	.85	.19	35.85	.64	.40		.83
30	.15	35.04	.14	.64	.22	.77	.23	.61	.61	.40		.87
31		.13		.61	.31	.31			.58	.43		.90
Mean	34.94	35.10	34.90	35.34	35.07	35.56	35.27	35.53	34.77	34.46	34.67	34.91
Max.	35.15	35.24	35.14	35.81	35.57	36.36	35.82	36.59	35.32	34.62	34.93	35.07
Min.	34.77	34.95	34.74	35.05	34.75	35.08	34.85	34.88	34.58	34.37	34.40	34.69

WATER YEAR 1965 : Max. 36.59 m. Min. 34.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	178	253	256	261	375	300	414	367	305	139	209	177
2	176	251	248	264	349	311	390	358	256	132	207	174
3	174	246	241	261	327	327	327	344	200	120	193	198
4	176	239	239	256	308	349	227	330	198	116	172	225
5	180	236	234	253	284	355	209	319	195	108	147	236
6	182	236	225	251	251	417	191	305	193	106	125	234
7	184	239	211	248	218	381	200	347	193	106	115	230
8	186	241	202	246	195	367	218	324	191	106	108	227
9	191	243	193	243	167	399	246	308	189	105	123	232
10	195	246	178	241	182	384	297	316	187	105	163	236
11	200	248	170	239	178	561	327	269	187	103	152	239
12	202	253	178	236	176	330	396	261	184	103	147	230
13	204	261	191	264	174	287	384	253	182	105	143	218
14	207	269	198	279	172	256	451	239	178	108	145	211
15	209	279	200	287	170	243	420	220	174	111	152	218
16	211	284	202	274	170	253	381	207	170	116	156	230
17	213	284	198	266	170	269	355	200	167	120	159	241
18	216	279	191	284	189	269	333	198	163	125	150	239
19	218	269	184	297	189	277	308	198	159	130	139	223
20	220	261	180	308	180	284	284	218	156	139	145	195
21	223	253	178	327	213	297	264	313	154	145	150	170
22	225	246	176	352	230	313	253	480	147	147	153	159
23	230	239	176	390	256	510	241	562	141	141	160	161
24	243	236	172	448	282	548	239	664	148	132	172	168
25	253	232	170	448	303	641	236	679	152	125	165	172
26	256	223	169	439	355	626	241	731	159	120	164	159
27	258	216	184	429	327	580	252	629	156	115	170	168
28	258	213	204	420	303	507	264	548	154	110	174	161
29	261	220	251	408	274	461	271	461	150	108		157
30	261	234	258	396	279	436	282	387	145	108		159
31		256		387	303		303		139	115		162
Total	641	7,685	6,057	9,702	7,558	11,338	9,205	11,035	5,472	3,659	4,382	5,486
Mean	21	248	202	313	244	378	297	367	176	118	156	206
Max.	261	284	258	448	375	641	451	731	385	147	209	241
Min.	174	213	169	236	167	243	191	198	139	103	108	159
Runoff - MCM.	55.382	663.984	523.325	838.253	633.301	979.603	795.312	953.424	472.781	317.002	378.408	553.478

WATER YEAR 1965: Max. 731 Min. 103 Mean 228 Annual Runoff 7,184.160 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 26	06.00	36.61	739	Sept. 25	06.00	36.41	660

WATER YEAR 1965
PING RIVER BASIN

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

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

Drainage Area: 14,048 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. – AZ. 1
Location: In front of the office of station P. 19A.
Elevation: + 283.561 m. (M.S.L.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. Hourly flow basis is used if necessary.

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, shifting adjustment is included in flow computation.

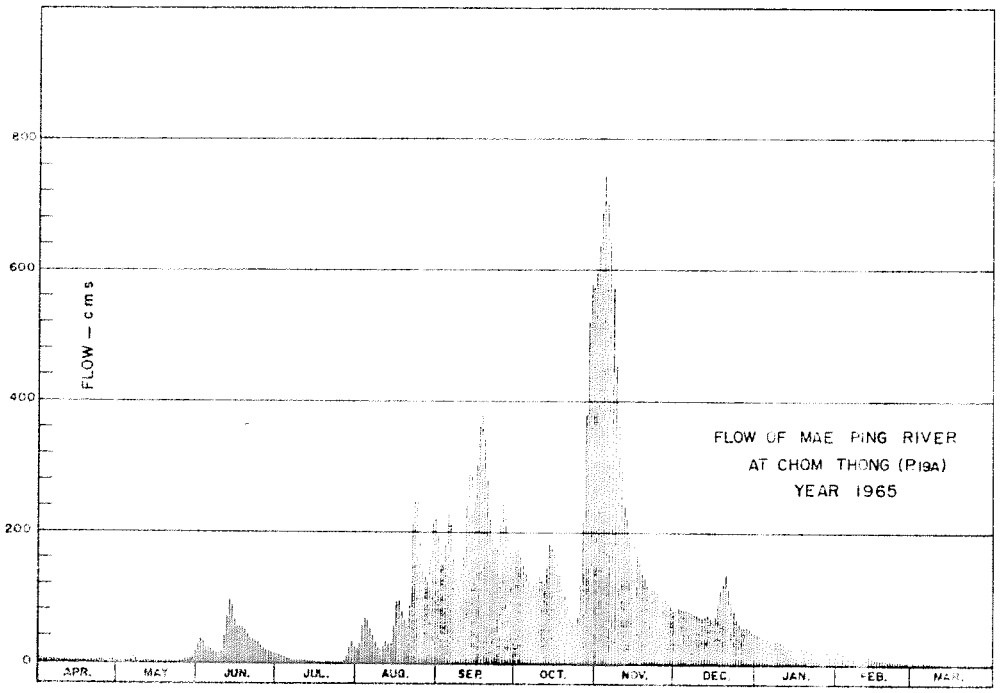
Overbank Flow Conditions: Overbank flow was observed and measured during the period October 23 – November 8, 1965 and being included in total flow computation.

General Description: Records are classified as good, except those for period February 1 – March 31, 1966 which are poor. Upstream diversions for irrigation of about 28,000 hectares. The data presented is from actual flow at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	272.21	272.15	272.69	272.49	272.59	273.88	273.70	275.48	273.24	272.88	272.63	272.42
2	.21	.12	.81	.44	.71	.71	.70	.64	.22	.85	.63	.42
3	.21	.12	.77	.41	273.07	.60	.62	.81	.20	.84	.62	.40
4	.20	.13	.71	.38	.13	.82	.58	.88	.18	.83	.62	.40
5	.17	.13	.66	.36	.08	274.00	.52	.78	.16	.82	.62	.38
6	272.16	272.13	272.60	272.33	272.97	273.91	273.39	275.62	273.16	272.80	272.62	272.37
7	.16	.20	.57	.29	.86	.66	.33	.49	.15	.79	.62	.37
8	.13	.53	.56	.26	.76	.57	.36	.22	.14	.78	.62	.37
9	.12	.41	.55	.25	.68	.46	.40	274.79	.14	.76	.62	.37
10	.11	.27	.60	.25	.62	.52	.43	.43	.12	.75	.62	.37
11	272.11	272.24	272.82	272.24	272.67	273.66	273.39	274.22	273.12	272.75	272.62	272.38
12	.10	.20	273.05	.25	.72	274.03	.38	.04	.12	.70	.59	.38
13	.09	.19	.30	.26	.69	.25	.55	273.91	.14	.68	.57	.38
14	.08	.18	.21	.24	.69	.22	.71	.79	.12	.68	.54	.38
15	.07	.16	.13	.21	.89	.02	.66	.70	.10	.68	.53	.38
16	272.08	272.18	273.03	272.18	273.25	274.26	273.62	273.64	273.08	272.68	272.52	272.38
17	.08	.22	.03	.15	.28	.55	.52	.57	.20	.69	.50	.33
18	.08	.17	.00	.14	.20	.61	.47	.55	.35	.68	.50	.28
19	.10	.17	272.95	.14	.04	.44	.38	.50	.42	.67	.50	.26
20	.10	.19	.88	.15	272.98	.15	.28	.43	.48	.67	.50	.24
21	272.11	272.18	272.83	272.11	273.21	273.93	273.18	273.42	273.33	272.66	272.50	272.21
22	.11	.18	.81	.09	.85	.80	.09	.41	.20	.67	.49	.14
23	.15	.18	.80	.08	274.13	.73	.00	.41	.13	.66	.48	.14
24	.18	.19	.77	.08	.14	.73	272.97	.40	.08	.66	.47	.14
25	.18	.24	.68	.08	273.90	.96	273.09	.40	.05	.64	.45	.12
26	272.16	272.31	272.64	272.08	273.62	274.05	273.62	273.38	273.01	272.63	272.43	272.12
27	.16	.34	.62	.25	.47	273.92	274.01	.34	272.98	.63	.42	.12
28	.16	.34	.60	.42	.42	.78	.61	.31	.97	.62	.42	.12
29	.18	.34	.54	.62	.64	.66	275.24	.28	.94	.63		.10
30	.16	.40	.53	.72	.89	.66	.43	.26	.90	.63		.10
31		.60		.60	.94		.41		.89	.63		.10
Mean	272.14	272.24	272.79	272.27	273.32	273.95	273.67	274.17	273.14	272.71	272.54	272.28
Max.	272.21	272.60	273.30	272.72	274.14	274.61	275.43	275.88	273.48	272.88	272.63	272.42
Min.	272.07	272.12	272.53	272.08	272.59	273.46	272.97	273.26	272.89	272.63	272.42	272.10

WATER YEAR 1965 : Max. 275.88 m. Min. 272.07 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.20	3.16	28	15	24	199	176	607	82	46	21	3.06
2	5.20	2.32	38	13	34	174	171	661	86	44	21	3.06
3	5.20	0.00	35	12	64	151	156	718	83	42	19	2.30
4	4.80	0.00	29	9.80	71	192	149	742	83	41	19	2.30
5	3.72	0.00	24	8.60	65	227	138	694	80	40	19	2.02
6	3.44	0.00	20	7.20	53	209	125	642	80	37	19	1.88
7	3.44	0.84	18	6.40	41	161	114	601	78	38	19	1.88
8	2.60	14	17	5.20	31	140	120	518	76	37	19	1.88
9	2.32	7.20	17	4.80	24	122	127	401	74	36	19	1.88
10	2.04	2.32	20	4.80	20	142	132	323	71	31	19	1.88
11	2.04	2.88	40	4.40	28	167	125	275	71	31	19	2.02
12	1.76	1.76	64	4.80	33	240	124	219	71	27	15	2.02
13	1.48	1.08	97	5.20	30	288	152	193	74	25	13	2.02
14	1.20	0.96	84	4.40	30	282	182	193	71	25	10	2.02
15	1.08	0.72	71	1.76	50	238	173	176	69	25	9.10	2.02
16	1.20	0.96	58	1.20	96	293	165	165	76	25	8.10	2.02
17	1.20	1.76	58	0.60	97	362	147	152	93	26	7.10	1.32
18	1.20	0.84	55	0.48	86	377	138	135	116	25	7.10	0.76
19	1.76	0.84	51	0.48	65	335	117	127	127	24	7.10	0.62
20	1.76	1.08	44	0.60	58	268	102	116	137	24	7.10	0.48
21	2.04	0.96	38	0.36	87	221	87	114	112	24	[illegible]	0.27
22	2.04	0.96	37	0.12	195	188	75	112	93	25	[illegible]	0.08
23	3.16	0.96	36	0.00	246	174	64	112	83	24	[illegible]	0.08
24	4.00	1.08	33	0.00	248	174	60	105	65	24	[illegible]	0.08
25	4.00	2.32	25	0.00	199	219	78	105	60	23	[illegible]	0.04
26	3.44	4.40	22	0.00	158	246	161	102	57	22	[illegible]	0.04
27	3.44	5.60	20	3.16	132	219	238	96	57	22	[illegible]	0.04
28	3.44	5.60	20	10	124	192	377	92	56	21	[illegible]	0.04
29	4.00	5.60	18	26	161	169	518	87	52	21		0.00
30	3.44	8.00	18	35	209	169	576	84	48	21		0.00
31		24		24	219		570		47	22		0.00
Total	86	103	1,135	209	2,978	[illegible],536	[illegible],637	[illegible],667	2,428	[illegible]98	[illegible]33	38
Mean	2.85	3.31	38	6.74	96	218	182	289	78	29	12	1.23
Max.	5.20	24	97	35	248	377	576	742	137	46	21	3.06
Min.	1.08	0.00	17	0.00	20	122	60	84	47	21	3.10	0.00
Runoff - MCM.	7.434	8.899	98.064	18.058	257.[illegible]	564.88[illegible]	487.037	748.829	209.77[illegible]	77.587	28.771	3.283

WATER YEAR 1965 : Max. 742 . Min. 0.00 Mean 79 Annual Runoff 2,509.923 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 4	12.00	275.91	753				

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Staff gage.

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

Bench Mark: B.M. – H.S./R.I.D. No. 4
Location: Near the pond which belongs to Mr. Bunsri Thongsuk Sakul.
Elevation: + 321.928 m. (M.S.L.)

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

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

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1954 – 60.
Rated by Float: –
Rated by Current Meter: 1954 – 60.

Stability of Channel Regimes: Rather unstable. No shifting adjustment is made for flow computation for the year without actual rating.

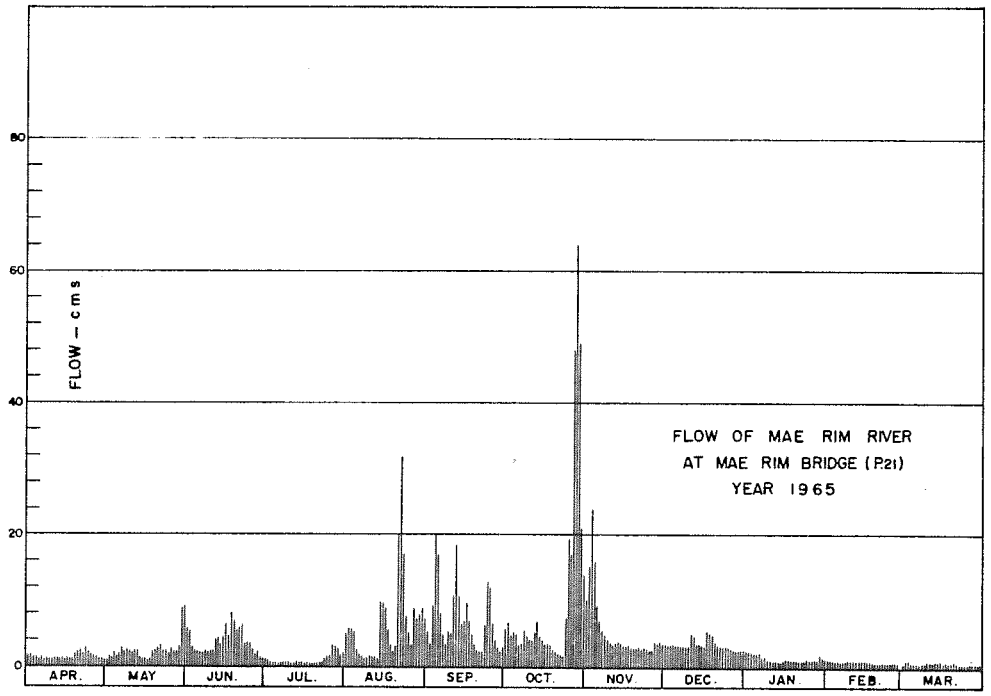
Overbank Flow Conditions: Overbank flow was observed during the period from October 27 – 29, 1965, but the flow is not included due to inadequate field data.

General Description: Records are classified as fair. Stage discharge relationship used is defined by discharge measurements made during the period 1955 – 59. No State diversions above station, except those built by people, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	320.42	320.30	320.80	320.38	320.75	320.77	320.70	321.07	320.63	320.50	320.35	320.22
2	.43	.42	.76	.33	.81	.63	.86	.28	.62	.50	.33	.32
3	.39	.38	.57	.30	.81	321.02	.73	.59	.62	.50	.32	.33
4	.37	.48	.51	.28	.76	.49	.76	.33	.61	.49	.32	.22
5	.36	.39	.50	.25	.56	.37	.74	.02	.61	.47	.32	.21
6	320.34	320.46	320.49	320.24	320.48	320.95	320.62	320.87	320.60	320.46	320.30	[illegible]
7	.33	.55	.48	.25	.44	.74	.63	.78	.60	.39	.29	.18
8	.35	.50	.50	.27	.40	.61	.83	.73	.60	.43	.31	.20
9	.34	.52	.49	.28	.40	.77	.72	.68	.59	.36	.34	.22
10	.33	.50	.49	.28	.44	.76	.69	.64	.59	.34	.35	.24
11	320.35	320.47	320.51	320.26	320.44	321.12	320.67	320.63	320.74	320.34	320.32	320.23
12	.34	.51	.67	.27	.43	.43	.76	.64	.73	.32	.28	.24
13	.35	.50	.68	.31	.40	.11	.87	.65	.63	.32	.30	.29
14	.37	.40	.62	.29	321.08	320.84	.71	.63	.62	.30	.31	.23
15	.35	.36	.71	.29	.05	.87	.67	.60	.61	.34	.31	.28
16	320.36	320.35	320.86	320.24	321.00	321.05	320.61	320.60	320.61	320.38	320.30	320.20
17	.36	.32	.69	.24	320.79	320.89	.64	.62	.78	.37	.29	.24
18	.35	.36	.95	.24	.62	.73	.60	.56	.76	.35	.26	.22
19	.44	.48	.89	.24	.51	.61	.55	.56	.74	.34	.25	.22
20	.48	.50	.78	.31	.59	.55	.49	.55	.64	.36	.26	.26
21	320.52	320.55	320.80	320.23	321.48	320.51	320.48	320.56	320.61	320.34	320.26	320.20
22	.46	.60	.86	.24	.80	.51	.46	.55	.59	.30	.25	.18
23	.57	.50	.61	.26	.39	.53	.44	.57	.58	.34	.24	.17
24	.47	.50	.65	.40	320.94	321.23	.56	.56	.58	.35	.26	.16
25	.44	.47	.65	.43	.77	.17	321.45	.53	.58	.33	.27	.19
26	320.42	320.54	320.55	320.43	320.62	320.84	321.36	320.54	320.56	320.33	320.28	320.19
27	.41	.48	.44	.60	321.00	.67	322.20	.65	.55	.33	.28	.18
28	.35	.49	.50	.60	320.91	.56	.39	.64	.54	.34	.27	.18
29	.37	.58	.42	.56	.94	.51	.21	.65	.54	.46		.18
30	.35	.99	.39	.46	321.00	.57	321.52	.63	.52	.41		.19
31		321.01		.50	320.91		.25		.52	.39		.18
Mean	320.39	320.49	320.62	320.33	320.79	320.84	320.90	320.73	320.61	320.38	320.29	320.21
Max.	320.57	321.01	320.95	320.60	321.80	321.49	322.39	321.59	320.78	320.50	320.35	320.33
Min.	320.33	320.30	320.39	320.23	320.40	320.51	320.44	320.53	320.52	320.30	320.24	320.16

WATER YEAR 1965 : Max. 322.39 m. Min. 320.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.58	0.80	5.80	1.28	5.10	5.38	5.66	10	3.56	2.30	1.10	0.48
2	1.67	1.58	5.24	0.98	5.95	3.56	6.70	15	3.44	2.30	0.98	0.92
3	1.34	1.28	2.93	0.80	5.95	9.28	4.82	24	3.44	2.30	0.92	0.98
4	1.22	2.12	2.39	0.72	5.24	20	5.24	16	3.32	2.21	0.92	0.48
5	1.16	1.34	2.30	0.60	2.84	17	4.96	9.28	3.32	2.03	0.92	0.44
6	1.34	1.85	2.21	0.56	2.12	8.10	3.44	6.85	3.20	2.21	0.80	0.40
7	0.98	2.75	2.12	0.60	1.76	4.96	3.56	5.52	3.20	1.34	0.76	0.34
8	1.10	2.30	2.30	0.68	1.40	3.32	6.25	4.82	3.20	1.67	0.86	0.40
9	1.04	2.48	2.21	0.72	1.40	5.38	4.68	4.10	3.11	1.16	1.04	0.48
10	0.98	2.30	2.21	0.72	1.76	5.24	4.28	3.68	3.11	1.04	1.10	0.56
11	1.10	2.03	2.39	0.64	1.70	11	4.04	3.56	4.96	1.04	0.92	0.52
12	1.04	2.39	4.04	0.63	1.67	19	5.24	3.68	4.82	0.92	0.72	0.56
13	1.10	2.30	4.16	0.86	1.40	11	6.85	3.80	3.56	0.92	0.80	0.76
14	1.22	1.40	3.44	0.76	10	6.40	4.54	3.56	3.44	0.80	0.86	0.52
15	1.10	1.16	4.54	0.76	9.85	6.85	4.04	3.20	3.32	1.04	0.86	0.72
16	1.16	1.10	6.70	0.56	8.90	9.85	3.32	3.20	3.22	1.28	0.80	0.40
17	1.16	0.92	4.28	0.56	5.66	7.15	3.68	3.44	5.52	1.22	0.76	0.56
18	1.10	1.16	8.10	0.56	3.44	4.82	3.20	2.84	5.24	1.10	0.64	0.48
19	1.76	2.12	7.15	0.56	2.39	3.32	2.75	2.84	4.96	1.04	0.60	0.48
20	2.12	2.30	5.52	0.86	3.11	2.75	2.21	2.75	3.68	1.16	0.64	0.64
21	2.48	2.75	5.80	0.52	20	2.39	2.12	2.84	3.32	1.04	0.64	0.40
22	1.94	3.20	6.70	0.56	32	2.39	1.94	2.75	3.11	0.80	0.64	0.34
23	2.93	2.30	3.32	0.64	17	2.57	1.76	2.93	3.02	1.04	0.56	0.31
24	2.03	2.30	3.80	1.40	7.94	13	2.84	2.84	3.02	1.10	0.64	0.28
25	1.76	2.03	3.80	1.67	5.38	12	20	2.57	3.02	0.98	0.68	0.37
26	1.58	2.66	2.75	1.67	3.44	6.40	17	2.66	2.84	0.98	0.72	0.37
27	1.49	2.12	1.76	3.20	8.90	4.04	48	3.80	2.75	0.98	0.72	0.34
28	1.10	2.21	2.30	3.20	7.46	2.84	64	3.68	2.65	1.04	0.68	0.34
29	1.22	3.02	1.58	2.84	7.94	2.39	49	3.80	2.66	1.94		0.34
30	1.10	8.74	1.34	1.94	8.90	2.93	21	3.56	2.48	1.49		0.37
31		9.09		2.30	7.46		14		2.48	1.34		0.34
Total	42	76	113	34	208	215	331	163	107	42	22	15
Mean	1.40	2.45	3.77	1.10	6.71	7.17	11	5.43	3.45	1.35	0.78	0.48
Max.	2.93	9.09	8.10	3.20	32	20	64	24	5.52	2.30	1.10	0.98
Min.	0.98	0.80	1.34	0.52	1.40	2.39	1.76	2.57	2.48	0.80	0.56	0.28
Runoff - 百萬	3.629	6.566	9.763	2.938	17.971	18.576	28.598	14.083	9.245	3.629	1.901	1.296

WATER YEAR 1965 : Max. 64 Min. 0.28 Mean 3.75 Annual Runoff 118.194 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	12.00	322.43	68				

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Staff gage.

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

Bench Mark: B.M.–H.S./R.I.D.
Location: About 9 meters from Mae Sa bridge on left bank.
Elevation: + 321.845 m. (M.S.L.)

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

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

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1954 – 60.
Rated by Float: –
Rated by Current Meter: 1954 – 60.

Stability of Channel Regimes: Rather unstable. No shifting adjustment is made for flow computation for years of no rating.

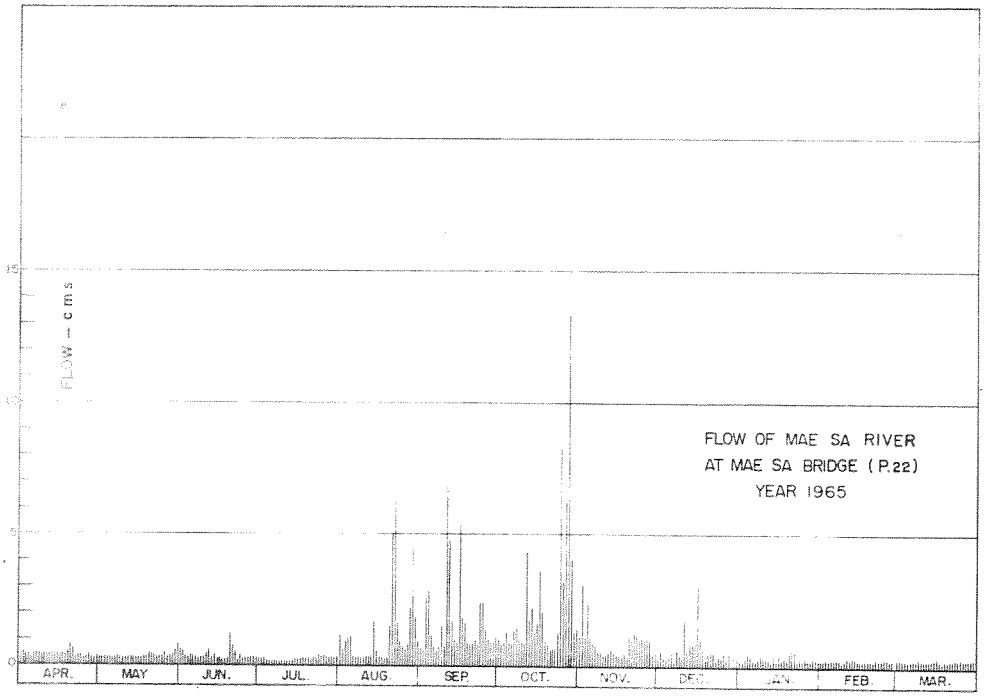
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage–discharge relationship used is defined by discharge measurements made during 1959 – 60. No State diversions above station, but those built by local people, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	317.72	317.68	317.78	317.66	317.91	317.80	317.88	317.90	317.65	317.64	317.62	317.65
2	.73	.68	.76	.67	.79	.77	.85	318.14	.77	.62	.64	.65
3	.72	.68	.69	.67	.86	318.10	.85	317.90	.68	.68	.65	.63
4	.71	.68	.68	.64	.89	.12	.93	318.07	.66	.74	.64	.62
5	.66	.68	.72	.63	.90	317.91	.85	317.89	.70	.65	.65	.61
6	317.73	317.67	317.71	317.62	317.71	317.81	317.84	317.84	317.75	317.62	317.65	317.63
7	.73	.68	.68	.62	.69	.78	.94	.83	.61	.63	.65	.63
8	.73	.71	.67	.62	.69	.81	.96	.76	.78	.65	.65	.63
9	.72	.68	.68	.62	.69	.97	.88	.76	.73	.70	.60	.66
10	.72	.68	.68	.62	.69	.82	.85	.72	.68	.69	.63	.64
11	317.72	317.68	317.74	317.62	317.70	318.40	317.85	317.71	318.01	317.69	317.66	317.63
12	.72	.68	.78	.62	.70	.27	318.24	.76	317.75	.65	.65	.62
13	.72	.68	.67	.61	.71	.00	.01	.78	.85	.62	.67	.62
14	.72	.67	.73	.62	318.00	317.87	.06	.76	.84	.71	.66	.63
15	.72	.67	.66	.65	317.77	.85	317.93	.72	.86	.63	.64	.65
16	317.71	317.67	317.68	317.65	317.69	318.31	317.99	317.72	318.15	317.71	317.63	317.65
17	.72	.68	.64	.66	.69	.02	318.19	.70	317.89	.64	.61	.61
18	.72	.70	.64	.67	.66	317.99	.04	.74	.78	.66	.62	.58
19	.74	.70	.66	.66	.69	.86	317.87	.70	.66	.65	.61	.61
20	.83	.73	.92	.67	.98	.83	.84	.90	.74	.74	.62	.60
21	317.78	317.73	317.83	317.65	318.29	317.85	317.79	317.89	317.75	317.80	317.61	317.64
22	.67	.72	.75	.67	.37	.87	.80	.93	.75	.77	.67	.61
23	.70	.69	.63	.67	.00	.84	.80	.90	.63	.63	.64	.64
24	.71	.70	.72	.73	317.86	318.08	.93	.88	.70	.65	.63	.61
25	.67	.70	.65	.70	.81	.05	318.47	.90	.68	.65	.65	.65
26	317.69	317.74	317.67	317.71	317.78	317.95	318.15	317.88	317.74	317.67	317.65	317.63
27	.72	.69	.67	.69	.84	.88	.36	.89	.65	.65	.62	.63
28	.67	.71	.68	.68	318.06	.86	.72	.87	.74	.69	.64	.63
29	.67	.73	.68	.69	.25	.85	.22	.73	.66	.67		.63
30	.69	.77	.67	.69	.02	.89	317.93	.74	.70	.65		.64
31		.83		.72	317.86				.65	.64		.65
Mean	317.71	317.69	317.70	317.65	317.85	317.94	318.00	317.83	317.74	317.67	317.63	317.62
Max.	317.83	317.83	317.92	317.73	318.37	318.40	318.72	318.14	318.15	317.80	317.67	317.66
Min.	317.66	317.67	317.63	317.61	317.66	317.77	317.79	317.70	317.61	317.62	317.60	317.58

WATER YEAR 1965 : Max. 318.72 m. Min. 317.58 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.46	0.36	0.64	0.32	1.20	0.70	1.05	1.15	0.30	0.28	0.24	0.30
2	0.49	0.36	0.58	0.34	0.67	0.61	0.90	3.08	0.61	0.24	0.28	0.30
3	0.46	0.36	0.38	0.34	0.95	2.60	0.90	1.15	0.36	0.36	0.30	0.26
4	0.43	0.36	0.36	0.28	1.10	2.84	1.30	2.33	0.32	0.52	0.28	0.24
5	0.32	0.36	0.46	0.26	1.15	1.20	0.90	1.10	0.46	0.30	0.30	0.22
6	0.49	0.34	0.43	0.24	0.43	0.74	0.86	0.86	0.55	0.24	0.30	0.26
7	0.49	0.36	0.36	0.24	0.38	0.64	1.35	0.82	0.22	0.26	0.30	0.26
8	0.49	0.43	0.34	0.24	0.38	0.74	1.46	0.58	0.64	0.30	0.30	0.26
9	0.46	0.36	0.36	0.24	0.38	1.52	1.05	0.58	0.49	0.46	0.20	0.32
10	0.46	0.36	0.36	0.24	0.38	0.78	0.90	0.46	0.36	0.38	0.26	0.28
11	0.46	0.36	0.52	0.24	0.40	6.90	0.90	0.43	1.79	0.38	0.32	0.26
12	0.46	0.36	0.64	0.24	0.40	4.78	4.36	0.58	0.55	0.30	0.30	0.24
13	0.46	0.36	0.34	0.22	0.43	1.70	1.79	0.64	0.90	0.24	0.34	0.24
14	0.46	0.34	0.49	0.24	1.70	1.00	2.24	0.58	0.86	0.43	0.32	0.26
15	0.46	0.34	0.32	0.30	0.61	0.90	1.30	0.46	0.95	0.26	0.28	0.30
16	0.43	0.34	0.36	0.30	0.38	5.37	1.64	0.46	3.20	0.43	0.26	0.30
17	0.46	0.36	0.28	0.32	0.38	1.88	3.68	0.40	1.10	0.28	0.22	0.22
18	0.46	0.40	0.28	0.34	0.32	1.64	2.06	0.52	0.64	0.32	0.24	0.16
19	0.52	0.40	0.32	0.32	0.38	0.95	1.00	0.40	0.32	0.30	0.22	0.22
20	0.82	0.49	1.25	0.34	1.58	0.82	0.86	1.15	0.52	0.52	0.24	0.20
21	0.64	0.49	0.82	0.30	5.06	0.90	0.67	1.10	0.55	0.70	0.22	0.28
22	0.34	0.46	0.55	0.34	6.39	1.00	0.70	1.30	0.55	0.61	0.34	0.22
23	0.40	0.38	0.26	0.34	1.70	0.86	0.70	1.15	0.26	0.26	0.28	0.28
24	0.43	0.40	0.46	0.49	0.95	2.42	1.30	1.05	0.40	0.30	0.26	0.22
25	0.34	0.40	0.30	0.40	0.74	2.42	8.30	1.15	0.36	0.30	0.30	0.30
26	0.38	0.52	0.34	0.43	0.64	1.40	3.20	1.05	0.52	0.34	0.30	0.26
27	0.46	0.38	0.34	0.38	0.86	1.05	6.22	1.10	0.30	0.30	0.24	0.26
28	0.34	0.43	0.36	0.36	2.24	0.95	15	1.00	0.52	0.38	0.28	0.26
29	0.34	0.49	0.36	0.38	4.50	0.90	4.08	0.49	0.32	0.34		0.26
30	0.38	0.61	0.34	0.38	1.88	1.10	1.30	0.52	0.40	0.30		0.28
31		0.82		0.46	0.95		1.46		0.30	0.28		0.30
Total	14	13	13	9.76	39	51	73	27	20	11	7.72	8.02
Mean	0.47	0.43	0.43	0.32	1.26	1.70	2.35	0.90	0.64	0.35	0.27	0.26
Max.	0.82	0.82	1.25	0.49	6.39	6.90	15	3.08	3.20	0.70	0.34	0.32
Min.	0.32	0.34	0.26	0.22	0.32	0.61	0.67	0.40	0.22	0.24	0.20	0.16
Runoff - mcm.	1.210	1.123	1.123	0.843	3.370	4.406	6.307	2.333	1.728	0.950	0.667	0.693

WATER YEAR 1965 : Max. 15 Min. 0.16 Mean 0.78 Annual Runoff 24.710 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	06.00	318.84	21				

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Staff gage.

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

Bench Mark: B.M. - H.S./R.I.D. No. 8
Location: On the left bank at Mae Khan Bridge.
Elevation: + 291.767 m. (M.S.L.)

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

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

Period of Available Gage Records: 1955 to date.

Rating Operation:
Period of Rating: 1955 - 60.
Rated by Float: -
Rated by Current Meter: 1955 - 60.

Stability of Channel Regimes: Rather unstable. No shifting adjustment is made for flow computation for years without actual rating.

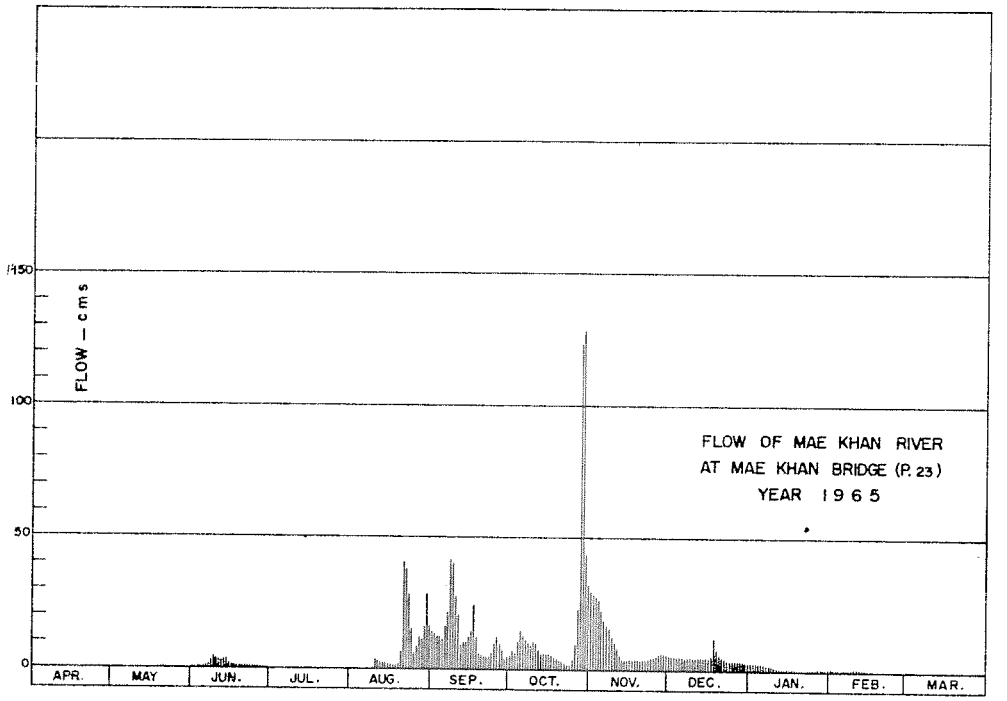
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made during 1957-60. No State diversions above station, but those built by local people, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	286.23	286.20	286.54	286.29	286.31	287.20	286.90	287.57	286.92	286.77	286.59	286.42
2	.23	.21	.55	.38	.30	.17	.96	.55	.90	.77	.51	.41
3	.22	.21	.60	.31	.31	.16	.94	.52	.88	.76	.47	.39
4	.23	.22	.59	.29	.33	.15	287.11	.51	.87	.75	.44	.37
5	.23	.23	.60	.28	.34	.13	.22	.41	.88	.74	.42	.35
6	286.22	286.23	286.61	286.28	286.36	287.27	287.16	287.32	286.87	286.73	286.43	286.34
7	.22	.21	.65	.27	.40	.40	.12	.28	.86	.69	.46	.33
8	.22	.20	.80	.26	.43	.79	.09	.23	.85	.69	.52	.33
9	.21	.22	.87	.26	.42	.77	.05	.16	.87	.66	.60	.32
10	.20	.23	.84	.24	.82	.52	.10	.10	.87	.62	.61	.32
11	286.20	286.24	286.80	286.23	286.77	287.37	287.08	287.00	286.87	286.60	286.62	286.31
12	.20	.24	.77	.22	.72	.04	286.99	286.91	.87	.57	.57	.30
13	.20	.22	.80	.21	.73	.10	.92	.82	.87	.55	.49	.29
14	.23	.22	.82	.20	.72	.20	.93	.81	.87	.54	.47	.29
15	.25	.24	.70	.19	.70	.16	.92	.81	.87	.52	.47	.28
16	286.26	286.27	286.66	286.19	286.69	287.22	286.92	286.82	286.86	286.51	286.46	286.28
17	.26	.30	.62	.19	.63	.46	.90	.80	.87	.49	.45	.27
18	.25	.36	.61	.18	.68	.16	.87	.81	287.14	.47	.45	.26
19	.26	.42	.60	.18	.70	286.92	.82	.82	286.98	.46	.45	.24
20	.27	.43	.61	.21	.97	.90	.80	.82	.92	.46	.44	.24
21	286.27	286.43	286.58	286.22	287.76	286.89	286.77	286.82	286.89	286.42	286.43	286.23
22	.31	.44	.56	.22	.73	.89	.71	.82	.87	.43	.42	.23
23	.30	.44	.54	.24	.50	.86	.69	.82	.84	.47	.41	.23
24	.29	.43	.49	.27	.24	.93	.65	.86	.82	.49	.41	.23
25	.28	.42	.47	.29	286.93	287.06	.82	.85	.81	.50	.40	.22
26	286.27	286.44	286.46	286.30	287.03	287.16	287.08	286.88	286.81	286.50	286.40	286.20
27	.26	.44	.45	.31	.16	.08	.43	.92	.81	.51	.42	.19
28	.25	.45	.43	.33	.12	286.98	288.83	.94	.80	.52	.41	.19
29	.24	.46	.42	.34	.28	.82	.88	.93	.79	.52		.19
30	.22	.48	.40	.33	.55	.85	287.82	.92	.78	.54		.18
31		.51		.32	.24		.60		.78	.57		.18
Mean	286.24	286.32	286.61	286.25	286.83	287.15	287.13	287.02	286.86	286.57	286.47	286.27
Max.	286.31	286.51	286.87	286.38	287.76	287.79	288.88	287.57	287.14	286.77	286.62	286.42
Min.	286.20	286.20	286.40	286.18	286.30	286.82	286.65	286.80	286.78	286.42	286.40	286.18

WATER YEAR 1965 : Max. 288.88 m. Min. 286.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.32	0.00	0.00	14	5.00	29	5.52	2.78	0.74	0.04
2	0.00	0.00	0.50	0.00	0.00	13	6.50	28	5.00	2.78	0.26	0.02
3	0.00	0.00	0.80	0.00	0.00	12	6.00	27	4.64	2.64	0.14	0.00
4	0.00	0.00	0.74	0.00	0.00	12	11	26	4.46	2.50	0.08	0.00
5	0.00	0.00	0.80	0.00	0.00	11	14	22	4.64	2.36	0.02	0.00
6	0.00	0.00	0.90	0.00	0.00	16	12	18	4.46	2.22	0.06	0.00
7	0.00	0.00	1.30	0.00	0.00	21	11	16	4.28	1.70	0.12	0.00
8	0.00	0.00	3.20	0.00	0.06	41	10	15	4.10	1.70	0.32	0.00
9	0.00	0.00	4.46	0.00	0.04	40	8.95	12	4.46	1.40	0.80	0.00
10	0.00	0.00	3.92	0.00	3.56	27	10	10	4.46	1.00	0.90	0.00
11	0.00	0.00	3.20	0.00	2.78	20	9.82	7.50	4.46	0.80	1.00	0.00
12	0.00	0.00	2.78	0.00	2.08	8.66	7.25	5.25	4.46	0.62	0.62	0.00
13	0.00	0.00	3.20	0.00	2.22	10	5.50	3.56	4.46	0.50	0.18	0.00
14	0.00	0.00	3.56	0.00	2.08	10	5.75	3.38	4.46	0.44	0.14	0.00
15	0.00	0.00	1.80	0.00	1.80	12	5.50	3.38	4.46	0.32	0.14	0.00
16	0.00	0.00	1.40	0.00	1.70	14	5.50	3.56	4.28	0.26	0.12	0.00
17	0.00	0.00	1.00	0.00	1.10	24	5.00	3.20	4.46	0.18	0.10	0.00
18	0.00	0.00	0.90	0.00	1.60	12	4.46	3.38	12	0.14	0.10	0.00
19	0.00	0.04	0.80	0.00	1.80	5.50	3.56	3.56	7.00	0.12	0.10	0.00
20	0.00	0.06	0.90	0.00	6.75	5.00	3.20	3.56	5.50	0.12	0.08	0.00
21	0.00	0.06	0.68	0.00	40	4.82	2.78	3.56	4.82	0.04	0.06	0.00
22	0.00	0.08	0.56	0.00	38	4.82	1.94	3.56	4.46	0.06	0.04	0.00
23	0.00	0.08	0.44	0.00	28	4.28	1.70	3.56	3.92	0.14	0.02	0.00
24	0.00	0.06	0.18	0.00	15	5.75	1.30	4.28	3.56	0.18	0.02	0.00
25	0.00	0.04	0.14	0.00	5.75	9.24	3.36	4.28	3.38	0.20	0.00	0.00
26	0.00	0.08	0.12	0.00	8.95	12	9.82	4.64	3.38	0.20	0.00	0.00
27	0.00	0.08	0.10	0.00	12	9.82	22	5.50	3.38	0.26	0.04	0.00
28	0.00	0.10	0.06	0.00	11	7.00	123	6.00	3.20	0.32	0.02	0.00
29	0.00	0.12	0.04	0.00	16	3.56	128	5.75	3.06	0.32		0.00
30	0.00	0.16	0.00	0.00	28	4.10	43	5.50	2.92	0.44		0.00
31		0.26		0.00	15		31		2.92	0.62		0.00
Total	0.00	1.22	38	0.00	245	393	518	290	140	27	6.22	0.06
Mean	0.00	0.04	1.27	0.00	7.90	13	17	9.67	4.52	0.87	0.22	0.00
Max.	0.00	0.26	4.46	0.00	40	41	128	29	5.52	2.78	1.00	0.04
Min.	0.00	0.00	0.00	0.00	0.00	3.56	1.30	3.20	2.92	0.04	0.00	0.00
Runoff - mcm.	0.000	0.105	3.283	0.000	21.168	33.955	44.755	25.056	12.096	2.333	0.537	0.000

WATER YEAR 1965 : Max. 128 Min. 0.00 Mean 4.54 Annual Runoff 143.251 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	18.00	289.22	168				

WATER YEAR 1965
PING RIVER BASIN

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

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

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

Type of Gage: Staff gage.

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

Bench Mark:
Location:
Elevation:

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent the mean daily value.

Period of Available Gage Records: 1955 to date.

Rating Operation:
Period of Rating: 1955 - 60.
Rated by Float: -
Rated by Current Meter: 1955 - 60.

Stability of Channel Regimes: Rather unstable. No shifting adjustment is made for flow computation for year without actual rating.

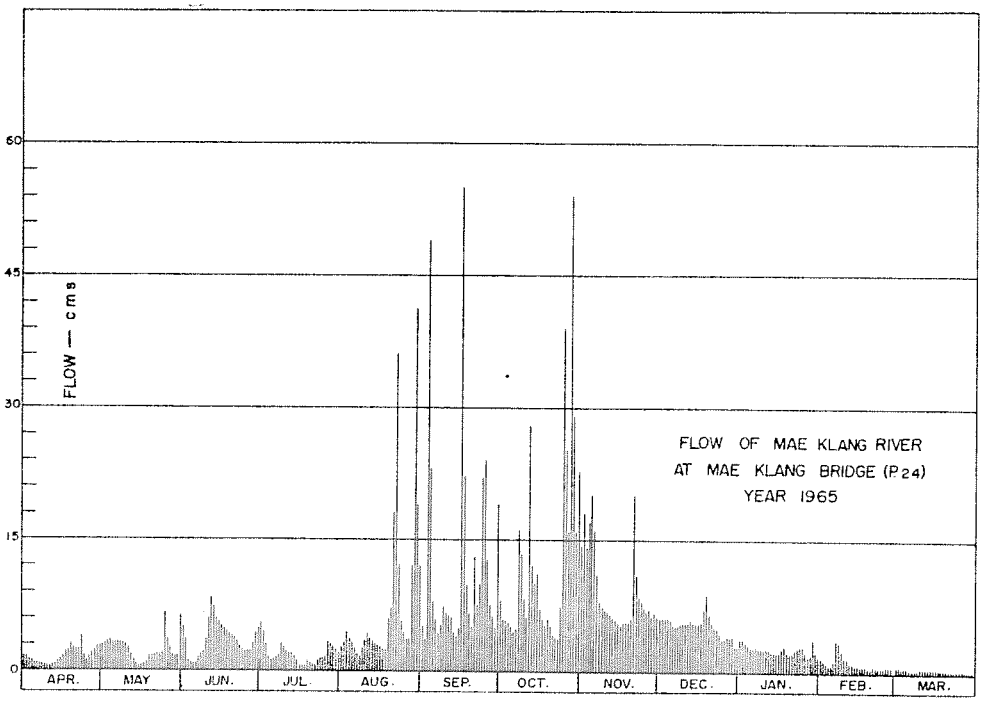
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair, Stage-discharge relation ship used is defined by discharge measurements made during 1955 - 60. No diversions above this station, except those built by local farmers. No adjustment for virgin flow.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.58	0.68	0.79	0.80	0.66	0.78	0.90	1.10	0.82	0.72	0.59	0.51
2	.58	.69	.71	.76	.70	.71	.81	.20	.82	.71	.57	.51
3	.57	.70	.56	.68	.75	1.84	.81	.10	.82	.70	.54	.50
4	.56	.71	.53	.58	.72	.33	.80	.17	.83	.68	.53	.50
5	.53	.70	.53	.56	.68	0.93	.77	.24	.81	.66	.53	.50
6	0.53	0.70	0.56	0.56	0.64	0.82	0.74	1.14	0.79	0.66	0.55	0.49
7	.53	.70	.59	.58	.61	.74	.78	0.99	.79	.67	.56	.48
8	.52	.70	.61	.60	.59	.79	1.14	.90	.79	.65	.71	.48
9	.52	.69	.63	.69	.67	.87	.05	.88	.80	.65	.70	.48
10	.51	.68	.71	.65	.71	.84	0.94	.86	.80	.65	.58	.50
11	0.50	0.65	0.82	0.64	0.74	0.84	0.82	0.85	0.80	0.65	0.58	0.50
12	.51	.61	.92	.63	.72	.83	1.44	.84	.80	.64	.55	.50
13	.53	.56	.88	.62	.70	.75	.04	.83	.81	.63	.54	.50
14	.54	.53	.83	.60	.69	.72	0.96	.81	.80	.62	.53	.50
15	.56	.51	.81	.55	.69	.77	1.00	.80	.80	.62	.62	.50
16	0.59	0.53	0.79	0.52	0.66	1.96	0.86	0.79	0.80	0.62	0.51	0.50
17	.63	.55	.78	.51	.65	.24	.81	.79	.80	.65	.52	.49
18	.65	.57	.75	.52	.64	0.96	.79	.80	1.66	.67	.51	.48
19	.68	.59	.74	.52	.82	.85	.82	.81	0.89	.63	.50	.48
20	.66	.60	.73	.56	.87	.78	.79	.82	.84	.63	.50	.48
21	0.65	0.60	0.72	0.54	1.30	1.07	0.75	1.24	0.80	0.63	0.51	0.47
22	.64	.60	.71	.53	.61	0.88	.72	1.00	.78	.65	.50	.47
23	.73	.61	.66	.52	.03	.97	.72	0.92	.77	.66	.50	.47
24	.60	.61	.64	.57	0.80	1.30	.87	.90	.74	.67	.50	.47
25	.56	.91	.62	.58	.75	.34	1.66	.87	.72	.67	.50	.47
26	0.58	0.72	0.64	0.58	0.71	0.96	1.36	0.86	0.72	0.63	0.51	0.47
27	.61	.66	.64	.70	.71	.88	.15	.89	.73	.60	.51	.46
28	.65	.60	.68	.69	1.02	.83	.94	.83	.72	.58	.51	.46
29	.66	.59	.75	.67	.70	.78	.45	.85	.70	.72		.45
30	.67	.58	.78	.64	.23	1.21	.13	.83	.67	.63		.45
31		.84		.62	.03		.32		.68	.60		.45
Mean	0.58	0.64	0.70	0.60	0.83	0.98	1.00	0.93	0.80	0.65	0.54	0.48
Max.	0.73	0.91	0.92	0.80	1.70	1.96	1.94	1.24	1.66	0.72	0.71	0.51
Min.	0.50	0.51	0.53	0.51	0.59	0.71	0.72	0.79	0.67	0.58	0.50	0.45

WATER YEAR 1965 : Max. 1.96 m. Min. 0.45 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.54	3.08	5.29	5.50	2.76	5.08	8.00	14	6.00	3.82	1.67	0.63
2	1.54	3.24	3.61	4.66	3.40	3.61	5.75	18	6.00	3.61	1.41	0.63
3	1.41	3.40	1.28	3.08	4.45	49	5.75	14	6.00	3.40	1.02	0.50
4	1.28	3.61	0.89	1.54	3.82	23	5.50	17	6.25	3.08	0.89	0.50
5	0.89	3.40	0.89	1.28	3.08	8.96	4.87	20	5.75	2.76	0.89	0.50
6	0.89	3.40	1.28	1.28	2.44	6.00	4.24	16	5.29	2.76	1.15	0.40
7	0.89	3.40	1.67	1.54	1.96	4.24	5.08	11	5.29	2.92	1.28	0.30
8	0.76	3.40	1.96	1.80	1.67	5.29	16	8.00	5.29	2.60	3.61	0.30
9	0.76	3.24	2.28	3.24	2.92	7.25	13	7.50	5.50	2.60	3.40	0.30
10	0.63	3.08	3.61	2.60	3.61	6.50	9.28	7.00	5.50	2.60	1.54	0.50
11	0.50	2.60	6.00	2.44	4.24	6.50	6.00	6.75	5.50	2.60	1.54	0.50
12	0.63	1.96	8.64	2.28	3.82	6.25	28	6.50	5.50	2.44	1.15	0.50
13	0.89	1.28	7.50	2.12	3.40	4.45	12	6.25	5.75	2.28	1.02	0.50
14	1.02	0.89	6.25	1.80	3.24	3.82	9.92	5.75	5.50	2.12	0.89	0.50
15	1.28	0.63	5.75	1.15	3.24	4.87	11	5.50	5.50	2.12	0.76	0.50
16	1.67	0.89	5.29	0.76	2.76	55	7.00	5.29	5.50	2.12	0.63	0.50
17	2.28	1.15	5.08	0.63	2.60	20	5.75	5.29	5.50	2.60	0.76	0.40
18	2.60	1.41	4.45	0.76	2.44	9.92	5.29	5.50	39	2.92	0.63	0.30
19	3.08	1.67	4.24	0.76	6.00	6.75	6.00	5.75	7.75	2.28	0.50	0.30
20	2.76	1.80	4.03	1.28	7.25	5.08	5.29	6.00	6.50	2.28	0.50	0.30
21	2.60	1.80	3.82	1.02	22	13	4.45	20	5.50	2.28	0.63	0.20
22	2.44	1.80	3.61	0.89	36	7.50	3.82	11	5.08	2.60	0.50	0.20
23	4.03	1.96	2.76	0.76	12	10	3.82	8.64	4.87	2.76	0.50	0.20
24	1.80	1.96	2.44	1.41	5.50	22	7.25	8.00	4.24	2.92	0.50	0.20
25	1.28	8.32	2.12	1.54	4.45	24	39	7.25	3.82	2.92	0.50	0.20
26	1.54	3.82	2.44	1.54	3.61	9.92	25	7.00	3.82	2.28	0.63	0.20
27	1.96	2.76	2.44	3.40	3.61	7.50	16	7.75	4.03	1.80	0.63	0.10
28	2.60	1.80	3.08	3.24	12	6.25	54	6.25	3.82	1.54	0.63	0.10
29	2.76	1.67	4.45	2.92	41	5.08	29	6.75	3.40	3.82		0.00
30	2.92	1.54	5.08	2.44	19	19	16	6.25	2.92	2.28		0.00
31		6.50		2.12	12		23		3.08	1.80		0.00
Total	51	81	112	62	240	366	395	280	193	81	30	10
Mean	1.71	2.63	3.74	1.99	7.75	12	13	9.33	6.24	2.61	1.06	0.33
Max.	4.03	8.32	8.64	5.50	41	55	54	20	39	3.82	3.61	0.63
Min.	0.50	0.63	0.89	0.63	1.67	3.61	3.82	5.29	2.92	1.54	0.50	0.00
Runoff - mcm.	4.406	6.998	9.677	5.357	20.736	31.622	34.128	24.192	16.675	6.998	2.592	0.864

WATER YEAR 1965 : Max. 55 Min. 0.00 Mean 5.21 Annual Runoff 164.246 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	06.00	2.20	71	Oct. 25	18.00	2.16	68

WATER YEAR 1965
PING RIVER BASIN

Mae Kuang River at Ban Pha Tak, Chiang Mai (P. 25)

Location: Lat. 18° – 55' – 04" N., Long 99° – 07' – 50" E., on the left bank just upstream from Pha Tak weir of The Mae Kuang Irrigation Project, Amphoe Doi Saket, Chiang Mai.

Drainage Area: 572 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 336.00 m. (M.S.L.)

Bench Mark:
- Location: At the pier of Mae Kuang regulator.
- Elevation: 339.00 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent the mean daily value.

Period of Available Gage Records: 1964 to date.

Rating Operation:
- Period of Rating: 1964 – 1967.
- Rated by Float: –
- Rated by Current Meter: 1964 – 1967.

Stability of Channel Regimes: Using weir crest as a control section.

Overbank Flow Conditions: No overbank flow.

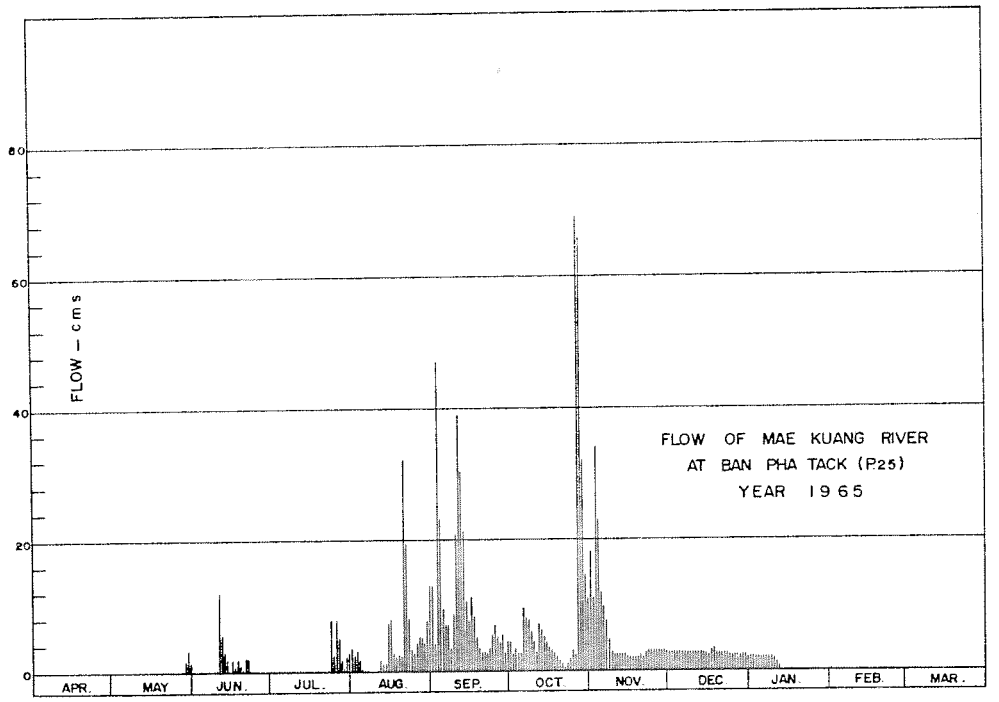
General Description: Records are classified as fair. Discharge measurements were made on The Pha Tak weir crest. Upstream diversions for irrigation of about 9,600 hectares. The presented flow record included also the diversion.

Remark: No gage height record for Apr. 9 – May 19, 1965.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	336.28		336.99	336.75	337.10	337.21	337.11	337.24	337.08	337.06	336.74	336.47
2	.27		.88	.68	.08	.11	.08	.19	.08	.06	.62	.46
3	.27		.83	.66	.09	.40	.10	.34	.08	.06	.61	.44
4	.27		.78	.59	.05	.24	.08	.27	.08	.06	.61	.46
5	.28		.72	.56	.00	.18	.08	.21	.08	.06	.58	.50
6	336.26		336.70	336.52	336.90	337.14	337.17	337.18	337.08	337.06	336.58	336.52
7	.53		.69	.60	.84	.14	.15	.15	.08	.06	.58	.53
8	.58		.88	.61	.79	.10	.15	.12	.08	.06	.60	.47
9			337.04	.65	.74	.17	.13	.09	.08	.06	.59	.44
10			.05	.63	.70	.27	.11	.07	.08	.05	.59	.43
11			337.20	336.62	336.95	337.38	337.08	337.07	337.08	337.04	336.59	336.46
12			.13	.61	337.04	.31	.14	.07	.08	.02	.58	.48
13			.09	.64	.02	.25	.13	.07	.08	336.97	.57	.46
14			.06	.61	.03	.19	.12	.07	.08	.97	.57	.46
15			336.99	.59	.14	.15	.11	.06	.07	.84	.53	.45
16			337.05	336.57	337.15	337.19	337.10	337.06	337.07	336.70	336.51	336.45
17			.02	.59	.09	.15	.09	.06	.09	.68	.50	.46
18			.05	.59	.06	.12	.08	.06	.10	.65	.48	.46
19			.03	.60	.07	.10	.06	.06	.08	.65	.52	.45
20		336.63	336.98	.56	.06	.08	.04	.07	.08	.65	.52	.45
21		336.73	337.06	336.55	337.33	337.08	337.03	337.06	337.08	336.65	336.51	336.45
22		.67	.06	.54	.24	.08	.01	.08	.08	.65	.51	.46
23		.72	336.99	.62	.16	.10	.02	.09	.08	.65	.49	.45
24		.74	.86	337.15	.10	.12	.06	.09	.07	.64	.43	.43
25		.91	.82	.07	.07	.14	.09	.09	.07	.67	.47	.41
26		336.97	336.77	337.15	337.11	337.12	337.07	337.09	337.07	336.71	336.48	336.42
27		.69	.76	.13	.12	.11	.47	.09	.07	.71	.49	.43
28		.69	.75	.06	.12	.10	.46	.09	.07	.69	.49	.41
29		337.05	.72	.01	.11	.08	.32	.09	.07	.78		.39
30		.10	.69	.06	.15	.11	.22	.08	.07	.88		.41
31		.04		.08	.21		.19		.06	.89		.38
Mean			336.92	336.73	337.05	337.16	337.13	337.11	337.07	336.86	336.54	336.44
Max.			337.20	337.15	337.33	337.40	337.47	337.34	337.10	337.06	336.74	336.53
Min.			336.69	336.52	336.70	337.08	337.01	337.06	337.06	336.64	336.43	336.38

WATER YEAR 1965 : Max. 377.47 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00		0.16	0.00	3.40	13	4.28	18	2.76	2.12	0.00	0.00
2	0.00		0.00	0.00	2.76	4.28	2.76	11	2.76	2.12	0.00	0.00
3	0.00		0.00	0.00	3.08	47	3.40	34	2.76	2.12	0.00	0.00
4	0.00		0.00	0.00	1.80	18	2.76	22	2.76	2.12	0.00	0.00
5	0.00		0.00	0.00	0.20	10	2.76	13	2.76	2.12	0.00	0.00
6	0.00		0.00	0.00	0.00	6.92	9.56	10	2.76	2.12	0.00	0.00
7	0.00		0.00	0.00	0.00	6.92	7.80	7.80	2.76	2.12	0.00	0.00
8	0.00		0.00	0.00	0.00	3.40	7.80	5.16	2.76	2.12	0.00	0.00
9			1.48	0.00	0.00	9.56	6.04	3.08	2.76	2.12	0.00	0.00
10			1.80	0.00	0.00	22	4.28	2.44	2.76	1.80	0.00	0.00
11			12	0.00	0.00	39	2.76	2.44	2.76	1.48	0.00	0.00
12			6.04	0.00	1.48	28	6.92	2.44	2.76	0.84	0.00	0.00
13			3.08	0.00	0.84	19	6.04	2.44	2.76	0.08	0.00	0.00
14			2.12	0.00	1.16	11	5.16	2.44	2.76	0.08	0.00	0.00
15			0.16	0.00	6.92	7.80	4.28	2.12	2.44	0.00	0.00	0.00
16			1.80	0.00	7.80	11	3.40	2.12	2.44	0.00	0.00	0.00
17			0.84	0.00	3.08	7.80	3.08	2.12	3.08	0.00	0.00	0.00
18			1.80	0.00	2.12	5.16	2.76	2.12	3.40	0.00	0.00	0.00
19			1.16	0.00	2.44	3.40	2.12	2.12	2.76	0.00	0.00	0.00
20		0.00	0.12	0.00	2.12	2.76	1.48	2.44	2.76	0.00	0.00	0.00
21		0.00	2.12	0.00	32	2.76	1.16	2.12	2.76	0.00	0.00	0.00
22		0.00	2.12	0.00	18	2.76	0.52	2.76	2.76	0.00	0.00	0.00
23		0.00	0.16	0.00	8.68	3.40	0.84	3.08	2.76	0.00	0.00	0.00
24		0.00	0.00	7.80	3.40	5.16	2.12	3.08	2.44	0.00	0.00	0.00
25		0.00	0.00	2.44	2.44	6.92	3.08	3.08	2.44	0.00	0.00	0.00
26		0.08	0.00	7.80	4.28	5.16	2.44	3.08	2.44	0.00	0.00	0.00
27		0.00	0.00	6.04	5.16	4.28	69	3.08	2.44	0.00	0.00	0.00
28		0.00	0.00	2.12	5.16	3.40	66	3.08	2.44	0.00	0.00	0.00
29		1.80	0.00	0.52	4.28	2.76	30	3.08	2.44	0.00		0.00
30		3.40	0.00	2.12	7.80	4.28	15	2.76	2.44	0.00		0.00
31		1.48		2.76			11		2.12	0.00		0.00
Total			37	32	143	317	291	178	83	23	0.00	0.00
Mean			1.23	1.02	4.62	11	9.37	5.95	2.68	0.75	0.00	0.00
Max.			12	7.80	32	47	69	34	3.40	2.12	0.00	0.00
Min.			0.00	0.00	0.00	2.76	0.52	2.12	2.12	0.00	0.00	0.00
Runoff - mcm.			3.197	2.765	12.355	27.389	25.142	15.379	7.171	1.987	0.000	0.000

WATER YEAR 1965 : Max. 69 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 27	06.00	337.66	130				

WATER YEAR 1965
PING RIVER BASIN

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

Location: Lat. 18° – 54' – 23" N., Long 98° – 54' – 59" E., on the left bank near Wat Amphawan, Amphoe Mae Rim, Chiang Mai.

Drainage Area: 24 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water – stage recorder.

Zero Gage at Bottom at: 95.95 m. (A.D.)

Bench Mark: B.M. – H.S./R.I.D. No. 1
- Location: On the right bank near the gage site.
- Elevation: + 100.00 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. Hourly flow is used if necessary for mean daily flow computation.

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.

Overbank Flow Conditions: No overbank flow.

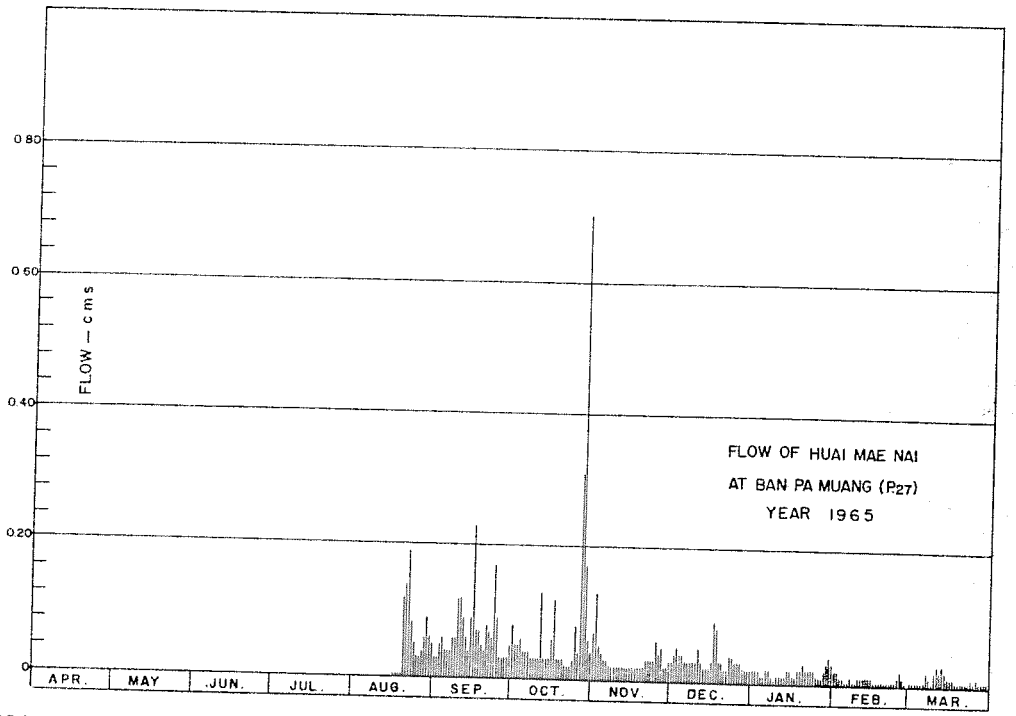
General Description: Records are classified as fair. Flow is regutated by a series of small diversion dams built by local people. No adjustment is made for virgin flow.

Remark: Gage height began to record on Aug. 16, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						0.29	0.34	0.33	0.28	0.24	0.24	0.20
2						.29	.31	.38	.30	.24	.24	.19
3						.31	.31	.31	.31	.25	.23	.20
4						.32	.32	.30	.30	.23	.22	.19
5						.30	.30	.28	.30	.21	.20	.19
6						0.30	0.30	0.27	0.29	0.24	0.20	0.20
7						.30	.29	.24	.27	.24	.21	.24
8						.32	.28	.25	.29	.22	.20	.22
9						.32	.28	.25	.29	.20	.19	.19
10						.37	.28	.24	.28	.21	.22	.25
11						0.37	0.29	0.24	0.31	0.21	0.22	0.27
12						.35	.38	.24	.29	.22	.23	.26
13						.32	.29	.25	.26	.21	.21	.27
14						.30	.29	.26	.26	.25	.22	.25
15						.35	.29	.26	.26	.24	.22	.21
16					0.19	0.44	0.32	0.26	0.27	0.22	0.19	0.21
17					.19	.33	.37	.24	.35	.23	.19	.21
18					.19	.33	.29	.24	.34	.24	.18	.19
19					.19	.31	.29	.24	.29	.25	.19	.19
20					.37	.30	.28	.25	.28	.27	.19	.19
21					0.39	0.34	0.26	0.27	0.25	0.24	0.19	0.18
22					.42	.33	.26	.27	.25	.24	.18	.20
23					.34	.32	.26	.29	.30	.25	.18	.20
24					.31	.41	.29	.28	.30	.24	.19	.22
25					.29	.35	.34	.32	.27	.22	.23	.20
26					0.29	0.29	0.30	0.30	0.27	0.22	0.24	0.21
27					.30	.28	.48	.31	.27	.22	.23	.20
28					.32	.29	.61	.25	.24	.26	.20	.20
29					.35	.29	.41	.25	.25	.29		.18
30					.32	.31	.32	.27	.25	.30		.18
31					.31		.30		.25	.27		.18
Mean						0.32	0.32	0.27	0.28	0.24	0.21	0.21
Max.						0.44	0.61	0.38	0.35	0.30	0.24	0.27
Min.						0.28	0.26	0.24	0.24	0.20	0.18	0.18

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						0.03	0.08	0.07	0.03	0.02	0.02	0.00
2						0.03	0.05	0.13	0.04	0.02	0.02	0.00
3						0.05	0.05	0.05	0.05	0.02	0.01	0.00
4						0.06	0.06	0.04	0.04	0.01	0.01	0.00
5						0.04	0.04	0.03	0.04	0.01	0.00	0.00
6						0.04	0.04	0.03	0.03	0.02	0.00	0.00
7						0.04	0.04	0.02	0.03	0.02	0.01	0.02
8						0.06	0.03	0.02	0.03	0.01	0.00	0.01
9						0.06	0.03	0.02	0.03	0.00	0.00	0.00
10						0.12	0.03	0.02	0.03	0.01	0.01	0.02
11						0.12	0.03	0.02	0.05	0.01	0.01	0.03
12						0.09	0.13	0.02	0.03	0.01	0.01	0.02
13						0.06	0.03	0.02	0.02	0.01	0.01	0.03
14						0.04	0.03	0.02	0.02	0.02	0.01	0.02
15						0.09	0.03	0.02	0.02	0.02	0.01	0.01
16					0.00	0.23	0.06	0.02	0.03	0.01	0.00	0.01
17					0.00	0.07	0.12	0.02	0.09	0.01	0.00	0.01
18					0.00	0.07	0.03	0.02	0.08	0.02	0.00	0.00
19					0.00	0.05	0.03	0.02	0.03	0.02	0.00	0.00
20					0.12	0.04	0.03	0.02	0.03	0.03	0.00	0.00
21					0.14	0.08	0.02	0.03	0.02	0.02	0.00	0.00
22					0.19	0.07	0.02	0.03	0.02	0.02	0.00	0.00
23					0.08	0.06	0.02	0.03	0.04	0.02	0.00	0.00
24					0.05	0.17	0.03	0.03	0.04	0.02	0.00	0.01
25					0.03	0.09	0.08	0.06	0.03	0.01	0.01	0.00
26					0.03	0.03	0.04	0.04	0.03	0.01	0.02	0.01
27					0.04	0.03	0.31	0.05	0.03	0.01	0.01	0.00
28					0.06	0.03	0.70	0.02	0.02	0.02	0.00	0.00
29					0.09	0.03	0.17	0.02	0.02	0.03		0.00
30					0.06	0.05	0.06	0.03	0.02	0.04		0.00
31					0.05		0.04		0.02	0.03		0.00
Total						2.03	2.46	0.97	1.01	0.57	0.20	0.20
Mean						0.07	0.08	0.03	0.03	0.03	0.02	0.01
Max.						0.23	0.70	0.13	0.09	0.04	0.02	0.03
Min.						0.03	0.02	0.02	0.02	0.00	0.00	0.00
Runoff - mcm.						0.175	0.212	0.084	0.087	0.049	0.017	0.017

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
WANG RIVER BASIN

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

Location: Lat. 18° – 17' – 28" N., Long 99° – 30' – 14" E., on the left bank downstream of Rasadaphisek bridge, Amphoe Muang, Lampang.

Drainage Area: 3,497 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 228.412 m. (M.S.L.)

Bench Mark:
Location: BM. – R.I.D. 20796, 700 meters north of the Bucher Company.
Elevation: + 233.738 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent the mean daily value.

Period of Available Gage Records: 1901 to date.

Rating Operation:
Period of Rating: 1955 – 61.
Rated by Float: –
Rated by Current Meter: 1955 – 61.

Stability of Channel Regimes: Stable, shifting adjustment is not included in flow computation for the year without rating.

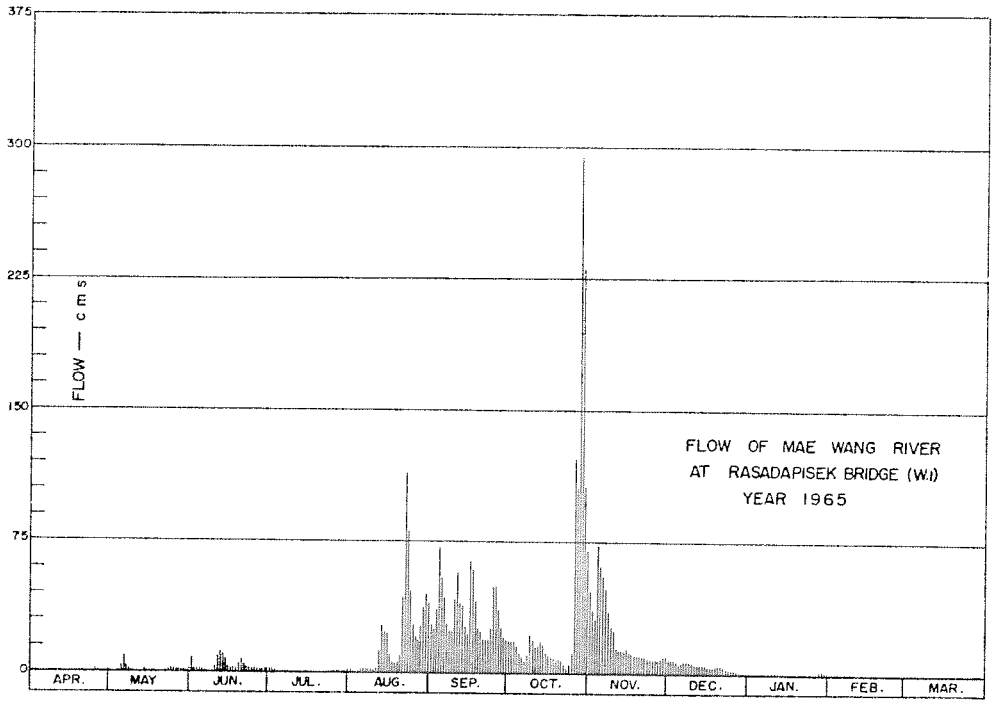
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Stage-discharge relationship is defined by discharge measurements made in 1961. Diversion for irrigation of about 12,320 hectares since 1949 at Mae Wang weir. The presented data is from actual flow at the gage site. No adjustment is made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	288.65	228.61	229.09	228.77	228.78	229.55	229.35	229.84	229.09	228.71	228.73	228.62
2	.66	.63	228.84	.80	.74	.49	.36	.68	.09	.71	.71	.62
3	.63	.71	.80	.72	.72	.68	.35	.60	.06	.70	.70	.61
4	.64	.66	.77	.70	.76	230.15	.28	230.18	.04	.69	.66	.64
5	.66	.91	.76	.69	.79	229.94	.20	.03	228.99	.69	.67	.62
6	228.64	229.11	228.71	228.65	228.80	229.78	229.10	229.96	229.00	228.69	228.66	228.63
7	.64	228.88	.72	.67	.81	.54	.04	.86	.04	.69	.69	.64
8	.65	.76	.70	.70	.78	.47	.16	.66	.04	.68	.67	.63
9	.66	.72	.70	.67	.76	.47	.43	.51	.03	.68	.68	.63
10	.66	.70	.85	.67	.78	.77	.38	.48	.00	.69	.67	.63
11	228.66	228.69	229.13	228.67	228.76	229.97	229.30	229.26	228.98	228.71	228.67	228.62
12	.64	.67	.22	.66	229.20	.84	.28	.25	.95	.71	.67	.62
13	.66	.64	.17	.66	.53	.71	.35	.24	.94	.70	.66	.62
14	.64	.77	.08	.65	.46	.51	.31	.26	.94	.70	.66	.62
15	.64	.69	228.89	.64	.46	.44	.22	.22	.93	.70	.65	.62
16	228.65	228.73	228.82	228.65	229.20	230.06	229.15	229.19	228.92	228.70	228.65	228.62
17	.65	.71	.85	.66	.00	.00	.13	.16	.91	.70	.64	.63
18	.65	.70	.84	.66	228.99	229.76	.09	.16	.91	.68	.64	.63
19	.64	.70	.96	.65	.99	.50	.06	.16	.93	.69	.64	.64
20	.71	.72	229.06	.65	229.11	.46	.06	.16	.94	.67	.64	.63
21	228.67	228.70	228.94	228.64	229.79	229.37	229.04	229.15	228.94	228.68	228.64	228.62
22	.66	.72	.87	.64	230.63	.39	228.95	.12	.92	.68	.63	.61
23	.66	.77	.84	.65	.28	.39	.84	.07	.86	.68	.63	.61
24	.63	.84	.83	.71	229.84	.49	.94	.08	.83	.68	.63	.61
25	.75	.80	.84	.72	.59	.87	229.17	.07	.82	.67	.63	.61
26	228.68	228.76	228.80	228.73	229.42	229.89	230.61	229.09	228.80	228.68	228.63	228.62
27	.66	.75	.78	.71	.39	.68	.33	.08	.76	.68	.63	.62
28	.64	.74	.76	.74	.55	.51	231.94	.09	.74	.82	.62	.62
29	.66	.75	.77	.74	.71	.41	.56	.13	.74	.80		.62
30	.64	.73	.77	.74	.82	.38	230.55	.13	.73	.75		.61
31		.78		.77	.75		.18		.71	.73		.61
Mean	228.65	228.74	228.87	228.68	229.26	229.64	229.50	229.36	228.92	228.70	228.65	228.62
Max.	228.75	229.11	229.22	228.80	230.63	230.15	231.94	230.18	229.09	228.82	228.73	228.64
Min.	228.63	228.61	228.70	228.64	228.72	229.37	228.84	229.07	228.71	228.67	228.62	228.61

WATER YEAR 1965 : Max. 231.94 m. Min. 228.61 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.75	0.55	8.72	1.84	1.96	28	18	47	8.72	1.12	1.36	0.60
2	0.80	0.65	2.92	2.20	1.48	25	18	36	8.72	1.12	1.12	0.60
3	0.65	1.12	2.20	1.24	1.24	36	18	31	7.88	1.00	1.00	0.55
4	0.70	0.80	1.84	1.00	1.72	71	15	73	7.32	0.95	0.80	0.70
5	0.80	4.22	1.72	0.95	2.08	54	11	61	5.98	0.95	0.85	0.60
6	0.70	9.25	1.12	0.75	2.20	43	9.00	56	6.20	0.95	0.80	0.65
7	0.70	3.64	1.24	0.85	2.38	28	7.32	48	7.32	0.95	0.95	0.70
8	0.75	1.72	1.00	1.00	1.96	24	10	35	7.32	0.90	0.85	0.65
9	0.80	1.24	1.00	0.85	1.72	24	22	26	7.04	0.90	0.90	0.65
10	0.80	1.00	3.10	0.85	1.96	42	19	24	6.20	0.95	0.85	0.65
11	0.80	0.95	9.75	0.85	1.72	57	15	14	5.76	1.12	0.85	0.60
12	0.70	0.85	12	0.80	11	47	15	13	5.10	1.12	0.85	0.60
13	0.80	0.70	11	0.80	27	38	18	13	4.88	1.00	0.80	0.60
14	0.70	1.84	8.44	0.75	23	26	16	14	4.88	1.00	0.80	0.60
15	0.70	0.95	3.82	0.70	23	22	12	12	4.66	1.00	0.75	0.60
16	0.75	1.36	2.56	0.75	11	64	10	11	4.44	1.00	0.75	0.60
17	0.75	1.12	3.10	0.80	6.20	59	9.75	10	4.22	1.00	0.70	0.65
18	0.75	1.00	2.92	0.80	5.98	41	8.72	10	4.22	0.90	0.70	0.65
19	0.70	1.00	5.32	0.75	5.98	25	7.88	10	4.66	0.95	0.70	0.70
20	1.12	1.24	7.88	0.75	9.25	23	7.88	10	4.88	0.85	0.70	0.65
21	0.85	1.00	4.88	0.70	43	19	7.32	10	4.88	0.90	0.70	0.60
22	0.80	1.24	3.46	0.70	114	19	5.10	9.50	4.44	0.90	0.65	0.55
23	0.80	1.84	2.92	0.75	81	19	2.92	8.16	3.28	0.90	0.65	0.55
24	0.65	2.92	2.74	1.12	47	25	4.88	8.44	2.74	0.90	0.65	0.55
25	1.60	2.20	2.92	1.24	30	49	11	8.16	2.56	0.85	0.65	0.55
26	0.90	1.72	2.20	1.36	21	50	112	8.72	2.20	0.90	0.65	0.60
27	0.80	1.60	1.96	1.12	19	36	86	8.44	1.72	0.90	0.65	0.60
28	0.70	1.48	1.72	1.48	28	26	294	8.72	1.48	2.56	0.60	0.60
29	0.80	1.60	1.84	1.48	38	20	230	9.75	1.48	2.20		0.60
30	0.70	1.36	1.84	1.48	45	19	106	9.75	1.36	1.60		0.55
31		1.96		1.84	40		73		1.12	1.36		0.55
Total	24	54	118	32	649	1,059	1,200	644	148	34	22	4
Mean	0.79	1.74	3.94	1.05	21	36	39	21	4.76	1.09	0.80	0.61
Max.	1.60	9.25	12	2.20	114	71	294	73	8.72	2.56	1.36	0.70
Min.	0.65	0.55	1.00	0.70	1.24	19	2.92	8.16	1.12	0.85	0.60	0.55
Runoff - mcm.	2.074	4.666	10.195	2.764	56.074	91.498	103.680	55.642	12.787	2.938	1.901	1.210

WATER YEAR 1965 : Max. 294 Min. 0.55 Mean 11 Annual Runoff 345.81 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	18.00	232.51	439				

WATER YEAR 1965
WANG RIVER BASIN

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

Location: Lat. 17° – 37' – 29" N., Long 99° – 14' – 04" E., on the right bank of the river, about 30 meters upstream from Siriyong Bridge, Tambon Lam Raet, Amphoe Thoen, Lampang.

Drainage Area: 8,967 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: On the left bank, 5 meters from the upper gage.
- Elevation: + 20.00 m. (A.D.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1951 to date.

Rating Operation:
- Period of Rating: 1954 – 60.
- Rated by Float: –
- Rated by Current Meter: 1954 – 60.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual ratings.

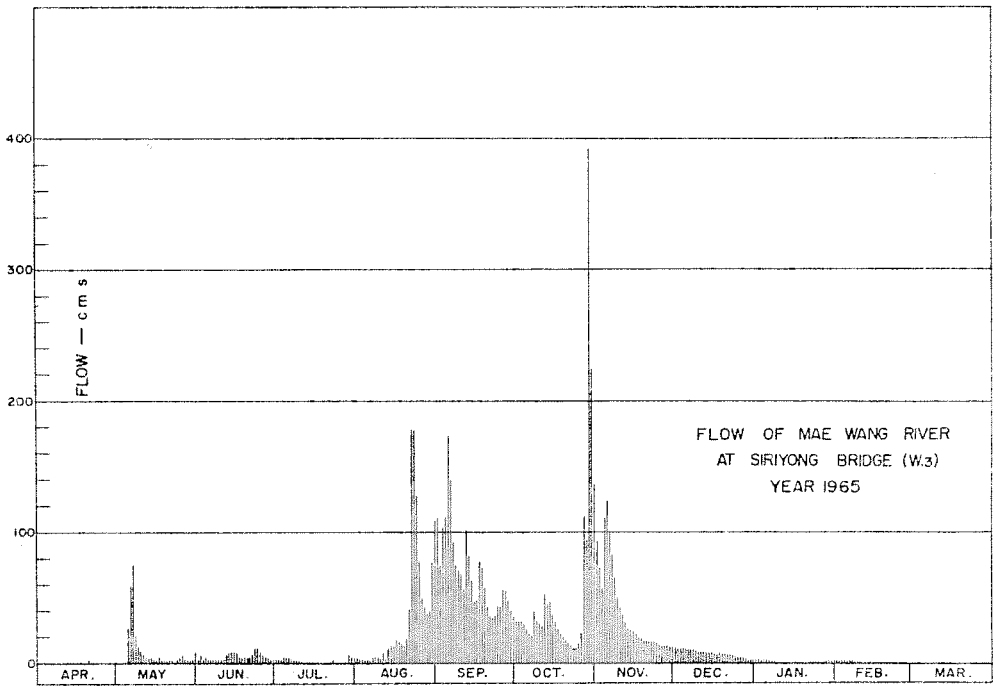
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made during period 1954 – 60. Diversion for irrigation is made of about 12,320 hectares above the station. The data presented is from the actual observation at the gage site, no adjustment made for virgin flow

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.58	14.52	14.62	14.64	14.67	15.87	15.15	15.75	14.85	14.63	14.62	14.46
2	.57	.53	.72	.64	.64	.58	.16	.58	.85	.62	.62	.46
3	.57	.54	.63	.65	.63	.82	.16	.43	.84	.61	.60	.46
4	.56	.57	.67	.68	.62	.87	.13	.87	.84	.61	.60	.46
5	.56	15.10	.64	.66	.62	16.25	.08	.96	.83	.60	.59	.45
6	14.56	15.46	14.63	14.67	14.61	16.06	15.03	15.80	14.83	14.60	14.59	14.45
7	.56	.60	.63	.65	.68	15.74	.00	.66	.83	.59	.59	.45
8	.56	.02	.64	.63	.68	.59	.24	.51	.82	.59	.58	.44
9	.55	14.87	.62	.60	.67	.56	.14	.37	.81	.58	.58	.44
10	.55	.79	.62	.59	.64	.54	.13	.28	.80	.58	.57	.47
11	14.54	14.73	14.64	14.58	14.76	15.43	15.10	15.23	14.79	14.57	14.56	14.50
12	.54	.68	.75	.57	.64	.81	.39	.14	.79	.57	.54	.50
13	.54	.67	.76	.57	.84	.65	.31	.09	.78	.57	.54	.49
14	.54	.66	.80	.57	.88	.48	.33	.08	.77	.57	.54	.47
15	.53	.64	.78	.56	.86	.33	.22	.06	.76	.56	.53	.46
16	14.53	14.63	14.76	14.58	14.96	15.34	15.15	15.03	14.75	14.56	14.53	14.45
17	.52	.69	.71	.56	.92	.62	.08	.01	.75	.56	.53	.44
18	.52	.63	.68	.55	.90	.57	.03	14.98	.77	.56	.53	.44
19	.52	.61	.67	.54	.86	.44	14.99	.96	.75	.56	.52	.43
20	.64	.61	.66	.52	.97	.29	.95	.95	.74	.57	.52	.43
21	14.56	14.62	14.71	14.55	15.26	15.20	14.92	14.94	14.74	14.58	14.51	14.43
22	.53	.60	.75	.52	16.28	.19	.88	.93	.74	.58	.50	.43
23	.52	.58	.85	.61	.28	.21	.85	.93	.73	.57	.49	.42
24	.52	.62	.84	.53	15.99	.29	.84	.92	.71	.57	.49	.42
25	.57	.69	.78	.52	.62	.30	.91	.91	.70	.57	.49	.42
26	14.57	14.72	14.73	14.53	15.36	15.42	15.03	14.89	14.68	14.57	14.48	14.41
27	.56	.65	.69	.52	.29	.41	.88	.89	.67	.58	.47	.41
28	.55	.63	.67	.57	.23	.35	.75	.88	.66	.59	.47	.41
29	.55	.60	.65	.73	.25	.25	17.15	.87	.65	.59		.40
30	.53	.61	.65	.69	.61	.20	16.50	.86	.65	.60		.38
31		.78		.68	.86		.04		.64	.59		.37
Mean	14.55	14.73	14.70	14.59	15.07	15.52	15.27	15.19	14.76	14.58	14.54	14.44
Max.	14.64	15.60	14.85	14.73	16.28	16.25	17.15	15.96	14.85	14.63	14.62	14.50
Min.	14.52	14.52	14.62	14.52	14.61	15.19	14.84	14.86	14.64	14.56	14.47	14.37

WATER YEAR 1965 : Max. 17.15 m. Min. 14.37 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.88	0.92	2.86	3.52	4.51	111	32	94	12	3.19	2.86	0.12
2	1.72	1.08	6.36	3.52	3.52	74	32	74	12	2.86	2.86	0.12
3	1.72	1.24	3.19	3.85	3.19	104	32	57	12	2.53	2.20	0.12
4	1.56	1.72	4.51	4.84	2.86	111	30	111	12	2.53	2.20	0.12
5	1.56	28	3.52	4.18	2.86	173	26	124	11	2.20	2.04	0.00
6	1.56	60	3.19	4.51	2.53	140	23	101	11	2.20	2.04	0.00
7	1.56	76	3.19	3.85	4.84	93	21	83	11	2.04	2.04	0.00
8	1.56	22	3.52	3.19	4.84	75	39	66	11	2.04	1.88	0.00
9	1.40	13	2.86	2.20	4.51	71	31	51	10	1.88	1.88	0.00
10	1.40	9.37	2.86	2.04	3.52	69	30	43	9.80	1.88	1.72	0.24
11	1.24	6.79	3.52	1.88	8.08	57	28	38	9.37	1.72	1.56	0.60
12	1.24	4.84	7.65	1.72	3.52	102	53	31	9.37	1.72	1.24	0.60
13	1.24	4.51	8.08	1.72	12	82	45	27	8.94	1.72	1.24	0.48
14	1.24	4.18	9.80	1.72	14	63	47	26	8.51	1.72	1.24	0.24
15	1.08	3.52	8.94	1.56	13	47	37	25	8.08	1.56	1.08	0.12
16	1.08	3.19	8.08	1.88	18	48	32	23	7.65	1.56	1.08	0.00
17	0.92	5.17	5.93	1.56	16	78	26	21	7.65	1.56	1.08	0.00
18	0.92	3.19	4.84	1.40	15	73	23	19	8.51	1.56	1.08	0.00
19	0.92	2.53	4.51	1.24	13	58	20	18	7.65	1.56	0.92	0.00
20	3.52	2.53	4.18	0.92	19	43	18	18	7.22	1.72	0.92	0.00
21	1.56	2.86	5.93	1.40	41	36	16	17	7.22	1.88	0.76	0.00
22	1.08	2.20	7.65	0.92	178	35	14	17	7.22	1.88	0.60	0.00
23	0.92	1.88	12	2.53	178	36	12	17	6.79	1.72	0.48	0.00
24	0.92	2.86	12	1.08	128	43	12	16	5.93	1.72	0.48	0.00
25	1.72	5.17	8.94	0.92	78	44	15	15	5.50	1.72	0.48	0.00
26	1.72	6.36	6.79	1.08	50	56	23	14	4.84	1.72	0.36	0.00
27	1.56	3.85	5.17	0.92	43	55	112	14	4.51	1.88	0.24	0.00
28	1.40	3.19	4.51	1.72	38	49	94	14	4.18	2.04	0.24	0.00
29	1.40	2.20	3.85	6.79	40	40	391	13	3.85	2.00		0.00
30	1.08	2.53	3.85	2.17	77	36	224	13	3.85	2.20		0.00
31		8.94		4.84	109		136		3.52	2.04		0.00
Total	43	296	172	79	1,129	2,102	1,674	1,200	252	60	37	2.76
Mean	1.43	9.55	5.73	2.55	36	70	54	40	8.13	1.93	1.32	0.10
Max.	3.52	76	12	6.79	178	173	391	124	12	3.19	2.86	0.60
Min.	0.92	0.92	2.86	0.92	2.53	35	12	13	3.52	1.56	0.24	0.00
Runoff - mcm.	3.715	25.574	14.861	6.826	97.546	181.623	144.634	103.680	21.773	5.184	3.197	0.238

WATER YEAR 1965 : Max. 391 Min. 0.00 Mean 19 Annual Runoff 608.840 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 29	06.00	17.29	435				

WATER YEAR 1965
WANG RIVER BASIN

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

Location: Lat. 17° – 12' – 58" N., Long 99° – 04' – 42" E., about 120 meters upstream from highway bridge, Wang Khrai, Tak.

Drainage Area: 10,424 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: B.M. R.I.D.
- **Location:** At the fence near the gage site.
- **Elevation:** + 137.182 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1952 to date.

Rating Operation:
- Period of Rating: 1952 to date.
- Rated by Float: –
- Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Stable, periodic rating curves are used for dry and flood period.

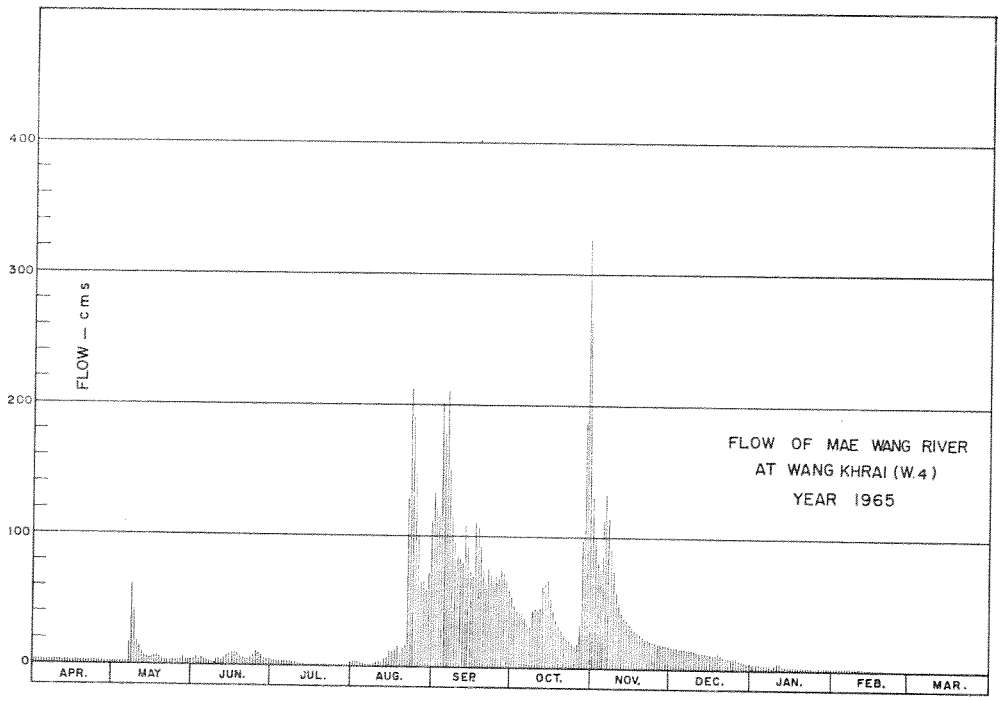
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Diversion for irrigation is made of about 12,320 hectares above the gage site. The data presented is from actual flow at the station, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	132.15	132.01	132.27	132.24	132.24	134.73	133.39	134.73	132.75	132.37	132.21	132.07
2	.14	.00	.31	.22	.22	.54	.27	.21	.72	.35	.20	.07
3	.12	131.99	.24	.21	.22	.49	.24	133.91	.72	.33	.23	.06
4	.10	.98	.31	.20	.19	135.59	.24	.71	.73	.32	.24	.06
5	.10	.97	.24	.22	.17	.20	.22	134.61	.72	.32	.22	.05
6	132.10	131.99	132.23	132.23	132.15	135.68	133.11	134.74	132.71	132.30	132.21	132.05
7	.08	132.11	.22	.21	.13	134.87	.03	.41	.70	.29	.21	.04
8	.07	133.60	.20	.21	.12	.43	132.95	.16	.70	.27	.21	.03
9	.07	132.91	.20	.20	.17	.11	133.24	133.[illegible]	.69	.26	.21	.03
10	.06	.67	.22	.18	.22	.04	.27	.60	.66	.26	.20	.03
11	132.06	132.52	132.26	132.15	132.21	33.96	133.20	133.44	132.65	132.45	132.19	132.03
12	.04	.41	.20	.13	.20	.81	.30	.33	.64	.24	.18	.08
13	.05	.33	.26	.11	.31	134.37	.61	.25	.63	.23	.17	.09
14	.04	.31	.39	.09	.24	.07	.63	.16	.63	.22	.16	.07
15	.04	.28	.42	.07	.49	133.77	.68	.14	.62	.23	.16	.07
16	132.03	132.26	132.44	132.06	132.50	133.73	133.39	133.11	132.61	132.22	132.15	132.05
17	.03	.32	.43	.06	.49	134.42	.22	.05	.59	.22	.14	.05
18	.02	.33	.39	.03	.62	.39	.11	.01	.58	.21	.14	.04
19	.02	.30	.31	.00	.57	.14	132.97	132.97	.65	.20	.12	.01
20	.01	.23	.29	131.98	.57	133.80	.89	.93	.60	.20	.12	.00
21	132.00	132.19	132.27	131.96	132.65	133.57	132.85	132.90	132.56	132.20	132.11	131.99
22	.01	.17	.25	.98	134.27	.83	.79	.89	.54	.20	.11	.99
23	.00	.17	.29	.97	135.69	.76	.73	.87	.54	.19	.10	.98
24	.07	.20	.36	132.00	.39	.65	.68	.85	.53	.19	.10	.97
25	.04	.19	.47	.02	34.66	.72	.65	.84	.51	.19	.08	.96
26	132.05	132.18	132.44	132.08	134.00	133.68	132.68	132.83	132.49	132.19	132.08	131.95
27	.11	.22	.35	.04	133.60	.81	.81	.81	.47	.19	.09	.95
28	.07	.29	.33	.02	.69	.76	134.34	.80	.44	.21	.08	.93
29	.06	.24	.29	.00	.58	.67	.65	.79	.42	.22		.89
30	.04	.22	.26	131.98	.45	.51	136.76	.77	.40	.23		.84
31		.20		132.22	134.31		135.53		.39	.21		.80
Mean	132.05	132.28	132.30	132.10	132.94	134.17	133.32	133.39	132.60	132.25	132.16	131.97
Max.	132.15	133.60	132.47	132.24	135.69	135.68	136.76	134.74	132.75	132.45	132.24	132.09
Min.	132.00	131.97	132.20	131.97	132.12	133.51	132.65	132.77	132.39	132.19	132.08	131.80

WATER YEAR 1965 : Max. 136.76 m. Min. 131.80 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.90	0.11	4.58	3.86	3.86	131	50	131	17	5.27	2.36	0.50
2	1.70	0.020	5.57	3.38	3.38	118	44	96	16	4.85	2.20	0.50
3	1.30	0.02	3.86	3.14	3.38	114	42	78	16	4.43	2.68	0.43
4	0.90	0.02	5.57	2.90	2.70	202	42	67	16	4.22	2.84	0.43
5	0.90	0.01	3.86	3.38	2.30	168	41	123	16	4.22	2.52	0.36
6	0.90	0.02	3.62	3.62	1.90	210	36	132	15	3.80	2.36	0.36
7	0.72	1.30	3.38	3.14	1.50	142	32	109	15	3.64	2.36	0.29
8	0.64	61	2.90	3.14	1.30	110	29	93	15	3.32	2.36	0.22
9	0.64	27	2.90	2.90	2.30	90	42	75	15	3.16	2.36	0.22
10	0.54	17	3.38	2.50	3.38	85	44	58	14	3.16	2.20	0.22
11	0.54	12	4.34	1.90	3.14	81	41	49	13	7.30	2.05	0.22
12	0.37	8.30	2.90	1.50	2.90	73	45	43	13	2.84	1.90	0.56
13	0.46	6.11	4.34	1.10	5.57	106	62	38	13	2.68	1.75	0.63
14	0.37	5.57	7.73	0.81	3.86	87	63	34	13	2.52	1.60	0.50
15	0.37	4.82	8.60	0.64	11	70	66	33	12	2.68	1.60	0.50
16	0.28	4.34	9.20	0.55	11	68	50	31	12	2.52	1.45	0.36
17	0.28	5.84	8.90	0.55	11	109	41	29	11	2.52	1.30	0.36
18	0.20	6.11	7.73	0.28	15	107	36	27	11	2.36	1.30	0.29
19	0.20	5.30	5.57	0.02	13	91	30	25	13	2.20	1.00	0.09
20	0.11	3.62	5.06	0.02	13	72	26	23	12	2.20	1.00	0.02
21	0.02	2.70	4.58	0.01	16	60	24	22	10	2.20	0.85	0.02
22	0.02	2.30	4.10	0.02	99	74	22	22	9.86	2.20	0.85	0.02
23	0.20	2.30	5.06	0.01	211	70	19	21	9.86	2.05	0.70	0.02
24	0.64	2.90	6.92	0.02	184	64	17	20	9.57	2.05	0.70	0.01
25	0.37	2.70	10	0.20	126	68	16	20	8.99	2.05	0.56	0.01
26	0.28	2.50	9.20	0.72	83	66	17	19	8.42	2.05	0.56	0.01
27	0.11	3.38	6.65	0.37	61	73	22	19	7.86	2.05	0.63	0.01
28	0.02	5.06	6.11	0.20	66	70	104	18	7.02	2.36	0.56	0.01
29	0.02	3.86	5.06	0.020	60	65	125	18	6.46	2.52		0.00
30	0.37	3.38	4.34	0.02	53	56	325	17	5.90	2.68		0.00
31		2.90		3.38	102		197		5.69	2.36		0.00
Total	15	202	166	44	1,176	2,900	1,750	1,490	368	94	45	7.16
Mean	0.50	6.52	5.53	1.42	38	97	56	50	12	3.03	1.61	0.23
Max.	1.90	61	10	3.86	211	210	325	132	17	7.30	2.84	0.63
Min.	0.02	0.01	2.90	0.01	1.30	56	16	17	5.69	2.05	0.56	0.00
Runoff - mcm.	1.296	17.453	14.342	3.802	101.606	250.560	151.200	128.736	31.795	8.123	3.888	61.862

WATER YEAR 1965 : Max. 325 Min. 0.00 Mean 23 Annual Runoff 713.405 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 30	06.00	136.90	342	Sept. 6	09.00	135.67	314

WATER YEAR 1965
WANG RIVER BASIN

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

Location: Lat. 18° - 36' - 46" N., Long 99° - 37' - 08" E., on the left bank, 1 kilometer upstream from Kiu Lom Damsite, Amphoe Muang, Lampang.

Drainage Area: 2,813 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 260.91 m. (M.S.L.)

Bench Mark:
- Location: Located at about 5 meters from the upper gage.
- Elevation: + 268.599 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent the mean daily value.

Period of Available Gage Records: 1962 to date.

Rating Operation:
- Period of Rating: 1962 to date.
- Rated by Float: -
- Rated by Current Meter: 1962 to date.

Stability of Channel Regimes: Very stable, shifting adjustment is negligible in flow computation because deviations of rating points from the rating curve are very small.

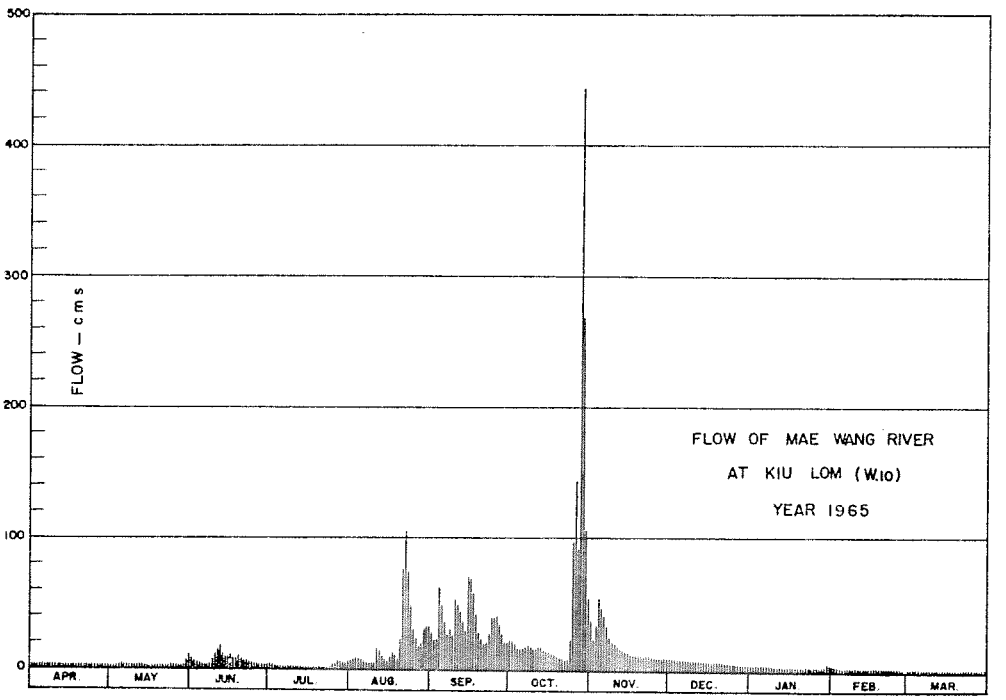
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship is difined by discharge measurements made in 1965. There is not diversion above the station, except those built by local people. No adjustment for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	261.33	261.31	261.64	261.48	261.61	262.16	262.08	262.44	261.70	261.46	261.43	261.28
2	.33	.31	.55	.43	.65	.03	.06	.27	.69	.45	.42	.27
3	.32	.30	.52	.41	.61	.15	261.97	.32	.68	.45	.40	.27
4	.34	.42	.47	.36	.65	.87	.91	.74	.67	.46	.38	.27
5	.33	.47	.43	.32	.63	.57	.91	.60	.67	.46	.37	.27
6	261.34	261.40	261.40	261.31	261.55	262.30	261.97	262.50	261.66	261.45	261.37	261.27
7	.33	.39	.40	.30	.50	.15	.95	.23	.65	.45	.36	.27
8	.33	.37	.44	.28	.48	.29	.99	.11	.64	.46	.35	.27
9	.32	.37	.69	.31	.50	.09	.92	.04	.64	.45	.35	.27
10	.31	.39	.78	.31	.48	.72	.90	.02	.63	.45	.35	.27
11	261.31	261.39	261.91	261.31	261.90	262.60	261.93	261.93	261.61	261.44	261.34	261.27
12	.31	.40	.96	.30	.85	.53	.97	.90	.61	.43	.34	.27
13	.30	.39	.74	.29	.68	.30	.93	.86	.60	.42	.33	.26
14	.30	.37	.64	.29	.60	.15	.85	.84	.59	.42	.33	.26
15	.30	.31	.65	.29	.57	.99	.84	.82	.59	.42	.33	.26
16	261.31	261.30	261.75	261.28	261.67	262.97	261.82	261.80	261.58	261.41	261.33	261.25
17	.31	.35	.63	.28	.81	.74	.82	.79	.58	.41	.32	.25
18	.30	.36	.64	.28	.70	.36	.77	.78	.61	.40	.32	.24
19	.30	.35	.71	.28	.63	.18	.72	.78	.60	.40	.31	.23
20	.30	.35	.60	.30	.78	.05	.70	.78	.61	.40	.31	.23
21	261.32	261.39	261.57	261.28	263.07	261.98	261.68	261.79	261.60	261.40	261.31	261.22
22	.32	.37	.61	.27	.46	262.04	.64	.77	.57	.40	.30	.22
23	.38	.39	.58	.27	262.84	.18	.62	.76	.56	.40	.30	.21
24	.37	.45	.51	.33	.43	.46	.66	.75	.54	.40	.29	.21
25	.35	.42	.47	.44	.21	.47	263.11	.75	.53	.39	.29	.21
26	261.36	261.40	261.44	261.46	262.04	262.48	263.91	261.73	261.51	261.39	261.29	261.20
27	.35	.40	.41	.57	261.93	.28	262.81	.73	.50	.39	.29	.20
28	.34	.42	.43	.55	262.05	.13	266.47	.72	.49	.39	28	.20
29	.34	.43	.41	.50	.28	.02	263.99	.72	.47	.43		.20
30	.33	.63	.42	.49	.32	.03	.12	.72	.46	.54		.21
31		.78		.58	.33		262.64		.46	.47		.21
Mean	261.33	261.40	261.58	261.75	261.93	262.43	262.30	261.96	261.59	261.43	261.33	261.24
Max.	261.38	261.78	261.96	261.58	263.46	262.99	266.47	262.74	261.70	261.54	261.43	261.28
Min.	261.30	261.30	261.40	261.27	261.48	261.98	261.62	261.72	261.46	261.39	261.28	261.20

WATER YEAR 1965 : Max. 266.47 m. Min. 261.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.30	2.10	8.00	4.60	7.25	26	23	39	9.50	4.20	3.60	1.80
2	2.30	2.10	6.00	3.60	8.25	21	22	31	9.25	4.00	3.40	1.70
3	2.20	2.00	5.40	3.20	7.25	25	18	33	9.00	4.00	3.00	1.70
4	2.40	3.40	4.40	2.60	8.25	63	16	55	8.75	4.20	2.80	1.70
5	2.30	4.40	3.60	2.20	7.75	46	16	47	8.75	4.20	2.70	1.70
6	2.40	3.00	3.00	2.10	6.00	32	18	42	8.50	4.00	2.70	1.70
7	2.30	2.90	3.00	2.00	5.00	25	18	29	8.25	4.00	2.60	1.70
8	2.30	2.70	3.80	1.80	4.60	31	19	24	8.00	4.20	2.50	1.70
9	2.20	2.70	9.25	2.10	5.00	23	17	21	8.00	4.00	2.50	1.70
10	2.10	2.90	12	2.10	4.60	54	16	20	7.75	4.00	2.50	1.70
11	2.10	2.90	16	2.10	16	47	17	17	7.25	3.80	2.40	1.70
12	2.10	3.00	18	2.00	14	44	18	16	7.25	3.60	2.40	1.70
13	2.00	2.90	11	1.90	9.00	32	17	15	7.00	3.40	2.30	1.60
14	2.00	2.70	8.00	1.90	7.00	25	14	14	6.80	3.40	2.30	1.60
15	2.00	2.10	8.25	1.90	6.40	71	14	13	6.80	3.40	2.30	1.60
16	2.10	2.00	11	1.80	8.75	69	13	12	6.60	3.20	2.30	1.50
17	2.10	2.50	7.75	1.80	13	55	13	12	6.60	3.20	2.20	1.50
18	2.00	2.60	8.00	1.80	9.50	35	12	12	7.25	3.00	2.20	1.40
19	2.00	2.50	9.80	1.80	7.75	27	10	12	7.00	3.00	2.10	1.30
20	2.00	2.50	7.00	2.00	12	21	9.50	12	7.25	3.00	2.10	1.30
21	2.20	2.90	6.40	1.80	77	19	9.00	12	7.00	3.00	2.10	1.20
22	2.20	2.70	7.25	1.70	106	21	8.00	12	6.40	3.00	2.00	1.20
23	2.80	2.90	6.60	1.70	61	27	7.50	11	6.20	3.00	2.00	1.10
24	2.70	4.00	5.20	2.30	38	40	8.50	11	5.80	3.00	1.90	1.10
25	2.50	3.40	4.40	3.80	28	40	84	11	5.60	2.90	1.90	1.10
26	2.60	3.00	3.80	4.20	21	41	144	10	5.20	2.90	1.90	1.00
27	2.50	3.00	3.20	6.40	17	31	60	10	5.00	2.90	1.90	1.00
28	2.40	3.40	3.60	6.00	21	25	443	10	4.80	2.90	1.80	1.00
29	2.40	3.60	3.20	5.00	31	20	151	10	4.40	3.60		1.00
30	2.30	7.75	3.40	4.80	33	21	80	10	4.20	5.80		1.10
31		12		6.60	33		50		4.20	4.40		1.10
Total	68	102	210	90	633	1,057	1,365	583	214	111	66	44
Mean	2.26	3.31	7.01	2.89	20	35	44	19	6.91	3.59	2.37	1.42
Max.	2.80	12	18	6.60	106	71	443	55	9.50	5.80	3.60	1.80
Min.	2.00	2.00	3.00	1.70	4.60	19	7.50	10	4.20	2.90	1.80	1.00
Runoff - mcm.	5.875	8.813	18.144	7.776	54.691	91.325	117.936	50.371	18.490	9.590	5.702	3.802

WATER YEAR 1965 : Max. 443 Min. 1.00 Mean 12 Annual Runoff 392.515 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 28	12.00	266.64	467				

WATER YEAR 1965
YOM RIVER BASIN

Mae Yom River at Muang Phrae (Y. 1)

Location: Lat.18° - 08' - 32" N., Long 100° - 08' - 07" E., on the left bank, infront of the liquor factory near Wat Chetawan, Amphoe Muang, Phrae.

Drainage Area: 7,517 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 144.00 m. (M.S.L.)

Bench Mark:
Location: BM. - R.I.D. 1, located on the left bank about 23 meters downstream from the gage section.
Elevation: + 153.810 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent the mean daily value.

Period of Available Gage Records: 1939 to date.

Rating Operation:
Period of Rating: 1954, 1956, 1957 - 60.
Rated by Float: -
Rated by Current Meter: 1954, 1956, 1957 - 60.

Stability of Channel Regimes: Stable, no shifting adjustment is made in years without rating operation.

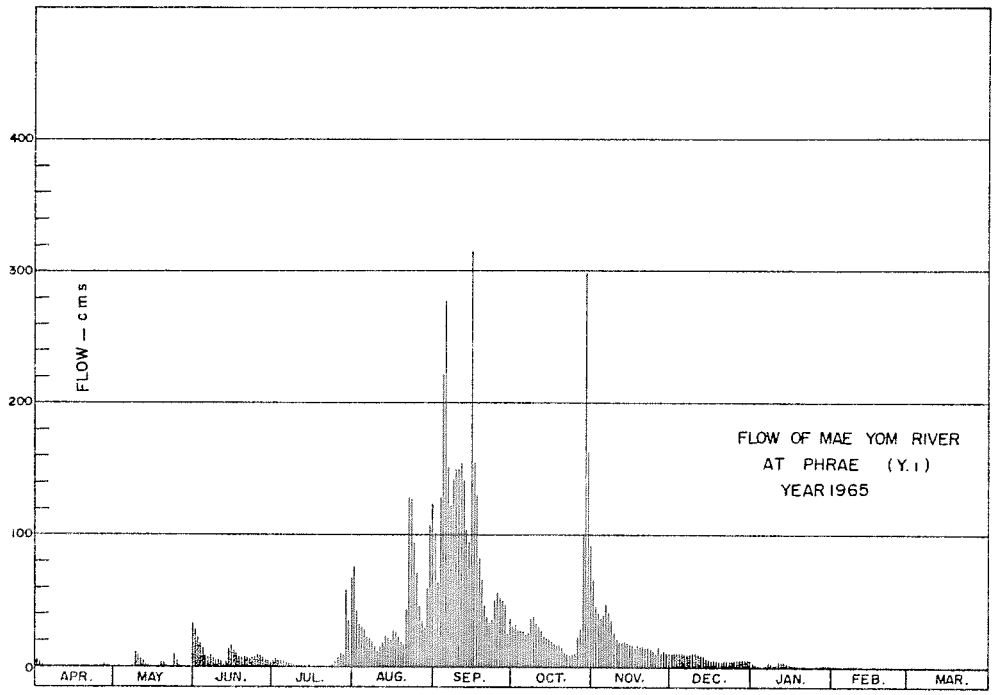
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship is defined by discharge measurements made during 1957 - 60. Diversion for irrigation of about 24,000 hectares in 1966, the total irrigation area is 35,840 hectares at Mae Yom weir. This project began in 1933 and is still under canal construction. The presented data is from actual flow at the gage site, no adjustment is made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.05	144.79	145.72	145.05	146.34	146.60	145.73	146.21	145.29	144.98	144.85	144.73
2	144.94	.78	.59	.11	145.92	.19	.75	145.97	.28	.87	.85	.73
3	.87	.79	.50	.07	.77	.85	.69	.91	.28	.83	.84	.73
4	.79	.77	.40	.07	.73	147.61	.69	.84	.29	.81	.84	.73
5	.77	.75	.26	.02	.70	.98	.68	.89	.28	.79	.83	.72
6	144.69	144.74	145.19	144.98	145.60	147.07	145.64	145.89	145.27	144.85	144.82	144.72
7	.70	.71	.21	.96	.57	146.80	.65	.90	.27	.95	.84	.73
8	.70	.85	.12	.93	.53	147.00	.83	.81	.27	.93	.85	.73
9	.69	145.33	.05	.89	.42	.06	.86	.65	.28	.89	.84	.74
10	.68	.24	.06	.86	.33	.06	.77	.54	.28	.89	.83	.74
11	144.67	145.17	145.03	144.84	145.42	147.10	145.74	145.51	145.27	145.00	144.82	144.75
12	.67	.03	144.88	.84	.49	146.99	.67	.49	.27	144.97	.81	.75
13	.67	144.88	.98	.81	.62	.62	.60	.50	.22	.97	.80	.74
14	.69	.85	145.40	.78	.58	.53	.58	.49	.11	.93	.80	.74
15	.76	.83	.44	.87	.55	148.22	.55	.47	.09	.89	.80	.74
16	144.75	144.83	145.35	144.84	145.69	147.10	145.51	145.44	145.05	144.86	144.78	144.73
17	.74	.80	.29	.74	.67	146.88	.48	.40	.07	.85	.77	.72
18	.74	.82	.19	.73	.60	.40	.46	.44	.03	.83	.76	.72
19	.78	.99	.18	.69	.51	.22	.44	.43	.00	.83	.75	.70
20	.81	.96	.19	.68	.47	145.99	.41	.43	144.98	.82	.74	.70
21	144.82	144.87	145.15	144.66	145.94	145.87	145.31	145.41	145.03	144.82	144.74	144.70
22	.76	.84	.10	.65	146.86	.79	.27	.39	.02	.81	.74	.69
23	.75	.83	.19	.64	.85	.81	.20	.37	.02	.80	.73	.69
24	.72	145.30	.19	.87	.51	146.02	.25	.34	.02	.80	.73	.68
25	.69	.03	.28	.97	.29	.09	.29	.30	.05	.81	.72	.67
26	144.66	144.85	145.26	145.15	145.97	146.05	145.60	145.40	145.05	144.83	144.73	144.64
27	.90	.76	.20	.30	.80	.02	.74	.30	.04	.85	.73	.62
28	.85	.72	.07	.24	.73	145.97	145.58	.34	.08	.85	.72	.61
29	.83	.69	.05	146.14	146.14	.63	148.11	.30	.07	.85		.60
30	.79	.68	144.99	145.80	.65	.82	147.17	.30	.06	.86		.60
31		145.78		146.24	.81		146.50		.05	.86		.59
Mean	144.76	144.91	145.21	145.01	145.87	146.57	145.73	145.55	145.14	144.86	144.78	144.70
Max.	145.05	145.78	145.72	146.24	146.86	148.22	148.11	146.21	145.29	145.00	144.85	144.75
Min.	144.66	144.68	144.88	144.64	145.33	145.63	145.20	145.30	144.98	144.79	144.72	144.59

WATER YEAR 1965 : Max. 148.22 m. Min. 144.59 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.00	0.00	29	5.00	76	102	30	65	10	3.60	1.00	0.00
2	2.80	0.00	22	6.20	42	63	31	45	10	1.40	1.00	0.00
3	1.40	0.00	18	5.40	32	127	27	41	10	0.60	0.80	0.00
4	0.00	0.00	14	5.40	30	221	27	36	10	0.20	0.80	0.00
5	0.00	0.00	9.20	4.40	28	277	27	39	10	0.00	0.60	0.00
6	0.00	0.00	7.80	3.60	22	150	24	47	9.40	1.00	0.40	0.00
7	0.00	0.00	8.20	3.20	21	122	25	40	9.40	3.00	0.80	0.00
8	0.00	1.00	6.40	2.60	19	142	36	35	9.40	2.60	1.00	0.00
9	0.00	11	5.00	1.80	15	149	38	25	10	1.80	0.80	0.00
10	0.00	8.80	5.20	1.20	11	149	32	20	10	1.80	0.60	0.00
11	0.00	7.40	4.60	0.80	15	154	30	18	9.40	4.00	0.40	0.00
12	0.00	4.60	1.60	0.80	18	141	26	18	9.40	3.40	0.20	0.00
13	0.00	1.60	3.60	0.20	23	104	22	18	8.40	3.40	0.00	0.00
14	0.00	1.00	14	0.00	21	95	21	18	6.20	2.60	0.00	0.00
15	0.00	0.60	16	1.40	20	315	20	17	5.80	1.80	0.00	0.00
16	0.00	0.60	12	0.80	27	154	18	16	5.00	1.20	0.00	0.00
17	0.00	0.00	10	0.00	26	130	17	14	5.40	1.00	0.00	0.00
18	0.00	0.40	7.80	0.00	22	82	16	16	4.60	0.60	0.00	0.00
19	0.00	3.80	7.60	0.00	18	66	16	15	4.00	0.60	0.00	0.00
20	0.20	3.20	7.80	0.00	17	47	14	15	3.60	0.40	0.00	0.00
21	0.40	1.40	7.00	0.00	43	38	10	14	4.60	0.40	0.00	0.00
22	0.00	0.80	6.00	0.00	128	33	9.40	14	4.40	0.20	0.00	0.00
23	0.00	0.60	7.80	0.00	127	35	8.00	13	4.40	0.00	0.00	0.00
24	0.00	10	7.80	1.40	93	50	9.00	12	4.40	0.00	0.00	0.00
25	0.00	4.60	9.60	3.40	71	55	10	10	5.00	0.20	0.00	0.00
26	0.00	1.00	9.20	7.00	46	52	22	14	5.00	0.60	0.00	0.00
27	2.00	0.00	8.00	10	34	50	30	10	4.80	1.00	0.00	0.00
28	1.00	0.00	5.40	8.80	30	46	100	12	5.60	1.00	0.00	0.00
29	0.60	0.00	5.00	59	59	24	298	10	5.40	1.00		0.00
30	0.00	0.00	3.80	34	107	35	162	10	5.20	1.20		0.00
31		33		67	123		92		5.00	1.20		0.00
Total	13	95	279	233	1,364	3,208	1.247	677	214	42	8.40	0.00
Mean	0.43	3.06	9.30	7.52	44	107	40	23	6.90	1.30	0.30	0.00
Max.	5.00	33	29	59	128	315	298	65	10	4.00	1.00	0.00
Min.	0.00	0.00	1.60	0.00	11	24	8.00	10	3.60	0.00	0.00	0.00
Runoff - mcm.	1.123	8.208	24.106	20.131	117.850	277.171	107.741	58.493	18.490	3.629	0.726	0.00

WATER YEAR 1965 : Max. 315 Min. 0.00 Mean 20 Annual Runoff 637.668 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 15	18.00	148.40	346	Oct. 29	06.00	148.30	329

WATER YEAR 1965
YOM RIVER BASIN

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

Location: Lat. 17° – 00' – 18" N., Long 99° – 49' – 31" E., infront of the house of the Governor, Sukhothai

Drainage Area: 17,658 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 44.00 m. (M.S.L.)

Bench Mark:
- Location: Located at about 22 meters from the upper gage.
- Elevation: + 47.579 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

Period of Available Gage Records: 1950 – 60, 1962 to date

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

Stability of Channel Regimes: Stable, no shifting made for year of no actual rating operation

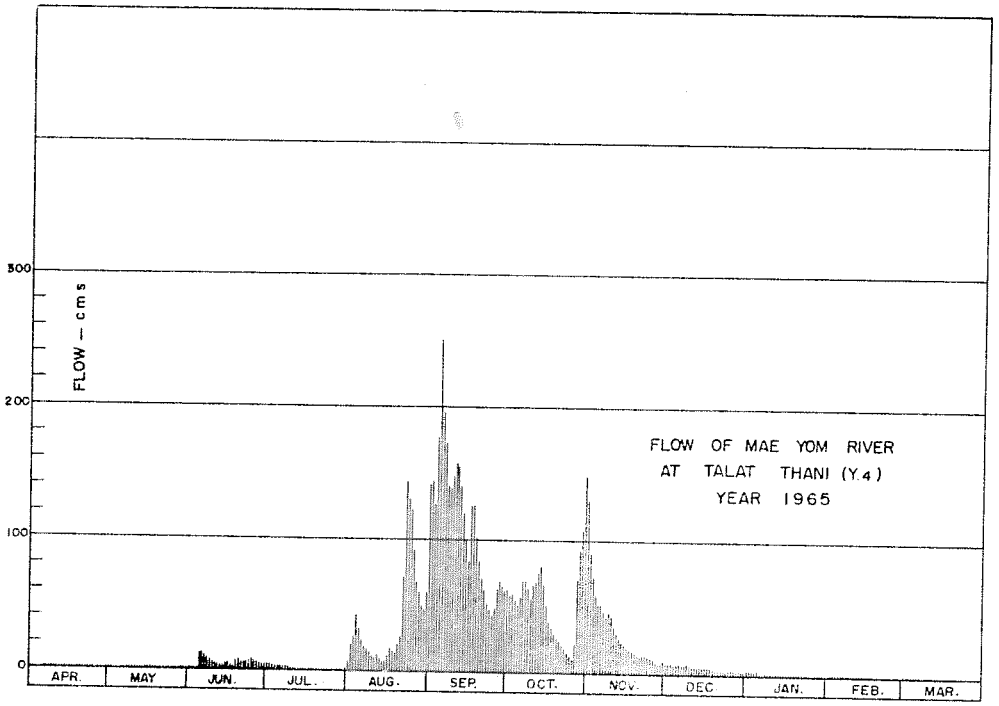
Overbank Flow Conditions: No overbank flow

General Description: Records are classified as good. Stage-discharge relationship is defined by discharge measurements made during 1954 – 56. Flow is diverted for irrigation of about 24,000 hectares above the gage site, the data presented is from actual flow at the station, no adjustment is made for vergin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	44.84	44.69	45.20	45.55	45.77	48.52	47.43	48.42	45.70	45.21	44.81	44.59
2	.79	.68	.13	.51	46.33	.54	.35	47.93	.74	.22	.88	.57
3	.76	.68	.10	.42	.53	.36	.36	.62	.77	.23	.90	.57
4	.77	.69	.17	.36	.99	.78	.27	.34	.72	.21	.87	.56
5	.76	.66	.97	.44	.74	49.04	.21	.22	.70	.21	.85	.56
6	44.78	44.65	46.02	45.38	46.42	48.87	47.32	47.23	45.69	45.14	44.81	44.55
7	.86	.67	45.89	.31	.24	.75	.58	.08	.67	.09	.79	.54
8	.97	45.05	.87	.26	.15	.50	.59	46.97	.65	.04	.79	.54
9	45.03	.19	.74	.23	.11	.49	.46	47.07	.65	44.99	.78	.53
10	.04	.09	.60	.19	45.95	.57	.29	46.99	.64	.94	.77	.52
11	45.02	45.00	45.50	45.14	45.80	48.65	47.52	46.78	45.62	44.91	44.76	44.51
12	44.98	44.91	.46	.09	46.01	.63	.56	.63	.60	45.10	.75	.51
13	.94	.86	.41	.04	45.86	.50	.70	.51	.61	.06	.74	.51
14	.90	.79	.35	.01	.65	.31	.77	.42	.61	44.93	.71	.50
15	.83	.93	.51	44.97	.77	.06	.50	.36	.58	.86	.70	.50
16	44.78	45.14	45.54	44.94	45.94	47.80	47.19	46.29	45.55	44.84	44.68	44.50
17	.72	.16	.41	.89	46.21	48.38	46.91	.23	.53	.82	.67	.50
18	.70	.06	.40	.85	.14	.38	.73	.16	.49	.85	.66	.50
19	.69	44.98	.67	.83	.09	.09	.60	.12	.41	.86	.65	.50
20	.68	.90	.71	.80	.38	47.84	.51	.06	.33	.85	.64	.50
21	44.67	44.88	45.65	44.77	46.54	47.59	46.44	46.01	45.27	44.82	44.63	44.50
22	.69	.84	.59	.78	47.62	.42	.34	.02	.33	.79	.62	.49
23	.73	.85	.68	.88	48.54	.22	.21	.03	.39	.77	.64	.49
24	.76	.83	.72	.82	.41	.09	.10	.01	.37	.76	.68	.47
25	.70	.84	.79	.79	.34	46.99	45.97	45.97	.30	.75	.66	.46
26	44.67	44.82	45.71	44.78	47.96	47.13	45.91	45.91	45.28	44.75	44.65	44.44
27	.66	.84	.64	.78	.55	.45	46.38	.79	.28	.71	.63	.43
28	.66	.86	.61	.78	.38	.56	47.61	.70	.28	.76	.61	.42
29	.67	.90	.56	.82	.17	.46	.97	.77	.26	.79		.41
30	.68	45.03	.59	.90	.09	.41	48.13	.80	.23	.77		.40
31		.17		45.05	.40		.58		.21	.77		.39
Mean	44.80	44.89	45.57	45.04	46.68	48.08	47.13	46.55	45.50	44.93	44.73	44.50
Max.	45.04	45.19	46.02	45.55	48.54	49.04	48.58	48.42	45.77	45.23	44.90	44.59
Min.	44.66	44.65	45.10	44.77	45.65	46.99	45.91	45.70	45.21	44.71	44.61	44.39

WATER YEAR 1965 : Max. 49.04 m. Min. 44.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.60	0.25	1.90	5.00	7.92	141	61	130	6.80	2.97	0.52	0.09
2	0.48	0.24	1.48	4.52	20	143	57	89	7.44	2.04	0.69	0.07
3	0.45	0.24	1.30	3.60	26	124	58	71	7.92	2.11	0.74	0.07
4	0.43	0.25	1.72	3.08	42	176	53	57	7.12	2.97	0.67	0.06
5	0.41	0.20	12	3.80	32	250	50	51	6.80	2.97	0.62	0.06
6	0.45	0.18	13	3.24	22	195	56	51	6.68	1.54	0.52	0.05
7	0.64	0.22	10	2.68	18	172	69	45	6.44	1.27	0.48	0.04
8	0.92	1.15	9.66	2.32	16	139	69	41	6.20	1.12	0.48	0.04
9	1.09	1.84	7.44	2.11	15	138	63	45	6.20	0.97	0.45	0.03
10	1.12	1.27	5.60	1.84	11	147	54	42	6.08	0.84	0.43	0.02
11	1.06	1.00	4.40	1.54	8.40	157	66	34	5.84	0.77	0.41	0.01
12	0.95	0.77	4.00	1.27	12	154	68	29	5.60	1.30	0.38	0.01
13	0.84	0.64	3.50	1.12	9.48	139	75	25	5.72	1.18	0.36	0.01
14	0.74	0.48	3.00	1.03	6.20	119	79	22	5.72	0.82	0.29	0.00
15	0.57	0.82	4.52	0.92	7.92	99	65	21	5.36	0.64	0.27	0.00
16	0.45	1.54	4.88	0.84	11	81	50	19	5.00	0.60	0.24	0.00
17	0.32	1.66	3.50	0.72	17	126	38	17	4.76	0.55	0.22	0.00
18	0.27	1.18	3.40	0.62	15	126	32	16	4.30	0.62	0.20	0.00
19	0.25	0.95	6.44	0.57	14	101	28	15	3.50	0.64	0.18	0.00
20	0.24	0.74	6.96	0.50	21	83	25	13	2.84	0.62	0.17	0.00
21	0.22	0.69	6.20	0.43	26	69	23	12	2.39	0.55	0.15	0.00
22	0.25	0.60	5.48	0.45	71	61	20	13	2.84	0.48	0.13	0.00
23	0.34	0.62	6.56	0.69	143	51	17	13	3.32	0.43	0.17	0.00
24	0.41	0.57	7.12	0.55	129	46	14	12	3.16	0.41	0.24	0.00
25	0.27	0.60	8.24	0.48	122	42	12	12	2.60	0.38	0.20	0.00
26	0.22	0.55	6.96	0.45	91	47	10	10	2.46	0.34	0.18	0.00
27	0.20	0.60	6.08	0.45	67	62	21	8.24	2.46	0.29	0.15	0.00
28	0.20	0.64	5.72	0.45	59	68	70	6.80	2.46	0.41	0.12	0.00
29	0.22	0.74	5.12	0.55	49	63	92	7.92	2.32	0.48		0.00
30	0.24	1.09	5.48	0.74	46	60	104	8.40	2.11	0.43		0.00
31		1.72		1.15	60		148		1.97	0.43		0.00
Total	15	24	172	78	1,195	3,379	1,647	936	144	31	10	0.56
Mean	0.50	0.77	5.73	2.52	38	113	53	31	4.64	1.00	0.36	0.02
Max.	1.12	1.84	13	5.00	143	250	148	130	7.92	2.97	0.74	0.09
Min.	0.20	0.18	1.30	0.43	6.20	42	10	6.80	1.97	0.29	0.12	0.00
Runoff - mcm.	1.296	2.074	14.861	6.740	103.248	291.946	142.301	80.870	12.442	2.678	0.864	0.048

WATER YEAR 1965 : Max. 250 Min. 0.00 Mean 20.9 Annual Runoff 659.368 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 5	06.00	49.09	257	Oct.31	12.00	48.60	150

WATER YEAR 1965
YOM RIVER BASIN

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

Location: Lat. 17° - 26' - 03" N., Long 99° - 47' - 32" E., 150 meters upstream from Kaeng Luang, Sukhothai.

Drainage Area: 12,585 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

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

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: 1952 to date

Rating Operation:
Period of Rating: 1952 to date.
Rated by Float: -
Rated by Current Meter: 1952 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible in flow computation due to its adequate stability.

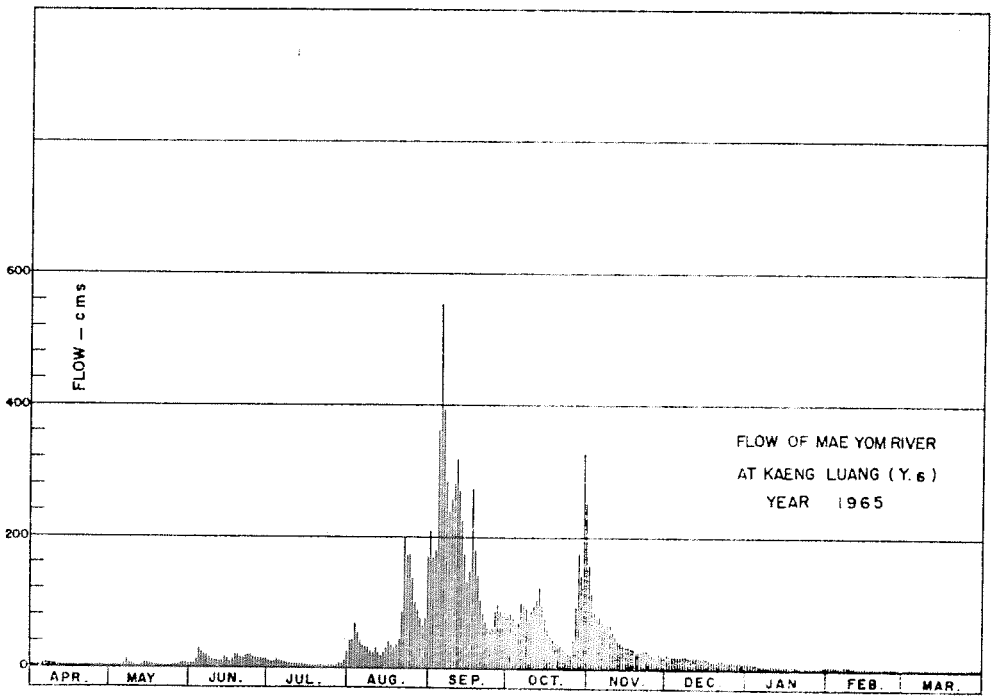
Overbank Flow Conditions: No overbank flow

General Description: Records are classified as good. Flow is diverted for irrigation of about 24,000 hectares above the gage site. The data presented is from actual flow at this station, no adjustment is made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	59.64	59.63	59.79	60.02	60.62	62.11	61.13	61.78	60.25	59.96	59.83	59.63
2	.64	.61	.79	59.97	.62	61.86	.15	.46	.23	.94	.81	.63
3	.63	.60	60.05	.96	61.00	.94	.09	.19	.19	.89	.78	.62
4	.62	.60	.40	60.05	60.80	62.89	60.97	.09	.19	.86	.78	.61
5	.84	.62	.31	59.96	.61	63.62	61.02	.12	.18	.83	.76	.60
6	59.82	59.77	60.23	59.96	60.52	63.03	61.31	61.02	60.18	59.81	59.75	59.59
7	.78	60.03	.22	.94	.48	62.52	.29	60.94	.18	.80	.78	.58
8	.77	59.87	.11	.91	.46	.28	.23	61.02	.17	.78	.78	.59
9	.77	.82	.03	.88	.34	.39	.07	60.99	.17	.76	.77	.58
10	.75	.74	.01	.86	.28	.51	.22	.84	.15	.80	.74	.58
11	59.71	59.69	60.00	59.83	60.44	62.70	61.28	60.73	60.16	59.87	59.74	59.58
12	.68	.67	59.94	.81	.26	.45	.33	.64	.17	.83	.73	.57
13	.67	.75	.98	.80	.19	.21	.52	.59	.15	.79	.73	.57
14	.65	.90	60.11	.78	.30	61.89	.29	.55	.14	.77	.73	.59
15	.63	.85	.05	.76	.42	.57	.07	.51	.13	.76	.73	.59
16	59.62	59.83	59.96	59.75	60.59	61.71	60.87	60.48	60.12	59.77	59.72	59.58
17	.60	.78	60.04	.73	.49	62.47	.74	.43	.09	.81	.70	.57
18	.59	.76	.22	.72	.44	61.94	.66	.41	.02	.80	.69	.57
19	.58	.73	.18	.72	.52	.66	.60	.36	59.99	.78	.69	.55
20	.62	.70	.12	.75	.66	.35	.55	.34	.96	.77	.67	.55
21	59.74	59.70	60.08	59.75	61.18	61.16	60.49	60.36	60.07	59.75	59.68	59.54
22	.65	.71	.17	.74	62.06	.03	.41	.37	.06	.74	.68	.54
23	.62	.70	.21	.73	61.88	60.97	.34	.36	.02	.73	.68	.53
24	.59	.73	.21	.73	.90	.87	.27	.34	59.99	.73	.70	.53
25	.59	.76	.13	.72	.64	.93	.25	.29	.98	.72	.66	.53
26	59.61	59.78	60.10	59.71	61.33	61.19	60.63	60.20	60.00	59.72	59.65	59.52
27	.63	.75	.09	.73	.21	.30	61.26	.15	59.99	.71	.64	.51
28	.65	.81	.06	.85	.07	.18	.91	.25	.98	.73	.63	.52
29	.65	.87	.05	.85	60.96	.15	.65	.22	.98	.73		.51
30	.64	.91	.05	.99	61.09	.19	62.74	.16	.96	.77		.51
31		.82		60.33	.87		.36		.96	.81		.50
Mean	59.66	59.75	60.08	59.81	60.84	61.83	61.08	60.63	60.09	59.79	59.72	59.56
Max.	59.84	60.03	60.40	60.33	62.06	63.62	62.74	61.78	60.25	59.96	59.83	59.63
Min.	59.58	59.60	59.79	59.71	60.19	60.87	60.25	60.15	59.96	59.71	59.63	59.50

WATER YEAR 1965 : Max. 63.62 m. Min. 59.50 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.92	1.79	4.50	11	41	206	79	155	21	9.38	5.51	1.79
2	1.92	1.53	4.50	9.71	41	166	81	114	20	8.72	4.97	1.79
3	1.79	1.40	13	9.38	66	178	75	85	18	7.13	4.30	1.66
4	1.66	1.40	28	13	52	359	64	75	18	6.32	4.30	1.53
5	5.78	1.66	24	9.38	40	551	68	78	18	5.51	3.90	1.40
6	5.24	4.10	20	9.38	35	392	97	68	18	4.97	3.70	1.32
7	4.30	12	19	8.72	32	281	95	61	18	4.70	4.30	1.24
8	4.10	6.59	15	7.73	31	235	89	68	17	4.30	4.30	1.32
9	4.10	5.24	12	6.86	25	256	73	65	17	3.90	4.10	1.24
10	3.70	3.50	11	6.32	22	279	88	55	16	4.70	3.50	1.24
11	2.90	2.57	11	5.51	30	317	94	48	17	6.59	3.50	1.24
12	2.44	2.31	8.72	4.97	21	267	99	42	17	5.51	3.30	1.16
13	2.31	3.70	10	4.70	18	223	121	39	16	4.50	3.30	1.16
14	2.05	7.40	15	4.30	23	171	95	36	16	4.10	3.30	1.32
15	1.79	6.05	13	3.90	29	127	73	34	16	3.90	3.30	1.32
16	1.66	5.51	9.38	3.70	39	145	57	32	15	4.10	3.10	1.24
17	1.40	4.30	12	3.30	33	271	48	30	14	4.97	2.70	1.16
18	1.32	3.90	19	3.10	30	178	43	29	11	4.70	2.57	1.16
19	1.24	3.30	18	3.10	35	139	39	26	10	4.36	2.57	1.00
20	1.66	2.70	15	3.70	43	101	36	25	9.38	4.10	2.31	1.00
21	3.50	2.70	14	3.70	84	82	33	26	13	3.70	2.44	0.92
22	2.05	2.90	17	3.50	198	69	29	27	13	3.50	2.44	0.92
23	1.66	2.70	19	3.30	169	64	25	26	11	3.30	2.44	0.84
24	1.32	3.30	19	3.30	172	57	22	25	10	3.30	2.70	0.84
25	1.32	3.90	16	3.10	136	61	21	23	10	3.10	2.18	0.84
26	1.53	4.30	14	2.90	99	85	41	18	11	3.10	2.05	0.76
27	1.79	3.70	14	3.30	87	96	92	16	10	2.90	1.92	0.68
28	2.05	4.97	13	6.05	73	84	174	21	10	3.30	1.79	0.76
29	2.05	6.59	13	6.05	63	81	137	19	10	3.30		0.68
30	1.92	7.73	13	10	75	85	325	17	[illegible]	4.10		0.68
31		5.24		25	168		250		[illegible]	4.97		0.60
Total	72	129	434	202	2,010	5,606	2,663	1,383	439	145	91	35
Mean	2.40	4.16	14	6.52	65	187	86	46	14	4.68	3.25	1.13
Max.	5.78	12	28	25	198	551	325	155	21	9.38	5.51	1.79
Min.	1.24	1.40	4.50	2.90	18	57	21	16	9.38	2.90	1.79	0.60
Runoff - mcm.	6.221	11.146	37.498	17.453	173.664	484.368	230.083	119.[illegible]	37.[illegible]	12.528	7.882	3.024

WATER YEAR 1965: Max. 551 Min. 0.60 Mean 36 Annual Runoff 1,141.258 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 5	10.00	63.76	592	Oct. 30	14.00	62.92	366

WATER YEAR 1965
YOM RIVER BASIN

Ngao River at Ngao Bridge, Lampang (Y. 13)

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

Drainage Area: 382 sq. km. referred to AMS. Map. 1:50,000

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 266.79 m. (M.S.L.)

Bench Mark:
- Location: BM. PCCXIV, located infront of Ngao Police Station.
- Elevation: + 279.250 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adquate to represent the mean daily value.

Period of Available Gage Records: 1957 to date.

Rating Operation:
- Period of Rating: 1957 – 58.
- Rated by Float: –
- Rated by Current Meter: 1957 – 58.

Stability of Channel Regimes: Stable, no shifting is made for years without actual rating.

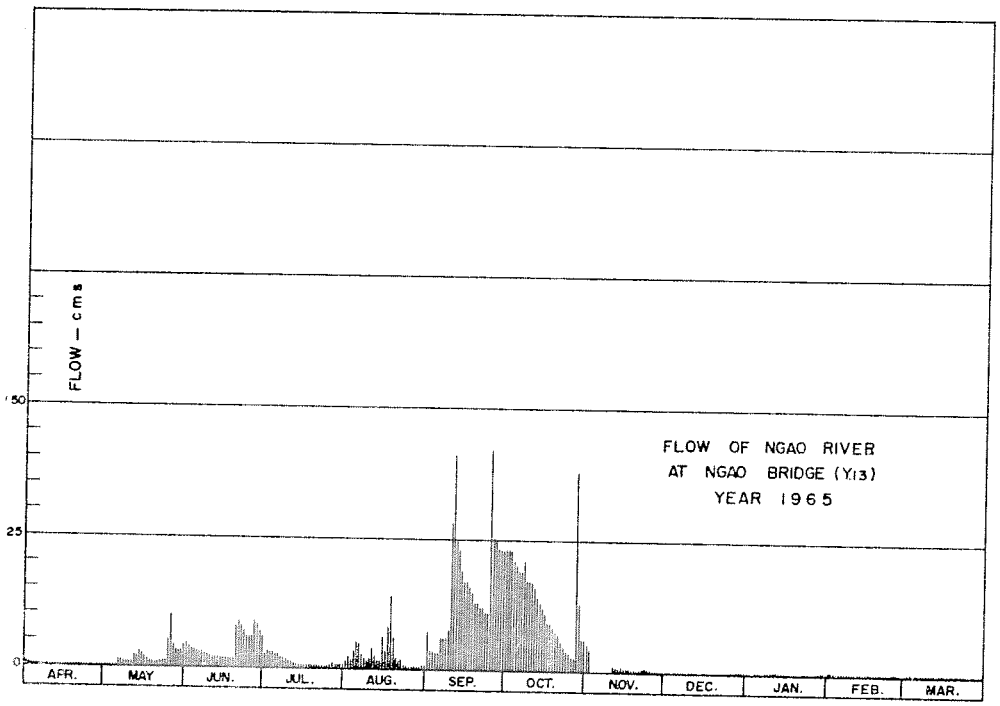
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage–discharge relationship is defined by discharge measurements made during 1957 – 58. There is no diversion above the station, except those of local people. No adjustment for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	267.07	226.95	267.33	267.24	267.15	267.43	267.75	267.36	266.95	266.94	267.02	266.90
2	.02	.96	.32	.28	.22	.29	.75	.32	.96	.94	.01	.94
3	266.99	.97	.29	.28	.17	.29	.75		.96	.93	266.99	.94
4	.99	.97	.29	.27	.29	.27	.73		.96	.96	.99	.93
5	.98	.99	.27	.24	.36	.27	.72		.96	.96	.99	.92
6	266.97	267.14	267.27	267.24	267.35	267.39	267.96		266.97	266.94	266.98	266.91
7	.97	.13	.27	.21	.24	.39	.69		.96	.93	.98	.90
8	.96	.11	.24	.19	.19	.39	.73		.93	.96	.97	.90
9	.96	.10	.22	.18	.17	.44	.67		.93	.97	.97	.90
10	.96	.10	.22	.17	.19	.83	.66		.94	.97	.97	.90
11	266.96	267.09	267.19	267.14	267.31	267.97	267.66	267.11	266.95	266.98	266.96	266.90
12	.96	.21	.19	.12	.24	.79	.64	.09	.96	.97	.95	.90
13	.96	.19	.19	.09	.17	.76	.61	.06	.93	.96	.95	.90
14	.96	.28	.19	.09	.15	.69	.59	.10	.89	.94	.94	.90
15	.95	.25	.19	.07	.40	.66	.56	.07	.89	.94	.93	.90
16	266.95	267.20	267.19	267.07	267.28	267.66	267.53	267.04	266.89	266.92	266.93	266.89
17	.95	.16	.18	.07	.45	.64	.49	.02	.90	.92	.93	.89
18	.95	.14	.18	.05	.61	.62	.49	.01	.90	.91	.93	.89
19	.95	.11	.18	.05	.38	.59	.46	.01	.90	.92	.93	.92
20	.95	.09	.45	.04	.23	.59	.43	266.99	.90	.95	.93	.92
21	266.96	267.11	267.49	267.04	267.17	267.57	267.42	266.99	266.90	266.94	266.93	266.93
22	.96	.11	.46	.03	.19	.57	.37	267.08	.92	.94	.93	.93
23	.96	.12	.44	.03	.10	.54	.34	.09	.92	.93	.93	.91
24	.99	.12	.39	.02	.03	.54	.30	.06	.93	.91	.94	.89
25	.98	.35	.39	.02	.02	.98	.29	.04	.93	.91	.94	.89
26	266.98	267.51	267.39	267.09	267.03	267.79	267.24	266.99	266.98	266.92	266.94	266.89
27	.98	.32	.49	.12	.03	.79	.22	.98	.98	.92	.94	.88
28	.97	.27	.47	.09	.02	.76	.94	.99	.99	.96	.93	.88
29	.96	.27	.44	.10	.01	.76	.59	.99	.99	.98		.88
30	.96	.26	.39	.10	.08	.76	.39	.97	.99	.97		.88
31		.32		.09	.24		.39		.97	.95		.88
Mean	266.97	267.16	267.31	267.12	267.21	267.60	267.55		266.94	266.94	266.95	266.90
Max.	267.07	267.51	267.49	267.28	267.61	267.97	267.96		266.99	266.98	267.02	266.94
Min.	266.95	266.95	267.18	267.02	267.01	267.27	267.22		266.89	266.91	266.93	266.88

WATER YEAR 1965 : Max. - m. Min. 266.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.35	4.58	2.84	1.60	7.36	23	5.36	0.35	0.32	0.60	0.20
2	0.60	0.38	4.32	3.48	2.52	3.64	23	4.32	0.38	0.32	0.55	0.32
3	0.47	0.41	3.64	3.48	1.84	3.64	23		0.38	0.29	0.47	0.32
4	0.47	0.41	3.64	3.32	3.64	3.32	21		0.38	0.38	0.47	0.29
5	0.44	0.47	3.32	2.84	5.36	3.32	20		0.38	0.38	0.47	0.26
6	0.41	1.48	3.32	2.84	5.10	6.14	19		0.41	0.32	0.44	0.23
7	0.41	1.36	3.32	2.36	2.84	6.14	19		0.38	0.29	0.44	0.20
8	0.38	1.12	2.84	2.08	2.08	6.14	21		0.29	0.38	0.41	0.20
9	0.38	1.00	2.52	1.96	1.84	7.68	17		0.29	0.41	0.41	0.20
10	0.38	1.00	2.52	1.84	2.08	28	17		0.32	0.41	0.41	0.20
11	0.38	0.95	2.08	1.48	4.06	41	17	1.12	0.35	0.44	0.38	0.20
12	0.38	2.36	2.08	1.24	2.84	25	16	0.95	0.38	0.41	0.35	0.20
13	0.38	2.08	2.08	0.95	1.84	23	14	0.80	0.29	0.38	0.35	0.20
14	0.38	3.48	2.08	0.95	1.60	19	13	1.00	0.18	0.32	0.32	0.20
15	0.35	3.00	2.08	0.85	6.40	17	12	0.85	0.18	0.32	0.29	0.20
16	0.35	2.20	2.08	0.85	3.48	17	11	0.70	0.18	0.26	0.29	0.18
17	0.35	1.72	1.96	0.85	8.00	16	9.28	0.60	0.20	0.26	0.29	0.18
18	0.35	1.48	1.96	0.75	14	15	9.28	0.55	0.20	0.23	0.29	0.18
19	0.35	1.12	1.96	0.75	5.88	13	8.32	0.55	0.20	0.26	0.29	0.26
20	0.35	0.95	8.00	0.70	2.68	13	7.36	0.47	0.20	0.35	0.29	0.26
21	0.38	1.12	9.28	0.70	1.84	12	7.04	0.47	0.20	0.32	0.29	0.29
22	0.38	1.12	8.32	0.65	2.08	12	5.62	0.90	0.26	0.32	0.29	0.29
23	0.38	1.24	7.68	0.65	1.00	11	4.84	0.95	0.26	0.29	0.29	0.23
24	0.47	1.24	6.14	0.60	0.65	11	3.80	0.80	0.29	0.23	0.32	0.18
25	0.44	5.10	6.14	0.60	0.60	42	3.64	0.70	0.29	0.23	0.32	0.18
26	0.44	10	6.14	0.95	0.65	25	2.84	0.47	0.44	0.26	0.32	0.18
27	0.44	4.32	9.28	1.24	0.65	25	2.52	0.44	0.44	0.26	0.32	0.16
28	0.41	3.32	8.64	0.95	0.60	23	38	0.47	0.47	0.38	0.29	0.16
29	0.38	3.32	7.68	1.00	0.55	23	13	0.47	0.47	0.44		0.16
30	0.38	3.16	6.14	1.00	0.90	23	6.14	0.41	0.47	0.41		0.16
31		4.32		0.95	0.70		6.14		0.41	0.35		0.16
Total	12	65	132	45	90	481	414		9.92	10	10	6.63
Mean	0.42	2.11	4.41	1.46	2.90	16	13		0.32	0.32	0.32	0.21
Max.	0.85	10	9.28	3.48	14	42	38		0.47	0.44	0.60	0.32
Min.	0.35	0.35	1.96	0.60	0.55	3.32	2.52		0.18	0.23	0.29	0.16
Runoff — mcm.	1.037	5.616	11.405	3.888	7.776	41.558	35.770		0.857	0.864	0.864	0.573

WATER YEAR 1965 : Max. Min. 0.16 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
YOM RIVER BASIN

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

Location: Lat. 17° – 35' – 42" N., Long 99° – 43' – 08" E., on the left bank, 50 meters from highway number 101 (Si Satchanalai Den Chai) about 44 km. from Si Satchanalai, Tambon Mae Sam, Amphoe Si Sachanalai, Sukhothai.

Drainage Area: 12,058 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: Infront of the station office of 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 24 readings which is adequate to represent its mean daily value.

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, shifting adjustment is negligible in flow computation due to its excellent stability.

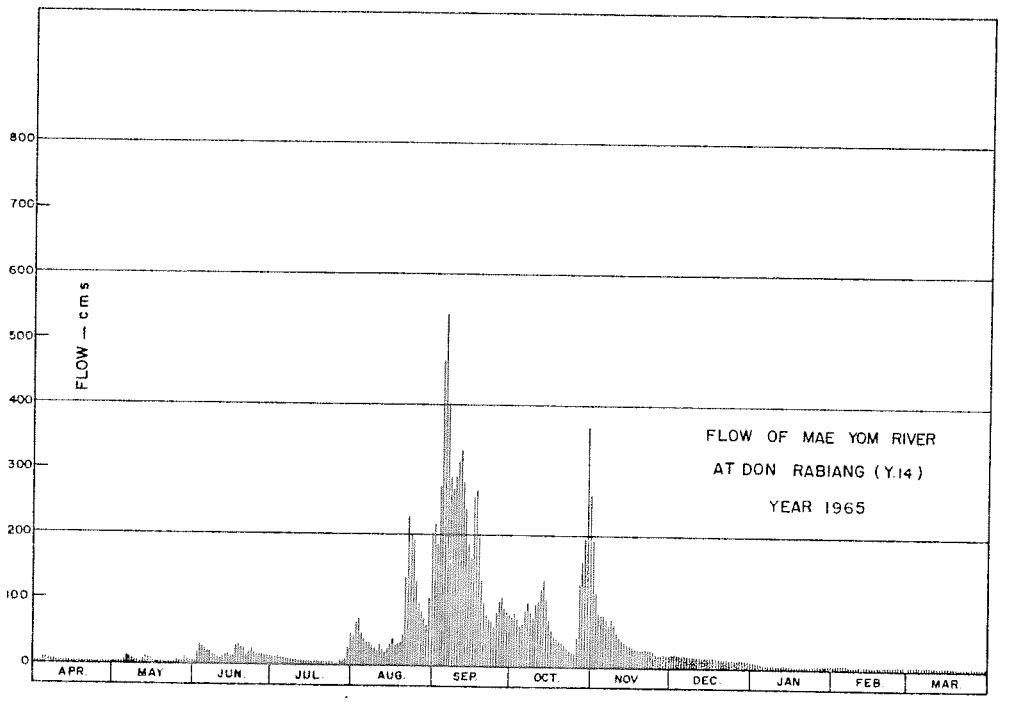
Overbank Flow Conditions: No overbank flow

General Description: Records are classified as good. Flow is diverted for irrigation of about 24,000 hectares above the gage site. The data presented is from actual observation at the gage site, not adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	65.70	65.68	65.82	66.03	66.54	68.25	66.94	67.84	66.23	65.99	65.87	65.68
2	.69	.66	.88	.00	.83	67.92	67.03	.33	.21	.97	.83	.68
3	.68	.67	66.38	.06	.93	68.21	66.91	.04	.19	.92	.82	.67
4	.89	.67	.35	.04	.64	69.33	.81	66.98	.18	.88	.83	.66
5	.89	.75	.28	.00	.50	70.19	.84	.99	.16	.85	.83	.65
6	66.65	66.04	66.22	65.98	66.44	69.36	67.06	66.86	66.17	65.84	65.82	65.65
7	.82	65.98	.20	.95	.43	68.70	.20	.81	.17	.84	.81	.64
8	.81	.89	.11	.93	.37	.62	.07	.92	.16	.83	.81	.64
9	.77	.82	.06	.91	.30	.74	66.93	.81	.15	.82	.80	.63
10	.74	.79	.05	.89	.26	.90	67.20	.66	.15	.82	.79	.63
11	65.73	65.76	66.02	65.87	66.41	69.05	67.21	66.57	66.15	65.81	65.79	65.63
12	.71	.73	65.98	.85	.21	68.72	.37	.52	.14	.83	.79	.65
13	.70	66.03	66.11	.83	.21	.32	.52	.49	.14	.83	.78	.64
14	.69	65.95	.12	.82	.33	67.95	.13	.44	.13	.81	.78	.65
15	.67	.91	.02	.81	.41	.61	66.87	.40	.13	.83	.77	.64
16	65.65	65.86	65.99	65.79	66.52	68.56	66.73	66.39	66.13	65.81	65.77	65.63
17	.65	.82	66.21	.77	.39	.64	.60	.36	.12	.84	.76	.62
18	.64	.81	.22	.76	.43	.05	.53	.34	.12	.84	.76	.61
19	.64	.80	.17	.76	.45	67.65	.49	.30	.10	.82	.75	.60
20	.69	.76	.12	.78	.57	.25	.46	.31	.06	.80	.74	.60
21	65.69	65.74	66.11	65.79	67.52	67.03	66.41	66.33	66.08	65.79	65.74	65.59
22	.64	.76	.21	.76	68.35	66.93	.33	.32	.07	.78	.73	.59
23	.63	.79	.27	.79	.12	.89	.26	.31	.03	.78	.72	.59
24	.66	.80	.19	.79	.07	.75	.22	.28	.02	.77	.71	.58
25	.68	.83	.13	.76	67.62	.90	.23	.23	.02	.77	.70	.58
26	65.69	65.82	66.13	65.75	67.19	67.18	66.59	66.17	66.03	65.77	65.69	65.58
27	.73	.79	.09	.88	.11	.28	67.49	.17	.02	.77	.68	.58
28	.72	.95	.10	.89	66.90	.10	.96	.23	.01	.78	.68	.58
29	.70	.91	.08	.96	.81	.04	68.11	.18	.01	.83		.57
30	.69	.86	.06	66.10	67.07	.03	69.27	.18	.00	.85		.57
31		.85		.64	68.10		68.44		.00	.87		.59
Mean	65.71	65.98	66.12	65.90	66.84	68.00	67.04	66.56	66.11	65.83	65.77	65.62
Max.	65.89	66.04	66.38	66.64	68.35	70.19	69.27	67.84	66.23	65.99	65.87	65.68
Min.	65.63	65.66	65.82	65.75	66.21	66.75	66.22	66.17	66.00	65.77	65.68	65.57

WATER YEAR 1965 : Max. 70.19 m. Min. 65.57 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.20	0.96	4.02	11	41	215	72	165	20	9.65	5.64	1.64
2	1.08	0.72	5.88	10	63	174	80	110	19	8.95	4.50	1.64
3	0.96	0.84	29	12	71	210	70	81	18	7.20	4.22	1.53
4	6.19	0.84	27	12	48	373	61	76	18	5.93	4.50	1.43
5	6.19	2.30	23	10	38	535	64	77	18	5.07	4.50	1.32
6	4.95	12	20	9.30	33	378	83	66	17	4.79	4.22	1.32
7	4.02	9.30	19	8.25	33	276	96	61	17	4.79	3.93	1.22
8	3.71	6.19	14	7.55	29	264	84	71	17	4.50	3.93	1.22
9	2.74	4.02	12	6.85	24	282	71	61	16	4.22	3.65	1.11
10	2.08	3.18	12	6.19	22	306	96	50	16	4.22	3.47	1.11
11	1.86	2.52	11	5.57	31	328	97	43	16	3.93	3.47	1.11
12	1.42	1.86	9.30	4.95	19	279	114	39	16	4.50	3.47	1.11
13	1.20	11	14	4.33	19	223	130	37	16	4.50	3.29	1.22
14	1.08	8.25	15	4.02	26	178	89	33	15	3.93	3.29	1.32
15	0.84	6.85	11	3.71	31	139	66	30	15	4.50	3.11	1.22
16	0.60	5.26	9.65	3.18	39	256	55	30	15	3.93	3.11	1.11
17	0.60	4.02	19	2.74	30	267	45	28	15	4.79	2.93	1.01
18	0.48	3.71	20	2.52	33	190	40	27	15	4.70	2.93	0.90
19	0.48	3.40	17	2.52	34	143	37	24	14	4.22	2.75	0.80
20	1.08	2.52	15	2.96	43	101	35	25	12	3.65	2.57	0.80
21	1.08	2.08	14	3.18	130	80	31	26	13	3.47	2.57	0.72
22	0.48	2.52	19	2.52	228	71	26	26	13	3.29	2.39	0.72
23	0.36	3.18	23	3.18	198	68	22	25	11	3.29	2.21	0.72
24	0.72	3.40	18	3.18	192	57	20	23	11	3.11	2.03	0.64
25	0.96	4.33	15	2.52	140	69	20	20	11	3.11	1.85	0.64
26	1.08	4.02	15	2.30	95	94	44	17	11	3.11	1.74	0.64
27	1.86	3.18	14	5.88	87	104	126	17	11	3.11	1.64	0.64
28	1.64	8.25	14	6.19	69	86	179	20	10	3.29	1.64	0.64
29	1.20	6.85	13	8.60	61	81	197	18	10	4.50		0.56
30	1.08	5.26	12	14	84	80	363	18	10	5.07		0.56
31		4.95		48	196		240		10	5.64		0.72
Total	53	138	464	229	2,187	5,907	2,753	1,344	446	143	89	31
Mean	1.77	4.44	15	7.39	70	197	89	45	14	4.61	3.20	1.01
Max.	6.19	12	29	48	228	535	363	165	20	9.65	5.64	1.64
Min.	0.36	0.72	4.02	2.30	19	57	20	17	10	3.11	1.64	0.56
Runoff - mcm.	4.579	11.923	40.090	19.786	188.957	510.365	237.859	116.122	38.534	12.355	7.690	2.678

WATER YEAR 1965 : Max. 535 Min. 0.36 Mean 38 Annual Runoff 1,190.938 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 5	07.00	70.38	575	Oct. 30	11.00	69.41	387

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Muang Nan (N. 1)

Location: Lat. 18° – 46' – 23" N., Long 100° – 46' – 51" E., infront of the house of the Governor, Amphoe Muang, Nan.

Drainage Area: 4,609 sq. km. referred to AMS Map 1:50,000.

Type of Gage: Water – stage recorder.

Zero Gage at Bottom at: + 192.18 m. (M.S.L.)

Bench Mark:
- Location: On right bank.
- Elevation: BM. 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– 56, 1962 to date.

Rating Operation:
- Period of Rating: 1954–56 at station of N. 1A about 1.5 kilometers upstream.
- Rated by Float:
- Rated by Current Meter: 1954 – 56.

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

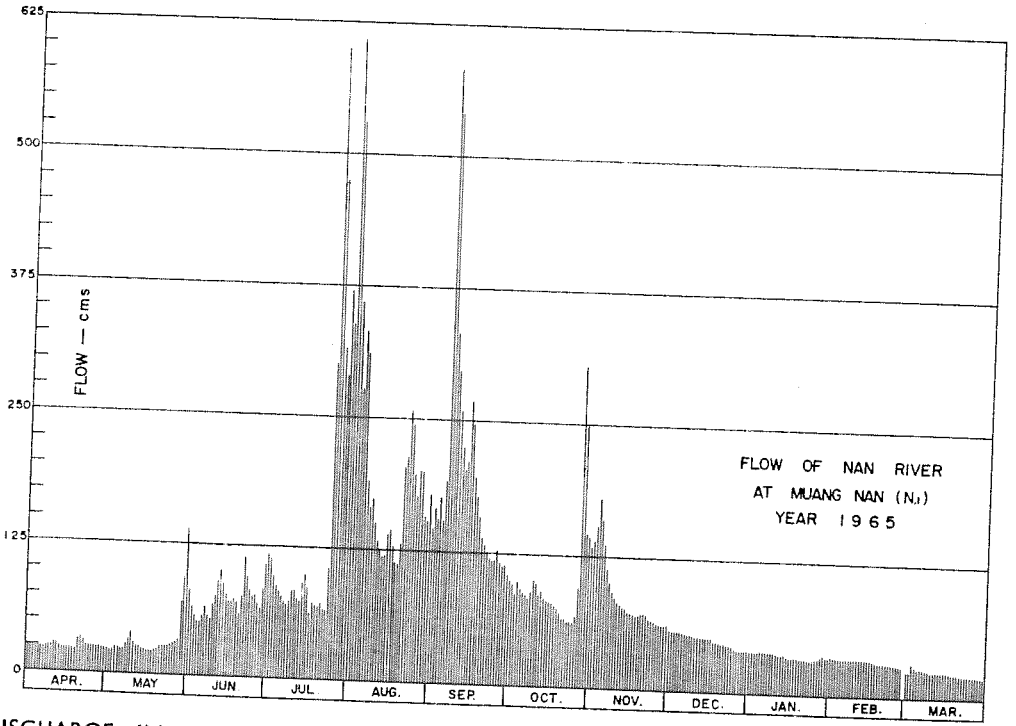
Overbank Flow Conditions: No overbank flow.

General Description: Gage hight record good, discharge record fair. Stage–discharge relationship is defined by discharge measurements made during 1954 – 56 at station of N. 1A, water–stage correlation at both stations are applicated for rating table. No diversions for irrigation above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	192.94	192.90	193.65	193.98	196.55	194.23	193.84	194.12	193.37	193.15	193.12	192.93
2	.93	.89	.48	.96	.26	.36	.80	.17	.36	.15	.11	.93
3	.93	.88	.35	.81	195.49	.29	.70	.27	.36	.15	.10	193.06
4	.92	.94	.32	.71	.03	.42	.82	.45	.36	.15	.10	.00
5	.92	.94	.32	.67	.36	.27	.76	.30	.36	.15	.09	192.98
6	192.92	192.92	193.38	193.62	195.23	194.53	193.71	194.14	193.35	193.15	193.08	192.97
7	.91	.93	.49	.56	194.51	196.47	.69	193.95	.34	.15	.08	.96
8	.91	193.00	.36	.54	.35	.30	.67	.84	.34	.14	.07	.95
9	.91	.08	.34	.56	.40	195.36	.73	.76	.33	.14	.07	.94
10	.93	.16	.51	.67	.27	.15	.84	.69	.32	.14	.08	.93
11	192.99	193.03	193.59	193.67	194.13	194.92	193.83	193.66	193.32	193.13	193.07	192.92
12	.97	192.98	.76	.59	.05	.73	.69	.64	.30	.13	.07	.91
13	.94	.96	.84	.56	193.99	.60	.74	.60	.29	.13	.07	.91
14	.91	.92	.74	.74	194.00	.69	.67	.59	.29	.13	.07	.91
15	.90	.90	.67	.81	.18	.99	.65	.56	.28	.10	.07	.91
16	192.90	192.89	193.55	193.70	194.21	194.85	193.64	193.55	193.28	193.09	193.07	192.91
17	.90	.88	.56	.60	.08	.57	.63	.54	.27	.09	.06	.90
18	.89	.87	.57	.56	193.95	.43	.60	.52	.25	.09	.05	.90
19	.89	.91	.55	.53	.93	.32	.57	.51	.24	.09	.04	.88
20	193.05	.90	.46	.51	194.10	.17	.52	.56	.24	.09	.03	.88
21	193.11	192.97	193.62	193.56	194.61	194.11	193.47	193.56	193.22	193.08	193.03	192.88
22	.05	.96	.95	.49	.67	.06	.46	.54	.22	.07	.02	.87
23	.00	.98	.80	.47	.93	.01	.45	.50	.21	.07	.01	.86
24	192.96	.97	.67	.89	.85	193.99	.44	.48	.21	.07	.01	.86
25	.95	193.00	.59	195.90	.57	194.00	.44	.47	.19	.47	.01	.86
26	192.94	193.03	193.62	196.52	194.42	194.08	193.50	193.45	193.17	193.07	193.01	192.85
27	.95	.04	.53	.04	.59	193.98	.77	.44	.16	.08	.01	.85
28	.94	.07	.47	195.26	.59	.93	195.20	.43	.15	.11	.00	.85
29	.93	.14	.68	.10	.31	.95	194.73	.43	.16	.13	–	.85
30	.91	.76	.90	.54	.27	.88	.23	.43	.16	.11	–	.84
31	–	194.18	–	.38	.45	–	.20	–	.15	.10	–	.84
Mean	192.94	193.03	193.58	194.09	194.59	194.52	193.77	193.70	193.27	193.11	193.06	192.91
Max.	193.11	194.18	193.95	196.52	196.55	196.47	195.20	194.45	193.37	193.15	193.12	193.06
Min.	192.89	192.87	193.32	193.47	193.93	193.88	193.44	193.43	193.15	193.07	193.00	192.84

WATER YEAR 1965 : Max. 196.55 m. Min. 192.84 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	25	23	81	117	608	147	101	133	56	39	37	24
2	24	22	66	114	530	167	97	140	56	39	36	24
3	24	22	55	98	359	156	87	154	56	39	35	32
4	23	25	52	88	276	176	22	180	56	39	35	28
5	23	25	52	83	332	154	92	157	56	39	34	26
6	23	23	57	78	310	192	88	135	55	39	33	27
7	23	24	66	72	189	584	86	113	54	39	33	26
8	23	28	56	71	165	541	83	101	54	38	33	25
9	23	23	54	73	173	332	89	92	53	38	33	25
10	24	40	68	83	154	296	101	86	52	38	33	24
11	27	30	76	83	134	256	99	82	52	37	33	24
12	27	26	92	76	126	224	86	80	52	37	33	23
13	25	26	101	72	118	203	90	77	51	37	33	23
14	23	23	90	90	119	212	83	76	51	37	33	23
15	23	23	83	98	140	268	81	72	50	35	33	23
16	23	22	72	87	144	244	80	72	50	34	33	23
17	23	22	72	67	128	195	79	71	50	34	32	23
18	22	21	74	72	113	178	77	69	47	34	31	23
19	22	23	72	70	112	160	74	68	47	34	31	22
20	31	23	64	68	131	140	69	72	47	34	30	22
21	36	27	78	72	204	133	65	72	45	33	30	22
22	31	26	113	67	213	126	64	71	45	33	30	21
23	28	27	97	65	258	120	63	67	44	23	29	10
24	26	27	83	106	244	118	62	66	44	23	29	20
25	25	28	76	322	198	119	62	65	43	33	29	20
26	25	30	78	600	176	128	67	63	41	33	29	20
27	25	31	70	475	201	117	93	62	40	33	29	20
28	25	23	65	314	201	112	304	62	39	36	28	20
29	24	38	85	288	159	113	224	62	40	37	–	20
30	23	92	108	370	154	106	147	62	40	36	–	19
31	–	140	–	337	180	–	143	–	39	35	–	19
Total	749	1,003	2,256	4,676	6,549	6,017	3,035	2,682	1,505	1,115	897	711
Mean	25	32	75	151	211	200	98	89	48	36	32	23
Max.	36	140	113	600	608	584	304	180	56	39	37	32
Min.	22	21	52	65	112	106	62	62	39	33	28	19
Runoff – mcm.	64.714	86.659	194.91[illegible]	404.006	565.834	519.869	262.224	231.725	130.032	96.336	77.501	61.430

WATER YEAR 1965 : Max. 608 Min. 19 Mean 85 Annual Runoff 2,695.248 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 1	06.00	196.55	608				

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 17° – 37' – 13" N., Long 100° – 06' – 19" E., infront of Uttaradit Kindergarten, downtown Amphoe Muang, Uttaradit.

Drainage Area: 16,776 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water – stage recorder.

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

Bench Mark:
- Location: At Uttaradit Kindergarten, north of railway station.
- Elevation: + 62.154 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1962 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is negligible in flow computation due to its excellent stability.

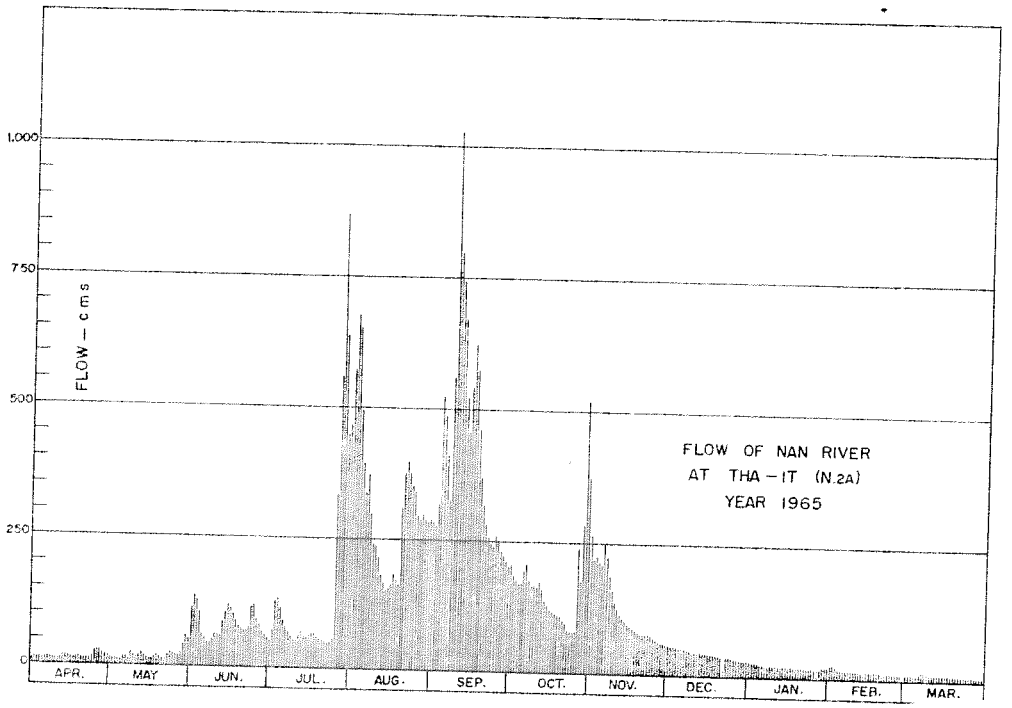
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	*53.05	*53.09	54.16	53.58	56.59	*55.27	54.82	55.14	53.65	53.30	53.26	53.03
2	*.04	*.05	.36	.80	57.00	*.23	.69	54.88	.64	.29	.28	.30
3	*.03	*.02	.31	54.30	56.90	*.44	.63	.93	.62	.29	.21	.02
4	*.03	*.00	.11	.35	.27	*56.40	.59	.87	.61	.29	.17	.01
5	*.03	*.00	53.71	.19	55.82	*.24	.60	.84	.59	.25	.15	.01
6	*53.03	*53.12	53.64	53.97	55.54	*55.91	54.74	55.08	53.59	53.24	53.13	53.03
7	*.06	*.11	.52	.86	.72	*.49	.83	54.92	.58	.22	.12	.13
8	*.07	*.05	.52	.79	*.34	*56.55	.64	.71	.57	.21	.12	.12
9	*.03	*.24	.64	.68	*.01	58.15	.57	.51	.56	.23	.11	.05
10	*.01	*.16	.73	.61	*.01	57.42	.57	.36	.54	.23	.11	.03
11	*53.01	*53.12	53.68	53.60	*54.88	57.24	54.54	54.25	53.52	53.22	53.10	53.01
12	*.02	*.16	.68	.70	*.68	56.97	.63	.17	.51	.20	.09	.00
13	*.12	*.25	.93	.79	*.57	.39	.54	.12	.51	.20	.09	.00
14	*.12	*.16	54.13	.71	*.47	.09	.36	.08	.50	.20	.09	.00
15	*.09	*.11	.25	.65	*.50	*.47	.31	.01	.49	.20	.09	.00
16	*53.06	*53.05	54.22	53.72	*54.54	*56.80	54.23	53.98	53.48	53.20	53.09	53.00
17	*.02	*.04	.10	.77	*.69	.60	.20	.95	.47	.18	.09	.00
18	*.05	*.13	53.97	.76	*.64	.12	.18	.92	.45	.18	.06	.00
19	*.09	*.18	.87	.67	*.55	55.71	.15	.88	.44	.17	.06	52.98
20	*.04	*.11	.83	.63	*55.41	.45	.15	.85	.42	.16	.07	.98
21	*53.04	*53.07	53.81	53.62	*55.74	55.25	54.09	53.85	53.42	53.17	53.07	52.97
22	*.05	*.06	.78	.57	*.83	.11	.01	.85	.41	.16	.07	.97
23	*.02	*.20	.86	.54	*.73	.05	53.91	.85	.40	.16	.07	.96
24	*.11	*.26	54.22	.57	*.63	.02	.87	.83	.39	.15	.06	.95
25	*.28	*.23	.25	.63	*.58	.14	.85	.78	.37	.15	.04	.95
26	*53.28	*53.16	54.00	55.52	*55.33	55.09	53.88	53.75	53.37	53.12	53.03	52.94
27	*.29	*.15	53.91	56.54	*.29	54.97	55.03	.73	.35	.10	.03	.94
28	*.22	*.26	.78	57.65	*.34	.94	54.60	.70	.33	.12	.03	.94
29	*.18	*.48	.72	56.84	*.29	.86	55.27	.68	.32	.21		.94
30	*.13	*.67	.64	.07	*.26	.79	56.37	.67	.32	.21		.94
31		*.60		.15	*.29		55.72		.32	.21		.95
Mean	53.09	53.17	53.91	54.28	55.37	55.87	54.53	54.20	53.47	53.20	53.10	53.00
Max.	53.29	53.67	54.36	57.65	57.00	58.15	56.37	55.14	53.65	53.30	53.28	53.13
Min.	53.01	53.00	53.52	55.54	54.47	54.79	53.85	53.67	53.32	53.10	53.03	52.94

WATER YEAR 1965 : Max. 58.15 m. Min. 52.94 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14	16	112	51	571	285	205	261	58	30	27	13
2	14	14	137	72	678	277	184	216	58	29	29	13
3	13	13	130	129	651	316	175	224	56	29	24	13
4	13	12	106	135	494	524	169	214	55	29	21	12
5	13	12	63	115	394	487	170	209	52	26	20	12
6	13	18	58	91	336	414	192	250	52	26	19	13
7	15	18	47	79	372	326	207	222	51	24	18	19
8	15	14	47	71	297	561	176	188	51	24	18	18
9	13	26	58	61	238	1,027	166	157	50	25	18	14
10	12	21	65	55	238	796	166	137	48	25	18	13
11	12	18	61	53	216	744	162	122	47	24	17	12
12	13	21	61	62	183	670	175	113	46	23	16	12
13	18	26	86	71	166	522	162	107	46	23	16	12
14	18	21	108	63	152	454	137	103	45	23	16	12
15	16	18	122	58	156	541	130	95	44	23	16	12
16	15	14	119	64	162	624	120	92	43	23	16	12
17	13	14	105	69	184	574	116	88	43	22	16	12
18	14	19	91	68	176	460	114	85	41	22	15	12
19	16	22	80	60	163	370	110	81	40	21	15	11
20	14	18	75	57	310	318	110	77	39	21	15	11
21	14	15	73	56	377	281	104	77	39	21	15	11
22	14	15	70	51	397	256	95	77	38	21	15	11
23	13	23	79	48	375	245	84	77	37	21	15	10
24	18	27	119	51	354	240	80	75	36	20	15	10
25	29	25	112	57	344	261	77	70	35	20	14	10
26	29	21	94	332	295	252	81	67	35	18	13	9.60
27	29	20	84	559	288	231	240	65	33	17	13	9.60
28	24	27	70	865	297	226	170	62	32	18	13	9.60
29	22	43	64	635	288	212	285	61	31	24		9.60
30	19	60	58	449	283	200	517	60	31	24		9.60
31		53		467	288		372		31	24		10
Total	495	684	2,564	5,054	9,723	12,694	5,251	3,732	1,343	720	483	368
Mean	16	22	85	163	314	423	169	124	43	23	17	12
Max.	29	60	137	865	678	1,027	517	261	58	30	29	19
Min.	12	12	47	48	152	200	77	60	31	17	13	9.60
Runoff – MCM.	42.768	59.098	221.530	436.666	840.076	1,096.762	453.686	322.445	116.035	62.208	41.731	31.795

WATER YEAR 1965 : Max. 1,027 Min. 9.60 Mean 118 Annual Runoff 3,724.790 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9	12.00	58.26	1,064				

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Phichai, Uttaradit (N. 4)

Location: Lat. 17° – 16' – 20" N., Long 100° – 04' – 52" E., near Phichai railway station, Uttaradit.

Drainage Area: 19,297 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 44.00 m. (M.S.L.)

Bench Mark:
- Location: Located near railway station to the north of the building
- Elevation: + 53.327 m. (M.S.L.)

Gage Reading Frequency: 3 – time daily readings at 06.00, 12.00, and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings which is adequate to represent mean daily value.

Period of Available Gage Records: 1946 – 47, 1951 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is not included because only 11 discharge measurements were made by moving crew in 1965, and the deviations of rating points from annual rating curve are small.

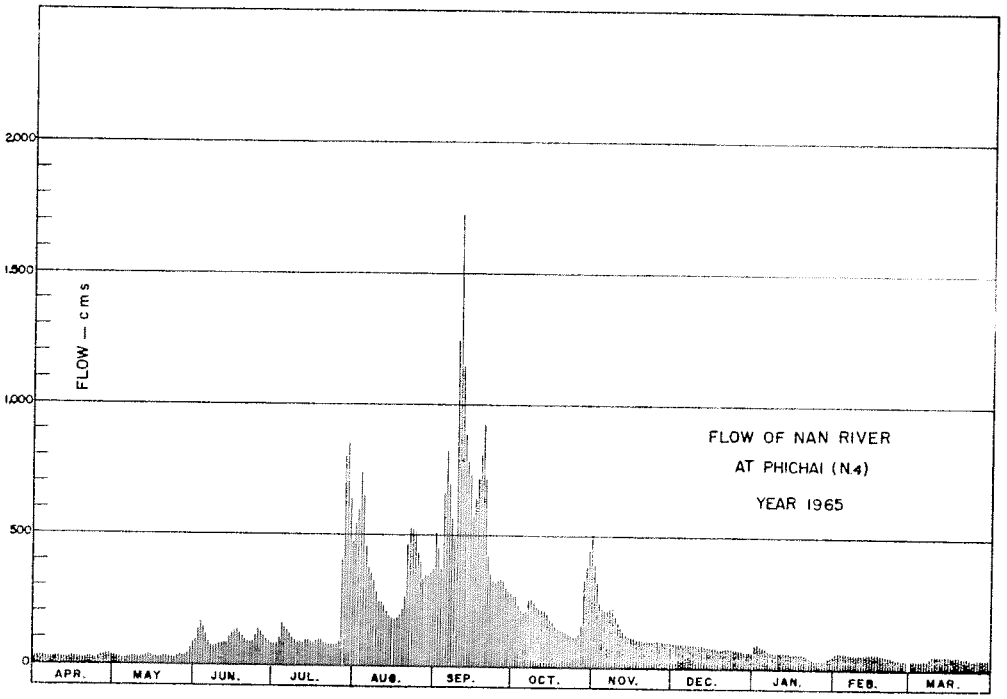
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	45.18	45.23	45.84	45.71	48.36	48.25	47.02	47.47	45.85	45.82	45.54	45.28
2	.18	.21	46.18	.70	.62	47.88	.00	.32	.84	.82	.53	.28
3	.17	.18	.39	.92	49.18	.38	46.69	46.71	.83	.72	.53	.28
4	.17	.15	.21	46.35	48.76	48.91	.64	.66	.83	.72	.51	.28
5	.15	.14	45.93	.31	47.67	49.51	.59	.68	.82	.65	.51	.28
6	45.15	45.20	45.74	46.14	47.61	48.89	46.66	46.69	45.82	45.59	45.51	45.30
7	.16	.20	.67	45.99	.46	.34	.95	.74	.81	.59	.50	.30
8	.16	.27	.61	.85	.55	.05	.96	.75	.81	.58	.50	.35
9	.20	.20	.68	.78	.12	51.04	.84	.56	.79	.57	.50	.48
10	.18	.20	.72	.76	46.85	52.51	.74	.35	.79	.56	.49	.47
11	45.15	45.21	45.73	45.71	46.84	49.85	46.68	46.23	45.78	45.56	45.48	45.45
12	.13	.24	.74	.70	.77	.75	.68	.15	.77	.55	.48	.44
13	.12	.24	.77	.81	.63	.24	.74	.09	.77	.53	.53	.43
14	.14	.32	.98	.84	.52	.24	.57	.04	.75	.53	.53	.43
15	.22	.29	46.07	.77	.44	83.34	.42	.00	.70	.53	.53	.43
16	45.20	45.25	46.17	45.73	46.45	48.84	46.35	45.97	45.69	45.51	45.50	45.42
17	.18	.19	.17	.79	.49	49.11	.25	.95	.69	.50	.50	.41
18	.15	.16	.07	.84	.53	.37	.20	.94	.69	.50	.50	.41
19	.13	.18	45.97	.84	.66	.87	.19	.93	.68	.48	.42	.41
20	.15	.27	.89	.75	.72	48.78	.16	.92	.67	.42	.42	.40
21	45.19	45.22	45.80	45.72	48.03	47.57	46.11	45.92	45.67	45.41	45.41	45.40
22	.18	.18	.79	.66	.31	.42	.05	.91	.65	.30	.40	.39
23	.16	.18	.79	.65	.31	.30	.02	.91	.64	.30	.35	.39
24	.16	.18	.95	.63	.29	.30	.00	.90	.62	.29	.30	.39
25	.21	.28	46.20	.68	47.83	.31	.02	.89	.61	.29	.30	.38
26	45.29	45.31	46.13	45.76	47.69	47.40	46.06	45.88	45.60	45.28	45.30	45.37
27	.29	.28	45.98	47.80	.33	.31	.38	.87	.59	.28	.29	.36
28	.32	.23	.90	49.41	.45	.16	47.36	.87	.57	.33	.29	.35
29	.36	.33	.83	.60	.43	.13	.58	.87	.56	.36		.34
30	.24	.50	.76	48.76	.50	.06	.93	.86	.56	.39		.33
31		.74		47.95	.45		48.23		.55	.43		.33
Mean	45.18	45.25	45.92	46.29	47.45	48.54	46.65	46.23	45.70	45.49	45.37	45.37
Max.	45.36	45.74	46.39	49.60	49.18	52.51	48.23	47.47	45.85	45.82	45.54	45.48
Min.	45.12	45.14	45.61	45.63	46.44	47.06	46.00	45.86	45.55	45.28	45.29	45.28

WATER YEAR 1965 : Max. 52.51 m. Min. 45.12 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	30	34	98	82	535	510	270	351	99	95	64	38
2	30	33	140	81	595	433	267	324	98	95	63	38
3	30	30	170	107	733	334	217	221	97	83	63	38
4	30	28	144	164	627	663	209	213	97	83	61	38
5	28	27	109	158	390	820	201	216	95	75	61	38
6	28	32	86	135	378	659	213	217	95	69	61	40
7	29	32	78	116	349	530	259	225	94	69	60	40
8	29	38	71	99	366	468	261	227	94	68	60	45
9	32	32	79	91	288	1,253	241	197	92	67	60	58
10	30	32	83	88	243	1,727	225	164	92	66	59	57
11	28	33	85	82	241	911	216	147	91	66	58	55
12	26	35	86	81	230	884	216	136	89	65	58	53
13	26	35	89	94	208	748	225	129	89	63	63	53
14	27	42	115	98	190	748	198	122	87	63	63	53
15	34	39	126	89	178	530	175	117	81	63	63	53
16	32	36	139	85	179	647	164	113	80	61	60	52
17	30	31	139	92	185	715	150	111	80	60	60	51
18	28	29	126	98	192	782	143	110	80	60	60	51
19	26	30	113	98	213	917	142	109	79	58	52	51
20	28	38	104	87	222	632	138	107	78	52	52	50
21	31	34	93	83	464	370	131	107	78	51	51	50
22	30	30	92	77	523	342	123	106	75	40	50	49
23	29	30	92	75	523	320	120	106	74	40	45	39
24	29	30	111	73	519	320	117	105	72	39	40	39
25	33	38	143	79	422	322	120	104	71	39	40	48
26	39	41	134	88	394	328	125	103	70	38	40	47
27	39	38	115	416	325	322	169	101	69	38	39	46
28	42	34	105	793	347	295	331	101	67	43	39	45
29	46	43	97	844	343	289	372	101	66	46		44
30	35	60	88	627	356	277	443	100	66	49		43
31		86		447	347		506		65	53		43
Total	934	1,130	3,250	5,627	11,105	18,106	6,687	4,590	2,560	1,857	1,545	1,445
Mean	31	36	108	181	358	603	216	153	83	60	55	47
Max.	46	86	170	844	733	1,727	506	351	99	95	64	58
Min.	26	27	71	73	178	277	117	100	65	38	39	38
Runoff — mcm.	80.698	97.632	280.800	486.173	959.472	1,569.024	577.757	396.576	221.184	160.445	133.489	124.848

WATER YEAR 1965 : Max. 1,727 Min. 26 Mean 161 Annual Runoff 5,083.430 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 10	06.00	52.62	1,766				

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Muang Phitsanulok (N. 5)

Location: Lat. 16° – 48' – 35" N., Long 100° – 15' – 37" E., 50 meters downstream from the Ice Factory, Amphoe Muang, Phitsanulok.

Drainage Area: 25,207 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 34.00 m. (M.S.L.)

Bench Mark:
Location: BM. – R.I.D. 1506, located on the left bank along the gage line,
Elevation: + 44.739 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

Period of Available Gage Records: 1922 – 28, 1950 to date.

Rating Operation:
Period of Rating: 1953 – 56, 1965 to date.
Rated by Float: –
Rated by Current Meter: 1953 – 56, 1965 to date.

Stability of Channel Regimes: Stable, shifting adjustment is not included because only 13 discharge measurements were made by moving crew in 1965, and its stability is good.

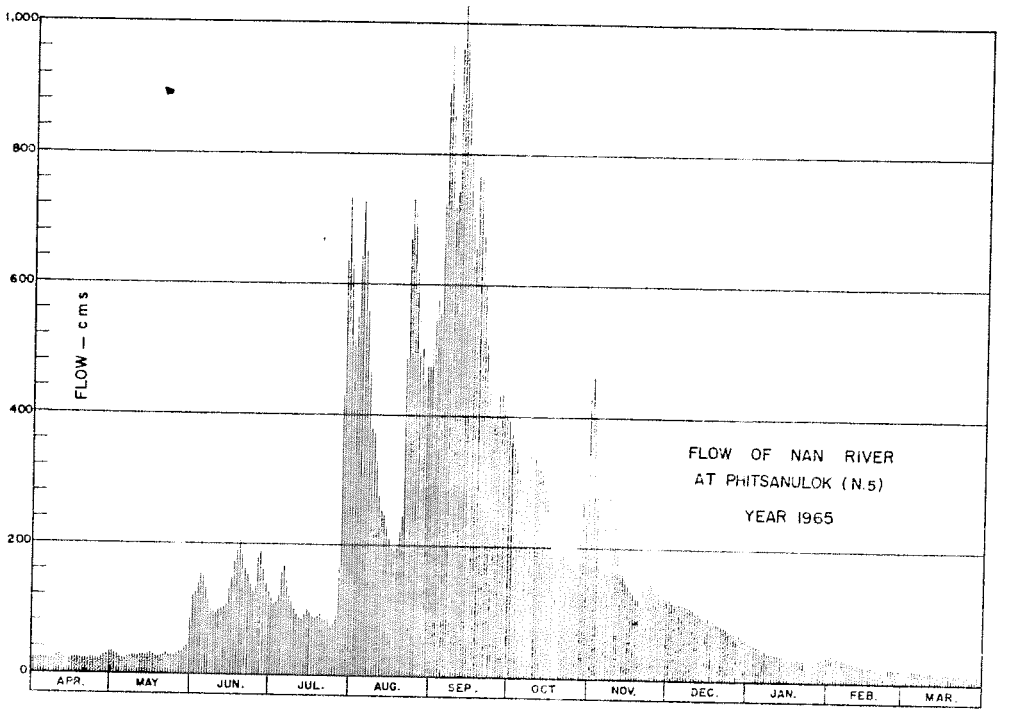
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	34.69	34.88	36.04	36.04	39.25	39.55	38.26	38.95	36.06	35.29	34.99	34.61
2	.68	.82	.10	35.91	.42	.74	.14	.36	.04	.26	35.01	.60
3	.67	.78	.25	.94	40.03	.57	37.98	37.74	.02	.23	34.99	.60
4	.66	.73	.48	36.06	.66	40.42	.88	.44	.01	.20	.98	.59
5	.65	.69	.37	.43	.33	41.66	.61	.40	35.99	.18	.95	.59
6	34.64	34.66	36.16	36.54	39.53	42.06	37.55	37.45	35.99	35.13	34.90	34.58
7	.64	.76	35.92	.34	38.74	41.46	.72	.53	.98	.10	.85	.58
8	.65	.78	.79	.11	38.32	40.66	38.06	.59	.95	.07	.82	.57
9	.66	.78	.78	35.94	.29	.33	.10	.40	.93	.03	.80	.57
10	.76	.78	.74	.84	37.79	42.11	.07	.12	.91	.00	.78	.56
11	34.84	34.76	35.82	35.75	37.41	42.37	37.97	36.85	35.88	34.99	34.76	34.56
12	.78	.81	.84	.65	.34	41.95	.88	.63	.86	.98	.75	.55
13	.69	.80	.87	.63	.27	.66	.86	.48	.84	.96	.73	.55
14	.64	.77	.87	.73	.07	.04	.73	.38	.82	.94	.72	.54
15	.65	.82	36.14	.81	36.92	40.39	.51	.30	.81	.94	.71	.52
16	34.70	34.88	36.34	35.74	36.82	40.19	37.38	36.23	35.77	34.93	34.70	34.51
17	.71	.82	.61	.64	.78	.92	.09	.17	.75	.92	.69	.50
18	.71	.77	.73	.65	.83	.95	36.88	.11	.72	.91	.68	.49
19	.67	.72	.92	.71	37.03	.42	.76	.07	.69	.89	.67	.48
20	.67	.76	.74	.74	.18	39.76	.72	.05	.65	.88	.66	.47
21	34.66	34.78	36.50	35.68	38.18	39.14	36.85	36.26	35.62	34.87	34.65	34.46
22	.65	.84	.43	.62	40.06	38.76	.80	.31	.59	.87	.65	.45
23	.71	.80	.22	.61	.70	.56	.70	.30	.55	.86	.65	.45
24	.69	.78	.11	.53	.57	.44	.59	.36	.53	.85	.64	.44
25	.66	.76	.19	.52	39.94	.60	.55	.26	.51	.84	.64	.43
26	34.64	34.80	36.64	35.72	39.52	38.74	36.51	36.27	35.47	34.83	34.63	34.43
27	.70	.90	.79	.92	.14	.76	.47	.21	.44	.82	.62	.42
28	.78	.96	.52	38.60	38.85	.60	.80	.16	.43	.86	.62	.41
29	.78	.98	.29	40.61	39.06	.55	37.46	.13	.38	.94		.40
30	.88	35.05	.18	.70	.05	.44	.38	.09	.35	.96		.39
31		.62		39.95	.25		38.69		.31	.94		.39
Mean	34.70	34.83	36.25	36.37	38.62	40.13	37.42	36.75	35.74	34.98	34.76	34.51
Max.	34.88	35.62	36.92	40.70	40.70	42.37	38.69	38.95	36.06	35.29	35.01	34.61
Min.	34.64	34.66	35.74	35.52	36.78	38.44	36.47	36.05	35.31	34.82	34.62	34.39

WATER YEAR 1965 : Max. 42.37 m. Min. 34.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23	33	119	119	501	546	365	459	120	59	40	19
2	23	30	124	107	527	575	349	378	119	57	41	19
3	22	28	137	110	622	549	329	300	117	55	40	19
4	22	25	160	120	723	684	317	264	116	53	39	18
5	21	23	149	155	669	893	284	259	114	52	37	18
6	21	22	129	166	543	966	277	265	114	48	34	18
7	21	27	108	146	430	858	297	275	113	46	32	18
8	21	28	97	125	372	723	339	282	110	45	30	17
9	22	28	96	110	369	669	344	259	109	42	29	17
10	27	28	93	101	306	976	340	228	107	40	28	17
11	31	27	100	94	260	1,028	327	198	104	40	27	17
12	28	29	101	86	252	945	317	175	103	39	26	17
13	23	29	104	84	245	893	314	160	101	38	25	17
14	21	27	104	92	223	787	299	150	100	37	25	16
15	21	30	128	99	206	679	272	142	99	37	24	15
16	24	33	146	93	195	647	257	136	96	36	24	15
17	24	30	173	85	191	766	225	130	94	36	23	14
18	24	27	186	86	196	771	202	125	92	35	23	14
19	22	25	206	91	218	684	189	121	89	34	22	13
20	22	27	187	93	235	579	185	119	86	33	22	13
21	22	28	162	88	354	486	198	138	84	33	21	12
22	21	31	155	84	627	432	193	143	81	33	21	12
23	24	29	135	83	729	404	182	142	78	32	21	12
24	23	28	125	76	708	388	171	148	76	32	21	12
25	22	27	132	76	607	410	167	138	75	31	21	11
26	21	29	176	92	542	430	163	139	72	31	20	11
27	24	34	192	108	486	432	159	134	70	30	20	11
28	28	38	164	410	445	410	193	129	69	32	20	10
29	28	39	141	715	474	430	266	127	66	37		10
30	33	43	131	729	473	388	257	123	63	38		9.70
31		84		609	501		423		61	37		9.70
Total	709	966	4,160	5,232	13,229	19,401	8.200	5,786	2,898	1,228	756	451
Mean	24	31	139	169	427	647	264	193	93	40	27	14
Max.	33	84	206	729	729	1,028	423	459	120	59	41	19
Min.	21	22	93	76	191	388	159	119	61	30	20	9.70
Runoff - mcm.	61.258	83.462	359.424	452.045	1,142.986	1,676.246	708,480	499.910	250.367	106.099	65.318	38.966

WATER YEAR 1965 : Max. 1,028 Min. 9.70 Mean 172 Annual Runoff 5,444.582 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 11	06.00	42.47	1,048	Sept. 6	06.00	42.13	980

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Tha Pla, Uttaradit (N. 6A)

Location: Lat. 17° – 47' – 50" N., Long 100° – 31' – 56" E., 600 meters upstream from the office of Amphoe Tha Pla, Uttaradit.

Drainage Area: 13,086 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 73.000 m. (M.S.L.)

Bench Mark:
Location: BM. – R.I.D. 1, located on the right bank near the gage,
Elevation: + 90.517 m. (M.S.L.)

Gage Reading Frequency: 24 – time daily readings.

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

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1954 to date.
Rated by Float: –
Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Very stable, shifting adjustment is negligible in flow computation, due to its adequacy of channel stability.

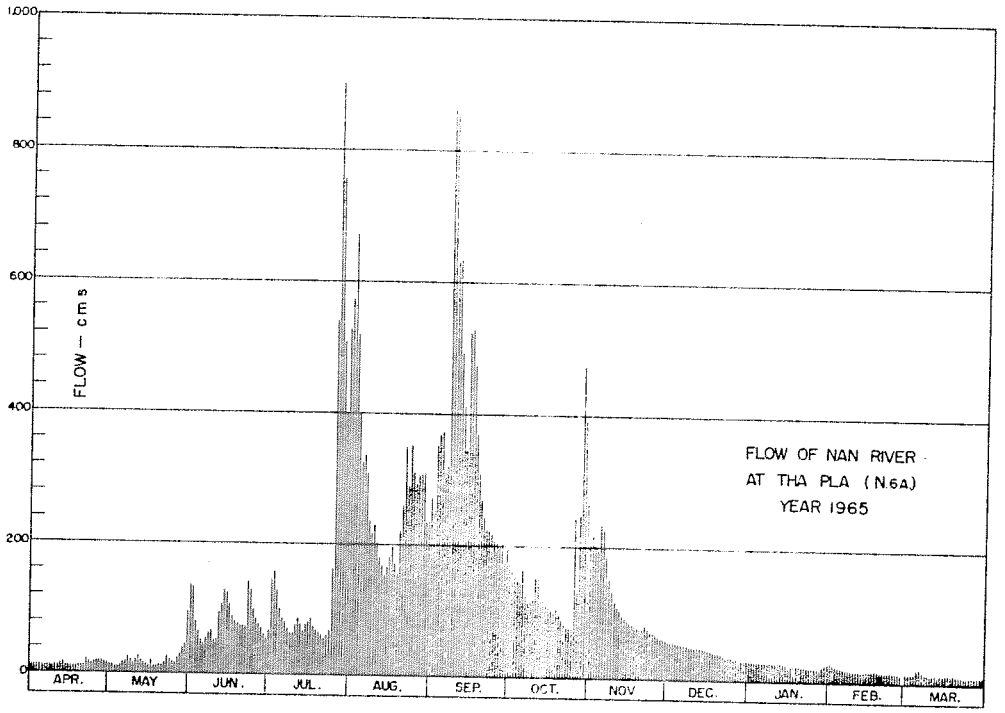
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	74.56	74.58	76.04	75.41	78.88	77.09	76.33	76.59	75.24	74.87	74.83	74.59
2	.56	.54	.03	76.11	79.38	76.83	.24	.71	.23	.85	.79	.58
3	.56	.52	75.51	.22	78.64	77.66	.21	.58	.22	.85	.77	.58
4	.56	.51	.31	75.96	77.95	.75	.13	.53	.20	.84	.75	.59
5	.55	.61	.12	.72	.48	.78	.12	.83	.20	.84	.73	.72
6	74.58	74.64	75.10	75.55	77.55	77.43	76.32	75.65	75.19	74.83	74.70	74.71
7	.56	.59	.23	.49	.35	.43	.11	.44	.18	.83	.69	.64
8	.55	.79	.29	.36	76.86	80.24	.04	.19	.16	.83	.68	.61
9	.53	.70	.33	.30	.71	.20	.00	.01	.15	.82	.67	.59
10	.54	.65	.16	.30	.81	79.20	.05	.89	.14	.80	.66	.57
11	74.55	74.77	75.18	75.44	76.59	79.21	76.21	75.80	75.13	74.81	74.65	74.57
12	.63	.83	.66	.57	.42	78.50	.17	.74	.12	.81	.65	.57
13	.66	.72	.78	.44	.30	.01	75.95	.68	.11	.85	.65	.57
14	.60	.64	.96	.35	.18	77.75	.91	.63	.10	.83	.64	.56
15	.58	.59	.93	.46	.32	78.64	.81	.59	.09	.79	.64	.55
16	74.55	74.56	75.75	75.50	76.41	78.68	75.77	75.55	75.07	74.78	74.63	74.55
17	.53	.69	.59	.57	.55	.38	.76	.52	.06	.77	.63	.54
18	.53	.58	.50	.41	.33	77.76	.73	.49	.04	.77	.62	.53
19	.56	.55	.46	.35	.22	.36	.76	.47	.02	.76	.63	.53
20	.55	.58	.45	.31	.78	.08	.66	.46	.02	.76	.62	.53
21	74.58	74.56	75.42	75.25	77.02	76.87	75.57	75.47	75.01	74.75	74.61	74.52
22	.55	.63	.41	.21	.63	.75	.50	.50	74.99	.73	.61	.51
23	.73	.78	76.09	.26	.23	.74	.46	.47	.98	.73	.60	.51
24	.68	.73	75.97	.36	.65	.71	.43	.41	.97	.73	.60	.50
25	.63	.67	.70	76.25	.36	.61	.42	.37	.96	.73	.59	.50
26	74.67	74.65	75.56	78.75	76.95	76.59	76.90	75.35	74.94	74.72	74.58	74.49
27	.69	.77	.45	80.36	77.05	.56	75.99	.32	.92	.72	.61	.49
28	.68	.92	.39	79.78	.06	.58	76.92	.29	.91	.76	.60	.49
29	.65	75.04	.27	78.58	.07	.35	78.38	.28	.91	.79		.48
30	.62	.09	.21	77.93	76.83	.51	77.98	.26	.89	.80		.48
31		.67		78.68	.84		.04		.88	.81		.48
Mean	74.59	74.71	75.53	76.20	77.43	77.64	76.09	75.67	75.06	74.79	74.63	74.55
Max.	74.69	75.67	76.09	80.36	79.38	80.24	78.38	76.83	75.24	74.87	74.83	74.71
Min.	74.53	74.51	75.10	75.21	76.18	76.35	75.42	75.26	74.88	74.72	74.58	74.48

WATER YEAR 1965 : Max. 80.36 m. Min. 74.48 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	14	137	74	566	272	172	204	59	31	29	15
2	13	13	136	145	670	235	161	219	58	30	26	14
3	13	12	83	158	520	354	157	202	58	30	25	14
4	13	11	65	128	400	368	148	196	56	29	24	15
5	13	16	50	102	327	373	146	235	56	29	23	22
6	14	17	48	86	337	319	170	211	55	29	21	22
7	13	15	58	81	308	319	145	185	54	29	20	17
8	13	26	63	69	239	868	137	155	53	29	20	16
9	12	21	67	64	219	858	132	133	52	28	19	15
10	13	18	53	64	232	632	138	120	51	27	19	14
11	13	25	54	77	204	634	157	110	50	28	18	14
12	17	29	96	88	182	494	152	104	50	28	18	14
13	19	22	108	77	168	410	126	98	49	30	18	14
14	15	17	128	68	154	368	122	94	48	29	17	13
15	14	15	124	78	170	520	111	90	47	26	17	13
16	13	13	105	82	181	527	107	86	46	26	17	13
17	12	20	90	88	198	473	106	84	45	25	17	13
18	12	14	82	74	172	370	103	81	43	25	16	12
19	13	13	78	68	158	309	106	79	42	25	17	12
20	13	14	77	65	228	270	96	78	42	25	16	12
21	14	13	75	60	262	241	88	79	41	24	16	12
22	13	17	74	57	349	224	82	82	39	23	16	11
23	23	26	143	61	291	223	78	79	39	23	15	11
24	20	23	129	69	352	219	76	74	38	23	15	11
25	17	19	100	162	309	206	75	70	37	23	15	11
26	19	18	87	540	252	204	245	68	36	22	14	11
27	20	25	77	899	266	200	131	66	34	22	16	11
28	20	34	72	757	267	202	248	63	34	25	15	11
29	18	43	62	508	269	174	473	62	34	26		10
30	16	47	57	397	235	193	405	61	32	27		10
31		97		527	237		265		32	28		10
Total	451	707	2,578	5,773	8,722	11,059	4,858	3,468	1,410	824	519	413
Mean	15	23	86	186	281	369	157	116	45	27	18	13
Max.	20	97	143	899	670	868	473	235	59	31	29	22
Min.	12	11	48	57	154	174	75	61	32	22	14	10
Runoff - mcm.	38.966	61.085	222.739	498.787	753.581	955.498	419.731	299.635	121.824	71.194	44.842	35.683

WATER YEAR 1965 : Max. 899 Min. 10 Mean 112 Annual Runoff 3 527,885 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 8	18.00	80.98	1,061	Jul. 27	17.00	80.94	1,050

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Muang Phichit (N. 7)

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

Drainage Area: 28,191 sq. km. referred to AMS. Map. 1:50,000 .

Type of Gage: Staff gage .

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

Bench Mark:
Location: BM. – R.I.D. 4, located on the right bank, 78 meter downstream from the gage,
Elevation: + 37.273 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings, which is adequate for its mean daily value.

Period of Available Gage Records: 1934 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is not included because 21 discharge measurements were made by moving crew and deviations of rating points from annual rating curve are very small.

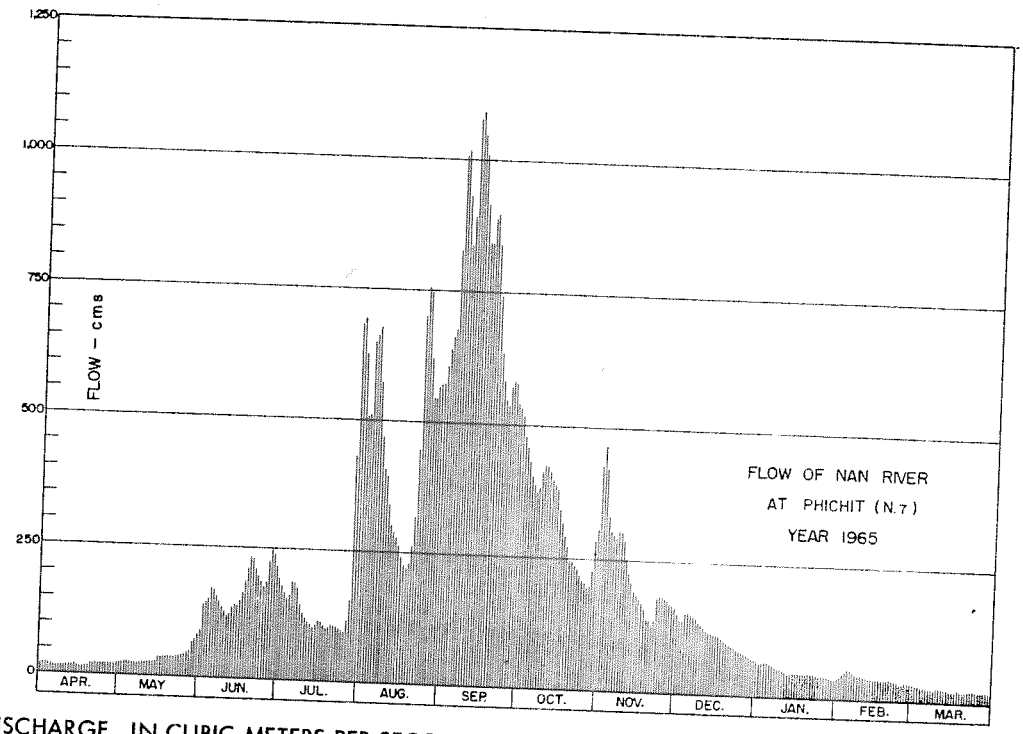
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	26.25	26.40	27.69	29.07	32.69	32.56	31.97	31.31	28.50	27.26	26.75	26.59
2	.29	.42	28.36	28.91	31.90	.77	.71	.60	.30	.20	.91	.54
3	.32	.44	.45	.71	.93	.91	.55	.25	.36	.22	27.00	.52
4	.27	.45	.52	.60	32.84	33.02	.35	30.50	.55	.25	.04	.48
5	.20	.42	.81	.66	.92	.87	.13	.23	.54	.22	.07	.45
6	26.20	26.41	28.77	29.00	33.01	34.80	30.98	30.18	28.50	27.20	27.05	26.44
7	.20	.40	.60	28.97	32.33	.85	.88	.15	.47	.17	26.98	.40
8	.20	.41	.48	.85	31.65	.42	.96	.27	.37	.08	.93	.41
9	.20	.45	.35	.47	.17	33.94	31.21	.26	.26	.01	.90	.44
10	.20	.44	.20	.22	.06	34.22	.30	.10	.17	.00	.89	.45
11	26.20	26.43	28.10	28.04	30.60	35.13	31.29	29.75	28.13	26.99	26.84	26.44
12	.20	.44	.15	27.98	.26	.20	.21	.47	.08	.95	.80	.40
13	.23	.46	.33	.93	.10	.00	.08	.27	.04	.94	.79	.39
14	.27	.45	.40	.80	.00	34.84	.00	.06	.02	.90	.77	.35
15	.24	.48	.37	.92	29.86	.35	30.94	28.98	27.99	.91	.75	.30
16	26.20	26.70	28.50	28.00	29.64	33.97	30.60	28.90	27.97	26.95	26.75	26.32
17	.20	.71	.71	27.98	.47	.97	.37	.80	.95	.94	.74	.35
18	.20	.73	29.00	.88	.40	34.21	.15	.65	.88	.92	.71	.40
19	.22	.74	.31	.81	.46	.26	29.95	.48	.83	.90	.72	.37
20	.29	.73	.53	.83	.87	33.95	.70	.33	.79	.88	.75	.35
21	26.33	26.70	29.49	27.90	30.40	33.40	29.64	28.20	27.74	26.87	26.74	26.37
22	.35	.71	.26	.88	31.78	32.75	.58	.32	.69	.89	.72	.37
23	.34	.73	.12	.81	33.15	.45	.48	.90	.65	.90	.68	.36
24	.38	.77	28.97	.80	.47	.18	.36	.92	.59	.88	.62	.34
25	.31	.81	.87	.77	.43	.10	.24	.92	.50	.84	.68	.31
26	26.30	26.84	29.01	27.74	32.67	32.32	29.18	28.90	27.49	26.82	26.62	26.30
27	.32	.87	.46	28.04	.16	.40	.08	.88	.44	.80	.65	.31
28	.35	.97	.70	.57	.16	.36	.12	.82	.40	.79	.64	.32
29	.37	27.27	.55	31.31	.30	.18	.46	.76	.38	.75		.30
30	.40	.36	.35	33.03	.34	.06	30.07	.67	.30	.73		.32
31		.50		.10	.34		.31		.28	.70		.34
Mean	26.27	26.68	28.81	28.85	31.64	33.62	30.52	29.50	27.95	26.98	26.80	26.39
Max.	26.40	27.50	29.70	33.10	33.47	35.20	31.97	31.60	28.55	27.26	27.07	26.59
Min.	26.20	26.40	27.69	27.74	29.40	32.06	29.08	28.20	27.28	26.70	26.62	26.30

WATER YEAR 1965 : Max. 35.20 m. Min. 26.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19	25	93	194	626	606	517	427	150	68	40	33
2	21	26	140	181	507	639	479	465	136	64	47	31
3	22	27	146	165	511	662	458	419	140	65	52	30
4	20	27	151	157	650	679	432	330	153	67	54	28
5	17	26	173	161	663	826	404	301	153	65	56	27
6	17	25	170	188	678	1,007	386	296	150	64	55	27
7	17	25	157	186	571	1,017	374	293	148	62	51	25
8	17	25	149	176	471	930	383	305	141	57	48	25
9	17	27	139	148	409	839	414	304	133	53	47	27
10	17	27	129	130	395	892	426	288	127	52	46	27
11	17	26	122	118	341	1,076	425	254	124	51	44	27
12	17	27	125	114	304	1,091	414	228	121	49	42	25
13	18	27	138	110	288	1,049	398	210	118	49	42	25
14	20	27	143	101	278	1,015	388	193	116	47	41	23
15	19	28	141	109	264	916	381	186	114	47	40	21
16	17	38	150	115	244	844	341	180	113	49	40	22
17	17	38	165	114	228	844	316	172	111	49	40	23
18	17	39	188	107	222	890	293	161	107	48	38	25
19	18	40	214	102	227	899	273	149	103	47	39	24
20	21	39	234	103	265	840	249	138	100	46	40	23
21	22	38	230	108	319	743	244	129	97	46	40	24
22	23	38	210	107	489	636	238	137	93	46	39	24
23	23	39	198	102	700	589	229	180	91	47	37	23
24	22	41	186	101	755	549	218	182	87	46	34	23
25	21	43	178	99	748	537	208	182	82	44	33	21
26	21	44	189	97	623	570	203	180	81	43	34	21
27	22	46	227	118	546	582	194	178	78	42	36	21
28	23	50	249	155	546	576	198	174	76	42	35	22
29	24	68	235	427	567	549	227	169	75	40		21
30	25	74	217	681	573	531	285	162	70	39		22
31		82		692	573		309		69	38		23
Total	591	1,152	5,186	5,466	14,581	23,423	10,304	6,942	3,459	1,572	1,190	763
Mean	20	37	173	176	470	781	332	231	112	51	42	25
Max.	25	82	249	692	755	1,091	517	465	150	68	56	33
Min.	17	25	93	97	222	531	194	129	69	38	33	21
Runoff - mcm.	51.062	99.533	448.070	472.262	1,259.798	2,023.747	890.266	599.789	288.858	135.821	102.816	65.923

WATER YEAR 1965 : Max. 1,091 Min. 17 Mean 204 Annual Runoff 6,447.946 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 11	18.00	35.20	1,091				

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 16° – 01' – 50" N., Long 100° – 22' – 53" E., Near Bang Mun Nak Market, Amphoe Bang Mun Nak, Phichit.

Drainage Area: 32,791 sq. km. referred to AMS. 1:50,000.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 20.00 m. (M.S.L.)

Bench Mark:
Location: BM. – H.S./R.I.D. location near the house of the gage observer located at the gage site.
Elevation: + 29.266 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1951 to date.

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

Stability of Channel Regimes: Unstable during high floods. Shifting adjustment is not included in flow computation because only few discharge measurements were made by moving crew in 1965. Proper judgement for shifting could not be done.

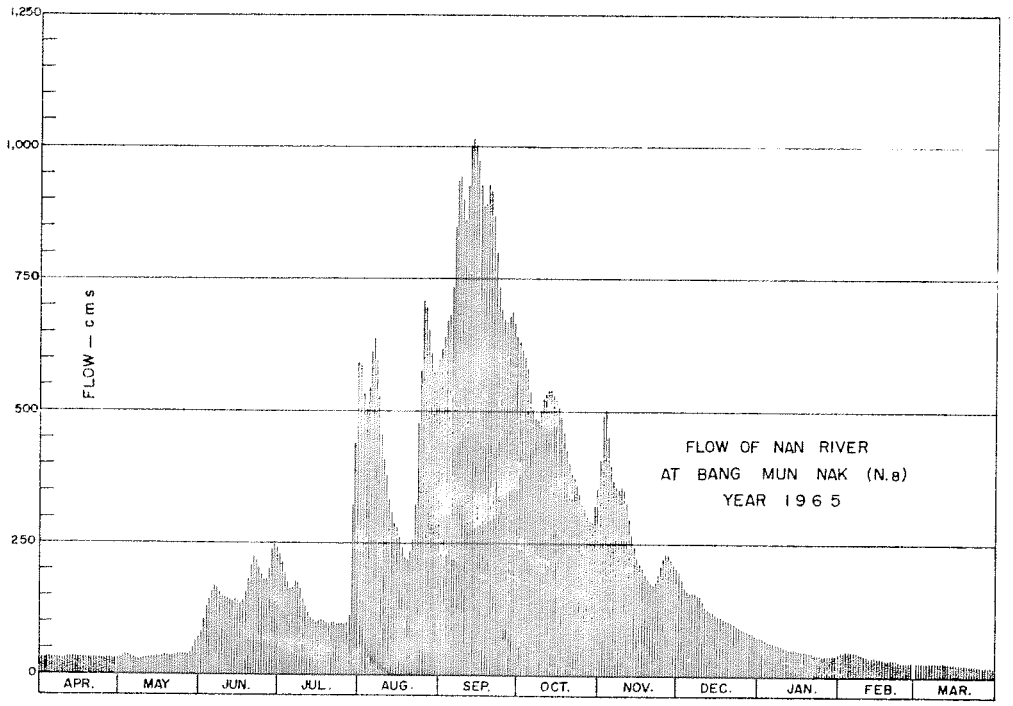
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21.11	21.09	21.93	23.76	26.61	26.80	26.88	25.32	23.42	21.83	21.34	21.00
2	.10	.17	22.29	.59	.23	.94	.79	.96	.26	.81	.38	20.99
3	.09	.21	.67	.40	.02	27.12	.69	26.05	.11	.78	.40	.97
4	.08	.18	.83	.20	.32	.20	.56	25.68	.03	.75	.39	.96
5	.07	.14	.99	.06	.76	.51	.26	.26	22.99	.72	.38	.95
6	21.06	21.11	23.15	23.08	26.92	28.15	26.04	25.01	23.00	21.70	21.36	20.95
7	.05	.07	.11	.21	.67	.57	25.93	24.92	22.99	.67	.35	.95
8	.04	.04	22.99	.19	.21	.61	.89	.90	.96	.62	.33	.95
9	.03	.02	.93	.02	25.69	.41	26.03	.92	.90	.58	.28	.95
10	.06	.06	.88	22.81	.34	.23	.17	.87	.70	.54	.24	.95
11	21.09	21.11	22.83	22.63	25.07	28.53	26.24	24.66	22.68	21.51	21.22	20.95
12	.10	.13	.82	.50	24.71	.86	.29	.39	.62	.50	.20	.93
13	.12	.12	.80	.39	.49	.91	.29	.13	.56	.47	.18	.93
14	.12	.12	.83	.31	.32	.86	.22	23.91	.53	.45	.16	.91
15	.11	.14	.79	.25	.21	.74	.17	.74	.49	.44	.14	.89
16	21.10	21.15	22.74	22.27	24.06	28.54	26.07	23.60	22.43	21.42	21.13	20.88
17	.09	.17	.81	.31	23.87	.35	25.94	.48	.40	.40	.12	.86
18	.08	.21	23.00	.30	.70	.39	.73	.39	.37	.39	.10	.85
19	.07	.22	.25	.24	.65	.54	.49	.29	.32	.39	.09	.85
20	.06	.19	.54	.20	.81	.50	.28	.21	.30	.39	.07	.84
21	21.05	21.17	23.70	22.23	24.03	28.26	25.13	23.17	22.29	21.37	21.05	20.81
22	.05	.19	.65	.25	.64	27.88	.03	.20	.24	.33	.03	.80
23	.05	.21	.51	.22	25.84	.51	24.92	.36	.18	.30	.01	.78
24	.05	.24	.37	.20	26.54	.27	.82	.55	.14	.29	.00	.76
25	.05	.26	.27	.21	27.37	.14	.68	.70	.09	.28	20.99	.74
26	21.05	21.24	23.26	22.18	27.29	27.12	24.56	23.78	22.06	21.26	20.99	20.71
27	.05	.23	.49	.20	.02	.18	.45	.76	.03	.24	21.00	.70
28	.05	.33	.83	.41	26.74	.23	.36	.68	.01	.26	.00	.70
29	.05	.51	.98	24.62	.51	.10	.33	.58	21.97	.27		.70
30	.05	.68	.91	25.56	.52	26.95	.61	.51	.92	.24		.70
31		.84		26.62	.68		.87		.89	.29		.70
Mean	21.07	21.21	23.07	22.92	25.57	27.95	25.64	24.14	22.51	21.45	21.18	20.86
Max.	21.12	21.84	23.98	26.62	27.37	28.91	26.88	26.05	23.42	21.83	21.40	21.00
Min.	21.03	21.02	21.93	22.18	23.65	26.80	24.33	23.17	21.89	21.24	20.99	20.70

WATER YEAR 1965 : Max. 28.91 m. Min. 20.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33	33	78	230	588	618	631	406	196	72	45	29
2	33	36	103	213	531	640	616	492	182	71	47	29
3	33	38	132	194	501	669	600	505	169	69	48	28
4	32	37	145	176	545	682	581	453	162	67	47	27
5	32	35	159	165	612	734	536	398	159	65	47	27
6	31	33	172	166	637	848	504	369	159	64	46	27
7	31	32	169	177	597	935	488	358	159	62	45	27
8	31	31	159	176	528	944	483	355	156	59	44	27
9	30	30	153	161	455	899	502	358	151	57	42	27
10	31	31	149	143	408	864	522	352	140	55	40	27
11	33	33	145	129	376	926	533	327	133	53	39	27
12	33	34	144	118	333	1,002	540	297	128	53	38	26
13	34	34	142	110	308	1,015	540	268	123	51	37	26
14	34	34	145	105	289	1,002	530	245	121	50	36	25
15	33	35	142	100	277	974	522	228	118	50	35	25
16	33	35	138	102	261	928	508	214	113	49	34	24
17	33	36	143	105	241	887	490	202	111	48	34	24
18	32	38	159	104	224	895	460	194	109	47	33	23
19	32	39	181	100	219	928	427	185	105	47	33	23
20	31	37	208	97	235	919	401	177	104	47	32	23
21	31	36	224	99	257	869	383	174	103	46	31	22
22	31	37	219	100	324	799	371	176	100	44	30	21
23	31	38	205	98	476	734	360	191	96	43	29	21
24	31	40	192	97	578	693	346	209	93	42	29	20
25	31	41	183	98	710	672	329	224	89	42	29	19
26	31	40	182	96	696	669	316	232	87	41	29	18
27	31	39	203	97	653	679	303	230	85	40	29	18
28	31	44	237	112	608	687	294	222	84	41	29	18
29	31	53	252	322	573	666	290	212	81	41		18
30	31	63	245	437	575	642	321	205	77	40		18
31		72		590	599		352		75	42		18
Total	986	1,194	5,108	5,017	14,214	24,419	14,079	8,458	3,768	1,598	1,037	[illegible]
Mean	31	38	170	162	458	814	454	282	121	51	[illegible]	23
Max.	34	72	252	590	710	1,015	631	505	196	72	[illegible]	[illegible]
Min.	30	30	78	96	219	618	290	174	75	40	29	[illegible]
Runoff — MCM.	85.190	103.162	441.331	433.469	1,228.090	2,109.801	1,216.426	730.771	325.555	138.057	89.597	63.245

WATER YEAR 1965 : Max. 1,015 Min. 18 Mean 221 Annual Runoff 6,964.704 m.n.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 12	18.00	28.93	1,026	Aug. 25	27.42	27.42	718

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 16° - 13' - 03" N., Long 100° - 25' - 26" E., on the right bank, about 1 kilometer downstream of Wat Thao Prasat, Tambon Huai Ket, Amphoe Taphan Hin, Phichit.

Drainage Area: 30,673 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 22.41 m. (M.S.L.)

Bench Mark:
- Location: BM. - 1, located on the left bank at the gage site.
- Elevation: + 33.173 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

Period of Available Gage Records: 1954 - 59, 1962 to date.

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

Stability of Channel Regimes: Unstable during high floods. Periodic rating curves are used in flow computation.

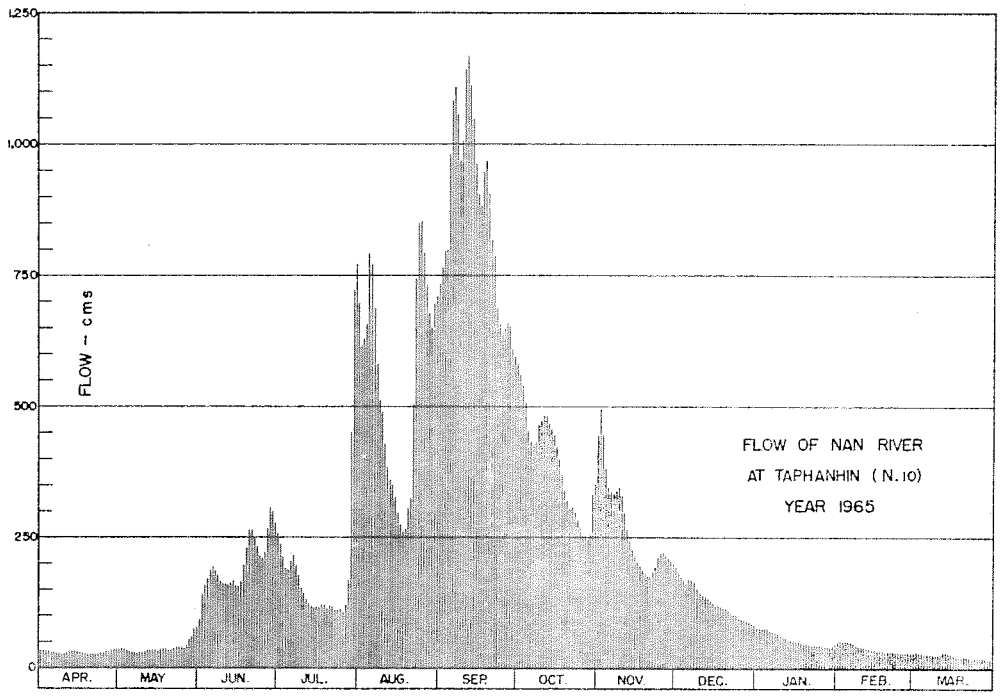
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Discharge measurements were made by moving crew in 1965. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	23.45	23.50	24.39	25.99	28.91	29.12	28.81	27.82	25.46	24.14	23.77	23.41
2	.41	.54	.92	.80	.42	.32	.67	28.21	.35	.13	.78	.43
3	.40	.54	25.09	.59	.51	.48	.54	27.84	.24	.11	.79	.40
4	.39	.50	.20	.42	.97	.50	.29	.33	.22	.10	.78	.38
5	.38	.45	.37	.36	29.47	30.20	27.89	26.99	.20	.08	.77	.37
6	23.37	23.41	25.45	25.53	29.35	31.03	27.75	26.89	25.25	24.06	23.73	23.36
7	.36	.40	.32	.62	28.84	.17	.68	.88	.21	.04	.70	.34
8	.35	.38	.27	.46	.20	30.91	.74	.93	.18	.00	.68	.32
9	.34	.41	.17	.21	27.77	.42	.98	.98	.04	23.97	.65	.31
10	.35	.44	.12	.01	.61	.63	28.08	.81	24.93	.94	.63	.32
11	23.39	23.45	25.10	24.85	27.24	31.37	28.10	26.53	24.89	23.91	23.60	23.38
12	.42	.46	.10	.78	26.89	.48	.09	.23	.87	.87	.58	.41
13	.45	.46	.13	.67	.75	.38	27.99	.01	.83	.83	.55	.40
14	.43	.49	.14	.63	.67	.23	.93	25.84	.78	.82	.54	.38
15	.41	.50	.05	.61	.49	30.96	.83	.70	.72	.78	.53	.35
16	23.40	23.48	25.07	24.64	26.31	30.65	27.66	25.60	24.65	23.76	23.52	23.31
17	.39	.54	.22	.69	.12	.54	.46	.51	.67	.74	.51	.29
18	.38	.57	.47	.68	.02	.83	.20	.43	.64	.73	.50	.27
19	.36	.55	.75	.62	.08	.93	26.95	.37	.60	.72	.50	.27
20	.35	.49	26.03	.60	.38	.65	.75	.31	.60	.71	.49	.28
21	23.35	23.50	26.04	24.64	26.51	30.23	26.61	25.30	24.56	23.70	23.48	23.27
22	.36	.51	25.92	.61	27.72	29.76	.60	.41	.49	.69	.46	.24
23	.37	.55	.79	.57	29.19	.47	.55	.51	.45	.68	.45	.22
24	.39	.59	.61	.58	.79	.29	.41	.70	.41	.71	.44	.20
25	.41	.61	.57	.55	.79	.19	.27	.77	.39	.69	.42	.21
26	23.43	23.55	25.68	24.51	29.46	29.25	26.14	25.77	24.35	23.67	23.42	23.20
27	.45	.59	26.05	.68	.12	.31	.10	.72	.33	.65	.41	.19
28	.49	.80	.37	25.18	28.80	.26	.05	.67	.30	.63	.40	.18
29	.50	.91	.31	27.36	.65	.00	.21	.63	.27	.61		.17
30	.48	24.10	.15	29.06	.90	28.91	.86	.55	.22	.64		.18
31		.15		.34	29.01		27.02		.19	.73		.18
Mean	23.40	23.56	25.46	25.31	27.99	30.18	27.36	26.20	24.75	23.83	23.57	23.29
Max.	23.50	24.15	26.37	29.34	29.79	31.48	28.81	28.21	25.46	24.14	23.79	23.43
Min.	23.34	23.38	24.39	24.51	26.02	28.91	26.05	25.30	24.19	23.61	23.40	23.17

WATER YEAR 1965 : Max. 31.48 m. Min. 23.17 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	33	36	99	259	698	733	581	445	191	79	53	31
2	31	38	145	236	617	767	560	497	181	78	54	32
3	31	38	161	213	632	795	542	447	172	77	54	31
4	30	36	172	194	708	799	508	385	170	76	54	30
5	30	33	189	188	794	981	454	347	168	75	53	29
6	29	31	197	206	772	1,082	435	336	172	73	50	29
7	29	31	184	216	686	1,108	427	335	169	72	48	28
8	28	30	179	199	582	1,059	434	340	166	69	47	27
9	28	31	169	173	513	966	466	346	154	67	45	26
10	28	33	164	153	488	1,006	474	327	144	65	44	27
11	30	33	162	138	432	1,146	482	297	140	63	42	30
12	32	34	162	132	381	1,168	481	266	138	60	41	31
13	33	34	165	122	361	1,111	467	244	135	57	39	31
14	32	35	166	119	350	1,052	459	227	130	56	38	30
15	31	36	157	117	325	976	446	213	126	54	38	28
16	31	35	159	120	300	906	424	204	120	52	37	26
17	30	38	174	124	276	884	400	196	122	51	37	25
18	30	40	200	123	263	946	370	189	119	50	36	24
19	29	39	230	118	270	969	342	183	116	49	36	24
20	28	35	264	116	309	906	320	178	116	49	35	25
21	28	36	265	120	327	822	305	177	113	48	35	24
22	29	37	250	117	505	736	304	187	107	47	34	23
23	29	39	235	114	745	686	299	196	104	47	33	22
24	30	41	215	114	851	656	284	213	101	49	33	21
25	31	43	211	112	851	640	270	220	99	47	32	21
26	32	39	223	109	792	650	257	220	96	46	32	21
27	33	41	266	123	733	660	253	215	94	45	31	20
28	35	55	308	170	679	652	248	210	92	44	31	20
29	36	63	300	450	654	610	264	207	90	43		19
30	35	76	279	723	696	596	333	199	86	44		20
31		80		771	715		350		83	50		20
Total	921	1,246	6,050	6,189	17,305	26,068	12,239	8,046	4,014	1,782	1,142	795
Mean	31	40	202	200	558	869	395	268	129	57	41	26
Max.	36	80	308	771	851	1,168	581	497	191	79	54	32
Min.	28	30	99	109	263	596	248	177	83	43	31	19
Runoff - mcm.	79.574	107.654	522.720	534.730	1,495.152	2,252.275	1,057.450	695.174	346.810	153.965	98.669	68.688

WATER YEAR 1965 : Max. 1,168 Min. 19 Mean 235 Annual Runoff 7,412.861 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 12	06.00	31.50	1,172	Aug. 25	06.00	29.84	860

WATER YEAR 1965
NAN RIVER BASIN

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

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

Drainage Area: 8,993 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water – stage recorder.

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

Bench Mark:
- Location: On the top of a nail at the foot of a big tree near the gage site.
- Elevation: + 186.634 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1959 to date.

Rating Operation:
- Period of Rating: 1959 to date.
- Rated by Float: –
- Rated by Current Meter: 1959 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation due to its adequate stability.

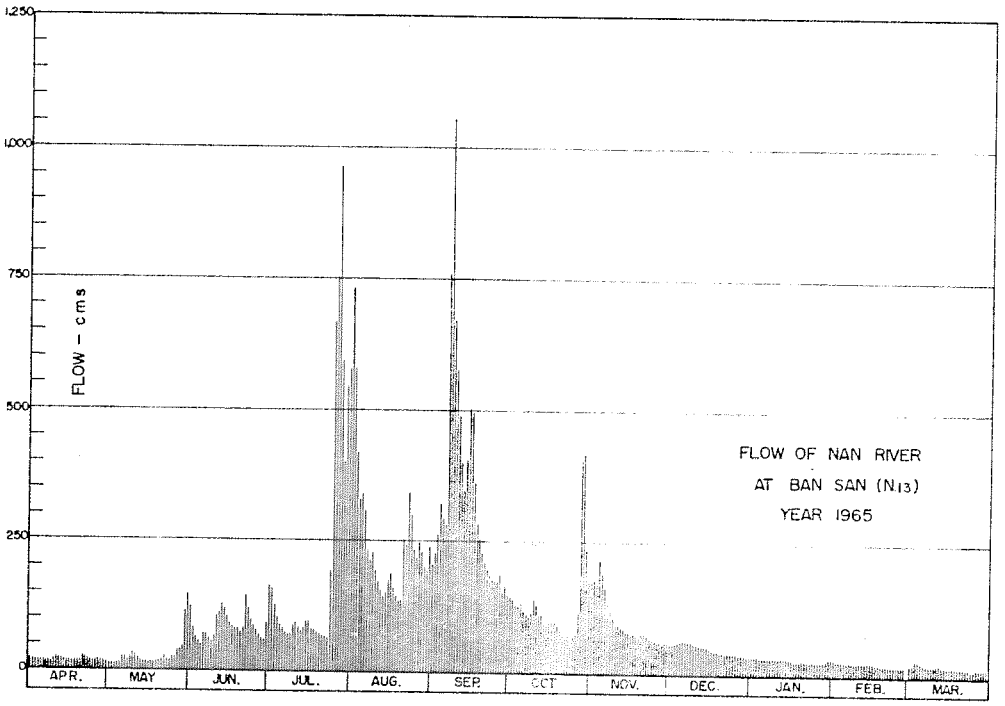
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurement made in 1965. There are no diversions above the station.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	176.98	176.90	177.74	177.98	180.66	178.25	177.86	178.04	177.31	177.12	177.07	176.96
2	.96	.90	.76	.96	.04	.36	.84	.06	.31	.12	.06	.99
3	.94	.90	.33	.76	179.34	.56	.77	.03	.31	.12	.05	177.09
4	.94	.91	.28	.61	178.89	.84	.76	.29	.32	.11	.05	.08
5	.94	.93	.25	.52	.93	.71	.80	.15	.33	.11	.04	.04
6	176.92	177.04	177.40	177.48	178.83	178.64	177.70	177.99	177.34	177.11	177.03	177.01
7	.91	.04	.39	.42	.39	180.74	.66	.82	.34	.11	.03	176.97
8	.91	176.99	.34	.39	.28	181.87	.64	.71	.33	.10	.02	.97
9	.90	177.04	.29	.41	.36	180.42	.67	.64	.33	.10	.02	.97
10	.97	.11	.37	.52	.17	.03	.84	.59	.31	.10	.02	.97
11	177.02	177.06	177.63	177.55	178.05	179.68	177.79	177.54	177.30	177.10	177.02	176.97
12	176.98	.00	.66	.48	177.96	.23	.65	.51	.28	.10	.02	.97
13	.97	176.95	.77	.45	.87	178.98	.66	.49	.27	.09	.02	.95
14	.95	.93	.72	.48	.87	179.27	.59	.47	.26	.09	.02	.94
15	.94	.92	.62	.56	178.04	.72	.58	.45	.25	.08	.02	.93
16	176.93	176.91	177.52	177.56	178.14	179.69	177.57	177.43	177.24	177.07	177.01	176.93
17	.93	.91	.47	.46	177.97	.08	.56	.42	.22	.06	.01	.92
18	.93	.92	.46	.46	.87	178.74	.58	.41	.20	.06	.00	.91
19	.95	.92	.45	.42	.81	.52	.53	.40	.20	.05	176.99	.91
20	.92	.95	.40	.40	.84	.35	.47	.43	.19	.05	.98	.91
21	177.03	177.00	177.47	177.37	178.50	178.25	177.43	177.44	177.19	177.05	176.98	176.90
22	.02	.04	.87	.37	.44	.19	.40	.41	.18	.04	.96	.90
23	176.99	176.99	.74	.35	.95	.11	.39	.38	.17	.04	.95	.90
24	.95	.99	.59	178.16	.76	.06	.38	.36	.17	.04	.95	.89
25	.93	177.02	.51	180.41	.41	.06	.37	.35	.17	.04	.95	.89
26	176.95	177.04	177.45	180.74	178.31	178.04	177.43	177.33	177.16	177.04	176.95	176.90
27	.95	.15	.41	181.55	.48	.12	.69	.32	.14	.04	.95	.90
28	.95	.17	.34	180.10	.36	177.92	179.28	.31	.14	.05	.95	.90
29	.93	.22	.32	179.25	.20	178.00	.32	.32	.14	.07		.90
30	.91	.68	.53	.90	.16	177.88	178.39	.32	.12	.09		.90
31		.87		180.04	.41		.05		.12	.09		.89
Mean	176.95	177.04	177.50	178.16	178.46	178.87	177.76	177.58	177.23	177.07	177.00	176.94
Max.	177.03	177.87	177.87	181.55	180.66	181.87	179.32	178.29	177.34	177.12	177.07	177.09
Min.	176.90	176.90	177.25	177.35	177.81	177.88	177.37	177.31	177.12	177.04	176.95	176.89

WATER YEAR 1965 : Max. 181.87 m. Min. 176.89 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	21	15	124	164	731	209	144	174	59	35	30	20
2	20	15	81	160	579	229	140	177	59	35	29	22
3	18	15	62	128	421	265	129	172	59	35	28	32
4	18	16	55	104	330	320	128	216	61	34	28	31
5	18	17	51	90	340	294	134	192	62	34	27	27
6	17	27	72	84	318	281	118	165	64	34	26	24
7	16	27	71	75	234	759	112	137	64	34	26	21
8	16	22	64	71	215	1,054	108	120	62	33	25	21
9	15	27	57	73	229	671	113	108	62	33	25	21
10	21	34	68	90	196	576	140	100	59	33	25	21
11	25	29	107	94	175	495	132	93	58	33	25	21
12	21	23	112	84	160	398	110	88	55	33	25	21
13	21	19	129	79	145	348	112	85	54	32	25	19
14	19	17	121	84	145	406	100	82	53	32	25	18
15	18	17	105	96	174	504	99	79	51	31	25	17
16	17	16	92	96	191	497	97	76	50	30	24	17
17	17	16	85	81	162	368	96	75	48	29	24	17
18	17	17	83	81	145	300	99	73	45	29	23	16
19	19	17	82	75	136	258	91	72	45	28	22	16
20	17	19	75	72	140	227	82	76	44	28	21	16
21	26	23	82	68	254	209	78	73	44	28	21	15
22	25	27	145	68	243	199	72	73	43	27	20	15
23	22	22	124	65	342	186	71	69	41	27	19	15
24	19	22	100	194	304	177	69	66	41	27	19	14
25	17	25	88	668	238	177	68	65	41	27	19	14
26	19	27	79	751	220	174	76	62	40	27	19	15
27	19	39	73	964	250	187	116	61	38	27	19	15
28	19	41	64	593	229	153	409	59	38	28	19	15
29	17	48	61	402	201	167	417	61	38	30		15
30	16	115	91	545	194	147	234	61	35	32		15
31		145		579	238		175		35	32		14
Total	570	939	2,603	6,778	7,879	10,235	4,067	3,015	1,548	957	663	580
Mean	19	30	87	219	254	341	131	100	50	31	24	19
Max.	26	145	145	964	731	1,054	417	216	64	35	30	32
Min.	15	15	51	65	136	147	68	59	35	27	19	14
Runoff - mcm.	49.248	81.130	224.899	585.719	680.746	884.304	351.389	260.496	133.747	82.685	57.283	50.112

WATER YEAR 1965 : Max. 1,054 Min. 14 Mean 109 Annual Runoff 3,441.658 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 8	24.00	182.29	1,169				

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Chumsaeng, Nakhon Sawan (N. 14)

Location: Lat. 15° – 53' – 41" N., Long 100° – 18' – 44" E., on the right bank infront of the previous site of Amphoe Chumsaeng office, Tambon Phikul, Nakhon Sawan.

Drainage Area: 33,110 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 18.00 m. (M.S.L.)

Bench Mark: B.M. – R.I.D. 2.
- Location: 45 meters from the fence of Amphoe Chumsaeng office.
- Elevation: + 27.588 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1954 to date.

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

Stability of Channel Regimes: Unstable, shifting adjustment is not included for flow computation due to insufficient field data.

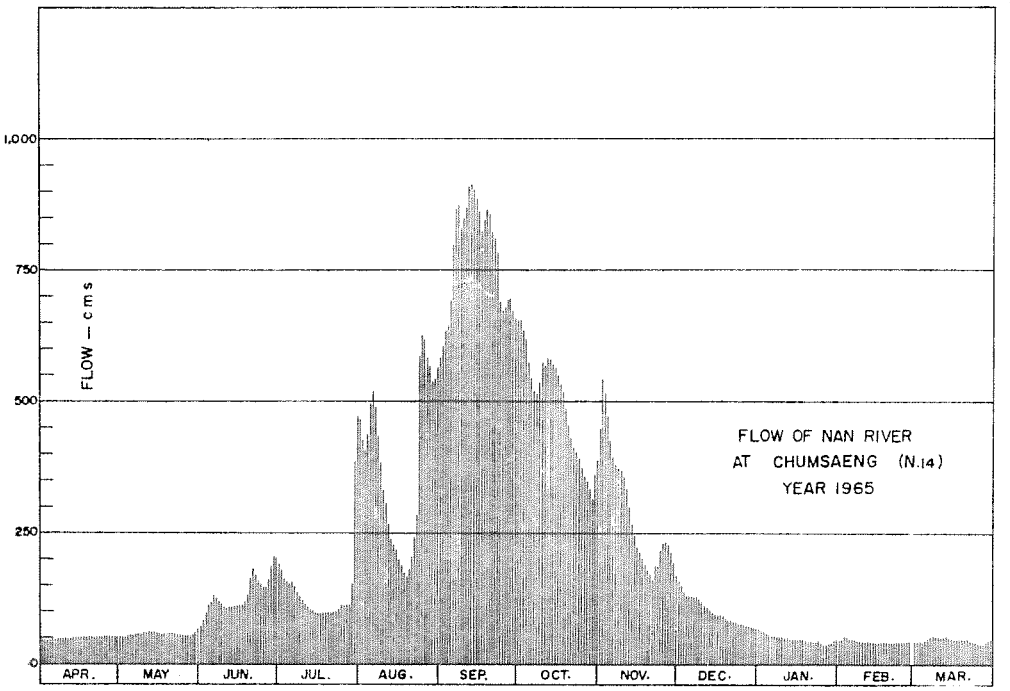
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Discharge measurements were made by moving crew in 1965. No diversion are made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	19.38	19.57	19.97	21.59	23.79	24.49	24.87	23.66	21.24	19.84	19.38	19.30
2	.38	.58	20.15	.48	.53	.61	.88	24.27	.09	.79	.40	.29
3	.39	.58	.41	.29	.38	.76	.77	.09	20.96	.73	.49	.29
4	.39	.60	.61	.24	.61	.82	.68	23.82	.69	.67	.50	.28
5	.40	.62	.72	.14	.97	25.07	.42	.49	.86	.62	.46	.34
6	19.41	19.63	20.69	21.21	24.11	25.60	24.26	23.29	20.85	19.58	19.43	19.46
7	.42	.66	.80	.10	23.93	.89	.12	.19	.84	.55	.39	.50
8	.42	.67	.71	20.96	.59	.93	.08	.14	.82	.52	.36	.52
9	.44	.68	.64	.82	.21	.73	.22	.11	.79	.51	.32	.50
10	.45	.70	.56	.76	22.86	.59	.43	.02	.70	.50	.31	.47
11	19.45	19.73	20.55	20.66	22.64	25.92	24.41	22.84	20.59	19.48	19.30	19.47
12	.46	.75	.57	.56	.32	26.09	.49	.57	.54	.47	.29	.51
13	.47	.74	.57	.50	.06	.11	.46	.31	.47	.46	.29	.52
14	.47	.72	.59	.47	21.95	.08	.41	.12	.37	.45	.28	.48
15	.48	.70	.60	.37	.86	25.99	.38	21.93	.34	.43	.27	.46
16	19.49	19.68	20.60	20.36	21.69	25.88	24.31	21.82	20.32	19.42	19.27	19.44
17	.49	.68	.62	.36	.54	.71	.19	.69	.31	.40	.26	.41
18	.50	.67	.71	.37	.39	.81	.11	.58	.28	.38	.25	.43
19	.50	.68	.92	.38	.34	.90	23.93	.47	.23	.36	.25	.41
20	.50	.69	21.30	.39	.48	.86	.70	.37	.17	.33	.24	.38
21	19.51	19.69	21.49	20.38	21.72	25.70	23.55	21.31	20.14	19.32	19.24	19.33
22	.52	.68	.35	.41	22.09	.65	.44	.55	.11	.30	.25	.29
23	.52	.64	.24	.44	.46	.53	.36	.55	.09	.28	.26	.26
24	.53	.61	.14	.53	24.51	.06	.27	.82	.05	.27	.26	.23
25	.54	.60	.08	.60	.73	24.98	.16	.99	.03	.23	.27	.22
26	19.54	19.60	21.08	20.60	24.69	25.01	23.04	22.02	20.00	19.21	19.28	19.20
27	.55	.59	.26	.60	.49	.08	22.96	21.96	19.99	.20	.28	.21
28	.56	.60	.56	.62	.40	.09	.86	.80	.98	.23	.29	.28
29	.56	.65	.74	21.16	.23	24.97	.72	.60	.95	.27		.35
30	.57	.70	.70	23.24	.25	.90	23.06	.37	.91	.39		.40
31		.84		.82	.39		.26		.88	.43		.40
Mean	19.48	19.66	20.87	20.92	23.10	25.46	23.92	22.39	20.41	19.44	19.32	19.37
Max.	19.57	19.84	21.74	23.82	24.73	26.11	24.88	24.27	21.24	19.84	19.50	19.52
Min.	19.38	19.57	19.97	20.36	21.34	24.49	22.72	21.31	19.88	19.20	19.24	19.21

WATER YEAR 1965 : Max. 26.11 m. Min. 19.21 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	46	54	73	190	466	582	651	446	159	67	46	43
2	46	54	83	180	426	604	652	543	147	64	47	43
3	47	54	99	163	405	631	633	514	137	61	51	43
4	47	55	112	159	438	642	616	471	131	58	51	42
5	47	56	119	151	495	690	570	421	129	56	49	45
6	47	56	131	157	518	798	542	393	128	54	48	49
7	48	58	125	148	489	862	519	379	128	53	47	51
8	48	58	119	137	435	871	513	372	126	52	45	52
9	49	59	114	126	381	827	535	367	124	51	44	51
10	49	60	108	122	332	796	571	355	118	51	43	50
11	49	61	107	115	305	868	568	330	110	50	43	50
12	49	62	109	108	266	907	582	296	107	50	43	51
13	50	62	109	104	238	911	578	265	102	49	43	52
14	50	61	110	102	226	904	568	244	96	49	42	50
15	50	60	111	96	217	884	562	224	94	48	42	49
16	51	59	111	96	200	860	550	213	93	48	42	49
17	51	59	112	96	186	822	530	200	93	47	41	47
18	51	58	119	96	172	844	518	189	91	46	41	48
19	51	59	134	97	168	864	489	179	88	45	41	47
20	51	59	164	97	180	855	452	170	84	44	41	46
21	51	59	181	97	203	820	429	165	82	44	41	44
22	52	59	168	99	241	809	414	186	81	43	41	43
23	52	57	159	100	283	783	402	186	79	42	41	41
24	52	55	151	105	586	688	390	218	77	42	41	40
25	53	55	146	111	625	672	374	230	76	40	42	40
26	53	55	146	111	618	678	358	233	75	39	42	39
27	53	55	161	111	582	692	346	227	74	39	42	39
28	53	55	187	112	566	694	332	211	74	40	43	42
29	53	57	205	153	537	670	314	191	72	42		45
30	54	60	201	386	540	656	360	170	70	47		47
31		67		471	564		388		69	48		47
Total	1,503	1,798	3,974	4,396	12,154	23,384	15,306	8,588	3,115	1,509	1,223	1,425
Mean	48	58	132	142	392	779	494	286	100	49	44	46
Max.	54	67	205	471	625	911	652	543	159	67	51	52
Min.	46	54	73	96	168	582	314	165	69	39	41	39
Runoff - mcm.	129.859	155.347	343.354	379.814	1,050.106	2,020.378	1,322.438	742.003	269.136	130.378	105.667	123.120

WATER YEAR 1965 : Max. 911 Min. 39 Mean 215 Annual Runoff 6,771.600 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 13	12.00	26.11	911	Sept. 7	18.00	25.92	868

WATER YEAR 1965
NAN RIVER BASIN

Nam Pat River at Ban Fai, Uttaradit (N. 16)

Location: Lat. 17° - 44' - 24" N., Long 100° - 42' - 00" E., on the left bank, 3 kilometers upstream from the office of Amphoe Nam Pat, Tambon Ban Fai, Uttaradit.

Drainage Area: 2,088 sq. km. referred to AMS. Map. 1:50,000

Type of Gage: Staff gage

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

Bench Mark:
Location: Located on the left bank, 12 meters from the upper gage,
Elevation: + 6.310 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 which is adequate for its mean daily value.

Period of Available Gage Records: 1957 - 58, 1962 to date

Rating Operation:
Period of Rating: 1963 to date.
Rated by Float: -
Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, periodic rating curves are used in flow computation.

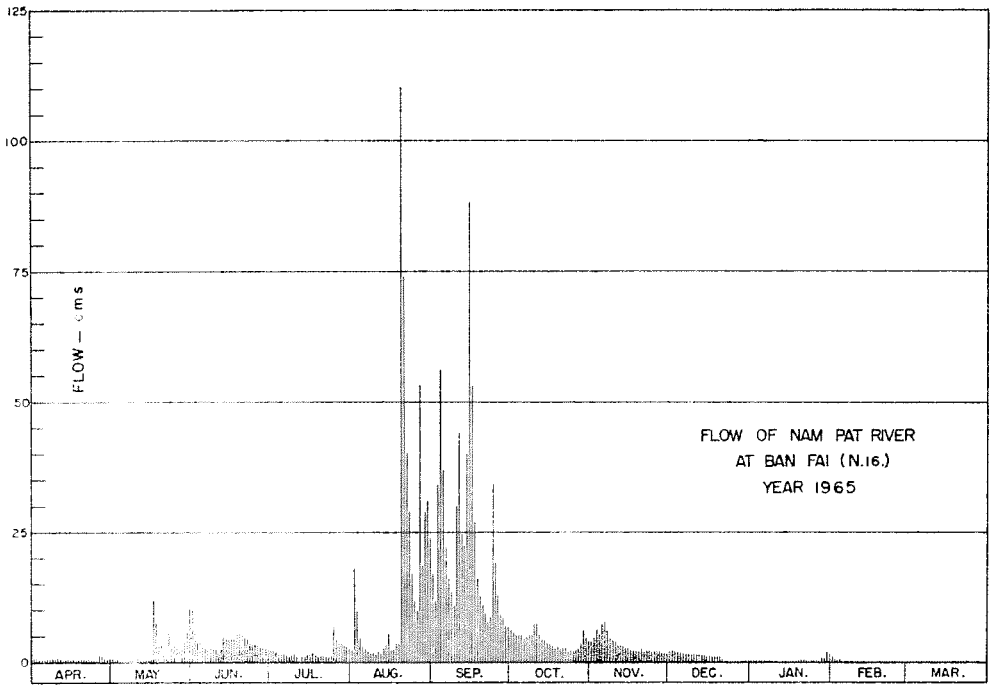
Overbank Flow Conditions: No overbank flow

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.35	0.33	0.89	0.48	0.57	1.08	0.75	0.61	0.47	0.36	0.45	0.34
2	.34	.33	.74	.49	1.35	0.95	.72	.65	.46	.37	.42	.34
3	.34	.32	.63	.45	.06	1.41	.70	.75	.46	.37	.41	.36
4	.33	.31	.58	.45	0.78	.74	.68	.70	.45	.37	.40	.35
5	.33	.31	.53	.42	.64	.47	.68	.79	.45	.37	.37	.34
6	0.33	0.31	0.51	0.42	0.60	1.20	0.66	0.82	0.45	0.37	0.36	0.34
7	.34	.31	.49	.41	.55	.06	.67	.73	.45	.37	.35	.33
8	.34	.32	.47	.40	.53	.02	.68	.67	.44	.37	.35	.32
9	.35	.32	.46	.40	.54	0.94	.68	.62	.44	.36	.35	.32
10	.36	.34	.49	.42	.50	1.35	.79	.61	.44	.35	.34	.32
11	0.34	0.35	0.54	0.41	0.56	1.57	0.79	0.56	0.44	0.35	0.34	0.32
12	.33	.33	.53	.43	.52	.26	.70	.55	.43	.34	.34	.31
13	.32	.32	.53	.40	.61	.22	.64	.54	.43	.33	.35	.31
14	.32	.32	.65	.41	.71	.40	.61	.52	.42	.32	.35	.31
15	.32	.31	.63	.39	.81	2.12	.60	.51	.41	.32	.35	.31
16	0.32	0.32	0.61	0.43	0.57	1.69	0.58	0.50	0.40	0.34	0.34	0.31
17	.34	.97	.64	.43	.61	.30	.54	.49	.40	.36	.33	.32
18	.34	.79	.65	.46	.69	.11	.53	.49	.39	.36	.33	.32
19	.34	.60	.71	.42	.68	.00	.54	.49	.38	.37	.32	.31
20	.33	.55	.70	.40	2.25	0.93	.52	.51	.37	.38	.32	.31
21	0.32	0.49	0.65	0.37	1.97	0.88	0.51	0.49	0.36	0.38	0.31	0.30
22	.32	.48	.61	.38	.61	.82	.52	.48	.35	.37	.31	.30
23	.31	.71	.59	.38	.32	.85	.49	.48	.35	.37	.33	.30
24	.31	.55	.58	.44	.09	1.42	.49	.47	.34	.36	.35	.31
25	.31	.60	.56	.76	0.96	.14	.48	.47	.34	.35	.35	.31
26	0.44	0.53	0.54	0.64	0.89	0.99	0.50	0.46	0.35	0.35	0.35	0.32
27	.37	.49	.52	.60	1.70	.87	.51	.46	.35	.37	.35	.32
28	.33	.50	.50	.54	.14	.84	.60	.45	.38	.44	.34	.31
29	.34	.62	.46	.51	.32	.79	.75	.45	.37	.44		.30
30	.35	.73	.50	.50	.36	.77	.66	.45	.37	.57		.29
31		.89		.48	.23		.61		.37	.52		.29
Mean	0.34	0.47	0.58	0.42	0.96	1.17	0.67	0.56	0.40	0.37	0.35	0.32
Max.	0.44	0.97	0.89	0.76	2.25	2.12	0.79	0.82	0.47	0.57	0.45	0.36
Min.	0.31	0.31	0.46	0.37	0.50	0.77	0.48	0.45	0.34	0.32	0.31	0.29

WATER YEAR 1965 : Max. 2.25 m. Min. 0.29 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.67	10	2.26	2.25	17	6.47	4.01	2.14	0.48	1.12	0.37
2	0.76	0.67	6.27	2.38	18	12	5.86	4.65	2.02	0.53	0.87	0.37
3	0.76	0.58	4.33	1.90	10	34	5.45	6.47	2.02	0.53	0.78	0.48
4	0.67	0.49	3.58	1.90	4.87	56	5.13	5.45	1.90	0.53	0.70	0.42
5	0.67	0.49	2.90	1.54	3.03	37	5.13	7.29	1.90	0.53	0.53	0.37
6	0.67	0.49	2.63	1.54	2.55	22	4.81	8.00	1.90	0.53	0.48	0.37
7	0.76	0.49	2.38	1.42	2.05	16	4.97	6.06	1.90	0.53	0.42	0.31
8	0.76	0.58	2.14	1.30	1.85	14	5.13	4.97	1.78	0.53	0.42	0.26
9	0.85	0.58	2.02	1.30	1.95	11	5.13	4.17	1.78	0.48	0.42	0.26
10	0.94	0.76	2.38	1.54	1.55	30	7.29	4.01	1.78	0.42	0.37	0.26
11	0.76	0.85	3.04	1.42	2.15	44	7.29	3.31	1.78	0.42	0.37	0.26
12	0.67	0.67	2.90	1.66	1.75	25	5.45	3.17	1.66	0.37	0.37	0.20
13	0.58	0.58	2.90	1.30	2.67	23	4.49	3.04	1.66	0.31	0.42	0.20
14	0.58	0.58	4.65	1.42	3.89	40	4.01	2.77	1.54	0.26	0.42	0.20
15	0.58	0.49	4.33	1.21	5.31	88	3.85	2.63	1.42	0.26	0.42	0.20
16	0.58	0.58	4.01	1.66	2.25	53	3.58	2.50	1.30	0.37	0.37	0.20
17	0.76	12	4.49	1.66	2.67	27	3.04	2.38	1.30	0.48	0.31	0.26
18	0.76	7.29	4.65	2.02	3.63	18	2.90	2.38	1.21	0.48	0.31	0.26
19	0.76	3.85	5.65	1.54	3.51	13	3.04	2.38	1.12	0.53	0.26	0.26
20	0.67	3.17	5.45	1.30	110	11	2.77	2.63	1.03	0.59	0.26	0.20
21	0.58	2.38	4.65	1.03	74	9.50	2.63	2.38	0.94	0.59	0.20	0.15
22	0.58	2.26	4.01	1.12	40	8.00	2.77	2.26	0.42	0.53	0.20	0.15
23	0.49	5.65	3.71	1.12	29	8.75	2.38	2.26	0.42	0.53	0.31	0.15
24	0.49	3.17	3.58	1.78	17	34	2.38	2.14	0.37	0.48	0.42	0.20
25	0.49	3.85	3.31	6.68	12	19	2.26	2.14	0.37	0.42	0.42	0.20
26	1.78	2.90	3.04	4.49	10	13	2.50	2.02	0.42	0.42	0.42	0.26
27	1.03	2.38	2.77	3.85	53	9.25	2.63	2.02	0.42	0.53	0.42	0.26
28	0.67	2.50	2.50	3.04	19	8.50	3.85	1.90	0.59	1.04	0.37	0.20
29	0.76	4.17	2.02	2.63	29	7.29	6.47	1.90	0.53	1.04		0.15
30	0.85	6.06	2.50	2.50	31	6.88	4.81	1.90	0.53	2.25		0.12
31		10		2.26	24		4.01		0.53	1.75		0.12
Total	22	81	113	63	524	715	132	103	39	19	12	7.61
Mean	0.73	2.61	3.77	2.03	17	24	4.26	3.43	1.23	0.61	0.43	0.24
Max.	1.78	12	10	6.68	110	88	7.29	8.00	2.14	2.25	1.12	0.48
Min.	0.49	0.49	2.02	1.03	1.55	6.88	2.26	1.90	0.37	0.26	0.20	0.12
Runoff - MCM.	1.901	6.998	9.763	5.443	45.274	61.776	11.405	8.899	3.370	1.642	1.035	0.657

WATER YEAR 1965 : Max. 110 Min. 0.12 Mean 5.02 Annual Runoff 158.165 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 20	12.00	2.68	149	Sept. 15	06.00	2.43	120

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 17° - 01' - 57" N., Long 100° - 22' - 23" E., about 1 kilometer downstream from the District Forestry office, and about 12 kilometers upstream from Amphoe Wat Bot office, Phitsanulok.

Drainage Area: 4,761 sq. km. referred to AMS. Map,1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: On the left bank near the upper gage.
- Elevation: + 8.952 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 which is adequate for its mean daily value.

Period of Available Gage Records: 1963 to date.

Rating Operation:
- Period of Rating: 1963 to date.
- Rated by Float: -
- Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation due to adequate stability.

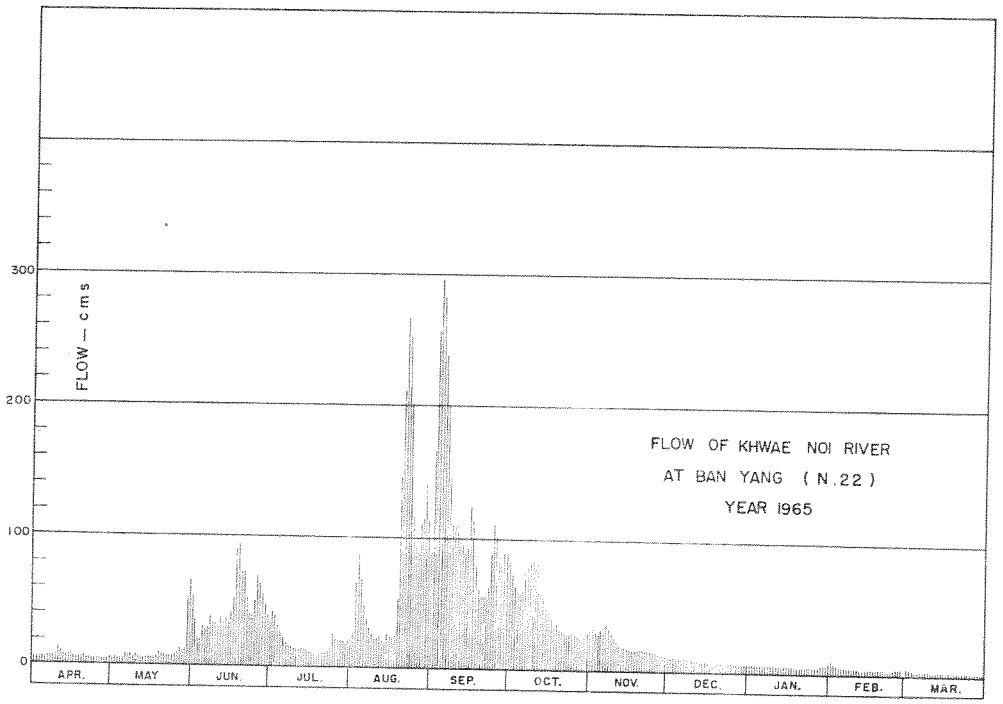
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.54	0.62	1.87	1.47	1.21	2.63	2.41	1.41	0.88	0.69	0.81	0.59
2	.54	.58	.53	.64	.34	.34	.21	.44	.87	.68	.74	.58
3	.56	.55	.23	.58	2.18	4.75	.06	.38	.86	.68	.69	.55
4	.61	.52	.10	.41	.51	5.29	.03	.35	.86	.67	.66	.53
5	.61	.52	.40	.26	.14	.10	1.98	.41	.85	.67	.63	.52
6	0.66	0.73	1.35	1.15	1.78	4.72	2.04	1.49	0.84	0.67	0.61	0.51
7	.61	.65	.35	.05	.53	.16	.29	.52	.84	.66	.60	.50
8	.63	.67	.56	0.99	.42	3.52	.39	.43	.83	.66	.59	.50
9	.68	.60	.45	.94	.27	2.91	.44	.34	.82	.66	.58	.51
10	.93	.67	.43	.96	.21	.87	.46	.24	.82	.65	.57	.50
11	0.82	0.63	1.35	0.90	1.20	2.88	2.46	1.19	0.81	0.65	0.57	0.49
12	.67	.62	.53	.93	.26	.72	.44	.13	.80	.64	.56	.49
13	.61	.57	.44	.95	.15	.70	.09	.11	.80	.64	.56	.48
14	.63	.59	.54	.92	.15	.53	1.90	.09	.80	.64	.56	.48
15	.73	.58	.42	.93	.29	.58	.79	.07	.79	.63	.55	.48
16	0.62	0.57	1.67	0.86	1.30	3.10	1.68	1.05	0.79	0.63	0.54	0.47
17	.56	.56	.87	.83	.26	2.89	.58	.03	.78	.63	.54	.47
18	.55	.62	2.57	.80	.28	.39	.54	.02	.77	.62	.53	.46
19	.62	.76	.63	.77	.30	.11	.49	.01	.76	.61	.53	.46
20	.61	.69	.23	.81	2.95	1.96	.43	.00	.75	.61	.53	.45
21	0.58	0.69	2.24	0.84	4.17	1.93	1.38	1.02	0.75	0.61	0.53	0.45
22	.55	.65	1.82	.84	.98	.94	.34	.03	.74	.61	.52	.44
23	.57	.64	.61	.83	.79	2.05	.30	.01	.74	.63	.52	.44
24	.57	.64	.61	1.00	3.76	.35	.30	0.99	.73	.63	.52	.43
25	.55	.68	.81	.30	2.95	.91	.34	.96	.73	.62	.55	.43
26	0.54	0.78	2.21	1.24	2.67	2.71	1.33	0.94	0.73	0.61	0.59	0.43
27	.52	.87	.01	.16	.52	.52	.29	.93	.72	.61	.56	.43
28	.51	.82	1.85	.13	.92	.37	.28	.92	.72	.71	.58	.43
29	.51	.89	.73	.13	.99	.61	.27	.91	.71	.75		.43
30	.62	1.86	.57	.08	3.35	.61	.30	.89	.71	.66		.42
31		2.11		.14	2.92		.35		.70	.77		.42
Mean	0.61	0.74	1.69	1.06	2.12	2.94	1.78	1.14	0.78	0.65	0.58	0.48
Max.	0.93	2.11	2.63	1.64	4.98	5.29	2.46	1.52	0.88	0.77	0.81	0.59
Min.	0.51	0.52	1.10	0.77	1.15	1.93	1.27	0.89	0.70	0.61	0.52	0.42

WATER YEAR 1965 : Max. 5.29 m. Min. 0.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.32	5.80	52	33	22	93	80	31	12	7.20	10	5.22
2	4.32	5.04	36	41	28	76	69	32	12	7.00	8.40	5.04
3	4.68	4.50	23	38	67	253	61	29	11	7.00	7.20	4.50
4	5.60	3.96	19	31	86	295	60	28	11	6.80	6.60	4.14
5	5.60	3.96	30	24	65	277	57	31	11	6.80	6.00	3.96
6	6.60	8.15	28	20	47	244	60	34	11	6.80	5.60	3.78
7	5.60	6.40	28	17	36	198	73	35	11	6.60	5.40	3.60
8	6.00	6.80	37	15	31	151	79	31	11	6.60	5.22	3.60
9	7.00	5.40	32	14	25	110	82	28	10	6.60	5.04	3.78
10	13	6.80	31	14	22	108	83	24	10	6.40	4.86	3.60
11	10	6.00	28	13	22	109	83	22	10	6.40	4.86	3.44
12	6.80	5.80	36	13	24	99	82	20	9.90	6.20	4.68	3.44
13	5.60	4.86	32	14	20	97	63	19	9.90	6.20	4.68	3.28
14	6.00	5.22	36	13	20	87	53	18	9.90	6.20	4.68	3.28
15	8.15	5.04	31	13	26	90	48	18	9.65	6.00	4.50	3.28
16	5.80	4.86	42	11	26	123	43	17	9.65	6.00	4.32	3.12
17	4.68	4.68	52	11	24	109	38	16	9.40	6.00	4.32	3.12
18	4.50	5.80	90	9.90	25	79	36	16	9.15	5.80	4.14	2.96
19	5.80	8.90	93	9.15	26	64	34	16	8.90	5.60	4.14	2.96
20	5.60	7.20	70	10	115	56	31	16	8.65	5.60	4.14	2.80
21	5.04	7.20	71	11	198	55	29	16	8.65	5.60	4.14	2.80
22	4.50	6.40	49	11	266	55	28	16	8.40	5.60	3.96	2.64
23	4.86	6.20	39	11	250	61	26	16	8.40	6.00	3.96	2.64
24	4.86	6.20	39	16	168	77	26	15	8.15	6.00	3.96	2.48
25	4.50	7.00	49	26	113	110	28	14	8.15	5.80	4.50	2.48
26	4.32	9.40	69	24	96	98	27	14	8.15	5.60	5.22	2.48
27	3.96	12	59	21	87	87	26	13	7.90	5.60	4.68	2.48
28	3.78	10	51	20	111	78	25	13	7.90	7.65	5.04	2.48
29	3.78	12	45	20	116	92	25	13	7.65	8.65		2.48
30	5.80	51	38	18	140	92	26	12	7.65	6.60		2.32
31		64		20	111		28		7.40	9.15		2.32
Total	171	306	1,335	562	2,413	3,523	1,509	623	293	200	144	100
Mean	5.70	9.89	44	18	78	117	49	21	9.47	6.45	5.15	3.24
Max.	13	64	93	41	266	295	83	35	12	9.15	10	5.22
Min.	3.78	3.96	19	9.15	20	55	25	12	7.40	5.60	3.96	2.32
Runoff - mcm.	14.774	26.438	115.344	48.557	208.483	304.387	130.378	53.827	25.315	17.280	12.442	8.640

WATER YEAR 1965 : Max. 295 Min. 2.32 Mean 31 Annual Runoff 965.866 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 3	24.00	5.74	338	Aug. 22	21.00	5.20	286

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 17° - 38' - 16" N., Long 100° - 14'- 02" E., on the right bank about 1 kilometer upstream from Wat Phra Fang, and is about 1.5 kilometers away from Phra Fang-Ngiu Ngarm road, Tambon Pha Chuk, Amphoe Muang, Uttaradit.

Drainage Area: 16,249 sq. km. referred to AMS. Map. 1:50,000

Type of Gage: Staff gage

Zero Gage at Bottom at: + 56.00 m. (M.S.L.)

Bench Mark:
- Location: Located on the right bank, 9 meters from the upper gage,
- Elevation: + 69.471 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 which is adequate for its mean daily value.

Period of Available Gage Records: 1963 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, shifting adjustment is negligible in flow computation due to adequate stability.

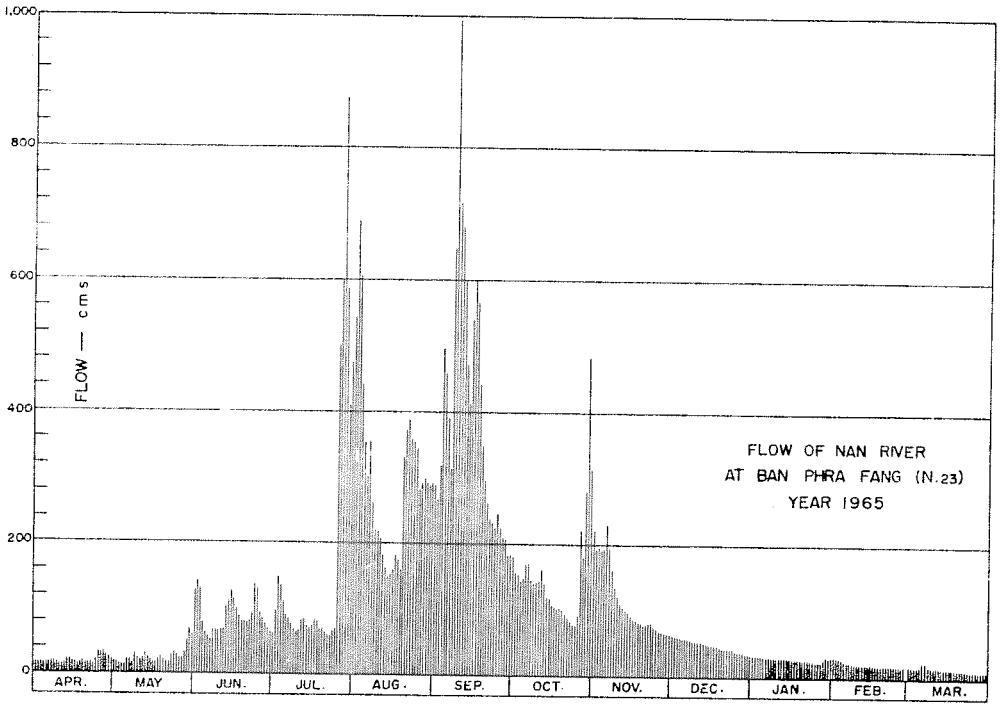
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.73	56.76	57.80	57.23	60.12	58.87	58.18	58.44	57.24	56.95	56.92	56.73
2	.72	.73	.91	.54	.67	.73	.02	.26	.23	.94	.91	.72
3	.71	.70	.66	.96	.36	59.04	.01	.29	.23	.93	.90	.72
4	.71	.68	.38	.86	59.68	.92	57.92	.25	.22	.92	.88	.71
5	.71	.68	.24	.66	.22	.76	.96	.27	.20	.92	.85	.73
6	56.71	56.79	57.19	57.52	58.94	59.43	58.11	58.50	57.20	56.91	56.83	56.83
7	.74	.78	.13	.43	59.24	.01	.11	.27	.19	.91	.82	.81
8	.75	.73	.28	.37	58.70	60.48	57.93	.04	.18	.91	.80	.75
9	.71	.90	.30	.30	.43	61.64	.91	57.86	.17	.91	.80	.73
10	.69	.83	.24	.27	.43	60.77	.91	.75	.16	.91	.79	.72
11	56.62	56.79	57.30	57.29	58.38	60.71	59.93	57.66	57.15	56.90	56.77	56.71
12	.70	.83	.30	.42	.18	.34	58.05	.61	.15	.90	.77	.70
13	.79	.91	.60	.43	.07	59.82	57.89	.57	.14	.90	.77	.70
14	.79	.83	.65	.35	57.97	.54	.72	.53	.13	.90	.77	.69
15	.76	.78	.79	.32	58.00	60.11	.72	.49	.12	.89	.77	.69
16	56.74	56.73	57.68	57.36	58.04	60.34	57.63	57.46	57.11	56.88	56.76	56.68
17	.70	.72	.57	.42	.19	.21	.61	.44	.10	.87	.76	.67
18	.73	.80	.47	.41	.14	59.68	.58	.42	.09	.87	.75	.66
19	.76	.85	.40	.31	.05	.20	.60	.40	.07	.87	.75	.66
20	.72	.78	.40	.32	59.07	58.91	.57	.39	.06	.85	.75	.65
21	56.72	56.75	57.38	57.26	59.34	58.68	57.51	57.39	57.05	56.88	56.75	56.65
22	.73	.74	.41	.22	.42	.54	.46	.41	.05	.86	.74	.65
23	.70	.86	.51	.21	.25	.51	.41	.41	.05	.85	.73	.63
24	.78	.92	.87	.29	.23	.46	.39	.37	.04	.84	.75	.63
25	.94	.89	.66	.31	.18	.60	.37	.33	.02	.83	.74	.63
26	56.94	56.83	57.52	59.91	58.83	58.46	57.50	57.31	57.00	56.83	56.74	56.63
27	.95	.82	.44	60.33	.89	.37	58.44	.30	.00	.83	.72	.62
28	.88	.92	.37	61.29	.93	.35	.18	.28	56.99	.88	.74	.62
29	.85	57.12	.31	60.29	.89	.19	.82	.27	.98	.92		.62
30	.80	.30	.25	59.53	.86	.20	59.87	.25	.97	.90		.62
31		.23		.83	.89		.01		.96	.92		.62
Mean	56.76	56.84	57.46	57.94	58.89	59.36	57.94	57.67	57.10	56.88	56.77	56.68
Max.	56.95	57.30	57.91	61.29	60.67	61.64	59.93	58.50	57.24	56.95	56.92	56.83
Min.	56.62	56.68	57.13	57.21	57.97	58.19	57.37	57.25	56.96	56.83	56.72	56.62

WATER YEAR 1965 : Max. 61.64 m. Min. 56.62 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17	19	128	61	543	289	181	220	62	34	32	17
2	16	17	141	97	688	267	157	193	61	33	31	16
3	16	15	111	148	604	319	155	197	61	32	30	16
4	16	14	78	135	441	495	143	191	60	32	28	16
5	16	14	62	111	352	458	148	194	58	32	26	17
6	16	21	57	94	301	390	170	230	58	31	24	24
7	18	21	51	84	355	314	170	194	57	31	24	23
8	18	17	66	76	262	647	144	160	56	31	22	18
9	16	30	68	68	219	994	141	135	55	31	22	17
10	14	24	62	65	219	717	141	122	54	31	21	16
11	14	21	68	67	210	700	144	111	53	30	20	16
12	15	24	68	82	181	598	161	105	53	30	20	15
13	21	31	104	84	164	471	139	100	52	30	20	15
14	21	24	110	74	150	412	118	96	51	30	20	14
15	19	21	127	70	154	540	118	91	50	29	20	14
16	18	17	114	75	160	598	108	87	49	28	19	14
17	15	16	100	82	182	565	105	85	48	28	19	13
18	17	22	88	81	175	441	102	82	47	28	18	12
19	19	26	80	69	161	348	104	80	45	28	18	12
20	16	21	80	70	331	296	100	79	44	26	18	11
21	16	18	78	64	373	259	93	79	43	28	18	11
22	17	18	81	60	388	236	87	81	43	27	18	11
23	15	27	93	59	357	232	81	81	43	26	17	10
24	21	32	136	67	353	224	79	76	42	25	18	10
25	33	29	111	69	344	246	76	72	40	24	18	10
26	33	24	94	500	283	224	92	69	38	24	18	10
27	34	24	85	596	292	209	220	68	38	24	16	9.40
28	28	32	76	877	299	206	181	66	37	28	18	9.40
29	26	50	69	585	292	182	281	65	36	32		9.40
30	22	68	63	410	288	184	483	63	36	30		9.40
31		61		473	292		314		35	32		9.40
Total	583	798	2,649	5,453	9,406	12,061	4,736	3,472	1,505	905	593	425
Mean	19	26	88	176	303	402	153	116	48	29	21	14
Max.	34	68	141	877	688	994	483	230	62	34	32	24
Min.	14	14	51	59	150	182	76	63	35	24	16	9.40
Runoff - mcm.	50.371	68.947	228.874	471.139	812.678	1,042.070	409.190	229.981	130.032	78.192	51.235	36.720

WATER YEAR 1965 : Max. 994 Min. 9.40 Mean 117 Annual Runoff 3,679.430 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9	06.00	61.83	1,030	Jul. 28	06.00	61.65	969

WATER YEAR 1965
NAN RIVER BASIN

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

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

Drainage Area: 1,866 sq. km. referred to AMS. Map. 1:50,000

Type of Gage: Staff gage.

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

Bench Mark:
Location: Locate on the right bank at the gate site,
Elevation: + 12.845 m. (A.D.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings which is adequate for its mean daily value.

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: Unstable during high flooods, no shifting adjustment is made in flow computation due to insufficient data.

Overbank Flow Conditions: No overbank flow

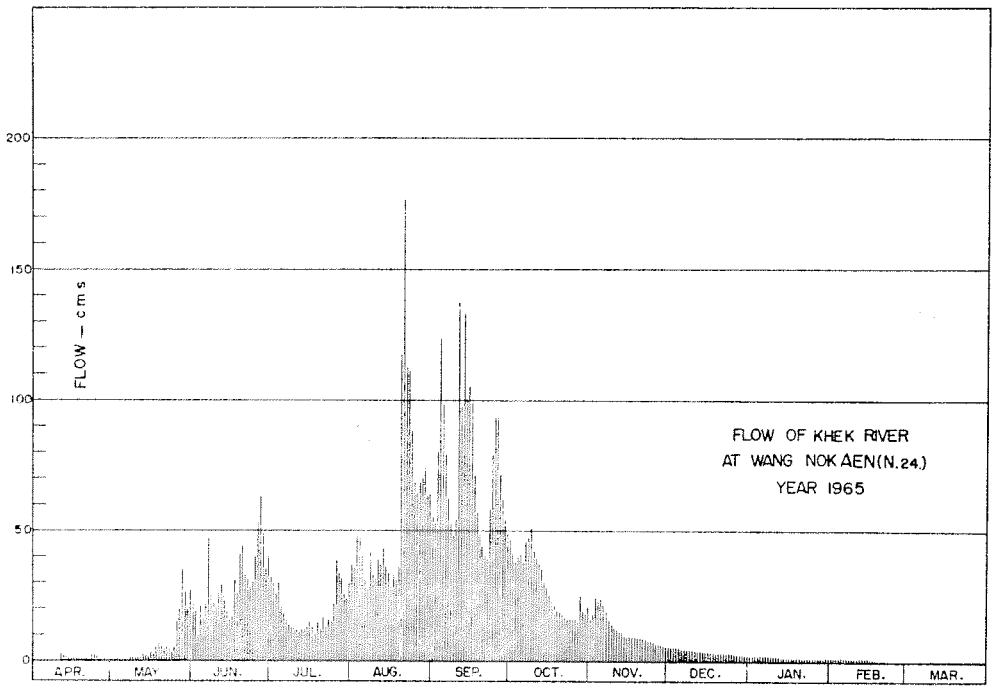
General Description: Records are classified as good. No diversion is made above the gage site.

Remark: Gage height began to record on Apr. 11, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.69	2.12	2.53	2.69	3.29	2.99	1.90	1.23	0.89	0.77	0.59
2		.72	1.98	.45	.67	.24	.82	.97	.22	.88	.77	.60
3		.79	.53	.29	3.06	4.06	.72	2.20	.21	.87	.78	.65
4		.77	2.09	.43	.06	5.44	.80	.18	.20	.87	.78	.65
5		.76	1.83	.08	2.79	4.56	.83	.19	.19	.86	.78	.62
6		0.75	2.13	1.95	2.50	4.02	2.75	2.13	1.17	0.85	0.76	0.63
7		.75	3.03	.83	.35	3.53	3.00	1.99	.16	.85	.74	.64
8		.85	2.23	.75	.88	.24	.05	.88	.15	.85	.74	.63
9		.86	.13	.70	.57	.07	.17	.79	.14	.84	.73	.63
10		.86	.07	.67	.52	.26	2.88	.72	.13	.83	.71	.66
11	1.04	0.86	2.27	1.64	2.76	5.57	2.78	1.68	1.11	0.83	0.73	0.63
12	0.97	.90	.42	.60	.69	4.54	.71	.65	.10	.83	.69	.63
13	.92	1.00	.23	.65	.90	5.47	.64	.62	.09	.82	.68	.62
14	.88	.02	1.99	.64	.67	4.62	.44	.59	.08	.81	.68	.61
15	.84	0.98	.84	.66	.58	.78	.31	.56	.06	.81	.68	.59
16	0.82	1.07	1.87	1.77	2.41	4.60	2.24	1.53	1.06	0.80	0.65	0.59
17	.81	.03	2.47	.66	.57	3.79	.16	.53	.05	.79	.67	.60
18	.78	.22	.30	.53	.48	.37	.09	.53	.04	.79	.65	.61
19	.77	.36	.83	.78	.68	.10	.04	.50	.02	.78	.65	.60
20	.78	.24	.92	.65	5.10	2.92	1.93	.48	.01	.77	.63	.58
21	0.78	1.18	2.57	1.86	6.45	2.82	1.93	1.48	1.00	0.78	0.63	0.58
22	.77	.21	.47	.67	4.95	.77	.88	.46	0.98	.76	.62	.58
23	1.05	.18	.38	.82	.94	3.40	.84	.43	.97	.76	.62	.56
24	0.96	.09	.45	.76	.28	4.04	.81	.42	.97	.75	.61	.56
25	.87	.24	.81	2.11	3.72	.42	.81	.36	.97	.74	.61	.56
26	0.83	1.76	3.22	2.78	3.60	4.44	1.81	1.34	0.96	0.75	0.61	0.56
27	.80	2.20	.58	.60	.73	3.83	.79	.32	.95	.76	.58	.55
28	.79	.64	.10	.51	.77	.52	2.24	.29	.94	.76	.55	.55
29	.77	.32	2.65	.27	.89	.28	1.99	.27	.93	.76		.54
30	.75	.05	.83	.22	.57	.09	.92	.25	.92	.76		.54
31		.34		.43	.61		2.06		.90	.75		.54
Mean		1.21	2.41	1.97	3.30	3.87	2.44	1.57	1.06	0.80	0.69	0.60
Max.		2.64	3.58	2.78	6.45	5.57	3.17	2.20	1.23	0.89	0.78	0.66
Min.		0.69	1.53	1.53	2.35	2.77	1.79	1.25	0.90	0.74	0.55	0.54

WATER YEAR 1965 : Max. 6.45 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.45	22	32	37	55	46	16	5.53	2.43	1.62	0.66
2		0.60	19	30	36	53	41	18	5.42	2.36	1.62	0.70
3		0.95	10	26	48	80	38	24	5.31	2.29	1.68	0.95
4		0.85	21	30	48	123	40	23	5.20	2.29	1.68	0.95
5		0.80	16	21	40	98	41	24	5.10	2.22	1.68	0.80
6		0.75	22	18	31	79	38	22	4.90	2.15	1.56	0.85
7		0.75	47	16	28	62	46	19	4.80	2.15	1.44	0.90
8		1.25	25	14	42	53	47	16	4.70	2.15	1.44	0.85
9		1.30	22	13	33	48	51	14	4.60	2.08	1.38	0.85
10		1.30	21	13	32	54	42	13	4.50	2.01	1.26	1.00
11	3.00	1.30	26	12	39	137	39	12	4.30	2.01	1.38	0.85
12	2.20	1.50	29	11	37	97	37	11	4.20	2.01	1.15	0.85
13	1.70	2.50	25	12	43	133	35	11	4.11	1.94	1.10	0.80
14	1.40	2.75	19	12	36	100	30	10	4.02	1.87	1.10	0.75
15	1.20	2.30	16	13	34	105	27	9.86	3.84	1.87	1.10	0.66
16	1.10	3.37	17	15	29	99	25	9.38	3.84	1.80	0.95	0.66
17	1.05	2.87	31	13	33	71	23	9.38	3.75	1.74	1.05	0.70
18	0.90	5.30	26	10	31	57	21	9.38	3.66	1.74	0.95	0.75
19	0.85	7.40	41	15	36	49	20	8.90	3.48	1.68	0.95	0.70
20	0.90	5.60	44	12	117	44	19	8.62	3.39	1.62	0.85	0.62
21	0.90	4.75	33	17	176	41	18	8.62	3.30	1.68	0.85	0.62
22	0.85	5.15	31	13	112	39	17	8.34	3.14	1.56	0.80	0.62
23	3.12	4.75	28	16	111	58	16	7.92	3.06	1.56	0.80	0.54
24	2.10	3.62	30	15	88	79	16	7.78	3.06	1.50	0.75	0.54
25	1.35	5.60	40	22	68	93	16	7.02	3.06	1.44	0.75	0.54
26	1.15	15	53	39	64	93	16	6.78	2.98	1.50	0.75	0.54
27	1.00	20	63	34	68	72	15	6.54	2.90	1.56	0.62	0.50
28	0.95	35	49	32	70	62	25	6.19	2.82	1.56	0.50	0.50
29	0.85	27	36	26	74	54	19	5.97	2.74	1.56		0.46
30	0.75	20	41	24	63	49	18	5.75	2.66	1.56		0.46
31		27		30	64		21		2.50	1.50		0.46
Total		212	903	606	1,768	2,237	903	359	121	57	32	22
Mean		6.83	30	19	57	74	29	12	3.90	1.85	1.13	0.70
Max.		35	63	39	176	137	51	24	5.53	2.43	1.68	1.00
Min.		0.45	10	10	28	39	15	5.75	2.50	1.44	0.50	0.46
Runoff - mcm.		18.317	78.019	52.358	152.755	193.277	78.019	31.018	10.454	4.925	2.765	1.87

WATER YEAR 1965 : Max. 176 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 21	03.00	7.05	204	Sept. 11	09.00	5.78	146

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 16° - 36' - 10" N., Long 100° - 26' - 49" E., on the left bank at the bridge of highway number 112 (Wang Thong-Phichit), Wat Ta Yom Market, Amphoe Bang Kra Thum, Phitsanulok.

Drainage Area: 875 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
Location:
Elevation:

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

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: Unstable during high floods, no shifting adjustment is made in flow computation, due to insufficient data.

Overbank Flow Conditions: No overbank flow.

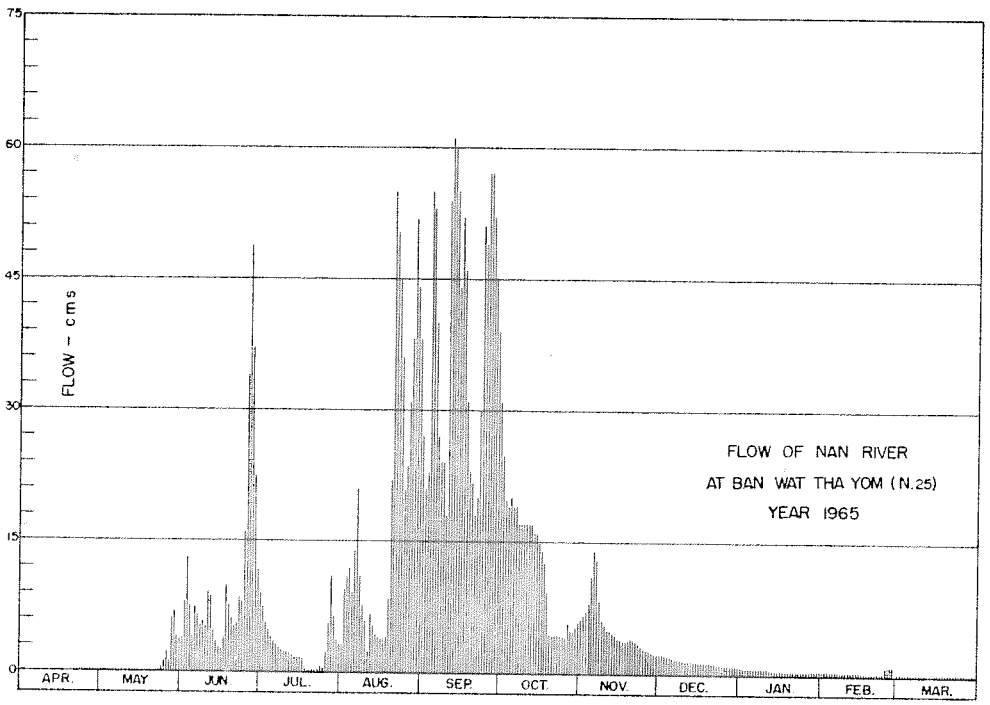
General Description: Records are classified as good. No diversion is made above the gage site.

Remark: Gage height began to record on Apr. 21, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.63	1.34	1.93	1.24	3.32	3.56	1.62	1.11	0.84	0.76	0.67
2		.61	.81	.76	.94	2.93	.22	.65	.11	.83	.77	.67
3		.62	2.24	.58	2.10	3.04	2.87	.70	.10	.82	.77	.65
4		.65	1.74	.47	.15	4.89	.74	.80	.07	.81	.75	.65
5		.63	.35	.38	1.90	.79	.82	2.09	.05	.81	.74	.65
6		0.64	1.74	1.30	2.36	4.14	2.74	2.38	1.04	0.81	0.73	0.63
7		.63	.69	.24	.89	3.36	.76	.25	.03	.80	.71	.63
8		.58	.51	.20	.12	.16	.59	1.83	.02	.80	.70	.63
9		.58	.57	.15	1.78	.10	.57	.60	.01	.79	.69	.63
10		.66	.52	.12	.59	2.65	.59	.54	.00	.79	.69	.63
11		0.63	1.91	1.12	1.13	4.82	2.60	1.48	0.99	0.78	0.69	0.62
12		.60	.88	.10	.66	5.17	.58	.47	.98	.77	.69	.62
13		.59	.46	.05	.51	.10	.56	.45	.98	.77	.68	.61
14		.57	.27	.02	.42	4.90	.53	.41	.97	.76	.68	.61
15		.57	.19	.01	.35	.35	.51	.38	.97	.76	.68	.60
16		0.57	1.14	1.02	1.34	4.76	2.45	1.35	0.96	0.76	0.67	0.63
17		.57	.36	.01	.35	.48	.36	.33	.96	.76	.67	.63
18		.56	.98	0.83	.37	3.58	.20	.32	.95	.75	.67	.63
19		.55	.78	.60	.86	.05	1.92	.34	.94	.75	.67	.63
20		.54	.60	.62	2.94	2.88	.42	.38	.93	.74	.67	.63
21	0.60	0.55	1.45	0.64	4.87	2.68	1.40	1.36	0.93	0.74	0.67	0.61
22	.65	.57	.55	.65	.64	.83	.40	.32	.92	.73	.66	.61
23	.66	.59	.86	.66	.40	3.54	.40	.27	.91	.73	.65	.60
24	.66	.75	.81	.81	3.88	4.71	.39	.24	.90	.72	.66	.60
25	.64	.92	2.55	.70	2.90	.63	.37	.21	.90	.72	.87	.60
26	0.63	1.11	3.80	1.12	3.11	5.00	1.35	1.18	0.89	0.71	0.88	0.59
27	.63	0.94	4.61	.56	.57	4.98	.56	.17	.88	.71	.89	.59
28	.62	1.62	3.93	2.09	4.03	.75	.46	.15	.87	.72	.89	.59
29	.62	.69	2.80	1.64	.77	.40	.45	.13	.86	.74		.58
30	.62	.36	.15	.33	.35	.08	.51	.11	.85	.74		.58
31		.33		.24	.01		.57		.85	.74		.58
Mean		0.75	1.95	1.13	2.56	4.00	2.17	1.48	0.96	0.76	0.72	0.62
Max.		1.69	4.61	2.09	4.87	5.17	3.56	2.38	1.11	0.84	0.89	0.67
Min.		0.54	1.14	0.60	1.13	2.65	1.35	1.11	0.85	0.71	0.65	0.58

WATER YEAR 1965 : Max. 5.17 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.21	3.85	9.36	3.13	27	31	6.24	2.26	0.86	0.56	0.29
2		0.17	8.10	7.60	9.47	21	25	6.52	2.26	0.82	0.59	0.29
3		0.19	13	5.87	11	23	20	7.00	2.20	0.78	0.59	0.25
4		0.25	7.40	4.89	12	55	19	8.00	2.02	0.74	0.52	0.25
5		0.21	3.92	4.15	9.05	53	20	11	1.90	0.74	0.49	0.25
6		0.23	7.40	3.55	14	40	19	14	1.85	0.74	0.45	0.21
7		0.21	6.90	3.13	21	27	19	13	1.79	0.70	0.38	0.21
8		0.12	5.24	2.85	11	24	17	8.31	1.73	0.70	0.35	0.21
9		0.12	5.78	2.52	7.80	24	17	6.05	1.67	0.66	0.33	0.21
10		0.27	5.33	2.33	5.96	18	17	5.51	1.61	0.66	0.33	0.21
11		0.21	9.15	2.33	2.39	54	17	4.98	1.56	0.63	0.33	0.19
12		0.15	8.84	2.20	6.62	61	17	4.89	1.51	0.59	0.33	0.19
13		0.13	4.81	1.90	5.24	60	17	4.72	1.51	0.59	0.31	0.17
14		0.10	3.34	1.73	4.47	55	16	4.38	1.46	0.56	0.31	0.17
15		0.10	2.78	1.67	3.92	44	16	4.15	1.46	0.56	0.31	0.15
16		0.10	2.46	1.73	3.85	52	15	3.92	1.41	0.56	0.29	0.21
17		0.10	4.00	1.67	3.92	46	14	3.77	1.41	0.56	0.29	0.21
18		0.09	9.89	0.82	4.07	31	12	3.70	1.35	0.52	0.29	0.21
19		0.07	7.80	0.15	8.63	23	9.26	3.85	1.30	0.52	0.29	0.21
20		0.06	6.05	0.19	22	21	4.47	4.15	1.25	0.49	0.29	0.21
21	0.15	0.07	4.72	0.23	55	18	4.30	4.00	1.25	0.49	0.29	0.17
22	0.25	0.10	5.60	0.25	50	20	4.30	3.70	1.20	0.45	0.27	0.17
23	0.27	0.13	8.63	0.27	45	30	4.30	3.34	1.15	0.45	0.25	0.15
24	0.27	0.52	8.10	0.74	36	51	4.22	3.13	1.10	0.42	0.27	0.15
25	0.23	1.20	16	0.35	21	49	4.07	2.92	1.10	0.42	0.98	0.15
26	0.21	2.26	34	2.33	24	57	3.92	2.72	1.06	0.38	1.02	0.13
27	0.21	1.30	49	5.69	31	57	5.69	2.65	1.02	0.38	1.06	0.13
28	0.19	6.24	37	11	38	52	4.81	2.52	0.98	0.42	1.06	0.13
29	0.19	6.90	20	6.43	52	45	4.72	2.39	0.94	0.49		0.12
30	0.19	4.00	12	3.77	44	39	5.24	2.26	0.90	0.49		0.12
31		3.77		3.13	38		5.78		0.90	0.49		0.12
Total		29	321	95	603	1,177	393	158	45	18	13	5.84
Mean		0.95	11	3.06	19	39	13	5.26	1.45	0.58	0.46	0.19
Max.		6.90	49	11	55	61	31	14	2.26	0.86	1.06	0.29
Min.		0.06	2.46	0.15	2.39	18	3.92	2.26	0.90	0.38	0.25	0.12
Runoff - mcm.		2.506	26.957	8.208	52.099	101.693	33.955	13.651	3.888	1.555	1.123	0.504

WATER YEAR 1965 : Max. 61 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 12	24.00	5.23	63	Aug. 21	24.00	5.05	58

WATER YEAR 1965
NAN RIVER BASIN

Nan River at Tron, Uttaradit (N. 26)

Location: Lat. 17° - 23' - 00" N., Long 100° - 06' - 58" E., on the right bank, about 500 meters east of Tron Railway station, opposite to the office of Amphoe Tron south of this station.

Drainage Area: 17,263 sq. km. referred to AMS. Map. 1:50,000 .

Type of Gage: Staff gage.

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

Bench Mark:
Location:
Elevation:

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

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, shifting adjustment is negligible in flow computation due to adequate stability.

Overbank Flow Conditions: No overbank flow.

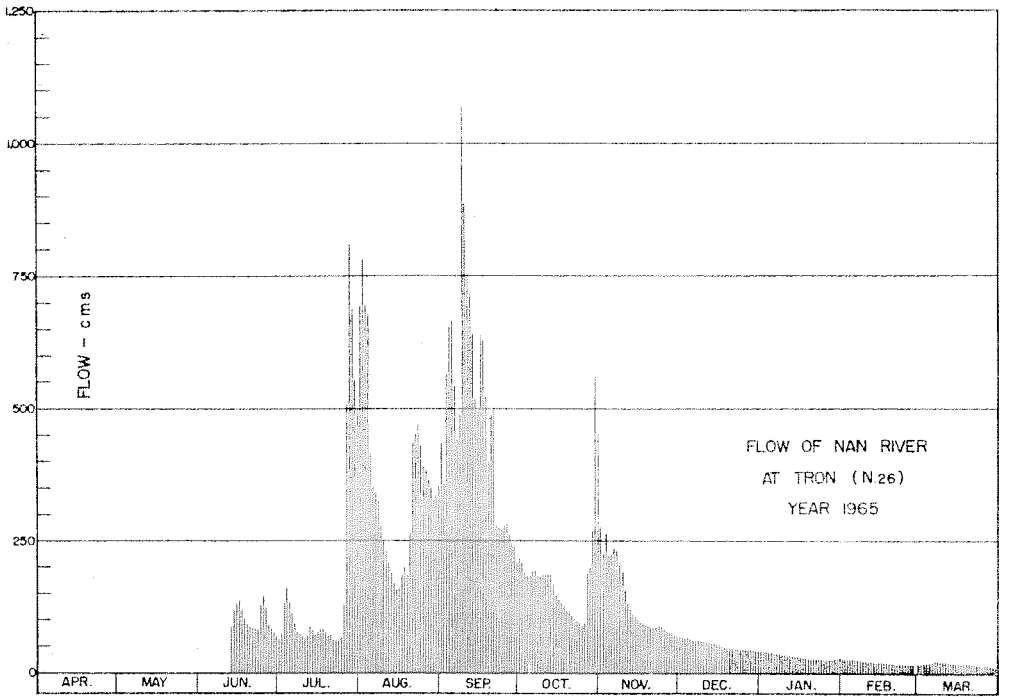
General Description: Records are classified as good. Discharge measurements were made by moving crew in 1965. No diversion is made above the gage site.

Remark: Gage height began to record on Jun. 13, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				1.00	4.43	3.31	2.13	2.50	1.04	0.75	0.57	0.40
2				.10	.77	2.93	.08	.20	.03	.75	.57	.41
3				.58	.43	3.89	1.96	.42	.02	.74	.56	.42
4				.79	.37	4.26	.93	.18	.00	.73	.55	.43
5				.60	3.23	.31	.94	.20	.00	.72	.54	.44
6				1.48	2.91	3.81	1.99	2.26	0.98	0.71	0.54	0.47
7				.28	.86	.35	2.01	.24	.98	.70	.54	.52
8				.13	.74	.57	1.94	.12	.97	.69	.51	.52
9				.10	.50	5.82	.93	.00	.97	.68	.50	.50
10				.04	.34	.16	.95	1.71	.96	.67	.50	.49
11				1.01	2.25	4.67	1.95	1.59	0.94	0.66	0.49	0.48
12				.08	.08	.51	.96	.51	.93	.65	.48	.47
13			1.22	.21	1.98	.20	.95	.41	.93	.64	.47	.46
14			.46	.16	.86	3.69	.83	.38	.91	.63	.46	.45
15			.58	.07	.75	.59	.68	.35	.90	.62	.46	.44
16			1.63	1.13	1.83	4.20	1.63	1.31	0.88	0.61	0.45	0.43
17			.48	.16	.96	.16	.57	.29	.86	.60	.45	.43
18			.36	.19	2.04	3.71	.53	.26	.84	.60	.44	.42
19			.26	.13	1.93	.14	.48	.24	.83	.59	.44	.41
20			.21	.05	2.44	.56	.46	.20	.82	.59	.44	.40
21			1.20	1.09	3.32	3.62	1.40	1.19	0.81	0.58	0.43	0.39
22			.18	0.98	.38	2.51	.34	.21	.80	.57	.43	.38
23			.18	.97	.48	.48	.30	.23	.80	.57	.43	.37
24			.52	.98	.30	.46	.28	.22	.80	.55	.42	.36
25			.67	1.04	.10	.50	.23	.18	.79	.55	.42	.35
26			1.49	1.58	3.08	2.52	1.24	1.14	0.79	0.55	0.41	0.34
27			.28	3.65	2.98	.39	.98	.13	.78	.55	.41	.32
28			.20	4.87	.90	.31	2.04	.10	.78	.54	.40	.31
29			.13	.41	.78	.27	.52	.07	.77	.55		.30
30			.05	3.85	.82	.08	3.88	.05	.76	.57		.29
31				.62	.92		.40		.75	.58		.29
Mean				1.66	2.25	3.49	1.88	1.56	0.88	0.47	0.40	0.41
Max.				4.87	4.77	5.82	3.88	2.50	1.04	0.75	0.57	0.52
Min.				0.97	1.75	2.08	1.23	1.05	0.75	0.54	0.40	0.29

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				65	693	434	215	278	69	42	28	17
2				75	780	357	207	226	68	42	28	18
3				132	693	563	187	264	67	41	27	18
4				162	679	652	183	223	65	40	27	19
5				135	417	664	184	226	65	40	26	19
6				119	353	543	192	237	63	39	26	21
7				95	343	442	195	233	63	38	26	24
8				78	321	489	184	213	62	37	24	24
9				75	278	1,070	183	193	62	36	23	23
10				69	250	885	186	150	61	36	23	22
11				66	235	754	186	134	59	35	22	22
12				73	207	713	187	123	58	34	22	21
13			88	87	190	637	186	110	58	33	21	21
14			117	82	172	516	167	107	56	32	21	20
15			132	72	156	494	146	103	55	32	21	19
16			139	78	167	637	139	98	53	31	20	19
17			119	82	187	627	131	96	51	30	20	19
18			104	85	200	520	126	93	50	30	19	18
19			93	78	184	398	119	90	49	29	19	18
20			87	70	267	487	117	86	48	29	19	17
21			86	74	436	500	109	85	47	29	19	16
22			84	63	449	280	102	87	46	28	19	16
23			84	62	470	274	97	89	46	28	19	15
24			125	63	432	271	95	88	46	26	18	15
25			145	69	390	278	89	84	45	26	18	14
26			121	132	386	282	90	79	45	26	18	14
27			95	507	366	260	190	78	44	26	18	13
28			86	807	351	245	200	75	44	26	17	12
29			78	688	328	238	282	72	44	26		11
30			70	553	336	207	560	70	43	28		11
31				500	355		453		42	29		11
Total				5,296	11,071	14,717	5,687	4,090	1,664	1,004	608	547
Mean				171	357	491	183	136	54	32	22	18
Max.				807	780	1,070	560	278	69	42	28	25
Min.				62	156	207	89	70	42	26	17	11
Runoff - mcm.				457.574	956.534	1,271.549	491.357	353.376	143.770	86.746	52.531	47.261

WATER YEAR 1965 : Max. 1,070 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 9	18.00	5.85	1,078				

WATER YEAR 1965
NAN RIVER BASIN

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

Location: Lat. 17° - 01' - 37" N., Long 100° - 12' - 12" E., 500 meters from Phiram market, Amphoe Phrom Phiram, Phitsanulok.

Drainage Area: 19,934 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
Location: BM. - H.S. 1, located on the left bank at the gage site,
Elevation: + 10.037 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 which is adequate for its mean daily value.

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, shifting adjustment is negligible in flow computation due to adequate stability.

Overbank Flow Conditions: No overbank flow

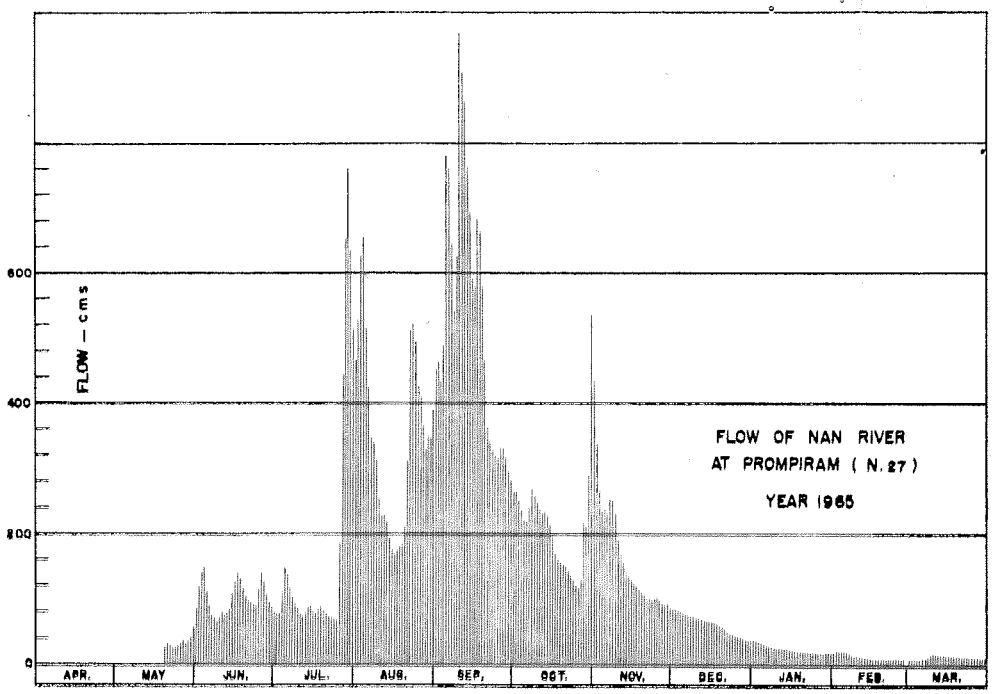
General Description: Records are classified as good. Discharge measurements were made by moving crew in 1965. No diversion is made above the gage site.

Remark: Gage height began to record on May 20, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.46	1.49	4.82	4.85	3.40	4.64	1.54	0.81	0.50	0.20
2			.59	.41	5.35	4.90	.40	3.76	.52	.79	.48	.20
3			2.14	.41	.94	.66	.22	.18	.51	.77	.49	.20
4			.27	.87	6.10	5.14	.08	.12	.49	.74	.50	.19
5			1.99	2.27	5.41	6.74	2.98	.14	.47	.71	.47	.19
6			1.64	2.20	4.62	6.66	2.98	3.12	1.44	0.70	0.45	0.19
7			.44	1.95	.02	5.97	3.12	.30	.42	.67	.41	.19
8			.33	.78	.04	.20	.43	.28	.41	.66	.38	.23
9			.28	.64	3.84	.87	.36	2.99	.40	.63	.34	.38
10			.37	.56	.27	7.75	.26	.71	.38	.60	.32	.38
11			1.46	1.44	3.06	7.48	3.13	2.48	1.36	0.60	0.31	0.37
12			.40	.41	.07	.14	.08	.32	.35	.60	.28	.36
13			.46	.43	2.88	6.81	.12	.18	.33	.58	.27	.35
14			.51	.57	.69	.14	.07	.12	.30	.57	.25	.34
15			.86	.57	.56	5.56	2.85	.06	.28	.55	.23	.34
16			2.04	1.47	2.48	5.56	2.60	2.00	1.28	0.55	0.23	0.33
17			.17	.45	.52	6.25	.48	1.96	.27	.54	.23	.32
18			.08	.52	.60	.16	.40	.88	.24	.53	.21	.31
19			1.94	.59	.75	5.53	.34	.83	.21	.51	.21	.31
20		0.61	.79	.55	.81	4.82	.30	.80	.16	.50	.20	.30
21		0.71	1.63	1.43	3.68	4.21	2.29	1.75	1.12	0.49	0.20	0.30
22		.65	.66	.41	5.22	.03	.19	.75	0.98	.48	.19	.29
23		.62	.61	.36	.32	3.93	.11	.74	.97	.47	.19	.29
24		.60	.60	.31	.24	.85	2.00	.75	.94	.47	.18	.29
25		.65	.85	.29	4.69	.85	1.96	.76	.93	.47	.20	.28
26		0.76	2.17	1.37	4.55	3.97	1.93	1.71	0.91	0.46	0.20	0.27
27		.80	1.97	3.83	.14	.97	.92	.65	.90	.45	.19	.26
28		.73	.80	5.37	3.87	.78	2.97	.63	.88	.49	.18	.25
29		.80	.67	6.68	4.09	.65	2.90	.61	.86	.48		.24
30		.88	.60	.16	.07	.57	3.55	.56	.84	.48		.23
31		1.10		5.22	.33		5.38		.83	.49		.23
Mean			1.73	2.19	4.00	5.26	2.88	2.26	1.21	0.58	0.30	0.28
Max.			2.27	6.68	6.10	7.75	5.38	4.64	1.54	0.81	0.50	0.38
Min.			1.28	1.29	2.48	3.57	1.92	1.56	0.83	0.45	0.18	0.19

WATER YEAR 1965 : Max. 7.75 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			77	79	447	451	263	421	83	34	19	7.60
2			87	73	528	459	263	305	81	33	18	7.60
3			135	73	626	423	243	239	81	32	19	7.60
4			146	110	654	495	228	232	79	31	19	7.26
5			121	146	538	771	217	234	77	29	18	7.26
6			91	140	418	757	217	232	75	28	17	7.26
7			75	117	338	631	232	252	73	27	15	7.26
8			67	103	340	505	266	250	73	26	14	8.68
9			64	91	315	614	259	218	72	25	13	14
10			70	85	249	966	247	189	71	24	12	14
11			77	75	225	913	233	166	69	24	11	14
12			72	73	226	847	228	151	68	24	10	13
13			77	74	206	785	232	138	67	23	10	13
14			81	85	187	661	226	133	65	22	9.40	13
15			109	85	174	562	203	127	64	21	8.68	13
16			126	77	166	562	178	122	64	21	8.68	12
17			137	76	170	681	166	118	63	21	8.68	12
18			129	81	178	664	158	111	61	20	7.96	11
19			117	87	193	557	153	107	59	19	7.96	11
20		24	103	84	199	447	149	104	56	19	7.60	11
21		29	94	74	296	362	148	100	53	19	7.60	11
22		26	93	73	508	339	139	100	45	18	7.26	11
23		25	89	69	523	327	132	99	44	18	7.26	11
24		23	88	66	511	316	122	100	42	18	6.92	11
25		26	109	64	428	316	118	101	42	18	7.60	10
26		32	137	70	408	332	116	97	40	17	7.60	10
27		34	119	314	353	332	115	92	40	17	7.26	10
28		30	104	531	319	308	216	90	39	19	6.92	9.40
29		34	93	760	347	292	208	89	37	18		9.04
30		39	88	664	344	282	280	85	36	18		8.68
31		46		508	378		533		36	19		8.68
Total			2,975	5,007	10,792	15,957	6,488	4,802	1,855	702	313	323
Mean			99	161	348	532	209	160	60	23	11	10
Max.			146	760	654	966	533	421	83	34	19	14
Min.			64	64	166	282	115	85	36	17	6.92	7.26
Runoff = mcm.			257.040	432.605	932.429	1,378.685	560.563	414.893	160.272	60.653	27.043	27.907

WATER YEAR 1966 : Max. 966 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 10	18.00	7.80	976	Jul. 29	15.00	6.70	764

WATER YEAR 1965
MAE KHONG RIVER BASIN
Mae Kok River at Mae Kok Bridge, Chiang Rai (G.2A)

Location: Lat. 19°– 55' – 16" N., Long 99°– 50' – 57" E., on the left bank about 20 meters downstream from Chiang Rai – Mae Chan highway bridge, Amphoe Muang Chiang Rai.

Drainage area: 2,088 sq.km. referred to AMS Map 1 : 50,000.

Type of gage: Staff gage.

Zero gage at bottom: +389.00 m. (M.S.L.)

Bench mark:

Location: Infront of Muang Chiang Rai Police Station.

Elevation: +393.90 m. (M.S.L.)

Gage reading frequency: 5 – time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.

Basis of mean daily gage height: Arithmetic mean of 5 readings.

Period of available gage records: 1958 to date.

Rating operation:

Period of rating: 1958 – 1960, 1967
Rated by float: –
Rated by current meter: 1958 – 1960, 1967

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

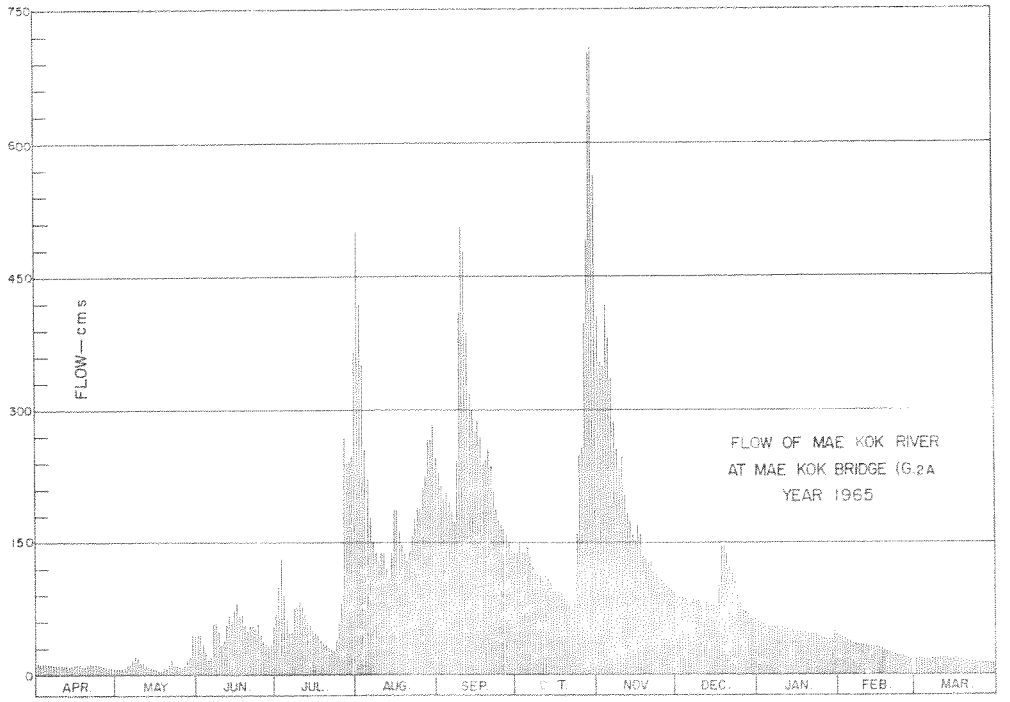
Overbank flow conditions: No overbank flow.

General description: Records are classified as fair. Stage – discharge relationship used is defined by discharge measurements made during 1967. No state diversions above gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	390.55	390.45	390.87	391.01	392.41	391.69	391.35	392.19	391.14	390.96	390.85	390.63
2	.54	.45	.86	.18	.22	.64	.40	.06	.13	.95	.84	.62
3	.54	.45	.77	.32	.05	.59	.35	.05	.12	.94	.83	.62
4	.53	.47	.71	.13	391.78	.62	.35	.22	.12	.93	.82	.61
5	.53	.52	.61	390.97	.67	.58	.38	.13	.11	.93	.81	.61
6	390.53	390.54	390.64	390.87	391.52	391.54	391.33	392.01	391.11	390.93	390.79	390.60
7	.53	.59	.95	.86	.40	.49	.28	391.87	.11	.93	.79	.63
8	.52	.65	.94	391.06	.35	.74	.25	.78	.10	.93	.78	.63
9	.52	.63	.88	.05	.31	392.20	.24	.72	.10	.92	.78	.63
10	.51	.57	.77	.09	.35	.42	.23	.75	.10	.92	.77	.62
11	390.51	390.55	390.81	391.06	391.35	392.36	391.21	391.61	391.10	390.92	390.77	390.62
12	.50	.51	.94	.02	.27	.14	.23	.53	.10	.91	.76	.62
13	.50	.50	391.00	390.95	.22	391.96	.22	.49	.09	.91	.75	.62
14	.51	.47	390.97	.93	.35	.91	.20	.44	.07	.90	.75	.61
15	.54	.46	391.05	.89	.55	.84	.16	.41	.07	.90	.74	.61
16	390.53	390.44	391.08	390.87	391.55	391.88	391.16	391.48	391.06	390.89	390.74	390.61
17	.52	.42	.00	.85	.45	.82	.15	.44	.19	.89	.73	.60
18	.51	.41	.00	.81	.39	.73	.14	.33	.38	.88	.72	.60
19	.50	.45	390.93	.79	.35	.74	.11	.32	.39	.88	.71	.60
20	.54	.45	.89	.76	.31	.78	.09	.30	.35	.87	.70	.59
21	390.53	390.54	390.92	390.74	391.36	391.72	391.06	391.31	391.28	390.87	390.69	390.59
22	.53	.59	.92	.72	.43	.63	.04	.26	.25	.86	.68	.58
23	.54	.51	.91	.71	.51	.55	.08	.24	.21	.86	.67	.58
24	.53	.50	.94	.82	.56	.50	.44	.23	.14	.85	.66	.57
25	.52	.50	.86	.95	.55	.48	.76	.22	.11	.84	.66	.57
26	390.51	390.46	390.80	391.08	391.64	391.46	392.07	391.20	391.06	390.83	390.65	390.56
27	.49	.52	.78	.82	.78	.43	.17	.18	.04	.83	.64	.56
28	.48	.60	.75	.73	.81	.40	.39	.17	.02	.83	.63	.55
29	.47	.65	.78	.74	.81	.36	.80	.16	.00	.84		.55
30	.46	.85	.93	.76	.86	.35	.81	.15	390.99	.89		.54
31		.85		392.09	.75		.54		.98	.86		.54
Mean	390.52	390.53	390.87	391.08	391.58	391.72	391.48	391.54	391.13	390.89	390.74	390.59
Max.	390.55	390.85	391.08	392.09	392.41	392.42	392.81	392.19	391.39	390.96	390.85	390.63
Min.	390.46	390.41	390.61	390.71	391.22	391.35	391.04	391.15	390.98	390.83	390.63	390.54

WATER YEAR 1965 : Max. 392.81 m. Min. 390.41 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	13	7.00	47	69	500	227	138	405	92	61	45	19
2	12	7.00	46	100	417	212	149	354	90	59	43	19
3	12	7.00	34	131	350	198	138	350	88	58	42	19
4	12	8.00	27	90	255	206	138	417	88	56	40	18
5	12	11	18	62	221	195	145	381	86	56	39	18
6	12	12	20	47	179	185	133	335	86	56	36	17
7	12	16	59	46	149	172	122	285	86	56	36	19
8	11	21	58	77	138	242	115	255	84	56	35	19
9	11	19	49	76	128	409	113	236	84	55	35	19
10	10	14	34	83	138	505	111	246	84	55	34	19
11	10	13	39	77	138	477	106	203	84	55	34	19
12	9.50	10	58	70	119	385	111	182	84	53	33	19
13	9.50	9.50	67	59	109	317	109	172	83	53	32	19
14	10	8.00	62	56	138	299	104	159	79	51	32	18
15	12	7.50	76	50	187	275	96	152	79	51	31	18
16	12	6.50	81	47	187	288	96	169	77	50	31	18
17	11	5.50	67	45	162	268	94	159	102	50	30	17
18	10	5.00	67	39	147	239	92	133	145	49	28	17
19	9.50	7.00	56	36	138	242	86	131	147	49	27	17
20	12	7.00	50	33	128	255	83	126	138	47	26	16
21	12	12	55	31	140	236	77	128	121	47	25	16
22	12	16	55	28	157	209	74	117	115	46	24	15
23	12	10	53	27	177	187	81	113	106	46	23	15
24	12	9.50	58	40	190	174	159	111	92	45	22	14
25	11	9.50	46	59	187	169	249	109	84	43	22	14
26	10	7.50	38	81	212	164	358	104	77	42	21	14
27	9.00	11	35	268	225	157	397	100	74	42	20	14
28	8.50	17	32	239	265	149	491	98	70	42	19	13
29	8.00	21	35	242	265	140	700	96	67	42		13
30	7.50	45	56	249	282	138	706	94	65	50		12
31		45		365	246		563		64	46		12
Total	324	404	1,478	2,922	6,274	7,319	6,134	5,920	2,821	1,567	865	516
Mean	11	13	49	94	202	244	198	197	91	50	31	17
Max.	13	45	81	365	500	505	706	405	147	61	45	19
Min.	7.50	5.00	18	27	109	138	74	94	64	42	19	12
Runoff - mcm.	27.994	34.906	127.699	252.461	542.074	632.362	529.978	511.488	243.734	135.389	74.736	44.582

WATER YEAR 1965 : Max. 706 Min. 5.00 Mean 100 Annual Runoff 3,157.402 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 30	06.00	392.83	719				

WATER YEAR 1965
PASAK RIVER BASIN

Pasak River at Kaeng Khoi, Sara Buri (S. 2)

Location: Lat. 14° – 35' – 32" N., Long 101° – 00' – 23" E., 100 meters downstream from Kaeng Khoi water supply, Amphoe Kaeng Khoi, Sara Buri.

Drainage Area: 14,396 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 5.84 m. (M.S.L.)

Bench Mark: BM.S. 2
Location: On the left bank near the gage site.
Elevation: + 20.130 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1914 to date.

Rating Operation:
Period of Rating: 1945, 1947 – 48, 1959 – 61, 1965 to date.
Rated by Float: 1945, 1947 – 48.
Rated by Current Meter: 1959 – 61, 1965 to date.

Stability of Channel Regimes: Stable during high flow, shifting adjustment is not included for flow computation due to its adequate stability. Discharges during dry period might not represent the true values.

Overbank Flow Conditions: No overbank flow.

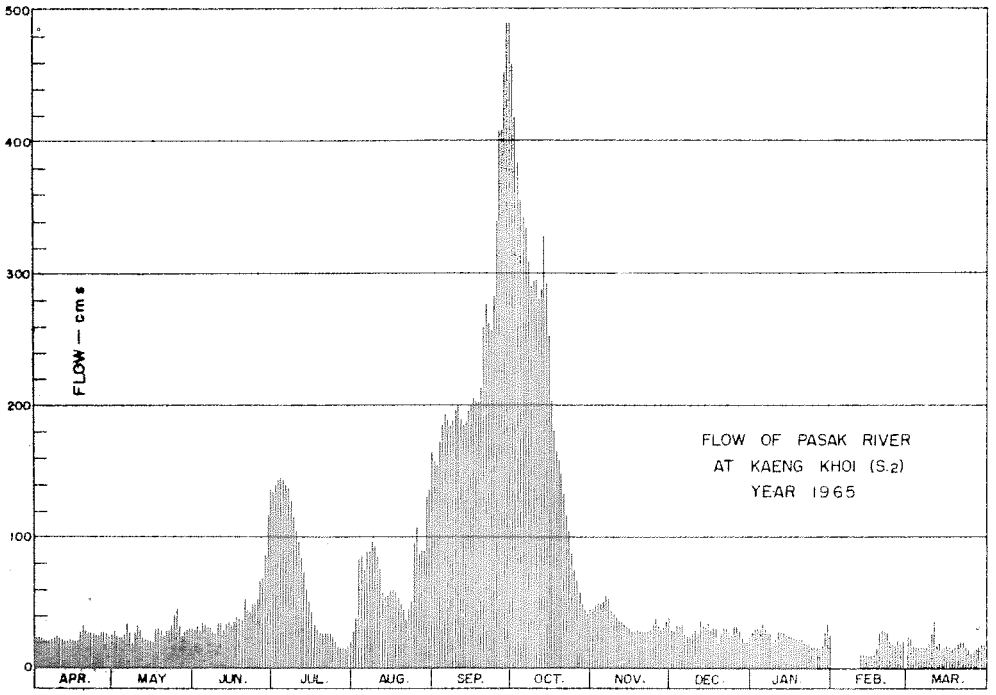
General Description: Records are classified as good. Water stage during dry period effected by backwater from Rama VI Barrage. Flow is diverted for irrigation of about 3,000 hectares above the station at Lom Sak Weir. The data presented is from actual flow at the gage site, no adjustment made for virgin flow.

Remark: No gage height record for Feb. 1 – 11.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.48	7.61	7.61	9.18	7.60	9.44	12.25	7.93	7.61	7.60		7.50
2	.47	.51	.66	.24	.79	.41	11.90	.97	.62	.64		.47
3	.47	.51	.58	.28	8.52	.61	.66	8.01	.69	.64		.34
4	.45	.50	.71	.29	.55	.74	.41	7.99	.67	.63		.31
5	.44	.57	.69	.28	.41	.84	.30	8.03	.69	.71		.31
6	7.44	7.71	7.66	9.24	8.60	9.79	11.21	8.09	7.55	7.64		7.29
7	.46	.58	.65	.21	.60	.75	10.98	.06	.52	.60		.30
8	.47	.39	.57	.11	.69	.78	.80	7.93	.52	.57		.29
9	.52	.59	.55	8.98	.66	.87	.84	.86	.56	.41		.40
10	.48	.70	.71	.80	.55	.90	.85	.81	.61	.48		.56
11	7.46	7.62	7.72	8.96	8.42	9.96	10.70	7.76	7.55	7.60		7.75
12	.44	.48	.61	.52	.14	.94	.78	.76	.75	.58	7.18	.33
13	.44	.46	.72	.38	.10	.94	11.16	.71	.69	.56	.15	.39
14	.45	.46	.74	.18	.12	10.05	10.83	.67	.66	.54	.13	.28
15	.43	.44	.69	.02	.16	.51	.44	.65	.73	.52	.14	.29
16	7.43	7.41	7.74	7.88	8.16	10.67	9.94	7.60	7.59	7.52	7.12	7.34
17	.46	.64	.82	.69	.14	.54	.71	.59	.63	.49	.16	.31
18	.60	.66	.77	.64	.08	.48	.56	.61	.63	.48	.31	.27
19	.70	.61	.76	.57	7.99	.67	.46	.60	.44	.47	.57	.30
20	.58	.53	8.06	.57	.92	11.26	.34	.60	.57	.47	.61	.39
21	7.56	7.60	7.90	7.57	7.79	11.59	9.16	7.60	7.66	7.39	7.59	7.40
22	.57	.62	.89	.56	.93	12.18	8.96	.59	.66	.38	.58	.40
23	.57	.69	.99	.56	8.03	11.96	.73	.62	.59	.38	.44	.31
24	.55	.85	.99	.52	.68	.71	.57	.72	.53	.31	.36	.24
25	.52	.92	8.06	.40	.83	.73	.42	.79	.67	.31	.35	.18
26	7.59	7.71	8.28	7.33	8.57	11.85	8.29	7.68	7.68	7.31	7.46	7.24
27	.59	.49	.31	.29	.62	.86	.14	.61	.62	.32	.37	.28
28	.57	.58	.56	.28	.60	12.21	7.99	.66	.48	.35	.43	.34
29	.53	.62	.98	.27	9.13	.49	.90	.75	.39	.60		.37
30	.54	.64	9.20	.32	.20	.50	.86	.82	.40	.71		.36
31		.64		.41	.52		.93		.53	.55		.35
Mean	7.50	7.59	7.90	8.17	8.39	10.70	9.90	7.76	7.59	7.50		7.35
Max.	7.70	7.92	9.20	9.29	9.52	12.50	12.25	8.09	7.75	7.71		7.75
Min.	7.43	7.39	7.55	7.27	7.60	9.41	7.86	7.59	7.39	7.31		7.18

WATER YEAR 1965 : Max. 12.50 m. Min.



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	24	30	30	135	29	158	458	46	30	29		25
2	24	25	32	140	39	155	415	49	30	31		24
3	24	25	29	144	84	173	386	51	34	31		18
4	23	25	35	145	86	185	357	50	33	31		17
5	22	28	34	144	76	194	344	52	34	35		17
6	22	35	32	140	90	190	335	56	27	31		17
7	23	29	32	138	90	186	309	54	26	29		17
8	24	20	28	129	97	189	290	46	26	28		17
9	26	29	27	116	94	197	295	42	28	21		21
10	24	34	35	105	86	200	296	40	30	24		28
11	23	30	35	97	76	206	280	37	27	29		37
12	22	24	30	84	59	204	288	37	37	29	12	18
13	22	23	35	74	56	204	329	35	34	28	12	20
14	23	23	36	61	57	214	294	33	32	27	11	16
15	22	22	34	52	60	260	253	32	36	26	11	17
16	22	21	36	44	60	277	204	29	29	26	11	18
17	23	31	40	34	59	263	182	29	31	24	12	17
18	29	32	38	31	55	257	167	30	31	24	17	16
19	34	30	38	28	50	277	159	29	22	24	28	17
20	29	26	54	28	46	340	149	29	28	24	30	20
21	28	29	45	28	39	377	134	29	32	20	29	21
22	28	30	44	28	46	450	117	29	32	20	29	21
23	28	34	50	28	52	422	100	30	29	20	22	17
24	27	42	50	26	96	392	88	35	26	17	19	15
25	26	46	54	21	108	394	76	39	33	17	19	12
26	29	35	67	18	88	409	68	33	33	17	23	15
27	29	25	69	17	91	410	59	30	30	18	20	16
28	28	29	87	16	90	454	50	32	24	19	22	18
29	26	30	118	16	131	490	45	37	20	29		20
30	27	31	137	18	137	491	42	40	21	35		19
31		31		21	165		46		26	27		19
Total	761	904	1,411	2,106	2,392	8,618	6,615	1,140	911	790		590
Mean	25	29	47	68	77	287	213	38	29	25		19
Max.	34	46	137	145	165	491	458	56	37	35		37
Min.	22	20	27	16	29	155	42	29	20	17		15
Runoff - mcm.	65.750	78.106	98.582	181.958	181.958	206.669	571.536	98.496	78.710	68.256		50.976

WATER YEAR 1965 : Max. 491 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 30	06.00	12.53	495				

WATER YEAR 1965
PASAK RIVER BASIN
Pasak River at Lom Sak, Phetchabun (S.6A)

Location: Lat. 16°- 49' - 52" N., Long. 101°- 17' - 57" E., at Lom Sak Irrigation Headwork, about 400 meters downstream from Lom Sak Weir, Phetchabun.

Drainage area: 1,007 sq.km. referred to AMS. Map 1:50,000

Type of gage: Staff gage

Zero gage at bottom at: +145.500 m. (M.S.L.)

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

Basis of mean daily gage height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

Period of available gage records: 1961 to date.

Rating operation:
Period of rating 1961, 1967
Rated by float -
Rated by current meter 1961, 1967

Stability of channel regimes: Stable, no shifting adjustment made for the year without actual rating.

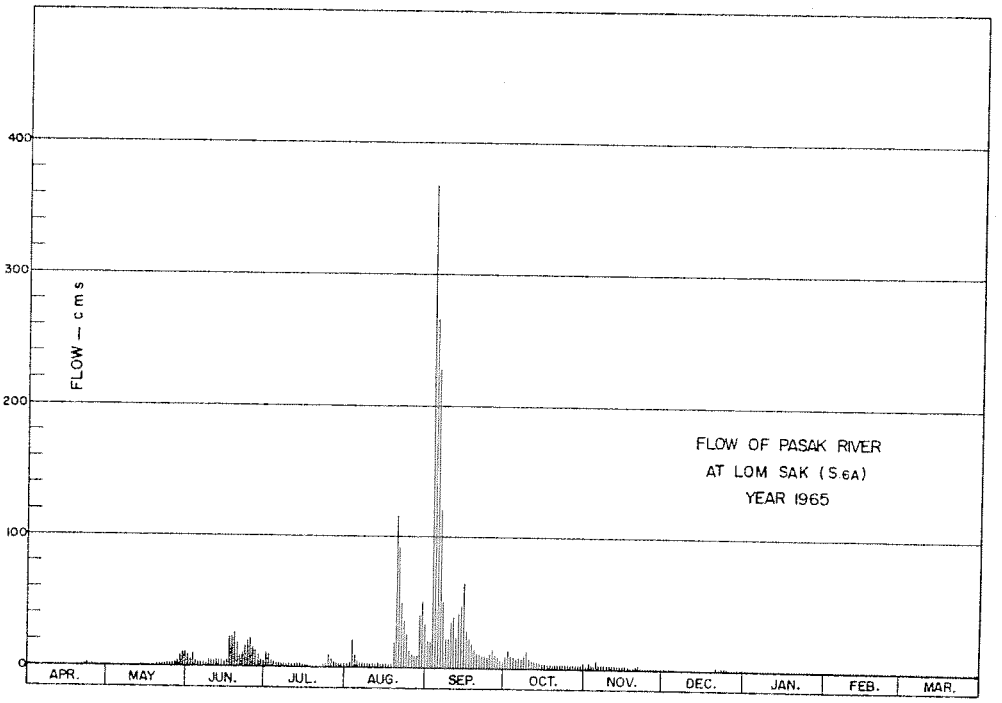
Overbank flow conditions: No overbank flow.

General description: Records are classified as good. Stage-discharge relationship is defined by discharge measurements made in 1961. Diversion is made for about 3,200 hectares above the gage site at Lom Sak Weir. The data presented is from actual flow at the gage site. No adjustment is made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.81	145.82	146.67	146.85	146.20	147.18	146.73	146.03	145.93	145.93	145.86	145.83
2	.81	.82	.41	.77	.25	.17	.89	.32	.93	.92	.86	.83
3	.81	.84	.79	.46	147.20	152.01	.67	.22	.92	.91	.86	.83
4	.80	.85	.36	.33	146.76	151.18	.61	.17	.91	.91	.86	.82
5	.80	.84	.26	.24	.37	150.80	.56	.50	.90	.91	.86	.82
6	145.80	145.84	146.27	146.19	146.29	149.40	146.60	146.27	145.90	145.90	145.86	145.82
7	.82	.86	.09	.19	.25	148.04	.57	.26	.90	.90	.86	.81
8	.82	.86	.13	.16	.22	147.25	.75	.21	.90	.90	.86	.80
9	.83	.88	.45	.16	.19	.25	.90	.16	.90	.90	.86	.80
10	.82	.90	.39	.14	.14	.65	.55	.14	.90	.90	.86	.79
11	145.82	145.91	146.38	146.12	146.11	147.74	146.46	146.11	145.90	145.90	145.86	145.79
12	.82	.91	.45	.12	.10	.28	.39	.10	.89	.90	.86	.79
13	.83	.89	.39	.10	.21	.80	.35	.10	.84	.90	.86	.79
14	.87	.88	.36	.09	.14	.94	.30	.07	.83	.90	.86	.78
15	.91	.89	.30	.07	.11	.34	.29	.06	.83	.89	.86	.78
16	145.90	145.88	146.39	146.00	146.10	147.43	146.26	146.04	145.81	145.88	145.86	145.77
17	.88	.90	147.27	145.99	.05	.26	.22	.00	.81	.88	.86	.77
18	.86	.92	.27	.96	.03	.07	.20	145.96	.82	.88	.86	.77
19	.87	.89	.39	.94	147.11	146.93	.13	.95	.80	.87	.86	.77
20	.92	.97	.10	.79	149.32	.82	.10	146.06	.86	.87	.86	.77
21	145.95	146.00	146.69	145.76	148.92	146.75	146.15	146.04	146.18	145.87	145.86	145.77
22	146.04	.02	.79	.75	.03	.70	.15	145.93	145.93	.87	.86	.76
23	.05	.02	147.00	146.01	147.65	.66	.14	.95	146.00	.87	.86	.76
24	146.82	.05	.16	.18	.32	.62	.13	.96	.04	.87	.86	.76
25	146.00	.05	.24	.76	146.88	.81	.13	.95	145.99	.87	.86	.76
26	145.96	146.07	146.96	146.54	146.77	146.94	146.11	145.94	145.98	145.87	145.86	145.76
27	.93	.20	.87	.53	.73	.68	.09	.91	.97	.87	.86	.76
28	.90	.45	.66	.20	.70	.63	.08	.91	.96	.87	.86	.76
29	.86	.67	.46	.20	147.78	.46	.08	.93	.95	.87		.76
30	.83	.80	.44	.18	148.03	.31	.09	.93	.95	.87		.76
31		.84		.19	147.60		.34		.95	.87		.76
Mean	145.90	146.02	146.65	146.24	146.82	147.64	146.35	146.12	145.91	145.89	145.86	145.78
Max.	146.05	146.84	147.39	146.85	149.32	152.01	146.90	146.50	146.18	145.93	145.86	145.83
Min.	145.80	145.82	146.09	145.75	146.10	146.31	146.08	145.91	145.80	145.87	145.86	145.76

WATER YEAR 1965 : Max. 152.01 m. Min. 145.75 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.36	0.40	9.05	12	3.00	20	9.95	2.15	1.20	1.10	0.60	0.45
2	0.36	0.40	5.15	10	3.50	20	13	4.20	1.20	1.00	0.60	0.45
3	0.36	0.50	11	5.90	21	367	9.05	3.20	1.00	0.90	0.60	0.45
4	0.30	0.55	4.60	4.30	10	265	8.15	2.85	0.90	0.90	0.60	0.40
5	0.30	0.50	3.60	3.40	4.70	227	7.40	6.50	0.80	0.90	0.60	0.40
6	0.30	0.50	3.70	2.95	3.90	121	8.00	3.70	0.80	0.80	0.60	0.40
7	0.40	0.60	2.45	2.95	3.50	51	7.55	3.60	0.80	0.80	0.60	0.36
8	0.40	0.60	2.65	2.80	3.20	22	10	3.10	0.80	0.80	0.60	0.32
9	0.45	0.70	5.75	2.80	2.95	22	13	2.80	0.80	0.80	0.60	0.32
10	0.40	0.80	4.90	2.70	2.70	35	7.25	2.70	0.80	0.80	0.60	0.30
11	0.40	0.90	4.80	2.60	2.55	39	5.90	2.55	0.80	0.80	0.60	0.30
12	0.40	0.90	5.75	2.60	2.50	23	4.90	2.50	0.75	0.80	0.60	0.30
13	0.45	0.75	4.90	2.50	3.10	41	4.50	2.50	0.50	0.80	0.60	0.30
14	0.65	0.70	4.60	2.45	2.70	47	4.00	2.35	0.45	0.80	0.60	0.28
15	0.90	0.75	4.00	2.35	2.55	64	3.90	2.30	0.45	0.75	0.60	0.28
16	0.80	0.70	4.90	2.00	2.50	28	3.60	2.20	0.36	0.70	0.60	0.25
17	0.65	0.80	23	1.80	2.25	23	3.20	2.00	0.36	0.70	0.60	0.25
18	0.60	1.00	23	1.40	2.15	18	3.00	1.40	0.40	0.70	0.60	0.25
19	0.65	0.75	27	1.20	19	14	2.65	1.30	0.32	0.60	0.60	0.25
20	1.00	1.50	18	0.30	116	11	2.50	2.30	0.60	0.60	0.60	0.25
21	1.30	2.00	9.35	0.22	92	10	2.75	2.20	2.90	0.60	0.60	0.25
22	2.20	2.10	11	0.20	50	9.50	2.75	1.20	1.10	0.60	0.60	0.22
23	2.25	2.10	16	2.05	35	8.90	2.70	1.30	2.00	0.60	0.60	0.22
24	0.40	2.25	20	2.90	25	8.30	2.65	1.40	2.20	0.60	0.60	0.22
25	2.00	2.25	22	10	13	11	2.65	1.30	1.80	0.60	0.60	0.22
26	1.40	2.35	15	7.10	10	14	2.55	1.20	1.60	0.60	0.60	0.22
27	1.10	3.00	13	4.30	9.95	9.20	2.45	0.90	1.50	0.60	0.60	0.22
28	0.80	5.75	8.90	3.00	9.50	8.45	2.40	0.90	1.40	0.60	0.60	0.22
29	0.60	9.05	5.90	3.00	40	5.90	2.40	1.10	1.30	0.60		0.22
30	0.45	11	5.60	2.90	50	4.10	2.45	1.10	1.30	0.60		0.22
31		12		2.95	53		4.40		1.30	0.60		
Total	23	68	299	108	581	1,547	162	69	32	23	17	9.01
Mean	0.75	2.20	9.98	3.47	19	51	521	2.29	1.05	0.73	0.60	0.29
Max.	2.25	12	27	12	116	367	13	6.50	2.90	1.10	0.60	0.45
Min.	0.30	0.40	2.45	0.20	2.15	4.10	2.40	0.90	0.32	0.60	0.60	0.22
Runoff - MCM.	1.987	5.875	25.834	9.331	50.198	135.661	13.997	5.962	2.765	1.987	1.469	0.778

WATER YEAR 1965 : Max. 367 Min. 0.20 Mean 8.05 Annual Runoff 253.843 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 3	18.00	153.25	614				

WATER YEAR 1965
PASAK RIVER BASIN

Lam Muak Lek at Kaeng Khoi, Sara Buri (S. 7) (IHD. Station)

Location: Lat. 14° - 38' - 04" N., Long 101° - 12' - 37" E., about 50 meters upstream from Bangkok - Nakhon Ratchasima highway bridge, Tambon Muak Lek, Amphoe Kaeng Khoi, Sara Buri.

Drainage Area: 177 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water-stage recorder.

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

Bench Mark: B.M. 1
- Location: On the right bank, 30 meters along the measuring line.
- Elevation: + 6.865 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashly flood whose hourly flow readings are necessary, hourly gage heights are used.

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, shifting adjustment is negligible for flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

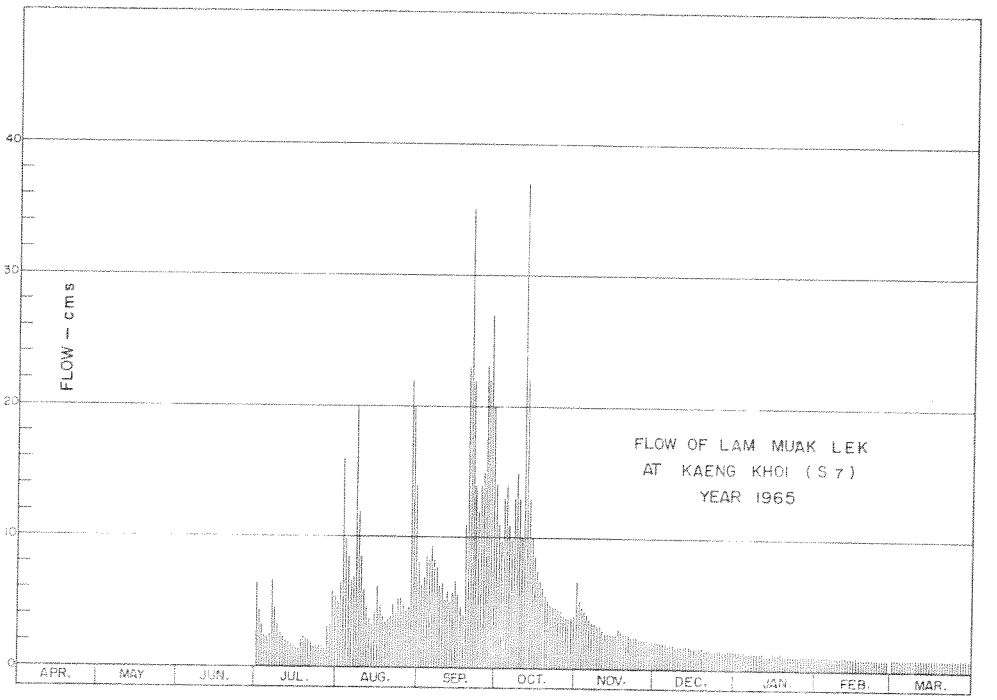
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on Jul. 1, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				0.98	0.89	1.08	1.39	0.99	0.68	0.62	0.59	0.57
2				0.85	0.98	0.97	.22	.90	.67	.62	.59	.57
3				0.77	1.46	1.01	.16	.87	.67	.62	.58	.57
4				0.71	.17	.10	.31	.85	.67	.62	.58	.57
5				0.69	.10	.08	.39	.83	.67	.61	.59	.57
6				0.71	0.99	1.14	1.24	0.81	0.66	0.61	0.59	0.56
7				0.99	1.01	.09	.14	.79	.66	.61	.59	.56
8				0.86	.64	.06	.31	.79	.66	.61	.58	.56
9				0.78	.28	0.97	.42	.77	.65	.61	.58	.56
10				0.73	.07	.98	.31	.77	.65	.61	.58	.56
11				0.70	0.95	0.91	1.19	0.75	0.65	0.61	0.58	0.56
12				0.68	.87	.94	2.26	.73	.65	.60	.58	.56
13				0.66	.81	.89	1.71	.73	.65	.60	.58	.56
14				0.65	.78	.93	.34	.72	.65	.60	.58	.56
15				0.64	.84	.99	.19	.72	.64	.61	.58	.56
16				0.63	0.96	0.93	1.10	0.72	0.64	0.61	0.58	0.56
17				0.62	.88	.87	.04	.75	.64	.61	.57	.56
18				0.68	.82	.83	0.99	.74	.64	.61	.57	.56
19				0.70	.80	1.24	.96	.73	.64	.60	.57	.56
20				0.69	.81	.76	.92	.73	.63	.59	.57	.56
21				0.68	0.82	2.19	0.90	0.72	0.63	0.59	0.57	0.56
22				0.66	.88	1.72	.88	.71	.63	.59	.57	.56
23				0.64	.84	.35	.87	.71	.62	.59	.57	.56
24				0.64	.91	.27	.87	.71	.62	.59	.57	.56
25				0.64	.91	.29	.86	.69	.63	.59	.57	.56
26				0.64	0.88	1.42	0.85	0.69	0.63	0.59	0.57	0.56
27				0.63	.85	.74	.83	.69	.62	.59	.57	.56
28				0.76	.87	.71	.82	.69	.62	.59	.57	.56
29				0.78	1.69	.88	.82	.68	.62	.59		.56
30				0.94	.62	.60	.82	.68	.62	.59		.56
31				0.92	.35		.83		.62	.59		.55
Mean				0.73	1.02	1.23	1.13	0.76	0.64	0.60	0.58	0.56
Max.				0.99	1.69	2.19	2.26	0.99	0.68	0.62	0.59	0.57
Min.				0.62	0.78	0.83	0.82	0.68	0.62	0.59	0.57	0.55

WATER YEAR 1965 : Max. 2.26 m. Min. - m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				6.48	5.04	8.24	14	6.64	2.16	1.44	1.12	0.96
2				4.40	6.48	6.32	11	5.20	2.04	1.44	1.12	0.96
3				3.24	16	6.98	9.74	4.70	2.04	1.44	1.04	0.96
4				2.52	9.93	8.60	13	4.40	2.04	1.44	1.04	0.96
5				2.28	8.60	8.24	14	4.08	2.04	1.32	1.12	0.96
6				2.52	6.64	9.36	11	3.76	1.92	1.32	1.12	0.88
7				6.64	6.98	8.42	9.36	3.48	1.92	1.32	1.12	0.88
8				4.56	20	7.88	13	3.48	1.92	1.32	1.04	0.88
9				3.36	12	6.32	15	3.24	1.80	1.32	1.04	0.88
10				2.76	8.60	6.48	13	3.24	1.80	1.32	1.04	0.88
11				2.40	6.00	5.36	10	3.00	1.80	1.32	1.04	0.88
12				2.16	4.72	5.84	37	2.76	1.80	1.20	1.04	0.88
13				1.92	3.76	5.04	22	2.76	1.80	1.20	1.04	0.88
14				1.80	3.36	5.68	15	2.64	1.80	1.20	1.04	0.88
15				1.68	4.24	6.64	10	2.64	1.68	1.32	1.04	0.88
16				1.56	6.16	5.68	8.60	2.64	1.68	1.32	1.04	0.88
17				1.44	4.88	4.72	7.52	3.00	1.68	1.32	0.96	0.88
18				2.16	3.92	4.08	6.64	2.88	1.68	1.32	0.96	0.88
19				2.40	3.60	11	6.16	2.76	1.68	1.20	0.96	0.88
20				2.28	3.76	23	5.52	2.76	1.56	1.12	0.96	0.88
21				2.16	3.92	35	5.20	2.64	1.56	1.12	0.96	0.88
22				1.92	4.88	22	4.88	2.52	1.56	1.12	0.96	0.88
23				1.68	4.24	14	4.72	2.52	1.44	1.12	0.96	0.88
24				1.68	5.36	12	4.72	2.52	1.14	1.12	0.96	0.88
25				1.68	5.36	14	4.56	2.28	1.56	1.12	0.96	0.88
26				1.64	4.88	15	4.40	2.28	1.56	1.12	0.96	0.88
27				1.56	4.40	23	4.08	2.28	1.44	1.12	0.96	0.88
28				3.12	4.72	22	3.92	2.28	1.44	1.12	0.96	0.88
29				3.36	22	27	3.92	2.16	1.44	1.12		0.88
30				5.84	20	20	3.92	2.16	1.44	1.12		0.88
31				5.52	14		4.08		1.44	1.12		0.80
Total				89	238	358	298	94	53	38	28	27
Mean				2.86	7.69	12	9.61	3.12	1.71	1.24	1.02	0.89
Max.				6.64	22	35	37	6.64	2.16	1.44	1.12	0.96
Min.				1.44	3.36	4.08	3.92	2.16	1.44	1.12	0.96	0.80
Runoff - mcm.				7.690	20.563	30.931	25.747	8.122	4.579	3.283	2.419	2.333

WATER YEAR 1965 : Max. 37 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 12	11.00	4.18	105				

WATER YEAR 1965
MUNE RIVER BASIN

Mune River at Tha Chang, Nakhon Ratchasima (M.2)

Location: Lat. 15° – 00' – 03" N., Long 102° – 15' – 57" E., on the right bank, 100 meters west of Ban Tha Chang school, 30 meters south of railway pumping station, Amphoe Chakkarat, Nakhon Ratchasima.

Drainage Area: 4,800 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 158.50 m. (M.S.L.)

Bench Mark: B.M.-H.S./R.I.D. No. 1004
Location: 10 meters from right bank of the river along the gage line.
Elevation: + 165.140 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1950 to date.

Rating Operation:
Period of Rating: 1960
Rated by Float: –
Rated by Current Meter: 1960

Stability of Channel Regimes: Stable, no shifting adjustment is made for years without actual rating.

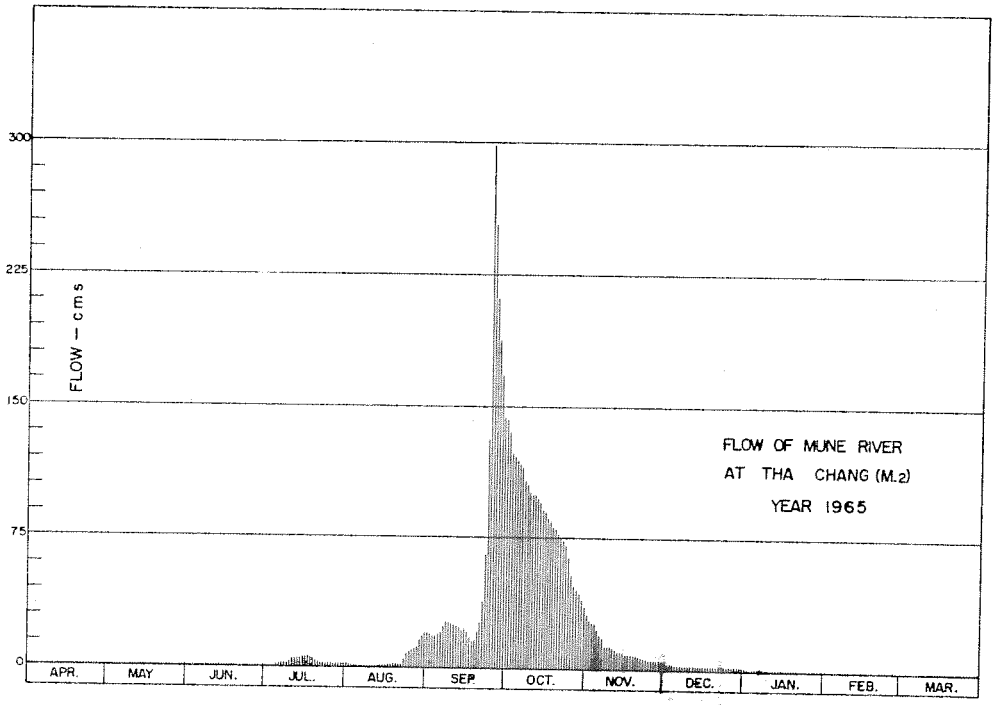
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made in 1960. No upstream diversion is made except some tank irrigations.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	159.51	159.30	159.25	159.51	159.98	162.39	165.49	163.04	160.58	159.94	159.60	159.28
2	.51	.29	.29	.53	.96	.29	.44	162.84	.49	.93	.58	.28
3	.50	.29	.35	.55	.92	.24	.34	.74	.42	.92	.56	.27
4	.50	.27	.35	.88	.87	.19	.32	.71	.36	.91	.55	.27
5	.49	.27	.36	160.06	.84	.29	.30	.46	.32	.91	.54	.26
6	159.49	159.26	159.37	160.20	159.83	162.45	165.28	162.26	160.30	159.90	159.52	159.26
7	.48	.26	.38	.20	.81	.64	.26	.16	.27	.88	.50	.25
8	.47	.26	.39	.25	.77	.75	.18	161.69	.25	.87	.49	.25
9	.47	.25	.38	.33	.74	.73	.13	.67	.24	.86	.47	.25
10	.47	.26	.37	.44	.72	.68	.06	.66	.22	.85	.46	.24
11	159.46	159.26	159.37	160.67	159.73	162.63	165.03	161.59	160.21	159.84	159.45	159.24
12	.45	.27	.36	.74	.75	.59	.03	.52	.20	.83	.44	.24
13	.44	.28	.34	.81	.77	.53	.00	.45	.20	.82	.44	.23
14	.44	.28	.33	.84	.81	.44	164.96	.39	.19	.81	.43	.23
15	.43	.28	.33	.89	.87	.47	.90	.33	.18	.79	.41	.23
16	159.42	159.28	159.32	160.90	159.92	162.38	164.86	161.28	160.18	159.78	159.39	159.22
17	.41	.27	.34	.91	.96	.10	.81	.24	.16	.78	.37	.22
18	.40	.27	.35	.88	.98	161.86	.77	.19	.15	.76	.36	.22
19	.39	.26	.42	.78	160.01	.96	.69	.15	.14	.76	.35	.21
20	.39	.26	.49	.63	159.99	162.44	.65	.10	.13	.75	.33	.21
21	159.38	159.25	159.51	160.38	160.00	162.73	164.61	161.05	160.12	159.73	159.33	159.21
22	.37	.24	.50	.28	.07	163.39	.56	160.99	.11	.72	.32	.21
23	.37	.23	.49	.24	.76	164.30	.51	.93	.09	.71	.31	.20
24	.36	.22	.50	.22	161.17	165.40	.46	.84	.08	.70	.31	.20
25	.35	.21	.50	.20	.32	166.05	.26	.77	.06	.69	.30	.19
26	159.33	159.20	159.49	160.18	161.42	165.93	163.96	160.75	160.05	159.68	159.29	159.19
27	.32	.19	.48	.17	.52	.80	.78	.73	.03	.67	.29	.19
28	.32	.18	.46	.16	.61	.72	.66	.72	.00	.66	.28	.19
29	.32	.17	.45	.14	162.00	.63	.58	.70	159.98	.65		.18
30	.31	.16	.46	.09	.23	.51	.49	.68	.97	.63		.18
31		.19		.02	.37		.27		.95	.62		.18
Mean	159.42	159.25	159.39	160.42	160.38	163.29	164.65	161.49	160.19	160.78	159.42	159.22
Max.	159.51	159.30	159.51	160.91	162.37	166.05	165.49	163.04	160.58	159.94	159.60	159.28
Min.	159.31	159.16	159.25	159.51	159.72	161.86	163.27	160.68	159.95	159.62	159.28	159.18

WATER YEAR 1965 : Max. 166.05 m. Min. 159.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	0.22	0.17	0.49	1.62	20	142	31	4.10	1.49	0.64	0.20
2	0.49	0.21	0.21	0.52	1.56	19	135	28	3.63	1.46	0.61	0.20
3	0.47	0.21	0.29	0.55	1.43	18	123	26	3.30	1.43	0.57	0.19
4	0.47	0.19	0.29	1.31	1.28	18	121	26	3.03	1.40	0.55	0.19
5	0.46	0.19	0.30	1.87	1.20	19	119	22	2.86	1.40	0.54	0.18
6	0.46	0.18	0.32	2.35	1.17	21	117	19	2.77	1.37	0.50	0.18
7	0.45	0.18	0.33	2.35	1.11	24	115	18	2.64	1.31	0.47	0.17
8	0.44	0.18	0.35	2.56	1.00	26	108	13	2.56	1.28	0.46	0.17
9	0.44	0.17	0.33	2.90	0.94	26	105	13	2.52	1.25	0.44	0.17
10	0.44	0.18	0.32	3.39	0.90	25	101	13	2.43	1.22	0.43	0.17
11	0.43	0.18	0.32	4.57	0.92	24	99	12	2.39	1.20	0.41	0.17
12	0.41	0.19	0.30	4.97	0.96	24	99	11	2.35	1.17	0.40	0.17
13	0.40	0.20	0.28	5.39	1.00	23	97	10	2.35	1.14	0.40	0.16
14	0.40	0.20	0.26	5.59	1.11	21	95	10	2.31	1.11	0.39	0.16
15	0.39	0.20	0.26	5.93	1.28	22	91	9.30	2.28	1.05	0.37	0.16
16	0.38	0.20	0.25	6.00	1.43	20	89	8.84	2.28	1.02	0.35	0.15
17	0.37	0.19	0.28	6.08	1.56	17	86	8.52	2.21	1.02	0.32	0.15
18	0.36	0.19	0.29	5.86	1.62	15	84	8.14	2.17	0.99	0.30	0.15
19	0.35	0.18	0.38	5.19	1.71	16	81	7.90	2.14	0.99	0.29	0.14
20	0.35	0.18	0.46	4.36	1.65	21	79	7.60	2.10	0.96	0.26	0.14
21	0.33	0.17	0.49	3.11	1.68	26	77	7.20	2.07	0.92	0.26	0.14
22	0.32	0.17	0.47	2.69	1.90	38	75	6.72	2.03	0.90	0.25	0.14
23	0.32	0.16	0.46	2.52	5.07	65	73	6.24	1.97	0.87	0.23	0.13
24	0.30	0.15	0.47	2.43	8.02	130	71	5.59	1.94	0.85	0.23	0.13
25	0.29	0.14	0.47	2.35	9.20	298	64	5.13	1.87	0.83	0.22	0.12
26	0.26	0.13	0.46	2.28	10	253	53	5.02	1.84	0.81	0.21	0.12
27	0.25	0.12	0.45	2.24	11	211	47	4.91	1.78	0.79	0.21	0.12
28	0.25	0.12	0.43	2.21	12	188	45	4.85	1.68	0.77	0.20	0.12
29	0.25	0.11	0.41	2.14	16	167	43	4.73	1.62	0.74		0.12
30	0.23	0.10	0.43	1.97	18	145	40	4.62	1.59	0.70		0.12
31		0.12		1.74	20		35		1.52	0.68		0.12
Total	11	5.31	10	98	138	1,940	2,709	357	72	33	10	4.75
Mean	0.37	0.17	0.33	3.16	4.45	65	87	12	2.32	1.06	0.36	0.15
Max.	0.49	0.22	0.49	6.08	20	298	142	31	4.10	1.49	0.64	0.20
Min.	0.23	0.10	0.17	0.49	0.90	15	35	4.62	1.52	0.68	0.20	0.12
Runoff — MCM.	0.950	0.459	0.864	8.467	11.923	167.616	234.058	30.845	6.221	2.851	0.864	0.410

WATER YEAR 1965 : Max. 298 Min. 0.10 Mean 15 Annual Runoff 465.523 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 25	18.00	166.10	316				

WATER YEAR 1965
MUNE RIVER BASIN

Mune River at Seriprachatipatai Bridge, Ubol Ratchathani.(M. 7)

Location: Lat. 15° - 13' - 17" N., Long 104° - 15' - 39" E., on the left bank at the second and third abutments of Seriprachatipatai Bridge, Amphoe Muang, Ubol Ratchathani.

Drainage Area: 106,673 sq. km. referred to AMS. Map.1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 105.00 m. (M.S.L.)

Bench Mark: B.M. H.S. M.7
Location: On the left bank near the bridge.
Elevation: + 113.317 m. (M.S.L.)

Gage Reading Frequency: 2 - time daily readings at 09.00 - and 15.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1944 to date.

Rating Operation:
Period of Rating: 1956 - 58, 1964 to date.
Rated by Float: -
Rated by Current Meter: 1956 - 58, 1964 to date.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation because discharge measurements are made by moving crew, good judgement for shifting cannot be done.

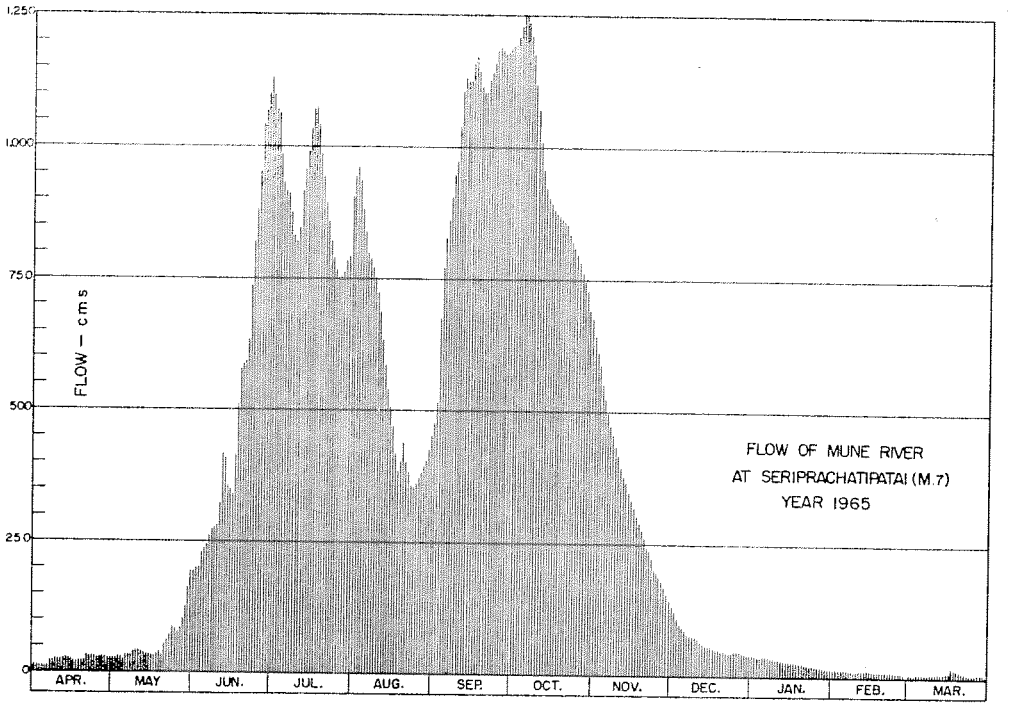
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made during 1964 to 1965. No diversions are made upstream of the gage site except series of tank irrigation, the total number of 140 tanks with capacity of 420 mcm. and irrigated area of 64,200 hectares.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	106.42	106.53	107.20	109.52	109.15	107.98	109.77	108.41	106.99	106.58	106.43	106.37
2	.41	.53	.21	.46	.19	108.09	.78	.33	.94	.57	.43	.37
3	.41	.52	.22	.43	.13	.49	.82	.26	.89	.56	.43	.36
4	.41	.51	.30	.25	.00	.73	.87	.18	.86	.56	.42	.36
5	.41	.49	.32	.12	108.89	.87	.87	.12	.83	.56	.42	.36
6	106.41	106.53	107.35	109.09	108.80	108.95	109.84	108.04	106.79	106.55	106.42	106.35
7	.47	.53	.39	.07	.77	109.06	.78	107.98	.77	.55	.42	.35
8	.47	.55	.42	108.98	.73	.16	.68	.93	.76	.54	.42	.35
9	.48	.58	.44	.88	.69	.22	.56	.87	.75	.54	.41	.35
10	.48	.59	.47	.85	.62	.38	.45	.82	.73	.54	.41	.35
11	106.48	106.58	107.62	108.91	108.52	109.53	109.31	107.77	106.71	106.54	106.41	106.35
12	.49	.57	.82	109.08	.39	.59	.19	.72	.70	.53	.41	.35
13	.50	.56	.80	.18	.27	.58	.10	.68	.69	.52	.41	.35
14	.49	.54	.65	.27	.15	.58	.06	.63	.68	.52	.41	.36
15	.48	.54	.64	.37	.06	.66	.03	.59	.67	.51	.41	.37
16	106.47	106.53	107.74	109.45	107.97	109.69	109.00	107.55	106.66	106.51	106.41	106.42
17	.47	.53	.82	.46	.83	.63	108.99	.51	.65	.50	.41	.45
18	.47	.55	108.07	.38	.74	.56	.97	.47	.64	.49	.40	.43
19	.47	.56	.25	.25	.79	.53	.96	.43	.63	.49	.40	.42
20	.47	.55	.27	.14	.88	.53	.95	.39	.62	.49	.40	.41
21	106.54	106.67	108.28	109.03	107.79	109.58	108.93	107.35	106.62	106.48	106.39	106.39
22	.53	.70	.40	108.94	.73	.62	.89	.32	.61	.48	.39	.38
23	.53	.77	.65	.85	.66	.66	.86	.28	.61	.47	.38	.37
24	.52	.80	.85	.78	.65	.72	.83	.24	.61	.47	.38	.36
25	.53	.79	109.00	.72	.67	.73	.79	.20	.62	.46	.38	.35
26	106.54	106.77	109.17	108.68	107.70	109.72	108.76	107.18	106.62	106.46	106.38	106.35
27	.55	.81	.38	.69	.73	.71	.71	.15	.61	.45	.38	.35
28	.54	.87	.44	.71	.76	.71	.67	.11	.60	.45	.37	.35
29	.53	.97	.52	.76	.80	.72	.63	.06	.60	.44		.35
30	.53	107.09	.59	.90	.85	.74	.54	.03	.59	.44		.34
31		.17		109.06	.92		.49		.58	.43		.34
Mean	106.48	106.65	108.08	109.07	108.22	109.36	109.16	107.62	106.69	106.50	106.40	106.36
Max.	106.55	107.17	109.59	109.52	109.19	109.74	109.87	108.41	106.99	106.58	106.43	106.45
Min.	106.41	106.49	107.20	108.68	107.65	107.98	108.49	107.03	106.58	106.43	106.37	106.34

WATER YEAR 1965 : Max. 109.87 m. Min. 106.34 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	33	198	1,100	945	476	1,206	643	135	42	17	8.40
2	14	33	201	1,075	962	517	1,210	611	121	40	17	8.40
3	14	31	205	1,063	937	675	1,228	583	108	38	17	7.20
4	14	30	232	987	882	771	1,249	552	100	38	15	7.20
5	14	26	239	932	837	829	1,249	529	93	38	15	7.20
6	14	33	249	920	800	861	1,236	498	84	36	15	6.00
7	23	33	263	911	788	907	1,210	476	79	36	15	6.00
8	23	36	274	874	771	949	1,167	457	77	35	15	6.00
9	25	42	281	833	755	974	1,117	435	75	35	14	6.00
10	25	43	291	820	727	1,042	1,071	416	71	35	14	6.00
11	25	42	344	845	687	1,105	1,012	398	66	35	14	6.00
12	26	40	416	916	635	1,130	962	380	64	33	14	6.00
13	28	38	409	958	587	1,126	924	366	62	31	14	6.00
14	26	35	355	995	540	1,126	907	348	60	31	14	7.20
15	25	35	351	1,037	506	1,159	895	333	58	30	14	8.40
16	23	33	387	1,071	472	1,172	882	319	56	30	14	15
17	23	33	416	1,075	420	1,147	878	305	54	28	14	20
18	23	36	510	1,042	387	1,117	870	291	53	26	12	17
19	23	38	579	987	405	1,105	866	277	51	26	12	15
20	23	36	587	941	439	1,105	861	263	49	26	12	14
21	35	58	591	895	405	1,126	853	249	49	25	11	11
22	33	64	639	857	384	1,142	837	239	47	25	11	9.60
23	33	79	739	820	359	1,159	825	225	47	23	9.60	8.40
24	31	86	820	792	355	1,185	812	212	47	23	9.60	7.20
25	33	84	882	767	362	1,189	796	198	49	22	9.60	6.00
26	35	79	953	751	373	1,185	784	192	49	22	9.60	6.00
27	36	88	1,042	755	384	1,180	763	182	47	20	9.60	6.00
28	35	103	1,067	763	395	1,180	747	170	45	20	8.40	6.00
29	33	130	1,100	784	409	1,185	731	155	45	18		6.00
30	33	164	1,130	841	427	1,193	695	147	43	18		4.80
31		189		907	453		675		42	17		4.80
Total	763	1,830	15,750	28,314	17,788	31,017	29,518	10,449	2,026	902	366	259
Mean	25	59	525	913	574	1,034	952	348	65	29	13	8.35
Max.	36	189	1,130	1,100	962	1,193	1,249	643	135	42	17	20
Min.	14	26	198	751	355	476	675	147	42	17	8.40	4.80
Runoff - mcm.	65.923	158.112	1,360.800	2,446.300	1,536.883	2,679.689	2,550.355	902.794	175.046	77.933	31.622	22.378

WATER YEAR 1965 : Max. 1,249 Min. 4.80 Mean 380 Annual Runoff 12,008.045 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 5	15.00	109.87	1,249	Jun. 30	15.00	109.59	1,130

WATER YEAR 1965
MUNE RIVER BASIN

Huai Samran at Highway Bridge, Si Sa Ket (M.9)

Location: Lat. 15° – 07' – 00" N., Long 104° – 19' – 20" E., on the left bank downstream of the bridge, 200 meters north of the city jail, Amphoe Muang, Si Sa Ket.

Drainage Area: 3,026 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 109.00 m. (M.S.L.)

Bench Mark: BM. No. 0339
Location: At the bridge on the right bank.
Elevation: + 123.034 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1951
Rated by Float: –
Rated by Current Meter: 1951

Stability of Channel Regimes: Stable, no shifting adjustment is made for years without actual rating.

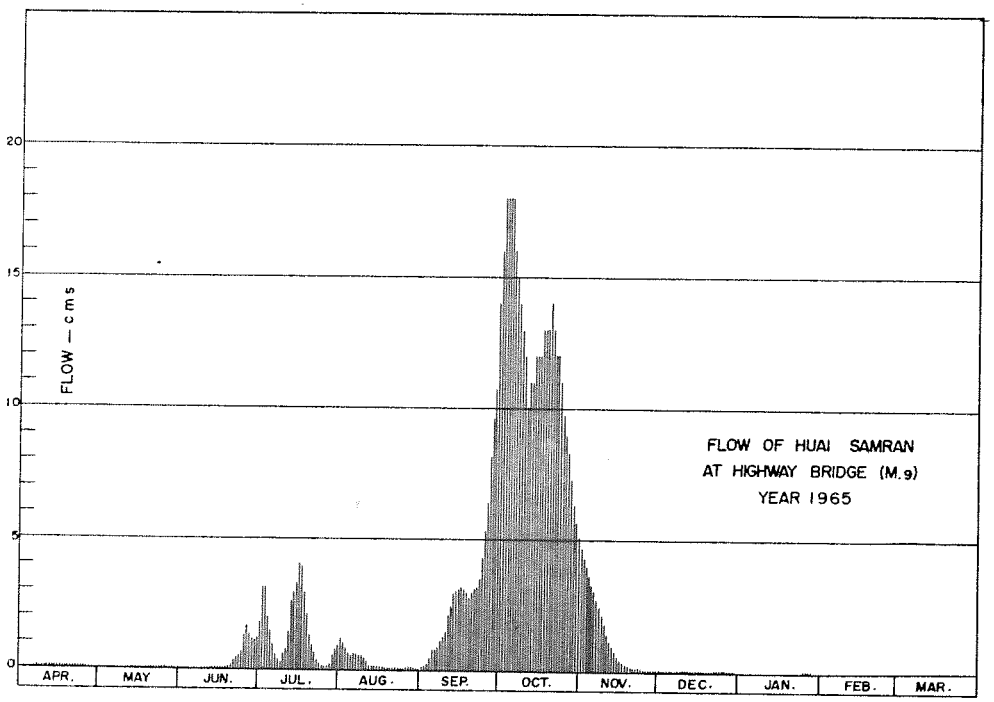
Overbank Flow Conditions: No overbank flow.

General Description: Stage record is classified as good and discharge record is classified as fair. Stage-discharge relationship used is defined by discharge measurements made in 1951. No upstream diversions are made.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.28	109.34	109.52	110.85	110.64	109.73	112.66	111.51	109.54	109.31	109.27	109.24
2	.27	.34	.53	111.20	.59	.76	.76	.44	.49	.29	.27	.24
3	.25	.33	.44	.20	.49	110.07	.80	.38	.47	.28	.27	.23
4	.27	.33	.41	110.90	.37	.28	.79	.30	.46	.27	.28	.23
5	.31	.28	.40	.75	.30	.46	.75	.23	.46	.27	.29	.23
6	109.43	109.30	109.39	110.55	110.36	110.46	112.67	111.17	109.45	109.27	109.29	109.22
7	.51	.32	.33	.33	.35	.51	.60	.10	.45	.26	.30	.22
8	.65	.37	.35	.20	.32	.61	.53	.02	.44	.25	.31	.23
9	.64	.43	.37	.08	.30	.68	.44	110.93	.44	.25	.30	.24
10	.58	.41	.40	.35	.24	.73	.34	.82	.43	.27	.30	.24
11	109.47	109.42	109.38	110.45	110.13	110.93	112.20	110.71	109.40	109.29	109.29	109.23
12	.64	.38	.45	.69	109.93	111.03	.21	.62	.39	.30	.28	.23
13	.59	.38	.45	111.05	.84	.16	.24	.53	.38	.30	.28	.24
14	.54	.38	.55	.16	.80	.18	.30	.42	.37	.29	.28	.24
15	.50	.36	.58	.22	.74	.19	.32	.33	.36	.29	.27	.28
16	109.43	109.33	109.56	111.39	109.71	111.20	112.35	110.24	109.35	109.30	109.27	109.27
17	.33	.29	.57	.37	.71	.18	.41	.18	.35	.29	.27	.29
18	.30	.36	.58	.15	.68	.16	.43	.10	.34	.28	.26	.30
19	.30	.41	.68	110.93	.64	.11	.44	.06	.33	.28	.25	.28
20	.62	.76	.83	.73	.61	.15	.46	109.99	.33	.28	.24	.26
21	109.61	109.75	110.14	110.54	109.66	111.19	112.44	109.94	109.43	109.27	109.24	109.26
22	.60	.77	.27	.38	.70	.21	.38	.88	.53	.27	.24	.27
23	.56	.58	.30	.18	.63	.29	.33	.79	.58	.28	.24	.27
24	.43	.57	.38	.07	.60	.44	.23	.69	.54	.31	.23	.25
25	.42	.38	.70	109.94	.57	.63	.13	.61	.51	.36	.27	.24
26	109.44	109.39	110.80	109.91	109.66	111.78	112.06	109.57	109.45	109.40	109.27	109.24
27	.43	.47	.71	.91	.75	.98	.00	.56	.40	.37	.27	.24
28	.40	.76	.62	110.01	.70	112.12	111.88	.54	.38	.35	.28	.27
29	.37	.65	.62	.33	.65	.27	.77	.53	.35	.32		.25
30	.36	.55	.67	.45	.63	.50	.67	.53	.32	.31		.24
31		.51		.53	.66		.59		.31	.28		.25
Mean	109.45	109.45	109.83	110.62	109.93	111.07	112.33	110.39	109.42	109.29	109.27	109.25
Max.	109.65	109.77	110.80	111.39	110.64	112.50	112.80	111.51	109.58	109.40	109.31	109.30
Min.	109.25	109.28	109.33	109.91	109.57	109.73	111.59	109.53	109.31	109.25	109.23	109.22

WATER YEAR 1965 : Max. 112.80 m. Min. 109.22 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.01	0.05	1.82	1.20	0.11	16	4.68	0.05	0.00	0.00	0.00
2	0.00	0.01	0.05	3.15	1.08	0.12	18	4.31	0.04	0.00	0.00	0.00
3	0.00	0.01	0.03	3.15	0.86	0.26	18	4.00	0.03	0.00	0.00	0.00
4	0.00	0.01	0.02	2.00	0.64	0.49	18	3.60	0.03	0.00	0.00	0.00
5	0.00	0.00	0.02	1.50	0.52	0.80	18	3.28	0.03	0.00	0.00	0.00
6	0.03	0.00	0.02	0.99	0.62	0.80	16	3.01	0.03	0.00	0.00	0.00
7	0.04	0.00	0.01	0.57	0.60	0.90	15	2.70	0.03	0.00	0.00	0.00
8	0.08	0.01	0.01	0.39	0.55	1.12	14	2.42	0.03	0.00	0.00	0.00
9	0.08	0.03	0.01	0.26	0.52	1.30	13	2.10	0.03	0.00	0.00	0.00
10	0.06	0.02	0.02	0.60	0.44	1.44	12	1.72	0.03	0.00	0.00	0.00
11	0.03	0.02	0.02	0.78	0.31	2.10	10	1.38	0.02	0.00	0.00	0.00
12	0.08	0.02	0.03	1.32	0.17	2.45	11	1.15	0.02	0.00	0.00	0.00
13	0.08	0.02	0.03	2.52	0.14	2.97	11	0.95	0.02	0.00	0.00	0.00
14	0.05	0.02	0.05	2.97	0.13	3.06	12	0.73	0.01	0.00	0.00	0.00
15	0.04	0.02	0.06	3.28	0.11	3.10	12	0.57	0.01	0.00	0.00	0.00
16	0.03	0.01	0.06	4.05	0.10	3.15	12	0.44	0.01	0.00	0.00	0.00
17	0.01	0.00	0.06	3.95	0.10	3.06	13	0.37	0.01	0.00	0.00	0.00
18	0.00	0.01	0.06	2.92	0.09	2.97	13	0.28	0.01	0.00	0.00	0.00
19	0.00	0.02	0.09	2.10	0.08	2.74	13	0.25	0.01	0.00	0.00	0.00
20	0.08	0.12	0.14	1.44	0.07	2.92	14	0.19	0.01	0.00	0.00	0.00
21	0.07	0.11	0.32	0.97	0.09	3.10	13	0.17	0.03	0.00	0.00	0.00
22	0.07	0.12	0.48	0.66	0.10	3.19	12	0.15	0.05	0.00	0.00	0.00
23	0.06	0.06	0.52	0.37	0.08	3.55	12	0.13	0.06	0.00	0.00	0.00
24	0.03	0.06	0.66	0.26	0.07	4.31	11	0.10	0.05	0.00	0.00	0.00
25	0.02	0.02	1.35	0.17	0.06	5.35	9.73	0.07	0.04	0.01	0.00	0.00
26	0.03	0.02	1.65	0.16	0.09	6.36	8.96	0.06	0.03	0.02	0.00	0.00
27	0.03	0.03	1.38	0.16	0.11	8.12	8.30	0.06	0.02	0.02	0.00	0.00
28	0.02	0.12	1.15	0.21	0.10	9.62	7.22	0.05	0.02	0.01	0.00	0.00
29	0.01	0.08	1.15	0.57	0.09	11	6.30	0.05	0.01	0.00		0.00
30	0.01	0.05	1.27	0.78	0.08	14	5.62	0.05	0.00	0.00		0.00
31		0.04		0.95	0.09		5.10		0.00	0.00		0.00
Total	1.04	1.06	11	45	9.29	104	378	39	0.77	0.06	0.00	0.00
Mean	0.03	0.03	0.36	1.45	0.30	3.47	12	1.30	0.02	0.00	0.00	0.00
Max.	0.08	0.12	1.65	4.05	1.20	14	18	4.68	0.05	0.02	0.00	0.00
Min.	0.00	0.00	0.01	0.16	0.06	0.11	5.10	0.05	0.00	0.00	0.00	0.00
Runoff - mcm.	0.090	0.091	0.950	3.888	0.803	8.986	32.659	3.370	0.067	0.005	0.000	0.000

WATER YEAR 1965 : Max. 18 Min. 0.00 Mean 1.61 Annual Runoff 50.909 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	06.00	112.80	18				

WATER YEAR 1965
MUNE RIVER BASIN

Lam Ta Khong at Sikhiu, Nakhon Ratchasima (M. 38C)

Location: Lat. 14° – 52' – 06" N., Long 101° – 33' – 53" E., on the left bank, 500 meters downstream from Lam Ta Khong Damsite, Tambon Khlong Phai, Amphoe Sikhiu, Nakhon Ratchasima.

Drainage Area: 1,292 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 242.00 m. (M.S.L.)

Bench Mark:
- Location: On the left bank, 50 meters upstream from the gage site.
- Elevation: + 251.885 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1962 to date.

Rating Operation:
- Period of Rating: 1962 to date.
- Rated by Float: –
- Rated by Current Meter: 1962 to date.

Stability of Channel Regimes: Stable, periodic rating curves are used for flow computation taking into account backwater.

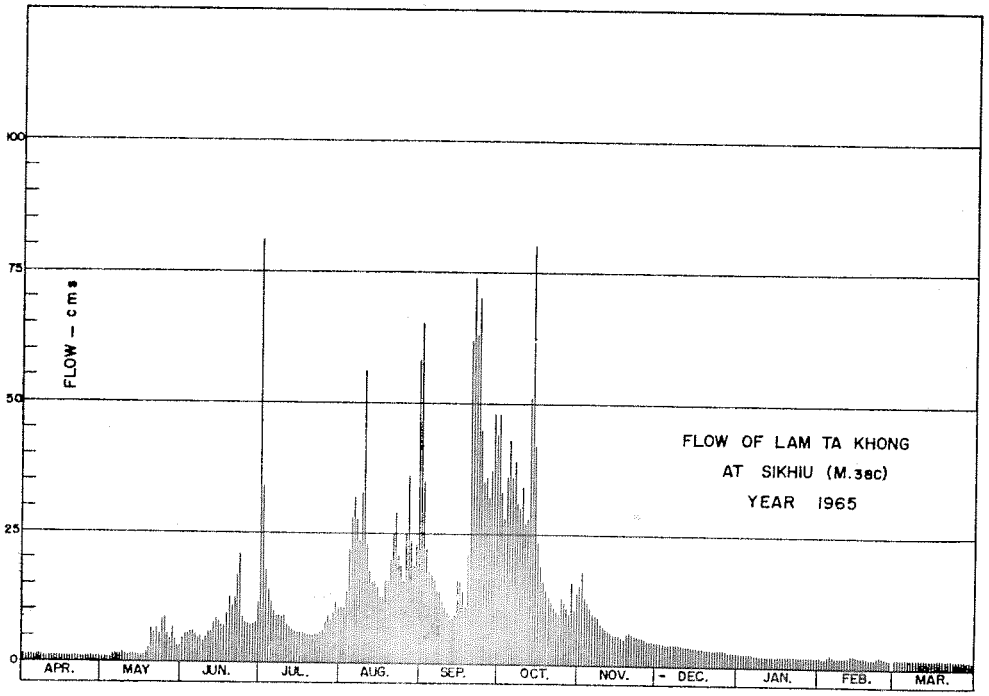
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Water stage during dry period is affected by contracted channel built by farmers for water wheel diversion. No state diversions are made upstream of the gage site, except those made by the farmers.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	244.29	244.09	245.52	249.07	246.24	248.62	248.05	246.55	245.29	244.72	244.41	244.35
2	.27	.06	.70	247.54	.20	247.60	247.53	.75	.26	.71	.40	.36
3	.28	.06	.70	246.76	.53	.01	.32	.45	.23	.68	.40	.34
4	.38	.08	.91	.49	.99	246.79	.63	.31	.22	.67	.55	.30
5	.27	.32	.95	.31	247.28	.69	.90	.21	.22	.65	.64	.29
6	244.32	244.45	245.72	246.16	247.49	246.64	247.64	246.17	245.22	244.64	244.53	244.27
7	.36	.44	.50	.03	.29	.53	.73	.07	.21	.63	.45	.28
8	.27	.32	.64	.05	.11	.48	.43	.01	.18	.63	.42	.29
9	.24	.50	.66	.01	.52	.36	.38	245.89	.17	.62	.40	.28
10	.22	.32	.60	.05	248.32	.26	.57	.81	.14	.62	.41	.27
11	244.20	244.34	245.86	245.87	247.06	246.16	247.27	245.75	245.13	244.62	244.42	244.26
12	.22	.45	246.61	.79	246.79	.08	.31	.70	.06	.61	.46	.25
13	.20	.47	.51	.72	.67	245.99	248.15	.65	.05	.60	.59	.24
14	.22	.37	.65	.66	.62	246.11	249.06	.54	.04	.58	.59	.22
15	.22	.30	.52	.62	.57	.61	247.87	.55	.02	.57	.53	.22
16	244.22	244.30	246.34	245.62	246.40	246.61	247.11	245.58	245.01	244.55	244.52	244.22
17	.20	.33	.34	.61	.42	.47	246.86	.47	244.99	.53	.48	.22
18	.20	.56	.79	.60	.64	.21	.66	.46	.97	.53	.42	.22
19	.19	.88	247.09	.56	.63	.94	.52	.63	.96	.52	.38	.22
20	.20	246.04	246.91	.53	.87	248.51	.40	.65	.94	.51	.35	.21
21	244.22	245.78	247.09	245.53	247.16	248.88	246.29	245.60	244.94	244.49	244.36	244.20
22	.18	246.12	.32	.56	.35	.56	.20	.54	.93	.48	.39	.17
23	.18	245.81	.49	.59	246.96	.77	.13	.52	.93	.45	.43	.16
24	.17	246.63	246.76	.64	.85	247.95	.10	.51	.92	.45	.58	.14
25	.16	.69	.51	.68	.65	.58	.40	.49	.89	.45	.53	.14
26	244.21	245.71	246.47	245.91	247.15	247.64	246.30	245.45	244.88	244.45	244.40	244.13
27	.19	.38	.32	246.02	.63	.49	.21	.41	.85	.46	.35	.12
28	.14	246.13	.43	245.96	.12	.69	.16	.38	.82	.43	.33	.09
29	.14	245.32	.53	246.10	246.83	248.06	.64	.36	.80	.42		.09
30	.10	244.97	.98	.31	247.05	247.93	.23	.33	.78	.42		.08
31		245.01		.22	248.41		.48		.76	.42		.08
Mean	244.22	244.91	246.35	246.05	246.99	247.17	247.05	245.76	245.03	244.55	244.45	244.22
Max.	244.38	246.69	247.49	249.07	248.41	248.88	249.06	246.75	245.29	244.72	244.64	244.36
Min.	244.10	244.06	245.50	245.53	246.20	245.99	246.10	245.33	244.76	244.42	244.33	244.08

WATER YEAR 1965 : Max. 249.06 m. Min. 244.06 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.52	1.08	5.00	81	11	65	48	15	4.48	2.71	2.01	1.89
2	1.47	1.01	5.54	34	11	35	33	18	4.38	2.69	1.99	1.91
3	1.50	1.01	5.54	18	14	22	28	13	4.27	2.61	1.99	1.88
4	1.54	1.06	6.17	14	22	18	36	12	4.23	2.59	2.31	1.80
5	1.47	1.59	6.29	12	28	17	43	11	4.23	2.54	2.52	1.78
6	1.59	1.89	5.60	10	32	16	36	10	4.23	2.52	2.27	1.75
7	1.68	1.87	4.94	9.22	28	14	39	9.58	4.20	2.49	2.09	1.76
8	1.47	1.59	5.36	9.40	24	14	31	9.04	4.09	2.49	2.03	1.78
9	1.41	2.02	4.42	9.09	33	12	30	8.02	4.05	2.47	1.99	1.76
10	1.36	1.59	5.24	9.40	56	11	34	7.42	3.94	2.47	2.01	1.75
11	1.32	1.63	6.02	7.87	23	10	27	6.99	3.91	2.47	2.03	1.73
12	1.36	1.89	6.30	7.27	18	9.67	28	6.64	3.67	2.44	2.12	1.71
13	1.32	1.94	7.97	6.78	16	8.86	51	6.32	3.64	2.42	2.40	1.69
14	1.36	1.70	8.52	6.38	16	9.95	80	5.64	3.61	2.38	2.40	1.66
15	1.36	1.54	8.00	6.13	15	16	42	5.70	3.54	2.35	2.27	1.66
16	1.36	1.54	7.46	6.13	13	16	24	5.88	3.51	2.31	2.24	1.66
17	1.32	1.61	7.46	6.06	13	14	19	5.26	3.45	2.27	2.16	1.66
18	1.32	2.18	9.52	6.00	16	11	16	5.21	3.40	2.27	2.03	1.66
19	1.30	3.08	13	5.76	16	21	14	6.19	3.37	2.24	1.95	1.66
20	1.32	6.56	11	5.58	20	62	13	6.32	3.31	2.22	1.89	1.64
21	1.36	5.78	13	5.58	25	74	12	6.00	3.31	2.18	1.91	1.62
22	1.28	6.80	17	5.76	29	63	11	5.64	3.28	2.16	1.97	1.57
23	1.28	5.87	21	5.94	21	70	10	5.52	3.28	2.09	2.05	1.56
24	1.25	8.41	9.28	6.26	19	45	9.85	5.46	3.26	2.09	2.38	1.53
25	1.23	8.74	7.97	6.51	16	35	13	5.35	3.17	2.09	2.27	1.53
26	1.34	5.57	7.85	8.18	25	36	12	5.16	3.15	2.09	1.99	1.51
27	1.30	4.58	7.40	9.13	36	32	11	4.97	3.06	2.12	1.89	1.50
28	1.19	6.83	7.73	8.61	24	37	10	4.84	2.98	2.05	1.86	1.46
29	1.19	4.40	8.03	9.85	19	48	16	4.76	2.93	2.03		1.46
30	1.10	3.35	12	12	23	44	11	4.64	2.88	2.03		1.44
31		3.47		11	58		14		2.82	2.03		1.44
Total	41	102	252	359	720	886	802	225	112	72	59	51
Mean	1.37	3.29	8.40	11	23	29	26	7.50	3.61	2.32	2.12	1.64
Max.	1.68	8.74	21	81	58	74	80	18	4.48	2.71	2.52	1.91
Min.	1.10	1.01	4.42	5.58	11	8.86	9.85	4.64	2.82	2.03	1.86	1.44
Runoff - mcm.	3.542	8.813	21.773	31.018	62.208	76.550	69.293	19.440	9.677	6.221	5.098	4.406

WATER YEAR 1965 : Max. 81 Min. 1.01 Mean 10 Annual Runoff 318.038 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 14	20.00	249.32	87	Sept. 20	06.00	249.04	39

WATER YEAR 1965
MUNE RIVER BASIN

Lam Ta Khong at Khao Yai, Nakhon Ratchasima (M. 43)

Location: Lat. 14° – 31' – 40" N., Long 101° – 24' – 09" E., on the left bank, infront of highway maintenance office, Khao Yai, Amphoe Pak Chong, Nakhon Ratchasima.

Drainage Area: 235 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water – stage recorder.

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

Bench Mark:
- Location: On the left bank near the gage site.
- Elevation: + 5.592 m. (A.D.)

Gage Reading Frequency: Recording

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

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: Very stable, shifting adjustment is negligible for flow computation due to its excellent stability.

Overbank Flow Conditions: No overbank flow.

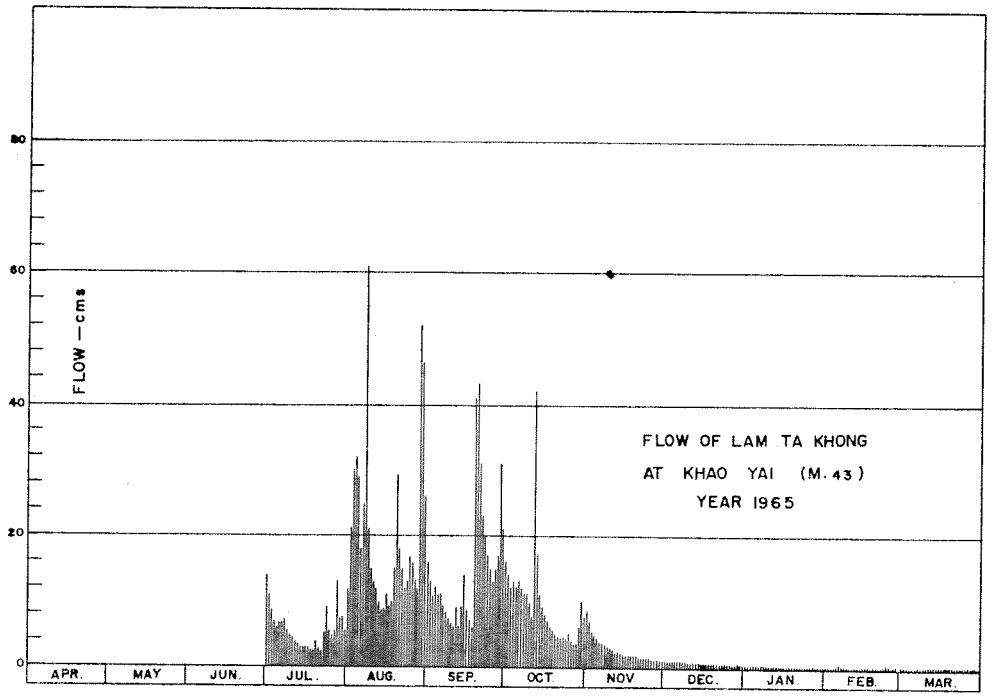
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on Jul. 1, 1965.
* Estimate data.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				1.45	1.37 *	1.53	1.53	1.22	0.73	0.63	0.57	0.59
2				.33	.68 *	.40	.44	.15	.73	.62	.56	.59
3				.22	.93	.34	.36	.05	.73	.62	.56	.57
4				.14	.98	.38	.42	.01	.73	.62	.58	.54
5				.09	.91	.32	.37	0.98	.73	.62	.61	.53
6				1.13	1.57	1.32	1.40	0.96	0.72	0.62	0.65	0.53
7				.13	.80	.25	.35	.94	.71	.62	.60	.52
8				.15	2.53	.21	.32	.92	.71	.62	.59	.52 *
9				.05	1.67	.16	.31	.90	.71	.62	.57	.53 *
10				.00	.49	.13	.27	.89	.70	.61	.57	.53 *
11				0.97	1.41	1.10	1.18	0.87	0.70	0.61	0.56	0.54 *
12				.95	.36	.24	2.21	.85	.70	.61	.56	.54
13				.93	.28	.11	1.54	.85	.70	.60	.56	.54
14				.91	.23	.25	.34	.84	.70	.60	.56	.54
15				.89	.24	.43	.24	.83	.69	.60	.59	.53
16				0.89	1.32	1.22	1.19	0.82	0.69	0.60	0.58	0.55
17				.89	.25	.15	.15	.82	.69	.60	.57	.55
18				.87	.29	.10	.10	.82	.68	.59	.56	.54
19				.86	.47	2.19	.07	.81	.68	.59	.56	.55
20				.96	.91	.23	.03	.81	.67	.59	.56	.56
21				0.88	1.58	1.94	1.01	0.80	0.66	0.59	0.55	0.53
22				.86	.49	.72	0.99	.79	.66	.59	.55	.52
23				1.03	.36	.65	.99	.78	.66	.58	.55	.53
24				.24	.40	.56	.99	.77	.66	.58	.64	.53
25				.05	.55	.48	1.03	.77	.65	.58	.60	.52
26				1.02	1.51	1.41	0.96	0.75	0.65	0.58	0.59	0.53
27				.07	.39	.48	.93	.75	.64	.58	.59	.53
28				.42	.35	.54	.93	.75	.64	.58	.58	.52
29				.16	2.44	.96	1.10	.74	.64	.57		.50
30				.18	.30	.68	.28	.74	.63	.57		.49
31				.07	1.82		.17		.63	.57		.52
Mean				1.06	1.61	1.45	1.23	0.87	0.68	0.60	0.58	0.54
Max.				1.45	2.53	2.23	2.21	1.22	0.73	0.63	0.65	0.59
Min.				0.86	1.23	1.10	0.93	0.74	0.63	0.57	0.55	0.49

WATER YEAR 1965 : Max. 2.53 m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				14	12	16	16	8.50	0.97	0.40	0.17	0.22
2				11	21	13	14	7.00	0.97	0.35	0.15	0.22
3				8.50	30	11	12	5.25	0.97	0.35	0.15	0.17
4				6.80	32	12	13	4.65	0.97	0.35	0.20	0.10
5				5.85	29	11	12	4.20	0.97	0.35	0.30	0.07
6				6.60	18	11	13	3.90	0.90	0.35	0.50	0.07
7				6.60	25	9.25	12	3.60	0.82	0.35	0.25	0.05
8				7.00	61	8.25	11	3.30	0.82	0.35	0.22	0.05
9				5.25	21	7.20	11	3.00	0.82	0.35	0.17	0.07
10				4.50	15	6.60	9.75	2.85	0.75	0.30	0.17	0.07
11				4.05	13	6.00	7.60	2.55	0.75	0.30	0.15	0.10
12				3.75	12	9.00	42	2.25	0.75	0.30	0.15	0.10
13				3.45	10	6.20	17	2.25	0.75	0.25	0.15	0.10
14				3.15	8.75	9.25	11	2.10	0.75	0.25	0.15	0.10
15				2.85	9.00	14	9.00	1.95	0.70	0.25	0.22	0.07
16				2.85	11	8.50	7.80	1.80	0.70	0.25	0.20	0.12
17				2.85	9.25	7.00	7.00	1.80	0.70	0.25	0.17	0.12
18				2.55	10	6.00	6.00	1.80	0.65	0.22	0.15	0.10
19				2.40	15	41	5.55	1.65	0.65	0.22	0.15	0.12
20				3.90	29	43	4.95	1.65	0.60	0.22	0.15	0.15
21				2.70	18	31	4.65	1.50	0.55	0.22	0.12	0.07
22				2.40	15	23	4.35	1.42	0.55	0.22	0.12	0.05
23				4.95	12	20	4.35	1.35	0.55	0.20	0.12	0.07
24				9.00	13	17	4.35	0.77	0.66	0.20	0.45	0.07
25				5.25	17	15	4.95	1.27	0.50	0.20	0.25	0.05
26				4.80	16	13	3.90	1.12	0.50	0.20	0.22	0.07
27				5.55	13	15	3.45	1.12	0.45	0.20	0.22	0.07
28				13	12	17	3.45	1.12	0.45	0.20	0.20	0.05
29				7.20	52	31	6.00	1.05	0.45	0.17		0.05
30				7.60	46	21	10	1.05	0.40	0.17		0.00
31				5.55	26		7.40		0.40	0.17		0.05
Total				176	627	458	298	78	21	8.20	5.67	2.85
Mean				5.67	20	15	9.63	2.61	0.69	0.26	0.20	0.09
Max.				14	61	43	42	8.50	0.97	0.40	0.50	0.22
Min.				2.40	8.75	6.00	3.45	1.05	0.40	0.17	0.12	0.00
Runoff - MCM.				15.024	54.173	39.571	25.747	6.739	1.814	0.784	0.490	0.246

WATER YEAR 1965 : Max. 61 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
MUNE RIVER BASIN

Mune River at Ban Chorakhe Hin, Nakhon Ratchasima (M. 49)

Location: Lat. 14° -29' -51" N., Long 102° - 09' - 41" E., on the right bank, about 3 kilometers south-west of Ban Chorakhe Hin, and about 3 kilometers downstream from the damsite, Amphoe Khon Buri, Nakhon Ratchasima.

Drainage Area: 446 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: On the right bank at the office of station M.49.
- Elevation: + 5.187 m. (A.D.)

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 which is adequate to represent its mean daily value.

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, shifting adjustment is negligible in flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

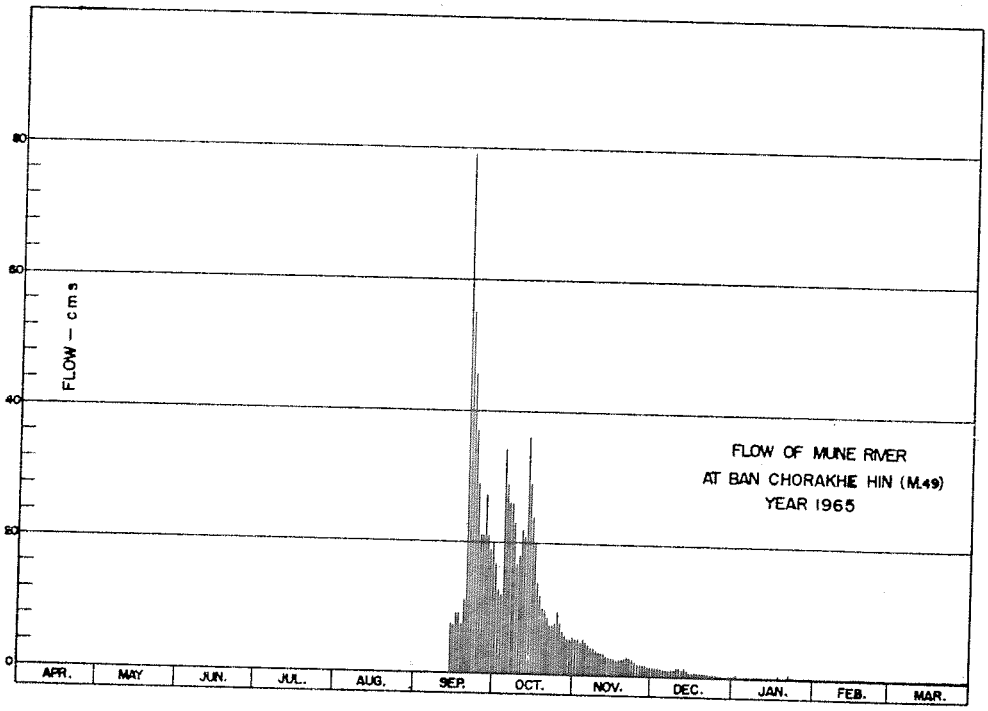
General Description: Records are classified as good. No State diversion are made above the gage site except those made by farmers by means of pumping and water wheels. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

Remark: Gage height began to record on Sep. 14,1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							4.05	3.27	2.01	1.19	0.98	0.87
2							3.89	.28	.00	.16	.96	.83
3							.83	.20	.00	.15	.96	.99
4							4.55	.29	1.95	.13	.94	.99
5							.44	.22	.92	.12	.95	.93
6							4.34	3.15	1.92	1.10	0.97	0.82
7							.34	.05	.89	.10	.96	.85
8							.26	2.98	.86	.09	.97	.87
9							.04	.92	.88	.09	.97	.76
10							.07	.86	.96	.07	.99	.75
11							4.21	2.83	1.96	1.06	1.00	0.73
12							.18	.83	.94	.05	0.99	.74
13							.60	.66	.96	.02	.97	.75
14						3.52	.42	.62	.76	0.99	.96	.75
15						.51	.27	.58	.60	1.27	.96	.75
16						3.66	4.14	2.53	1.60	1.16	0.97	0.76
17						.66	3.93	.49	.60	.20	.96	.78
18						.52	.82	.49	.56	.33	.97	.74
19						.78	.72	.52	.51	0.95	.98	.74
20						5.24	.65	.53	.45	.95	1.09	.72
21						4.93	3.60	2.63	1.43	0.99	1.00	0.72
22						.79	.55	.62	.37	1.46	0.88	.72
23						.62	.56	.51	.32	.06	.87	.73
24						.42	.67	.41	.30	0.95	.88	.71
25						.20	.69	.30	.28	.96	.87	.67
26						4.20	3.55	2.27	1.27	1.01	0.88	0.66
27						.36	.44	.21	.25	0.94	.90	.73
28						.19	.36	.17	.24	.88	.88	.70
29						.11	.26	.11	.21	1.03		.65
30						.15	.25	.09	.20	.08		.65
31							.32		.19	.01		.66
Mean							3.90	2.69	1.63	1.08	0.95	0.77
Max.							4.55	3.29	2.01	1.46	1.09	0.99
Min.							3.25	2.09	1.19	0.88	0.87	0.65

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1							17	5.43	1.30	0.32	0.18	0.11
2							13	5.49	1.28	0.30	0.17	0.09
3							12	5.04	1.28	0.29	0.17	0.18
4							34	5.54	1.20	0.28	0.15	0.18
5							29	5.15	1.15	0.27	0.16	0.15
6							26	4.78	1.15	0.26	0.17	0.09
7							26	4.31	1.10	0.26	0.17	0.10
8							23	4.02	1.06	0.25	0.17	0.11
9							17	3.78	1.09	0.25	0.17	0.07
10							18	3.56	1.22	0.24	0.18	0.06
11							22	3.45	1.22	0.23	0.19	0.06
12							21	3.45	1.18	0.22	0.18	0.06
13							36	2.90	1.22	0.20	0.17	0.06
14						7.32	29	2.78	0.90	0.18	0.17	0.06
15						7.21	24	2.66	0.70	0.39	0.17	0.06
16						9.07	20	2.51	0.70	0.30	0.17	0.07
17						9.07	14	2.39	0.70	0.33	0.17	0.07
18						7.32	12	2.39	0.66	0.44	0.17	0.06
19						11	10	2.48	0.60	0.16	0.18	0.06
20						79	8.92	2.51	0.54	0.16	0.25	0.06
21						55	8.20	2.81	0.53	0.18	0.19	0.06
22						46	7.65	2.78	0.47	0.55	0.12	0.06
23						37	7.76	2.45	0.43	0.23	0.11	0.06
24						29	9.21	2.19	0.41	0.16	0.12	0.05
25						21	9.50	1.90	0.39	0.17	0.11	0.04
26						21	7.65	1.83	0.39	0.20	0.12	0.04
27						27	6.56	1.70	0.37	0.15	0.13	0.06
28						21	5.96	1.62	0.36	0.12	0.12	0.05
29						19	5.38	1.50	0.34	0.21		0.03
30						20	5.32	1.46	0.33	0.25		0.03
31							5.72		0.32	0.20		0.04
Total							491	95	24	7.75	4.53	2.28
Mean							16	3.16	0.79	0.25	0.16	0.07
Max.							36	5.49	1.30	0.55	0.19	0.18
Min.							5.32	1.46	0.32	0.12	0.11	0.03
Runoff - mcm.							42.422	8.208	2.074	0.670	0.391	0.197

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
MUNE RIVER BASIN

Lam Sae at Khon Buri, Nakhon Ratchasima.(M. 50)

Location: Lat. 14° – 31' – 08" N., Long 102° – 14' – 39" E., on the right bank, about 500 meters south of the office of Amphoe Khon Buri, 30 meters south – east of Khon Buri Sanitarium, Nakhon Ratchasima.

Drainage Area: 875 sq. km. referred to AMS. Map.1:50,000.

Type of Gage: Water – stage recorder.

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

Bench Mark: B.M. 1.
Location: On the right bank at the foot of a big tree.
Elevation: + 10.00 m. (A.D.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1965 to date.

Rating Operation:
Period of Rating: Jun. 25, 1965 to date.
Rated by Float: –
Rated by Current Meter: 1965 to date.

Stability of Channel Regimes: Stable. Discharge measurements were made by moving crew, shifting adjustment not included for flow computation due to insufficient field data.

Overbank Flow Conditions: No overbank flow.

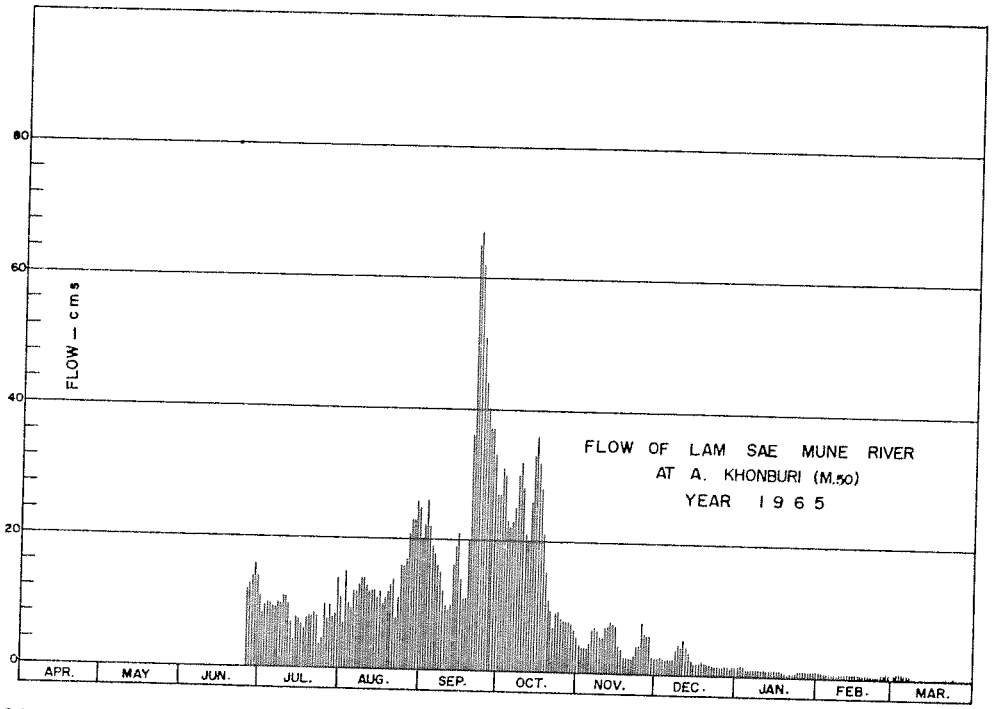
General Description: Stage records are classified as good, discharge records classified as fair. Water stage is affected by channel obstructions which are made by farmers. No state diversions are made above the gage site except those built by farmers.

Remark: Gage height began to record on Jun. 26, 1965.
* Estimated data.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				1.70	1.70	1.96	2.11	1.40	1.26	1.09	0.93	*0.92
2				.60	.53	2.03	.17	.38	.28	.15	.91	* .93
3				.64	.81	.09	.15	.38	.26	.08	.85	.95
4				.67	.68	.00	.02	.38	.21	0.97	.86	.93
5				.66	.63	1.93	1.99	.42	.25	.96	.88	.97
6				1.64	1.73	1.89	2.01	1.51	1.24	0.93	0.85	0.92
7				.64	.74	.85	.06	.53	.24	.96	.83	.90
8				.66	.76	.81	.15	.51	.38	.97	.78	.63
9				.66	.80	.73	.20	.45	.41	.98	.84	.48
10				.70	.78	.67	.12	.46	.39	.97	.86	.45
11				1.71	1.77	1.63	1.98	1.54	1.45	0.98	0.85	0.43
12				.67	.73	.68	.94	.55	.39	.94	.88	.47
13				.54	.74	.85	2.09	.58	.35	.93	.83	.42
14				.39	.72	.92	.22	.56	.21	.96	.81	.40
15				.58	.71	.97	.27	.54	.15	.94	.84	.37
16				1.57	1.72	1.80	2.20	1.40	1.18	0.95	0.86	0.42
17				.53	.67	.71	.12	.30	.16	.94	.83	.44
18				.49	.69	.71	1.97	.29	.20	.90	.83	.48
19				.58	.73	.95	.82	.27	.17	.85	.87	.51
20				.59	.76	2.26	.71	.26	.17	.79	.84	.62
21				1.59	1.79	2.68	1.63	1.24	1.13	0.84	0.80	0.57
22				.61	.58	.70	.57	.30	.11	.83	.79	.50
23				.59	.71	.64	.62	.39	.07	.85	.77	.50
24				.36	.84	.50	.63	.40	.05	.97	.76	.52
25				.42	.85	.40	.59	.58	.07	.97	.88	.52
26			1.74	1.66	1.88	2.34	1.58	1.49	1.06	0.97	0.92	0.49
27			.76	.58	.98	.29	.58	.48	.09	.96	.95	.47
28			.78	.68	2.01	.28	.57	.48	.08	.92	.89	.43
29			.84	.58	.02	.21	.55	.28	.00	.94		.39
30			.80	.60	.08	.11	.51	.26	.01	.94		.34
31				.79	.05		.45		.04	.94		.35
Mean				1.60	1.78	2.05	1.89	1.42	1.20	0.95	0.85	0.57
Max.				1.79	2.08	2.70	2.27	1.58	1.45	1.15	0.95	0.97
Min.				1.36	1.53	1.63	1.45	1.24	1.00	0.79	0.76	0.34

WATER YEAR 1965 : Max. 2.70 m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				11	11	20	27	4.30	* 2.46	1.46	0.52	0.78
2				8.40	6.86	24	31	3.98	* 2.58	1.80	0.74	0.82
3				9.48	15	26	30	3.98	* 2.46	1.42	0.55	0.90
4				10	10	22	23	3.98	* 2.16	0.98	0.58	0.82
5				10	9.21	19	22	4.68	* 2.40	0.94	0.64	0.98
6				9.48	12	18	23	6.42	* 2.34	0.82	0.55	0.78
7				9.48	12	16	25	6.86	* 2.34	0.94	0.49	0.70
8				10	13	15	30	6.42	3.98	0.98	0.36	0.13
9				10	14	12	32	5.25	4.49	1.02	0.52	0.04
10				11	14	10	28	5.44	4.14	0.98	0.58	0.02
11				11	13	9.21	21	7.08	5.25	1.02	0.55	0.01
12				10	12	10	20	7.30	4.14	0.86	0.64	0.03
13				7.08	12	16	26	7.96	3.50	0.82	0.49	0.01
14				4.14	12	19	33	7.52	2.16	0.94	0.43	0.00
15				7.96	11	21	36	7.08	1.80	0.86	0.52	0.00
16				7.74	12	14	32	4.30	1.98	0.90	0.58	0.01
17				6.86	10	11	28	2.70	1.86	0.86	0.49	0.02
18				6.01	11	11	21	2.64	2.10	0.70	0.49	0.04
19				7.96	12	20	15	2.52	1.92	0.55	0.61	0.05
20				8.18	13	36	11	2.46	1.92	0.38	0.52	0.12
21				8.18	14	65	9.21	2.34	1.68	0.52	0.40	0.08
22				8.67	7.96	67	7.74	2.70	1.56	0.49	0.38	0.05
23				8.18	11	62	8.94	4.14	1.38	0.55	0.34	0.05
24				3.66	16	51	9.21	4.30	1.30	0.98	0.32	0.06
25				4.68	16	44	8.18	7.96	1.38	0.98	0.64	0.06
26			12	10	17	40	7.96	6.01	1.34	0.98	0.78	0.04
27			13	7.96	21	37	7.96	5.82	1.46	0.94	0.90	0.03
28			14	10	23	37	7.74	5.82	1.42	0.78	0.67	0.01
29			16	7.96	23	33	7.30	2.58	1.10	0.86		0.00
30			14	8.40	26	27	6.42	2.46	1.14	0.86		0.00
31				14	25		5.25		1.26	0.86		0.00
Total				267	435	822	600	147	71	28	15	6.68
Mean				8.63	14.0	27	19	4.90	2.29	0.90	0.56	0.21
Max.				14	26	67	36	7.96	5.25	1.80	0.90	0.98
Min.				3.66	6.86	9.21	5.25	2.34	1.10	0.38	0.32	0.00
Runoff - MCM.				23.069	39.139	71.021	51.840	12.781	6.134	2.419	1.296	0.577

WATER YEAR 1965 : Max. 67 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept 21	09.00	2.71	68				

WATER YEAR 1965
MUNE RIVER BASIN

Huai Khayung at Ban Nam Om, Si Sa Ket. (M. 66)

Location: Lat. 14° - 38' - 23" N., Long 104° - 39' - 45" E., on the right bank 50 meters upstream from the bridge crossing Huai Khayung, Kantharalak-Det Udom road, Tambon Nam Om, Amphoe Kantharalak, Si Sa Ket.

Drainage Area: 586 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: B.M. 1
Location: On the post of water-stage recorder, built in 1966.
Elevation: + 6.581 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 which is adequate to represent its mean daily value.

Period of Available Gage Records: Aug. 18, 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: Very stable, shifting adjustment is negligible in flow computation due to its excellent stability.

Overbank Flow Conditions: No overbank flow.

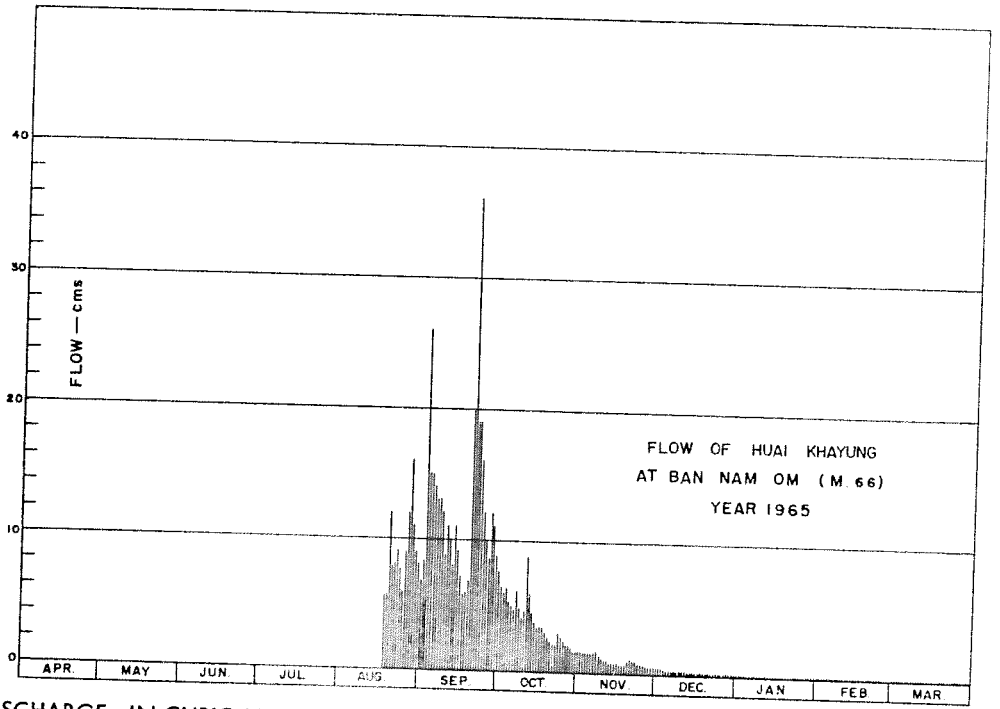
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on Aug. 18, 1965.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						1.00	1.06	0.46	0.25	0.11	0.06	0.02
2						.13	0.96	.46	.25	.11	.06	.02
3						2.25	.93	.44	.25	.12	.05	.03
4						1.58	.95	.45	.23	.12	.07	.02
5						.62	.87	.44	.22	.11	.09	.03
6						1.51	0.84	0.44	0.21	0.10	0.07	0.02
7						.47	.81	.45	.22	.09	.07	.02
8						.44	.94	.45	.21	.10	.06	.01
9						.37	.82	.41	.20	.10	.06	.01
10						.16	.75	.38	.20	.10	.06	.01
11						1.33	0.80	0.37	0.19	0.10	0.05	0.02
12						.27	1.16	.36	.19	.10	.05	.01
13						.10	0.93	.33	.17	.09	.05	.01
14						.32	.79	.33	.18	.10	.05	.01
15						.18	.72	.32	.18	.09	.04	.02
16						1.03	0.67	0.32	0.17	0.08	0.04	0.02
17						0.91	.68	.31	.17	.08	.04	.01
18					0.90	.93	.71	.29	.18	.08	.04	.01
19					.91	1.00	.64	.31	.17	.07	.04	.01
20					1.36	.88	.60	.36	.16	.07	.04	.02
21					1.09	2.78	0.57	0.39	0.15	0.06	0.03	0.07
22					.11	1.85	.53	.37	.15	.07	.04	.05
23					.19	.85	.52	.36	.14	.06	.04	.02
24					0.99	.63	.64	.32	.13	.06	.04	.02
25					.92	.39	.60	.31	.16	.06	.03	.01
26					1.17	1.24	0.57	0.30	0.13	0.06	0.03	0.01
27					.37	.14	.52	.28	.13	.06	.03	.02
28					.68	.42	.52	.27	.13	.06	.03	.09
29					.31	.33	.50	.26	.12	.06		.06
30					.18	.16	.46	.27	.12	.06		.04
31					.11		.45		.12	.05		.04
Mean						1.41	0.73	0.36	0.18	0.08	0.05	0.02
Max.						2.78	1.16	0.46	0.25	0.12	0.09	0.09
Min.						0.91	0.45	0.26	0.12	0.05	0.03	0.01

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						6.80	7.52	1.57	0.42	0.08	0.04	0.01
2						8.39	6.32	1.57	0.42	0.08	0.04	0.01
3						26	5.96	1.44	0.42	0.08	0.03	0.02
4						15	6.20	1.50	0.35	0.10	0.04	0.01
5						15	5.27	1.44	0.31	0.08	0.05	0.02
6						14	4.94	1.44	0.28	0.06	0.04	0.01
7						13	4.61	1.50	0.31	0.05	0.04	0.01
8						13	6.08	1.50	0.28	0.06	0.04	0.01
9						12	4.72	1.23	0.24	0.06	0.04	0.01
10						8.78	4.00	1.05	0.24	0.06	0.04	0.01
11						11	4.50	0.99	0.22	0.06	0.03	0.01
12						10	8.78	0.94	0.22	0.06	0.03	0.01
13						8.00	5.96	0.77	0.19	0.05	0.03	0.01
14						11	4.40	0.77	0.20	0.06	0.03	0.01
15						9.04	3.70	0.71	0.20	0.05	0.02	0.01
16						7.16	3.23	0.71	0.19	0.03	0.02	0.01
17						5.72	3.32	0.66	0.19	0.05	0.02	0.01
18					5.60	5.96	3.60	0.56	0.20	0.05	0.02	0.01
19					5.72	6.80	2.96	0.66	0.19	0.04	0.02	0.01
20					12	20	2.60	0.94	0.17	0.04	0.02	0.01
21					7.88	36	2.37	1.10	0.15	0.04	0.02	0.04
22					8.13	19	2.07	0.99	0.15	0.04	0.02	0.03
23					9.17	19	2.00	0.94	0.13	0.04	0.02	0.01
24					6.68	16	2.96	0.71	0.11	0.04	0.02	0.01
25					5.84	12	2.60	0.66	0.17	0.04	0.02	0.01
26					8.91	9.66	2.37	0.60	0.11	0.04	0.02	0.01
27					12	8.52	2.00	0.53	0.11	0.04	0.02	0.01
28					16	12	2.00	0.49	0.11	0.04	0.02	0.05
29					11	11	1.85	0.46	0.10	0.04		0.03
30					9.04	8.78	1.57	0.49	0.10	0.04		0.02
31					8.13		1.50		0.10	0.03		0.02
Total					126	379	122	29	6.57	1.63	0.82	0.46
Mean						13	3.93	0.96	0.21	0.05	0.03	0.01
Max.						36	8.78	1.57	0.42	0.10	0.05	0.05
Min.						5.72	1.50	0.46	0.10	0.03	0.02	0.01
Runoff - MCM.						32.746	10.541	2.506	0.568	0.141	0.071	0.040

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
MUNE RIVER BASIN

Huai Kwang at Ban Kaeng Yang, Ubol Ratchathani (M. 75)

Location: Lat. 15° - 09' - 53" N., Long 105° - 17' - 01" E., on the left bank, at the old concrete bridge crossing Huai Kwang, Amphoe Phibun Mangsahan - Chong Mek highway, near Wat Pa-Thepburom, Tambon Don Chik, Amphoe Phibun Mangsahan, Ubol Ratchathani.

Drainage Area: 388 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water-stage recorder.

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

Bench Mark:
- Location: At Wat Pa Thepburom, 9 meters from left bank.
- Elevation: + 6.775 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: Aug. 4, 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, shifting adjustment is not included in flow computation.

Overbank Flow Conditions: No overbank flow.

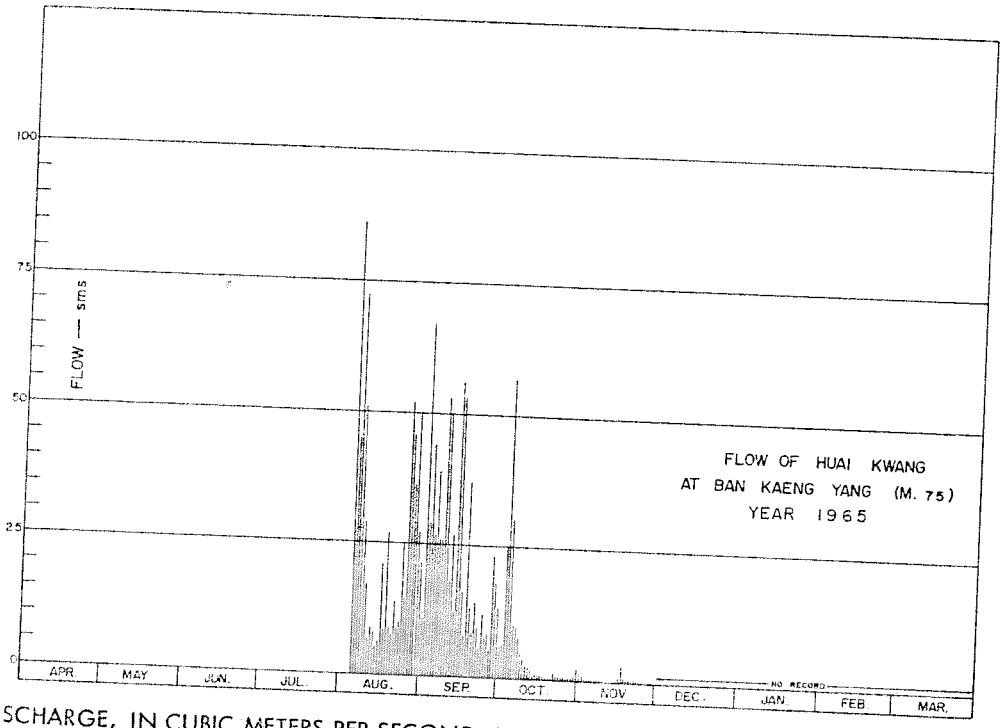
General Description: Records are classified as fair. No diversions are made above the gage site.

Remark: Gage height began to record on Aug. 4, 1965 and no gage height record for Dec. - Mar.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						1.44	1.16	0.87				
2						3.07	.17	.81				
3						2.03	.86	.79				
4					3.66	.46	2.81	.78				
5					.56	1.97	.04	.77				
6					2.49	2.33	1.36	0.77				
7					3.20	1.94	.33	.77				
8					2.60	.94	.26	.76				
9					.00	2.72	.11	.76				
10					1.61	.64	.03	.76				
11					1.20	1.66	0.94	0.74				
12					1.29	.95	.95	.74				
13					.27	.43	.92	.74				
14					.12	2.79	.87	.74				
15					.17	.72	.84	.77				
16					1.78	1.57	0.83	0.84				
17					.28	.24	.81	1.02				
18					.95	2.27	.80	.84				
19					.30	1.45	.79	.79				
20					.25	.28	.79	.79				
21					1.50	1.52	0.79	0.81				
22					.29	.31	.86	.82				
23					.33	.12	.81	.77				
24					.90	.43	.80	.77				
25					.55	.26	.80	.76				
26					2.67	1.28	0.79	0.76				
27					.51	.12	.79	.76				
28					.24	.84	.78	.75				
29					.64	.66	.78	.75				
30					1.96	.45	.83	.74				
31					.76		.93					
Mean					1.82	1.83	1.05	0.78				
Max.					3.66	3.07	2.81	1.02				
Min.					1.12	1.12	0.78	0.74				

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						12	5.90	1.27				
2						67	6.10	0.61				
3						29	24	0.40				
4					91	44	57	0.30				
5					86	27	30	0.20				
6					45	39	10	0.20				
7					72	26	9.52	0.20				
8					49	26	7.96	0.10				
9					28	53	4.90	0.10				
10					17	50	3.51	0.10				
11					6.70	18	2.16	0.00				
12					8.59	27	2.30	0.00				
13					8.17	12	1.88	0.00				
14					5.10	56	1.27	0.00				
15					6.10	53	0.94	0.20				
16					21	16	0.83	0.94				
17					8.38	7.54	0.61	3.34				
18					27	37	0.50	0.94				
19					8.80	13	0.40	0.40				
20					7.75	8.38	0.40	0.40				
21					14	14	0.40	0.61				
22					8.59	9.04	1.16	0.72				
23					10	5.10	0.61	0.20				
24					25	12	0.50	0.20				
25					15	7.96	0.50	0.10				
26					52	8.38	0.40	0.10				
27					46	5.10	0.40	0.10				
28					36	23	0.30	0.00				
29					50	18	0.30	0.00				
30					27	13	0.83	0.00				
31					21		2.02					
Total						736	178	12				
Mean						24	5.73	0.39				
Max.						67	57	3.34				
Min.						5.10	0.30	0.00				
Runoff - mm.						63.590	15.379	1.037				

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mm.

Momentary Peak Discharge

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

WATER YEAR 1965
MUNE RIVER BASIN

Lam Dom Noi at Ban Fang Lum, Ubol Ratchathani (M. 79)

Location: Lat. 15° – 07' – 19" N., Long 105° – 23' – 42" E., on the right bank, 20 meters upstream from concrete bridge crossing Lam Dom Noi, Phibun Mangsahan – Chong Mek highway, 300 meters south-east of Ban Fang Lum, Tambon Non Klang, Amphoe Phibun Mangsahan, Ubol Ratchathani.

Drainage Area: 1,973 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

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

Bench Mark: BM. – H.S.M. 79
Location: On the right bank, 10 meters from the gage site.
Elevation: + 12.246 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For those flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: May. 1,1965 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, periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

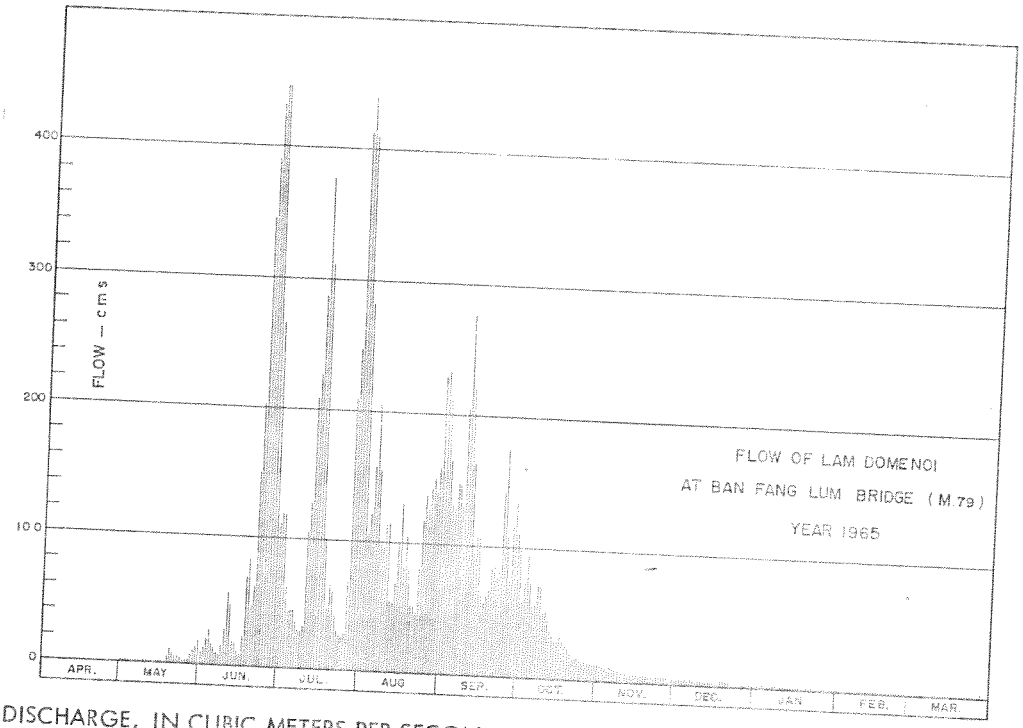
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on May, 1, 1965.
*Estimated data for Jul. 17 and Jul. 18.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.47	0.96	2.96	6.05	4.36	2.61	1.08	0.69	0.54	0.44	0.39
2		.44	1.13	.94	4.31	.08	.02	.04	.69	.53	.45	.38
3		.45	.22	.20	2.64	3.16	.10	.02	.68	.52	.45	.38
4		.47	.45	1.78	.90	.05	.60	.00	.68	.52	.45	.38
5		.43	.20	.76	3.34	.08	.31	0.99	.68	.52	.44	.38
6		0.41	1.09	1.84	4.04	3.32	1.97	1.00	0.68	0.53	0.44	0.38
7		.39	0.94	.61	3.10	.31	.98	0.98	.67	.53	.45	.37
8		.39	.88	.48	2.73	2.92	2.24	.96	.65	.50	.44	.37
9		.39	1.16	.44	.59	3.95	.24	.94	.64	.53	.43	.38
10		.38	.08	.52	.86	4.84	1.84	.92	.64	.52	.43	.37
11		0.38	1.99	2.53	2.90	4.00	1.91	0.88	0.64	0.51	0.44	0.37
12		.38	.74	3.08	.04	2.97	.82	.86	.64	.49	.43	.37
13		.38	.23	4.07	1.83	.55	.70	.85	.64	.52	.43	.35
14		.39	.22	.16	2.15	.77	.54	.84	.64	.51	.44	.32
15		.40	.00	4.91	.56	.76	.46	.83	.60	.49	.44	.37
16		0.40	0.92	5.79	3.10	2.15	1.44	0.83	0.60	0.49	0.42	0.37
17		.40	.94	*3.20	2.21	1.97	.53	.83	.59	.49	.42	.36
18		.42	1.97	*2.80	.76	2.07	.48	.82	.68	.50	.41	.36
19		.46	2.43	1.80	.40	.19	.40	.82	.72	.49	.41	.38
20		1.06	1.81	2.17	1.89	.14	.33	.82	.69	.48	.41	.42
21		0.85	1.92	1.99	1.93	2.46	1.27	0.80	0.62	0.46	0.42	0.39
22		.75	3.04	.59	.80	.34	.24	.79	.60	.47	.46	.38
23		.82	4.06	.48	2.26	.20	.20	.78	.59	.46	.45	.39
24		.74	5.52	.43	.81	.71	.20	.78	.59	.46	.44	.43
25		.62	.84	.38	3.20	3.67	.16	.77	.59	.44	.42	.43
26		0.63	6.25	1.53	2.98	2.56	1.14	0.75	0.59	0.46	0.42	0.42
27		.65	.36	2.14	3.24	.18	.12	.73	.57	.47	.43	.41
28		.90	5.70	4.11	.36	.84	.11	.73	.57	.45	.41	.60
29		1.03	3.81	.33	.22	3.13	.10	.71	.56	.44		.52
30		.08	2.78	6.01	.29	2.81	.08	.70	.55	.44		.45
31		.28		.30	4.30		.09		.54	.44		.41
Mean		0.59	2.42	2.81	2.93	2.95	1.62	0.86	0.63	0.49	0.43	0.40
Max.		1.28	6.36	6.30	6.05	4.84	2.61	1.08	0.72	0.54	0.46	0.60
Min.		0.38	0.88	1.38	1.80	1.97	1.08	0.70	0.54	0.44	0.41	0.32

WATER YEAR 1965 : Max. 6.36 m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.82	9.10	119	406	231	94	12	3.36	1.44	0.64	0.36
2		0.64	14	118	227	207	57	11	3.36	1.33	0.70	0.32
3		0.70	17	67	96	134	62	11	3.22	1.33	0.76	0.32
4		0.82	27	44	115	126	93	10	3.22	1.22	0.70	0.32
5		0.58	16	43	148	128	74	9.85	3.22	1.22	0.64	0.32
6		0.46	13	47	204	146	54	10	3.22	1.33	0.64	0.32
7		0.36	8.60	35	120	145	55	9.60	3.08	1.33	0.70	0.28
8		0.36	7.16	29	103	116	70	9.10	2.80	1.08	0.64	0.28
9		0.36	15	27	93	196	70	8.60	2.66	1.33	0.58	0.32
10		0.32	12	31	112	275	49	8.10	2.66	1.22	0.58	0.28
11		0.32	56	89	115	200	51	7.16	2.66	1.11	0.64	0.28
12		0.32	42	128	58	120	46	6.72	2.66	0.94	0.58	0.28
13		0.32	17	206	47	90	40	6.50	2.66	1.22	0.58	0.20
14		0.36	17	214	65	105	32	6.28	2.66	1.11	0.64	0.08
15		0.40	10	281	91	105	28	6.06	2.10	0.94	0.64	0.28
16		0.40	8.10	375	129	65	27	6.06	2.10	0.94	0.52	0.28
17		0.40	8.60	310	68	54	31	6.06	1.99	0.94	0.52	0.24
18		0.52	54	107	105	60	29	5.84	3.22	1.00	0.46	0.24
19		0.76	82	45	80	67	25	5.84	3.88	0.94	0.46	0.32
20		12	46	66	50	81	22	5.84	3.36	0.88	0.46	0.52
21		7.16	52	56	52	84	19	5.40	2.38	0.76	0.52	0.36
22		4.45	125	34	45	76	18	5.21	2.10	0.82	0.76	0.32
23		5.84	205	29	71	67	16	5.02	1.99	0.76	0.70	0.36
24		4.26	344	26	108	101	16	5.02	1.99	0.76	0.64	0.38
25		2.38	381	24	137	173	15	4.83	1.94	0.64	0.52	0.38
26		2.52	430	31	121	91	14	4.45	1.99	0.76	0.52	0.52
27		2.80	445	64	140	66	14	4.07	1.77	0.82	0.58	0.46
28		7.60	364	210	149	110	13	4.07	1.77	0.70	0.46	2.10
29		11	182	229	138	132	13	3.69	1.66	0.64		1.22
30		12	106	401	144	108	12	3.50	1.55	0.64		0.70
31		19		437	226		13		1.44	0.64		0.46
Total		100	3,113	3,922	3,763	3,659	1,172	207	79	31	17	15
Mean		3.23	104	126	121	122	38	6.89	2.54	0.99	0.60	0.43
Max.		19	445	437	406	275	94	12	3.88	1.44	0.76	2.10
Min.		0.32	7.16	24	47	54	12	3.50	1.44	0.64	0.46	0.08
Runoff — mcm.		8.640	268.803	339.861	325.125	316.138	101.261	17.885	6.825	2.678	1.469	1.123

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 27	05.00	6.54	468	Jul. 31	07.00	6.33	441

WATER YEAR 1965
MUNE RIVER BASIN

Lam Dom Yai at Det Udom, Ubol Ratchathani (M. 80)

Location: Lat. 14° - 53' - 53" N., Long 105° - 05' - 08" E., on the left bank, 20 meters downstream from concrete bridge crossing Lam Dom Yai, Amphoe Det Udom, Buntharik road, Tambon Muang Det, Amphoe Det Udom, Ubol Ratchathani.

Drainage Area: 3,363 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water stage recorder.

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

Bench Mark: BM. - M.S./R.I.D. M. 80
Location: On the left bank, 12 meters from the gage site.
Elevation: + 11.819 m. (A.D.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: Aug. 1, 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, shifting adjustment is negligible for flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

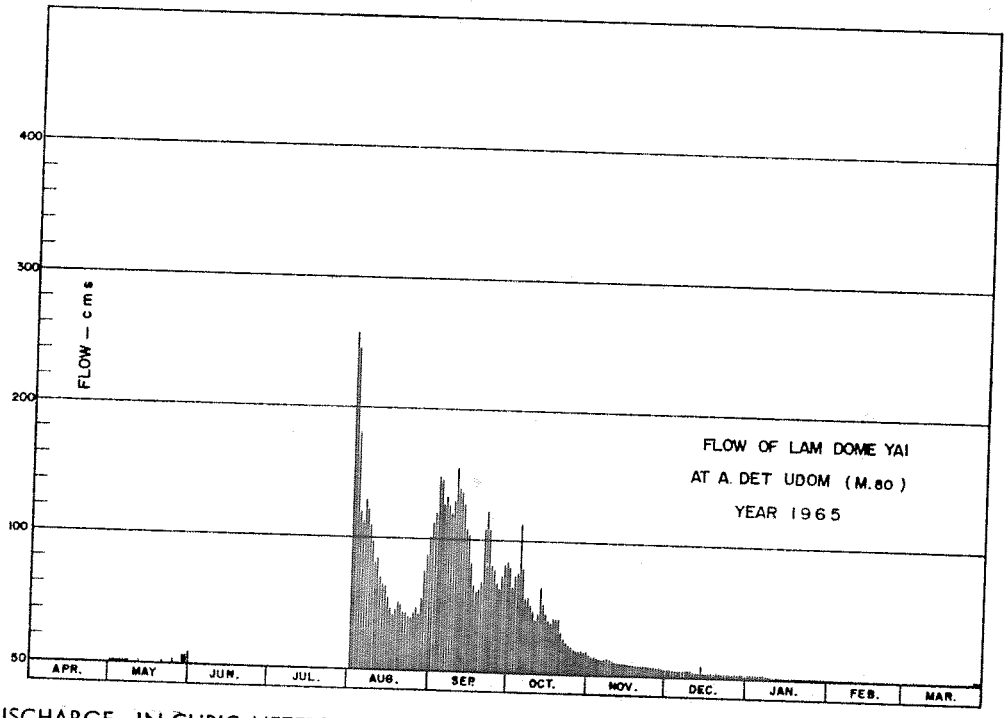
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on May 1, 1965, and no gage height record for Jun. 1 - Jul. 31.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1965

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		0.59			7.39	4.49	3.69	1.42	0.92	0.72	0.59	0.53
2		.57			.10	.69	.19	.38	.90	.72	.58	.55
3		.54			5.90	5.25	.47	.36	.90	.72	.59	.54
4		.53			4.62	.21	.49	.32	.89	.72	.59	.54
5		.52			.44	4.79	4.44	.29	.88	.72	.56	.54
6		0.52			4.84	4.92	3.25	1.27	0.86	0.72	0.58	0.52
7		.52			.67	.77	2.95	.30	.85	.72	.56	.53
8		.52			.33	.62	.96	.31	.84	.72	.56	.54
9					.07	.88	.82	.26	.85	.70	.55	.52
10					3.65	5.41	.58	.22	.83	.69	.58	.52
11					3.74	5.05	2.40	1.19	0.83	0.68	0.62	0.52
12		0.59			.32	.00	.57	.17	.83	.65	.61	.51
13					.18	4.76	3.19	.15	.82	.67	.58	.49
14					.15	.30	2.78	.12	.81	.66	.58	.51
15					2.83	.21	.58	.10	.81	.65	.56	.51
16					2.56	3.69	2.40	1.07	0.80	0.64	0.56	0.50
17					.47	.18	.35	.05	.78	.63	.56	.54
18					.60	.08	.48	.06	.81	.63	.55	.55
19					.81	.16	.44	.05	.83	.63	.55	.55
20					.72	.47	.44	.03	.80	.62	.54	.64
21		0.63			2.52	.21	2.04	1.03	0.80	0.62	0.54	0.60
22					.52	.67	1.92	.03	.81	.62	.54	.59
23					.45	.23	.80	.04	.79	.61	.54	.56
24					.40	3.65	.73	.05	.77	.59	.53	.52
25		0.72			.56	.57	.67	.03	.76	.60	.53	.52
26					2.65	3.25	1.57	1.00	0.75	0.60	0.53	0.52
27					.47	.15	.57	0.99	.74	.62	.52	.56
28					.90	.43	.55	.97	.74	.59	.52	.79
29		1.00			3.42	.66	.58	.96	.73	.59		.73
30		0.99			.82	.73	.54	.94	.73	.58	-	.73
31		1.07			4.20		.57		.73	.58	-	.67
Mean					3.62	4.22	2.49	1.14	0.81	0.65	0.56	0.56
Max.					7.39	5.41	4.44	1.42	0.92	0.72	0.62	0.79
Min.					2.40	3.08	1.54	0.94	0.73	0.58	0.52	0.49

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1965

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		1.17			257	115	83	14	5.30	2.30	1.17	0.72
2		1.02			239	123	65	13	5.00	2.30	1.10	0.87
3		0.80			177	148	75	13	5.00	2.30	1.17	0.80
4		0.72			120	146	76	12	4.85	2.30	1.17	0.80
5		0.65			113	127	113	11	4.70	2.30	0.95	0.80
6		0.65			129	133	71	11	4.40	2.30	1.10	0.65
7		0.65			122	126	57	11	4.25	2.30	0.95	0.72
8		0.65			108	120	57	12	4.10	2.30	0.95	0.80
9					98	131	53	11	4.25	2.00	0.87	0.65
10					81	155	45	10	3.95	1.92	1.10	0.65
11					85	139	40	9.35	3.95	1.85	1.40	0.65
12		1.17			70	136	45	9.05	3.95	1.62	1.32	0.57
13					65	126	65	8.75	3.80	1.77	1.10	0.40
14					64	107	51	8.30	8.65	1.70	1.10	0.57
15					53	103	45	8.00	3.65	1.62	0.95	0.57
16					45	83	40	7.55	3.50	1.55	0.95	0.50
17					42	65	38	7.25	3.20	1.47	0.95	0.80
18					46	61	42	7.40	3.65	1.47	0.87	0.87
19					52	64	41	7.25	3.95	1.47	0.87	0.87
20					50	75	41	6.95	3.50	1.40	0.80	1.55
21		1.47			44	103	29	6.95	3.50	1.40	0.80	1.25
22					44	122	26	6.95	3.65	1.40	0.80	1.17
23					41	104	23	7.10	3.35	1.32	0.80	0.95
24					40	81	21	7.25	3.05	1.17	0.72	0.65
25		2.30			45	78	20	6.95	2.90	1.25	0.72	0.65
26					47	67	17	6.50	2.77	1.25	0.72	0.65
27					42	64	17	6.35	2.60	1.40	0.65	0.95
28					55	73	17	6.05	2.60	1.17	0.65	3.35
29		6.50			73	82	17	5.90	2.45	1.17		2.45
30		6.35			88	84	16	5.60	2.45	1.10	–	2.45
31		9.55			103		17		2.45	1.10	–	1.77
Total					2,638	3,141	1,363	263	114	52	27	31
Mean					85	105	44	8.78	3.69	1.68	0.95	1.00
Max.					257	155	113	14	5.30	2.30	1.40	3.35
Min.					40	61	16	5.60	2.45	1.10	0.65	0.40
Runoff - mcm.					227.923	271.382	117.763	22.723	9.850	4.493	2.333	2.678

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
CHEE RIVER BASIN

Chee River at Wat Thai Kosum, Maha Sarakham (E. 1)

Location: Lat. 16° – 15' 02" N., Long 103° – 04' – 25" E., on the right bank, 800 meters north – east of the office Amphoe Kosum Phisai, Maha Sarakham.

Drainage Area: 29,803 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 136.64 m. (M.S.L.)

Bench Mark: B.M. E. 1
- Location: On the right bank, 5 meters from the gage site.
- Elevation: + 149.116 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1936 – 43, 1951 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

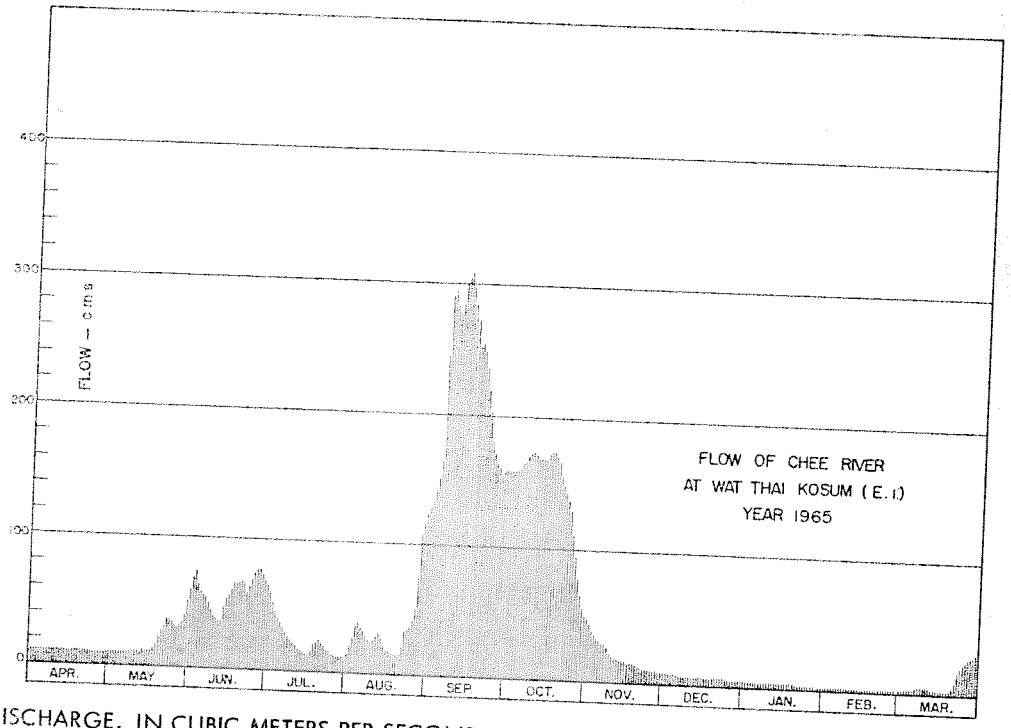
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made from main river above the gage site except for series of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	137.14	137.13	138.49	138.58	137.26	139.74	140.19	138.22	137.06	136.85	136.73	136.68
2	.14	.13	.69	.49	.49	.80	.19	.12	.06	.85	.74	.68
3	.13	.14	.79	.31	.69	.94	.19	137.99	.04	.84	.74	.69
4	.13	.14	.59	.16	.89	140.09	.20	.91	.03	.84	.74	.73
5	.13	.15	.46	.06	138.01	.29	.23	.83	.02	.84	.74	.75
6	137.13	137.15	138.40	137.96	137.91	141.41	140.28	137.78	137.00	136.83	136.74	136.76
7	.13	.15	.37	.86	.81	.99	.31	.75	136.99	.83	.74	.79
8	.13	.16	.26	.76	.71	142.04	.37	.73	.98	.83	.73	.82
9	.13	.16	.16	.66	.64	141.91	.41	.69	.98	.82	.73	.83
10	.13	.17	.06	.58	.60	.84	.42	.54	.97	.82	.73	.82
11	137.13	137.17	138.01	137.52	137.66	141.92	140.39	137.47	136.96	136.82	136.73	136.79
12	.14	.18	137.95	.46	.75	142.11	.34	.42	.95	.81	.72	.75
13	.14	.18	.96	.36	.79	.16	.34	.40	.94	.81	.72	.74
14	.14	.18	138.19	.33	.69	.21	.34	.39	.94	.80	.72	.72
15	.14	.19	.35	.28	.49	.07	.34	.38	.94	.80	.72	.70
16	137.14	137.20	138.41	137.24	137.41	141.91	140.41	137.35	136.93	136.79	136.72	136.68
17	.14	.21	.51	.23	.38	.77	.43	.31	.93	.79	.71	.68
18	.14	.26	.58	.31	.34	.51	.43	.29	.93	.79	.71	.69
19	.14	.41	.61	.49	.31	.54	.38	.28	.92	.79	.71	.71
20	.14	.59	.61	.54	.30	.47	.31	.26	.92	.78	.70	.74
21	137.14	137.71	138.64	137.58	137.32	141.29	140.14	137.21	136.92	136.78	136.70	136.89
22	.13	.81	.61	.52	.49	.07	.04	.17	.92	.78	.70	137.09
23	.13	.96	.46	.46	.84	140.84	139.97	.14	.92	.77	.69	.36
24	.12	.95	.56	.36	.89	.52	.87	.14	.91	.77	.69	.47
25	.11	.90	.66	.32	.94	.39	.74	.13	.90	.77	.69	.56
26	137.10	137.84	138.76	137.25	138.09	140.28	139.44	137.12	136.89	136.76	136.69	137.61
27	.10	.79	.83	.24	.29	.24	.14	.11	.88	.76	.69	.68
28	.11	.82	.83	.20	.79	.16	138.84	.10	.87	.75	.68	.71
29	.12	.91	.76	.19	139.39	.19	.59	.09	.87	.75		.74
30	.12	138.06	.66	.19	.54	.19	.39	.08	.87	.74		.79
31		.29		.19	.64		.27		.86	.74		.83
Mean	137.13	137.45	138.47	137.57	137.89	141.10	139.96	137.45	136.94	136.80	136.72	137.01
Max.	137.14	138.29	138.83	138.58	139.64	142.21	140.43	138.22	137.06	136.85	136.74	137.83
Min.	137.10	137.13	137.95	137.19	137.26	139.74	138.27	137.08	136.86	136.74	136.68	136.68

WATER YEAR 1965 : Max. 142.21 m. Min. 136.68 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	11	11	60	65	14	129	158	48	9.26	5.15	3.18	2.46
2	11	11	78	60	21	133	158	44	9.26	5.15	3.34	2.46
3	11	11	75	52	27	142	158	38	8.84	4.98	3.34	2.58
4	11	11	65	45	35	151	158	35	8.63	4.98	3.34	3.18
5	11	11	59	40	39	164	160	32	8.42	4.98	3.34	3.50
6	11	11	56	37	35	244	164	31	8.00	4.81	3.34	3.66
7	11	11	55	33	32	280	166	29	7.80	4.81	3.34	4.14
8	11	11	50	30	28	294	170	29	7.60	4.81	3.18	4.64
9	11	11	45	26	26	283	172	27	7.60	4.64	3.18	4.81
10	11	12	40	24	24	278	173	22	7.40	4.64	3.18	4.64
11	11	12	39	22	26	284	171	20	7.20	4.64	3.18	4.14
12	11	12	37	20	29	300	168	19	7.00	4.47	3.02	3.66
13	11	12	37	17	31	304	168	18	6.80	4.47	3.02	3.34
14	11	12	47	16	27	308	168	18	6.80	4.30	3.02	3.02
15	11	12	54	15	21	296	168	17	6.80	4.30	3.02	2.70
16	11	12	56	13	18	283	172	17	6.60	4.14	3.02	2.46
17	11	13	61	13	17	272	174	15	6.60	4.14	2.86	2.46
18	11	14	65	15	16	252	174	15	6.60	4.14	2.86	2.58
19	11	18	66	21	15	254	170	15	6.40	4.14	2.86	2.86
20	11	24	66	22	15	249	166	14	6.40	3.98	2.70	3.34
21	11	28	68	24	16	235	155	13	6.40	3.98	2.70	5.83
22	11	32	66	22	21	219	148	12	6.40	3.98	2.70	9.89
23	11	37	59	20	33	202	143	11	6.40	3.82	2.58	17
24	10	37	64	17	35	180	137	11	6.20	3.82	2.58	20
25	10	35	69	16	36	171	129	11	6.00	3.82	2.58	23
26	10	33	74	14	42	164	111	10	5.83	3.66	2.58	25
27	10	31	77	13	51	161	94	10	5.66	3.66	2.58	27
28	10	32	77	12	75	156	78	10	5.49	3.50	2.46	28
29	10	35	74	12	108	158	65	9.89	5.49	3.50		29
30	10	40	69	12	117	158	56	9.68	5.49	3.34		31
31		51		12	123		50		5.32	3.34		32
Total	323	643	1,800	760	1,153	6,714	4,502	595	215	132	83	121
Mean	11	21	60	24	37	224	145	20	7.11	4.26	2.66	3.90
Max.	11	51	77	65	123	308	174	48	9.26	5.15	3.34	32
Min.	10	11	37	12	14	129	50	9.68	5.32	3.34	2.46	2.46
Runoff — MCM.	27.907	55.555	155.520	65.664	99.619	580.090	388.973	51.408	18.576	11.405	7.171	10.454

WATER YEAR 1965 : Max. 308 Min. 2.46 Mean 47 Annual Runoff 1,472.342 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 14	18.00	142.21	308				

WATER YEAR 1965
CHEE RIVER BASIN

Chee River at Wat Si Thamaram, Ubol Ratchathani (E. 2)

Location: Lat. 16° – 15'– 02" N., Long 103° – 04' – 25" E., on the left bank about 1.5 kilometers south of the office of Amphoe Yasothon and is about 500 meters downstream from Wat Si Thamaram, Ubol Ratchathani.

Drainage Area: 47,406 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 117.00 m. (M.S.L.)

Bench Mark: B.M. of mapping Department, Thai Army No. 97.
Location: About 15 meters east of the post office.
Elevation: + 126.972 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

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.

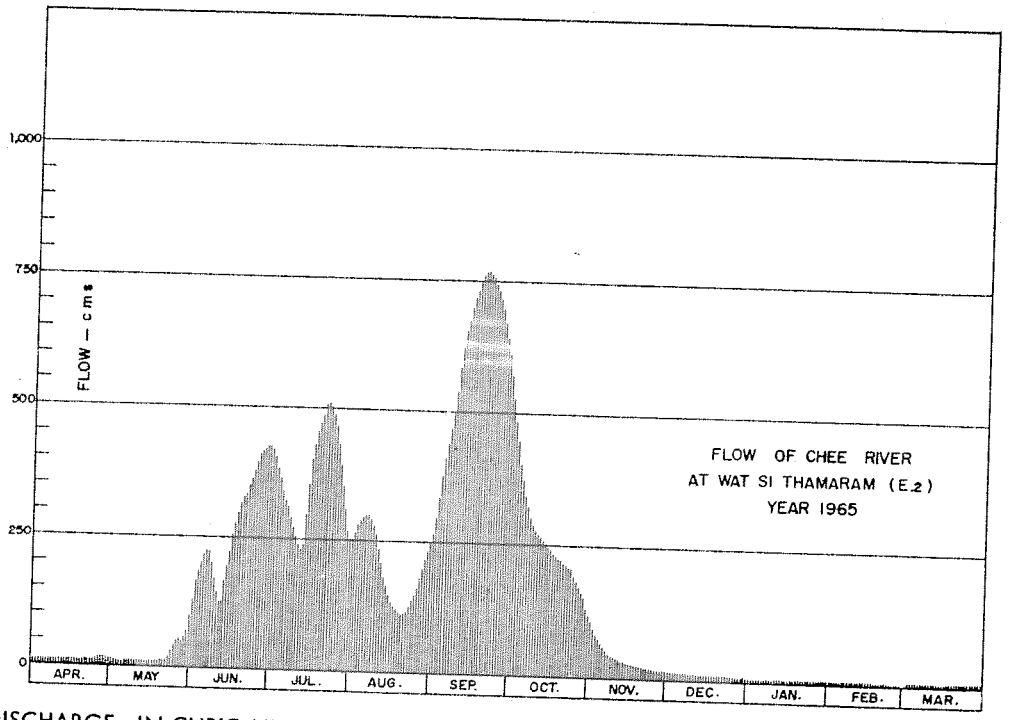
Overbank Flow Conditions: No overbank flow.

General Description: Stage record is classified as good and discharge record is classified as fair. Stage-discharge relationship is defined by discharge measurements made in 1951. No diversion is made from main river except for series of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	118.54	118.66	120.64	123.40	121.96	122.06	124.18	120.32	118.74	118.49	118.36	118.29
2	.54	.59	121.04	.28	122.08	.34	123.87	.16	.73	.48	.36	.33
3	.54	.56	.25	.12	.22	.70	.61	.02	.73	.48	.36	.38
4	.54	.53	.43	122.94	.28	123.05	.27	119.88	.72	.47	.36	.41
5	.53	.52	.57	.76	.35	.32	.02	.76	.71	.46	.35	.41
6	118.53	118.56	121.66	122.60	122.38	123.54	122.77	119.66	118.70	118.46	118.35	118.40
7	.53	.56	.64	.48	.38	.76	.57	.57	.70	.45	.34	.36
8	.53	.61	.44	.30	.33	.98	.38	.48	.69	.44	.34	.33
9	.53	.60	.11	.13	.20	124.24	.27	.41	.68	.44	.34	.33
10	.53	.61	120.80	121.98	.03	.54	.18	.36	.66	.43	.34	.32
11	118.55	118.62	120.57	121.83	121.76	124.76	122.11	119.30	118.65	118.43	118.33	118.32
12	.56	.60	.62	.81	.20	.92	.06	.26	.64	.42	.33	.31
13	.56	.59	121.05	.81	.20	125.04	121.99	.22	.63	.42	.32	.31
14	.56	.55	.40	122.37	.02	.14	.93	.19	.63	.42	.32	.30
15	.55	.54	.65	.86	120.83	.24	.88	.15	.62	.41	.32	.30
16	118.56	118.55	121.98	123.24	120.67	125.30	121.82	119.10	118.61	118.41	118.32	118.30
17	.56	.59	122.18	.49	.58	.37	.75	.07	.60	.41	.31	.31
18	.57	.61	.38	.67	.51	.42	.70	.04	.59	.40	.31	.33
19	.57	.60	.54	.80	.44	.44	.66	.01	.58	.40	.30	.34
20	.57	.65	.65	.91	.40	.44	.62	118.97	.57	.39	.30	.34
21	118.63	118.67	122.70	124.04	120.41	125.43	121.58	118.96	118.56	118.39	118.30	118.34
22	.59	.67	.83	.06	.46	.40	.54	.93	.55	.39	.30	.33
23	.57	.85	.93	.01	.58	.36	.50	.91	.55	.39	.29	.33
24	.61	119.15	123.07	123.91	.73	.31	.48	.88	.55	.38	.29	.33
25	.68	.38	.20	.75	.84	.24	.33	.86	.54	.38	.29	.34
26	118.77	119.56	123.32	123.50	121.00	125.15	121.20	118.84	118.53	118.38	118.28	118.35
27	.79	.60	.37	.19	.20	.03	.09	.81	.53	.38	.28	.35
28	.76	.55	.41	122.83	.39	124.87	120.97	.80	.52	.37	.28	.36
29	.74	.62	.44	.45	.56	.69	.88	.78	.52	.37		.37
30	.70	.82	.45	.10	.74	.47	.66	.76	.57	.37		.38
31		120.23		121.94	.90		.49		.50	.37		.40
Mean	118.59	118.86	112.04	122.95	121.38	124.55	121.98	119.25	118.63	118.41	118.32	118.34
Max.	118.79	120.23	123.45	124.06	122.38	125.44	124.18	120.32	118.74	118.49	118.36	118.41
Min.	118.53	118.52	120.57	121.81	120.40	122.06	120.49	118.76	118.50	118.37	118.28	118.29

WATER YEAR 1965 : Max. 125.44 m. Min. 118.28 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10	14	131	421	255	265	529	106	16	9.16	6.20	4.80
2	10	12	167	405	267	295	484	93	16	8.90	6.20	5.60
3	10	11	186	385	282	335	448	83	16	8.90	6.20	6.60
4	10	10	202	364	289	377	404	74	16	8.64	6.20	7.20
5	10	9.94	216	342	297	411	373	66	15	8.38	6.00	7.20
6	10	11	225	324	300	439	343	59	15	8.38	6.00	7.00
7	10	11	223	311	300	468	321	53	15	8.12	5.80	6.20
8	10	12	203	291	294	499	300	48	15	7.86	5.80	5.60
9	10	12	173	272	280	538	288	43	14	7.86	5.80	5.60
10	10	12	145	257	262	585	278	41	14	7.60	5.80	5.40
11	11	13	126	242	235	622	270	38	14	7.60	5.60	5.40
12	11	12	130	230	209	651	265	36	13	7.40	5.60	5.20
13	11	12	168	240	181	674	258	34	13	7.40	5.40	5.20
14	11	11	199	299	165	695	252	33	13	7.40	5.40	5.00
15	11	10	224	354	148	717	247	31	13	7.20	5.40	5.00
16	11	11	257	400	134	730	241	29	12	7.20	5.40	5.00
17	11	12	278	433	126	748	234	28	12	7.20	5.20	5.20
18	11	12	300	456	121	762	229	27	12	7.00	5.20	5.60
19	11	12	317	474	115	767	225	26	12	7.00	5.00	5.80
20	11	14	330	489	112	767	221	24	11	6.80	5.00	5.80
21	13	14	335	508	113	764	217	24	11	6.80	5.00	5.80
22	12	14	351	511	117	756	213	23	11	6.80	5.00	5.60
23	11	20	363	504	126	746	209	22	11	6.80	4.80	5.60
24	12	31	379	489	139	733	207	21	11	6.60	4.80	5.60
25	14	42	395	467	149	717	193	20	10	6.60	4.80	5.80
26	17	53	411	434	163	697	181	19	10	6.60	4.60	6.00
27	18	55	417	394	181	672	171	18	10	6.60	4.60	6.00
28	17	52	422	351	198	642	160	18	9.94	6.40	4.60	6.20
29	16	56	426	308	215	610	152	18	9.94	6.40		6.40
30	15	69	428	269	233	573	133	17	11	6.40		6.60
31		98		253	249		119		9.42	6.40		7.00
Total	355	738	8,127	11,477	6,255	18,615	8,165	1,172	391	228	151	181
Mean	12	24	271	370	204	620	263	39	13	7.37	5.41	5.84
Max.	18	98	428	511	300	767	529	106	16	9.16	6.20	7.20
Min.	10	9.94	126	230	112	265	119	17	9.42	6.40	4.60	4.80
Runoff — MCM.	30.672	63.763	702.173	991.613	540.432	1,608.336	705.215	101.261	33.782	19.699	13.046	15.638

WATER YEAR 1965 : Max. 767 Min. 4.60 Mean 153 Annual Runoff 4,825.872 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 21	06.00	125.44	767	Jul. 21	18.00	124.06	511

WATER YEAR 1965
CHEE RIVER BASIN

Chee River at Tha Khon Yang, Maha Sarakham.(E. 8A)

Location: Lat. 16° – 13' – 51" N., Long 103° – 16' 29" E., on the right bank at Maha Sarakham – Kalasin highway bridge, Tambon Tha Khon Yang, Amphoe Kantharawichai, Maha Sarakham.

Drainage Area: 29,817 sq. km. referred to AMS. Map.1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 133.21 m. (M.S.L.)

Bench Mark: B.M. – H.S. No. 6.
Location: On the right abutment of the bridge.
Elevation: + 147.910 m. (M.S.L.)

Gage Reading Frequency: 3 – time daily readings at 06.00, 12.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1955 to date.

Rating Operation:
Period of Rating: 1955 – 57, 1964 to date.
Rated by Float: –
Rated by Current Meter: 1955 – 57, 1964 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

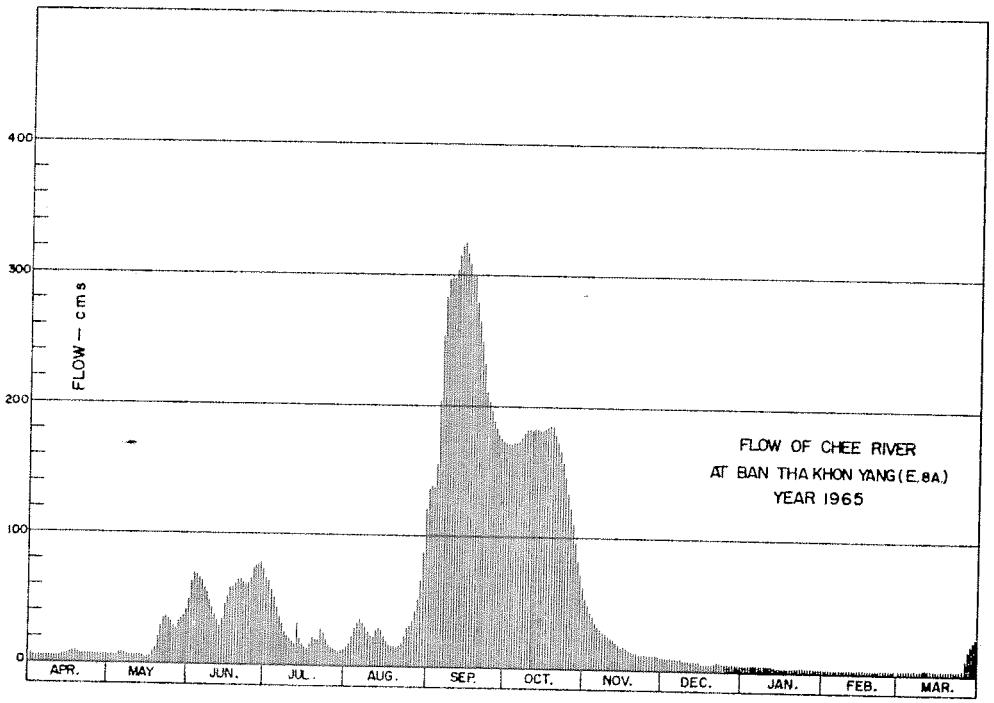
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made from main rivers except for series of tank irrigation.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.03	134.03	134.94	135.34	134.22	136.69	137.36	135.07	134.12	133.95	133.86	133.82
2	.00	.03	135.26	.28	.28	.75	.35	134.93	.12	.95	.86	.83
3	133.99	.04	.39	.16	.36	.73	.35	.80	.11	.95	.86	.83
4	134.00	.05	.40	.02	.48	137.05	.36	.73	.11	.95	.86	.83
5	.00	.09	.36	134.85	.56	.91	.37	.63	.10	.95	.86	.82
6	133.99	134.09	135.28	134.66	134.61	138.73	137.39	134.54	134.09	133.94	133.85	133.82
7	.99	.08	.17	.51	.58	139.23	.44	.50	.08	.94	.85	.81
8	.98	.06	.08	.41	.50	.43	.48	.47	.07	.94	.85	.81
9	.98	.05	134.97	.36	.43	.46	.54	.45	.05	.94	.85	.84
10	.98	.05	.80	.33	.38	.46	.55	.42	.05	.94	.85	.92
11	133.99	134.04	134.70	134.29	134.37	139.54	137.55	134.38	134.04	133.93	133.84	133.91
12	134.00	.03	.60	.26	.44	.73	.54	.36	.03	.92	.84	.90
13	.02	.04	.49	.55	.48	.84	.53	.33	.03	.91	.84	.88
14	.04	.01	.61	.32	.46	.87	.52	.30	.02	.90	.83	.86
15	.06	.00	.88	.26	.38	.77	.52	.28	.01	.89	.83	.85
16	134.08	134.00	135.04	134.22	134.31	139.63	137.54	134.27	134.00	133.89	133.83	133.84
17	.08	.03	.17	.20	.26	.48	.57	.25	133.98	.89	.83	.84
18	.07	.13	.20	.26	.23	.35	.60	.23	.98	.89	.83	.83
19	.07	.18	.24	.34	.23	.16	.57	.21	.97	.89	.82	.83
20	.06	.34	.30	.32	.22	138.93	.50	.20	.97	.90	.82	.83
21	134.06	134.49	135.31	134.33	134.23	138.68	137.39	134.19	133.99	133.90	133.82	133.84
22	.06	.63	.26	.46	.28	.40	.26	.18	134.01	.90	.82	.84
23	.06	.67	.23	.42	.38	.11	.09	.17	.01	.90	.82	.83
24	.05	.63	.26	.31	.48	137.90	136.90	.16	.00	.90	.82	.83
25	.05	.56	.35	.24	.53	.79	.70	.16	133.99	.89	.82	.84
26	134.05	134.48	135.53	134.21	134.62	137.64	136.47	134.16	133.98	133.89	133.82	134.16
27	.04	.44	.63	.19	.79	.56	.22	.16	.97	.89	.82	.29
28	.04	.54	.65	.17	135.01	.48	135.94	.15	.97	.88	.82	.37
29	.04	.62	.58	.16	.33	.42	.68	.14	.96	.88		.42
30	.04	.68	.49	.17	.76	.39	.45	.12	.96	.81		.45
31		.76		.18	136.44		.24		.95	.86		.49
Mean	134.03	134.35	135.20	134.44	134.57	138.50	137.10	134.36	134.02	133.91	133.84	133.94
Max.	134.08	134.76	135.65	135.34	136.44	139.87	137.60	135.07	134.12	133.95	133.86	134.49
Min.	133.98	134.00	134.49	134.16	134.22	136.69	135.24	134.12	133.95	133.81	133.82	133.81

WATER YEAR 1965 : Max. 139.87 m. Min. 133.81 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	6.76	6.76	49	67	14	135	172	54	9.86	4.65	2.86	2.22
2	5.80	6.76	63	64	17	138	171	48	9.86	4.65	2.86	2.38
3	5.57	7.08	69	58	22	137	171	43	9.43	4.65	2.86	2.38
4	5.80	7.40	69	52	29	155	172	40	9.43	4.65	2.86	2.38
5	5.80	8.68	67	45	33	204	172	35	9.00	4.65	2.86	2.22
6	5.57	8.68	64	37	35	253	173	32	8.68	4.42	2.70	2.22
7	5.57	8.36	59	31	33	283	176	30	8.36	4.42	2.70	2.06
8	5.34	7.72	55	25	30	296	175	28	8.04	4.42	2.70	2.06
9	5.34	7.40	50	22	26	298	182	27	7.40	4.42	2.70	2.54
10	5.34	7.40	43	20	23	298	182	25	7.40	4.42	2.70	3.96
11	5.57	7.08	38	18	22	303	182	23	7.40	4.19	2.54	3.73
12	5.80	6.76	34	16	27	315	182	22	6.76	3.96	2.54	3.50
13	0.44	7.08	30	32	29	322	181	20	6.76	3.73	2.54	3.18
14	7.08	6.12	35	20	28	324	181	18	6.44	3.50	2.38	2.86
15	7.72	5.80	46	16	23	317	181	17	6.12	3.34	2.38	2.70
16	8.36	5.80	53	14	19	308	182	17	5.80	3.34	2.38	2.54
17	8.36	6.76	59	13	16	299	184	16	5.34	3.34	2.38	2.54
18	8.04	10	60	16	15	291	185	15	5.34	3.34	2.38	2.38
19	8.04	12	62	21	15	279	184	14	5.11	3.34	2.22	2.38
20	7.72	21	65	20	14	265	179	13	5.11	3.50	2.22	2.38
21	7.72	30	65	20	15	250	173	13	5.57	3.50	2.22	2.54
22	7.72	35	63	28	17	233	166	12	6.12	3.50	2.22	2.54
23	7.72	37	62	25	23	211	157	12	6.12	3.50	2.22	2.38
24	7.40	35	63	19	29	203	146	11	5.80	3.50	2.22	2.38
25	7.40	33	67	15	31	197	135	11	5.57	3.34	2.22	2.54
26	7.40	29	75	14	35	188	123	11	5.34	3.34	2.22	11
27	7.08	27	80	13	42	183	110	11	5.11	3.34	2.22	18
28	7.08	32	81	12	52	178	96	11	5.11	3.18	2.22	22
29	7.08	35	78	11	66	175	83	11	4.88	3.18		22
30	7.08	37	73	12	87	173	72	9.86	4.38	3.02		27
31		41		12	121		62		4.65	2.86		30
Total	204	536	1,777	788	988	7,211	4,893	650	207	117	69	198
Mean	6.80	17	59	25	32	24	158	22	6.68	3.77	2.46	6.39
Max.	8.36	41	81	67	121	324	185	54	9.86	4.65	2.86	30
Min.	5.34	5.80	30	11	14	135	62	9.86	4.38	2.86	2.22	2.06
Runoff - mcm.	17.626	46.310	153.533	68.083	85.363	623.030	422.755	56.160	17.885	10.109	5.962	17.107

WATER YEAR 1965 : Max. 324 Min. 2.06 Mean 48 Annual Runoff 1,523.923 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 14	06.00	139.88	324				

WATER YEAR 1965
CHEE RIVER BASIN

Chee River at Ban Tha Phra, Khon Kaen. (E. 16A)

Location: Lat. 16° - 21' - 14" N., Long 102° - 48' - 09" E., on the left bank, 15 meters downstream from the old bridge and 400 meters upstream from the new bridge, Tambon Don Han Amphoe Muang, Khon Kaen.

Drainage Area: 13,171 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: + 142.936 m. (M.S.L.)

Bench Mark:
Location:
Elevation:

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1954 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

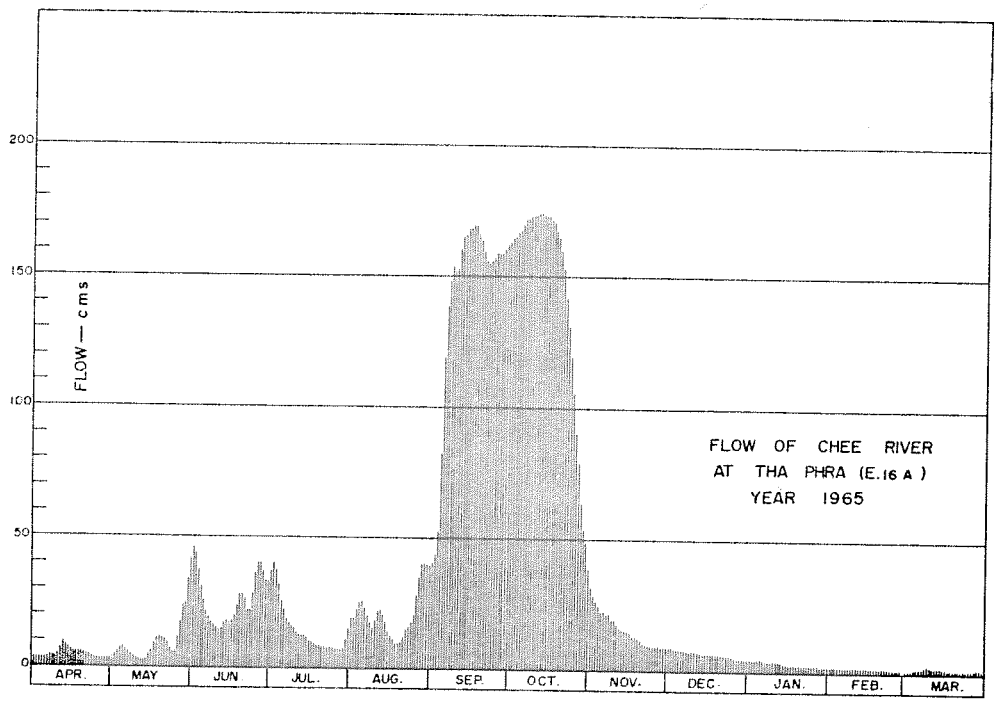
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made from the main river above the gage site, except for series of tank irrigation.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	143.32	143.34	145.11	144.84	144.13	144.95	147.67	144.68	143.61	143.36	143.12	142.98
2	.31	.42	.06	.92	.13	145.09	.68	.55	.61	.36	.12	.98
3	.31	.52	144.85	.86	.28	.33	.71	.46	.61	.36	.12	143.00
4	.31	.55	.63	.68	.42	146.05	.73	.39	.60	.35	.13	.00
5	.30	.55	.43	.47	.46	.82	.76	.32	.60	.34	.13	.00
6	143.29	143.49	144.26	144.29	144.35	147.23	147.79	144.28	143.59	143.33	143.13	143.00
7	.36	.43	.14	.15	.18	.39	.80	.26	.58	.32	.12	.01
8	.35	.39	.06	.07	.04	.48	.81	.23	.58	.31	.12	.24
9	.34	.32	143.99	.01	143.96	.46	.81	.17	.58	.30	.11	.17
10	.40	.27	.93	143.94	144.12	.48	.81	.13	.58	.29	.11	.15
11	143.56	143.24	143.89	143.86	144.29	147.59	147.82	144.06	143.57	143.28	143.10	143.12
12	.72	.22	.94	.80	.30	.67	.82	.00	.56	.27	.10	.09
13	.62	.21	144.07	.78	.18	.70	.81	143.96	.55	.26	.08	.06
14	.57	.24	.09	.78	.02	.72	.81	.93	.55	.24	.07	.02
15	.48	.45	.07	.76	143.90	.73	.81	.91	.55	.23	.06	.02
16	143.43	143.56	144.09	143.72	143.81	147.74	147.80	143.89	143.55	143.22	143.05	143.01
17	.43	.65	.19	.68	.74	.74	.77	.87	.54	.21	.05	.00
18	.45	.76	.38	.64	.67	.70	.73	.83	.53	.20	.04	.00
19	.45	.79	.52	.61	.67	.65	.67	.79	.50	.19	.04	.00
20	.42	.76	.55	.60	.72	.58	.59	.75	.49	.18	.03	.00
21	143.39	143.74	144.46	143.61	143.82	147.53	147.47	143.71	143.47	143.17	143.03	142.99
22	.36	.66	.32	.59	.94	.51	.30	.68	.45	.17	.03	.98
23	.34	.53	.29	.58	144.01	.53	.09	.67	.44	.16	.02	.98
24	.30	.45	.53	.58	.07	.54	146.85	.65	.42	.15	.01	.97
25	.28	.48	.81	.57	.24	.57	.56	.65	.41	.16	.00	.96
26	143.27	143.74	144.94	143.54	144.54	147.58	146.22	143.65	143.40	143.16	143.00	142.95
27	.27	144.07	.92	.52	.78	.58	145.98	.65	.39	.15	142.99	.93
28	.27	.38	.82	.50	.92	.60	.59	.64	.39	.14	.98	.92
29	.26	.41	.70	.55	.94	.62	.31	.63	.38	.13		.92
30	.31	.73	.70	.75	.94	.65	.17	.62	.38	.12		.95
31		145.00		.96	.91		144.85		.37	.12		.98
Mean	143.38	143.66	144.42	143.91	144.21	147.26	147.21	143.97	143.51	143.23	143.07	143.01
Max.	143.72	145.00	145.11	144.92	144.94	147.74	147.82	144.68	143.61	143.36	143.13	143.24
Min.	143.26	143.21	143.89	143.50	143.67	144.95	144.85	143.62	143.37	143.12	142.98	142.92

WATER YEAR 1965 : Max. 147.82 m. Min. 142.92 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.80	4.10	46	37	19	40	165	32	8.20	4.40	1.78	0.88
2	3.65	5.30	44	40	19	45	165	28	8.20	4.40	1.78	0.88
3	3.65	6.80	37	38	22	53	167	26	8.20	4.40	1.78	1.00
4	3.65	7.25	31	32	25	82	168	24	8.00	4.25	1.87	1.00
5	3.50	7.25	25	26	26	118	170	22	8.00	4.10	1.87	1.00
6	3.40	6.35	21	22	23	139	172	22	7.85	3.95	1.87	1.00
7	4.40	5.45	19	19	20	148	172	21	7.70	3.80	1.78	1.06
8	4.25	4.85	17	17	17	153	173	21	7.70	3.65	1.78	2.90
9	4.10	3.80	16	16	15	152	173	19	7.70	3.50	1.69	2.23
10	5.00	3.20	15	15	18	153	173	19	7.70	3.40	1.69	2.05
11	7.40	2.90	14	13	22	160	174	17	7.55	3.30	1.60	1.78
12	10	2.70	15	12	22	165	174	16	7.40	3.20	1.60	1.54
13	8.40	2.60	17	12	20	166	173	15	7.25	3.10	1.48	1.30
14	7.55	2.90	18	12	16	168	173	15	7.25	2.90	1.42	1.12
15	6.20	5.75	17	11	14	168	173	14	7.25	2.80	1.36	1.12
16	5.45	7.40	18	10	12	169	172	14	7.25	2.70	1.30	1.06
17	5.45	9.00	20	9.60	11	169	171	13	7.10	2.60	1.30	1.00
18	5.75	11	24	8.80	9.40	166	168	13	6.95	2.50	1.24	1.00
19	5.75	12	28	8.20	9.40	163	165	12	6.50	2.41	1.24	1.00
20	5.30	11	28	8.00	10	159	160	11	6.35	2.32	1.18	1.00
21	4.85	11	26	8.20	12	156	153	10	6.05	2.23	1.18	0.94
22	4.40	9.20	22	7.85	15	155	142	9.60	5.75	2.23	1.18	0.88
23	4.10	6.95	22	7.70	16	156	131	9.40	5.60	2.14	1.12	0.88
24	3.50	5.75	28	7.70	17	157	119	9.00	5.30	2.05	1.00	0.82
25	3.30	6.20	36	7.55	21	159	105	9.00	5.15	2.14	1.00	0.76
26	3.20	11	40	7.10	28	159	90	9.00	5.00	2.14	1.00	0.70
27	3.20	17	40	6.80	35	159	79	9.00	4.85	2.05	0.94	0.58
28	3.20	24	37	6.50	40	160	63	8.80	4.85	1.96	0.88	0.52
29	3.10	25	33	7.25	40	162	53	8.60	4.70	1.87		0.52
30	3.65	34	33	11	40	163	48	8.40	4.70	1.78		0.70
31		42		15	39		37		4.55	1.78		0.88
Total	143	314	787	459	653	4,322	4,421	465	207	90	40	34
Mean	4.77	10	26	15	21	144	143	15	6.67	2.90	1.43	1.09
Max.	10	42	46	40	40	169	174	32	8.20	4.40	1.87	2.90
Min.	3.10	2.60	14	6.50	9.40	40	37	8.40	4.55	1.78	0.88	0.52
Runoff - mcm.	12.355	27.130	67.997	39.658	56.419	373.421	381.974	40.176	17.885	7.776	3.456	2.938

WATER YEAR 1965 : Max. 174 Min. 0.52 Mean 33 Annual Runoff 1,031.184 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	24.00	147.82	174	Sept. 17	01.00	147.75	169

WATER YEAR 1965
CHEE RIVER BASIN

Nam Phong at Ban Tha Hin, Khon Kaen (E. 17)

Location: Lat. 16° – 26° – 20" N., Long 102° – 56' – 52" E., on the left bank, 20 meters downstream from the bridge of Khon Kaen Yang Talat road, opposite to Wat Tha Hin, Amphoe Muang, Khon Kaen.

Drainage Area: 14,441 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: BM. – H.S.1
Location: On the right bank near the gage site.
Elevation: + 10.797 m. (A.D.)

Gage Reading Frequency: 2 – time daily readings at 06.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 2 readings wich is adequate to represent its mean daily value.

Period of Available Gage Records: 1954, 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: Unstable, periodic rating curves are used for flow computation.

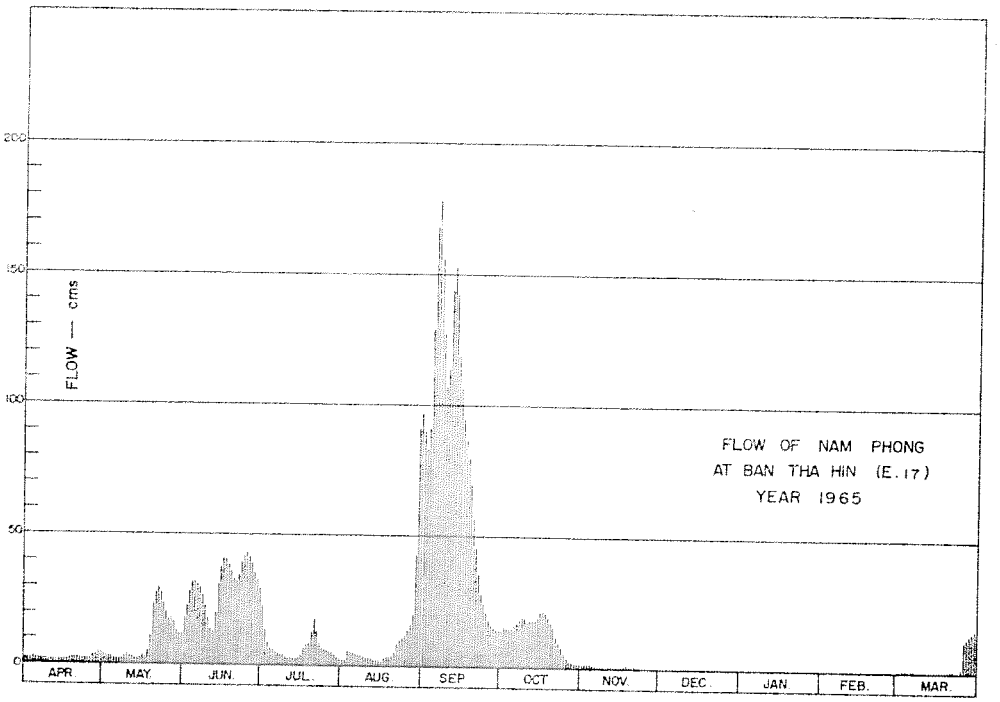
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. No diversion is made from the main river above the gage site, except for series of tank irrigation.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.00	1.14	1.90	2.19	1.00	4.27	2.42	1.07	0.81	0.80	0.82	0.81
2	0.99	.10	2.18	1.78	.00	.08	.43	.07	.81	.80	.83	.81
3	.98	.06	.42	.49	.29	.30	.43	.08	.81	.80	.84	.83
4	.97	.02	.53	.37	.26	5.26	.43	.04	.80	.79	.85	.83
5	.97	.00	.54	.33	.22	6.16	.48	0.99	.80	.79	.84	.83
6	0.96	1.00	2.50	1.25	1.18	6.37	2.53	0.98	0.81	0.79	0.84	0.83
7	1.04	.00	.44	.22	.15	.18	.57	.95	.80	.79	.83	.83
8	0.98	.00	.33	.19	.16	5.82	.68	.92	.80	.79	.83	.83
9	.94	.08	.16	.14	.11	.49	.74	.90	.80	.83	.82	.82
10	.92	.14	1.95	.11	.13	.62	.72	.89	.80	.82	.80	.82
11	0.91	1.08	1.77	1.09	1.09	6.05	2.69	0.90	0.80	0.81	0.80	0.82
12	.90	.07	.72	.07	.07	.15	.57	.90	.80	.81	.82	.81
13	.90	.04	2.05	.07	.03	.01	.65	.89	.83	.81	.86	.80
14	.92	0.96	.50	.05	0.99	5.70	.64	.91	.83	.81	.84	.80
15	.95	1.05	.76	.05	.97	.46	.73	.90	.83	.81	.84	.80
16	0.92	1.11	2.84	1.15	0.94	5.22	2.85	0.89	0.83	0.81	0.83	0.81
17	.93	.06	.84	.34	1.05	.05	.90	.91	.83	.81	.83	.83
18	.97	.22	.77	.43	.11	4.87	.85	.97	.82	.84	.82	.82
19	1.03	.62	.67	.47	.11	.60	.72	.94	.82	.83	.82	.80
20	.04	2.19	.58	.73	.14	.22	.58	.91	.82	.82	.81	.80
21	1.03	2.38	2.53	1.98	1.25	3.84	2.43	0.87	0.81	0.81	0.81	0.81
22	.03	.43	.64	.70	.46	.46	.25	.87	.81	.80	.81	.81
23	.01	.38	.80	.47	.58	.16	.05	.86	.82	.80	.83	.81
24	.00	.23	.88	.35	.63	2.95	1.86	.85	.84	.81	.82	.67
25	.00	.05	.92	.34	.67	.81	.66	.86	.83	.79	.81	.97
26	1.02	1.95	2.88	1.30	1.77	2.66	1.45	0.86	0.80	0.79	0.82	2.21
27	.09	.95	.79	.26	.88	.55	.29	.85	.80	.79	.82	.34
28	.17	.88	.68	.25	2.03	.47	.22	.83	.80	.80	.81	.41
29	.18	.74	.57	.19	.93	.42	.17	.82	.80	.82		.46
30	.16	.65	.44	.11	4.30	.41	.13	.82	.80	.82		.51
31		.65		.04	.45		.10		.80	.83		.53
Mean	1.00	1.46	2.49	1.34	1.51	4.52	2.27	0.92	0.81	0.81	0.82	1.12
Max.	1.18	2.43	2.92	2.19	4.45	6.37	2.90	1.08	0.84	0.84	0.86	2.53
Min.	0.90	0.96	1.72	1.04	0.94	2.41	1.10	0.82	0.80	0.79	0.80	0.80

WATER YEAR 1965 : Max. 6.37 m. Min. 0.79 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.50	4.08	17	23	2.50	90	14	1.55	0.38	0.35	0.42	0.38
2	2.41	3.60	23	14	2.50	83	15	1.55	0.38	0.35	0.45	0.38
3	2.32	3.16	29	9.04	5.97	91	15	1.60	0.38	0.35	0.49	0.45
4	2.23	2.72	32	7.15	5.58	129	15	1.40	0.35	0.32	0.52	0.45
5	2.23	2.50	32	6.55	5.06	168	15	1.15	0.35	0.32	0.49	0.45
6	2.14	2.50	31	5.45	4.56	178	16	1.10	0.38	0.32	0.49	0.45
7	2.04	2.50	30	5.06	4.20	156	17	0.95	0.35	0.32	0.45	0.45
8	2.32	2.50	27	4.68	4.32	127	18	0.80	0.35	0.32	0.45	0.45
9	1.96	3.38	23	4.08	3.72	107	19	0.70	0.35	0.45	0.42	0.42
10	1.78	4.08	18	3.72	3.96	114	19	0.66	0.35	0.42	0.35	0.42
11	1.69	3.38	14	3.49	3.49	144	18	0.70	0.35	0.38	0.35	0.42
12	1.60	3.27	13	3.27	3.27	153	18	0.70	0.35	0.38	0.42	0.38
13	1.60	2.94	20	3.27	2.83	141	18	0.66	0.45	0.38	0.56	0.35
14	1.78	2.14	31	3.05	2.41	119	18	0.75	0.45	0.38	0.49	0.35
15	2.05	3.05	38	3.05	2.23	106	19	0.70	0.45	0.38	0.49	0.35
16	1.78	3.72	41	4.20	1.96	95	21	0.66	0.45	0.38	0.45	0.38
17	1.87	3.16	41	6.70	3.05	87	22	0.75	0.45	0.38	0.45	0.45
18	2.23	5.06	39	8.08	3.72	80	21	1.05	0.42	0.49	0.42	0.42
19	2.83	11	36	8.72	3.72	70	19	0.90	0.42	0.45	0.42	0.35
20	2.94	23	33	13	4.08	57	17	0.75	0.42	0.42	0.38	0.35
21	2.83	28	32	18	5.45	46	15	0.59	0.38	0.38	0.38	0.38
22	2.83	30	35	13	8.56	36	12	0.59	0.38	0.35	0.38	0.38
23	2.61	28	40	8.72	10	28	10	0.56	0.42	0.35	0.45	0.38
24	2.50	24	42	6.85	11	24	7.66	0.56	0.49	0.38	0.42	0.07
25	2.50	20	43	6.70	12	21	5.74	0.56	0.45	0.32	0.38	1.05
26	2.72	18	42	6.10	14	18	4.00	0.56	0.35	0.32	0.42	12
27	3.49	18	39	5.58	16	16	2.83	0.52	0.35	0.32	0.42	13
28	4.44	16	36	5.45	20	15	2.38	0.45	0.35	0.35	0.38	14
29	4.56	13	33	4.68	43	14	2.08	0.42	0.35	0.42		15
30	4.32	12	30	3.72	91	14	1.86	0.42	0.35	0.42		16
31		12		2.94	97		1.70		0.35	0.45		16
Total	76	311	940	221	401	2,527	419	24	12	12	12	96
Mean	2.53	10	31	7.13	13	84	13	0.80	0.39	0.39	0.43	3.10
Max.	4.56	30	43	23	97	178	22	1.60	0.49	0.49	0.56	16
Min.	1.60	2.14	13	2.94	2.23	14	1.70	0.42	0.35	0.32	0.38	0.07
Runoff - mcm.	6.566	26.870	81.216	19.094	34.646	213.333	36.202	2.074	1.037	1.037	1.037	8.294

WATER YEAR 1965 : Max. 178 Min. 0.07 Mean 14 Annual Runoff 436.406 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 6	18.00	6.39	179	Sept. 12	18.00	6.15	153

WATER YEAR 1965
CHEE RIVER BASIN

Nam Phong at Ban Nam Phong, Khon Kaen (E. 22)

Location: Lat. 16° – 42' – 41" N., Long 102° – 48' – 30 E., on the right bank at Khon Kaen – Udon highway bridge, south of Nam Phong market, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 13,183 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 150.92 m. (M.S.L.)

Bench Mark: BM. H.S./R.I.D. No. 1
Location: On the abutment of the bridge, on the right bank.
Elevation: + 167,463 m. (M.S.L.)

Gage Reading Frequency: 3 – time daily readings at 06.00, 12.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings. which is adequate to represent its mean daily value.

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1956 – 57.
Rated by Float: –
Rated by Current Meter: 1956 – 57.

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

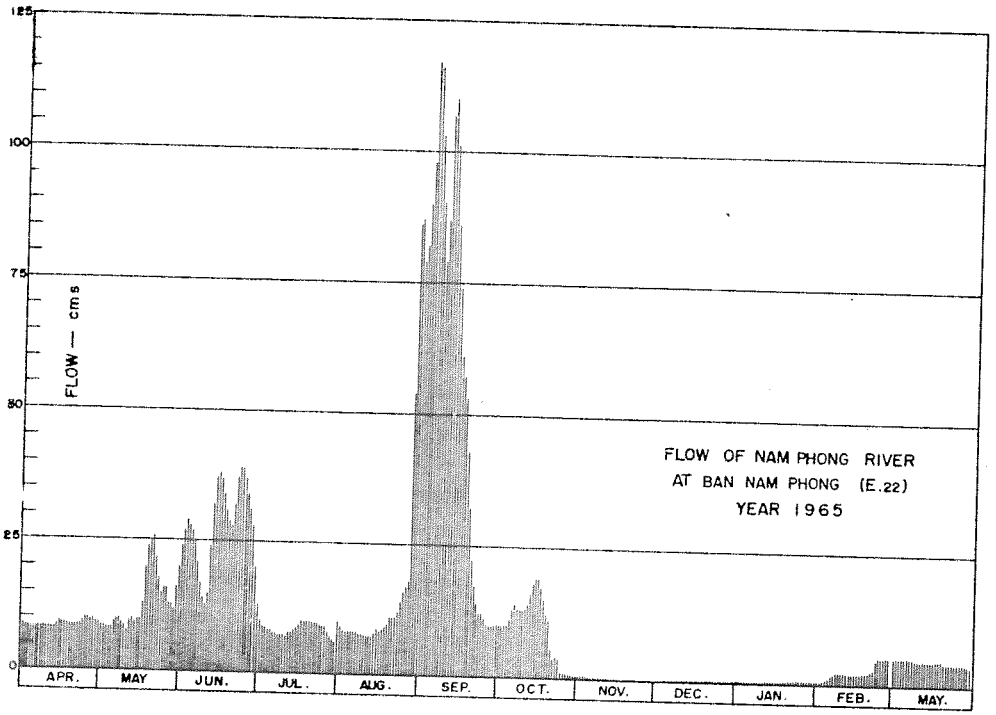
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	152.08	152.09	153.11	152.20	152.13	155.50	152.20	151.96	151.90	151.94	151.96	152.21
2	.07	.08	.31	.11	.06	.76	.20	.96	.90	.94	.96	.21
3	.07	.07	.38	.09	.05	.98	.20	.96	.92	.94	.97	.21
4	.06	.06	.35	.07	.05	156.52	.20	.95	.92	.94	152.00	.21
5	.05	.07	.30	.05	.05	.50	.30	.95	.93	.94	.02	.21
6	152.04	152.15	153.17	152.02	152.04	156.14	152.45	151.95	151.93	151.94	152.05	152.21
7	.06	.24	152.97	.00	.03	155.74	.48	.94	.92	.94	.08	.21
8	.05	.23	.70	151.97	.02	.40	.47	.94	.92	.94	.10	.21
9	.05	.12	.54	.98	.01	.65	.43	.94	.93	.94	.10	.20
10	.05	.09	.44	.98	.00	156.24	.43	.94	.93	.94	.10	.20
11	152.05	152.01	152.61	151.97	151.98	156.32	152.45	151.94	151.93	151.95	152.09	152.20
12	.05	.18	153.11	.99	.97	.06	.54	.93	.93	.95	.09	.20
13	.04	.20	.53	152.02	.96	155.63	.65	.93	.93	.95	.08	.20
14	.08	.15	.78	.05	152.02	.26	.76	.92	.93	.95	.08	.19
15	.14	.22	.84	.08	.08	154.80	.83	.92	.93	.95	.08	.19
16	152.13	152.23	153.78	152.14	152.03	154.62	152.85	151.91	151.93	151.95	152.08	152.19
17	.12	.46	.63	.21	.08	.47	.72	.90	.93	.95	.08	.19
18	.11	.88	.49	.24	.13	.03	.57	.90	.94	.95	.08	.20
19	.10	153.14	.38	.22	.18	153.53	.39	.90	.94	.95	.08	.20
20	.08	.17	.33	.20	.29	152.99	.25	.89	.94	.95	.09	.18
21	152.08	153.23	153.57	152.19	152.30	152.68	152.21	151.88	151.94	151.96	152.11	152.18
22	.09	.03	.77	.17	.30	.52	.16	.88	.94	.96	.12	.18
23	.06	152.79	.87	.16	.38	.38	.17	.89	.94	.96	.20	.18
24	.14	.61	.89	.15	.53	.33	.15	.89	.94	.96	.21	.17
25	.22	.66	.80	.13	.62	.28	.02	.89	.94	.96	.21	.17
26	152.21	152.62	153.67	152.12	152.68	152.22	152.01	151.90	151.94	151.96	152.21	152.17
27	.19	.47	.50	.04	.75	.19	.00	.90	.94	.96	.21	.17
28	.20	.40	.36	151.94	154.53	.19	151.99	.90	.94	.96	.21	.17
29	.15	.39	152.89	.90	155.62	.20	.98	.90	.94	.96		.16
30	.12	.64	.44	.88	.66	.21	.97	.90	.94	.96		.16
31		.92		152.20	.43		.97		.94	.96		.16
Mean	152.10	152.44	153.32	152.07	152.58	154.34	152.32	151.92	151.93	151.95	152.09	152.19
Max.	152.22	153.23	153.89	152.24	155.66	156.52	152.85	151.96	151.94	151.96	152.21	152.21
Min.	152.04	152.01	152.44	151.88	151.96	152.19	151.97	151.88	151.90	151.94	151.96	152.16

WATER YEAR 1965 : Max. 156.52 m. Min. 151.88 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	8.58	8.69	24	10	9.16	82	10	0.60	0.00	0.40	0.60	5.04
2	8.47	8.58	27	8.92	8.36	90	10	0.60	0.00	0.40	0.60	5.04
3	8.47	8.47	29	8.69	8.25	98	10	0.60	0.20	0.40	0.70	5.04
4	8.36	8.36	28	8.47	8.25	117	10	0.50	0.20	0.40	1.00	5.04
5	8.25	8.47	27	8.25	8.25	116	11	0.50	0.30	0.40	1.28	5.04
6	8.14	9.40	25	7.92	8.14	103	13	0.50	0.30	0.40	1.80	5.04
7	8.36	10	21	7.70	8.03	90	14	0.40	0.20	0.40	2.22	5.04
8	8.25	10	17	7.37	7.92	79	13	0.40	0.20	0.40	2.40	5.04
9	8.25	9.04	14	7.48	7.81	87	13	0.40	0.30	0.40	2.40	4.80
10	8.25	8.69	13	7.48	7.70	107	13	0.40	0.30	0.40	2.40	4.80
11	8.25	7.81	15	7.37	7.48	110	13	0.40	0.30	0.50	2.36	4.80
12	8.25	9.76	24	7.59	7.37	101	14	0.30	0.30	0.50	2.36	4.80
13	8.14	10	32	7.92	7.26	86	16	0.30	0.30	0.50	2.22	4.80
14	8.58	9.40	37	8.25	7.92	74	18	0.20	0.30	0.50	2.22	4.56
15	9.28	10	38	8.58	8.58	61	19	0.20	0.30	0.50	2.22	4.56
16	9.16	10	37	9.28	8.03	57	19	0.10	0.30	0.50	2.22	4.56
17	9.04	13	34	10	8.58	53	17	0.00	0.30	0.50	2.22	4.56
18	8.92	20	31	10	9.16	42	15	0.00	0.40	0.50	2.22	4.80
19	8.80	24	29	10	9.76	32	12	0.00	0.40	0.50	2.22	4.80
20	8.58	25	28	10	11	22	11	0.00	0.40	0.50	2.36	4.32
21	8.58	26	32	9.88	11	17	5.04	0.00	0.40	0.60	2.64	4.32
22	8.69	22	37	9.64	11	14	3.84	0.00	0.40	0.60	2.88	4.32
23	8.36	18	39	9.52	12	12	4.08	0.00	0.40	0.60	4.80	4.32
24	9.28	15	39	9.40	14	12	3.60	0.00	0.40	0.60	5.04	4.08
25	10	16	37	9.16	16	11	1.28	0.00	0.40	0.60	5.04	4.08
26	10	16	34	9.04	17	10	1.14	0.00	0.40	0.60	5.04	4.08
27	9.88	13	31	8.14	18	9.88	1.00	0.00	0.40	0.60	5.04	4.08
28	10	13	28	7.04	54	9.88	0.90	0.00	0.40	0.60	5.04	4.08
29	9.40	12	20	6.60	86	10	0.80	0.00	0.40	0.60		3.84
30	9.04	16	13	6.40	87	10	0.70	0.00	0.40	0.60		3.84
31		20		10	79		0.70		0.40	0.60		3.84
Total	264	416	840	266	572	1,723	294	6.40	9.70	16	73	141
Mean	8.80	13	28	8.58	18	57	9.49	0.21	0.31	0.52	2.61	4.54
Max.	10	26	39	10	87	117	19	0.60	0.40	0.60	5.04	5.04
Min.	8.14	7.81	13	6.40	7.26	9.88	0.70	0.00	0.00	0.40	0.60	3.84
Runoff — mcm.	22.809	35.942	72.576	22.982	49.421	148.867	25.402	0.553	0.838	1.382	6.307	12.182

WATER YEAR 1965 : Max. 117 Min. 0.00 Mean 13 Annual Runoff 399.263 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 4	18.00	156.60	119				

WATER YEAR 1965
CHEE RIVER BASIN

Lam Pao at Ban Na Kaeo, Kalasin (E. 30)

Location: Lat. 16° – 47' – 34" N., Long 103° – 26' – 58" E., on the left bank about 500 meters west of Ban Na Kaeo, 600 meters downstream from the confluence with Lam Phanchat, Amphoe Sahatsakhan, Kalasin.

Drainage Area: 3,955 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water – stage recorder.

Zero Gage at Bottom at: + 145.00 m. (M.S.L.)

Bench Mark:
- Location: At the foot of the flag pole, office of station E. 30.
- Elevation: + 158.602 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1957 to date.

Rating Operation:
- Period of Rating: 1957 – 1964.
- Rated by Float: –
- Rated by Current Meter: 1957 – 1964.

Stability of Channel Regimes: Stable.

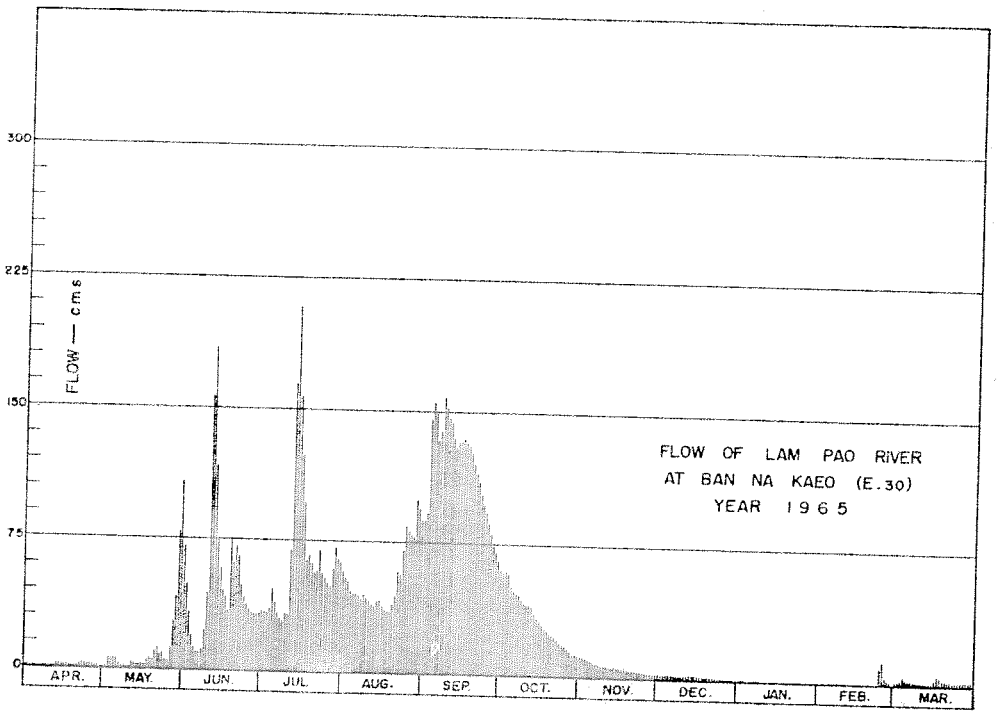
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	145.67	145.73	148.65	147.55	148.29	149.11	148.35	146.58	145.92	145.75	145.70	145.80
2	.67	.75	.02	.55	.19	.20	.29	.54	.92	.74	.72	.80
3	.67	146.23	147.50	.50	.12	150.42	.33	.50	.92	.74	.72	.85
4	.66	.21	.02	.60	147.94	.63	.31	.46	.91	.73	.71	146.15
5	.65	.00	146.66	.96	.89	.51	.09	.43	.91	.73	.72	145.99
6	145.65	145.90	146.48	147.70	147.90	150.16	148.00	146.39	145.91	145.75	145.76	145.89
7	.67	.86	.48	.49	.89	.48	147.97	.32	.90	.75	.77	.85
8	.67	.85	.52	.38	.81	.69	.94	.29	.89	.74	.75	.82
9	.67	.81	147.05	.37	.90	.56	.85	.28	.91	.73	.73	.80
10	.66	.75	.89	.52	.84	.44	.78	.27	.89	.73	.72	.79
11	145.72	145.78	150.67	147.45	147.77	150.39	147.75	146.26	145.89	145.74	145.72	145.78
12	.80	.99	151.27	148.60	.72	.18	.76	.23	.90	.74	.72	.77
13	.79	.95	149.79	150.80	.67	.09	.72	.20	.92	.73	.71	.76
14	.78	.92	148.80	151.67	.79	.13	.57	.20	.92	.73	.71	.75
15	.77	.92	.31	150.66	.82	.15	.49	.19	.91	.73	.71	.75
16	145.75	145.91	147.93	149.95	147.68	150.17	147.42	146.17	145.91	145.73	145.70	145.77
17	.74	.92	.81	.31	.60	.14	.35	.15	.89	.73	.70	146.19
18	.73	146.13	.53	148.47	.58	.09	.28	.12	.87	.74	.70	.09
19	.74	.21	148.79	.54	.57	.00	.22	.11	.86	.73	.69	145.95
20	.74	.14	.38	.41	.70	149.87	.17	.10	.84	.73	.69	.88
21	145.84	146.48	148.67	148.26	147.87	149.75	147.12	146.08	145.83	145.73	145.69	145.86
22	146.06	.53	.49	.30	148.31	.63	.05	.05	.82	.73	.68	.85
23	145.95	.29	.04	.61	.23	.48	.00	.03	.80	.73	.69	.83
24	.83	.48	147.82	.25	.64	.34	146.94	.00	.79	.72	146.46	.81
25	.81	.18	.68	.19	149.00	.20	.89	145.98	.78	.72	.63	.80
26	145.84	146.11	147.58	148.11	148.94	149.04	146.83	145.96	145.78	145.72	146.03	145.79
27	.83	.55	.52	.02	.86	148.90	.78	.93	.78	.72	145.84	.83
28	.77	147.33	.48	.32	.85	.76	.71	.91	.76	.72	.81	.81
29	.79	.82	.47	.66	149.39	.62	.66	.90	.75	.71		.79
30	.77	148.90	.49	.50	.25	.49	.62	.91	.75	.71		.79
31		149.58		.44	.11		.60		.75	.70		.78
Mean	145.75	147.36	148.12	148.43	148.14	149.90	147.57	146.21	145.86	145.73	145.79	145.85
Max.	146.06	149.58	151.27	151.67	149.39	150.69	148.35	146.58	145.92	145.75	146.63	146.19
Min.	145.65	145.73	146.48	147.37	147.57	148.49	146.60	145.90	145.75	145.70	145.68	145.75

WATER YEAR 1965 : Max. 151.67 m. Min. 145.65 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.72	1.14	71	34	58	88	60	12	2.82	1.30	0.90	1.70
2	0.72	1.30	49	34	54	92	58	11	2.82	1.22	1.06	1.70
3	0.72	6.45	33	33	52	145	59	11	2.82	1.22	1.06	2.15
4	0.66	6.15	21	36	46	155	58	9.96	2.71	1.14	0.98	5.40
5	0.60	6.00	13	47	44	150	51	9.48	2.71	1.14	1.06	3.59
6	0.60	2.60	10	39	45	133	48	8.85	2.71	1.30	1.38	2.51
7	0.72	2.24	10	33	44	138	47	7.80	2.60	1.30	1.46	2.15
8	0.72	2.15	11	30	42	158	46	7.35	2.51	1.22	1.30	1.88
9	0.72	1.79	22	29	45	152	43	7.20	2.71	1.14	1.14	1.70
10	0.78	1.30	44	33	43	146	41	7.05	2.51	1.14	1.06	1.62
11	1.06	1.54	157	32	41	144	40	6.90	2.51	1.22	1.06	1.54
12	1.70	3.59	187	69	39	134	40	6.45	2.60	1.22	1.06	1.46
13	1.62	3.15	117	164	38	130	39	6.00	2.82	1.14	0.98	1.38
14	1.54	2.82	76	208	41	132	35	6.00	2.82	1.14	0.98	1.30
15	1.46	2.82	58	157	42	133	33	5.88	2.71	1.14	0.98	1.30
16	1.30	2.71	46	124	38	134	31	5.64	2.71	1.14	0.90	1.46
17	1.22	2.82	42	96	36	132	29	5.40	2.51	1.14	0.90	5.88
18	1.14	5.16	34	64	35	130	27	5.04	2.33	1.22	0.90	4.69
19	1.22	6.15	76	67	35	126	26	4.92	2.24	1.14	0.84	3.15
20	1.22	5.28	61	62	39	120	24	4.80	2.06	1.14	0.84	2.42
21	2.06	10	71	57	44	115	23	4.58	1.97	1.14	0.84	2.24
22	4.36	11	65	58	58	110	22	4.25	1.88	1.14	0.78	2.15
23	3.15	7.35	49	69	56	103	21	4.03	1.70	1.14	0.84	1.97
24	1.97	10	42	56	70	97	19	3.70	1.62	1.06	9.96	1.79
25	1.79	5.76	38	54	84	92	18	3.48	1.54	1.06	13	1.70
26	2.06	4.92	35	51	82	86	17	3.26	1.54	1.06	4.03	1.62
27	1.97	11	33	49	79	80	16	2.93	1.54	1.06	2.06	1.97
28	1.46	28	32	59	78	75	14	2.71	1.38	1.06	1.79	1.79
29	1.62	42	32	71	99	70	13	2.60	1.30	0.98		1.62
30	1.46	80	33	65	94	65	13	2.71	1.30	0.98		1.62
31		108		63	88		12		1.30	0.90		1.54
Total	42	385	1,568	2,043	1,689	3,303	1,023	183	67	35	54	69
Mean	1.41	12	52	66	54	110	33	6.10	2.15	1.13	1.93	2.22
Max.	4.36	108	187	208	99	158	60	12	2.82	1.30	13	5.88
Min.	0.60	1.14	10	29	35	65	12	2.60	1.30	0.90	0.78	1.30
Runoff - mcm.	3.629	33.264	135.475	176.515	145.930	285.379	88.387	15.811	5.790	3.024	4.666	5.962

WATER YEAR 1965 : Max. 208 Min. 0.60 Mean 29 Annual Runoff 903.830 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 11	23.00	152.19	239	Jul. 14	05.00	152.40	252

WATER YEAR 1965
CHEE RIVER BASIN

Nam Phong at Ban Huai Sai, Khon Kaen. (E. 31A)

Location: Lat. 16° - 46' 20" N., Long 102° - 38' - 02" E., on the left bank at Ban Huai Sai, 500 meters from concrete bridge, crossing Nam Phong on the way to Ubolrat Dam, Amphoe Nam Phong, Khon Kaen.

Drainage Area: 12,109 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 155.00 m. (M.S.L.)

Bench Mark:
Location:
Elevation:

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

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1965.

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

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

Overbank Flow Conditions: No overbank flow.

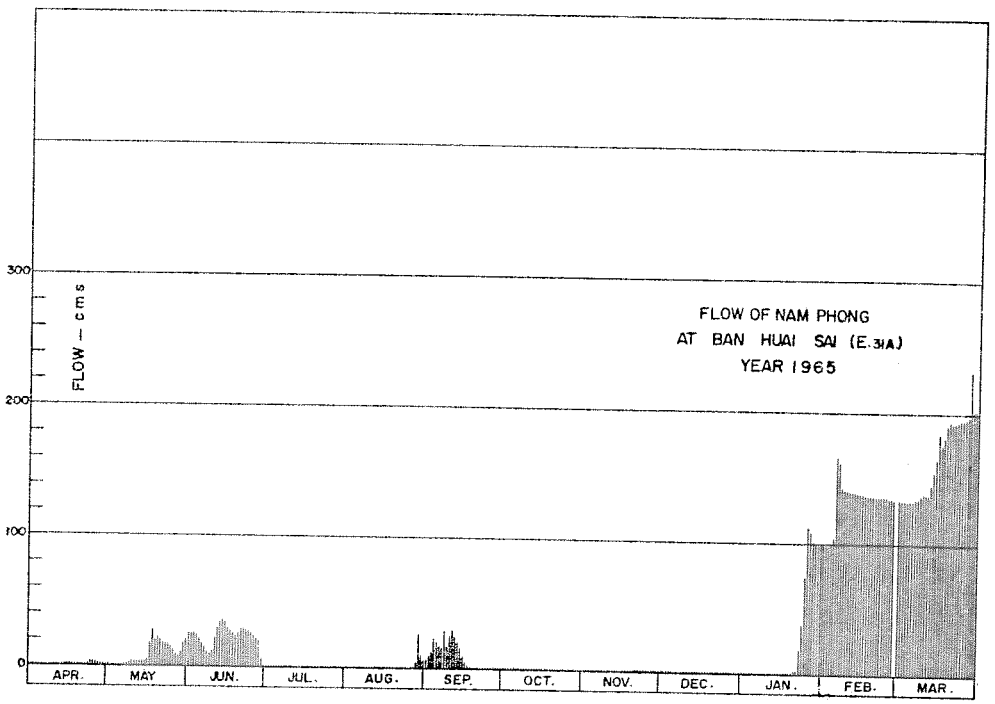
General Description: Records are classified as fair. Flow affected by the construction of Ubolrat Dam. The data presented is from actual observation at the gage site, no adjustment is made for virgin flow.

Remark: No gage height record for Aug. 18 - 25, because the channel was dry.

GAGE HEIGHT IN METER (M.S.L), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	155.76	155.83	157.71	155.47	155.36	156.45	155.70	155.55	155.49	155.49	160.46	161.37
2	.75	.82	.73	.47	.34	.70	.70	.53	.49	.51	.46	.36
3	.74	.81	.73	.48	.36	.91	.69	.50	.49	.52	.46	.35
4	.72	.80	.70	.46	.39	157.54	.67	.50	.49	.53	.52	.35
5	.71	.74	.52	.44	.39	.39	.66	.52	.49	.51	.59	.36
6	155.68	155.79	157.27	155.43	155.39	157.23	155.64	155.50	155.49	155.52	162.17	161.36
7	.73	.87	.08	.42	.40	.05	.63	.50	.49	.52	.07	.37
8	.74	.99	156.82	.41	.40	.86	.63	.50	.49	.49	161.60	.40
9	.76	156.08	.70	.41	.41	.15	.62	.50	.49	.49	.55	.45
10	.74	.17	.81	.41	.34	.66	.60	.50	.49	.49	.55	.49
11	155.72	156.14	157.56	155.40	155.32	157.86	155.59	155.49	155.49	155.49	161.53	161.47
12	.72	.11	.92	.40	.33	.65	.59	.49	.49	.49	.52	.48
13	.72	.13	158.15	.40	.30	.41	.58	.49	.49	.49	.51	.65
14	.76	.17	.21	.40	.32	.11	.56	.49	.49	.50	.50	.89
15	.87	.19	.16	.40	.18	156.80	.57	.49	.49	.51	.48	162.12
16	155.93	156.14	157.92	155.42	155.12	156.34	155.56	155.49	155.49	155.50	161.48	162.59
17	.91	157.26	.81	.42	.05	155.98	.56	.49	.49	.48	.45	.38
18	.86	.81	.72	.39		.68	.56	.49	.49	.49	.44	.52
19	.83	.41	.65	.41		.60	.53	.49	.48	.49	.44	.72
20	.81	.59	.68	.54		.60	.53	.48	.48	.50	.43	.79
21	155.78	157.49	157.87	155.41		155.60	155.53	155.49	155.48	156.07	161.42	162.77
22	.76	.27	.89	.40		.60	.53	.49	.48	.07	.42	.77
23	.89	.20	.87	.37		.60	.52	.49	.48	157.29	.42	.78
24	156.21	.18	.84	.38		.60	.49	.49	.48	158.31	.43	.80
25	.21	.10	.73	.40		.59	.47	.49	.48	159.66	.42	.81
26	156.14	156.87	157.63	155.39	155.27	155.59	155.46	155.49	155.48	160.82	161.40	162.83
27	.05	.69	.49	.38	.55	.59	.48	.48	.49	.72	.39	.84
28	.00	.64	.41	.38	156.24	.59	.50	.48	.49	.52	.38	.55
29	155.95	.75	156.44	.39	157.71	.59	.51	.48	.49	.47		.94
30	.88	157.27	155.65	.40	156.72	.59	.53	.48	.49	.47		.94
31		.55		.39	.40		.53		.49	.46		.88
Mean	155.91	156.58	157.52	155.42		156.46	155.57	155.49	155.49	156.80	161.34	162.14
Max.	156.21	157.81	158.21	155.54		157.86	155.70	155.55	155.49	160.82	162.17	162.94
Min.	155.68	155.74	155.65	155.37		155.59	155.46	155.48	155.48	155.48	160.46	161.35

WATER YEAR 1965 : Max. 162.94 m. Min. 155.05 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.44	0.72	25	0.00	0.00	5.00	0.20	0.00	0.00	0.00	98	133
2	0.40	0.68	25	0.00	0.00	8.50	0.20	0.00	0.00	0.00	98	132
3	0.36	0.64	25	0.00	0.00	12	0.18	0.00	0.00	0.00	98	132
4	0.28	0.60	24	0.00	0.00	21	0.14	0.00	0.00	0.00	100	132
5	0.24	0.36	21	0.00	0.00	19	0.12	0.00	0.00	0.00	103	132
6	0.16	0.56	17	0.00	0.00	17	0.08	0.00	0.00	0.00	165	132
7	0.32	0.88	14	0.00	0.00	14	0.06	0.00	0.00	0.00	161	133
8	0.36	1.45	10	0.00	0.00	28	0.06	0.00	0.00	0.00	142	134
9	0.44	1.90	8.50	0.00	0.00	16	0.04	0.00	0.00	0.00	140	136
10	0.36	2.70	10	0.00	0.00	24	0.00	0.00	0.00	0.00	140	138
11	0.28	2.70	22	0.00	0.00	28	0.00	0.00	0.00	0.00	139	137
12	0.28	2.10	29	0.00	0.00	23	0.00	0.00	0.00	0.00	139	137
13	0.28	2.30	33	0.00	0.00	19	0.00	0.00	0.00	0.00	138	144
14	0.24	2.70	35	0.00	0.00	15	0.00	0.00	0.00	0.00	138	153
15	0.88	2.90	34	0.00	0.00	10	0.00	0.00	0.00	0.00	137	163
16	1.55	2.40	29	0.00	0.00	4.40	0.00	0.00	0.00	0.00	137	184
17	1.05	17	27	0.00	0.00	1.40	0.00	0.00	0.00	0.00	136	175
18	0.84	27	25	0.00	0.00	0.16	0.00	0.00	0.00	0.00	136	181
19	0.72	19	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	136	190
20	0.64	22	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	135	193
21	0.52	20	28	0.00	0.00	0.00	0.00	0.00	0.00	1.85	135	192
22	0.44	17	28	0.00	0.00	0.00	0.00	0.00	0.00	1.85	135	192
23	0.96	16	28	0.00	0.00	0.00	0.00	0.00	0.00	17	135	193
24	3.10	16	27	0.00	0.00	0.00	0.00	0.00	0.00	37	135	194
25	3.10	14	25	0.00	0.00	0.00	0.00	0.00	0.00	73	135	194
26	2.40	11	23	0.00	0.00	0.00	0.00	0.00	0.00	459	134	195
27	1.75	8.35	20	0.00	0.00	0.00	0.00	0.00	0.00	450	134	196
28	1.50	7.60	19	0.00	3.00	0.00	0.00	0.00	0.00	432	133	182
29	1.15	9.25	5.40	0.00	25	0.00	0.00	0.00	0.00	427		201
30	0.92	3.70	0.10	0.00	8.80	0.00	0.00	0.00	0.00	427		201
31		6.50		0.00	5.00		0.00		0.00	426		198
Total	26	240	664	0.00	42	265	1.08	0.00	0.00	2,752	3,692	5,129
Mean	0.85	7.74	22	0.00	1.35	8.51	0.03	0.00	0.00	89	132	165
Max.	3.10	27	35	0.00	25	28	0.20	0.00	0.00	459	165	201
Min.	0.24	0.36	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98	132
Runoff - mcm.	2.246	20.736	57.370	0.000	3.629	22.896	0.093	0.000	0.000	237.773	318.989	443.146

WATER YEAR 1965: Max. 459 Min. 0.00 Mean 35 Annual Runoff 1,106,870 mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
CHEE RIVER BASIN

Chee River at Ban Nong Oh, Chaiyaphum (E. 32)

Location: Lat. 15° – 54' – 20" N., Long 101° – 42' – 45" E., on the left bank at Ban Nong Oh, 100 meters downstream from Wat Tha Sa-Nga, Amphoe Ban Khwao, Chaiyaphum.

Drainage Area: 2,906 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 198.00 m. (M.S.L.)

Bench Mark: BM. E 32
Location: At the former office of station E.32.
Elevation: + 210.748 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1960 to date.

Rating Operation:
Period of Rating: 1960 to date.
Rated by Float: –
Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

Overbank Flow Conditions: No overbank flow.

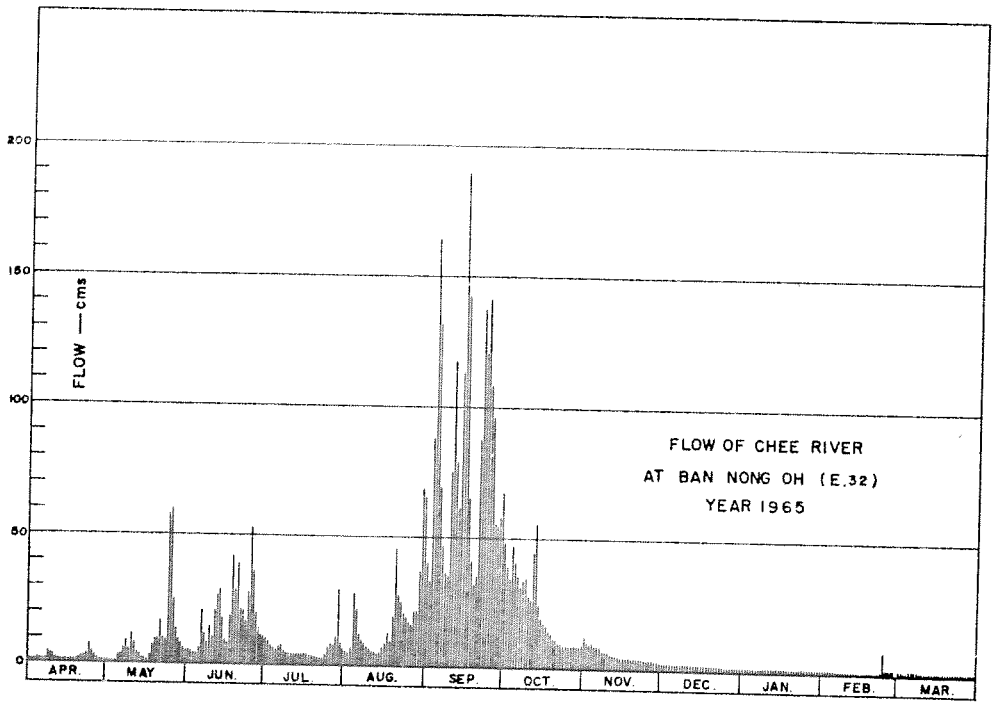
General Description: Records are classified as good. No diversion is made above the gage site.

Remark: No gage height record for Aug. 18–25, because the channel is dry.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	198.80	198.77	199.11	199.39	199.10	200.82	201.15	199.41	198.91	198.78	198.71	198.75
2	.84	.76	.10	.32	.07	.45	200.66	.36	.91	.77	.71	.72
3	.82	.75	.02	.24	.21	202.68	.46	.29	.90	.77	.71	.70
4	.85	.76	.04	.18	200.20	205.14	.99	.32	.90	.77	.71	.70
5	.82	.98	.17	.13	199.91	204.12	.71	.26	.89	.76	.71	.75
6	198.82	199.00	199.88	199.22	199.49	201.99	200.48	199.28	198.89	198.76	198.70	198.78
7	.84	.18	.49	.24	.36	.07	.25	.21	.89	.76	.69	.75
8	199.03	.31	.24	.12	.26	200.62	.41	.17	.88	.76	.69	.71
9	198.99	.13	.60	.06	.21	.57	.46	.17	.88	.76	.68	.70
10	.93	.48	.44	.04	.16	202.23	.13	.15	.87	.76	.68	.69
11	198.85	199.22	199.88	199.02	199.11	204.17	200.06	199.11	198.87	198.76	198.68	198.68
12	.82	.03	200.16	.01	.09	202.38	.88	.09	.87	.76	.67	.68
13	.81	198.96	.24	.02	.06	201.69	201.41	.08	.86	.75	.67	.68
14	.81	.91	199.75	.04	.11	203.54	199.97	.06	.86	.75	.67	.68
15	.80	.89	.37	.03	.20	205.87	.73	.04	.85	.75	.67	.68
16	198.79	198.84	199.26	199.05	199.31	204.45	199.67	199.03	198.85	198.75	198.67	198.68
17	.79	.95	.80	.01	.52	201.85	.60	.02	.84	.74	.66	.67
18	.81	199.22	200.88	198.98	.34	200.86	.51	.02	.84	.73	.62	.70
19	.82	.34	201.27	.96	.80	.41	.46	.01	.83	.72	.65	.68
20	.90	.36	200.77	.93	201.03	.55	.41	.01	.83	.72	.65	.67
21	198.91	199.70	199.93	198.93	200.18	202.63	197.37	199.01	198.83	198.72	198.65	198.61
22	.94	.39	.87	.91	.05	204.30	.33	.00	.83	.72	.67	.64
23	199.00	.33	.71	.90	199.83	203.78	.30	.00	.82	.73	.68	.65
24	.23	201.55	200.19	199.03	.81	204.45	.28	198.98	.82	.74	199.25	.64
25	.04	202.04	201.35	.20	.71	203.38	.27	.96	.81	.72	198.83	.64
26	198.93	200.10	200.61	199.28	199.67	202.94	199.26	198.96	198.80	198.71	198.75	198.60
27	.86	199.60	199.83	.26	.86	201.44	.27	.95	.80	.71	.76	.64
28	.84	.33	.57	.43	.88	.39	.27	.94	.80	.71	.77	.61
29	.80	.26	.44	200.24	200.67	.52	.26	.93	.80	.71		.61
30	.79	.18	.44	199.31	201.97	.93	.26	.92	.79	.71		.65
31		.10		.14	.85		.32		.78	.71		.79
Mean	198.88	199.34	199.81	199.15	199.74	202.44	199.92	199.09	198.85	198.74	198.71	198.68
Max.	199.23	202.04	201.35	200.24	201.97	205.87	201.41	199.41	198.91	198.78	199.25	198.79
Min.	198.79	198.75	199.02	198.90	199.06	200.41	197.27	198.92	198.78	198.71	198.62	198.60

WATER YEAR 1965 : Max. 205.87 m. Min. 197.27 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.40	1.16	5.66	10	5.50	40	48	12	2.84	1.54	1.02	1.32
2	1.90	1.08	5.50	9.18	5.06	33	39	10	2.84	1.47	1.02	1.10
3	1.65	1.00	4.33	7.81	7.31	88	34	9.02	2.70	1.47	1.02	0.95
4	2.02	1.08	4.62	6.82	28	164	46	9.63	2.70	1.47	1.02	0.95
5	1.65	3.76	6.65	5.99	22	131	40	8.47	2.60	1.40	1.02	1.32
6	1.65	4.04	21	7.48	12	69	35	8.83	2.60	1.40	0.95	1.54
7	1.90	6.82	12	7.81	9.94	46	30	7.55	2.60	1.40	0.89	1.32
8	4.48	9.00	7.81	5.83	8.14	36	33	6.84	2.50	1.40	0.89	1.02
9	3.90	6.00	15	4.91	7.31	35	34	6.84	2.50	1.40	0.84	0.95
10	3.21	12	11	4.62	6.49	75	27	6.50	2.40	1.40	0.84	0.89
11	2.02	7.48	21	4.33	5.66	132	26	5.78	2.40	1.40	0.84	0.84
12	1.65	4.48	27	4.18	5.35	79	44	5.31	2.40	1.40	0.78	0.84
13	1.52	3.48	29	4.33	4.91	61	55	5.16	2.30	1.32	0.78	0.84
14	1.52	2.29	18	4.62	5.66	113	24	4.85	2.30	1.32	0.78	0.84
15	1.40	2.52	10	4.47	7.15	189	19	4.55	2.20	1.32	0.78	0.84
16	1.32	1.90	8.14	4.77	8.99	142	17	4.40	2.20	1.32	0.78	0.84
17	1.32	3.34	19	4.18	13	65	16	4.25	2.10	1.25	0.73	0.78
18	1.52	7.40	42	3.76	9.56	41	14	4.25	2.10	1.17	0.51	0.95
19	1.65	9.56	29	3.48	19	32	13	4.10	1.99	1.10	0.67	0.84
20	2.65	9.95	39	3.07	45	35	11	4.10	1.99	1.10	0.67	0.78
21	2.79	17	22	3.07	28	87	11	4.10	1.99	1.10	0.67	0.45
22	3.21	10	21	2.79	25	137	9.84	4.08	1.99	1.10	0.78	0.62
23	4.04	9.37	17	2.65	20	120	9.20	4.08	1.89	1.17	0.84	0.67
24	7.64	58	28	4.47	19	141	8.83	3.80	1.89	1.25	8.30	0.62
25	4.62	70	53	7.15	17	108	8.65	3.50	1.79	1.10	1.99	0.62
26	3.07	26	36	8.47	16	96	8.47	3.53	1.69	1.02	1.32	0.40
27	2.15	14	20	8.10	21	55	8.65	3.40	1.69	1.02	1.40	0.62
28	1.90	9.37	14	11	21	54	8.65	3.25	1.69	1.02	1.47	0.45
29	1.40	8.14	11	29	37	57	8.47	3.11	1.69	1.02		0.45
30	1.32	6.82	11	8.99	68	67	8.47	2.98	1.62	1.02		0.67
31		5.50		6.16	65		9.63		1.54	1.02		1.62
Total	72	334	572	204	573	2,553	705	168	68	39	34	27
Mean	2.41	11	19	6.58	18	84	23	5.61	2.18	1.25	1.20	0.87
Max.	7.64	70	53	29	68	189	55	12	2.84	1.54	8.30	1.62
Min.	1.32	1.00	4.33	2.65	4.91	32	8.47	2.98	1.54	1.02	0.51	0.40
Runoff - mcm.	6.221	28.858	49.421	17.656	49.507	220.579	60.912	14.515	5.875	3.370	2.938	2.333

WATER YEAR 1965 : Max. 189 Min. 0.40 Mean 15 Annual Runoff 462.153 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 15	18.00	206.17	192	Sept. 4	18.00	205.36	172

WATER YEAR 1965
CHEE RIVER BASIN

Nam Yang at Ban Nong Saeng Thung, Roi Et (E.33A)

Location: Lat. 16° - 19' - 31" N., Long 104° - 01' - 17" E., on the left bank, 1 kilometer south-east of Ban Nong Saeng - Thung, 2 kilometers south-west of Ban Nong Doen, Amphoe Phon Thong, Roi Et.

Drainage Area: 2,061 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 133.967 m. (M.S.L.)

Bench Mark:
- Location: At the foot of the flag pole, office of station E.33A.
- 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 to date.
- Rated by Float: -
- Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Stable.

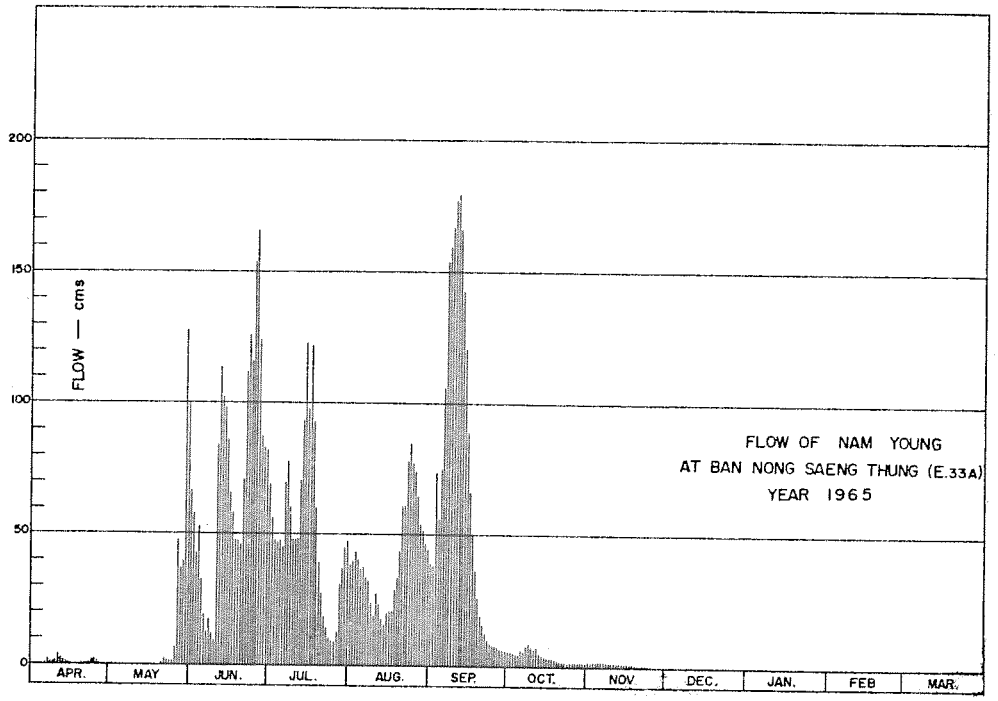
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. The gage site is downstream of Nam Yang Dam which is under construction. Stage and discharge are somewhat effected by the construction. The presented data is from actual observation at the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	134.52	134.59	137.36	137.91	136.76	136.66	135.31	134.94	134.71	134.64	134.60	134.60
2	.53	.60	.08	.41	.68	.65	.28	.95	.74	.63	.63	.59
3	.56	.64	136.68	.07	.71	.52	.26	.92	.74	.63	.62	.59
4	.56	.60	.93	136.72	.69	.49	.24	.89	.72	.63	.62	.60
5	.56	.58	.30	.83	.62	.68	.24	.88	.73	.63	.64	.58
6	134.63	134.58	135.86	136.90	136.53	138.33	135.33	134.93	134.72	134.66	134.61	134.60
7	.85	.60	.58	137.41	.47	139.18	.31	.93	.72	.64	.64	.60
8	.77	.57	.67	.52	.36	.58	.44	.89	.71	.68	.65	.61
9	.76	.56	.50	.28	.11	.85	.48	.87	.71	.73	.63	.62
10	.84	.56	.41	136.92	135.88	140.17	.42	.85	.71	.64	.65	.62
11	135.02	134.56	137.56	136.51	136.04	140.24	135.37	134.85	134.71	134.64	134.63	134.62
12	134.94	.56	138.33	.53	135.99	.09	.39	.84	.69	.63	.63	.59
13	.85	.52	.38	137.48	.78	139.69	.24	.84	.69	.64	.64	.59
14	.78	.55	.28	138.39	.68	.20	.20	.83	.69	.65	.61	.59
15	.73	.59	137.90	139.10	.84	138.43	.17	.80	.71	.64	.60	.59
16	134.66	134.55	137.33	139.42	135.91	137.74	135.11	134.86	134.70	134.65	134.59	134.59
17	.63	.54	.18	.10	.92	.23	.09	.83	.68	.64	.61	.62
18	.63	.52	136.92	138.37	136.22	136.79	.09	.83	.68	.67	.59	.62
19	.60	.54	.91	137.39	.42	.40	.05	.82	.68	.63	.60	.68
20	.72	.55	.86	136.72	.83	.08	.00	.81	.67	.63	.60	135.06
21	134.75	134.72	137.49	136.20	137.13	135.88	134.98	134.80	134.68	134.63	134.59	134.92
22	.71	.85	138.61	135.91	.17	.74	.97	.79	.68	.63	.61	.81
23	.83	.84	139.06	.75	.55	.64	.93	.78	.70	.63	.60	.74
24	.86	.82	.01	.60	.66	.55	.93	.78	.69	.62	.61	.71
25	.90	.78	.85	.49	.60	.48	.92	.76	.66	.60	.62	.68
26	134.82	135.19	140.24	135.49	137.50	135.44	134.92	134.75	134.69	134.60	134.61	134.66
27	.74	136.82	139.66	.56	.31	.38	.91	.74	.67	.60	.61	.66
28	.70	.41	138.53	136.21	.04	.34	.90	.73	.66	.60	.61	.64
29	.62	.48	.02	.58	136.93	.35	.89	.72	.66	.60		.58
30	.64	138.82	.26	.84	.81	.33	.90	.72	.66	.60		.61
31		.18		.90	.75		.91		.66	.62		.61
Mean	134.72	135.07	137.56	137.02	136.61	137.24	135.14	134.83	134.69	134.63	134.62	134.65
Max.	135.02	138.82	140.24	139.42	137.66	140.24	135.48	134.95	134.74	134.73	134.65	135.06
Min.	134.52	134.52	135.41	135.49	135.68	135.33	134.89	134.72	134.66	134.60	134.59	134.58

WATER YEAR 1965 : Max. 140.24 m. Min. 134.52 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.03	0.21	64	69	39	39	5.86	1.73	0.39	0.16	0.04	0.04
2	0.03	0.27	56	56	40	38	5.43	1.80	0.54	0.13	0.13	0.03
3	0.12	0.39	43	47	44	74	5.16	1.57	0.54	0.13	0.10	0.03
4	0.18	0.24	53	47	41	56	4.88	1.55	0.44	0.13	0.10	0.04
5	0.12	0.18	33	48	37	75	4.88	1.47	0.49	0.13	0.16	0.02
6	0.45	0.12	19	46	38	106	6.17	1.98	0.44	0.22	0.07	0.04
7	1.90	0.15	13	70	34	154	5.86	1.98	0.44	0.16	0.16	0.04
8	1.00	0.12	18	78	33	159	7.98	1.55	0.39	0.28	0.19	0.07
9	0.96	0.09	12	58	25	167	8.71	1.39	0.39	0.49	0.13	0.10
10	1.90	0.12	9.80	48	19	177	7.62	1.23	0.39	0.16	0.19	0.10
11	3.80	0.12	84	48	28	179	6.79	1.23	0.39	0.16	0.13	0.10
12	2.70	0.09	114	49	22	166	7.10	1.16	0.31	0.13	0.13	0.03
13	1.90	0.00	105	71	17	143	4.88	1.16	0.31	0.16	0.16	0.03
14	1.16	0.09	98	94	16	121	4.34	1.08	0.31	0.19	0.07	0.03
15	0.80	0.24	85	123	20	89	3.98	0.84	0.39	0.16	0.04	0.03
16	0.45	0.12	66	98	21	66	3.27	1.31	0.34	0.19	0.03	0.03
17	0.39	0.06	58	122	21	50	3.05	1.08	0.28	0.16	0.07	0.10
18	0.36	0.00	48	92	29	36	3.05	1.08	0.28	0.25	0.03	0.10
19	0.24	0.06	48	57	34	26	2.67	1.00	0.28	0.13	0.04	0.25
20	0.68	0.15	46	39	44	18	2.20	0.92	0.25	0.13	0.04	3.66
21	0.92	0.96	71	28	61	16	2.04	0.84	0.28	0.13	0.03	1.87
22	0.68	2.10	111	18	61	12	1.96	0.79	0.28	0.13	0.07	0.92
23	1.24	1.90	126	14	78	10	1.65	0.74	0.34	0.13	0.04	0.54
24	1.80	1.64	115	11	85	8.84	1.65	0.74	0.31	0.10	0.07	0.39
25	2.30	1.16	154	9.32	77	8.04	1.57	0.64	0.22	0.04	0.10	0.28
26	1.56	6.12	166	9.32	74	7.72	1.57	0.59	0.31	0.04	0.07	0.22
27	0.84	48	124	13	64	7.26	1.49	0.54	0.25	0.04	0.07	0.22
28	0.64	37	88	29	53	6.28	1.41	0.49	0.22	0.04	0.07	0.16
29	0.27	40	83	38	52	6.28	1.34	0.44	0.22	0.04		0.02
30	0.36	128	82	45	46	6.00	1.41	0.44	0.22	0.04		0.07
31		100		48	44		1.49		0.22	0.10		0.07
Total	30	370	2,193	1,623	1,297	2,027	121	33	10	4.48	2.53	9.66
Mean	0.99	12	73	52	42	68	3.92	1.11	0.34	0.14	0.09	0.31
Max.	3.80	128	166	123	85	179	8.71	1.98	0.54	0.49	0.19	3.66
Min.	0.03	0.00	9.80	9.32	16	6.00	1.34	0.44	0.22	0.04	0.03	0.02
Runoff - mcm.	2.592	31.968	189.475	140.227	112.061	175.133	10.454	2.851	0.864	0.387	0.219	0.835

WATER YEAR 1965 : Max. 179 Min. 0.00 Mean 21 Annual Runoff 667.066 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 25	24.00	140.31	183	Sept. 11	24.00	140.25	180

WATER YEAR 1965
CHEE RIVER BASIN

Lam Pao at Ban Nong Song Hong, Kalasin (E. 34)

Location: Lat. 16° – 35' – 52" N., Long 103° – 27' – 15" E., on the right bank, 1 kilometer from Lam Pao Damsite, 2.5 kilometers upstream from the confluence with Huai Yang, Amphoe Muang, Kalasin.

Drainage Area: 5,542 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 138.00 m. (M.S.L.)

Bench Mark: BM. – R.I.D. No. 09
- **Location:** On the right bank infront of the office of station E. 34.
- **Elevation:** + 150.216 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: 1962 to date.

Rating Operation:
- Period of Rating: 1963 to date.
- Rated by Float: –
- Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation.

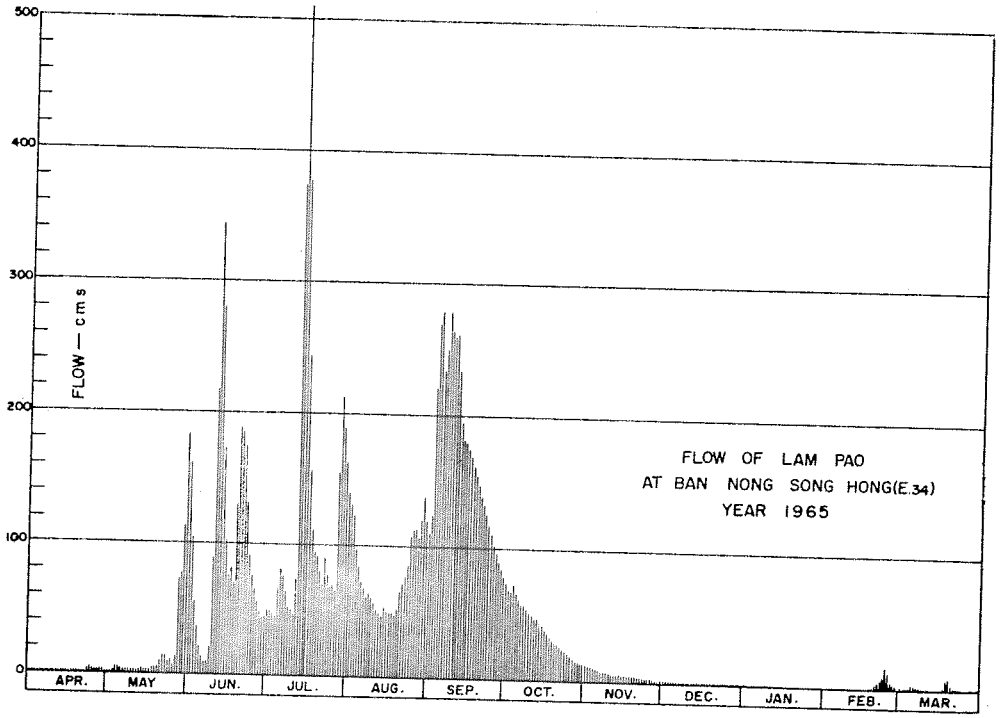
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	139.31	139.39	142.47	140.78	142.17	141.77	141.19	139.85	139.38	139.24	139.16	139.35
2	.33	.37	141.69	.78	.05	.97	.11	.83	.38	.22	.20	.29
3	.33	.41	140.87	.71	141.95	143.20	.07	.81	.37	.21	.18	.26
4	.33	.62	.52	.68	.57	.75	.17	.79	.37	.22	.19	.30
5	.33	.61	.12	141.07	.37	.86	.04	.77	.37	.23	.18	.47
6	139.32	139.52	139.90	141.32	141.18	143.34	140.95	139.75	139.36	139.24	139.17	139.43
7	.33	.47	.80	.24	.10	.52	.90	.71	.35	.23	.16	.35
8	.33	.49	.80	.03	140.97	.86	.90	.68	.35	.23	.18	.29
9	.33	.45	140.14	140.81	141.04	.69	.86	.67	.34	.27	.22	.26
10	.32	.46	141.46	.77	140.96	.65	.86	.65	.34	.26	.24	.23
11	139.31	139.44	143.18	140.71	140.87	143.67	140.75	139.63	139.38	139.23	139.24	139.22
12	.32	.40	144.52	141.22	.80	.34	.70	.62	.36	.24	.22	.19
13	.32	.51	143.87	144.81	.75	142.90	.70	.62	.38	.22	.20	.19
14	.31	.54	142.63	146.08	.71	.75	.64	.61	.38	.22	.19	.19
15	.33	.48	141.66	144.85	.83	.70	.59	.60	.36	.25	.18	.16
16	139.36	139.50	141.23	143.48	140.78	142.64	140.52	139.59	139.39	139.22	139.17	139.17
17	.36	.49	.32	142.40	.76	.56	.48	.58	.36	.20	.19	.32
18	.35	.53	.13	141.78	.76	.47	.42	.55	.34	.18	.23	.71
19	.36	.59	142.06	.53	.71	.38	.36	.53	.31	.17	.37	.72
20	.34	.61	.83	.49	.81	.28	.33	.53	.34	.20	.46	.48
21	139.37	139.77	142.78	141.29	141.08	142.16	140.28	139.51	139.31	139.23	139.54	139.38
22	.36	.93	.66	.14	.17	.07	.24	.51	.30	.22	.64	.32
23	.50	.91	.08	.47	.27	141.98	.19	.48	.28	.19	.75	.29
24	.57	.77	141.50	.27	.41	.86	.15	.46	.36	.18	.99	.28
25	.48	.84	.25	.11	.73	.76	.11	.44	.30	.18	.85	.24
26	139.43	139.66	141.07	141.14	141.81	141.65	140.06	139.42	139.27	139.17	139.56	139.22
27	.43	.92	140.90	.05	.80	.55	.02	.40	.26	.18	.51	.24
28	.45	141.19	.75	142.41	.70	.46	139.97	.39	.31	.18	.41	.25
29	.45	.28	.66	143.12	.90	.36	.92	.38	.30	.17		.24
30	.39	.81	.67	142.83	142.15	.28	.90	.39	.26	.17		.27
31		142.76		.48	141.91		.88		.23	.16		.23
Mean	139.37	139.86	141.55	141.84	141.30	142.58	140.54	139.59	139.33	139.21	139.34	139.31
Max.	139.57	142.76	144.52	146.08	142.17	143.86	141.19	139.85	139.39	139.27	139.99	139.72
Min.	139.31	139.37	139.80	140.68	140.71	141.28	139.88	139.38	139.23	139.16	139.16	139.16

WATER YEAR 1965 : Max. 146.08 m. Min. 139.16 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.10	1.90	161	50	139	110	73	12	1.80	0.40	0.00	1.50
2	1.30	1.70	105	50	130	124	68	11	1.80	0.20	0.00	0.90
3	1.30	2.16	55	47	123	221	66	11	1.70	0.10	0.00	0.60
4	1.30	5.76	37	45	97	269	72	10	1.70	0.20	0.00	1.00
5	1.30	5.53	21	66	84	279	64	9.42	1.70	0.30	0.00	3.12
6	1.20	3.94	13	81	72	233	59	8.90	1.60	0.40	0.00	2.48
7	1.30	3.12	10	76	68	249	56	7.86	1.50	0.30	0.00	1.50
8	1.30	3.44	10	64	60	279	56	7.14	1.50	0.30	0.00	0.90
9	1.30	2.80	21	52	64	264	54	6.91	1.40	0.70	0.20	0.60
10	1.20	2.96	89	50	60	260	51	6.45	1.40	0.60	0.40	0.30
11	1.10	2.64	218	47	55	262	49	5.99	1.80	0.30	0.40	0.20
12	1.20	2.00	344	74	51	233	46	5.76	1.60	0.40	0.20	0.00
13	1.20	3.77	280	373	49	195	46	5.76	1.80	0.20	0.00	0.00
14	1.10	4.28	173	509	47	182	43	5.53	1.80	0.50	0.00	0.00
15	1.30	3.28	103	377	53	179	41	5.30	1.60	0.50	0.00	0.00
16	1.60	3.60	75	245	50	174	37	5.13	1.90	0.20	0.00	0.00
17	1.60	3.44	81	156	49	168	35	4.96	1.60	0.00	0.00	1.20
18	1.50	4.11	69	111	49	161	33	4.45	1.40	0.00	0.30	7.86
19	1.60	5.13	131	94	47	154	30	4.11	1.10	0.00	1.70	8.12
20	1.40	5.53	189	91	52	147	29	4.11	1.40	0.00	2.96	3.28
21	1.70	9.42	185	79	66	138	27	3.77	1.10	0.30	4.28	1.80
22	1.60	14	175	70	72	132	25	3.77	1.00	0.20	6.22	1.20
23	3.60	14	132	90	77	125	23	3.28	0.80	0.00	8.90	0.90
24	4.79	9.42	92	77	86	117	22	2.96	1.60	0.00	16	0.80
25	3.28	11	76	68	108	110	0	2.64	1.00	0.00	12	0.40
26	2.48	6.68	66	70	113	102	19	2.32	0.70	0.00	4.62	0.20
27	2.48	14	56	65	113	95	17	2.00	0.60	0.00	3.77	0.40
28	2.80	73	49	157	106	89	15	1.90	1.10	0.00	2.16	0.50
29	2.80	78	44	213	120	83	14	1.80	1.00	0.00		0.40
30	1.90	113	45	189	138	78	13	1.90	0.60	0.00		0.70
31		183		162	120		13		0.30	0.00		0.30
Total	54	597	3,105	3,898	2,518	5,212	1,218	168	42	6.10	64	41
Mean	1.80	19	103	126	81	174	39	5.60	1.35	0.19	2.28	1.32
Max.	4.79	183	344	509	139	279	73	12	1.80	0.70	16	8.12
Min.	1.10	1.70	10	45	47	78	13	1.80	0.30	0.00	0.00	0.00
Runoff - mcm.	4.666	51.581	268.272	336.787	217.555	450.317	105.235	14.515	3.629	0.527	5.530	3.542

WATER YEAR 1965 : Max. 509 Min. 0.00 Mean 46 Annual Runoff 1,462.147 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 14	03.00	146.43	547	Jun. 12	12.00	144.61	353

WATER YEAR 1965
MAE KHONG RIVER BASIN

Huai Mong at Ban Phue, Udon Thani (Kh. 18)

Location: Lat. 17° - 34' - 39" N., Long 102° - 20' - 19" E., on the right bank about 300 meters downstream from Huai Mong Damsite, and about 500 meters downstream from the confluence of Huai Nam Ban and Huai Pak Kong.

Drainage Area: 1,307 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

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

Bench Mark:
Location: Located at the station office of Kh. 18.
Elevation: + 7.590 m. (A.D.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1957 to date.

Rating Operation:
Period of Rating: 1957 to date.
Rated by Float: -
Rated by Current Meter: 1957 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible in flow computation due to its adequate stability of the channel.

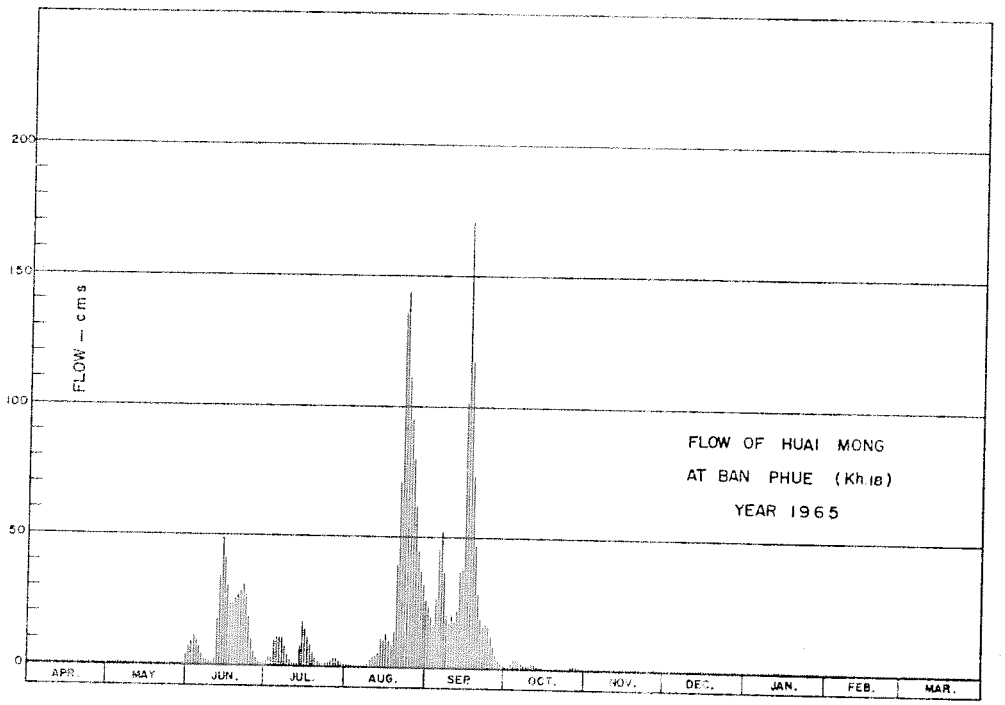
Overbank Flow Conditions: Flow begins to overtop the bank at elevation + 6.65 m. (A.D.). Overbank flow is measured by current meter and is included in flow computation.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.70	0.74	2.74	1.74	1.46	4.74	1.58	1.23	0.86	0.79	0.73	0.73
2	.72	.75	.88	2.04	.37	.24	.56	.23	.85	.78	.76	.73
3	.76	.74	3.32	1.99	.38	.02	.63	.25	.85	.75	.76	.77
4	.74	.74	.14	3.11	.36	.77	2.17	.22	.85	.76	.75	.77
5	.73	.73	2.66	.32	.30	6.30	.25	.17	.84	.77	.76	.77
6	0.74	0.71	2.13	3.26	1.27	6.27	2.06	1.14	0.85	0.79	0.75	0.75
7	.76	.76	1.74	.27	.23	5.60	1.87	.14	.82	.77	.74	.74
8	.83	.79	.60	2.82	.21	4.35	.69	.19	.82	.77	.75	.77
9	.83	.77	.47	.29	.47	.05	.61	.14	.82	.75	.77	.73
10	.80	.77	.43	1.85	.99	.49	.63	.08	.80	.76	.76	.72
11	0.77	0.77	1.96	1.60	2.18	4.13	1.75	1.05	0.81	0.84	0.73	0.72
12	.77	.76	4.24	.47	.35	.73	.69	.01	.81	.81	.73	.79
13	.79	.76	5.68	.46	.52	5.65	.58	.00	.80	.77	.77	.78
14	.76	.75	6.16	2.66	3.25	.74	.53	0.99	.79	.76	.74	.75
15	.74	.72	5.63	3.99	.35	7.32	.42	1.00	.80	.77	.74	.77
16	0.74	0.74	5.14	3.65	3.54	7.65	1.34	0.98	0.78	0.77	0.73	0.75
17	.77	.77	4.69	.25	.20	.32	.31	.95	.77	.77	.74	.74
18	.74	.77	.79	.01	.00	6.70	.28	1.03	.77	.79	.77	.74
19	.78	.75	.93	2.41	.71	5.87	.31	.04	.80	.78	.77	.73
20	.76	.73	5.03	1.98	5.96	4.86	.30	0.97	.77	.76	.75	.73
21	0.77	0.78	5.18	1.71	6.84	3.96	1.28	0.94	0.78	0.77	0.73	0.77
22	.76	.76	.30	.54	7.49	.90	.27	.92	.79	.79	.75	.73
23	.74	.74	4.88	.42	.54	4.01	.25	.90	.76	.78	.80	.74
24	.73	.94	3.96	.47	.30	3.89	.22	.91	.78	.78	.77	.73
25	.78	1.05	2.95	.66	.19	.37	.20	.94	.78	.76	.77	.73
26	0.76	1.04	2.33	1.88	6.96	2.86	1.22	0.92	0.79	0.73	0.76	0.74
27	.74	.00	1.91	2.07	.45	.48	.42	.90	.78	.72	.75	.73
28	.74	0.90	.61	.00	5.92	.04	.45	.88	.79	.72	.76	.72
29	.76	.91	.42	1.83	.59	1.83	.31	.90	.78	.79		.71
30	.74	1.11	.45	.63	.23	1.69	.37	.89	.78	.79		.71
31		.90		.54	4.94		.30		.79	.75		.72
Mean	0.76	0.84	3.41	2.26	3.83	4.62	1.51	1.03	0.80	0.77	0.75	0.74
Max.	0.83	1.90	6.16	3.99	7.54	7.65	2.25	1.25	0.86	0.84	0.80	0.79
Min.	0.70	0.71	1.42	1.42	1.21	1.69	1.20	0.88	0.76	0.72	0.73	0.71

WATER YEAR 1965 : Max. 7.65 m. Min. 0.70 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.04	7.34	2.16	1.18	24	1.54	0.66	0.16	0.09	0.03	0.03
2	0.02	0.05	8.18	3.50	0.94	19	1.48	0.66	0.15	0.08	0.06	0.03
3	0.06	0.04	11	3.25	0.96	17	1.72	0.70	0.15	0.05	0.06	0.07
4	0.04	0.04	9.90	9.67	0.92	24	4.15	0.64	0.15	0.06	0.05	0.07
5	0.03	0.03	6.86	11	0.80	46	4.55	0.54	0.14	0.07	0.06	0.07
6	0.04	0.01	3.95	11	0.74	52	3.60	0.48	0.15	0.09	0.05	0.05
7	0.06	0.06	2.16	11	0.66	36	2.68	0.48	0.12	0.07	0.04	0.04
8	0.13	0.09	1.60	7.82	0.62	20	1.96	0.58	0.12	0.07	0.05	0.07
9	0.13	0.07	1.21	4.75	1.21	17	1.64	0.48	0.12	0.05	0.07	0.03
10	0.10	0.07	1.09	2.60	3.25	21	1.72	0.38	0.10	0.06	0.06	0.02
11	0.07	0.07	3.10	1.60	4.20	18	2.20	0.35	0.11	0.14	0.03	0.02
12	0.07	0.06	19	1.21	5.05	24	1.96	0.31	0.11	0.11	0.03	0.09
13	0.09	0.06	38	1.18	6.02	37	1.54	0.30	0.10	0.07	0.07	0.08
14	0.06	0.05	49	6.86	11	39	1.39	0.29	0.09	0.06	0.04	0.05
15	0.04	0.02	37	17	11	109	1.06	0.30	0.10	0.07	0.04	0.07
16	0.04	0.04	29	14	13	170	0.88	0.28	0.08	0.07	0.03	0.05
17	0.07	0.07	23	11	10	109	0.82	0.25	0.07	0.07	0.04	0.04
18	0.04	0.07	24	8.97	8.90	65	0.76	0.33	0.07	0.09	0.07	0.04
19	0.08	0.05	26	5.36	14	42	0.82	0.34	0.10	0.08	0.07	0.03
20	0.06	0.03	27	3.20	44	25	0.80	0.27	0.07	0.06	0.05	0.03
21	0.07	0.08	29	2.04	71	16	0.76	0.24	0.08	0.07	0.03	0.07
22	0.06	0.06	31	1.42	135	16	0.74	0.22	0.09	0.09	0.05	0.03
23	0.04	0.04	25	1.06	144	17	0.70	0.20	0.06	0.08	0.10	0.04
24	0.03	0.24	16	1.21	106	16	0.64	0.21	0.08	0.08	0.07	0.03
25	0.08	0.35	8.60	1.84	94	12	0.60	0.24	0.08	0.06	0.07	0.03
26	0.06	0.34	4.95	2.72	78	8.06	0.64	0.22	0.09	0.03	0.06	0.04
27	0.04	0.30	2.85	3.65	57	5.78	1.06	0.20	0.08	0.02	0.05	0.03
28	0.04	0.20	1.64	3.30	43	3.50	1.15	0.18	0.09	0.02	0.06	0.02
29	0.06	0.21	1.06	2.52	36	2.52	0.82	0.20	0.08	0.09		0.01
30	0.04	0.42	1.15	1.72	30	1.96	0.94	0.19	0.08	0.09		0.01
31		2.80		1.42	26		0.80		0.09	0.05		0.02
Total	1.75	6.06	450	160	958	1,013	46	11	3.16	2.19	1.49	1.31
Mean	0.06	0.19	15	5.16	30.92	33.76	1.49	0.36	0.10	0.07	0.05	0.04
Max.	0.13	2.80	49	17	144	170	4.55	0.70	0.16	0.14	0.10	0.09
Min.	0.00	0.01	1.06	1.06	0.62	1.96	0.60	0.18	0.06	0.02	0.03	0.01
Runoff - mcm.	0.151	0.524	38.880	13.824	82.771	87.523	3.974	0.950	0.273	0.189	0.129	0.113

WATER YEAR 1965 : Max. 170 Min. 0.00 Mean 7.27 Annual Runoff 229.306 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 15	22.00	7.81	219	Aug. 23	11.00	7.58	152

WATER YEAR 1965
KHONG RIVER BASIN

Nam Oon at Phanna Nikhom, Sakon Nakhon (Kh. 20)

Location: Lat. 17° – 20' – 19" N., Long 103° – 51' – 06" E., on the right bank at the rear of the market, about 350 meters south of the office of Amphoe Phanna Nikhom, Sakon Nakhon.

Drainage Area: 1,199 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 156.27 m. (M.S.L.)

Bench Mark:
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 which is adequate to represent its mean daily value.

Period of Available Gage Records: 1955 to date.

Rating Operation:
Period of Rating: 1956 – 62.
Rated by Float: –
Rated by Current Meter: 1956 – 62.

Stability of Channel Regimes: Stable.

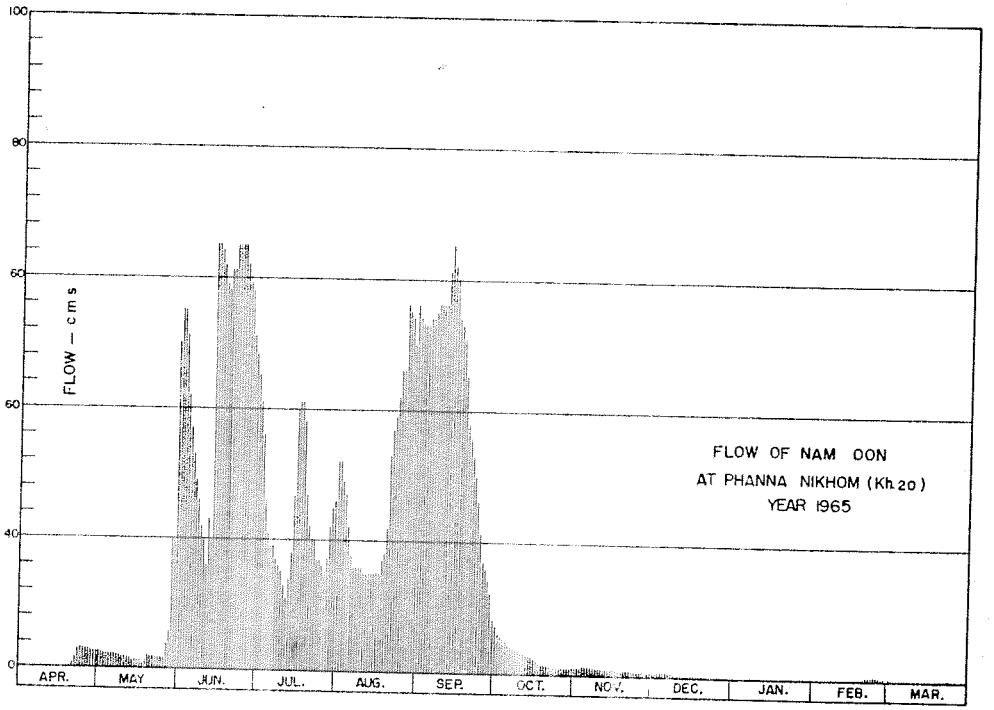
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship is defined by discharge measurements made during 1956 – 62. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	156.44	156.91	160.27	159.92	159.44	160.23	157.66	156.64	156.55	156.40	156.35	156.48
2	.43	.89	.27	.77	.44	.21	.48	.64	.55	.40	.35	.47
3	.43	.88	.14	.59	.31	.21	.44	.66	.54	.40	.36	.47
4	.43	.87	159.83	.16	.19	.21	.36	.68	.54	.39	.38	.46
5	.43	.87	.61	158.88	158.95	.23	.29	.68	.54	.39	.40	.46
6	156.42	156.86	159.48	158.81	158.74	160.25	157.21	156.67	156.53	156.39	156.41	156.46
7	.42	.85	.29	.78	.61	.28	.15	.66	.53	.39	.42	.46
8	.42	.84	.16	.69	.58	.29	.12	.65	.51	.38	.42	.46
9	.44	.82	158.98	.62	.56	.29	.10	.64	.49	.38	.43	.45
10	.45	.81	.79	.49	.55	.29	.08	.63	.48	.38	.43	.44
11	156.46	156.80	158.61	158.36	158.54	160.29	157.05	156.62	156.47	156.38	156.44	156.43
12	.47	.78	159.02	.18	.53	.47	.01	.61	.46	.37	.45	.42
13	.47	.75	158.83	.42	.52	.57	156.98	.60	.46	.37	.45	.42
14	.46	.72	160.57	.74	.51	.48	.95	.59	.46	.37	.45	.42
15	.45	.70	.59	159.23	.50	.44	.93	.59	.45	.37	.46	.41
16	156.44	156.69	160.54	159.74	158.49	160.25	156.88	156.63	156.45	156.37	156.47	156.41
17	.44	.67	.49	.77	.48	.19	.84	.58	.45	.37	.47	.41
18	.43	.59	.40	.77	.64	.14	.78	.58	.45	.36	.48	.42
19	.43	.76	.38	.65	.73	159.92	.71	.58	.44	.36	.48	.43
20	.49	.83	.47	.23	.97	.68	.70	.58	.44	.36	.49	.43
21	156.57	156.81	160.47	158.98	159.48	159.59	156.69	156.58	156.43	156.36	156.50	156.44
22	.77	.79	.58	.83	.63	.45	.68	.58	.43	.36	.51	.45
23	.97	.79	.58	.78	.69	.34	.65	.57	.43	.36	.51	.46
24	.99	.76	.57	.66	.81	.14	.65	.57	.43	.36	.52	.45
25	.98	.75	.57	.63	.95	158.92	.64	.57	.42	.35	.52	.44
26	156.97	156.74	160.49	158.58	159.95	158.69	156.64	156.56	156.42	156.35	156.50	156.43
27	.96	157.11	.42	.47	160.31	.58	.63	.56	.42	.35	.49	.42
28	.95	.42	.36	.63	.26	.45	.63	.56	.42	.35	.48	.42
29	.94	158.87	.13	.98	.25	.23	.63	.56	.41	.35		.41
30	.93	.85	.04	159.13	.11	157.78	.62	.56	.41	.35		.41
31		160.09		.18	.29		.62		.41	.35		.41
Mean	156.60	157.06	160.00	158.99	159.17	159.77	156.92	156.61	156.46	156.37	156.45	156.44
Max.	156.99	160.09	160.59	159.92	160.31	160.57	157.66	156.68	156.55	156.40	156.52	156.48
Min.	156.42	156.59	158.61	158.18	158.46	157.78	156.62	156.56	156.41	156.35	156.35	156.41

WATER YEAR 1965 : Max. 160.59 m. Min. 156.35 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	2.56	55	45	32	54	7.22	1.10	0.65	0.00	0.00	0.32
2	0.12	2.44	55	41	32	53	5.98	1.10	0.65	0.00	0.00	0.28
3	0.12	2.38	51	36	29	53	5.74	1.20	0.60	0.00	0.00	0.28
4	0.12	2.32	42	26	27	53	5.26	1.30	0.60	0.00	0.00	0.24
5	0.12	2.32	37	21	22	54	4.84	1.30	0.60	0.00	0.00	0.24
6	0.08	2.26	33	19	18	54	4.36	1.25	0.55	0.00	0.04	0.24
7	0.08	2.20	29	19	16	55	4.00	1.20	0.55	0.00	0.08	0.24
8	0.08	2.14	26	17	16	56	3.82	1.15	0.45	0.00	0.08	0.24
9	0.16	2.02	22	16	16	56	3.70	1.10	0.36	0.00	0.12	0.20
10	0.20	1.96	20	15	16	56	3.58	1.05	0.32	0.00	0.12	0.16
11	0.24	1.90	16	13	15	56	3.40	1.00	0.28	0.00	0.16	0.12
12	0.28	1.80	23	11	15	61	3.16	0.95	0.24	0.00	0.20	0.08
13	0.28	1.65	20	14	15	65	2.98	0.90	0.24	0.00	0.20	0.08
14	0.24	1.50	65	18	15	62	2.80	0.85	0.24	0.00	0.20	0.08
15	0.20	1.40	65	27	15	60	2.63	0.85	0.20	0.00	0.24	0.04
16	0.16	1.35	64	40	15	54	2.38	1.05	0.20	0.00	0.28	0.04
17	0.16	1.25	62	41	15	53	2.14	0.80	0.20	0.00	0.28	0.04
18	0.12	0.85	59	41	17	51	1.80	0.80	0.20	0.00	0.32	0.08
19	0.12	1.76	58	38	18	45	1.45	0.80	0.16	0.00	0.32	0.12
20	0.36	2.08	61	27	22	38	1.40	0.80	0.16	0.00	0.36	0.12
21	0.75	1.96	61	22	33	36	1.35	0.80	0.12	0.00	0.40	0.16
22	1.75	1.85	65	20	37	33	1.30	0.80	0.12	0.00	0.45	0.20
23	2.92	1.85	65	19	39	30	1.15	0.75	0.12	0.00	0.45	0.24
24	3.04	1.70	65	17	42	26	1.15	0.75	0.12	0.00	0.50	0.20
25	2.98	1.65	65	17	46	21	1.10	0.75	0.08	0.00	0.50	0.16
26	2.92	1.60	62	16	46	17	1.10	0.70	0.08	0.00	0.40	0.12
27	2.86	3.76	59	15	56	16	1.05	0.70	0.08	0.00	0.36	0.08
28	2.80	5.62	58	17	55	14	1.05	0.70	0.08	0.00	0.32	0.08
29	2.74	20	51	22	54	12	1.05	0.70	0.04	0.00		0.04
30	2.68	20	48	25	50	8.06	1.00	0.70	0.04	0.00		0.04
31		50		26	56		1.00		0.04	0.00		0.04
Total	29	148	1,462	741	900	1,281	85	28	8.37	0.00	6.38	4.40
Mean	0.96	4.78	49	24	29	43	2.74	0.93	0.27	0.00	0.23	0.14
Max.	3.04	50	65	45	56	65	7.22	1.30	0.65	0.00	0.50	0.32
Min.	0.08	0.85	16	11	15	8.06	1.00	0.70	0.04	0.00	0.00	0.04
Runoff - mcm.	2.506	12.787	126.317	64.022	77.760	110.678	7.344	2.419	0.723	0.000	0.551	0.380

WATER YEAR 1965 : Max. 65 Min. 0.00 Mean 13 Annual Runoff 405.475 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 22	12.00	160.53	65				

WATER YEAR 1965
MAE KHONG RIVER BASIN

Nam Oon River at Ban Nong Bua, Sakon Nakhon (Kh. 208)

Location: Lat. 17° - 18' - 08" N., Long 103° - 45' - 27" E., on the left bank, about 1 kilometer north - east of Ban Nong Bua, and about 500 meters upstream from Nam Oon Damsite, Amphoe Phannanikhom, Sakon Nakhon.

Drainage Area: 1,117 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: + 160.00 m. (M.S.L.)

Bench Mark:
- Location: BM. - R.I.D. 4, Located at a distance of 20 meters from right bank at the damsite,
- Elevation: + 169.900 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1962 to date.

Rating Operation:
- Period of Rating: 1962 to date.
- Rated by Float: -
- Rated by Current Meter: 1962 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible in flow computation due to its adequate stability of the channel.

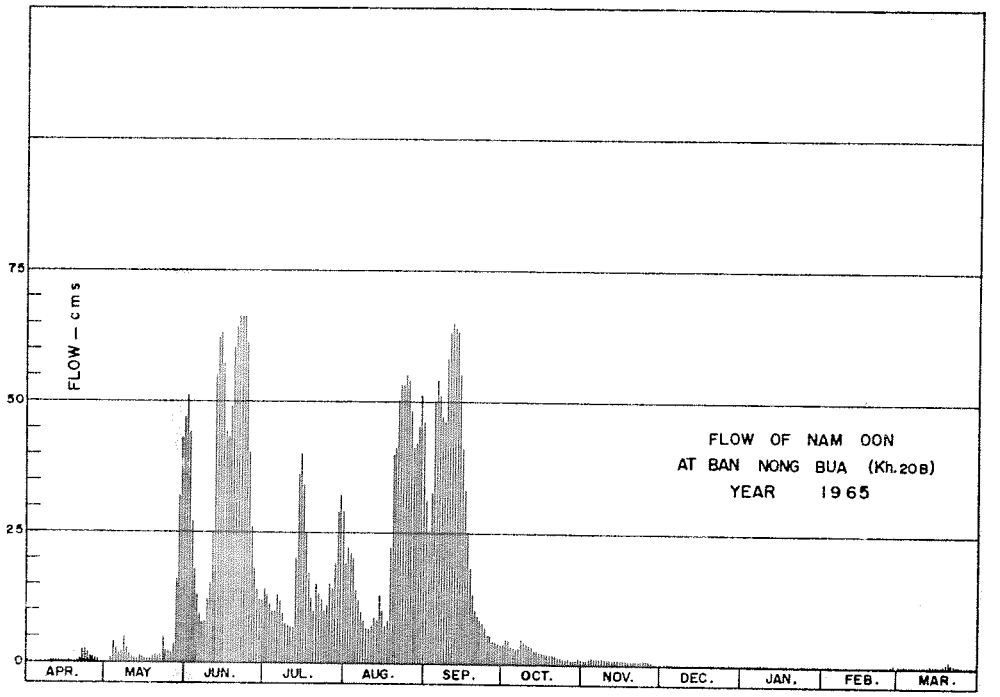
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	161.82	161.94	165.89	163.72	164.02	164.80	162.67	162.15	162.01	161.94	161.90	161.98
2	.85	.92	.52	.61	.25	.44	.77	.15	161.98	.93	.97	.94
3	.84	162.21	164.60	.42	.17	165.06	.70	.17	162.00	.89	.90	.95
4	.79	.70	163.99	.33	.12	.86	.61	.23	161.99	.91	.87	.97
5	.80	.53	.58	.36	163.70	166.06	.57	.21	162.00	.91	.88	.95
6	161.80	162.35	163.28	163.62	163.50	165.92	162.55	162.21	161.97	161.95	161.83	161.93
7	.81	.42	.10	.49	.35	.72	.60	.19	.95	.92	.92	.98
8	.81	.82	.12	.27	.18	.64	.78	.22	.96	.94	.88	.98
9	.90	.50	.52	.09	.01	166.22	.74	.22	.95	.93	.86	.95
10	.92	.33	.73	.05	.00	.46	.68	.17	.94	.92	.87	.92
11	161.90	162.20	164.42	163.05	163.06	166.55	162.62	162.18	161.96	161.92	161.89	161.91
12	.88	.11	166.09	.04	.21	.53	.59	.13	.93	.93	.90	.92
13	162.03	.07	.44	164.09	.18	.46	.51	.15	.94	.92	.88	162.03
14	161.99	.26	.47	165.10	.58	.08	.49	.13	.93	.91	.84	161.97
15	.94	.20	.19	.33	.37	165.39	.44	.13	.89	.90	.93	.94
16	161.92	162.11	165.54	164.98	163.07	164.93	162.40	162.13	161.92	161.91	161.93	161.91
17	.96	.10	.49	.42	.16	.47	.41	.14	.94	.91	.91	.92
18	.92	.06	.79	163.89	164.23	163.98	.39	.09	.94	.93	.88	.97
19	.94	.29	166.34	.51	165.33	.61	.35	.07	.96	.91	.88	162.08
20	162.00	.26	.53	.32	.37	.37	.36	.06	.96	.94	.89	.21
21	162.05	162.25	166.58	163.59	165.86	163.23	162.33	162.04	161.97	161.90	161.90	162.08
22	.48	.29	.62	.54	166.02	.17	.27	.07	.93	.92	.91	.01
23	.48	.82	.61	.37	.00	.13	.24	.06	.96	.91	.94	161.96
24	.40	.47	.38	.27	.09	.02	.22	.07	.96	.91	.95	.93
25	.28	.40	165.33	.35	.03	162.88	.16	.06	.94	.89	.94	.91
26	162.21	162.31	164.48	163.66	165.74	162.84	162.22	162.04	161.90	161.89	161.93	161.90
27	.14	.63	.00	.62	.39	.76	.17	.02	.95	.89	.97	.88
28	.06	163.69	163.66	.78	.45	.74	.15	161.96	.96	.91	162.04	.85
29	.00	164.85	.48	164.42	.61	.69	.13	162.01	.92	.89		.84
30	161.97	165.47	.54	.82	.91	.64	.20	.01	.92	.90		.86
31		.72		.48	.64		.17		.91	.90		.81
Mean	161.96	162.65	165.01	163.76	164.44	164.55	162.44	162.12	161.95	161.91	161.91	161.95
Max.	162.48	165.72	166.62	165.33	166.09	166.55	162.78	162.23	162.01	161.95	162.04	162.21
Min.	161.79	161.92	163.10	163.04	163.00	162.64	162.13	161.96	161.89	161.89	161.83	161.81

WATER YEAR 1965 : Max. 166.62 m. Min. 161.79 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.45	0.25	51	14	19	31	3.78	0.91	0.43	0.25	0.15	0.35
2	0.08	0.20	44	13	22	25	4.56	0.91	0.35	0.22	0.32	0.25
3	0.07	1.14	27	11	21	35	4.00	0.99	0.40	0.14	0.15	0.27
4	0.02	4.00	18	9.90	20	50	3.34	1.23	0.37	0.17	0.11	0.32
5	0.02	2.81	13	10	14	54	3.07	1.14	0.40	0.17	0.12	0.27
6	0.02	1.79	9.39	13	12	51	2.94	1.14	0.32	0.27	0.06	0.22
7	0.03	2.16	7.52	12	10	47	3.27	1.06	0.27	0.20	0.20	0.35
8	0.03	4.97	7.72	9.28	8.33	46	4.64	1.19	0.30	0.25	0.12	0.35
9	0.15	2.62	12	7.42	6.66	58	4.32	1.19	0.27	0.22	0.10	0.27
10	0.20	1.69	15	7.04	6.56	63	3.85	0.99	0.25	0.20	0.11	0.20
11	0.15	1.10	25	7.04	7.14	65	3.42	1.02	0.30	0.20	0.14	0.17
12	0.12	0.76	55	6.94	8.64	64	3.20	0.83	0.22	0.22	0.15	0.20
13	0.50	0.62	62	20	8.33	63	2.68	0.91	0.25	0.20	0.12	0.50
14	0.37	1.36	63	36	13	55	2.56	0.83	0.22	0.17	0.07	0.32
15	0.25	1.10	57	40	10	41	2.27	0.83	0.14	0.15	0.22	0.25
16	0.20	0.76	44	34	7.23	33	2.04	0.83	0.20	0.17	0.22	0.17
17	0.30	0.72	43	25	8.13	25	2.10	0.87	0.25	0.17	0.17	0.20
18	0.20	0.59	49	17	22	18	1.95	0.69	0.25	0.22	0.12	0.32
19	0.25	1.20	60	12	40	13	1.79	0.62	0.30	0.17	0.12	0.66
20	0.40	1.36	64	9.80	41	10	1.84	0.59	0.30	0.25	0.14	1.14
21	0.56	1.32	66	15	50	8.85	1.69	0.53	0.32	0.15	0.15	0.66
22	2.50	1.50	66	13	53	8.23	1.41	0.62	0.22	0.20	0.17	0.43
23	2.50	4.97	66	12	53	7.82	1.28	0.59	0.30	0.17	0.25	0.30
24	2.04	2.45	61	9.60	55	6.75	1.19	0.62	0.30	0.17	0.27	0.20
25	1.45	2.04	40	11	54	5.49	0.95	0.59	0.25	0.14	0.25	0.17
26	1.14	1.59	26	15	48	5.14	1.19	0.53	0.15	0.14	0.22	0.15
27	0.87	3.49	18	14	41	4.48	0.99	0.46	0.27	0.14	0.32	0.12
28	0.59	14	14	19	42	4.32	0.91	0.30	0.30	0.17	0.53	0.08
29	0.40	32	12	29	45	3.93	0.83	0.43	0.20	0.14		0.07
30	0.32	43	12	32	51	3.56	1.10	0.43	0.20	0.15		0.10
31		47		29	46		0.99		0.17	0.15		0.03
Total	16	184	1,108	513	843	905	74	24	8.47	5.73	5.07	9.09
Mean	0.54	5.95	37	16	27	30	2.39	0.80	0.27	0.18	0.18	0.29
Max.	2.50	47	66	40	55	65	4.64	1.23	0.43	0.27	0.53	1.14
Min.	0.02	0.20	7.52	6.94	7.14	3.56	0.83	0.30	0.14	0.14	0.06	0.03
Runoff - mcm.	1.382	15.898	95.731	44.323	72.835	78.192	6.393	2.073	0.732	0.495	0.438	0.785

WATER YEAR 1965 : Max. 66 Min. 0.02 Mean 10 Annual Runoff 319.248 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jun. 22	24.00	166.63	67	Sept. 11	18.00	166.25	65

WATER YEAR 1965
MAE KHONG RIVER BASIN

Nam Phung at Ban Chan Phen, Sakon Nakhon (KH. 21A)

Location: Lat. 16° - 58' - 22" N., Long 104° - 100' - 03" E., on the left bank about 6 kilometers downstream from Nam Phung Damsite, 500 meters upstream from the confluence with Huai Huat, and 800 meters upstream from Ban Chan Phen, Amphoe Mung, Sakon Nakhon.

Drainage Area: 577 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water - stage recorder.

Zero Gage at Bottom at: + 172.00 m. (M.S.L.)

Bench Mark:
- Location: Located at about 175 meters from right bank of the river along the gage line.
- Elevation: + 177.843 m. (M.S.L.)

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1961 to date.

Rating Operation:
- Period of Rating: 1961 to date.
- Rated by Float: -
- Rated by Current Meter: 1961 to date.

Stability of Channel Regimes: Stable, shifting adjustment is negligible in flow computation due to its adequate stability of the channel.

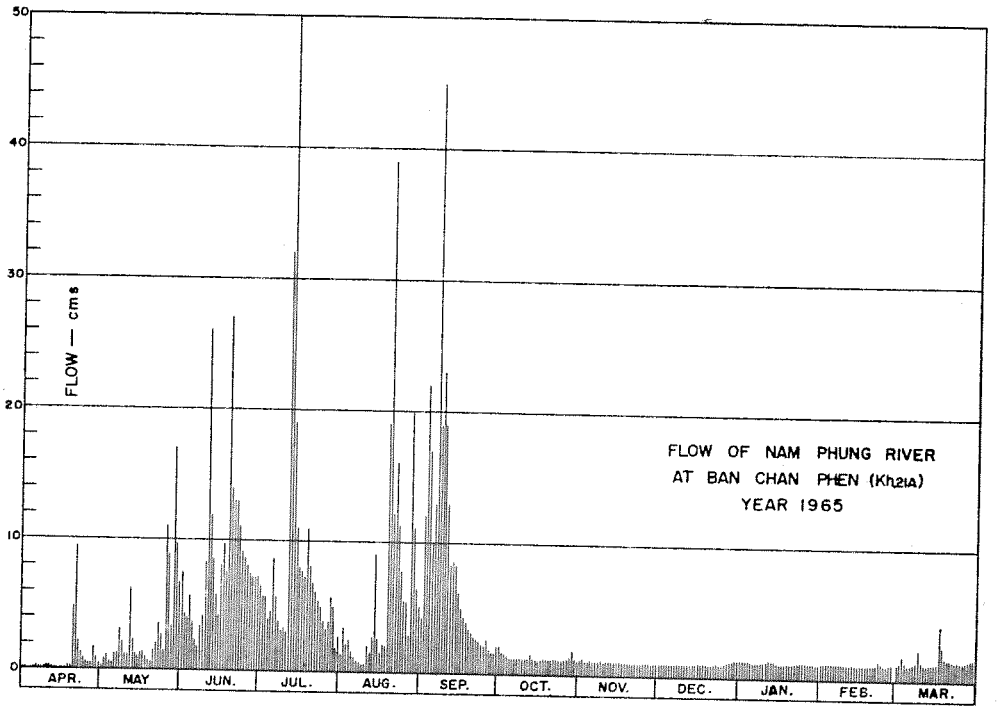
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversion is made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	172.79	172.84	173.31	173.27	172.98	173.16	173.03	172.96	172.94	172.97	172.96	172.96
2	.78	.92	.17	.24	173.12	.47	.01	.97	.94	.97	.96	.97
3	.77	.95	.15	.24	.04	.72	.00	.95	.94	.97	.96	173.02
4	.77	.90	.24	.15	.06	.62	172.98	.95	.94	.97	.96	172.98
5	.78	.88	.13	.18	.01	.40	.96	.96	.95	.97	.97	.96
6	172.81	172.96	173.05	173.35	172.96	173.50	172.96	172.95	172.96	172.96	172.96	172.96
7	.80	.97	.02	.24	.93	174.12	.96	.95	.94	.96	.96	.96
8	.79	173.11	.12	.14	.92	173.66	.96	.95	.94	.96	.96	.97
9	.80	.04	.15	.11	.90	.76	.97	.95	.94	.96	.96	173.04
10	.83	172.96	.34	.12	.90	.65	.95	.95	.94	.96	.96	172.98
11	172.81	172.96	173.82	173.10	173.02	173.50	172.96	172.95	172.94	172.97	172.95	172.96
12	.80	173.26	.47	.93	172.98	.34	.97	.95	.95	.97	.95	.95
13	.79	.04	.35	174.19	173.08	.35	173.00	.95	.96	.97	.95	.95
14	.78	172.96	.24	173.65	.37	.34	172.96	.95	.94	.97	.95	.96
15	.78	.94	.16	.43	.06	.25	.96	.94	.94	.96	.94	.96
16	172.77	172.97	173.33	173.33	172.99	173.20	172.95	172.95	172.95	172.95	172.95	172.97
17	.79	.98	.39	.32	173.03	.17	.95	.95	.95	.95	.95	173.16
18	.79	.94	.31	.30	.02	.14	.96	.95	.95	.95	.95	.07
19	.82	.91	.84	.44	.65	.12	.96	.94	.94	.95	.95	.01
20	173.19	.90	.52	.33	174.04	.11	.96	.95	.94	.96	.95	.00
21	173.38	172.99	173.50	173.27	173.47	173.09	172.96	172.94	172.94	172.95	172.95	173.00
22	.06	173.03	.51	.25	.59	.08	.96	.95	.94	.96	.96	.00
23	172.98	.13	.42	.22	.49	.07	.96	.95	.95	.96	.99	172.99
24	.93	.08	.37	.20	.32	.05	.96	.94	.94	.97	.97	.99
25	.90	172.98	.35	.14	.22	.04	.95	.94	.94	.96	.96	.98
26	172.89	173.42	173.33	173.11	173.22	173.08	172.96	172.94	172.95	172.96	172.95	172.98
27	.89	.34	.31	.14	.14	.02	.96	.94	.95	.95	.96	.98
28	173.01	.12	.30	.23	.68	.01	.99	.94	.95	.96	.96	.99
29	172.92	.62	.30	.14	.42	.00	173.02	.94	.97	.96		173.00
30	.87	.39	.30	.02	.27	.03	172.98	.94	.97	.95		.00
31		.28		.08	.20		.97		.96	.95		.00
Mean	172.87	173.06	173.33	173.29	173.20	173.30	172.97	172.95	172.95	172.96	172.96	172.99
Max.	173.38	173.62	173.84	174.19	174.04	174.12	173.03	172.97	172.97	172.97	172.99	173.16
Min.	172.77	172.84	173.02	173.02	172.90	173.00	172.95	172.94	172.94	172.95	172.94	172.95

WATER YEAR 1965 : Max. 174.19 m. Min. 172.77 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.16	0.36	7.48	6.54	1.40	4.20	2.02	1.20	1.00	1.30	1.20	1.20
2	0.12	0.80	4.40	5.88	3.40	12	1.74	1.30	1.00	1.30	1.20	1.30
3	0.08	1.10	4.00	5.88	2.16	22	1.60	1.10	1.00	1.30	1.20	1.88
4	0.08	0.60	5.88	4.00	2.44	17	1.40	1.10	1.00	1.30	1.20	1.40
5	0.12	0.52	3.60	4.60	1.74	10	1.20	1.20	1.10	1.30	1.30	1.20
6	0.24	1.20	2.30	8.60	1.20	13	1.20	1.10	1.20	1.20	1.20	1.20
7	0.20	1.30	1.88	5.88	0.90	45	1.20	1.10	1.00	1.20	1.20	1.20
8	0.16	3.20	3.40	3.80	0.80	19	1.20	1.10	1.00	1.20	1.20	1.30
9	0.20	2.16	4.00	3.20	0.60	23	1.30	1.10	1.00	1.20	1.20	2.16
10	0.32	1.20	8.32	3.40	0.60	19	1.10	1.10	1.00	1.20	1.20	1.40
11	0.24	1.20	26	3.00	1.88	13	1.20	1.10	1.00	1.30	1.10	1.20
12	0.20	6.32	12	32	1.40	8.32	1.30	1.10	1.10	1.30	1.10	1.10
13	0.16	2.16	8.60	50	2.72	8.60	1.60	1.10	1.20	1.30	1.10	1.10
14	0.12	1.20	5.88	19	9.16	8.32	1.20	1.10	1.00	1.30	1.10	1.20
15	0.12	1.00	4.20	11	2.44	6.10	1.20	1.00	1.00	1.20	1.00	1.20
16	0.08	1.30	8.04	8.04	1.50	5.00	1.10	1.10	1.10	1.10	1.10	1.30
17	0.16	1.40	9.72	7.76	2.02	4.40	1.10	1.10	1.10	1.10	1.10	4.20
18	0.16	1.00	7.48	7.20	1.88	3.80	1.20	1.10	1.10	1.10	1.10	2.58
19	0.28	0.70	27	11	19	3.40	1.20	1.00	1.00	1.10	1.10	1.74
20	4.80	0.60	14	8.04	39	3.20	1.20	1.10	1.00	1.20	1.10	1.60
21	9.44	1.50	13	6.54	12	2.86	1.20	1.00	1.00	1.10	1.10	1.60
22	2.44	2.02	13	6.10	16	2.72	1.20	1.10	1.00	1.20	1.20	1.60
23	1.40	3.60	11	5.44	13	2.58	1.20	1.10	1.10	1.20	1.50	1.50
24	0.90	2.72	9.16	5.00	7.76	2.30	1.20	1.00	1.00	1.30	1.30	1.50
25	0.60	1.40	8.60	3.80	5.44	2.16	1.10	1.00	1.00	1.20	1.20	1.40
26	0.56	11	8.04	3.20	5.44	2.72	1.20	1.00	1.10	1.20	1.10	1.40
27	0.56	8.32	7.48	3.80	3.80	1.88	1.20	1.00	1.10	1.10	1.20	1.40
28	1.74	3.40	7.20	5.66	20	1.74	1.50	1.00	1.10	1.20	1.20	1.50
29	0.80	17	7.20	3.80	11	1.60	1.88	1.00	1.30	1.20		1.60
30	0.48	9.72	7.20	1.88	6.54	2.02	1.40	1.00	1.30	1.10		1.60
31		6.76		2.72	5.00		1.30		1.20	1.10		1.60
Total	27	97	260	257	202	271	41	32	33	37	33	48
Mean	0.90	3.12	8.67	8.28	6.52	9.03	1.31	1.08	1.07	1.21	1.17	1.55
Max.	9.44	17	27	50	39	45	2.02	1.30	1.30	1.30	1.50	4.20
Min.	0.08	0.36	1.88	1.88	0.60	1.60	1.10	1.00	1.00	1.10	1.00	1.10
Runoff - MCM.	2.332	8.381	22.464	22.205	17.453	23.414	3.542	2.765	2.851	3.197	2.851	4.147

WATER YEAR 1965 : Max. 50 Min. 0.08 Mean 3.66 Annual Runoff 115.603 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul 12	09.00	175.00	125	Sept. 7	10.00	174.50	78

WATER YEAR 1965
MAE KHONG RIVER BASIN

Huai Huat at Ban Bung Sa, Sakon Nakhon (Kh. 40)

Location: Lat 16° - 58' - 25" N., Long 104° - 10' - 16" E., on the right bank south of Ban Chan Phen, 200 meters upstream from the confluence with Nam Phung, Amphoe Muang, Sakon Nakhon.

Drainage Area: 60 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
Location: BM. - H.S./R.I.D. No. 1, located on the right bank of Nam Phung, left bank of Huai Huat.
Elevation: + 177.843 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings it might or might not represent the true mean daily value, particularly during floods.

Period of Available Gage Records: 1962 to date.

Rating Operation:
Period of Rating: 1962 to date.
Rated by Float: -
Rated by Current Meter: 1962 to date.

Stability of Channel Regimes: Stable, periodic rating curves are used in flow computation, taking into account back water.

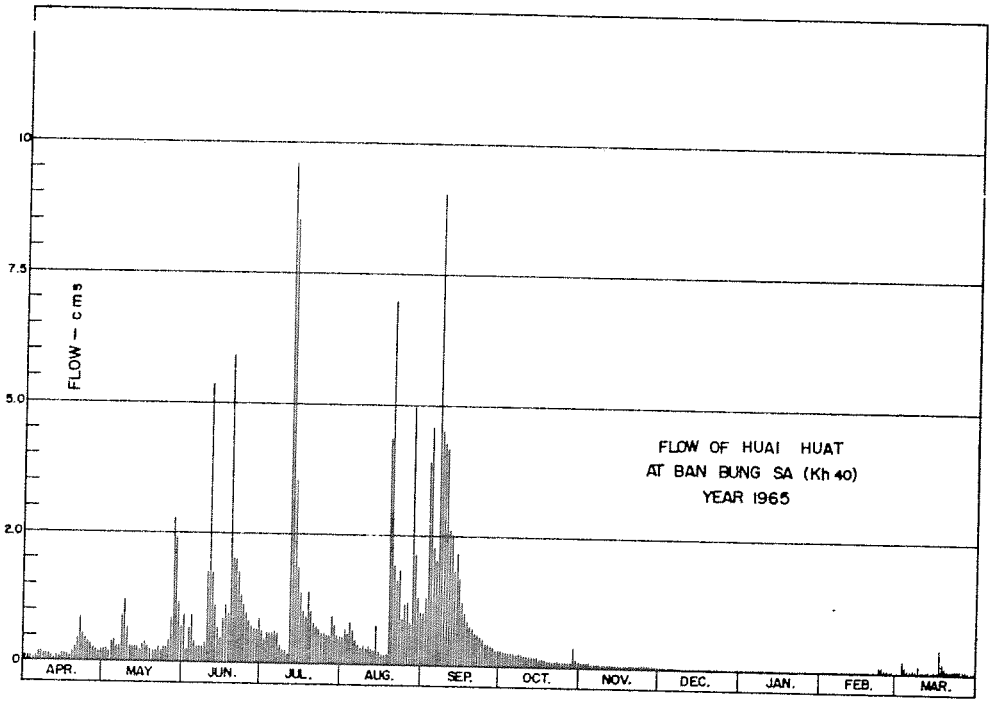
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as poor during floods. Stage-discharge relations are subject to backwater from Nam Phung causing substantial deviations from mean rating curve. No diversion is made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.61	0.66	0.83	0.77	0.74	0.85	0.68	0.61	0.58	0.57	0.57	0.58
2	.61	.66	.66	.73	.78	.91	.67	.61	.58	.57	.56	.57
3	.61	.65	.78	.76	.76	1.28	.67	.61	.58	.57	.57	.66
4	.60	.71	.83	.76	.81	.36	.67	.61	.58	.57	.57	.62
5	.61	.72	.71	.76	.78	.06	.67	.60	.58	.57	.57	.60
6	0.64	0.69	0.68	0.77	0.73	1.02	0.67	0.60	0.58	0.57	0.57	0.60
7	.64	.69	.68	.76	.71	.77	.66	.60	.58	.57	.58	.60
8	.63	.83	.69	.70	.69	.35	.67	.60	.57	.57	.57	.60
9	.63	.89	.71	.67	.70	.32	.66	.60	.57	.57	.57	.63
10	.63	.79	.98	.67	.69	.31	.65	.59	.57	.58	.57	.59
11	0.62	0.69	1.45	0.65	0.70	1.11	0.65	0.59	0.57	0.57	0.57	0.58
12	.60	.68	0.98	1.79	.68	.03	.65	.59	.57	.57	.57	.58
13	.62	.69	.87	.76	.67	0.99	.64	.59	.57	.57	.56	.58
14	.62	.68	.78	.23	.80	1.04	.64	.59	.57	.57	.56	.58
15	.63	.66	.73	.00	.67	0.97	.64	.59	.57	.57	.56	.58
16	0.63	0.70	0.82	0.92	0.65	0.89	0.63	0.59	0.57	0.56	0.56	0.58
17	.63	.71	.87	.86	.65	.85	.63	.59	.57	.57	.56	.73
18	.62	.68	.83	.83	.65	.82	.63	.59	.57	.57	.56	.64
19	.65	.67	1.51	.92	1.28	.80	.62	.59	.57	.57	.56	.62
20	.68	.65	.03	.86	.61	.79	.62	.59	.58	.56	.56	.60
21	0.72	0.66	1.02	0.80	1.01	0.77	0.62	0.59	0.57	0.56	0.56	0.60
22	.82	.68	0.98	.79	0.96	.76	.62	.59	.57	.56	.58	.60
23	.75	.66	.91	.78	.99	.75	.62	.59	.58	.57	.61	.60
24	.73	.68	.87	.76	.83	.74	.61	.59	.57	.55	.61	.60
25	.71	.68	.84	.76	.88	.72	.61	.59	.57	.57	.59	.60
26	0.70	0.72	0.81	0.75	0.89	0.72	0.61	0.59	0.57	0.56	0.59	0.59
27	.67	.82	.79	.75	.81	.71	.61	.59	.57	.56	.58	.59
28	.66	1.13	.78	.83	1.41	.70	.62	.59	.57	.56	.58	.57
29	.65	1.08	.78	.80	.04	.69	.71	.58	.57	.56		.57
30	.66	0.88	.82	.75	0.91	.69	.63	.58	.57	.57		.57
31		.79		.74	.86		.62		.57	.56		.58
Mean	0.65	0.74	0.87	0.86	0.85	0.96	0.64	0.59	0.57	0.56	0.57	0.60
Max.	0.82	1.13	1.51	1.79	1.61	1.77	0.71	0.61	0.58	0.58	0.61	0.73
Min.	0.60	0.65	0.66	0.65	0.65	0.69	0.61	0.58	0.57	0.55	0.56	0.57

WATER YEAR 1965 : Max. 1.79 m. Min. 0.55 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.12	0.25	0.91	0.64	0.52	1.01	0.31	0.12	0.05	0.04	0.04	0.05
2	0.12	0.25	0.25	0.48	0.68	1.32	0.28	0.12	0.05	0.04	0.02	0.04
3	0.12	0.22	0.68	0.60	0.60	3.94	0.28	0.12	0.05	0.04	0.04	0.25
4	0.09	0.40	0.91	0.60	0.81	4.58	0.28	0.12	0.05	0.04	0.04	0.14
5	0.12	0.44	0.40	0.60	0.68	2.28	0.28	0.09	0.05	0.04	0.04	0.09
6	0.20	0.33	0.31	0.64	0.48	2.01	0.28	0.09	0.05	0.04	0.04	0.09
7	0.20	0.33	0.31	0.60	0.40	9.08	0.25	0.09	0.05	0.04	0.05	0.09
8	0.17	0.91	0.33	0.36	0.33	4.50	0.28	0.09	0.04	0.04	0.04	0.09
9	0.17	1.21	0.40	0.28	0.36	4.26	0.25	0.09	0.04	0.04	0.04	0.17
10	0.17	0.72	1.75	0.28	0.33	4.18	0.22	0.07	0.04	0.05	0.04	0.07
11	0.14	0.33	5.35	0.22	0.36	2.63	0.22	0.07	0.04	0.04	0.04	0.05
12	0.09	0.31	1.75	9.60	0.31	2.08	0.22	0.07	0.04	0.04	0.04	0.05
13	0.14	0.33	1.11	8.51	0.28	1.81	0.20	0.07	0.04	0.04	0.02	0.05
14	0.14	0.31	0.68	3.54	0.76	2.15	0.20	0.07	0.04	0.04	0.02	0.05
15	0.17	0.25	0.48	1.87	0.28	1.69	0.20	0.07	0.04	0.04	0.02	0.05
16	0.17	0.36	0.86	1.38	0.22	1.21	0.17	0.07	0.04	0.02	0.02	0.05
17	0.17	0.40	1.11	1.06	0.22	1.01	0.17	0.07	0.04	0.04	0.02	0.48
18	0.14	0.31	0.91	0.91	0.22	0.86	0.17	0.07	0.04	0.04	0.02	0.20
19	0.22	0.28	5.90	1.38	4.35	0.76	0.14	0.07	0.04	0.04	0.02	0.14
20	0.31	0.22	2.08	1.06	6.96	0.72	0.14	0.07	0.05	0.02	0.02	0.09
21	0.44	0.25	2.01	0.76	1.94	0.64	0.14	0.07	0.04	0.02	0.02	0.09
22	0.86	0.31	1.75	0.72	1.63	0.60	0.14	0.07	0.04	0.02	0.05	0.09
23	0.56	0.25	1.32	0.68	1.81	0.56	0.14	0.07	0.05	0.04	0.12	0.09
24	0.48	0.31	1.11	0.60	0.91	0.52	0.12	0.07	0.04	0.00	0.12	0.09
25	0.40	0.31	0.96	0.60	1.16	0.44	0.12	0.07	0.04	0.04	0.07	0.09
26	0.36	0.44	0.81	0.56	1.21	0.44	0.12	0.07	0.04	0.02	0.07	0.07
27	0.28	0.86	0.72	0.56	0.81	0.40	0.12	0.07	0.04	0.02	0.05	0.07
28	0.25	2.78	0.68	0.91	4.99	0.36	0.14	0.07	0.04	0.02	0.05	0.04
29	0.22	2.42	0.68	0.76	2.15	0.33	0.40	0.05	0.04	0.02		0.04
30	0.25	1.16	0.86	0.56	1.32	0.33	0.17	0.05	0.04	0.04		0.04
31		0.72		0.52	1.06		0.14		0.04	0.02		0.05
Total	7.27	18	37	42	38	57	6.29	2.36	1.33	1.03	1.18	3.05
Mean	0.24	0.58	1.25	1.35	1.23	1.89	0.20	0.08	0.04	0.03	0.04	0.10
Max.	0.86	2.78	5.90	9.60	6.96	9.08	0.40	0.12	0.05	0.05	0.12	0.48
Min.	0.09	0.22	0.25	0.22	0.22	0.33	0.12	0.05	0.04	0.00	0.02	0.04
Runoff - MCM.	0.628	1.555	3.197	3.629	3.283	4.925	0.543	0.203	0.115	0.081	0.098	0.263

WATER YEAR 1965 : Max. 9.60 Min. 0.00 Mean 0.59 Annual Runoff 18.534 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 12	09.00	2.59	19	Sept. 7	09.00	2.43	17

WATER YEAR 1965
CHAO PHYA RIVER BASIN

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

Location: Lat. 15° – 40' – 15" N., Long 100° – 06' – 45" E., on the left bank, about 3 kilometers downstream from Dechatiwong Bridge, Amphoe Muang, Nakhon Sawan.

Drainage Area: 111,435 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 17.00 m. (M.S.L.)

Bench Mark:
- Location: On the left bank, 20 meters west of the gage site.
- Elevation: BM. 1+26.258 m. (M.S.L.) and BM. 2 + 26.091 m. (M.S.L.)

Gage Reading Frequency: 5 – time daily readings at 06.00, 09.0 , 12.00, 15.00 and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

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, periodic rating curves are used for flow computation.

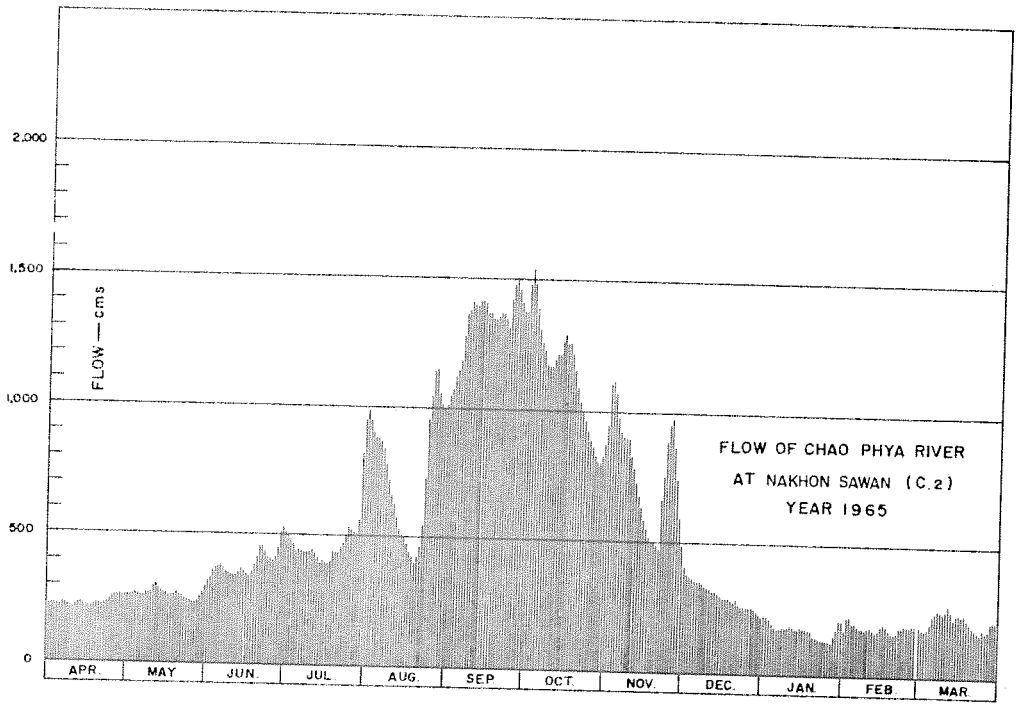
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Flow is diverted for irrigation of about 91,000 hectares above the station. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18.41	18.55	18.70	19.42	20.67	20.92	21.98	20.80	19.17	18.29	18.03	18.13
2	.42	.55	.74	.38	.61	.98	22.07	21.17	.06	.28	.24	.08
3	.42	.56	.90	.33	.53	21.06	.03	.19	18.99-	.24	.24	.07
4	.40	.57	.91	.28	.46	.12	21.88	.06	.93	.19	.11	.10
5	.39	.55	.91	.19	.48	.22	.71	20.87	.90	.11	.09	.21
6	18.42	18.54	18.92	19.16	20.45	21.46	21.59	20.72	18.80	18.08	18.08	18.35
7	.40	.53	.89	.14	.37	.69	.52	.64	.90	.10	.07	.40
8	.38	.54	.82	.14	.19	.70	.40	.60	.86	.12	.06	.41
9	.40	.54	.80	.11	.00	.73	.37	.56	.80	.12	.05	.39
10	.39	.55	.77	.10	19.84	.71	.35	.47	.76	.12	.08	.35
11	18.42	18.67	18.77	19.13	19.74	21.70	21.43	20.33	18.75	18.13	18.09	18.39
12	.44	.68	.77	.08	.56	.74	.46	.16	.71	.11	.04	.47
13	.45	.62	.82	.02	.43	.75	.45	.01	.69	.07	.02	.42
14	.43	.59	.85	18.96	.33	.73	.56	19.90	.65	.07	.06	.31
15	.41	.59	.84	.95	.30	.70	.61	.74	.62	.09	.15	.37
16	18.40	18.58	18.79	18.94	19.22	21.70	21.57	19.63	18.57	18.09	18.16	18.34
17	.36	.56	.77	.91	.14	.66	.58	.50	.57	.08	.13	.30
18	.41	.57	.83	.96	.07	.65	.47	.41	.55	.08	.05	.33
19	.44	.57	.93	19.10	.01	.67	.33	.38	.51	.00	.00	.27
20	.44	.61	19.07	.11	.07	.71	.16	.31	.50	17.93	17.98	.22
21	18.43	18.55	19.15	19.11	19.18	21.70	21.02	19.24	18.53	17.90	18.01	18.13
22	.44	.53	.16	.19	.44	.66	20.93	.81	.46	.88	.11	.09
23	.46	.49	.09	.24	.95	.63	.84	20.09	.41	.86	.12	.05
24	.51	.48	.03	.39	20.57	.83	.72	.44	.41	.85	.14	.00
25	.55	.48	.00	.43	.80	.95	.64	.63	.41	.83	.13	.07
26	18.57	18.44	18.98	19.39	21.03	22.01	20.56	20.69	18.41	17.81	18.13	18.02
27	.57	.43	19.01	.37	.06	21.95	.47	.53	.40	.81	.14	.06
28	.56	.45	.13	.36	20.94	.84	.41	.21	.37	.88	.13	.21
29	.54	.50	.37	.55	.83	.76	.39	19.74	.33	18.01		.24
30	.55	.55	.45	20.19	.78	.76	.44	.41	.30	.22		.22
31		.63		.58	.83		.58		.29	.20		.21
Mean	18.44	18.55	18.93	19.26	20.06	21.62	21.24	20.20	18.63	18.05	18.09	18.23
Max.	18.57	18.68	19.45	20.58	21.06	22.01	22.07	21.19	19.17	18.29	18.24	18.47
Min.	18.36	18.43	18.70	18.91	19.01	20.92	20.39	19.24	18.29	17.81	17.98	18.00

WATER YEAR 1965 : Max. 22.07 m. Min. 18.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	225	265	321	512	984	1,048	1,473	960	408	225	178	192
2	228	265	332	500	946	1,072	1,531	1,106	379	221	223	182
3	228	271	368	485	904	1,120	1,480	1,118	372	212	227	180
4	223	274	377	470	879	1,144	1,385	1,071	361	200	204	186
5	223	268	377	443	879	1,184	1,307	975	354	184	204	208
6	233	265	380	446	869	1,280	1,256	920	350	178	194	238
7	228	263	371	440	841	1,360	1,227	902	354	180	184	249
8	220	271	356	440	785	1,374	1,178	898	346	184	182	256
9	220	271	350	440	718	1,405	1,166	894	334	184	180	251
10	218	274	341	437	662	1,396	1,162	833	327	186	186	247
11	225	303	341	446	627	1,392	1,194	784	325	188	186	256
12	230	306	341	431	576	1,410	1,211	725	318	186	176	274
13	233	289	356	413	539	1,414	1,211	673	314	178	172	251
14	228	280	365	395	509	1,405	1,261	637	305	178	180	227
15	223	271	362	401	500	1,365	1,286	586	300	184	198	240
16	220	268	347	398	476	1,365	1,252	553	290	180	200	244
17	215	263	341	389	443	1,347	1,256	520	295	178	194	236
18	225	265	359	404	422	1,342	1,211	502	290	178	178	242
19	230	265	389	440	404	1,351	1,154	502	281	162	168	221
20	230	277	431	437	422	1,369	1,086	487	279	152	164	210
21	228	268	455	437	461	1,365	1,032	475	285	146	170	192
22	230	263	458	461	548	1,347	998	663	269	142	190	186
23	235	251	437	476	729	1,312	963	760	258	140	192	178
24	248	248	419	521	953	1,423	920	884	258	138	196	168
25	260	248	410	533	1,044	1,477	891	952	258	135	194	182
26	265	238	404	521	1,136	1,506	862	975	258	131	194	172
27	265	235	419	515	1,148	1,459	830	862	258	131	196	180
28	268	248	452	512	1,056	1,410	809	749	251	154	194	210
29	263	263	515	569	1,012	1,374	802	593	236	180		216
30	265	277	530	813	992	1,374	823	493	227	216		212
31		300		949	1,012		876		225	212		210
Total	7,032	8,313	11,704	15,074	23,476	40,190	35,093	23,052	9,365	5,443	5,304	6,696
Mean	234	268	390	486	757	1,340	1,132	768	302	175	189	216
Max.	268	306	530	949	1,148	1,506	1,531	1,118	408	225	227	274
Min.	215	235	321	389	404	1,048	802	475	225	131	164	168
Runoff - mcm.	607.565	718.243	1,011.226	1,302.394	2,028.326	3,472.416	3,032.035	1,991.693	809.136	470.275	458.266	578.534

WATER YEAR 1965 : Max. 1,531 Min. 131 Mean 522 Annual Runoff 16,480.109 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 2	18.00	22.08	1,537				

WATER YEAR 1965
CHAO PHYA RIVER BASIN

Chao Phya River at Ban Bang Kaeo, Ang Thong (C. 7)

Location: Lat. 14° – 35' – 05" N., Long 100° – 27' – 12" E., on the left bank, infront of the police station, Amphoe Muang, Ang Thong.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.900 m. (M.S.L.)

Bench Mark: BM. C. 7.
- Location: On the left bank infront of Ang Thong police station.
- Elevation: + 6.569 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1930 to date.

Rating Operation:
- Period of Rating: 1955.
- Rated by Float: –
- Rated by Current Meter: 1955.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual ratings.

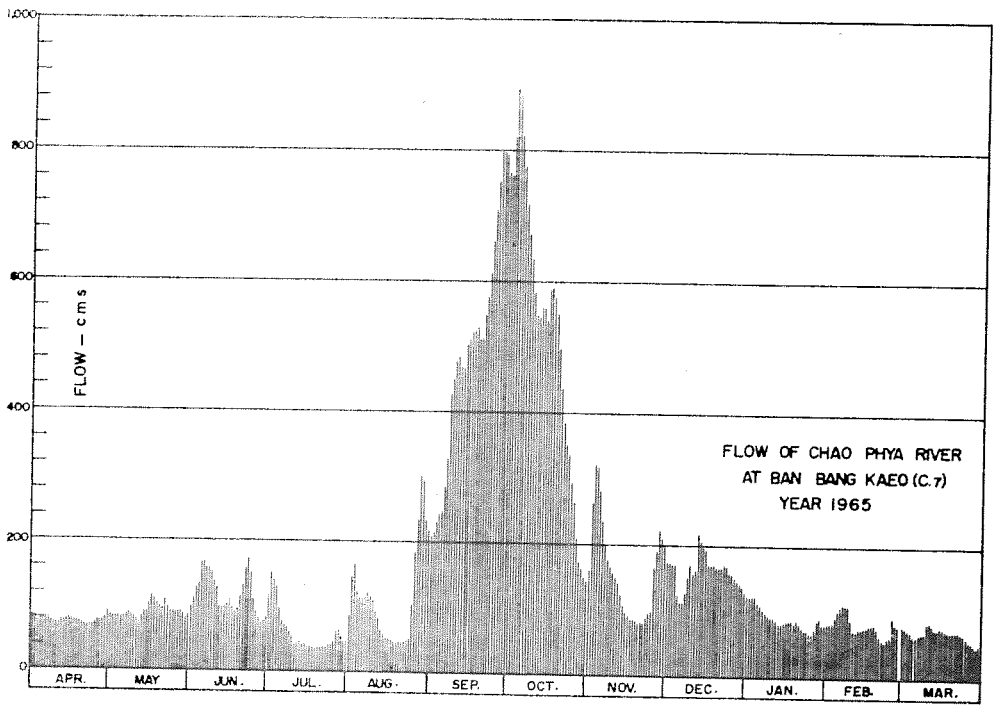
Overbank Flow Conditions: No overbank flow.
Flow data represents channel flow only.

General Description: Stage record is classified as good. Stage–discharge relationship used is defined by discharge measurements made in 1955. Flow at this site is effected by The Chao Phya Diversion.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.85	1.87	2.04	2.20	1.91	2.94	5.55	2.48	2.69	2.28	1.84	1.82
2	.82	.87	.17	.51	2.47	.98	.73	.61	.69	.26	.86	.77
3	.78	.86	.31	.40	.62	3.09	.94	3.11	.66	.26	.87	.75
4	.80	.86	.36	.32	.26	.17	.92	.65	.66	.26	.96	.71
5	.83	.86	.64	.01	.17	.19	.74	.63	.27	.19	2.06	.63
6	1.83	1.87	2.63	1.80	2.16	3.43	5.59	3.42	2.18	2.15	2.12	1.63
7	.82	.98	.57	.73	.19	.68	.40	.13	.17	.07	.16	.66
8	.77	.93	.56	.68	.27	4.19	.24	2.88	.30	.02	.16	.69
9	.74	.89	.52	.57	.20	.30	.10	.71	.51	1.99	.14	.69
10	.73	.85	.40	.50	.15	.43	4.89	.64	.66	.96	1.93	.87
11	1.73	1.80	2.31	1.30	1.97	4.46	4.74	2.57	2.53	1.95	1.73	1.89
12	.77	.76	.03	.36	.83	.38	.73	.51	.61	.91	.71	.83
13	.79	.86	.02	.38	.63	.38	.79	.44	3.00	.84	.76	.77
14	.80	.95	.03	.36	.55	.55	.79	.28	2.93	.85	.76	.77
15	.82	.93	.08	.34	.47	.58	.71	.12	.87	.87	.77	.80
16	1.81	2.07	2.13	1.29	1.46	4.63	4.91	2.02	2.84	1.89	1.79	1.79
17	.79	.19	.03	.29	.43	.64	.92	1.96	.66	.90	.82	.75
18	.76	.15	1.94	.26	.40	.66	.86	.90	.66	.90	.84	.73
19	.74	.08	.99	.24	.37	.58	.67	.88	.66	.87	.85	.73
20	.72	.04	2.18	.26	.39	.59	.52	.82	.64	.91	.79	.73
21	1.69	2.01	2.34	1.27	1.37	4.74	4.24	1.84	2.62	1.84	1.62	1.72
22	.69	.14	.55	.26	.40	.86	3.98	.85	.63	.77	.56	.72
23	.70	.03	.67	.27	.42	5.01	.81	.92	.66	.74	.52	.70
24	.70	1.95	.52	.30	.44	.20	.72	2.00	.65	.73	.59	.68
25	.73	.94	.14	.33	2.07	.38	.48	.02	.57	.67	.86	.60
26	1.76	1.94	1.93	1.38	2.76	5.52	3.30	2.62	2.55	1.68	1.96	1.55
27	.75	.94	.83	.60	3.13	.66	2.94	.82	.50	.76	.85	.53
28	.78	.96	.76	.61	.54	.66	.68	3.04	.46	.91	.82	.49
29	.83	.90	.78	.48	.49	.65	.60	2.95	.43	.93		.43
30	.92	.83	.84	.39	.12	.56	.51	.90	.39	.83		.47
31		.88		.39	.00		.44		.33	.83		.70
Mean	1.77	1.94	2.21	1.54	2.08	3.47	4.58	2.58	2.55	1.94	1.85	1.70
Max.	1.92	2.19	2.67	2.51	3.54	5.66	5.94	3.65	3.00	2.28	2.16	1.89
Min.	1.69	1.76	1.76	1.24	1.37	2.94	2.44	1.82	2.17	1.67	1.52	1.43

WATER YEAR 1965 : Max. 5.94 m. Min. 1.24 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	82	84	100	116	88	209	763	150	175	125	82	80
2	80	84	113	152	147	215	820	163	175	123	83	76
3	79	83	128	139	166	231	895	266	171	123	84	74
4	78	83	134	129	123	243	884	323	171	123	92	71
5	81	83	168	97	115	246	822	319	124	115	102	64
6	81	84	167	78	112	285	775	283	114	110	108	64
7	80	86	159	72	115	328	718	237	113	103	112	67
8	76	90	158	68	124	427	672	202	127	98	112	69
9	73	86	153	60	116	450	635	177	152	95	110	69
10	72	82	139	54	111	477	584	168	171	91	90	84
11	72	78	128	40	93	484	548	159	155	91	72	86
12	76	75	99	44	81	467	545	152	163	88	71	81
13	77	83	98	46	64	467	560	144	218	82	75	76
14	76	91	99	44	58	503	560	125	207	82	75	76
15	80	90	104	43	52	510	540	108	199	84	76	78
16	79	103	109	39	51	522	588	98	195	86	77	77
17	77	115	99	39	49	524	591	92	171	87	80	74
18	75	111	91	38	47	529	576	87	171	87	82	72
19	73	104	95	36	45	510	531	85	171	84	82	72
20	72	100	114	38	46	513	497	80	168	88	77	72
21	69	97	132	38	45	548	437	82	166	82	64	72
22	69	110	157	38	47	576	384	82	167	76	59	72
23	70	99	172	38	48	612	352	89	171	73	56	70
24	70	91	152	40	50	661	336	96	169	72	61	68
25	72	91	110	42	103	712	294	98	159	68	83	62
26	75	91	90	46	184	754	264	166	157	68	92	58
27	75	91	81	62	237	797	209	192	151	75	82	56
28	76	92	75	63	304	797	173	224	146	88	80	53
29	81	87	76	53	295	794	163	210	143	90		49
30	89	81	82	46	236	766	152	203	138	81		52
31		85		46	218		144		131	81		70
Total	2,284	2,810	3,582	1,884	3,568	15,157	16,012	4,860	5,009	2,819	2,319	2,164
Mean	76	91	119	61	115	505	516	162	161	91	83	70
Max.	89	115	172	152	304	797	895	323	218	125	112	86
Min.	69	81	75	36	45	209	144	80	113	68	56	49
Runoff – MCM.	197.338	242.784	309.485	162.778	308.275	1,309.565	1,383.437	419.904	432.778	243.562	200.362	186.970

WATER YEAR 1965 : Max. 895 Min. 36 Mean 171 Annual Runoff 5,397.235 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	12.00	5.94	895				

WATER YEAR 1965
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., about 1.500 meters downstream from Chao Phya Diversion Dam, Amphoe Sanphaya, Chai Nat.

Drainage Area: 120,693 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage

Zero Gage at Bottom at: + 6.500 m. (M.S.L.)

Bench Mark: BM. C. 13
- Location: On the left bank, 5 meters from BM. - H.S./R.I.D. No. 1.
- Elevation: + 15.634 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1947 to date.

Rating Operation:
- Period of Rating: 1947 - 49, 1951 - 59, 1961 - 62.
- Rated by Float: -
- Rated by Current Meter: 1947 - 49, 1951 - 59, 1961 - 62.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual ratings.

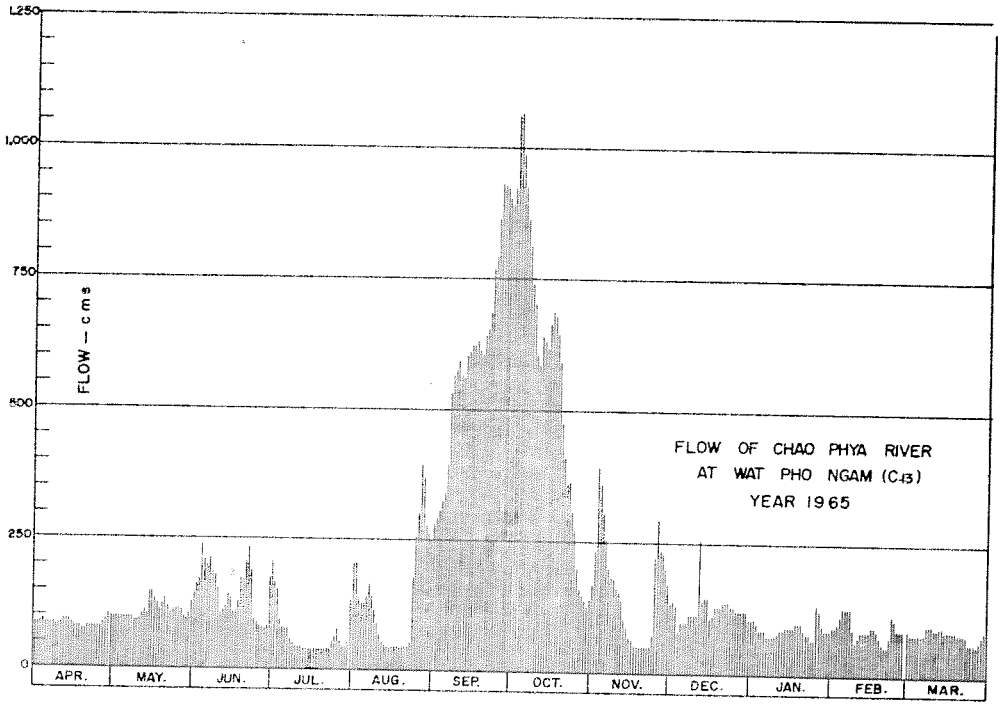
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made in 1962. Flow is diverted for irrigation of about 979,000 hectares above the station. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	7.50	7.60	7.90	8.25	8.23	8.63	11.10	8.02	7.82	7.65	7.55	7.50
2	.50	.60	8.00	.02	.24	.68	.52	.39	.85	.65	.55	.43
3	.52	.60	.05	7.95	7.87	.75	.54	9.15	.80	.60	.60	.43
4	.55	.60	.42	.55	.80	.85	.30	.00	.45	.50	.70	.43
5	.50	.60	.26	.45	.80	.92	.11	8.74	.60	.50	.80	.43
6	7.50	7.60	8.20	7.45	7.87	9.15	10.91	8.49	7.60	7.50	7.80	7.43
7	.50	.60	.28	.45	8.00	.72	.73	.20	.60	.40	.80	.45
8	.50	.60	.13	.27	7.80	.86	.48	.10	.70	.40	.80	.58
9	.45	.55	.10	.20	.72	.90	.35	.10	.70	.40	.50	.60
10	.50	.55	7.95	.15	.52	.97	.00	7.99	.70	.40	.30	.60
11	7.50	7.57	7.65	7.13	7.37	9.87	9.93	7.95	7.70	7.45	7.40	7.52
12	.55	.65	.70	.15	.22	.84	10.13	.86	8.50	.50	.48	.52
13	.55	.70	.75	.10	.18	10.00	.10	.65	7.85	.50	.48	.55
14	.55	.65	.88	.10	.15	.03	.05	.52	.90	.55	.48	.55
15	.50	.91	.85	.10	.15	.07	.22	.36	.90	.55	.48	.50
16	7.45	7.92	7.67	7.10	7.15	10.07	10.30	7.32	7.65	7.55	7.55	7.50
17	.45	.83	.68	.10	.15	.10	.27	.23	.70	.55	.55	.50
18	.45	.81	.80	.10	.15	.04	.15	.21	.80	.60	.50	.50
19	.40	.70	8.06	.10	.15	.00	9.96	.20	.80	.60	.40	.50
20	.40	.76	.05	.10	.15	.14	.50	.20	.80	.60	.30	.45
21	7.45	7.84	8.25	7.10	7.15	10.18	9.23	7.20	7.85	7.50	7.25	7.45
22	.45	.73	.38	.10	.15	.30	.00	.20	.85	.43	.25	.45
23	.45	.65	.15	.10	.23	.58	.02	.20	.85	.43	.40	.43
24	.45	.70	7.59	.23	8.08	.65	8.75	.40	.80	.35	.70	.30
25	.45	.70	.52	.32	.50	.91	.59	8.31	.80	.35	.65	.30
26	7.45	7.72	7.47	7.43	8.74	11.13	8.20	8.69	7.75	7.83	7.50	7.30
27	.50	.70	.45	.25	9.15	.12	7.98	.39	.75	.77	.50	.28
28	.55	.60	.45	.15	.05	.11	.90	.36	.75	.55	.50	.35
29	.63	.56	.47	.15	8.62	.04	.85	.20	.75	.50		.43
30	.60	.63	8.08	.22	.53	.00	.78	.05	.75	.50		.50
31		.80		.82	.47		.85		.65	.50		.53
Mean	7.49	7.68	7.91	7.31	7.78	10.02	9.73	7.92	7.77	7.52	7.53	7.46
Max.	7.63	7.92	8.42	8.25	9.15	11.13	11.54	9.15	8.50	7.83	7.80	7.60
Min.	7.40	7.55	7.45	7.10	7.15	8.63	7.78	7.20	7.45	7.35	7.25	7.28

WATER YEAR 1965 : Max. 11.54 m. Min. 7.10 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	85	98	145	207	203	281	920	166	131	105	91	85
2	85	98	162	166	205	291	1,058	233	136	105	91	77
3	88	98	171	153	140	305	1,064	391	128	98	98	77
4	91	98	239	91	128	325	985	358	79	85	112	77
5	85	98	209	79	128	340	923	303	98	85	128	77
6	85	98	198	79	140	391	863	253	98	85	128	77
7	85	98	212	79	162	530	811	198	98	73	128	79
8	85	98	185	58	140	565	738	180	112	73	128	95
9	79	91	180	50	115	575	700	180	112	73	85	98
10	85	91	153	44	88	594	602	160	112	73	61	98
11	85	94	105	42	69	564	583	153	112	79	73	88
12	91	105	112	44	52	560	638	138	255	85	83	88
13	91	112	120	39	48	602	630	105	136	85	83	91
14	91	105	142	39	44	610	616	88	145	91	83	91
15	85	147	136	39	44	622	664	68	145	91	83	85
16	79	148	108	39	44	622	686	63	105	91	91	85
17	79	133	109	39	44	630	678	53	112	91	91	85
18	79	130	128	39	44	613	644	51	128	98	85	85
19	73	112	173	39	44	602	591	50	128	98	73	85
20	73	122	171	39	44	641	475	50	128	98	61	79
21	79	135	207	39	44	652	410	50	136	85	55	79
22	79	117	231	39	44	686	358	50	136	77	55	79
23	79	105	189	39	53	767	362	50	136	77	73	77
24	79	112	97	53	176	787	305	73	128	67	112	61
25	79	112	88	63	255	863	273	218	128	67	105	61
26	79	115	81	77	303	930	198	293	120	133	85	61
27	85	112	79	55	391	926	159	233	120	123	85	59
28	91	98	79	44	369	923	145	227	120	91	85	67
29	102	93	81	44	279	902	136	198	120	85		77
30	98	102	176	52	261	890	125	171	120	85		85
31		128		131	249		136		105	85		89
Total	2,529	3,403	4,466	2,040	4,350	18,589	17,476	4,804	3,867	2,737	2,511	2,497
Mean	84	110	149	66	140	620	564	160	125	88	90	80
Max.	102	148	239	207	391	930	1,064	391	255	133	128	98
Min.	73	91	79	39	44	281	125	50	79	67	55	59
Runoff - MCM.	218.506	294.019	385.862	176.256	375.840	1,606.090	1,509.926	415.066	334.109	236.477	216.950	215.741

WATER YEAR 1965 : Max. 1,064 Min. 39 Mean 190 Annual Runoff 5,984.842 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	06.00	11.56	1,071				

WATER YEAR 1965
CHAO PHYA RIVER BASIN

Chao Phya River at In Buri, Sing Buri (C.14)

Location: Lat. 15° - 00' - 30" N., Long 100° - 19' - 50" E., about 200 meters north of the office of Amphoe In Buri, Sing Buri.

Drainage Area: Flood plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 4.500 m. (M.S.L.)

Bench Mark: BM. C.14
- Location: On the right bank infront of The Thai Government Saving Bank.
- Elevation: + 12.694 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1950 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual ratings.

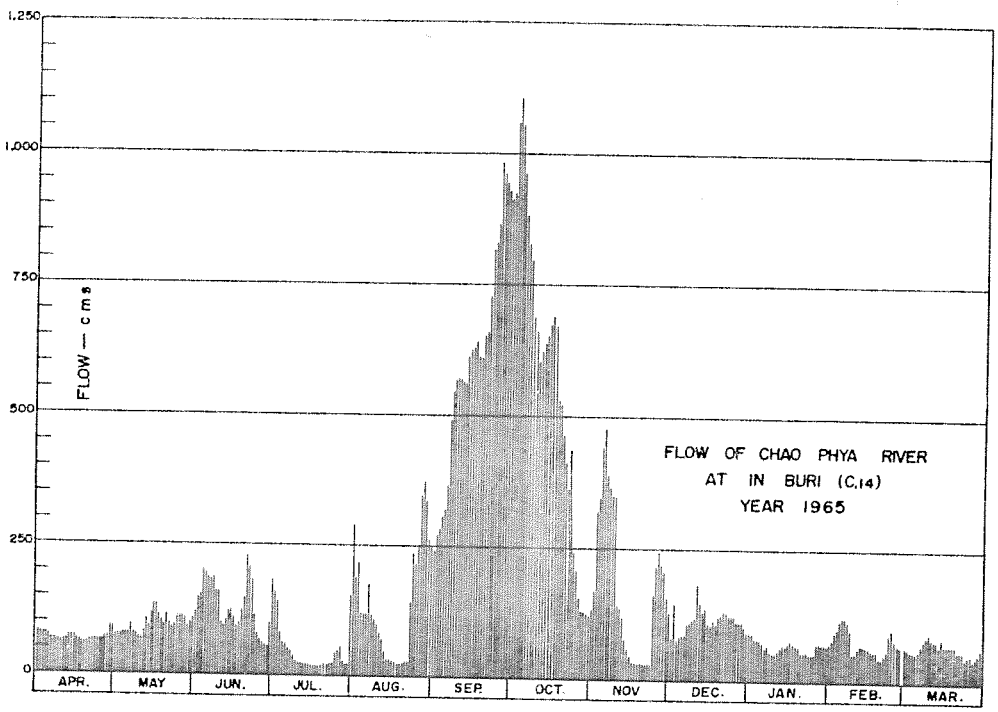
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made in 1955. Flow at this site is effected by the Chao Phya diversion.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.75	5.73	6.00	6.37	6.90	6.65	9.20	6.05	6.06	5.80	5.67	5.63
2	.73	.73	.17	.24	.40	.81	.58	.27	5.73	.78	.71	.60
3	.73	.73	.22	.14	.55	.84	.72	7.03	6.15	.73	.81	.55
4	.73	.75	.46	5.76	.00	.97	.57	.14	5.69	.71	.85	.55
5	.70	.75	.44	.61	5.99	7.02	.31	.53	.74	.70	.95	.54
6	5.65	5.75	6.40	5.59	5.99	7.23	9.07	6.68	5.75	5.67	6.00	5.55
7	.65	.80	.37	.52	6.33	.73	8.89	.32	.77	.59	.00	.65
8	.65	.75	.40	.48	.00	.93	.70	.22	.91	.63	5.97	.71
9	.63	.73	.25	.40	5.93	8.01	.42	.16	.93	.53	.85	.76
10	.60	.68	.25	.30	.85	.02	.17	.15	.94	.51	.50	.80
11	5.60	5.67	5.87	5.25	5.75	8.02	8.14	6.12	5.98	5.50	5.52	5.74
12	.64	.76	.83	.24	.67	.00	.21	.10	6.36	.55	.59	.73
13	.70	.93	.90	.23	.47	7.99	.26	5.98	.15	.60	.65	.70
14	.70	.82	6.01	.23	.33	8.17	.31	.70	.06	.65	.65	.63
15	.70	.98	.04	.22	.32	.22	.38	.56	.10	.63	.63	.71
16	5.65	6.10	5.94	5.20	5.30	8.23	8.44	5.45	5.91	5.66	5.60	5.65
17	.63	.10	.82	.20	.30	.27	.40	.34	.89	.70	.57	.65
18	.60	5.97	.87	.20	.25	.17	.23	.32	.94	.66	.55	.65
19	.60	.91	6.03	.20	.25	.16	7.87	.32	.91	.62	.54	.65
20	.60	.84	.18	.20	.27	.31	.84	.32	6.00	.62	.44	.65
21	5.64	5.98	6.61	5.23	5.30	8.34	7.62	5.31	6.02	5.53	5.42	5.52
22	.65	.87	.51	.23	.33	.55	.41	.30	.05	.53	.50	.55
23	.65	.80	.37	.24	6.00	.86	.20	.30	.05	.53	.55	.55
24	.65	.84	5.96	.25	.63	.90	.50	.30	.00	.50	.78	.44
25	.65	.96	.73	.45	.51	9.02	6.66	6.25	.00	.50	.85	.47
26	5.65	5.96	5.66	5.50	6.71	9.37	6.50	6.53	6.00	5.50	5.74	5.49
27	.68	.96	.60	.54	7.14	.31	.20	.68	5.93	.66	.65	.42
28	.70	.93	.57	.32	.26	.26	.06	.55	.93	.67	.63	.47
29	.83	.82	.55	.24	.10	.21	.05	.48	.93	.65		.52
30	.83	.86	6.00	.23	6.77	.16	.02	.22	.86	.65		.60
31		.93		6.20	.71		.00		.80	.65		.65
Mean	5.67	5.85	6.07	5.45	6.04	8.16	7.93	6.06	5.98	5.59	5.68	5.61
Max.	5.83	6.10	6.61	6.37	7.26	9.37	9.72	7.53	6.36	5.80	6.00	5.80
Min.	5.60	5.67	5.55	5.20	5.25	6.65	6.00	5.30	5.69	5.50	5.42	5.42

WATER YEAR 1965 : Max. 9.72 m. Min. 5.20 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	84	81	122	185	292	240	925	132	132	92	73	68
2	81	81	150	162	190	272	1,058	167	81	89	78	64
3	81	81	158	145	220	279	1,107	322	146	81	93	58
4	81	84	202	86	122	308	1,054	347	76	78	99	58
5	77	84	198	65	120	320	963	442	83	77	114	57
6	70	84	190	63	120	368	882	480	84	73	122	58
7	70	98	185	54	177	493	827	390	87	63	122	70
8	70	84	190	50	122	547	770	366	108	68	117	78
9	68	81	163	40	111	569	686	352	111	56	99	86
10	64	74	163	30	99	572	614	349	113	53	52	92
11	64	73	102	26	84	572	605	141	119	52	54	83
12	69	86	96	25	72	566	625	138	183	58	63	81
13	77	111	107	24	48	563	639	119	146	64	70	77
14	77	95	124	24	33	614	653	77	132	70	70	68
15	77	120	128	24	32	628	674	59	138	68	68	78
16	70	138	113	22	30	630	692	46	108	72	64	70
17	68	138	95	22	30	642	680	34	105	77	60	70
18	64	117	102	22	26	614	630	32	113	72	58	70
19	64	108	127	22	26	611	531	32	108	67	57	70
20	64	98	152	22	28	653	523	32	122	67	45	70
21	69	119	232	24	30	662	465	31	125	56	42	58
22	70	102	212	24	33	725	412	30	130	56	52	58
23	70	92	185	25	122	818	361	30	130	56	58	58
24	70	98	116	26	236	830	435	30	122	52	89	45
25	70	116	81	46	212	866	242	163	122	52	99	48
26	70	116	72	52	252	984	210	216	122	52	83	51
27	74	116	64	57	347	963	155	246	111	72	70	42
28	77	111	60	32	375	946	132	220	111	73	68	48
29	96	95	58	25	338	928	130	206	111	70		53
30	96	101	122	24	264	912	125	158	101	70		64
31		111		155	252		122		92	70		70
Total	2,202	3,093	4,069	1,603	4,443	18,081	17,802	5,387	3,575	2,020	2,139	2,021
Mean	73	99	136	52	143	603	574	179	115	65	76	65
Max.	96	138	232	185	375	984	1,107	480	183	92	122	92
Min.	64	73	58	22	26	240	122	30	76	52	42	42
Runoff - mcm.	190.253	267.235	351.562	138.499	383.875	1,562.198	1,538.093	465.437	308.880	174.528	184.810	174.614

WATER YEAR 1965 : Max. 1,107 Min. 22 Mean 182 Annual Runoff 5,739.984 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 3	18.00	9.75	1,117				

WATER YEAR 1965
SUPHAN RIVER BASIN

Huai Kra Sieo at Ban Wang Yao, Suphan Buri (T. 3)

Location: Lat. 14° – 51' – 44" N., Long 99° – 39' – 10" E., on the right bank, about 2.8 kilometers upstream from the confluence with Huai Yang, and about 2 kilometers upstream of Ban Wang Yao, Amphoe Doembang Nangbuat, Suphan Buri.

Drainage Area: 913 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 70.94 m. (M.S.L.)

Bench Mark:
Location: Located infront of the station office of Station T.3.
Elevation: + 75.541 m. (M.S.L.)

Gage Reading Frequency: 24 – time daily readings.

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

Period of Available Gage Records: 1963 to date.

Rating Operation:
Period of Rating: 1963 to date.
Rated by Float: –
Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Very stable, shifting adjustment is negligible in flow computation, due to its adequate stability of the channel.

Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. There is no diversion above the gage site.

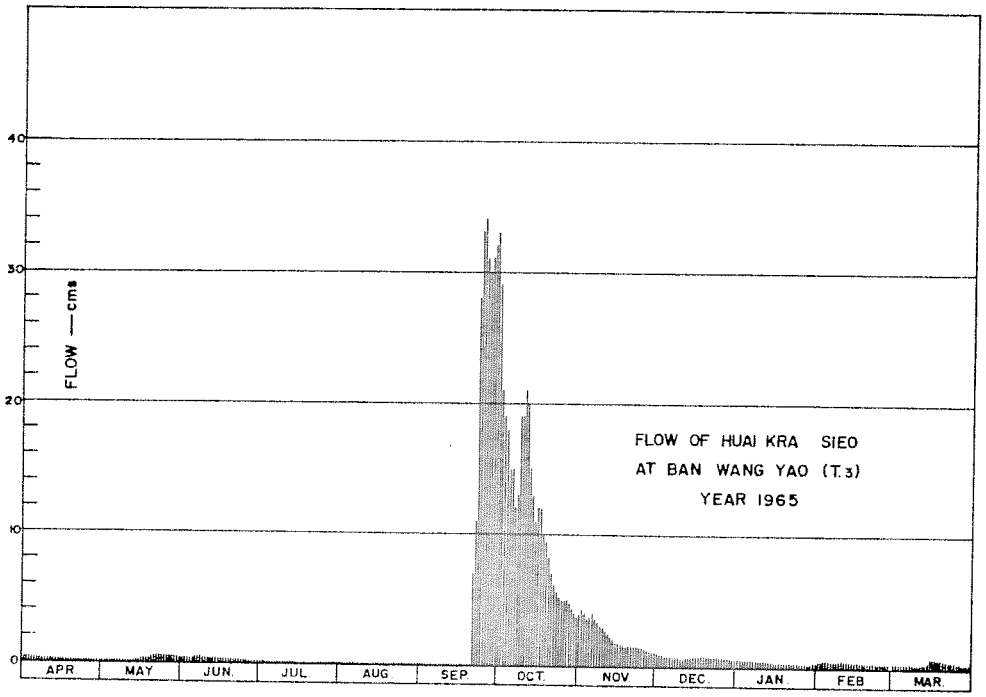
DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.32	0.15	0.38	0.12	0.04	0.06	29	3.88	0.99	0.57	0.44	0.35
2	0.32	0.14	0.38	0.12	0.03	0.05	21	4.20	0.92	0.57	0.50	0.35
3	0.32	0.14	0.38	0.11	0.03	0.04	19	3.88	0.85	0.50	0.47	0.35
4	0.29	0.12	0.38	0.11	0.03	0.03	18	3.56	0.78	0.50	0.50	0.32
5	0.26	0.11	0.38	0.09	0.02	0.02	15	3.72	0.71	0.50	0.50	0.32
6	0.23	0.12	0.41	0.09	0.02	0.01	15	3.88	0.71	0.50	0.47	0.32
7	0.23	0.12	0.41	0.08	0.01	0.01	12	3.56	0.71	0.50	0.47	0.29
8	0.20	0.14	0.41	0.06	0.01	0.01	13	3.26	0.64	0.47	0.47	0.26
9	0.20	0.15	0.38	0.06	0.00	0.00	19	2.98	0.64	0.47	0.50	0.20
10	0.20	0.15	0.38	0.05	0.01	0.00	19	2.84	0.57	0.47	0.50	0.23
11	0.20	0.15	0.35	0.04	0.01	0.01	21	2.56	0.57	0.47	0.47	0.23
12	0.18	0.15	0.35	0.03	0.01	0.01	20	2.42	0.57	0.44	0.44	0.23
13	0.18	0.15	0.32	0.02	0.01	0.01	15	2.14	0.64	0.44	0.44	0.26
14	0.18	0.17	0.32	0.01	0.01	0.00	13	1.92	0.71	0.41	0.41	0.41
15	0.18	0.18	0.29	0.00	0.02	0.01	11	1.76	0.71	0.38	0.41	0.78
16	0.18	0.23	0.29	0.00	0.02	0.01	12	1.68	0.78	0.38	0.41	0.71
17	0.17	0.29	0.26	0.00	0.02	0.01	12	1.60	0.78	0.38	0.38	0.71
18	0.15	0.32	0.26	0.00	0.01	0.01	10	1.44	0.78	0.38	0.38	0.64
19	0.15	0.35	0.23	0.00	0.01	0.00	9.40	1.44	0.78	0.35	0.35	0.64
20	0.15	0.44	0.23	0.00	0.02	0.12	8.20	1.44	0.71	0.35	0.35	0.57
21	0.15	0.47	0.20	0.00	0.02	7.00	7.00	1.44	0.71	0.35	0.32	0.50
22	0.15	0.50	0.20	0.00	0.04	11	6.20	1.44	0.71	0.32	0.32	0.47
23	0.15	0.50	0.18	0.00	0.04	28	5.60	1.44	0.71	0.32	0.29	0.44
24	0.14	0.44	0.18	0.03	0.03	33	5.28	1.36	0.71	0.32	0.29	0.41
25	0.14	0.44	0.17	0.04	0.06	34	5.00	1.36	0.64	0.29	0.29	0.38
26	0.15	0.41	0.17	0.05	0.11	31	4.84	1.28	0.64	0.29	0.29	0.35
27	0.15	0.41	0.15	0.04	0.09	30	5.00	1.20	0.64	0.29	0.32	0.32
28	0.15	0.41	0.15	0.04	0.11	31	4.68	1.13	0.64	0.26	0.32	0.29
29	0.15	0.41	0.14	0.04	0.17	32	4.36	1.06	0.57	0.26		0.26
30	0.15	0.38	0.14	0.04	0.11	33	4.04	1.06	0.57	0.35		0.23
31		0.38		0.04	0.08		3.72		0.57	0.38		0.18
Total	5.77	8.52	8.47	1.31	1.21	270	367	67	22	12	11	12
Mean	0.19	0.27	0.28	0.04	0.04	9.01	12	2.23	0.70	0.40	0.40	0.39
Max.	0.32	0.50	0.41	0.12	0.17	34	29	4.20	0.99	0.57	0.50	0.78
Min.	0.14	0.11	0.14	0.00	0.00	0.00	3.72	1.06	0.57	0.26	0.29	0.18
Runoff - mcm.	0.498	0.736	0.732	0.113	0.104	23.328	31.709	5.789	1.901	1.037	0.950	1.037

WATER YEAR 1965: Max. 34 Min. 0.00 Mean 2.15 Annual Runoff 67.934 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 25	18.00	75.02	36				



GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	71.64	71.57	71.66	71.55	71.49	71.51	72.87	72.03	71.77	71.71	71.68	71.65
2	.64	.56	.66	.55	.48	.50	.68	.05	.76	.71	.70	.65
3	.64	.56	.66	.54	.48	.49	.63	.03	.75	.70	.69	.65
4	.63	.55	.66	.54	.48	.48	.60	.01	.74	.70	.70	.64
5	.62	.54	.66	.53	.47	.47	.50	.02	.73	.70	.70	.64
6	71.61	71.55	71.67	71.53	71.47	71.46	72.50	72.03	71.73	71.70	71.69	71.64
7	.61	.55	.67	.52	.46	.46	.40	.01	.73	.70	.69	.63
8	.60	.56	.67	.51	.46	.46	.43	71.99	.72	.69	.69	.62
9	.60	.57	.66	.51	.45	.45	.61	.97	.72	.69	.70	.60
10	.60	.57	.66	.50	.46	.45	.63	.96	.71	.69	.70	.61
11	71.60	71.57	71.65	71.49	71.46	71.46	72.67	71.94	71.71	71.69	71.69	71.61
12	.59	.57	.65	.48	.46	.46	.64	.93	.71	.68	.68	.61
13	.59	.57	.64	.47	.46	.46	.51	.91	.72	.68	.68	.62
14	.59	.58	.64	.46	.46	.45	.44	.89	.73	.67	.67	.67
15	.59	.59	.63	.45	.47	.46	.38	.87	.73	.66	.67	.74
16	71.59	71.61	71.63	71.45	71.47	71.46	72.40	71.86	71.74	71.66	71.67	71.73
17	.58	.63	.62	.44	.47	.46	.40	.85	.74	.66	.66	.73
18	.57	.64	.62	.44	.46	.46	.34	.83	.74	.66	.66	.72
19	.57	.65	.61	.45	.46	.45	.30	.83	.74	.65	.65	.72
20	.57	.68	.61	.44	.47	.55	.25	.83	.73	.65	.65	.71
21	71.57	71.69	71.60	71.44	71.47	72.20	72.20	71.83	71.73	71.65	71.64	71.70
22	.57	.70	.60	.44	.49	.36	.16	.83	.73	.64	.64	.69
23	.57	.70	.59	.45	.49	.85	.13	.83	.73	.64	.63	.68
24	.56	.68	.59	.48	.48	.95	.11	.82	.73	.64	.63	.67
25	.56	.68	.58	.49	.51	.98	.10	.82	.72	.63	.63	.66
26	71.57	71.67	71.58	71.50	71.54	72.91	72.09	71.81	71.72	71.63	71.63	71.65
27	.57	.67	.57	.49	.53	.88	.10	.80	.72	.63	.64	.64
28	.57	.67	.57	.49	.54	.90	.08	.79	.72	.62	.64	.63
29	.57	.67	.56	.49	.58	.93	.06	.78	.71	.62		.62
30	.57	.66	.56	.49	.54	.95	.04	.78	.71	.65		.61
31		.66		.49	.52		.02		.71	.66		.59
Mean	71.59	71.61	71.62	71.48	71.48	71.91	72.36	71.89	71.72	71.66	71.66	71.65
Max.	71.64	71.70	71.67	71.55	71.58	72.98	72.87	72.05	71.77	71.71	71.70	71.74
Min.	71.56	71.54	71.56	71.44	71.45	71.45	72.02	71.78	71.71	71.62	71.63	71.59

WATER YEAR 1965 : Max. 72.98 m. Min. 71.44 m.

WATER YEAR 1965
PRACHIN RIVER BASIN

Prachin river at Kabin Buri, Prachin Buri (Kgt. 3)

Location: Lat. 13° - 59' - 15" N., Long 100° - 42' - 32" E., on the left bank infront of the office of Amphoe Kabin Buri, and is about 500 meters downstream from the confluence of Lam Phra Prong and Lam Hanuman.

Drainage Area: 7,502 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: - 0.49 m. (M.S.L.)

Bench Mark:
Location: BM. - H.S./R.I.D., located on the left bank, at the fence of Amphoe Kabin Buri.
Elevation: 10.178 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

Period of Available Gage Records: 1941 to date.

Rating Operation:
Period of Rating: 1941, 1943 - 44, 1949 and 1964 to date.
Rated by Float: 1941, 1943 - 44 and 1949.
Rated by Current Meter: 1964 to date.

Stability of Channel Regimes: Fairly stable, the flow is computed by using periodic rating curves, i.e., rising stage and falling stage rating curves.

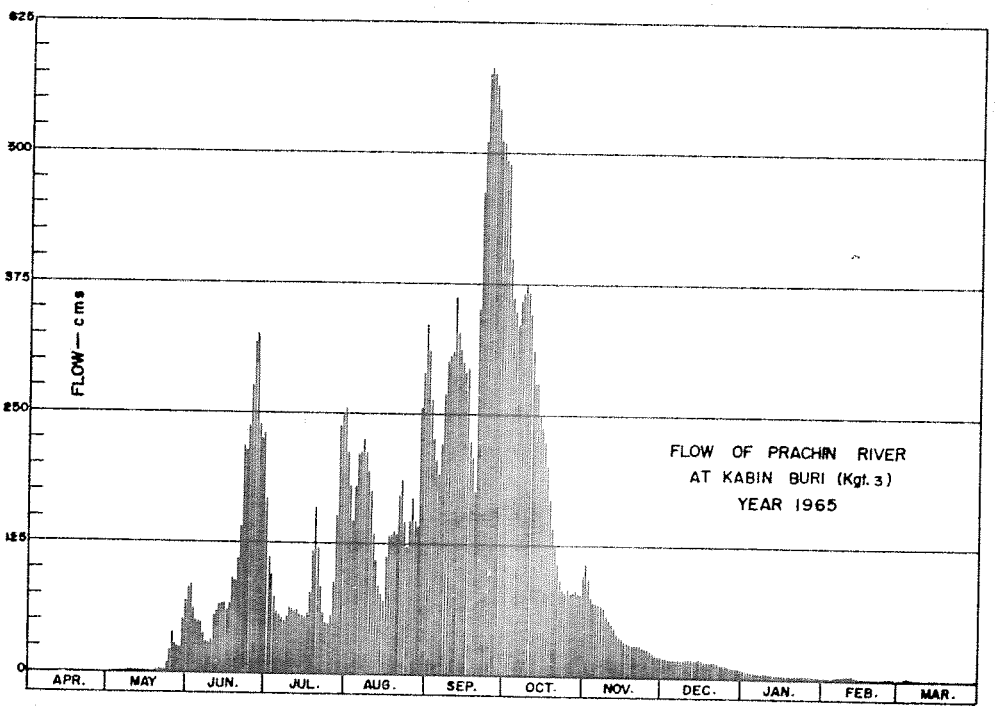
Overbank Flow Conditions: Flow begins to overtop right bank at elevation + 7.70 m. (M.S.L.), but it is not included due to insufficient data.

General Description: Records are classified as good as far as channel flow is concerned. There is no diversion above this station.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.17	0.13	2.74	4.50	5.34	6.58	7.96	3.64	1.14	0.67	0.32	0.30
2	.19	.13	.84	3.86	4.87	.01	.44	.22	.14	.64	.32	.29
3	.18	.10	.56	.30	.34	5.55	.11	2.80	.10	.61	.34	.29
4	.16	.10	.22	2.81	.50	.26	.01	.68	.10	.58	.32	.30
5	.16	.14	.14	.43	.97	.06	6.87	.62	.10	.56	.30	.28
6	0.15	0.12	2.12	2.34	4.98	5.21	7.10	2.60	1.09	0.55	0.35	0.26
7	.15	.09	1.92	.26	5.18	.77	.22	.42	.09	.53	.37	.25
8	.15	.12	.64	.16	.00	6.20	.26	.35	.08	.52	.37	.24
9	.16	.19	.50	.19	.39	.22	.22	.27	.10	.51	.39	.22
10	.17	.18	.54	.39	4.78	.29	6.98	.16	.10	.50	.39	.21
11	0.18	0.20	2.17	2.33	4.10	6.89	6.59	2.04	1.10	0.50	0.38	0.20
12	.21	.22	.26	.29	3.58	.77	.23	1.94	.10	.48	.37	.21
13	.24	.25	.45	.33	.10	.60	.23	.84	.10	.47	.34	.20
14	.23	.30	.45	.21	2.82	.17	5.83	.76	.10	.46	.34	.20
15	.22	.25	.48	.19	.71	.06	.68	.69	.10	.45	.33	.21
16	0.21	0.22	2.31	2.13	3.31	6.11	5.51	1.64	1.09	0.44	0.32	0.21
17	.20	.29	.41	.27	.82	5.51	.17	.59	.06	.43	.31	.19
18	.18	.30	.99	.81	.84	4.98	4.69	.58	.04	.42	.30	.18
19	.16	.27	.96	3.46	.88	.76	.22	.56	.02	.41	.28	.18
20	.16	.38	3.31	4.17	.84	6.78	3.87	.54	.03	.40	.27	.17
21	0.16	0.40	3.96	3.83	4.36	7.89	3.54	1.56	1.01	0.38	0.26	0.16
22	.16	.37	4.62	2.93	.61	8.32	.18	.51	0.98	.38	.26	.15
23	.16	.36	.55	.40	.20	.84	2.96	.47	.96	.37	.27	.14
24	.16	.70	.98	.17	3.85	.95	.89	.42	.92	.36	.34	.13
25	.16	1.26	5.88	.09	4.17	.92	.96	.38	.88	.36	.30	.13
26	0.20	1.60	6.35	2.21	4.75	8.84	2.87	1.34	0.85	0.36	0.28	0.12
27	.18	.43	.47	.89	.33	.70	.87	.28	.82	.35	.27	.11
28	.15	.35	.03	3.95	.20	.46	.94	.24	.79	.35	.29	.10
29	.14	.34	5.19	5.31	5.57	.44	.88	.21	.75	.35		.10
30	.13	2.06	.27	.50	6.14	.35	.83	.17	.71	.33		.10
31		.50		.61	.60		3.29		.69	.32		.09
Mean	0.17	1.56	3.34	3.01	4.42	6.82	5.14	1.92	1.00	0.45	0.32	0.19
Max.	0.24	2.50	6.47	5.61	6.60	8.95	7.96	3.64	1.14	0.67	0.39	0.30
Min.	0.13	0.09	1.50	2.09	2.71	4.76	2.83	1.17	0.69	0.32	0.26	0.09

WATER YEAR 1965 : Max. 8.95 m. Min. 0.09 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.65	81	158	211	309	449	112	18	7.40	2.20	2.00
2	0.95	0.65	86	123	180	261	392	93	18	6.80	2.20	1.90
3	0.90	0.50	65	97	148	225	359	75	17	6.20	2.40	1.90
4	0.80	0.50	52	75	180	205	348	70	17	5.70	2.20	2.00
5	0.80	0.70	49	60	211	192	335	68	17	5.40	2.00	1.80
6	0.75	0.60	48	57	212	227	358	67	17	5.25	2.50	1.60
7	0.75	0.45	41	53	225	268	370	60	17	4.95	2.70	1.50
8	0.75	0.60	32	49	213	302	374	57	16	4.80	2.70	1.40
9	0.80	0.95	30	56	240	304	370	54	17	4.65	2.90	1.20
10	0.85	0.90	31	64	175	309	346	49	17	4.50	2.90	1.10
11	0.90	1.00	55	62	135	361	310	45	17	4.50	2.80	1.00
12	1.10	1.20	59	60	110	326	278	41	17	4.20	2.70	1.10
13	1.40	1.50	67	62	88	311	278	38	17	4.05	2.40	1.00
14	1.30	2.00	67	56	76	274	246	36	17	3.90	2.40	1.00
15	1.20	1.50	69	56	71	265	235	34	17	3.75	2.30	1.10
16	1.10	1.20	61	53	109	269	223	32	17	3.60	2.20	1.10
17	1.00	1.90	65	59	138	223	199	31	16	3.45	2.10	0.95
18	0.90	2.00	93	84	139	187	169	30	15	3.30	2.00	0.90
19	0.80	1.70	92	118	142	174	142	30	15	3.15	1.80	0.90
20	0.80	2.80	109	159	139	349	123	29	15	3.00	1.70	0.85
21	0.80	3.00	147	121	171	461	108	30	15	2.80	1.60	0.80
22	0.80	2.70	188	80	188	510	92	28	14	2.80	1.60	0.75
23	0.80	2.60	184	59	140	575	82	27	13	2.70	1.70	0.70
24	0.80	8.00	212	50	122	581	79	26	12	2.60	2.40	0.65
25	0.80	23	276	47	159	576	82	24	12	2.60	2.00	0.65
26	1.00	33	314	56	197	564	78	23	11	2.60	1.80	0.60
27	0.90	28	324	88	148	544	78	21	10	2.50	1.70	0.55
28	0.75	25	262	146	140	511	81	20	9.80	2.50	1.90	0.50
29	0.70	25	200	234	254	508	78	20	9.00	2.50		0.50
30	0.65	50	206	248	297	496	76	19	8.20	2.30		0.50
31		69		256	335		96		7.80	2.20		0.45
Total	27	293	3,565	2,946	5,293	10,667	6,834	1,289	456	121	62	33
Mean	0.89	9.44	119	95	171	355	220	43	15	3.89	2.21	1.06
Max.	1.40	69	324	256	335	581	449	112	18	7.40	2.90	2.00
Min.	0.65	0.45	30	47	71	174	76	19	7.80	2.20	1.60	0.45
Runoff - MCM.	2.333	25.315	308.016	254.534	457.315	921.629	590.458	111.370	47.174	10.454	5.357	2.851

WATER YEAR 1965 : Max. 581 Min. 0.45 Mean 86 Annual Runoff 2,729.030 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept.24	09.00	8.97	592				

WATER YEAR 1965
PRACHIN RIVER BASIN

Khlong Luang at Ban Mai, Chon Buri (Kgt. 19)

Location: Lat. 13° – 23' – 17" N., Long 101° – 20' – 40" E., on the left bank, 16 kilometers east of the office of Amphoe Phanat Nikhom, and 4 kilometers east of Kok Pho market, Chon Buri.

Drainage Area: 535 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 20.124 m. (M.S.L.)

Bench Mark:
- Location: BM. – H.S., located on the left bank infront of the station office of Kgt. 19.
- Elevation: + 25.780 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate for its mean daily value.

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: Very stable, shifting adjustment is negligible in flow computation due to adequate stability.

Overbank Flow Conditions: No overbank flow.

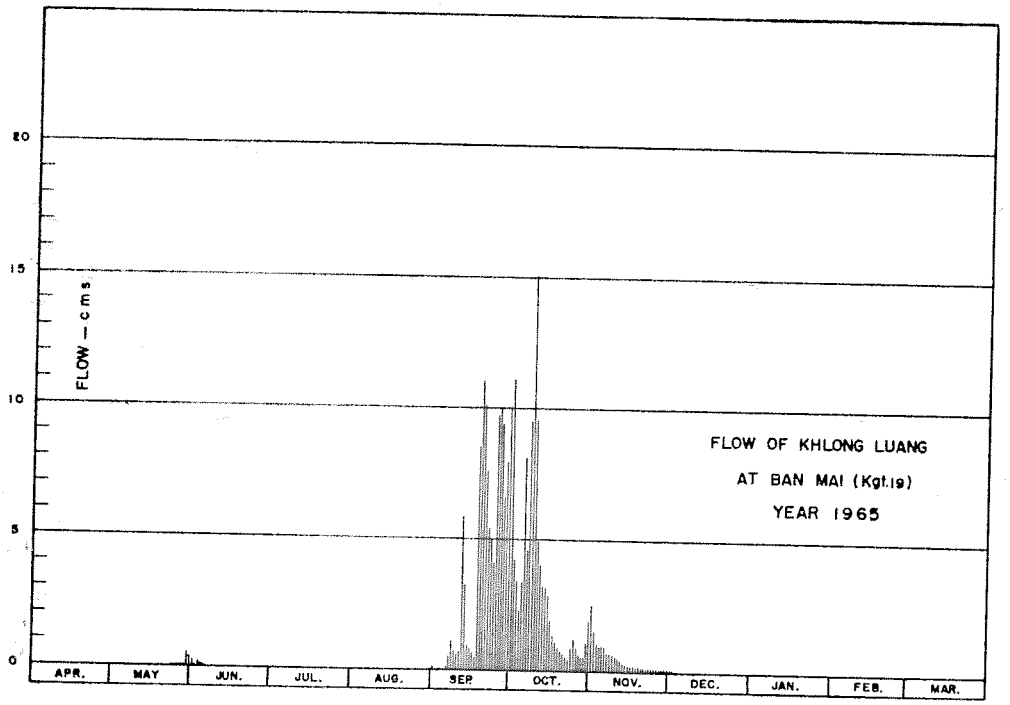
General Description: Records are classified as fair. Stage-discharge relationship is defined by discharge measurements made in 1965. There is no diversion above this station.

Remark: Gage height began to record on May 9, 1965 and no gage height record for Mar. 1966.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			20.74	20.40	20.25	20.69	23.09	21.57	20.62	20.54	20.28	
2			.68	.39	.23	.62	22.02	.33	.62	.54	.28	
3			.73	.38	.21	.54	21.66	.23	.61	.54	.28	
4			.68	.37	.21	.49	.44	.19	.60	.54	.28	
5			.64	.35	.19	.55	.70	.21	.60	.54	.24	
6			20.58	20.41	20.18	20.57	22.69	21.19	20.60	20.54	20.24	
7			.53	.41	.16	.82	.05	.07	.60	.54	.24	
8			.52	.40	.21	21.26	.01	.06	.60	.48	.24	
9			.50	.39	.30	.10	23.70	.04	.60	.48	.24	
10		20.54	.48	.39	.35	20.95	.19	.00	.59	.48	.22	
11		20.53	20.47	20.36	20.33	21.12	22.17	20.94	20.58	20.47	20.21	
12		.50	.45	.35	.30	22.30	21.96	.88	.59	.47	.21	
13		.49	.45	.34	.30	21.53	.76	.84	.59	.45	.21	
14		.47	.43	.33	.36	.21	.74	.81	.66	.45	.21	
15		.47	.43	.32	.35	.12	.70	.80	.69	.45	.21	
16		20.47	20.43	20.30	20.34	21.08	21.44	20.77	20.59	20.45	20.21	
17		.48	.42	.35	.33	20.96	.32	.75	.59	.45	.20	
18		.50	.42	.34	.33	.91	.26	.74	.59	.42	.20	
19		.50	.41	.33	.34	23.10	.17	.74	.59	.42	.20	
20		.50	.41	.32	.34	.06	.08	.73	.59	.42	.20	
21		20.50	20.41	20.32	20.36	22.58	21.01	20.72	20.59	20.42	20.19	
22		.50	.45	.31	.41	.23	20.95	.69	.59	.38	.19	
23		.51	.45	.29	.41	.12	.92	.81	.57	.38	.19	
24		.65	.47	.28	.41	21.71	21.13	.80	.57	.38	.19	
25		.59	.47	.27	.39	22.93	.70	.68	.57	.37	.18	
26		20.58	20.45	20.27	20.40	23.00	21.22	20.67	20.57	20.32	20.18	
27		.55	.44	.25	.39	22.87	.05	.65	.54	.32	.18	
28		.54	.43	.27	.38	.33	20.99	.64	.54	.32	.17	
29		.53	.42	.27	.39	.64	.97	.64	.54	.32		
30		.95	.41	.25	.38	23.00	.96	.63	.54	.30		
31		.87		.25	.37		21.46		.54	.30		
Mean			20.49	20.33	20.31	21.16	21.65	20.89	20.59	20.43	20.22	
Max.			20.74	20.41	20.41	23.10	23.70	21.57	20.62	20.54	20.28	
Min.			20.41	20.25	20.16	20.49	20.92	20.63	20.54	20.30	20.17	

WATER YEAR 1965 : Max. 23.70 m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			0.14	0.00	0.00	0.09	11	2.42	0.02	0.00	0.00	
2			0.08	0.00	0.00	0.02	4.40	1.31	0.02	0.00	0.00	
3			0.13	0.00	0.00	0.00	3.02	1.00	0.01	0.00	0.00	
4			0.08	0.00	0.00	0.00	1.76	0.90	0.00	0.00	0.00	
5			0.04	0.00	0.00	0.00	3.30	0.95	0.00	0.00	0.00	
6			0.00	0.00	0.00	0.00	8.04	0.90	0.00	0.00	0.00	
7			0.00	0.00	0.00	0.24	4.55	0.63	0.00	0.00	0.00	
8			0.00	0.00	0.00	1.09	4.35	0.61	0.00	0.00	0.00	
9			0.00	0.00	0.00	0.69	15	0.58	0.00	0.00	0.00	
10		0.00	0.00	0.00	0.00	0.42	11	0.50	0.00	0.00	0.00	
11		0.00	0.00	0.00	0.00	0.74	5.15	0.40	0.00	0.00	0.00	
12		0.00	0.00	0.00	0.00	5.80	4.10	0.31	0.00	0.00	0.00	
13		0.00	0.00	0.00	0.00	2.20	3.19	0.26	0.00	0.00	0.00	
14		0.00	0.00	0.00	0.00	0.90	3.11	0.22	0.00	0.00	0.00	
15		0.00	0.00	0.00		0.74	3.30	0.21	0.00	0.00	0.00	
16		0.00	0.00	0.00	0.00	0.65	1.79	0.18	0.00	0.00	0.00	
17		0.00	0.00	0.00	0.00	0.44	1.28	0.15	0.00	0.00	0.00	
18		0.00	0.00	0.00	0.00	0.36	1.09	0.14	0.00	0.00	0.00	
19		0.00	0.00	0.00	0.00	11	0.85	0.14	0.00	0.00	0.00	
20		0.00	0.00	0.00	0.00	10	0.65	0.13	0.00	0.00	0.00	
21		0.00	0.00	0.00	0.00	7.38	0.52	0.12	0.00	0.00	0.00	
22		0.00	0.00	0.00	0.00	5.45	0.42	0.09	0.00	0.00	0.00	
23		0.00	0.00	0.00	0.00	4.90	0.37	0.11	0.00	0.00	0.00	
24		0.05	0.00	0.00	0.00	2.99	0.76	0.10	0.00	0.00	0.00	
25		0.00	0.00	0.00	0.00	9.54	1.20	0.08	0.00	0.00	0.00	
26		0.00	0.00	0.00	0.00	10	0.98	0.07	0.00	0.00	0.00	
27		0.00	0.00	0.00	0.00	9.12	0.59	0.05	0.00	0.00	0.00	
28		0.00	0.00	0.00	0.00	5.96	0.48	0.04	0.00	0.00	0.00	
29		0.00	0.00	0.00	0.00	7.74	0.45	0.04	0.00	0.00		
30		0.42	0.00	0.00	0.00	10	0.61	0.03	0.00	0.00		
31		0.30		0.00	0.00		1.86		0.00	0.00		
Total		0.77	0.47	0.00	0.00	108	95	13	0.05	0.00	0.00	
Mean		0.02	0.01	0.00	0.00	3.61	3.06	0.43	0.00	0.00	0.00	
Max.		0.42	0.14	0.00	0.00	11	15	2.42	0.02	0.00	0.00	
Min.		0.00	0.00	0.00	0.00	0.00	0.37	0.03	0.00	0.00	0.00	
Runoff - MCM.		0.066	0.041	0.000	0.000	9.331	8.208	1.123	0.004	0.000	0.000	

WATER YEAR 1965 : Max. 15 Min. 0.00 Mean 0.59 Annual Runoff 18.773 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 10	18.00	23.94	17	Oct. 1	06.00	23.58	14

WATER YEAR 1965
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 the left bank, 10 kilometers from Suwanson road, and 12 kilometers upstream from muang Nakhon Nayok.

Drainage Area: 526 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 2.959 m. (M.S.L.)

Bench Mark:
Location: BM. - R.I.D. located on the right bank near the upper 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 which is adequate for its mean daily value.

Period of Available Gage Records: 1952 to date.

Rating Operation:
Period of Rating: 1952 - 57.
Rated by Float: -
Rated by Current Meter: 1952 - 57.

Stability of Channel Regimes: Fairly stable. No adjustment for shifting control due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

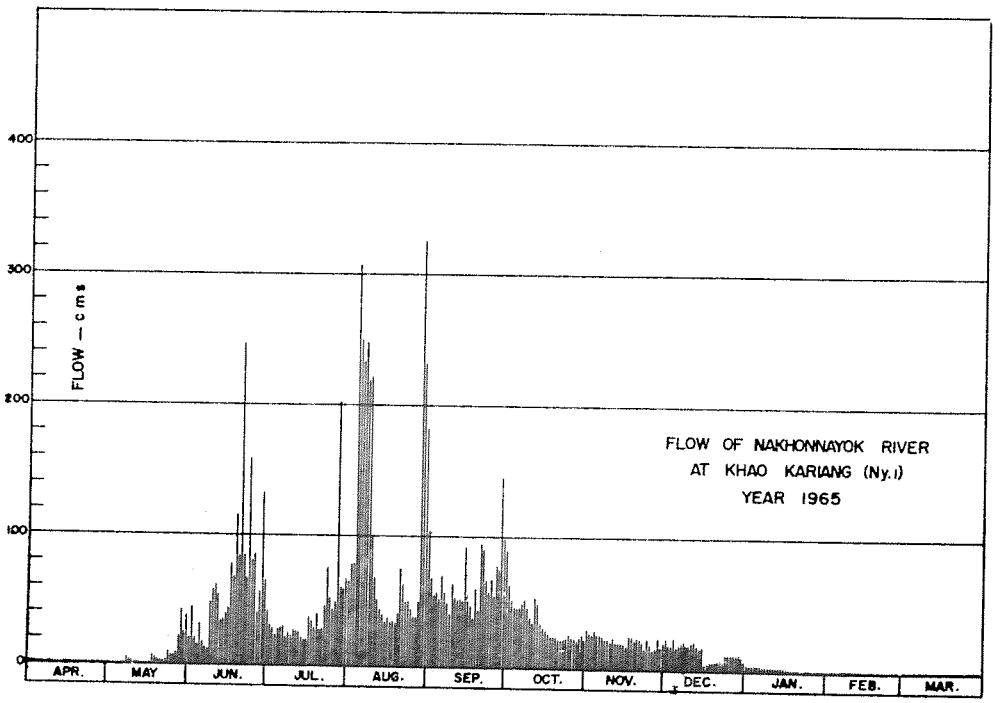
General Description: Records are classified as fair. Stage-discharge relationship is difined by discharge measurements made during 1955 - 58. Stage for drought period is effected by backwater for Nakhon Nayok Barrage. There is no diversion above this station.

Remark:

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar
1	3.47	3.45	4.44	5.10	5.67	6.47	6.19	4.78	4.57	3.80	3.49	3.50
2	.52	.45	5.15	4.79	.96	5.76	5.63	.66	.38	.79	.49	.50
3	.51	.44	4.44	.75	.98	.41	.35	.65	.38	.79	.58	.50
4	.49	.44	.24	.55	8.99	.48	.19	.72	.57	.78	.53	.50
5	.48	.45	.79	.69	.53	.35	.17	.65	.30	.76	.52	.50
6	3.47	3.45	4.35	4.74	8.35	5.79	5.21	4.62	4.39	3.74	3.52	3.50
7	.46	.48	.16	.78	.49	.48	.27	.59	.43	.73	.50	.50
8	.46	.78	.11	.49	.19	.27	.36	.55	.51	.71	.52	.50
9	.46	.73	5.25	.60	.21	.04	.19	.50	.39	.70	.52	.50
10	.46	.65	.47	.54	6.38	.64	.00	.43	.39	.70	.51	.50
11	3.45	3.58	5.59	4.66	5.74	5.37	4.88	4.57	4.47	3.69	3.50	3.50
12	.43	.57	.41	.66	.35	.33	5.39	.43	.50	.67	.50	.50
13	.43	.51	4.87	.62	.12	.34	.28	.43	.40	.66	.50	.50
14	.44	.51	.91	.49	.03	.29	4.89	.43	.32	.65	.50	.50
15	.45	.50	5.06	.45	4.88	6.24	.81	.40	.36	.63	.50	.50
16	3.45	3.49	5.12	4.45	5.00	5.31	4.73	4.34	3.75	3.60	3.50	3.50
17	.44	.50	.96	5.01	4.89	.23	.68	.59	.84	.60	.50	.50
18	.45	.87	.71	4.88	.93	4.98	.57	.61	.87	.59	.50	.50
19	.45	.84	6.68	.69	.87	5.55	.57	.51	.87	.59	.49	.50
20	.45	.70	.06	5.04	5.09	.15	.56	.57	.88	.57	.49	.50
21	3.45	3.66	8.47	4.66	5.89	6.28	4.50	4.54	3.90	3.56	3.50	3.50
22	.45	.61	6.09	.64	.63	.21	.51	.43	.98	.54	.49	.50
23	.45	.73	5.70	5.19	.27	5.70	.51	.23	4.02	.51	.48	.50
24	.45	4.04	7.40	.92	.29	.47	.53	.53	.12	.50	.48	.49
25	.45	3.87	6.01	.34	.17	.71	.65	.39	.12	.50	.50	.46
26	3.45	3.90	6.10	5.12	5.01	5.41	4.58	4.24	4.12	3.50	3.50	3.45
27	.45	.50	5.04	.27	.00	.96	.55	.28	.12	.50	.50	.45
28	.45	4.50	.44	7.99	.30	.89	.48	.58	.12	.49	.50	.45
29	.45	5.11	6.97	5.55	9.12	7.18	.56	.29	.12	.49		.50
30	.45	4.56	5.65	.53	8.33	6.39	.64	.42	.10	.49		.48
31		5.01		.71	7.73		.43		3.85	.49		.46
Mean	3.46	3.77	5.49	5.00	6.24	5.66	4.90	4.48	4.20	3.58	3.50	3.49
Max.	3.52	5.11	8.47	7.99	9.12	7.18	6.19	4.78	4.57	3.80	3.58	3.50
Min.	3.43	3.44	4.11	4.45	4.87	4.98	4.43	4.23	3.75	3.49	3.48	3.45

WATER YEAR 1965 : Max. 9.12 m. Min. 3.43 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.85	0.75	20	42	65	104	89	30	24	5.00	0.95	1.00
2	1.20	0.75	44	31	78	69	63	27	18	4.85	0.95	1.00
3	1.10	0.70	20	29	97	54	52	26	18	4.85	1.80	1.00
4	0.95	0.70	15	23	307	57	46	29	24	4.70	1.30	1.00
5	0.90	0.75	31	28	252	52	45	26	16	4.40	1.20	1.00
6	0.85	0.75	18	29	233	70	46	26	19	4.10	1.20	1.00
7	0.80	0.90	13	30	248	57	49	25	20	3.95	1.00	1.00
8	0.80	4.70	12	22	219	49	52	23	22	3.65	1.20	1.00
9	0.80	3.95	48	25	221	40	46	22	19	3.50	1.20	1.00
10	0.80	2.75	57	23	99	64	38	20	19	3.50	1.10	1.00
11	0.75	1.80	62	27	68	53	34	24	21	3.35	1.00	1.00
12	0.65	1.70	54	27	52	51	54	20	22	3.05	1.00	1.00
13	0.65	1.10	33	26	43	52	49	20	19	2.90	1.00	1.00
14	0.70	1.10	35	22	39	50	34	20	17	2.75	1.00	1.00
15	0.75	1.00	40	20	34	92	31	19	18	2.45	1.00	1.00
16	0.75	0.95	43	20	38	50	29	17	4.25	2.00	1.00	1.00
17	0.70	1.00	78	38	34	47	27	25	5.80	2.00	1.00	1.00
18	0.75	6.40	67	35	35	37	24	25	6.40	1.90	1.00	1.00
19	0.75	5.80	115	28	33	60	24	22	6.40	1.90	0.95	1.00
20	0.75	3.50	83	40	42	44	24	24	6.60	1.70	0.95	1.00
21	0.75	2.90	246	27	75	94	22	23	7.00	1.60	1.00	1.00
22	0.75	2.15	84	26	63	90	22	20	8.60	1.40	0.95	1.00
23	0.75	3.95	66	46	49	66	22	15	9.50	1.10	0.90	1.00
24	0.75	10	159	76	50	57	23	23	12	1.00	0.90	0.95
25	0.75	6.40	80	52	45	67	26	19	12	1.00	1.00	0.80
26	0.75	7.00	85	43	38	54	24	15	12	1.00	1.00	0.75
27	0.75	9.00	40	49	38	78	23	16	12	1.00	1.00	0.75
28	0.75	22	56	202	80	75	21	24	12	0.95	1.00	0.75
29	0.75	42	132	60	325	145	24	16	12	0.95		1.00
30	0.75	24	64	59	232	99	26	20	11	0.95		0.90
31		38		67	182		20		6.00	0.95		0.80
Total	24	208	1,900	1,272	3,366	1,977	1,109	676	439	78	30	30
Mean	0.79	6.65	63	41	108	66	36	22	14	2.53	1.06	1.00
Max.	1.20	42	246	202	325	145	89	30	24	5.00	1.80	1.00
Min.	0.65	0.70	12	20	33	37	20	15	4.25	0.95	0.90	0.75
Runoff - mcm.	2.074	17.971	164.160	109.901	290.822	170.813	95.818	58.406	37.930	6.739	2.592	2.592

WATER YEAR 1965 : Max. 325 Min. 0.65 Mean 30 Annual Runoff 959.818 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 29	06.00	9.87	467	Aug. 4	06.00	9.77	444

WATER YEAR 1965
NAKHON NAYOK RIVER BASIN

Khlong Nang Rong at Nang Rong, Nakhon Nayok (Ny. 1A)

Location: Lat. 14° - 19' - 30" N., Long 101° - 19' - 24" E., on the left bank, at Tambol Hintang Amphoe Muang Nakhon Nayok, being 2.5 kilometers downstream from the confluence with Khlong Madua.

Drainage Area: 75 sq. km. referred to AMS. Map. 1:50,000

Type of Gage: Staff gage.

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

Bench Mark:
Location: Located on the left bank near the upper gage.
Elevation: + 4.295 m. (A.D.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings, it might or might not be adequate for the mean daily value, particularly during flood.

Period of Available Gage Records: 1958 - 64, 1965 to date.

Rating Operation:
Period of Rating: 1958 - 59.
Rated by Float: -
Rated by Current Meter: 1958 - 59.

Stability of Channel Regimes: Stable.

Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as poor during flood. Stage-discharge relationship is defined by discharge measurements made during 1958 - 59. There is no diversion above the station.

Remark: Gage height began to record on Jun. 1, 1965.

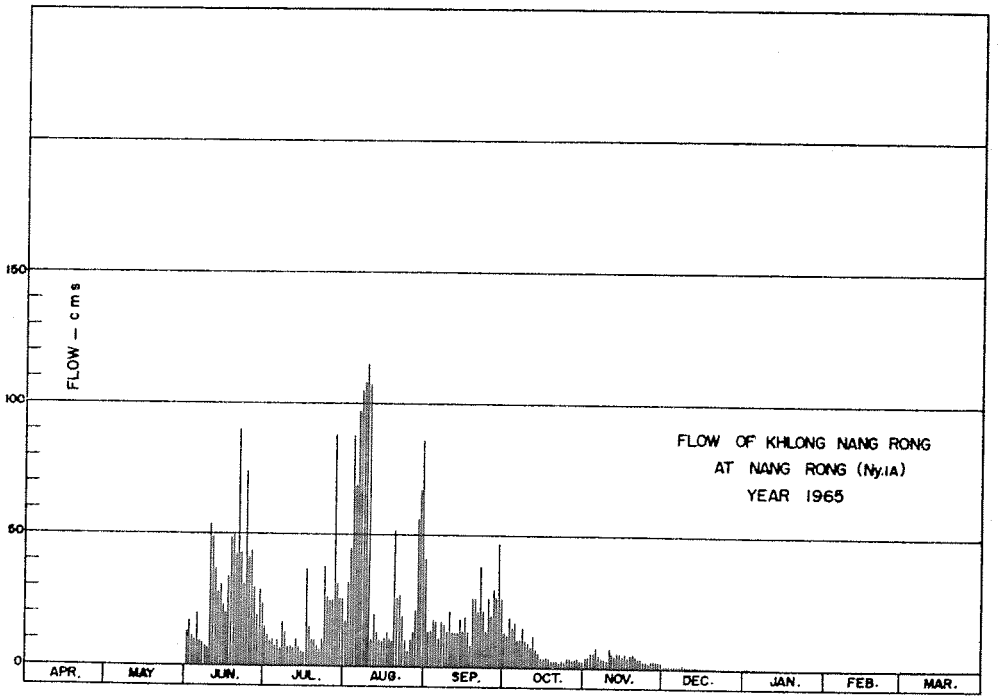
DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			13	15	17	38	13	3.78	0.60	0.18	0.00	0.07
2			17	12	32	13	12	3.78	0.68	0.17	0.00	0.06
3			11	9.38	45	13	19	5.53	0.92	0.14	0.00	0.06
4			9.92	10	88	18	15	5.72	0.76	0.11	0.00	0.05
5			20	7.64	69	17	17	7.64	0.96	0.09	0.00	0.04
6			9.11	10	97	10	10	5.34	0.96	0.07	0.00	0.03
7			8.84	6.98	105	17	11	3.78	0.80	0.06	0.00	0.03
8			7.86	17	108	16	15	3.22	1.30	0.06	0.00	0.02
9			6.76	13	115	13	10	2.44	0.96	0.05	0.00	0.01
10			54	7.20	107	21	9.11	7.64	0.68	0.03	0.00	0.01
11			49	7.64	10	13	7.64	5.91	0.76	0.02	0.00	0.00
12			37	6.98	20	13	12	4.58	0.44	0.01	0.00	0.00
13			28	10	13	13	6.76	5.53	0.88	0.00	0.00	0.00
14			31	7.20	10	18	5.53	5.53	0.54	0.00	0.00	0.00
15			23	5.72	9.65	13	3.64	4.20	0.46	0.00	0.00	0.00
16			20	4.77	11	19	3.78	5.34	0.34	0.00	0.00	0.00
17			34	37	13	13	3.78	3.64	0.42	0.00	0.00	0.00
18			49	15	10	7.64	3.22	4.58	0.34	0.00	0.00	0.00
19			50	10	9.65	26	2.44	5.15	0.30	0.00	0.00	0.00
20			42	10	52	26	2.44	4.20	0.26	0.00	0.00	0.00
21			90	7.64	26	21	2.56	3.64	0.22	0.00	0.00	0.00
22			43	6.10	27	38	1.96	3.78	0.22	0.00	0.00	0.00
23			31	10	19	22	2.44	2.44	0.20	0.00	0.00	0.00
24			74	38	10	13	2.08	2.44	0.17	0.00	0.00	0.00
25			41	26	5.53	26	3.64	1.84	0.15	0.00	0.00	0.00
26			44	25	10	19	3.78	2.94	0.15	0.00	0.00	0.00
27			30	25	13	29	2.80	2.94	0.14	0.00	0.00	0.00
28			19	88	21	26	3.22	2.94	0.13	0.00	0.00	0.00
29			29	31	56	47	3.64	2.44	0.12	0.00		0.00
30			24	26	67	26	2.80	2.44	0.10	0.00		0.00
31				26	86		2.44		0.08			0.00
Total			945	531	1,282	592	314	125	15	0.99	0.00	0.00
Mean			31	17	41	20	10	4.18	0.48	0.03	0.00	0.00
Max.			90	88	115	47	19	7.64	1.30	0.18	0.00	0.07
Min.			6.76	4.77	5.53	7.64	1.96	1.84	0.08	0.00	0.00	0.00
Runoff - mcm.			81.648	45.878	110.765	51.149	27.130	10.800	1.296	0.085	0.000	0.033

WATER YEAR 1965 : Max. 115 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 9	18.00	13.55	119	Jun. 21	06.00	13.49	111



GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			12.16	12.22	12.28	12.67	12.17	11.77	11.40	11.18	10.89	11.07
2			.26	.14	.57	.15	.12	.77	.43	.17	.88	.06
3			.11	.04	.77	.15	.32	.87	.48	.14	.87	.06
4			.06	.07	13.29	.30	.23	.88	.44	.11	.86	.05
5			.35	11.97	.09	.27	.27	.97	.49	.09	.85	.04
6			12.03	12.07	13.37	12.08	12.07	11.86	11.49	11.07	10.84	11.03
7			.02	11.94	.44	.27	.10	.77	.45	.06	.83	.03
8			11.98	12.27	.47	.25	.22	.73	.55	.06	.82	.02
9			.93	.15	.52	.16	.07	.67	.49	.05	.81	.01
10			12.90	11.95	.46	.37	.03	.97	.42	.03	.80	.01
11			12.83	11.97	12.07	12.17	11.97	11.89	11.44	11.02	10.79	11.00
12			.65	.94	.35	.18	12.12	.82	.32	.01	.78	.00
13			.51	12.07	.17	.18	11.93	.87	.47	.00	.77	10.99
14			.55	11.95	.07	.29	.87	.87	.37	10.99	.76	.98
15			.41	.88	.05	.17	.76	.80	.33	.98	.75	.98
16			12.34	11.83	12.11	12.31	11.77	11.86	11.27	10.97	10.74	10.97
17			.61	12.65	.17	.17	.77	.76	.31	.95	.96	.97
18			.83	.22	.07	11.97	.73	.82	.27	.94	.95	.96
19			.84	.07	.05	12.47	.67	.85	.25	.93	.94	.95
20			.73	.08	.87	.47	.67	.80	.23	.93	.93	.95
21			13.31	11.97	12.46	12.37	11.68	11.76	11.21	10.92	10.92	10.94
22			12.75	.90	.48	.67	.63	.77	.21	.91	.91	.94
23			.56	12.07	.33	.39	.67	.67	.20	.90	.90	.93
24			13.14	.67	.07	.17	.64	.67	.17	.89	.89	.93
25			12.71	.47	11.87	.47	.76	.62	.15	.88	.88	.92
26			12.76	12.45	12.07	12.32	11.77	11.71	11.15	10.86	10.87	10.92
27			.53	.45	.17	.52	.70	.71	.14	.86	.86	.91
28			.32	13.29	.37	.46	.73	.71	.13	.85	.85	.91
29			.52	12.55	.92	.80	.76	.67	.12	.84		.90
30			.42	.47	13.06	.47	.70	.67	.10	.83		.90
31				.47	.27		.67		.08	.82		.89
Mean			12.50	12.20	12.59	12.32	11.89	11.78	11.31	10.97	10.85	10.94
Max.			13.31	13.29	13.52	12.80	12.32	11.97	11.55	11.18	10.96	11.07
Min.			11.93	11.83	11.87	11.97	11.63	11.62	11.08	10.82	10.74	10.89

WATER YEAR 1965 : Max. 13.52 m. Min. - m.

WATER YEAR 1965
TONLE SAP RIVER BASIN

Huai Phrom Hot at Aranyaprathet, Prachin Buri (TL. 1)

Location: Lat. 13° - 43' - 12" N., Long 102° - 28' - 06" E., on the left bank near the bridge of the highway to Aranyaprathet, being about 7 kilometers west of Aranyaprathet.

Drainage Area: 571 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
Location:
Elevation:

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings, approximately representing its mean daily value.

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, shifting adjustment is negligible in flow computation for deviations of rating points from the rating curve are small.

Overbank Flow Conditions: Flow begins to overtop the banks at + 5.80 m. (A.D.). Overbank flow is measured by current meter and is included in flow computation.

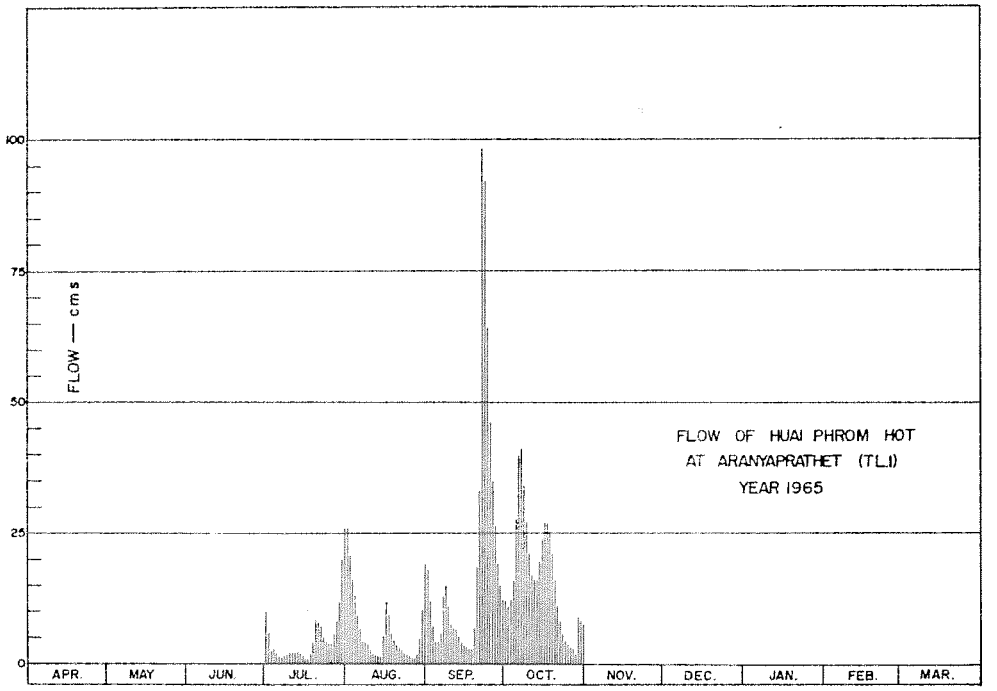
General Description: Records are classified as fair. Stage-discharge relationship is defined by discharge measurements made in 1964 - 65. There is no diversion above this station.

Remark: No gage height records for Apr., May., June, Nov., Dec., Feb., and Mar.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				3.42	4.83	4.15	3.64			1.66		
2				2.93	.45	3.63	.54			.62		
3				.40	3.98	.10	.61			.58		
4				.49	.68	2.74	.96			.55		
5				.28	.35	.67	5.00			.53		
6				2.11	3.04	2.94	5.76			1.53		
7				.11	2.74	3.75	.78			.57		
8				.12	.71	.86	.43			.55		
9				.18	.64	.50	4.95			.55		
10				.30	.46	.17	.47			.52		
11				2.31	2.34	3.09	4.06			1.45		
12				.30	.28	.04	3.96			.42		
13				.38	.22	2.88	4.00			.39		
14				.27	.17	.71	.31			.39		
15				.14	.85	.60	.74			.38		
16				2.01	3.66	2.54	4.91			1.40		
17				.01	.38	.50	.94			.40		
18				.23	2.96	.49	.77			.39		
19				.73	.79	3.06	.44			.39		
20				3.27	.68	4.29	3.98			.38		
21				3.24	2.58	5.39	3.56			1.38		
22				.14	.47	6.47	.23			.38		
23				2.84	.36	.44	2.90			.37		
24				.75	.33	.23	.72			.37		
25				.66	.28	5.94	.63			.37		
26				2.67	2.14	5.50	2.54			1.38		
27				.95	.11	4.84	.49			.39		
28				3.26	.33	.30	.18			.39		
29				.76	.82	3.92	3.31			.40		
30				4.38	3.40	.66	.24			.39		
31				.83	4.26		.15			.38		
Mean				2.72	2.91	3.85	3.94			1.45		
Max.				4.83	4.83	6.47	5.78			1.66		
Min.				2.01	2.11	2.49	2.18			1.37		

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				10	26	18	12			0.00		
2				5.71	21	12	11			0.00		
3				2.30	16	7.00	12			0.00		
4				2.84	13	4.38	16			0.00		
5				1.74	9.30	3.92	28			0.00		
6				1.23	6.52	5.78	40			0.00		
7				1.23	4.38	13	41			0.00		
8				1.26	4.17	15	34			0.00		
9				1.44	3.74	11	27			0.00		
10				1.80	2.66	7.56	21			0.00		
11				1.85	2.00	6.92	17			0.00		
12				1.80	1.74	6.52	16			0.00		
13				2.20	1.56	5.36	16			0.00		
14				1.71	1.41	4.17	20			0.00		
15				1.32	5.15	3.50	24			0.00		
16				0.93	12	3.14	27			0.00		
17				0.93	9.60	2.90	27			0.00		
18				1.59	5.92	2.84	25			0.00		
19				4.31	4.73	6.68	21			0.00		
20				8.50	3.98	19	16			0.00		
21				8.20	3.38	33	11			0.00		
22				7.32	2.72	98	8.10			0.00		
23				5.08	2.10	92	5.50			0.00		
24				4.45	1.95	64	4.24			0.00		
25				3.86	1.74	46	3.68			0.00		
26				3.92	1.32	35	3.14			0.00		
27				5.85	1.23	26	2.84			0.00		
28				8.40	1.95	19	1.44			0.00		
29				13	4.94	15	8.90			0.00		
30				20	9.80	12	8.20			0.00		
31				26	19		7.40			0.00		
Total				161	205	599	515			0.00		
Mean				5.19	6.61	20	17			0.00		
Max.				26	26	98	41			0.00		
Min.				0.93	1.23	2.84	1.44			0.00		
Runoff - mcm.				13.910	17.712	51.754	44.496			0.000		

WATER YEAR 1965 : Max. 98 Min. 0.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
KHLONG TA NOT RIVER BASIN

Khlong Ta Not at Ban Thap Chum, Chanthaburi (Z. 7)

Location: Lat. 12° - 47' - 56" N., Long 101° - 54' - 32" E., on the right bank, 9 kilometers from the entrance at Nikhom Dong Thap, and 14 kilometers upstream from Nong Khla market, Amphoe Tha Mai, Chanthaburi.

Drainage Area: 1,318 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: Located on the right bank along the measuring line near the station office of Z. 7.
- Elevation: + 8.953 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 which is adequate for its mean daily value.

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. shifting adjustment is negligible in flow computation due to its adequate stability.

Overbank Flow Conditions: Flow begins to overtop left bank at elevation + 9.20 m. (A.D.), overbank flow is measured by current meter, and included in flow computation.

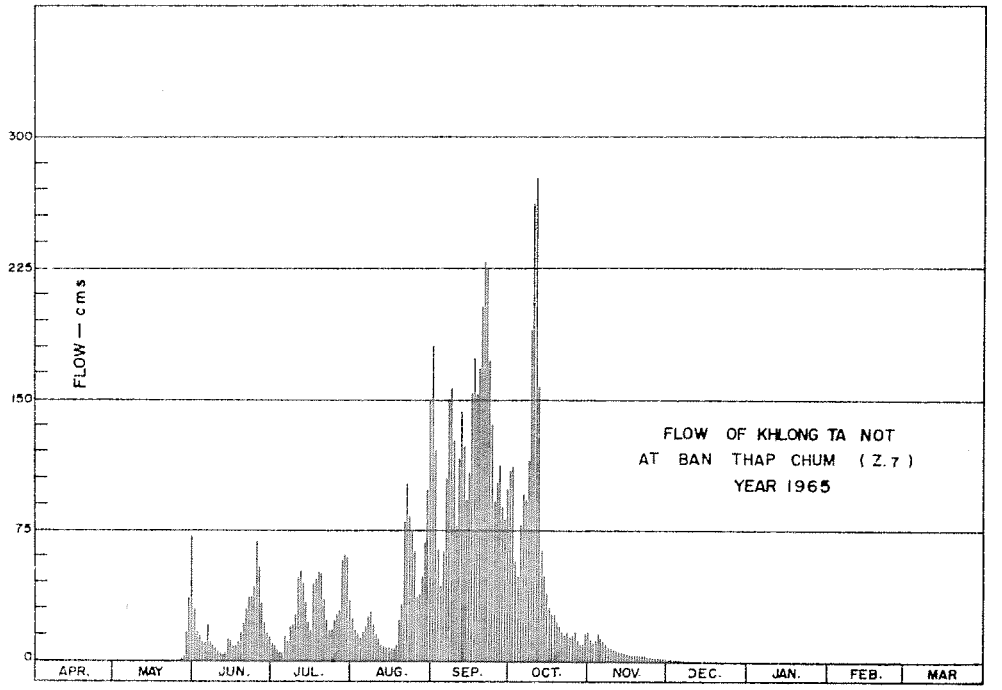
General Description: Records are classified as good. Stage-discharge relationship is defined by discharge measurements made in 1965. There is no diversion above this station.

Remark: No gage height records for Mar. 1966.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.75	2.66	5.16	4.05	4.93	9.39	7.88	4.19	3.08	2.81	2.66	
2	.75	.65	4.46	3.86	.55	8.17	.95	.05	.07	.80	.66	
3	.74	.65	.36	.72	.39	6.52	6.35	.15	.06	.79	.65	
4	.74	.65	.05	.56	.22	5.78	.03	.38	.05	.78	.65	
5	.73	.65	.02	.45	.47	6.39	.89	.17	.03	.77	.67	
6	2.73	2.64	4.76	4.25	4.70	7.90	7.54	4.15	3.02	2.76	2.70	
7	.72	.64	.13	.03	.98	8.85	.44	.00	.01	.75	.67	
8	.72	.67	.00	.68	5.11	.94	8.02	3.87	.00	.75	.67	
9	.71	.69	3.83	.76	4.74	.29	9.53	.77	2.99	.75	.66	
10	.71	.67	.57	5.06	.43	7.01	10.40	.70	.98	.75	.66	
11	2.71	2.72	3.47	6.00	4.18	8.06	10.53	3.63	2.97	2.74	2.66	
12	.70	.68	.42	.13	.00	.69	8.99	.57	.97	.73	.65	
13	.71	.68	.58	5.86	3.86	.23	6.51	.51	.96	.73	.65	
14	.71	.67	4.18	.36	.77	7.44	6.03	.47	.95	.73	.65	
15	.71	.67	.12	4.79	.82	.88	5.63	.43	.94	.72	.65	
16	2.71	2.66	3.85	4.50	3.69	8.91	5.26	3.41	2.93	2.71	2.64	
17	.71	.66	.90	5.83	.76	9.26	.07	.40	.93	.70	.64	
18	.71	.66	4.11	.95	.93	8.89	.03	.39	.92	.70	.63	
19	.71	.67	.47	6.14	4.96	9.18	4.85	.36	.91	.69	.63	
20	.71	.67	.84	.11	5.36	.71	.65	.34	.91	.69	.62	
21	2.70	2.66	5.50	5.47	7.07	10.02	4.45	3.31	2.90	2.68	2.62	
22	.69	.68	.53	4.84	.69	9.99	.31	.30	.89	.68	.62	
23	.70	.69	.55	.52	.15	.24	.46	.26	.88	.67	.63	
24	.69	.71	.83	.52	6.88	8.53	.24	.25	.88	.67	.64	
25	.68	.79	6.70	.88	.49	7.45	.32	.23	.87	.67	.63	
26	2.67	2.90	6.20	5.02	5.51	7.72	4.48	3.19	2.85	2.67	2.63	
27	.67	3.03	5.28	.16	.57	.94	.15	.16	.85	.66	.65	
28	.67	.39	4.78	6.38	6.03	.33	.01	.13	.85	.66	.65	
29	.66	4.79	.38	.45	.68	.10	3.99	.11	.84	.66		
30	.66	5.57	.25	.42	7.60	.61	4.40	.09	.83	.65		
31		6.78		5.43	8.81		.47		.82	.66		
Mean	2.71	3.01	4.56	5.01	5.27	8.21	6.06	3.56	2.91	2.74	2.67	
Max.	2.75	6.78	6.70	6.45	8.81	10.02	10.53	4.38	3.08	2.81	2.70	
Min.	2.66	2.64	3.42	3.45	3.76	5.78	3.99	3.09	2.82	2.65	2.62	

WATER YEAR 1965 : Max. 10.53 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.40	0.26	29	11	25	180	109	13	1.42	0.52	0.26	
2	0.40	0.25	17	8.60	18	121	112	11	1.38	0.50	0.26	
3	0.38	0.25	15	7.20	16	64	58	12	1.34	0.48	0.25	
4	0.38	0.25	11	5.60	18	43	49	16	1.30	0.46	0.25	
5	0.36	0.25	10	4.50	17	60	75	13	1.22	0.44	0.27	
6	0.36	0.24	21	14	20	110	96	12	1.18	0.42	0.30	
7	0.34	0.24	12	11	26	150	92	10	1.14	0.40	0.27	
8	0.34	0.27	10	20	28	155	115	8.70	1.10	0.40	0.27	
9	0.32	0.29	8.30	21	21	126	190	7.70	1.06	0.40	0.26	
10	0.32	0.27	5.70	27	16	78	262	7.00	1.02	0.40	0.26	
11	0.32	0.34	4.70	48	13	116	276	6.30	0.98	0.38	0.26	
12	0.30	0.28	4.20	52	10	143	157	5.70	0.98	0.36	0.25	
13	0.32	0.28	5.80	45	8.60	123	63	5.10	0.94	0.36	0.25	
14	0.32	0.27	13	33	7.70	92	49	4.70	0.90	0.36	0.25	
15	0.32	0.27	12	22	8.20	109	39	4.30	0.86	0.34	0.25	
16	0.32	0.26	8.50	17	6.90	153	31	4.10	0.82	0.32	0.24	
17	0.32	0.26	9.00	44	7.60	173	27	4.00	0.82	0.30	0.24	
18	0.32	0.26	12	47	9.37	152	27	3.90	0.78	0.30	0.23	
19	0.32	0.27	17	52	25	168	23	3.60	0.74	0.29	0.23	
20	0.32	0.27	23	51	33	202	20	3.40	0.74	0.29	0.22	
21	0.30	0.26	36	35	80	227	17	3.10	0.70	0.28	0.22	
22	0.29	0.28	37	23	102	224	15	3.30	0.68	0.28	0.22	
23	0.30	0.29	37	18	82	171	17	2.60	0.66	0.27	0.23	
24	0.29	0.32	44	18	74	136	14	2.50	0.66	0.27	0.24	
25	0.28	0.48	69	24	63	92	15	2.30	0.64	0.27	0.23	
26	0.27	0.70	54	26	36	103	17	1.95	0.60	0.27	0.23	
27	0.27	1.22	32	29	38	112	12	1.80	0.60	0.26	0.25	
28	0.27	3.90	22	59	49	88	10	1.65	0.60	0.26	0.25	
29	0.26	22	16	61	68	81	10	1.55	0.58	0.26		
30	0.26	38	14	61	98	98	16	1.46	0.56	0.25		
31		71		35	148		17		0.54	0.26		
Total	9.57	144	609	930	1,167	3,850	2,030	178	27	11	6.94	
Mean	0.32	4.64	20	30	38	128	65	5.92	0.87	0.35	0.25	
Max.	0.40	71	69	61	148	227	276	16	1.42	0.52	0.30	
Min.	0.26	0.24	4.20	4.50	7.60	43	10	1.46	0.54	0.25	0.22	
Runoff - MCM.	0.827	12.442	52.618	80.352	100.829	332.640	175.392	15.379	2.333	0.950	0.600	

WATER YEAR 1965 : Max. 276 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 11	06.00	10.66	291	Sept. 22	06.00	10.09	233

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Tha Pha, Ratchaburi (K. 1)

Location: Lat. 13° – 50' – 25" N., Long 99° – 52' – 09" E., the gage is located in Tha Pha Canal about 30 meters upstream from Tha Pha Regulator, and about 50 meters from the Mae Klong river Amphoe Ban Pong, Ratchaburi.

Drainage Area: Flood Plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.00 m. (M.S.L.)

Bench Mark: BM. – R.I.D.
Location: On the abutment of Tha Pha Regulator at the left bank of the canal.
Elevation: + 12.500 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1914 – 27, 1933 – 44, 1948 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, shifting adjustment is negligible due to its adequacy in channel stability.

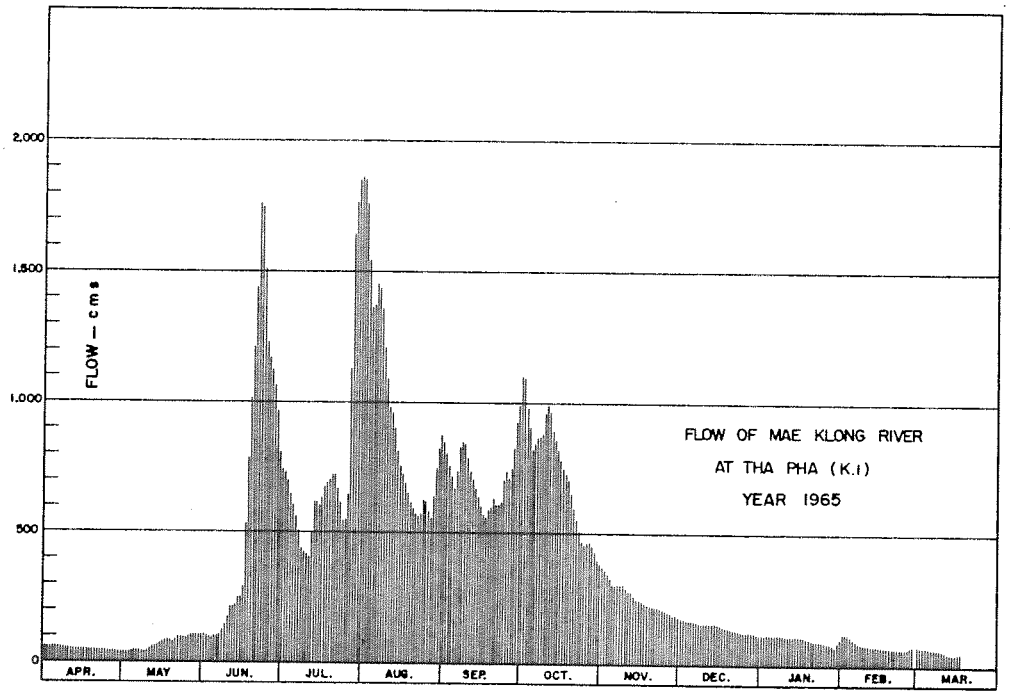
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Discharge measurements were made in the Mae Klong river at about 50 meters downstream from the mouth of Tha Pha canal. Upstream State diversion of about 3,200 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.10	5.00	5.51	8.28	11.69	8.68	9.58	6.85	5.93	5.56	5.58	5.22
2	.10	.00	.47	.29	.28	.51	.56	.81	.92	.55	.60	.20
3	.10	.00	.45	.14	10.75	.37	.23	.76	.90	.55	.55	.19
4	.09	.00	.42	7.91	.37	.20	8.88	.69	.89	.54	.48	.18
5	.09	.01	.52	.76	.44	.06	.61	.56	.88	.54	.44	.18
6	5.09	5.04	5.52	7.58	10.64	8.33	8.72	6.58	5.86	5.54	5.36	5.16
7	.08	.05	.51	.31	.56	.67	.81	.57	.83	.53	.34	.15
8	.08	.04	.53	.16	.20	.72	.79	.57	.82	.53	.31	.13
9	.07	.02	.74	.11	9.73	.70	.85	.58	.80	.53	.29	.12
10	.07	.03	.84	.02	.35	.54	9.10	.48	.80	.52	.26	.10
11	5.05	5.10	6.15	6.99	9.16	8.36	9.21	6.46	5.79	5.52	5.25	5.09
12	.04	.12	.15	7.37	.10	.19	.10	.39	.79	.51	.25	.05
13	.04	.18	.16	.88	8.87	.10	8.82	.34	.78	.51	.25	.03
14	.05	.25	.28	.88	.57	7.95	.72	.30	.77	.51	.24	.02
15	.04	.25	.34	.81	.39	.83	.56	.29	.76	.51	.23	.01
16	5.04	5.27	6.55	7.97	8.26	7.68	8.40	6.25	5.75	5.49	5.22	5.01
17	.04	.30	7.40	8.14	.11	.64	.34	.22	.74	.48	.20	.03
18	.04	.35	8.30	.18	7.98	.77	.26	.20	.73	.46	.20	.04
19	.03	.30	9.23	.20	.86	.80	.10	.20	.70	.45	.19	.03
20	.03	.29	10.39	.33	.74	.92	7.82	.19	.68	.43	.19	.03
21	5.03	5.40	11.01	8.23	7.68	7.82	7.74	6.17	5.67	5.41	5.18	5.02
22	.02	.44	.47	.01	.66	.83	.55	.15	.66	.39	.18	.01
23	.02	.44	.42	7.80	.70	.85	.40	.13	.64	.38	.17	.01
24	.02	.43	10.77	.56	.89	8.20	.24	.11	.62	.36	.16	.00
25	.02	.43	9.97	.63	.86	.32	.21	.09	.61	.34	.15	.00
26	5.01	5.48	9.70	8.90	7.69	8.20	7.27	6.04	5.60	5.32	5.16	5.00
27	.01	.50	.60	10.26	.60	.20	.26	.01	.59	.30	.25	.01
28	.01	.50	.43	11.30	.90	.56	.19	5.99	.58	.28	.24	.01
29	.00	.48	8.99	.59	8.29	.91	.07	.97	.58	.27		.00
30	.00	.49	.47	.71	.62	9.30	6.97	.94	.56	.35		.01
31		.50		.75	.81		.91		.56	.48		.01
Mean	5.04	5.24	7.64	8.38	8.92	8.24	8.23	6.32	5.73	5.45	5.28	5.06
Max.	5.10	5.50	11.47	11.75	11.69	9.30	9.58	6.85	5.93	5.56	5.60	5.22
Min.	5.00	5.00	5.42	6.99	7.60	7.64	6.91	5.94	5.56	5.27	5.15	5.00

WATER YEAR 1965 : Max. 11.75 m. Min. 5.00 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55	44	110	726	1,837	838	1,102	367	177	118	121	70
2	55	44	104	729	1,682	791	1,096	358	176	116	124	67
3	55	44	101	688	1,490	751	996	347	172	116	116	66
4	54	44	97	629	1,355	704	894	331	170	114	105	65
5	54	45	111	590	1,379	667	819	302	169	114	100	65
6	54	48	111	543	1,450	740	850	306	166	114	88	62
7	53	49	110	474	1,422	835	875	304	161	113	86	61
8	53	48	113	439	1,300	850	869	304	159	113	81	59
9	52	46	146	427	1,150	844	957	306	159	113	79	57
10	52	47	162	407	1,032	799	957	285	159	111	75	55
11	49	55	218	400	975	749	990	281	154	111	73	54
12	48	57	218	489	957	701	957	266	154	110	73	49
13	48	65	220	621	892	678	878	256	153	110	73	47
14	49	73	244	621	808	639	850	248	151	110	72	46
15	48	73	256	603	757	608	805	246	150	110	71	45
16	48	76	299	644	721	569	760	238	148	107	70	45
17	48	80	497	688	681	558	743	232	146	105	67	47
18	46	87	732	699	646	592	721	228	145	102	67	48
19	47	80	996	704	616	600	678	228	140	101	66	47
20	47	79	1,362	740	584	631	605	226	137	98	66	47
21	47	94	1,584	712	569	605	584	222	135	95	65	46
22	46	100	1,754	655	564	607	535	218	134	93	65	45
23	46	100	1,735	600	574	613	497	214	130	91	63	45
24	46	98	1,497	538	623	704	458	210	127	88	62	44
25	46	98	1,226	556	616	738	450	206	126	86	61	44
26	45	105	1,140	900	571	704	465	197	124	83	62	44
27	45	108	1,108	1,319	548	704	462	192	122	80	73	45
28	45	108	1,056	1,689	626	805	446	188	121	77	72	45
29	44	105	925	1,799	729	903	418	185	121	76		44
30	44	107	779	1,845	822	1,017	395	179	118	87		45
31		108		1,860	875		381		118	105		45
Total	1,471	2,315	19,011	24,334	28,851	21,544	22,422	7,670	4,522	3,167	2,196	1,594
Mean	49	75	634	785	931	718	723	256	146	102	78	51
Max.	55	108	1,754	1,860	1,837	1,017	1,102	367	177	118	124	70
Min.	44	44	97	400	548	558	381	179	118	76	61	44
Runoff - MCM.	127.094	200.016	3,543.650	2,102.458	2,492.726	1,861.402	1,937.261	662.688	190.701	273.629	189.734	137.722

WATER YEAR 1965 : Max. 1,860 Min. 44 Mean 381 Annual Runoff 12,017.981 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 31	18.00	11.76	1,864	Jun. 22	18.00	11.55	1,784

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Muang Ratchaburi (K. 2)

Location: Lat. 13° – 32' – 20" N., Long 99° – 49' – 30" E., on the right bank of the river near the children's playground, and is about 100 meters upstream from Chulalongkorn railway bridge, Amphoe Muang, Ratchaburi.

Drainage Area: Flood Plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: – 1.00 m. (M.S.L.)

Bench Mark:
Location: On the right bank of the river near the gage site.
Elevation: + 3.690 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1915 – 30, 1932 to date.

Rating Operation:
Period of Rating: 1963, 1965 to date.
Rated by Float: –
Rated by Current Meter: 1963, 1965 to date.

Stability of Channel Regimes: Rather unstable, stage–discharge relationships are subject to tidal effect, no shifting adjustment made for flow computation due to insufficient field data.

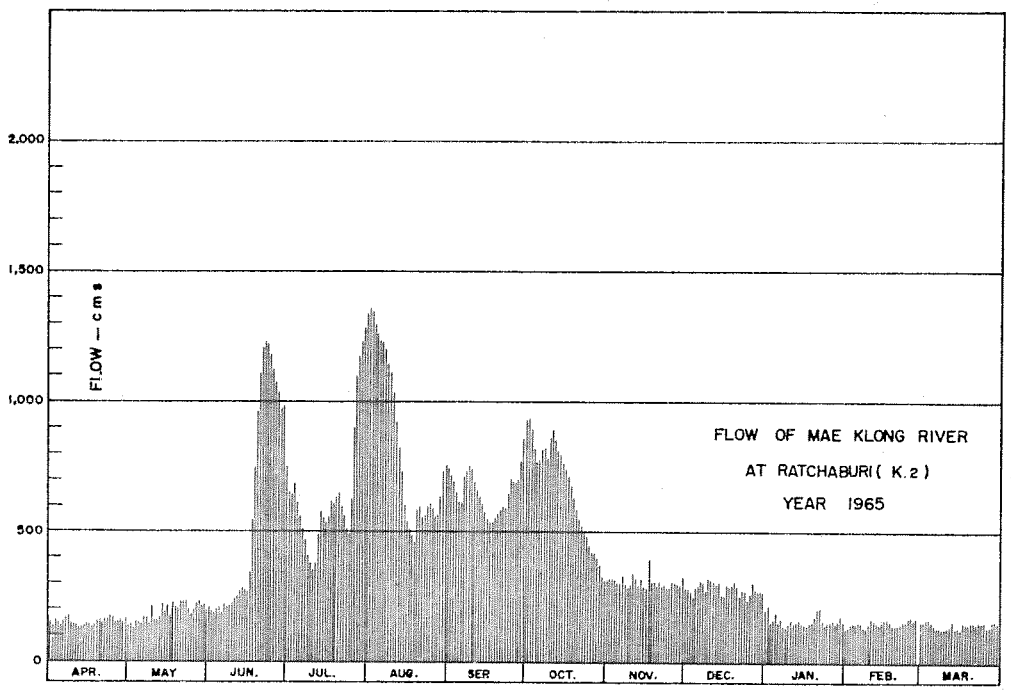
Overbank Flow Conditions: No overbank flow.

General Description: Stage record is classified as good, discharge record fair during high flow and poor during low flow, i.e., for water surface elevation below + 1.20 m. (M.S.L.). Upstream state diversion is made of about 6,200 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.22	0.19	0.65	2.64	4.25	2.68	3.18	1.10	0.90	0.17	0.13	0.28
2	.11	.22	.54	.38	.30	.60	.20	.12	.95	.61	.19	.28
3	.28	.12	.49	.33	.28	.48	.15	.12	.89	.27	.23	.34
4	.23	.28	.59	.49	.18	.40	.00	.09	.79	.31	.27	.35
5	.15	.25	.63	.25	.03	.25	2.72	.05	.98	.46	.24	.28
6	0.25	0.21	0.48	2.04	3.99	2.22	2.73	1.03	1.01	0.28	0.28	0.19
7	.33	.39	.67	1.88	.97	.54	.87	.16	.09	.32	.28	.09
8	.38	.36	.63	.69	.90	.63	.90	.03	.01	.19	.12	.13
9	.22	.22	.59	.47	.74	.68	.75	0.99	0.89	.16	.19	.14
10	.17	.61	.72	.36	.68	.65	.89	1.03	1.12	.27	.27	.13
11	0.16	0.28	0.78	1.26	3.50	2.50	3.08	1.19	1.10	0.31	0.35	0.17
12	.11	.31	.85	.42	.18	.43	.05	.09	.07	.23	.29	.17
13	.13	.35	.98	.82	2.90	.28	2.85	.00	.02	.30	.28	.32
14	.15	.63	.99	2.12	.74	.18	.83	.10	.10	.31	.19	.12
15	.21	.49	.92	.04	.24	.11	.72	0.99	0.82	.21	.28	.18
16	0.20	0.63	0.93	1.97	2.00	2.00	2.64	0.96	0.83	0.24	0.36	0.08
17	.11	.41	1.19	2.03	1.87	1.98	.58	1.41	1.03	.20	.36	.27
18	.20	.69	2.09	.28	.78	.98	.48	.04	0.99	.27	.21	.23
19	.28	.55	.67	.25	.65	2.04	.35	.08	1.03	.27	.19	.25
20	.29	.53	3.25	.29	2.14	.10	.18	0.99	1.07	.31	.18	.26
21	0.24	0.71	3.75	2.38	2.18	2.13	2.05	1.06	0.98	0.60	0.20	0.28
22	.32	.72	.94	.20	.06	.18	1.93	.00	.81	.59	.22	.24
23	.32	.72	.99	.02	.06	.18	.89	.02	.94	.34	.28	.27
24	.38	.55	.97	1.86	.20	.27	.78	0.95	.91	.20	.29	.25
25	.34	.40	.81	.76	.25	.52	.60	.99	.73	.29	.34	.30
26	0.24	0.56	3.69	2.39	2.15	2.49	1.52	1.04	0.83	0.28	0.39	0.18
27	.27	.68	.56	3.31	1.98	.48	.50	.04	1.04	.29	.30	.17
28	.31	.70	.44	.74	2.11	.55	.40	.03	0.93	.23	.39	.30
29	.23	.61	.32	.86	.35	.75	.30	.02	.90	.30		.29
30	.33	.66	2.97	4.03	.62	.99	.15	.13	.90	.39		.25
31		.50		.12	.70		.08		.90	.25		.28
Mean	0.23	0.46	1.90	2.33	2.87	2.37	2.36	1.06	0.95	0.30	0.26	0.22
Max.	0.38	0.72	3.99	4.12	4.30	2.99	3.20	1.41	1.12	0.61	0.39	0.35
Min.	0.11	0.12	0.48	1.26	1.65	1.98	1.08	0.95	0.73	0.16	0.12	0.08

WATER YEAR 1965 : Max. 4.30 m. Min. 0.08 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	142	137	218	741	1,337	754	927	315	269	134	128	153
2	125	142	198	659	1,357	728	934	320	280	211	137	153
3	153	126	189	644	1,349	690	916	320	267	151	144	163
4	144	153	207	693	1,309	665	862	313	246	158	151	164
5	131	147	215	612	1,249	612	767	303	287	184	146	153
6	147	141	187	558	1,233	611	770	298	293	153	153	137
7	161	171	222	513	1,225	709	817	329	313	159	153	121
8	170	166	215	462	1,198	738	827	298	293	137	126	128
9	142	142	207	406	1,136	754	776	289	267	133	137	129
10	134	211	232	379	1,112	744	824	298	320	151	151	128
11	133	153	244	354	1,043	696	891	337	315	158	164	134
12	125	158	258	394	927	674	880	313	308	144	154	134
13	128	164	287	496	827	629	810	291	296	156	153	159
14	131	215	289	581	773	599	803	315	315	158	137	126
15	141	189	273	558	617	578	767	289	252	141	153	136
16	139	215	276	538	546	546	741	282	254	146	166	120
17	125	175	337	555	510	540	722	391	298	139	166	151
18	139	226	572	629	486	540	690	301	289	151	141	144
19	153	200	750	612	452	558	650	310	298	151	137	147
20	154	196	952	632	587	575	599	289	308	158	136	149
21	146	230	1,139	659	599	584	560	305	287	209	139	153
22	159	232	1,214	605	563	599	526	291	250	207	142	146
23	159	232	1,233	552	563	599	515	296	278	163	153	151
24	170	200	1,225	515	605	626	486	280	271	139	154	147
25	163	173	1,163	481	612	702	439	289	234	154	163	156
26	146	202	1,116	669	590	693	419	301	254	153	171	136
27	151	224	1,066	974	540	690	414	301	301	154	151	134
28	158	228	1,021	1,136	578	712	389	298	276	144	171	156
29	144	211	977	1,182	650	776	364	296	269	156		154
30	161	220	851	1,249	734	858	327	322	269	171		147
31		191		1,285	760		310		269	147		153
Total	4,374	5,770	17,333	20,323	26,067	19,779	20,722	9,180	8,726	4,870	4,177	4,462
Mean	146	186	578	656	841	659	668	306	281	157	149	144
Max.	170	232	1,233	1,285	1,357	858	934	391	320	211	171	164
Min.	125	126	187	354	452	540	310	280	234	133	126	120
Runoff - mcm.	377.914	498.528	3,230.870	1,755.907	2,252.189	1,708.906	1,790.381	793.352	753.926	420.768	136.893	385.517

WATER YEAR 1965 : Max. 1,357 Min. 120 Mean 399 Annual Runoff 12,595.651 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Aug. 2	18.00	4.32	1,365	Jun. 23	18.00	3.99	1,233

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Ban Mai Regulator, Ratchaburi (VIIK. 2)

Location: Lat. 13° – 41' – 15" N., Long 99° – 50' – 18" E., on the left bank of the river, about 150 meters upstream from Ban Mai Regulator, Amphoe Photharam, Ratchaburi.

Drainage Area: Flood Plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.00 m. (M.S.L.)

Bench Mark:
- Location: On the abutment of Ban Mai Regulator.
- Elevation: + 8.00 m. (M.S.L.)

Gage Reading Frequency: 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 7 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1928 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, shifting adjustment is negligible for flow compitation due to its adequate stability.

Overbank Flow Conditions: No overbank flow

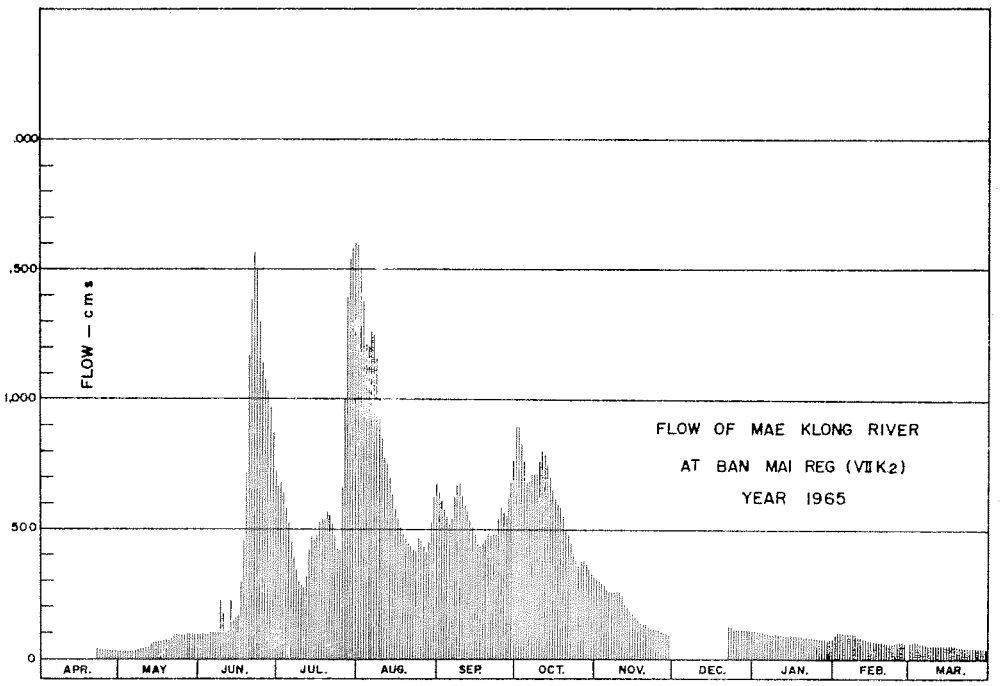
General Description: Records are classified as good. Upstream state diversion is made of about 3,200 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

Remark: Gage height began to record on Apr. 22 and no gage height record for Nov. 30 – Dec. 21, mean daily gage height based on correlation with station at VIIK 3.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		2.47	3.04	5.77	8.36	5.71	6.53	4.24		3.10	3.00	2.77
2		.47	.02	.82	.18	.53	.55	.21		.09	.07	.78
3		.47	.01	.69	7.73	.44	.31	.18		.07	.06	.78
4		.46	.04	.49	.42	.29	.02	.13		.06	.05	.78
5		.46	.08	.21	.40	.17	5.76	.05		.05	.04	.76
6		2.47	3.07	4.94	7.57	5.33	5.84	4.01		3.04	3.03	2.73
7		.49	.05	.61	.51	.67	.93	.01		.03	.03	.69
8		.52	.08	.43	.29	.78	.92	.01		.02	.03	.68
9		.54	.24	.21	6.87	.81	.93	.01		.02	.02	.68
10		.56	.46	.14	.40	.64	6.10	*3.97		.01	2.96	.67
11		2.59	3.04	4.09	6.11	5.48	6.23	*3.90		3.00	2.91	2.65
12		.62	.17	.34	.07	.35	.18	* .86		2.99	.88	.66
13		.71	.24	.91	5.89	.22	5.96	* .80		.98	.85	.65
14		.77	.38	5.00	.62	.14	.85	* .76		.98	.83	.66
15		.77	.44	4.93	.42	.03	.68	* .76		.98	.82	.67
16		2.78	3.58	5.03	5.30	4.89	5.56	*3.72		2.98	2.81	2.68
17		.78	4.21	.23	.17	.83	.49	* .69		.98	.80	.69
18		.82	5.17	.27	.06	.89	.45	* .66		.97	.79	.67
19		.85	6.28	.28	4.99	.95	.27	* .67		.96	.78	.65
20		.82	7.46	.40	.89	5.06	.10	* .64		.95	.77	.63
21		2.91	8.04	5.34	4.83	5.02	5.03	*3.63		2.94	2.75	2.61
22	2.54	3.02	.31	.20	.80	.03	4.90	* .61	3.23	.93	.74	.59
23	.52	.00	.21	4.95	.76	.02	.69	* .60	.21	.92	.73	.59
24	.51	.00	7.81	.77	5.01	.28	.56	* .59	.19	.91	.75	.58
25	.51	2.99	.28	.75	4.96	.46	.51	* .56	.18	.90	.74	.57
26	2.50	3.01	7.05	5.68	4.85	5.36	4.58	*3.52	3.17	2.89	2.80	2.56
27	.50	.05	6.95	7.04	.73	.34	.60	* .51	.16	.88	.80	.56
28	.50	.04	.80	.92	.94	.62	.53	* .50	.15	.87	.77	.55
29	.48	.03	.47	8.28	5.34	.88	.43	* .50	.14	.85		.54
30	.47	.03	.03	.35	.61	6.24	.33		.13	.86		.53
31		.04		.39	.80		.28		.12	.89		.52
Mean		2.81	4.90	5.49	5.96	5.34	5.42			2.97	2.87	2.64
Max.		3.05	8.31	8.39	8.36	6.24	6.55			3.10	3.07	2.78
Min.		2.46	3.01	4.09	4.73	4.83	4.28			2.85	2.73	2.52

WATER YEAR 1965 : Max. 8.39 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		33	99	666	1,585	650	892	304		107	94	65
2		33	97	680	1,503	602	898	298		106	103	67
3		33	95	644	1,322	578	822	292		103	102	67
4		32	99	591	1,203	540	736	282		102	100	67
5		32	104	520	1,196	511	663	266		100	99	64
6		33	103	456	1,260	550	685	258		99	98	61
7		35	100	380	1,237	639	710	258		98	98	56
8		38	104	342	1,156	669	708	258		97	98	55
9		40	226	298	1,008	677	710	258		97	97	55
10		42	159	284	850	631	759	250		95	89	54
11		44	99	274	762	589	798	237		94	82	51
12		48	116	324	750	555	783	229		93	79	53
13		58	226	448	699	523	719	218		91	75	51
14		65	146	470	625	504	688	211		91	73	53
15		65	155	453	573	477	642	211		91	71	54
16		67	179	477	543	444	610	204		91	70	55
17		67	298	525	511	430	591	198		91	69	56
18		71	511	535	484	444	581	193		90	68	54
19		75	813	538	468	458	535	195		89	67	51
20		71	1,218	568	444	484	494	189		87	65	49
21		82	1,444	553	430	475	477	187		86	63	47
22	40	97	1,561	518	423	477	446	184	124	85	62	45
23	38	94	1,516	458	414	475	398	182	121	84	61	45
24	37	94	1,353	416	472	538	370	180	119	82	63	44
25	37	93	1,153	411	460	584	359	175	117	81	62	43
26	36	95	1,071	642	434	558	374	168	116	80	69	42
27	36	100	1,036	1,068	407	553	378	167	115	79	69	42
28	36	99	984	1,396	456	625	363	165	113	77	65	41
29	34	98	872	1,548	553	696	342	165	112	75		40
30	33	98	738	1,580	623	801	322		110	76		39
31		99		1,599	674		312		110	80		38
Total		2,031	16,675	19,662	23,525	16,737	18,165			2,797	2,211	1,604
Mean		68	559	634	759	558	586			90	79	52
Max.		100	1,561	1,599	1,585	801	898			107	103	67
Min.		32	95	274	407	430	312			75	61	38
Runoff - MCM.		175.478	1,440.720	1,698.797	2,032.560	1,446.077	1,569.456			241.661	191.030	138.586

WATER YEAR 1965 : Max. 1,599 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 31	21.00	8.40	1,603	Jun. 22	21.00	8.33	1,571

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Khlong Ta Kod Regulator, Ratchaburi (VIIK. 3)

Location: Lat. 13° – 43' – 41" N., Long 99° – 51' – 10" E., on the left bank of the river, about 35 meters upstream from Khlong Ta Kod Regulator, Amphoe Photharam, Ratchaburi.

Drainage Area: Flood Plain.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 0.00 m. (M.S.L.)

Bench Mark:
- Location: On the abutment of Khlong Ta Kod Regulator.
- Elevation: + 10.00 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1930 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, shifting adjustment is negligible for flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Upstream State diversion is made of about 3,200 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

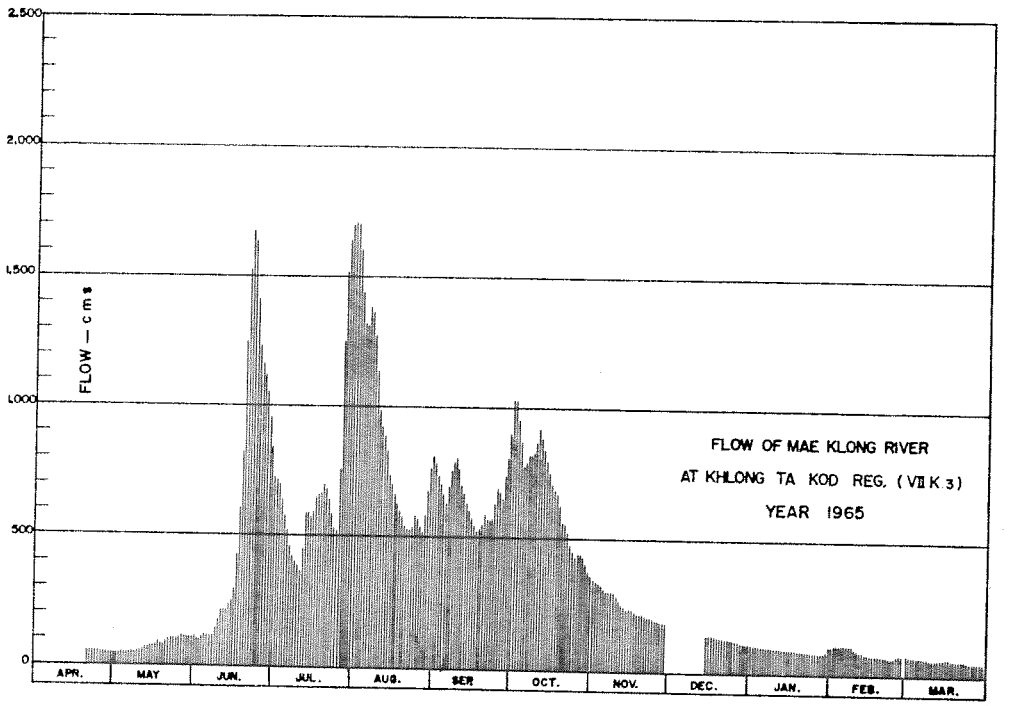
Remark Gage height began to record on Apr. 21, and no gage height record for Nov. 30 – Dec. 14.

* Mean daily gage height based on correlation with station at VII K. 2.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		4.10	4.60	7.01	9.77	7.23	7.98	5.76		4.56	*4.53	4.32
2		.10	.56	.04	.53	.07	.98	.72		.54	* .59	.29
3		.10	.55	6.96	.03	6.99	.74	.69		.53	* .58	.29
4		.12	.59	.75	8.71	.83	.46	.66		.53	* .57	.29
5		.11	.63	.55	.74	.73	.21	.59		.51	* .57	.28
6		4.11	4.62	6.40	8.92	6.93	7.29	5.55		4.50	*4.56	4.26
7		.15	.59	.17	.85	7.18	.37	.56		.50	* .56	.25
8		.15	.63	.02	.61	.29	.36	.55		.49	* .56	.23
9		.14	.79	5.94	.21	.32	.39	.55		.48	* .55	.21
10		.15	.95	.86	7.85	.15	.56	.47		.47	* .49	.19
11		4.20	5.15	5.82	7.62	7.01	7.67	5.40		4.46	*4.44	4.19
12		.22	.16	6.11	.58	6.87	.59	.36		.46	* .41	.19
13		.29	.16	.62	.40	.77	.39	.31		.45	* .38	.20
14		.34	.28	.63	.13	.68	.27	.27		.45	* .36	.20
15		.35	.33	.56	6.98	.58	.14	.27	4.75	.45	* .35	.21
16		4.35	5.46	6.66	6.87	6.45	7.00	5.23	4.75	4.45	*4.34	4.23
17		.37	6.09	.85	.73	.40	6.95	.20	.75	.45	* .33	.23
18		.45	.89	.87	.65	.45	.90	.17	.74	.44	* .32	.19
19		.41	7.74	.89	.57	.50	.74	.18	.72	.43	* .31	.17
20		.38	8.78	.99	.46	.62	.54	.15	.70	.43	* .30	.16
21	4.15	4.48	9.36	6.93	6.43	6.55	6.52	5.14	4.69	4.42	*4.28	4.15
22	.16	.55	.70	.81	.41	.55	.41	.12	.68	.41	* .27	.14
23	.15	.54	.59	.57	.43	.55	.23	.11	.66	.40	.25	.14
24	.14	.54	.14	.37	.61	.82	.15	.10	.65	.39	.27	.12
25	.14	.54	8.54	.40	.58	.96	.06	.07	.64	.37	.26	.11
26	4.14	4.56	8.30	7.12	6.45	6.86	6.12	5.03	4.63	4.37	4.34	4.10
27	.13	.61	.20	8.57	.35	.83	.12	.02	.62	.35	.34	.09
28	.12	.58	.03	9.37	.59	7.11	.06	.01	.60	.35	.33	.09
29	.11	.58	7.69	.69	.91	.36	5.95	.01	.59	.35		.09
30	.11	.56	.24	.76	7.15	.71	.85		.58	.41		.08
31		.59		.79	.32		.80		.57	.52		.08
Mean		4.34	6.44	7.03	7.46	6.87	6.89			4.44	4.40	4.18
Max.		4.61	9.70	9.79	9.77	7.71	7.98			4.56	4.59	4.32
Min.		4.10	4.55	5.82	6.35	6.40	5.80			4.35	4.26	4.08

WATER YEAR 1965 : Max. 9.79 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1		49	116	708	1,699	780	1,034	355		110	105	75
2		49	110	718	1,607	727	1,034	345		106	114	71
3		49	108	693	1,422	702	950	337		105	113	71
4		51	114	629	1,304	653	856	330		105	111	71
5		50	121	570	1,315	623	773	313		102	111	70
6		50	119	527	1,381	683	800	303		100	110	67
7		54	114	463	1,355	763	826	305		100	110	66
8		54	121	421	1,267	799	823	303		98	110	64
9		53	148	400	1,119	810	833	303		97	108	61
10		54	176	380	987	753	889	284		95	98	59
11		60	215	370	909	708	926	268		94	91	59
12		62	217	446	895	665	899	259		94	86	59
13		71	217	591	836	635	833	248		92	82	60
14		77	242	594	747	608	793	240		92	80	60
15		78	253	573	699	579	750	240	141	92	78	61
16		78	282	602	665	541	705	231	141	92	77	64
17		81	440	659	623	527	689	225	141	92	76	64
18		92	671	665	599	541	674	219	140	91	75	59
19		86	950	671	576	556	626	221	136	89	73	57
20		82	1,330	702	544	591	568	215	133	89	72	56
21	54	97	1,544	683	536	570	562	213	131	88	70	54
22	56	108	1,672	647	530	570	530	209	130	86	68	53
23	54	106	1,630	576	536	570	479	207	126	85	66	53
24	53	106	1,463	519	588	650	457	205	124	84	68	51
25	53	106	1,241	527	579	693	432	199	123	81	67	50
26	53	110	1,152	744	541	662	449	191	121	81	77	49
27	52	118	1,115	1,252	513	653	449	189	119	78	77	48
28	51	113	1,052	1,548	582	740	432	187	116	78	75	48
29	50	113	933	1,668	677	823	403	187	114	78		48
30	50	110	783	1,695	753	939	377		113	86		47
31		114		1,706	810		365		111	103		47
Total		2,481	18,649	22,947	27,194	20,114	21,216			2,863	2,448	1,822
Mean		80	622	740	877	670	684			92	87	59
Max.		118	1,672	1,706	1,699	939	1,034			110	114	75
Min.		49	108	370	513	527	365			78	66	47
Runoff – mcm.		214.358	1,611.274	1,982.621	2,349.562	1,740.442	1,833.062			247.363	211.507	157.421

WATER YEAR 1965 : Max. 1,706 Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 31	21.00	9.81	1,714	Jun. 22,	21.00	9.73	1,683

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Tha Muang, Kanchanaburi (K. 4)

Location: Lat. 13° – 57' – 38" N., Long 99° – 38' – 11" E., on the left bank of the river at Wat Si Loha Ratchabamrung, Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 27,220 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 12.00 m. (M.S.L.)

Bench Mark:
Location: At the foot of the tamarind tree infront of Amphoe Tha Muang Office.
Elevation: + 23.781 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 which is adequate to represent its mean daily value.

Period of Available Gage Records: 1939 – 56, 1962 to date.

Rating Operation:
Period of Rating: 1943 – 47, 1962 – 65.
Rated by Float: 1943 – 47.
Rated by Current Meter: 1962 – 65.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation due to its adequate stability.

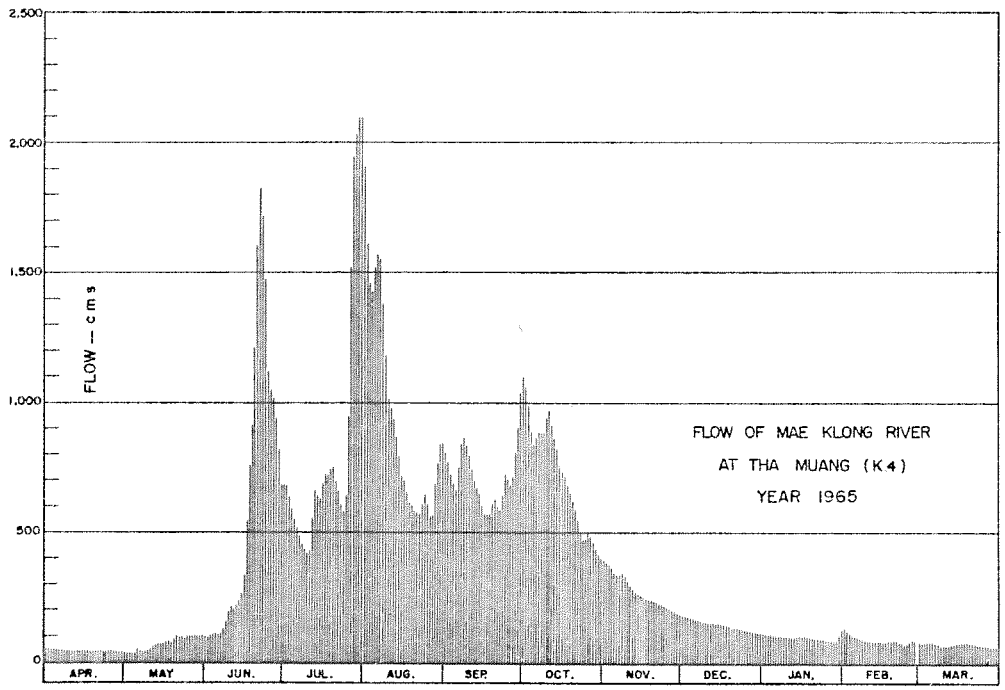
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Upstream state diversion is made of about 2,960 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.69	12.51	13.16	16.13	19.55	16.55	17.46	14.90	13.76	13.27	13.40	12.97
2	.65	.51	.15	.12	18.91	.35	.33	.84	.74	.26	.31	.96
3	.64	.53	.19	15.92	.38	.22	16.98	.82	.72	.25	.24	.96
4	.63	.52	.24	.74	.27	.07	.70	.74	.70	.23	.21	.96
5	.62	.49	.25	.62	.59	.00	.62	.66	.67	.22	.14	.94
6	12.61	12.66	13.23	15.50	18.70	16.42	16.77	14.62	13.65	13.21	13.12	12.89
7	.60	.59	.24	.32	.49	.63	.81	.65	.64	.20	.09	.87
8	.59	.55	.37	.18	.08	.74	.80	.64	.62	.19	.06	.85
9	.58	.57	.61	.12	17.57	.65	.81	.59	.60	.18	.04	.83
10	.57	.62	.82	.03	.20	.48	17.03	.50	.58	.17	.02	.82
11	12.57	12.73	13.98	15.07	17.05	16.31	17.07	14.43	13.57	13.17	13.01	12.81
12	.58	.79	.92	.74	16.96	.17	16.89	.36	.56	.16	.03	.83
13	.59	.88	14.02	16.04	.67	.07	.69	.29	.57	.16	.01	.85
14	.59	.89	.13	15.95	.42	15.97	.54	.27	.56	.16	.00	.85
15	.58	.88	.23	.92	.24	.82	.40	.23	.54	.16	12.99	.88
16	12.58	12.92	14.61	16.14	16.18	15.69	16.29	14.19	13.53	13.16	12.98	12.86
17	.59	.98	15.76	.27	.00	.68	.26	.16	.52	.15	.99	.83
18	.58	.98	16.41	.22	15.85	.68	.13	.14	.50	.14	13.00	.81
19	.59	.92	17.50	.31	.83	.85	15.95	.12	.47	.14	12.99	.79
20	.59	13.01	18.45	.37	.74	.91	.85	.10	.46	.13	.97	.78
21	12.61	13.20	18.97	16.18	15.71	15.77	15.78	14.08	13.45	13.11	12.95	12.77
22	.61	.13	19.26	.04	.68	.75	.54	.06	.42	.10	.93	.75
23	.58	.15	18.90	15.77	.86	.92	.35	.04	.41	.08	.91	.74
24	.57	.13	.03	.63	.99	16.28	.24	.01	.40	.07	.91	.73
25	.56	.18	17.40	16.09	.83	.20	.30	13.96	.38	.06	.92	.72
26	12.55	13.18	17.32	17.50	15.65	16.10	15.38	13.92	13.37	13.05	13.02	12.71
27	.53	.19	.20	18.72	.68	.23	.28	.89	.36	.04	.01	.70
28	.54	.20	16.97	19.50	16.11	.56	.23	.85	.34	.03	.01	.70
29	.53	.17	.54	.68	.40	.91	.07	.82	.32	.09		.69
30	.51	.19	.12	.81	.66	17.29	14.99	.79	.30	.20		.69
31		.22		.82	.68		.92		.29	.36		.68
Mean	12.58	12.88	15.43	16.46	18.86	16.20	16.17	14.28	13.49	13.15	13.04	12.81
Max.	12.69	13.22	19.26	19.82	19.55	17.29	17.46	14.90	13.76	13.27	13.40	12.97
Min.	12.51	12.49	13.15	15.03	15.65	15.68	14.92	13.79	13.29	13.03	12.91	12.68

WATER YEAR 1965 : Max. 19.82 m. Min. 12.49 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55	40	104	686	1,962	806	1,099	393	186	116	133	83
2	51	40	102	684	1,669	748	1,053	381	183	115	121	82
3	51	41	107	630	1,453	712	938	377	180	114	113	82
4	50	41	113	586	1,409	670	851	361	177	112	109	82
5	49	38	114	557	1,529	651	827	345	172	110	101	80
6	48	52	112	528	1,582	769	873	337	169	109	99	75
7	47	46	113	485	1,497	830	885	343	168	108	96	73
8	46	43	129	453	1,333	863	882	341	165	107	93	71
9	45	45	163	439	1,138	836	885	331	162	106	90	69
10	45	49	195	420	1,009	786	954	313	159	105	88	68
11	45	59	220	429	960	737	966	299	157	105	87	67
12	45	65	210	586	932	698	910	285	156	104	89	69
13	46	74	226	662	842	670	848	272	157	104	87	71
14	46	75	244	638	769	643	804	269	156	104	86	71
15	45	74	261	630	717	605	763	261	153	104	85	74
16	45	78	335	689	700	574	731	254	151	104	84	72
17	46	84	590	726	651	571	723	249	150	102	85	79
18	45	84	766	712	612	571	686	246	147	101	86	67
19	46	78	1,113	737	607	612	638	242	143	101	85	65
20	46	87	1,481	754	586	628	612	239	141	100	83	64
21	48	108	1,695	700	578	593	595	236	140	98	81	63
22	48	100	1,825	662	571	588	538	233	136	97	79	61
23	45	102	1,665	593	615	630	492	229	134	95	77	60
24	45	100	1,314	559	648	728	466	225	133	94	77	59
25	44	106	1,078	675	607	706	480	217	130	93	78	58
26	43	106	1,050	1,113	564	678	499	210	129	91	88	57
27	41	107	1,009	1,590	571	714	475	205	128	90	87	56
28	42	108	935	1,938	681	809	464	199	125	89	87	56
29	41	105	804	2,027	763	916	429	195	123	96		55
30	40	107	684	2,092	839	1,040	412	190	120	108		55
31		110		2,097	845		397		119	128		54
Total	1,379	2,352	18,757	26,077	29,239	21,382	22,175	8,277	4,649	3,210	2,554	2,098
Mean	46	76	625	841	943	713	715	276	150	103	91	68
Max.	55	110	1,825	2,097	1,962	1,040	1,099	393	186	128	133	83
Min.	40	38	102	420	564	571	397	190	119	89	77	54
Runoff - MCM.	119.146	203.213	1,620.645	2,253.053	2,526.250	1,847.405	1,915.920	715.133	401.674	277.344	220.666	181.267

WATER YEAR 1965 : Max. 2,097 Min. 38 Mean 389 Annual Runoff 12,281.674 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 30	18.00	19.82	2,097	Jun. 22	18.00	19.26	1,825

WATER YEAR 1965
MAE KLONG RIVER BASIN

Khwae Yai at Kaeng Riang, Kanchanaburi (K. 6)

Location: Lat. 14° – 25' – 43" N., Long 99° – 07' – 04" E., about 200 meters downstream from Lan Thom Cave, and about 9 kilometers upstream from Erawan Fall Tambon Tha Kradan, Amphoe Si Sawat, Kanchanaburi.

Drainage Area: 11,789 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 54.00 m. (M.S.L.)

Bench Mark: BM. – R.I.D. No. 2
Location: At the rain gage infront of the station office of K. 6.
Elevation: + 72.819 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 which is adequate to represent its mean daily value.

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: Very stable, shifting adjustment is negligible for flow computation due to its excellent stability.

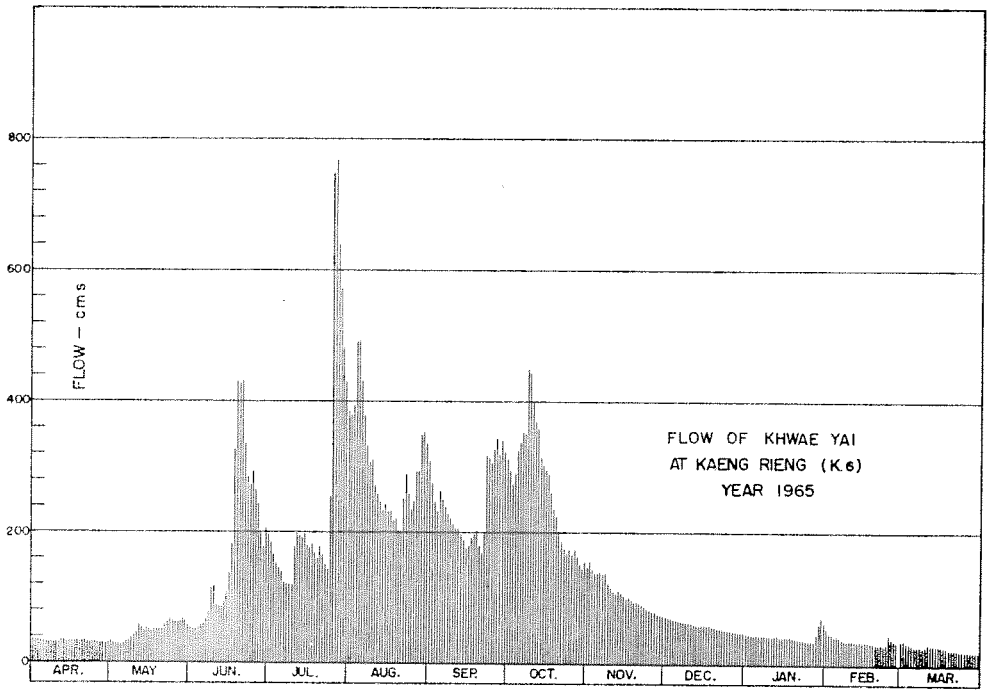
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	56.13	56.10	56.37	57.99	59.53	58.96	59.00	57.48	56.63	56.29	56.38	56.15
2	.12	.06	.37	.87	.50	.67	58.83	.58	.61	.28	.32	.14
3	.11	.03	.34	.68	.60	.42	.67	.43	.59	.26	.29	.10
4	.10	.02	.38	.55	60.23	.30	.81	.38	.58	.26	.23	.09
5	.09	.01	.44	.47	.25	.57	59.10	.37	.56	.25	.25	.05
6	56.09	56.04	56.49	57.38	59.86	58.45	59.20	57.39	56.55	56.25	56.21	56.02
7	.08	.11	.56	.21	.49	.37	.30	.36	.54	.24	.18	.01
8	.07	.13	.72	.19	.15	.27	.30	.38	.53	.24	.15	.00
9	.06	.20	57.12	.18	58.95	.21	.98	.21	.52	.23	.14	55.99
10	.08	.22	.14	.17	.98	.14	.93	.13	.51	.23	.14	56.00
11	56.07	56.30	56.83	57.79	58.64	58.06	59.65	57.07	56.50	56.22	56.15	56.06
12	.13	.44	.80	.99	.55	.06	.42	.03	.48	.23	.13	.04
13	.10	.40	.80	.96	.43	57.98	.34	.08	.47	.23	.12	.03
14	.09	.35	.90	.95	.33	.90	.01	.05	.46	.22	.12	.04
15	.09	.40	57.06	.98	.40	.78	58.91	56.99	.45	.22	.12	.02
16	56.09	56.36	57.36	57.81	58.29	57.79	58.85	56.93	56.46	56.22	56.13	56.00
17	.10	.32	.83	.78	.30	.93	.80	.97	.45	.22	.12	55.99
18	.11	.34	59.09	.82	.17	.97	.56	.93	.44	.21	.10	.96
19	.09	.37	.86	.71	.19	58.03	.34	.89	.43	.20	.08	.94
20	.11	.34	.83	.62	.04	57.81	.23	.90	.41	.18	.06	.94
21	56.10	56.35	59.86	57.80	58.02	57.72	58.03	56.88	56.40	56.17	56.05	55.93
22	.09	.47	.16	.66	.47	58.01	57.87	.84	.39	.16	.05	.91
23	.09	.51	58.76	.51	.79	59.02	.77	.80	.38	.16	.04	.90
24	.09	.56	.67	.46	.55	.00	.70	.77	.37	.14	.06	.90
25	.08	.53	.83	58.52	.32	58.94	.75	.75	.36	.13	.28	.89
26	56.06	56.50	58.60	61.58	58.44	59.11	57.68	56.73	56.35	56.13	56.19	55.88
27	.06	.51	.40	.68	.82	.23	.75	.70	.34	.13	.15	.88
28	.06	.51	.04	.05	.84	.04	.65	.68	.33	.29	.11	.87
29	.07	.58	57.80	60.70	59.27	.21	.52	.66	.32	.50		.87
30	.06	.52	58.07	.19	.30	.07	.45	.64	.31	.61		.86
31		.43		59.86	.19		.57		.30	.52		.86
Mean	56.09	56.32	57.68	58.29	58.87	58.47	58.58	57.00	56.45	56.24	56.15	55.98
Max.	56.13	56.58	59.86	61.68	60.25	59.23	59.98	57.58	56.63	56.61	56.38	56.15
Min.	56.06	56.01	56.34	57.17	58.02	57.72	57.45	56.64	56.30	56.13	56.04	55.86

WATER YEAR 1965 : Max. 61.68 m. Min. 55.86 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	35	33	52	198	384	308	313	147	71	46	53	36
2	34	31	52	185	380	273	293	156	70	46	48	36
3	34	29	50	166	394	245	273	143	68	44	46	33
4	33	28	53	153	490	232	290	138	67	44	42	32
5	32	28	57	146	493	262	326	137	66	43	43	30
6	32	29	60	138	431	248	339	139	65	43	41	28
7	32	34	66	123	379	240	352	136	64	43	39	28
8	31	35	79	121	332	229	352	138	63	43	36	27
9	31	40	115	120	307	222	449	123	63	42	36	26
10	32	41	117	119	311	214	441	116	62	42	36	27
11	31	47	89	177	270	206	401	110	61	41	36	31
12	35	57	86	198	259	206	369	107	60	42	35	29
13	33	54	86	195	246	197	358	111	59	42	34	29
14	32	50	95	193	235	188	314	108	58	41	34	29
15	32	54	109	197	243	176	302	103	57	41	34	28
16	32	51	136	179	231	177	295	98	58	41	35	27
17	33	48	181	176	232	191	289	101	57	41	34	26
18	34	50	325	180	218	196	261	98	57	41	33	25
19	32	52	431	169	220	202	236	94	56	40	32	23
20	34	50	426	160	203	179	224	95	55	39	31	23
21	33	50	431	178	201	170	202	93	54	38	30	23
22	32	59	334	164	251	200	185	90	53	37	30	22
23	32	62	284	150	288	316	175	86	53	37	29	21
24	32	66	273	145	259	313	168	83	52	36	31	21
25	32	63	293	256	234	306	173	81	51	35	46	20
26	31	61	265	745	247	327	166	80	50	35	39	20
27	31	62	243	766	291	343	173	77	50	35	36	20
28	31	62	203	638	294	318	163	75	49	46	34	19
29	31	67	178	572	348	340	151	74	48	61		19
30	31	63	207	483	352	322	144	72	48	70		19
31		56		431	338		155		47	63		19
Total	970	1,512	5,376	7,821	9,361	7,346	8,332	3,209	1,792	1,338	1,033	796
Mean	32	49	179	252	302	245	269	107	58	43	37	26
Max.	35	67	431	766	493	343	449	156	71	70	53	36
Min.	31	28	50	119	201	170	144	72	47	35	29	19
Runoff - mcm.	83.808	130.637	464.486	675.734	808.790	634.694	719.885	277.256	154.829	115.603	89.251	68.774

WATER YEAR 1965 : Max. 766 Min. 19 Mean 134 Annual Runoff 4,223.750 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 27	09.00	61.80	791	Aug. 4	24.00	60.38	516

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Ban Tham, Kanchanaburi (K. 8)

Location: Lat. 13° – 58' – 06" N., Long 99° – 35' – 12" E., on the left bank of Mae Klong River, about 350 meters downstream from Wat Tha Lo, Amphoe Tha Muang, Kanchanaburi.

Drainage Area: 27,200 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water – stage recorder.

Zero Gage at Bottom at: + 14.00 m. (M.S.L.)

Bench Mark: BM. – R.I.D.
Location: On the left bank, near the station office of K.8.
Elevation: + 24.500 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1957 to date.

Rating Operation:
Period of Rating: 1957 – 66.
Rated by Float: –
Rated by Current Meter: 1957 – 66.

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation due to its adequate stability.

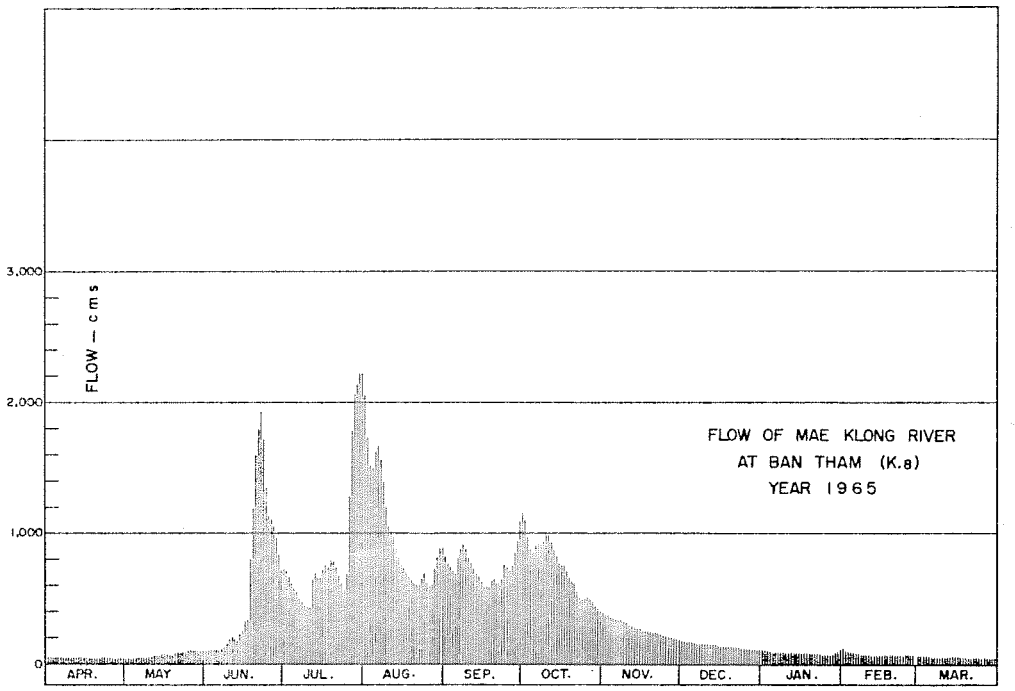
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Upstream diversion is made of about 2,960 hectares at Tha Lo. The data presented is from actual flow at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	14.98	14.86	15.29	17.87	21.13	18.16	19.06	16.76	15.79	15.35	15.46	15.09
2	.95	.87	.28	.84	20.45	.03	18.91	.69	.76	.34	.38	.09
3	.95	.88	.33	.64	19.93	17.95	.56	.67	.73	.33	.33	.08
4	.94	.87	.36	.49	.88	.81	.31	.60	.71	.31	.30	.07
5	.93	.85	.36	.38	20.21	.76	.26	.55	.70	.30	.24	.04
6	14.93	14.94	15.34	17.29	20.30	18.13	18.40	16.53	15.68	15.29	15.22	15.02
7	.92	.90	.35	.13	.06	.30	.43	.53	.67	.28	.18	.00
8	.92	.90	.49	.00	19.64	.39	.43	.53	.66	.28	.16	14.99
9	.91	.91	.67	16.92	.17	.30	.48	.47	.65	.27	.14	.98
10	.90	.93	.85	.87	18.81	.15	.64	.41	.63	.27	.12	.97
11	14.90	14.99	15.93	16.88	18.68	18.00	18.64	16.36	15.61	15.26	15.12	14.96
12	.91	15.04	.88	17.58	.56	17.89	.47	.30	.61	.25	.13	.99
13	.92	.09	.79	.75	.31	.78	.30	.25	.59	.25	.11	.98
14	.92	.09	16.06	.66	.11	.70	.16	.23	.58	.25	.11	.99
15	.91	.08	.15	.65	17.97	.59	.03	.20	.57	.25	.10	15.02
16	14.90	15.12	16.48	17.87	17.91	17.46	17.96	16.17	15.56	15.24	15.09	15.00
17	.91	.17	17.50	.98	.77	.47	.94	.13	.55	.24	.09	14.97
18	.90	.15	18.10	.92	.71	.47	.82	.12	.51	.23	.10	.96
19	.90	.11	19.14	18.07	.60	.61	.65	.10	.51	.22	.10	.94
20	.90	.20	20.15	.04	.53	.64	.57	.08	.50	.21	.09	.93
21	14.92	15.31	20.60	17.88	17.51	17.52	17.51	16.07	15.50	15.20	15.07	14.92
22	.92	.27	.88	.73	.49	.51	.31	.05	.48	.19	.04	.91
23	.90	.29	.41	.51	.65	.67	.15	.03	.46	.18	.03	.90
24	.89	.27	19.55	.41	.76	.98	.07	15.98	.45	.17	.04	.89
25	.89	.31	.02	.76	.59	.90	.12	.94	.44	.16	.04	.88
26	14.89	15.32	18.94	19.35	17.46	17.82	17.18	15.90	15.43	15.15	15.14	14.87
27	.87	.32	.44	20.55	.49	.94	.10	.88	.42	.14	.11	.86
28	.87	.32	.59	21.15	.90	18.23	.03	.85	.40	.13	.12	.85
29	.86	.30	.18	.31	18.12	.48	16.89	.83	.39	.20		.85
30	.86	.32	17.85	.44	.35	.92	.80	.80	.38	.31		.85
31		.33		.44	.35		.76		.36	.45		.85
Mean	14.90	15.10	17.24	18.20	18.56	17.91	17.86	16.23	15.55	15.24	15.14	14.95
Max.	14.98	15.33	20.88	21.44	21.13	18.92	19.06	16.76	15.79	15.45	15.46	15.09
Min.	14.86	14.85	15.28	16.87	17.46	17.46	16.76	15.80	15.36	15.13	15.03	14.85

WATER YEAR 1965 : Max. 21.44 m. Min. 14.85 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	55	42	95	722	2,045	824	1,152	397	179	103	121	68
2	51	42	93	712	1,727	776	1,094	378	173	102	108	68
3	51	44	100	648	1,502	749	962	373	168	100	100	67
4	50	42	105	602	1,481	702	873	355	164	97	96	65
5	49	41	105	569	1,620	686	856	342	162	96	88	62
6	49	51	102	543	1,660	810	905	337	158	95	85	59
7	48	45	103	497	1,556	870	915	337	157	93	79	57
8	48	45	125	462	1,382	901	912	337	155	93	77	56
9	47	46	157	440	1,195	870	933	323	153	92	74	55
10	46	48	190	427	1,055	817	991	308	149	92	72	54
11	46	56	206	430	1,006	766	991	297	146	90	72	53
12	47	61	196	630	962	729	929	283	146	89	73	56
13	48	68	179	683	873	693	870	272	142	89	70	55
14	48	68	232	655	803	667	821	268	141	89	70	56
15	47	67	250	651	756	633	776	261	139	89	69	59
16	46	72	325	722	735	593	752	255	137	88	68	57
17	47	78	330	759	689	591	746	246	135	88	68	54
18	46	75	800	739	670	591	706	244	129	86	69	53
19	46	70	1,184	790	636	639	651	240	129	85	69	50
20	46	82	1,594	780	614	648	627	236	127	83	68	49
21	48	97	1,795	725	608	611	608	234	127	82	65	48
22	48	92	1,924	677	602	608	549	230	124	81	62	47
23	46	93	1,709	608	651	658	503	226	121	79	61	46
24	45	92	1,346	578	686	759	481	216	119	78	62	45
25	45	97	1,133	686	633	732	495	208	117	77	62	44
26	45	99	1,106	1,266	593	706	511	200	116	75	74	43
27	43	99	1,059	1,772	602	746	489	196	114	74	70	42
28	43	99	972	2,055	732	845	470	190	111	73	72	41
29	42	95	828	2,136	807	933	432	187	109	82		41
30	42	99	715	2,204	887	1,098	408	181	108	97		41
31		100		2,204	887		397		105	119		41
Total	1,408	2,205	19,058	27,372	30,655	22,251	22,805	8,157	4,206	2,756	2,124	1,632
Mean	47	71	635	883	989	742	736	272	137	89	76	53
Max.	55	100	1,924	2,204	2,045	1,098	1,152	397	179	119	121	68
Min.	42	42	93	427	593	608	397	181	105	73	61	41
Runoff - mcm.	121.651	190.512	1,646.611	2,364.941	2,648.592	1,922.486	1,970.352	704.765	363.398	238.118	183.514	141.005

WATER YEAR 1965 : Max. 2,204 Min. 41 Mean 396 Annual Runoff 12,495.946 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 30	18.00	21.45	2,204	Jun. 22	06.00	20.88	1,924

WATER YEAR 1965
MAE KLONG RIVER BASIN

Khwae Noi at Lum Sum, Kanchanaburi. (K. 10)

Location: Lat. 14° - 05' - 40" N., Long 99° - 10' - 28" E., on the left bank of the river, about 100 meters upstream from Lum Sum railway station, Amphoe Sai Yok, Kanchanaburi.

Drainage Area: 7,008 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark:
- Location: On the left bank of the river along the line of measurement.
- Elevation: + 20.00 m. (A.D.)

Gage Reading Frequency: 15 - time daily readings at 03.00, 06.00, 18.00 and 21.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 15 readings which is adequate to represent its mean daily value.

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, shifting adjustment is negligible for flow computation due to its adequate stability.

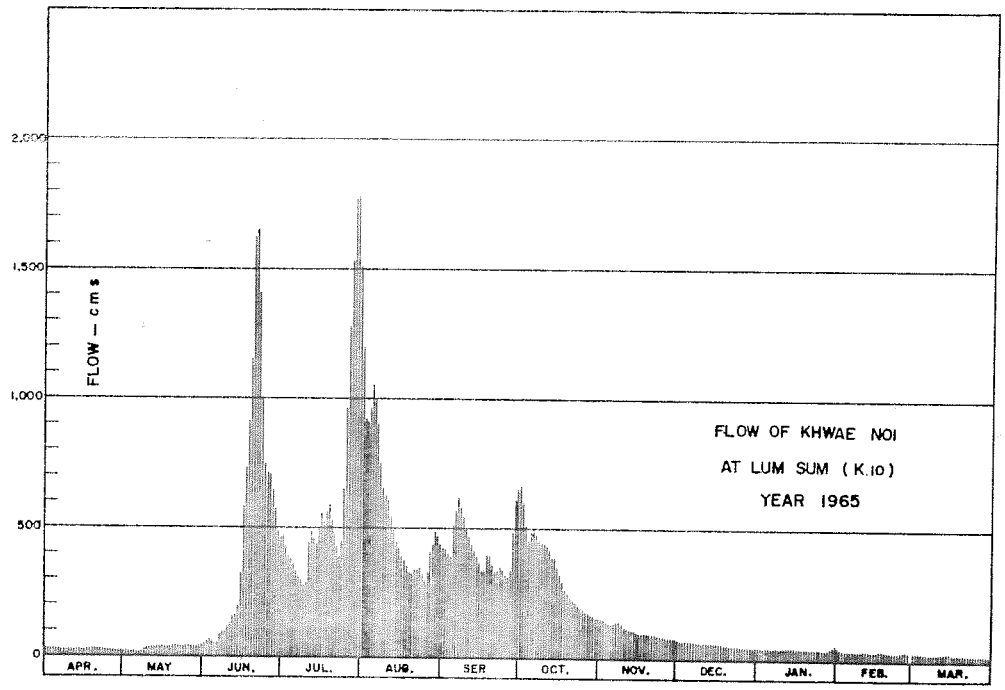
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.76	0.68	1.34	6.50	10.74	5.99	8.10	2.92	1.68	1.21	1.25	0.91
2	.76	.66	.47	5.99	9.80	.96	7.24	.81	.66	.20	.15	.94
3	.76	.62	.62	.70	.81	.76	6.69	.73	.63	.17	.14	.95
4	.76	.60	.42	.60	10.28	.64	.26	.66	.61	.17	.04	.90
5	.74	.61	.31	.39	.58	6.79	.64	.59	.59	.16	.03	.88
6	0.73	0.62	1.39	5.02	10.22	7.38	6.67	2.69	1.58	1.15	1.00	0.85
7	.71	.60	.91	4.81	9.41	.72	.44	.74	.57	.15	0.99	.82
8	.69	.63	2.15	.70	8.58	.39	.22	.69	.55	.15	.98	.82
9	.68	.73	.13	.47	7.93	.08	.17	.55	.53	.14	.97	.81
10	.68	.86	.38	.70	.74	6.65	.18	.49	.51	.14	.98	.81
11	0.70	0.98	2.59	6.26	7.65	6.38	6.06	2.41	1.49	1.13	0.99	0.80
12	.71	.96	3.03	.65	.00	.16	5.72	.31	.48	.12	.96	.82
13	.68	.95	.07	.20	6.58	5.94	.61	.26	.47	.14	.96	.91
14	.68	1.05	.43	.12	.27	.67	.60	.23	.46	.15	.95	.91
15	.68	.09	4.44	.85	5.98	.38	.21	.17	.45	.13	.94	.85
16	0.68	1.08	7.61	7.26	5.67	5.15	4.93	2.12	1.44	1.12	0.98	0.81
17	.72	.05	8.33	6.97	.55	.22	.63	.11	.43	.11	1.01	.79
18	.70	.03	9.92	7.27	.25	.69	.37	.13	.40	.10	.00	.77
19	.76	.03	11.91	.51	.04	.74	.15	.08	.39	.09	0.96	.76
20	.77	.20	13.00	6.98	.04	.27	3.98	.05	.37	.08	.92	.75
21	0.78	1.16	13.09	6.40	5.16	5.07	3.81	2.06	1.35	1.07	0.89	0.74
22	.76	.11	11.52	5.89	.18	.17	.66	.04	.34	.05	.89	.73
23	.76	.06	9.10	.65	.28	.27	.51	1.97	.33	.04	.88	.73
24	.73	.11	8.53	6.60	.00	.11	.41	.89	.32	.03	.88	.72
25	.71	.14	.50	9.28	4.67	4.91	.36	.85	.31	.02	.96	.71
26	0.68	1.11	8.44	11.04	4.70	4.86	3.29	1.83	1.29	1.01	0.98	0.71
27	.66	.16	7.97	12.13	5.84	5.19	.23	.79	.28	.01	.98	.70
28	.65	.06	.19	.87	6.28	6.49	.14	.76	.27	.01	.94	.70
29	.62	.10	6.40	13.47	.62	7.65	.05	.73	.25	.12		.69
30	.62	.15	.39	.49	.48	8.07	2.95	.70	.25	.32		.69
31		.24		12.43	.00		.91		.23	.41		.69
Mean	0.71	0.95	5.71	7.42	6.98	6.02	4.94	2.24	1.43	1.16	0.98	0.79
Max.	0.78	1.24	13.09	13.49	10.74	8.07	8.10	2.92	1.68	1.41	1.25	0.95
Min.	0.62	0.60	1.31	4.47	4.67	4.86	2.91	1.70	1.23	1.01	0.88	0.69

WATER YEAR 1965 : Max. 13.49 m. Min. 0.60 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	24	21	49	471	1,078	420	658	147	68	42	44	30
2	24	20	55	420	906	417	555	140	67	42	40	32
3	24	19	64	391	908	397	492	134	65	41	40	32
4	24	18	53	381	986	385	447	129	64	41	36	30
5	24	18	47	360	1,046	503	486	124	62	40	35	29
6	23	19	51	323	976	572	490	131	62	40	34	28
7	22	18	82	304	844	612	465	135	61	40	34	27
8	22	19	96	294	723	573	443	131	60	40	33	27
9	21	23	95	273	638	536	438	121	59	40	33	26
10	21	28	110	294	615	487	439	117	58	40	33	26
11	22	33	124	447	604	459	427	112	56	39	34	26
12	22	32	155	487	526	437	393	106	56	39	32	27
13	21	32	158	441	480	415	382	103	55	40	32	30
14	21	36	185	433	448	388	381	101	55	40	32	30
15	21	38	271	509	419	359	342	97	54	39	32	28
16	21	37	599	557	388	336	315	94	54	39	33	26
17	23	36	688	523	376	343	288	94	53	38	34	26
18	22	35	925	558	346	390	264	95	52	38	34	25
19	24	35	1,329	587	325	395	244	92	51	38	32	24
20	25	42	1,615	524	325	348	229	90	50	37	31	24
21	25	40	1,643	461	337	328	216	91	49	37	30	24
22	24	38	1,237	410	339	338	204	89	49	36	30	23
23	24	36	797	386	349	348	192	85	48	36	29	23
24	23	38	716	482	321	332	184	80	48	35	29	23
25	22	40	712	824	291	313	180	78	47	35	32	22
26	21	38	704	1,138	294	308	174	77	46	34	33	22
27	20	40	642	1,384	405	340	169	74	46	34	33	22
28	20	36	549	1,578	449	470	163	73	45	34	32	22
29	19	38	461	1,768	484	604	156	71	44	39		22
30	19	40	460	1,775	469	654	149	69	44	48		22
31		44		1,461	421		147		43	52		22
Total	668	987	14,672	20,244	17,116	12,807	10,112	3,080	1,671	1,213	936	800
Mean	22	32	489	653	552	427	326	103	54	39	33	26
Max.	25	44	1,643	1,775	1,078	654	658	147	68	52	44	32
Min.	19	18	47	273	291	308	147	69	43	34	29	22
Runoff - mcm.	57.715	85.277	1,267.661	1,749.082	1,478.822	1,106.525	873.677	266.112	144.374	104.803	80.870	69.120

WATER YEAR 1965 : Max. 1,775 Min. 18 Mean 231 Annual Runoff 7,284.038 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 30	24.00	13.60	1,811	Jun. 20	24.00	13.26	1699

WATER YEAR 1965
MAE KLONG RIVER BASIN

Mae Klong River at Wang Khanai (K. 11)

Location: Lat. 13° – 56' – 55" N., Long 99° – 38' – 42" E., on the left bank of the river, about 3 kilometers downstream from the office of Amphoe Tha Muang, Ban Wang Khanai, Kanchanaburi.

Drainage Area: 27,228 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 11.928 m. (M.S.L.)

Bench Mark:
- Location: On left bank along the gage line.
- Elevation: BM. 1+22.097 m. (M.S.L.), and BM. 2+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 which is adequate to represent its mean daily value.

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, shifting adjustment is negligible for flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

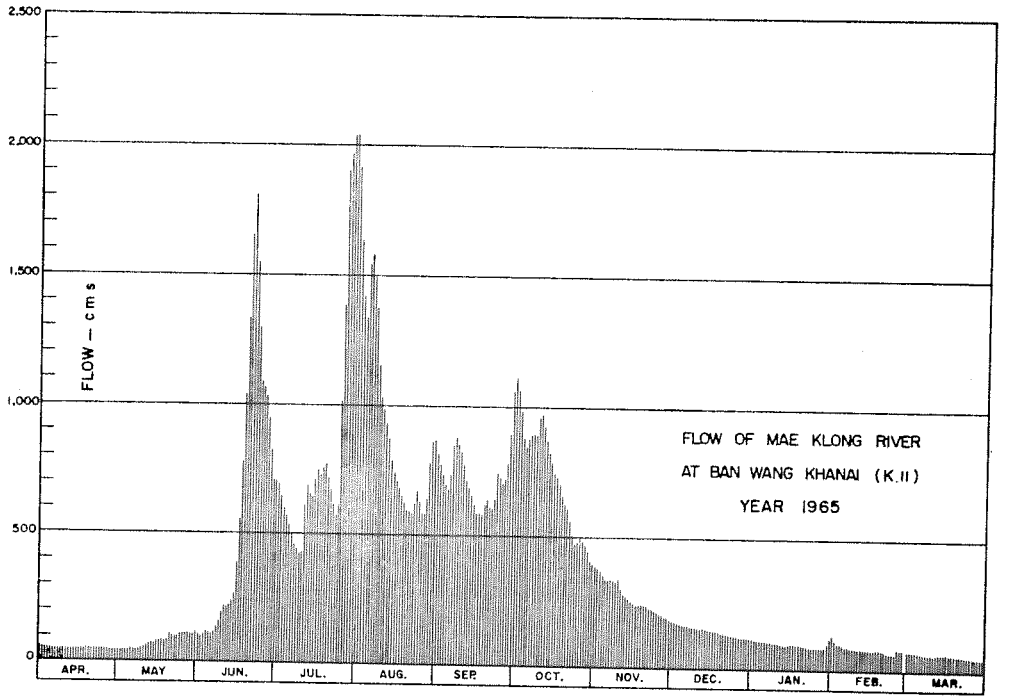
General Description: Records are classified as good. Upstream diversion is made of about 2,960 hectares at Tha Lo. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

Remark: No gage height record for Apr. 1 – May 24; mean daily gage height based on correlation with record for station at K.4.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	* 12.53	* 12.35	13.03	15.87	19.15	16.25	17.12	14.68	13.57	13.07	13.20	12.77
2	* .49	* .35	.00	.86	18.54	.09	16.99	.63	.55	.06	.11	.76
3	* .49	* .37	.06	.67	.01	15.97	.65	.61	.53	.04	.04	.76
4	* .48	* .36	.12	.50	17.90	.82	.38	.53	.51	.03	.01	.75
5	* .47	* .33	.11	.38	18.22	.74	.29	.47	.48	.02	12.92	.73
6	* 12.46	* 12.50	13.08	15.29	18.34	16.13	16.44	14.42	13.46	13.01	12.91	12.70
7	* .45	* .44	.09	.12	.12	.33	.48	.45	.44	.00	.88	.68
8	* .44	* .39	.22	14.99	17.72	.43	.47	.43	.43	.00	.85	.66
9	* .43	* .42	.46	.91	.26	.35	.48	.40	.41	12.98	.83	.64
10	* .42	* .47	.66	.83	16.88	.20	.68	.30	.40	.98	.82	.64
11	* 12.42	* 12.57	13.80	14.88	16.73	16.03	16.72	14.23	13.37	12.97	12.82	12.63
12	* .43	* .62	.75	15.49	.65	15.89	.56	.17	.36	.96	.82	.66
13	* .44	* .71	.85	.81	.38	.81	.37	.10	.38	.95	.81	.66
14	* .44	* .72	.96	.69	.15	.70	.24	.08	.36	.95	.79	.66
15	* .43	* .71	14.06	.66	15.99	.58	.10	.05	.35	.96	.79	.69
16	* 12.43	* 12.75	14.40	15.88	15.92	15.44	15.98	14.00	13.33	12.95	12.78	12.67
17	* .43	* .80	15.50	16.01	.77	.44	.96	13.96	.32	.94	.78	.64
18	* .44	* .80	16.14	15.94	.70	.43	.86	.95	.30	.94	.79	.63
19	* .43	* .75	17.11	16.04	.60	.58	.67	.93	.27	.93	.78	.61
20	* .44	* .83	18.02	.10	.51	.64	.58	.91	.24	.92	.77	.60
21	* 12.46	* 13.02	18.55	15.92	15.49	15.52	15.51	13.89	13.25	12.90	12.74	12.59
22	* .46	* 12.95	.87	.76	.46	.52	.29	.87	.22	.89	.72	.57
23	* .43	* .97	.50	.52	.62	.65	.12	.85	.21	.88	.71	.56
24	* .42	* .95	17.68	.39	.76	.99	.01	.82	.19	.87	.70	.55
25	* .41	13.03	.07	.69	.60	.92	.06	.76	.18	.86	.71	.54
26	* 12.39	13.05	16.99	17.26	15.44	15.84	15.14	13.72	13.17	12.85	12.83	12.53
27	* .37	.04	.88	18.32	.45	.95	.05	.69	.15	.84	.80	.52
28	* .38	.06	.65	19.08	.88	16.25	.00	.66	.13	.83	.80	.52
29	* .37	.02	.25	.27	16.14	.54	14.86	.63	.12	.87		.51
30	* .35	.03	15.88	.39	.38	.94	.76	.59	.11	13.00		.51
31		.07		.40	.40		.69		.09	.15		.51
Mean	12.43	12.72	15.19	16.19	16.58	15.93	15.88	14.09	13.31	12.95	12.84	12.62
Max.	12.53	13.07	18.87	19.40	19.15	16.94	17.12	14.68	13.57	13.15	13.20	12.77
Min.	12.35	12.33	13.00	14.83	15.44	15.43	14.69	13.59	13.09	12.83	12.70	12.51

WATER YEAR 1965 : Max. 19.40 m. Min. 12.33 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	50	34	106	701	1,922	807	1,107	384	178	111	128	75
2	46	34	102	698	1,661	767	1,061	373	175	110	116	74
3	46	36	110	644	1,445	731	945	368	172	107	107	74
4	45	35	118	596	1,323	687	858	351	169	106	103	72
5	44	32	116	564	1,530	664	832	338	165	105	92	70
6	43	47	112	539	1,579	779	877	327	162	103	91	67
7	42	42	114	495	1,489	842	887	333	160	102	88	65
8	42	37	131	461	1,331	874	886	329	158	102	84	63
9	41	40	162	441	1,158	848	887	323	155	100	82	61
10	40	44	192	420	1,023	801	955	303	154	100	80	61
11	40	54	213	433	972	749	969	289	150	98	80	60
12	41	59	205	593	945	707	916	277	149	97	80	63
13	42	68	221	684	858	684	854	264	151	96	79	63
14	42	69	239	649	785	652	813	260	149	96	77	63
15	41	68	253	641	737	618	770	255	147	97	77	66
16	41	72	323	704	716	580	734	246	145	96	76	64
17	41	78	596	743	672	580	728	239	144	95	76	61
18	42	78	782	722	652	577	698	237	141	95	77	60
19	41	72	1,104	752	624	618	644	234	137	94	76	58
20	42	82	1,449	770	599	635	618	231	133	92	75	57
21	43	105	1,665	716	593	602	599	227	134	90	71	56
22	43	96	1,799	669	585	602	539	224	131	89	69	54
23	41	98	1,645	602	630	638	495	221	129	88	68	53
24	40	96	1,315	566	666	737	467	216	127	86	67	52
25	39	106	1,089	649	624	716	480	207	125	85	68	51
26	37	108	1,061	1,158	580	693	500	201	124	84	82	50
27	36	107	1,023	1,571	582	725	477	196	121	83	78	49
28	36	110	945	1,891	704	816	464	192	119	82	78	49
29	36	105	816	1,975	782	909	428	187	118	86		48
30	34	106	704	2,029	858	1,044	403	181	116	102		48
31		111		2,034	864		387		114	121		48
Total	1,237	2,229	18,710	26,110	29,489	21,682	22,278	8,013	4,452	2,998	2,325	1,855
Mean	41	72	624	842	951	723	719	267	144	97	83	60
Max.	50	111	1,799	2,034	1,922	1,044	1,107	384	178	121	128	75
Min.	34	32	102	420	580	577	387	181	114	82	67	48
Runoff - mcm.	106.877	192.586	1,616.544	2,255.904	2,547.850	1,873.325	1,924.819	692.323	384.653	259.027	200.880	160.272

WATER YEAR 1965 : Max. 2,034 Min. 32 Mean 387 Annual Runoff 12,215.060mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul.30	18.00	19.41	2,038	Jul.22	12.00	18.87	1,799

WATER YEAR 1965
MAE KLONG RIVER BASIN

Lam Ta Phoen at Latya, Kanchanaburi (K. 12)

Location: Lat. 14° – 09' – 15" N., Long 99° – 25' – 06" E., on the right bank of the river, 100 meters upstream from Wat Thung Nang Rok School, Tambon Latya, Amphoe Muang, Kanchanaburi.

Drainage Area: 2,340 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

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

Bench Mark: BM. – H.S./R.I.D. K.12.
Location: On the right bank at Wat Thung Nang Rok.
Elevation: + 9.260 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 which is adequate to represent its mean daily value.

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, shifting adjustment is negligible due to its adequate stability.

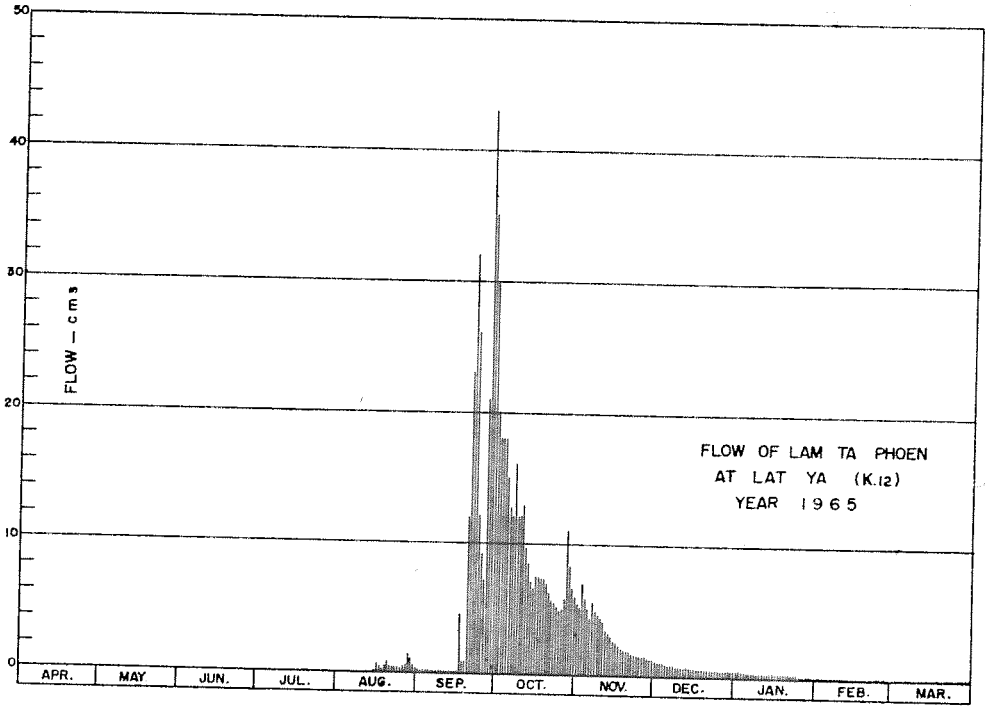
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No upstream diversions are made above the gage site. No information on watershed geology and ground water available at the present time it is doubtful whether there are deep percolation losses or watershed divide causing unusual runoff yield in this basin.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						10.41	13.09	11.56	10.77	10.51	10.36	10.34
2						.40	12.92	.52	.76	.51	.35	.34
3						.41	13.00	.65	.74	.51	.35	.34
4						.40	12.97	.63	.73	.50	.37	.34
5						.41	.64	.52	.71	.49	.36	.34
6						10.38	12.45	11.36	10.69	10.48	10.35	10.34
7						.39	.36	.59	.67	.48	.35	.34
8						.38	.82	.49	.67	.47	.35	.35
9						.37	.43	.42	.65	.47	.38	.34
10						.37	.35	.38	.65	.46	.44	.34
11						10.35	12.51	11.33	10.64	10.45	10.44	10.34
12						.33	.14	.23	.63	.45	.45	.33
13						.34	.03	.17	.64	.44	.57	.35
14						.34	11.79	.13	.63	.43	.41	.35
15					10.32	.34	.73	.07	.62	.43	.39	.35
16					10.64	10.35	11.85	11.05	10.61	10.42	10.39	10.34
17					.55	11.42	.77	.01	.60	.41	.38	.33
18					.44	10.67	.71	10.98	.60	.41	.37	.32
19					.51	.72	.70	.95	.59	.41	.36	.32
20					.69	12.34	.63	.92	.58	.41	.36	.32
21					10.52	13.37	11.54	10.93	10.58	10.40	10.37	10.32
22					.51	14.01	.45	.90	.58	.40	.37	.32
23					.49	13.56	.40	.86	.57	.40	.36	.32
24					.47	12.35	.36	.86	.57	.39	.37	.32
25					.45	.05	.31	.86	.56	.39	.37	.31
26					10.51	11.80	11.28	10.83	10.56	10.39	10.39	10.31
27					.56	13.19	.48	.83	.55	.38	.37	.31
28					.84	14.68	12.31	.83	.55	.38	.35	.31
29					.77	.17	11.96	.80	.54	.37		.32
30					.60	13.80	.75	.79	.53	.37		.31
31					.47		.65		.52	.37		.31
Mean						11.47	12.04	11.14	10.62	10.43	10.38	10.32
Max.						14.68	13.09	11.65	10.77	10.51	10.57	10.35
Min.						10.33	11.28	10.79	10.52	10.37	10.35	10.31

WATER YEAR 1965 : Max. – m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						0.22	20	5.41	1.18	0.42	0.16	0.14
2						0.19	18	5.17	1.14	0.42	0.15	0.14
3						0.22	18	6.00	1.06	0.42	0.15	0.14
4						0.20	18	5.86	1.02	0.40	0.17	0.14
5						0.20	15	5.17	0.94	0.38	0.16	0.14
6						0.18	13	4.21	0.87	0.36	0.15	0.14
7						0.19	12	5.59	0.81	0.36	0.15	0.14
8						0.18	16	4.99	0.81	0.34	0.15	0.15
9						0.17	12	4.57	0.75	0.34	0.18	0.14
10						0.17	12	4.33	0.75	0.32	0.28	0.14
11						0.15	13	4.03	0.72	0.30	0.28	0.14
12						0.13	10	3.43	0.69	0.30	0.30	0.13
13						0.14	8.94	3.10	0.72	0.28	0.54	0.15
14						0.14	7.02	2.90	0.69	0.26	0.22	0.15
15					0.12	0.14	6.57	2.60	0.66	0.26	0.19	0.15
16					0.72	0.15	7.50	2.50	0.63	0.24	0.19	0.14
17					0.55	4.57	6.87	2.30	0.60	0.22	0.18	0.13
18					0.28	0.81	6.42	2.15	0.60	0.22	0.17	0.12
19					0.42	0.98	6.35	2.00	0.58	0.22	0.16	0.12
20					0.87	12	5.89	1.85	0.56	0.22	0.16	0.12
21					0.44	23	5.29	1.90	0.56	0.20	0.17	0.12
22					0.42	32	4.75	1.75	0.56	0.20	0.17	0.12
23					0.38	26	4.45	1.57	0.54	0.20	0.16	0.12
24					0.34	12	4.21	1.57	0.54	0.19	0.17	0.12
25					0.30	9.10	3.91	1.57	0.52	0.19	0.17	0.11
26					0.42	7.10	3.73	1.43	0.52	0.19	0.19	0.11
27					0.52	21	4.87	1.43	0.50	0.18	0.17	0.11
28					1.48	43	11	1.43	0.50	0.18	0.15	0.11
29					1.18	35	8.38	1.30	0.48	0.17		0.12
30					0.60	29	6.72	1.26	0.46	0.17		0.11
31					0.34		6.00		0.44	0.17		0.11
Total						258	297	93	21	8.32	5.44	4.02
Mean						8.60	9.58	3.10	0.68	0.27	0.19	0.13
Max.						43	20	6.00	1.18	0.42	0.54	0.15
Min.						0.13	3.73	1.26	0.44	0.17	0.15	0.11
Runoff - mcm.						22.291	25.661	8.035	1.814	0.719	0.470	0.347

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
MAE KLONG RIVER BASIN

Khwae Noi at Tha Khanun, Kanchanaburi (K. 13)

Location: Lat. 14° – 43' – 50" N., Long 98° – 38' 32" E., on the left bank of the river at Pompe village, 200 meters downstream from Wat Tha Khannun, Amphoe Thong Pha Phum, Kanchanaburi.

Drainage Area: 4,047 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 73.70 m. (M.S.L.)

Bench Mark:
- Location: On the left bank, 75 meters downstream from the line of measurement.
- Elevation: BM. 1–K. 13+97.200 m. (M.S.L.), and BM. 2–K.13+94.700 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 which is adequate to represent its mean daily value.

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, shifting adjustment is negligible for flow computation due to its adequate stability.

Overbank Flow Conditions: No overbank flow.

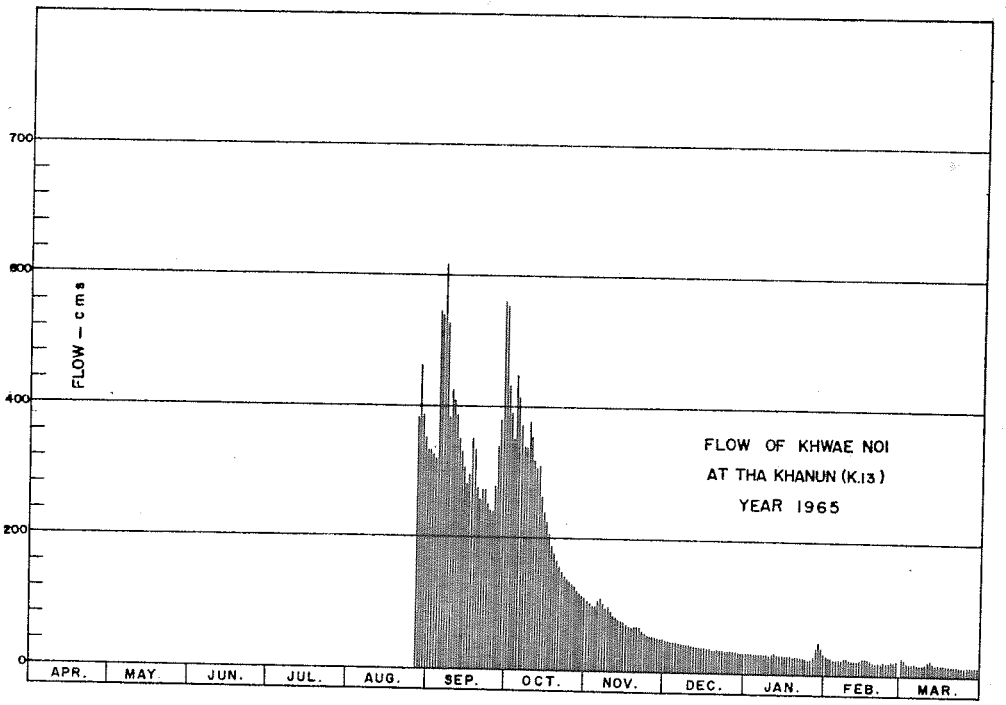
General Description: Records are classified as good. There are no diversions above the gage site.

Remark: Gage height began to record on Aug. 27,1965.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						79.50	80.05	77.27	76.46	76.14	76.10	76.06
2						.30	79.76	.22	.45	.13	.06	75.96
3						.22	.49	.19	.43	.12	.04	.93
4						80.74	80.15	.16	.42	.12	.03	.90
5						.71	79.92	.28	.41	.12	.01	.88
6						81.17	79.65	77.32	76.40	76.12	76.00	75.87
7						80.63	.41	.22	.39	.11	75.99	.86
8						79.70	.41	.13	.38	.11	76.02	.85
9						80.00	.68	.16	.36	.10	.04	.85
10						79.90	.37	.04	.35	.09	75.99	.87
11						79.73	79.22	76.98	76.34	76.12	75.97	75.96
12						.48	.15	.96	.33	.15	.97	76.00
13						.34	.16	.93	.32	.11	.96	75.91
14						.15	78.79	.89	.32	.11	.99	.88
15						78.95	.61	.86	.30	.10	76.05	.86
16						79.08	78.45	76.81	76.29	76.08	76.05	75.84
17						.50	.29	.77	.28	.10	.01	.84
18						.36	.15	.74	.28	.08	75.97	.83
19						78.90	.04	.76	.26	.06	.95	.82
20						.78	77.93	.73	.25	.05	.93	.81
21						78.91	77.83	76.74	76.24	76.04	75.92	75.80
22						.91	.75	.66	.23	.03	.91	.79
23						.72	.68	.62	.22	.01	.94	.78
24						.62	.65	.59	.21	.01	.93	.78
25						.62	.59	.58	.20	.01	.97	.78
26						78.92	77.54	76.55	76.20	76.00	75.96	75.77
27					79.71	79.41	.49	.53	.19	.06	.94	.77
28					80.23	.68	.45	.51	.18	.36	.98	.77
29					79.73	80.83	.38	.50	.17	.46		.77
30					.46	.79	.37	.48	.16	.30		.76
31					.51		.33		.15	.16		.76
Mean						79.55	78.24	76.85	76.29	76.11	75.98	75.84
Max.						81.17	80.15	77.32	76.46	76.46	76.10	76.06
Min.						78.62	77.33	76.48	76.15	76.00	75.91	75.76

WATER YEAR 1965: Max. m. Min. – m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1						352	433	106	48	30	28	26
2						326	390	102	47	29	26	21
3						316	351	99	46	29	25	19
4						545	448	97	45	29	24	18
5						540	414	106	45	29	23	17
6						619	373	110	44	29	23	17
7						526	340	102	43	28	22	16
8						381	340	94	43	28	24	16
9						426	378	97	42	28	25	16
10						411	335	87	41	27	22	17
11						385	316	83	40	29	21	21
12						349	306	81	40	30	21	23
13						331	308	79	39	28	21	18
14						306	261	76	39	28	22	17
15						280	240	74	38	28	25	16
16						297	222	71	37	27	25	16
17						352	205	68	37	28	23	16
18						334	189	66	37	27	21	15
19						274	178	67	36	26	20	15
20						260	167	65	35	25	19	14
21						275	157	66	35	25	19	14
22						275	149	60	34	24	18	14
23						252	142	57	34	23	20	13
24						241	139	55	33	23	19	13
25						241	134	55	33	23	21	13
26						277	130	53	33	23	21	13
27					382	340	125	52	32	26	20	13
28					461	378	121	51	32	42	22	13
29					385	560	115	50	31	48		13
30					347	553	114	49	31	38		13
31					353		111		30	31		13
Total						11,002	7,631	2,278	1,180	888	620	499
Mean						367	246	76	38	29	22	16
Max.						619	448	110	48	48	28	26
Min.						241	111	49	30	23	18	13
Runoff - MCM.						950.573	659.318	196.819	101.952	76.723	53.568	43.134

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Sept. 29	24.00	80.83	560	Sept. 6	12.00	81.17	619

WATER YEAR 1965
PHET RIVER BASIN

Phet River at Ban Raiphaniat, Phetchaburi (B. 1A)

Location: Lat. 13° – 04' – 22" N., Long 99° – 56' – 37" E., next to Muang Thamon Regulator, Ban Raiphaniat, Tambon Ban Mo, Amphoe Muang, Phetchaburi.

Drainage Area: 4,188 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: 0.00 m. (M.S.L.)

Bench Mark: BM. – R.I.D. 075
Location: At the cross road infront of Wang Ban Pun.
Elevation: + 4.719 m. (M.S.L.)

Gage Reading Frequency: 3 – times daily readings at 06.00, 12.00, and 18.00 hours.

Basis of Mean Daily Gage Height: Arithmetic mean of 3 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1961 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, shifting adjustment is not included for flow computation due to its adequate stability.

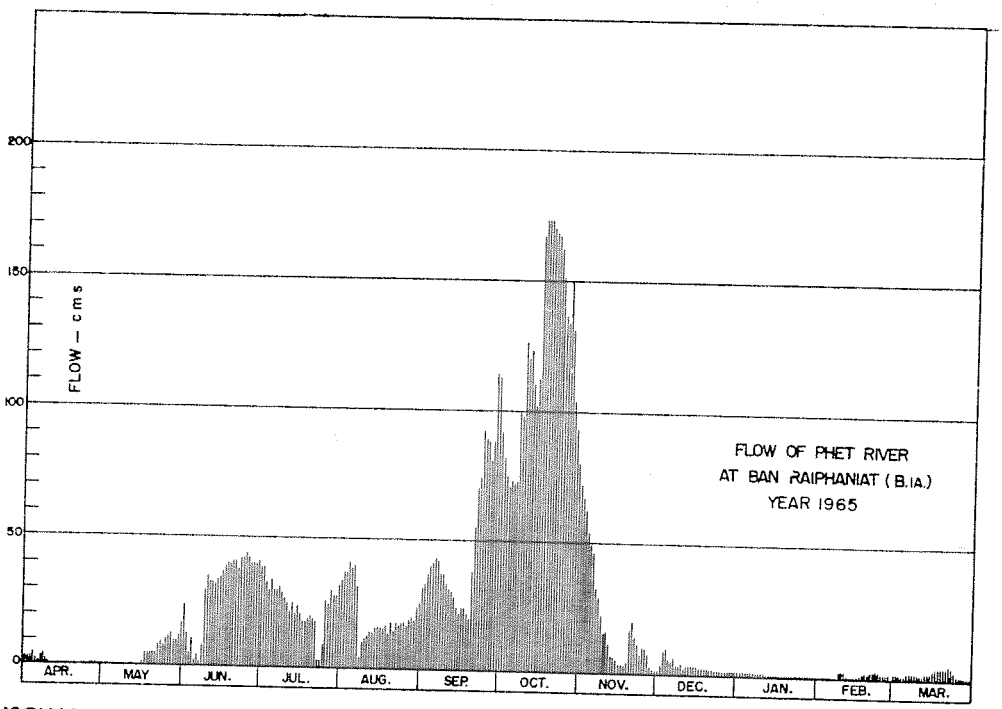
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Flow is regulated by storage dam and diversion dam upstream of the gage site, diversion for irrigation of about 27,800 hectares. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.27	0.78	2.26	2.74	2.59	2.48	4.01	3.57	1.09	1.14	1.01	1.16
2	.26	.80	1.82	.74	.68	.56	3.79	.47	.29	.14	0.98	.15
3	.27	.80	.43	.54	.68	.67	.66	.33	.62	.14	.93	.13
4	.40	.78	.74	.46	.79	.75	.54	.14	.69	.13	.90	.10
5	.24	.74	.20	.57	.73	.78	.60	.01	.43	.12	.90	.19
6	1.16	0.71	1.38	2.47	2.76	2.86	3.58	2.93	1.41	1.12	0.87	1.22
7	.28	.78	.23	.47	.51	.81	.59	.73	.49	.12	.88	.23
8	.37	.84	.59	.49	1.35	.68	4.14	.43	.29	.11	.88	.20
9	.18	.87	2.45	.44	.69	.68	.12	.18	.33	.11	1.18	.18
10	.11	.82	.62	.37	.77	.55	.65	1.92	.34	.11	.25	.17
11	0.99	0.97	2.55	2.28	1.80	2.48	4.55	1.95	1.24	1.07	1.25	1.15
12	.98	1.11	.54	.18	.86	.46	.60	.74	.30	.03	.02	.15
13	.95	0.85	.52	.28	.86	.38	.36	.50	.29	.00	0.99	.18
14	.95	.84	.57	.16	.94	.25	.21	.48	.29	0.99	1.00	.22
15	.93	.96	.60	.26	.94	.17	.41	.42	.27	.98	.02	.23
16	0.91	1.17	2.68	2.14	1.95	2.26	5.37	1.28	1.26	0.97	1.03	1.31
17	.91	.41	.73	.05	.96	.25	.47	.31	.25	.98	.09	.36
18	.82	.40	.77	.04	.98	.17	.46	.29	.25	.97	.13	.37
19	.89	.41	.76	.06	.88	.12	.46	.34	.23	.96	.16	.37
20	.89	.43	.78	.10	2.02	.71	.42	2.01	.25	.96	.14	.37
21	0.83	1.44	2.78	2.09	1.89	3.16	5.39	2.10	1.19	0.96	1.18	1.36
22	.80	.61	.70	.03	2.04	.53	.37	1.85	.22	.94	.23	.41
23	.79	.67	.82	1.27	.01	.62	.28	.72	.16	.98	.25	.37
24	.80	.59	.82	.26	.02	4.00	.10	.55	.17	.98	.23	.27
25	.80	.73	.88	.63	.02	3.94	4.83	.69	.16	.96	.17	.12
26	0.87	1.75	2.82	2.34	2.01	3.93	4.80	1.70	1.15	0.95	1.14	1.09
27	1.11	.80	.77	.30	.09	.77	5.08	.55	.14	.94	.13	.05
28	0.98	.68	.76	.46	.12	.93	4.74	.23	.14	.94	.17	.03
29	.83	.68	.76	.40	.08	4.44	.24	.13	.14	.93		.03
30	.79	.78	.79	.39	.24	.42	.02	.11	.14	.93		.02
31		.99		.51	.34		3.84		.14	.90		.03
Mean	1.01	1.23	2.40	2.24	2.11	2.96	4.53	1.98	1.27	1.01	1.07	1.20
Max.	1.40	1.99	2.88	2.74	2.79	4.44	5.47	3.57	1.69	1.14	1.25	1.41
Min.	0.79	0.71	1.20	1.26	1.35	2.12	3.54	1.11	1.09	0.90	0.87	1.02

WATER YEAR 1965 : Max. 5.47 m. Min. 0.71 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.14	0.00	24	39	34	31	92	72	1.16	1.64	0.84	1.86
2	3.02	0.00	13	39	37	33	82	67	3.38	1.64	0.72	1.75
3	3.14	0.00	5.51	33	37	37	75	62	8.90	1.64	0.52	1.53
4	5.00	0.00	11	30	41	40	71	54	10	1.53	0.40	1.20
5	2.78	0.00	2.30	34	39	41	73	49	5.51	1.42	0.40	1.16
6	1.86	0.00	4.70	30	40	43	72	46	5.17	1.42	0.28	2.54
7	3.26	0.00	2.66	30	32	42	73	39	6.53	1.42	0.32	2.66
8	4.55	0.16	8.32	31	4.25	37	99	29	3.38	1.31	0.32	2.30
9	2.08	0.28	30	29	10	37	98	22	3.95	1.31	2.08	2.08
10	1.31	0.08	35	27	12	33	126	15	4.10	1.31	2.90	1.97
11	0.76	0.68	33	25	13	31	120	16	2.78	1.08	2.90	1.75
12	0.72	1.31	33	22	14	30	123	11	3.50	0.92	0.88	1.75
13	0.60	0.20	32	25	14	28	110	6.70	3.38	0.80	0.76	2.08
14	0.60	0.16	34	21	16	24	102	6.36	3.38	0.76	0.80	2.54
15	0.52	0.64	35	24	16	22	112	5.34	3.14	0.72	0.88	2.66
16	0.44	1.97	37	21	16	24	167	3.26	3.02	0.68	0.92	3.65
17	0.44	5.17	39	18	16	24	173	3.65	2.90	0.72	1.16	4.40
18	0.08	5.00	40	18	17	22	173	3.38	2.90	0.68	1.53	4.55
19	0.36	5.17	40	19	14	20	173	4.10	2.66	0.64	1.86	4.55
20	0.36	5.51	41	20	18	38	170	17	2.90	0.64	1.64	4.55
21	0.12	5.63	41	19	15	55	168	20	2.19	0.64	2.08	4.40
22	0.00	8.70	38	18	18	70	167	14	2.54	0.56	2.66	5.17
23	0.00	9.90	42	3.14	17	74	162	11	1.86	0.72	2.90	4.55
24	0.00	8.32	42	3.02	18	92	151	7.60	1.97	0.72	2.66	3.14
25	0.00	11	44	9.10	18	89	136	10	1.86	0.64	1.97	1.42
26	0.28	12	42	26	17	88	134	10	1.75	0.60	1.64	1.16
27	1.31	13	40	25	19	81	150	7.60	1.64	0.56	1.53	1.00
28	0.72	10	40	30	20	88	131	2.66	1.64	0.56	1.97	0.92
29	0.12	10	40	28	19	114	104	1.53	1.64	0.52		0.92
30	0.00	12	41	28	24	113	93	1.31	1.64	0.40		0.88
31		17		32	26		80		1.64	0.40		0.92
Total	37	144	910	756	651	1,501	3,760	617	103	29	39	76
Mean	1.23	4.64	30	24	21	50	121	20	3.32	0.93	1.39	3.84
Max.	5.00	17	44	39	41	114	173	72	10	1.64	2.90	5.17
Min.	0.00	0.00	2.30	3.02	4.25	20	71	1.31	1.16	0.40	0.28	0.88
Runoff - MCM.	3.197	12.442	78.624	65.318	56.246	129.686	324.864	53.309	8.899	2.506	3.370	6.566

WATER YEAR 1965 : Max. 173 Min. 0.00 Mean 24 Annual Runoff 745.027 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	18.00	5.47	173	Oct. 28	06.00	4.88	138

WATER YEAR 1965
PHET RIVER BASIN

Phet River at Phet Barrage, Phetchaburi (B. 2A)

Location: Lat. 12° – 54' – 44" N., Long 99° – 51' – 31" E., the gage located at about 50 meters downstream from Phet Barrage, and discharge measurement made at about 500 meters downstream from Phet Barrage, Phetchaburi.

Drainage Area: 4,060 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 12.00 m. (M.S.L.)

Bench Mark:
Location: On the abutment of Phet Barrage.
Elevation: + 23.00 m. (M.S.L.)

Gage Reading Frequency: 24 – time daily readings.

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

Period of Available Gage Records: 1930 – 48, 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, shifting adjustment is negligible for flow computation due to its adequate stability.

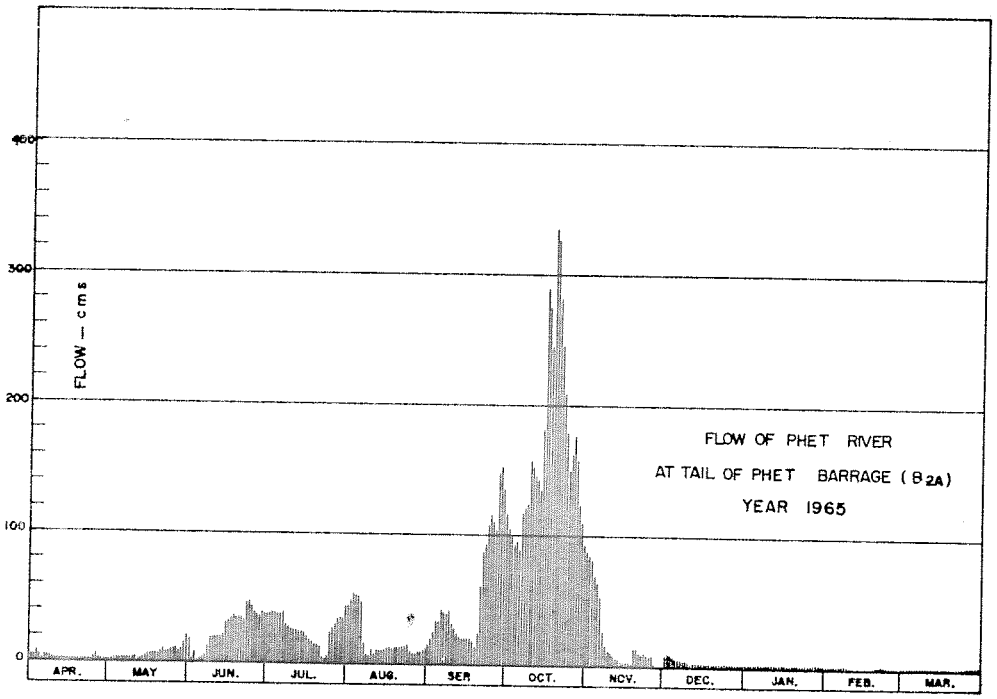
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Flow is regulated by storage dam and diversion dam upstream of the gage site, diversion for irrigation of about 27,800 hectares. Tha data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	12.14	12.05	12.39	12.78	12.90	12.35	13.83	13.55	12.10	12.10	12.07	12.07
2	.14	.05	.06	.78	.99	.46	.81	.50	.25	.10	.07	.07
3	.19	.05	.22	.78	13.05	.54	.71	.30	.25	.10	.07	.07
4	.13	.06	.05	.79	.02	.69	.64	.24	.19	.10	.07	.07
5	.06	.07	.12	.77	.01	.71	.69	.15	.15	.10	.07	.07
6	12.14	12.07	12.11	12.76	12.90	12.84	13.59	12.92	12.17	12.10	12.06	12.06
7	.14	.07	.13	.79	.23	.80	.99	.43	.15	.10	.06	.06
8	.12	.08	.29	.61	.17	.79	14.05	.35	.15	.10	.09	.03
9	.07	.08	.44	.58	.17	.85	.12	.30	.15	.10	.09	.09
10	.05	.10	.45	.53	.29	.66	.56	.27	.13	.10	.09	.09
11	12.05	12.12	12.46	12.52	12.22	12.55	14.44	12.22	12.07	12.10	12.05	12.05
12	.05	.07	.48	.52	.28	.53	.31	.15	.10	.10	.05	.05
13	.05	.06	.46	.55	.28	.45	.36	.15	.10	.10	.10	.05
14	.05	.11	.48	.52	.28	.45	.14	.13	.10	.10	.05	.05
15	.05	.13	.63	.53	.28	.45	.85	.10	.10	.10	.05	.06
16	12.05	12.18	12.70	12.45	12.30	12.45	16.21	12.10	12.10	12.10	12.05	12.06
17	.05	.18	.70	.89	.30	.43	15.59	.10	.10	.10	.05	.06
18	.05	.18	.74	.40	.29	.31	16.21	.10	.10	.10	.05	.06
19	.05	.18	.72	.36	.31	.55	.72	.34	.10	.10	.05	.06
20	.05	.18	.75	.35	.32	13.22	.40	.33	.10	.10	.05	.06
21	12.05	12.22	12.73	12.32	12.32	13.56	15.80	12.25	12.10	12.10	12.08	12.06
22	.05	.25	.69	.07	.33	.65	.33	.23	.10	.10	.08	.06
23	.05	.21	.92	.12	.35	.87	.02	.28	.10	.10	.06	.06
24	.05	.22	.92	.18	.34	.97	14.80	.20	.10	.10	.10	.06
25	.12	.26	.85	.54	.26	.97	.43	.19	.10	.10	.06	.06
26	12.15	12.26	12.77	12.60	12.20	13.85	14.80	12.23	12.10	12.10	12.06	12.06
27	.08	.28	.76	.69	.21	.73	.83	.05	.10	.10	.06	.06
28	.05	.22	.75	.75	.25	14.40	.36	.05	.10	.10	.06	.06
29	.05	.25	.80	.72	.24	.48	.00	.05	.10	.10		.06
30	.05	.33	.78	.71	.27	.11	13.89	.05	.10	.10		.07
31		.47		.88	.31		.62			.07		.06
Mean	12.08	12.16	12.54	12.56	12.41	13.05	14.62	12.41	12.12	12.09	12.06	12.06
Max.	12.19	12.47	12.92	12.88	13.05	14.48	16.72	13.55	12.25	12.10	12.10	12.09
Min.	12.05	12.05	12.05	12.07	12.17	12.31	13.59	12.05	12.10	12.07	12.05	12.05

WATER YEAR 1965 : Max. 16.72 m. Min. 12.05 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.80	2.00	18	39	46	16	106	87	4.00	4.00	2.80	2.80
2	5.80	2.00	2.40	39	52	21	105	83	11	4.00	2.80	2.80
3	8.05	2.00	9.50	39	55	26	98	70	11	4.00	2.80	2.80
4	5.35	2.40	2.00	40	54	34	93	67	8.50	4.00	2.80	2.80
5	2.40	2.80	4.90	39	53	35	96	61	6.25	4.00	2.80	2.80
6	5.80	2.80	4.45	38	46	43	89	48	7.15	4.00	2.40	2.40
7	5.80	2.80	5.35	40	10	40	117	20	6.25	4.00	2.40	2.40
8	4.90	3.20	13	30	7.15	40	121	16	6.25	4.00	3.60	3.60
9	2.80	3.20	20	28	7.15	43	126	13	6.25	4.00	3.60	3.60
10	2.00	4.00	21	25	13	32	157	12	5.35	4.00	3.60	3.60
11	2.00	4.90	21	25	9.50	26	149	9.50	2.80	4.00	2.00	2.00
12	2.00	2.80	22	25	12	25	140	6.25	4.00	4.00	2.00	2.00
13	2.00	2.40	21	26	12	21	143	6.25	4.00	4.00	4.00	2.00
14	2.00	4.45	22	25	12	21	128	5.35	4.00	4.00	2.00	2.00
15	2.00	5.35	31	25	12	21	179	4.00	4.00	4.00	2.00	2.40
16	2.00	7.60	34	21	13	21	289	4.00	4.00	4.00	2.00	4.40
17	2.00	7.60	34	18	13	20	238	4.00	4.00	4.00	2.00	4.40
18	2.00	7.60	37	18	13	14	289	4.00	4.00	4.00	2.00	2.40
19	2.00	7.60	36	16	14	26	334	15	4.00	4.00	2.00	2.40
20	2.00	7.60	37	16	14	66	305	15	4.00	4.00	2.00	2.40
21	2.00	9.50	36	14	14	87	254	11	4.00	4.00	3.20	2.40
22	2.00	11	34	2.80	15	93	217	10	4.00	4.00	3.20	2.40
23	2.00	9.00	48	4.90	16	109	192	12	4.00	4.00	2.40	2.40
24	2.00	9.50	48	7.60	15	116	175	8.50	4.00	4.00	4.00	2.40
25	4.90	11	43	26	11	116	148	8.50	4.00	4.00	2.40	2.40
26	6.25	11	39	29	8.50	107	175	10	4.00	4.00	2.40	2.40
27	3.20	12	38	34	9.00	99	177	2.00	4.00	4.00	2.40	2.40
28	2.00	9.50	37	37	11	146	143	2.00	4.00	4.00	2.40	2.40
29	2.00	11	40	36	10	152	118	2.00	4.00	4.00		2.40
30	2.00	15	39	35	12	126	110	2.00	4.00	4.00		2.80
31		22		45	14		91			2.80		2.40
Total	97	215	800	843	603	1,742	5,011	618	151	123	70	79
Mean	3.23	6.93	27	27	19	58	162	21	5.03	3.97	2.51	2.54
Max.	8.05	22	48	45	55	152	334	87	11	4.00	4.00	4.40
Min.	2.00	2.00	2.00	2.80	7.15	14	91	2.00	4.00	2.80	2.00	2.00
Runoff - mcm.	8.381	18.576	69.120	72.835	52.099	150.509	432.950	53.395	13.046	10.627	6.048	6.827

WATER YEAR 1965 : Max. 334 Min. 2.00 Mean 28 Annual Runoff 894.413 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	03.00	16.85	345				

WATER YEAR 1965
PHET RIVER BASIN

Phet River at Song Pee Nong, Phetchaburi (B. 3)

Location: Lat. 12° – 52' – 04" N., Long 99° – 40' – 40" E., at Tambon Song Pee Nong, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 2,244 sq. km. referred to AMS. Map 1L50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 41.00 m. (M.S.L.)

Bench Mark:
Location: On the left bank near the upper gage.
Elevation: + 48.632 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1930 – 42, 1954 to date.

Rating Operation:
Period of Rating: 1954 – 59.
Rated by Float: –
Rated by Current Meter: 1954 – 59.

Stability of Channel Regimes: Fairly stable, shifting adjustment is not included for flow computation for years without actual rating.

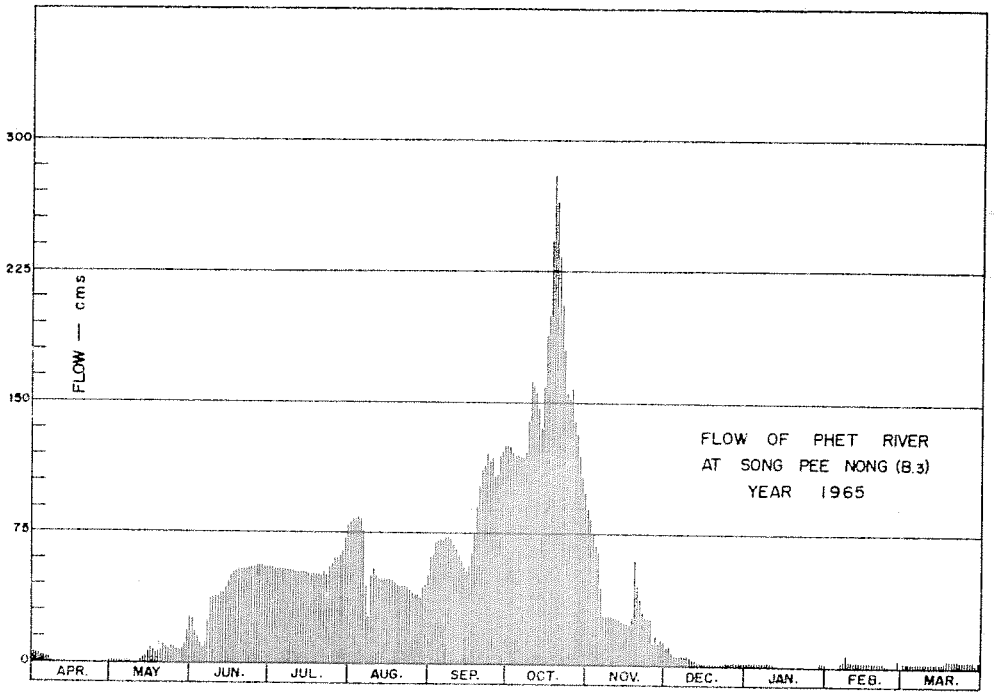
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. stage-discharge relationship used is difined by discharge measurements made during 1954-59. Flow is regulated by Kaeng Kra Chan Reservoir. The data presented is from actual observation at the gage site. no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	41.93	41.76	42.36	42.76	43.03	42.82	43.42	43.10	42.06	41.75	41.60	41.79
2	.93	.75	.24	.76	.05	.83	.41	.04	.07	.75	.60	.79
3	.91	.75	.18	.75	.05	.91	.39	42.96	41.98	.75	.59	.79
4	.86	.75	.11	.75	.06	.92	.37	.89	.92	.75	.59	.79
5	.85	.75	.05	.74	.05	.93	.37	.84	.92	.74	.59	.79
6	41.84	41.75	42.09	42.74	42.98	42.92	43.36	42.62	41.92	41.74	41.82	41.79
7	.82	.75	.34	.74	.62	.94	.36	.40	.92	.74	.82	.79
8	.66	.75	.53	.74	.38	.94	.39	.40	.92	.74	.96	.79
9	.62	.65	.53	.73	.70	.93	.53	.39	.92	.74	.83	.79
10	.60	.62	.55	.73	.50	.90	.69	.39	.89	.74	.82	.79
11	41.59	41.69	42.55	42.72	42.70	42.87	43.68	42.38	41.84	41.69	41.82	41.79
12	.59	.79	.57	.72	.68	.83	.65	.37	.83	.63	.82	.79
13	.59	.83	.58	.72	.68	.79	.57	.36	.80	.61	.81	.79
14	.58	.88	.63	.72	.68	.75	.50	.34	.74	.60	.81	.79
15	.58	.98	.65	.72	.67	.72	.67	.33	.73	.60	.81	.79
16	41.57	42.03	42.71	42.71	42.67	42.76	43.87	42.32	41.73	41.60	41.81	41.79
17	.57	41.99	.72	.71	.66	.85	.94	.31	.72	.60	.81	.79
18	.57	.95	.73	.71	.65	.96	44.20	.38	.72	.60	.81	.87
19	.56	.97	.74	.71	.64	43.12	.42	.80	.72	.60	.81	.86
20	.56	.99	.74	.71	.63	.23	.33	.63	.72	.60	.81	.86
21	41.55	42.08	42.75	42.22	42.63	43.31	44.15	42.53	41.72	41.60	41.81	41.86
22	.55	.04	.75	.72	.62	.32	43.97	.42	.72	.60	.77	.86
23	.55	.02	.75	.70	.61	.38	.81	.38	.72	.60	.73	.83
24	.55	.06	.76	.76	.60	.35	.64	.38	.75	.60	.69	.83
25	.55	.04	.76	.78	.58	.36	.62	.38	.75	.60	.63	.83
26	41.54	42.01	42.77	42.81	42.56	43.27	43.66	42.11	41.75	41.59	41.62	41.83
27	.54	41.99	.77	.81	.56	.28	.52	.21	.75	.58	.65	.83
28	.54	42.02	.77	.83	.55	.37	.47	.12	.75	.58	.85	.83
29	.68	.10	.76	.86	.61	.40	.37	.17	.75	.76		.66
30	.76	.24	.76	.94	.64	.42	.27	.15	.75	.76		.83
31		.37		43.01	.70		.18		.75	.75		.84
Mean	41.65	41.86	42.57	42.78	42.71	43.02	43.64	42.47	42.84	41.66	41.75	41.81
Max.	41.93	42.37	42.77	43.01	43.06	43.42	44.42	43.04	42.07	41.76	41.96	41.87
Min.	41.54	41.62	42.05	42.22	42.55	42.72	43.18	42.11	41.73	41.58	41.59	41.66

WATER YEAR 1965 : Max. 44.42 m. Min. 41.54 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	5.90	1.90	26	56	82	62	126	89	10	1.75	0.00	2.35
2	5.90	1.75	19	56	84	63	125	83	11	1.75	0.00	2.35
3	5.30	1.75	16	55	84	70	122	75	7.40	1.75	0.00	2.35
4	4.00	1.75	12	55	85	71	120	68	5.60	1.75	0.00	2.35
5	3.75	1.75	10	55	84	72	120	64	5.60	1.60	0.00	2.35
6	3.50	1.75	12	55	77	71	119	45	5.60	1.60	3.00	2.35
7	3.00	1.75	25	55	45	73	119	28	5.60	1.60	3.00	2.35
8	0.60	1.75	38	55	27	73	122	28	5.60	1.60	6.80	2.35
9	0.20	0.50	38	54	51	72	140	28	5.60	1.60	3.25	2.35
10	0.00	0.20	39	54	35	69	162	28	4.75	1.60	3.00	2.35
11	0.00	0.90	39	53	51	66	160	27	3.50	0.90	3.00	2.35
12	0.00	2.35	41	53	49	63	156	27	3.25	0.30	3.00	2.35
13	0.00	3.25	41	53	49	59	145	26	2.50	0.10	2.75	2.35
14	0.00	4.50	45	53	49	55	136	25	1.60	0.00	2.75	2.35
15	0.00	7.40	47	53	49	53	159	24	1.45	0.00	2.75	2.35
16	0.00	9.20	52	52	49	56	189	24	1.45	0.00	2.75	2.35
17	0.00	7.70	53	52	48	64	200	23	1.30	0.00	2.75	2.35
18	0.00	6.50	54	52	47	75	242	27	1.30	0.00	2.75	4.25
19	0.00	7.10	55	52	46	91	280	60	1.30	0.00	2.75	4.00
20	0.00	7.70	55	52	45	103	265	45	1.30	0.00	2.75	4.00
21	0.00	11	55	18	45	112	234	38	1.30	0.00	2.75	4.00
22	0.00	9.60	55	53	45	114	205	30	1.30	0.00	2.05	4.00
23	0.00	8.80	55	51	44	121	180	27	1.30	0.00	1.45	3.25
24	0.00	10	56	56	43	117	155	27	1.75	0.00	0.90	3.25
25	0.00	9.60	56	58	41	119	152	27	1.75	0.00	0.30	3.25
26	0.00	8.40	57	61	40	108	158	12	1.75	0.00	0.20	3.25
27	0.00	7.70	57	61	40	109	139	17	1.75	0.00	0.50	3.25
28	0.00	8.80	57	63	39	120	132	13	1.75	0.00	3.75	3.25
29	0.80	12	56	65	44	123	120	15	1.75	1.90		0.60
30	1.90	19	56	73	46	126	108	14	1.75	1.90		3.25
31		27		80	51		98		1.75	1.75		3.50
Total	35	186	1,276	1,747	1,634	2,550	5,008	1,064	103	23	56	87
Mean	1.16	6.01	42	56	53	85	161	35	3.34	0.76	2.00	2.81
Max.	5.90	27	57	80	85	126	280	89	11	1.90	6.80	4.25
Min.	0.00	0.20	10	18	27	53	98	12	1.30	0.00	0.00	0.60
Runoff - MCM.	3.024	16.070	110.246	150.941	141.178	220.320	432.691	91.930	8.899	1.987	4.838	7.517

WATER YEAR 1965 : Max. 280 Min. 0.00 Mean 38 Annual Runoff 1,189.642 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 19	09.00	44.47	289				

WATER YEAR 1965
PHET RIVER BASIN

Phet River at Takhian Ha-Bat, Phetchaburi (B. 5)

Location: Lat. 12° - 54' - 40" N., Long 99° - 38' - 38" E., about 1 kilometer downstream from Kaeng Kra Chan Dam, Amphoe Tha Yang, Phetchburi.

Drainage Area: 2,207 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 48.485 m. (M.S.L.)

Bench Mark:
- Location: Location infront of the station office of B. 5.
- Elevation: + 58.829 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 which is adequate to represent its mean daily value.

Period of Available Gage Records: 1962 to date.

Rating Operation:
- Period of Rating: 1963 to date.
- Rated by Float: -
- Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Unstable, periodic rating curves are used for flow computation to take care of backwater causing by dumping the water at the downstream of the gage through dike No. 2.

Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as fair. Flow is regulated by Kaeng Kra Chan Reservoir which is under construction. The data presented is from actual ovservation at the gage site, adjusted runoff if without Kaeng Kra Chan is shown below.

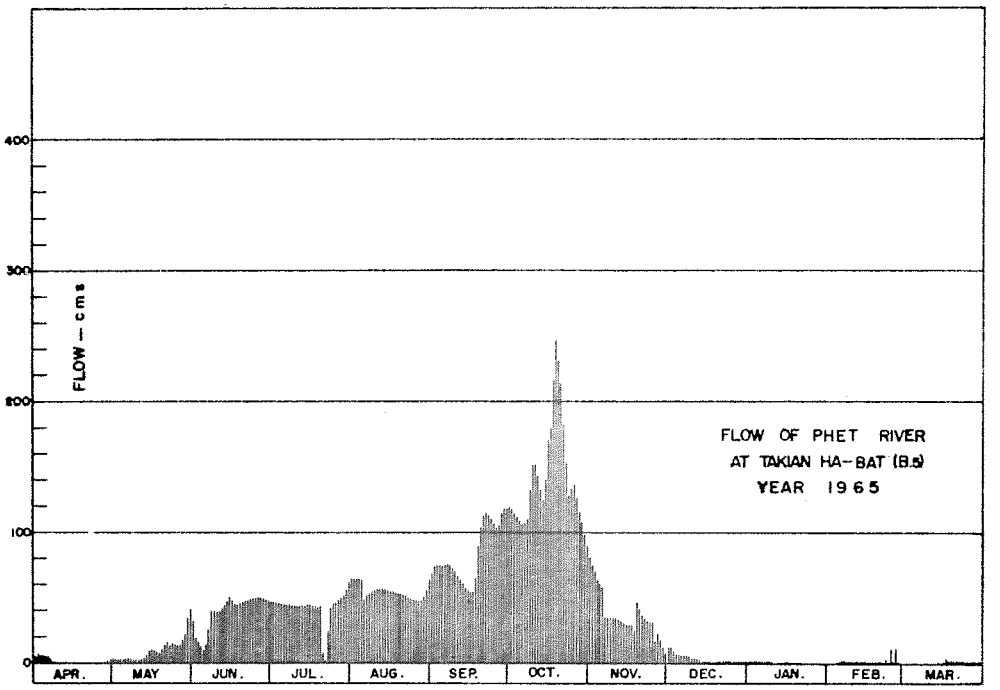
Remark:

Month	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Annual
Adjusted Run off mcm.	10	33	172	175	151	232	364	78	26	15	9	6	1,271

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	48.49	48.40	49.15	49.39	49.65	49.77	50.51	50.57	49.28	48.57	48.18	48.51
2	.59	.40	48.90	.39	.64	.84	.52	.49	.28	.57	.18	.50
3	.53	.40	.84	.38	.64	.90	.48	.38	.16	.57	.18	.50
4	.49	.40	.72	.37	.64	.96	.45	.32	48.98	.58	.18	.50
5	.49	.41	.68	.37	.63	.97	.41	.24	.98	.58	.51	.49
6	48.49	48.42	48.77	49.36	48.93	49.94	50.31	49.92	48.98	48.58	48.66	48.49
7	.33	.43	49.05	.36	.73	.92	.33	.69	.98	.58	.66	.49
8		.41	.27	.35	49.11	.88	.28	.68	.98	.58	.39	.49
9		.41	.28	.34	.22	.85	.54	.68	.92	.58	.57	.49
10		.40	.27	.34	.16	.83	.77	.68	.79	.58	.58	.49
11		48.40	49.28	49.34	49.29	49.78	50.80	49.68	48.79		48.59	48.49
12		.41	.30	.34	.41	.72	.76	.67	.79		.59	.49
13		.46	.33	.34	.57	.69	.69	.63	.68		.59	.49
14		.56	.38	.33	.61	.64	.63	.61	.49		.60	.49
15		.67	.46	.34	.70	.61	.75	.59	.49		.60	.49
16		48.69	49.41	49.34	49.67	49.58	51.02	49.58	48.49		48.60	48.49
17		.68	.36	.33	.68	.59	.08	.58	.49		.60	.80
18		.62	.36	.33	.70	.73	.25	.66	.49		.61	.67
19		.58	.38	.32	.71	50.04	.46	50.25	.49		.61	.67
20		.69	.39	.31	.67	.15	.53	.13	.49		.61	.67
21		48.78	49.40	48.64	49.61	50.30	51.42	50.02	48.49		48.61	48.67
22		.81	.41	.18	.59	.41	.25	49.92	.49		.58	.62
23		.75	.41	.97	.58	.45	.16	.83	.57		49.11	.59
24		.80	.42	49.32	.56	.44	.03	.83	.57			.59
25		.78	.42	.34	.55	.43	.00	.83	.57		49.43	.59
26		48.75	49.42	49.37	49.54	50.41	51.01	49.29	48.57			48.59
27		.80	.43	.40	.54	.39	50.96	.52	.57		50.09	.59
28	48.32	.88	.43	.42	.54	.43	.92	.37	.57	48.83	48.51	.59
29	.36	.99	.41	.44	.57	.47	.83	.15	.58	.23		.61
30	.40	49.16	.39	.52	.61	.48	.73	.02	.58	.18		.61
31		.31		.62	.68		.61		.58	.18		.61
Mean		48.63	49.25	49.29	49.50	50.02	50.82	49.79	48.71		48.63	48.56
Max.		49.31	49.46	49.62	49.71	50.48	51.53	50.57	49.28		50.09	48.80
Min.		48.40	48.68	48.18	48.73	49.58	50.28	49.02	48.49		48.18	48.49

WATER YEAR 1965 : Max. 51.53 m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.56	2.40	32	47	64	68	119	80	12	1.49	0.00	1.07
2	7.32	2.40	19	47	64	73	117	75	12	1.49	0.00	1.00
3	5.64	2.40	17	46	64	74	114	68	9.62	1.49	0.00	1.00
4	4.56	2.40	12	45	64	74	111	64	6.10	1.56	0.00	1.00
5	4.56	2.64	10	45	63	73	109	60	6.10	1.56	1.05	0.95
6	4.56	2.88	14	45	47	74	105	57	6.10	1.56	2.24	0.95
7	1.35	3.12	27	45	51	75	107	34	6.10	1.56	2.24	0.95
8	0.00	2.64	39	44	53	74	109	34	6.10	1.56	0.47	0.95
9	0.00	2.64	40	44	54	72	130	34	5.20	1.56	1.49	0.95
10	0.00	2.40	39	44	55	69	151	34	3.50	1.56	1.56	0.95
11	0.00	2.40	40	44	56	65	151	34	3.50	0.00	1.63	0.95
12	0.00	2.64	41	44	56	62	141	33	3.50	0.00	1.63	0.95
13	0.00	3.84	43	44	56	60	132	31	2.42	0.00	1.63	0.95
14	0.00	6.48	46	43	56	57	123	30	0.95	0.00	1.70	0.95
15	0.00	9.84	51	44	54	54	136	29	0.95	0.00	1.70	0.95
16	0.00	10	48	44	54	54	169	29	0.95	0.00	1.70	0.95
17	0.00	10	45	43	54	54	178	29	0.95	0.00	1.70	3.60
18	0.00	8.24	45	43	53	66	213	25	0.95	0.00	1.79	2.33
19	0.00	7.04	46	42	52	91	246	46	0.95	0.00	1.79	2.33
20	0.00	10	47	42	52	104	229	41	0.95	0.00	1.79	2.33
21	0.00	14	47	8.88	51	112	201	37	0.95	0.00	1.79	2.33
22	0.00	15	48	0.00	51	114	171	34	0.95	0.00	0.77	1.88
23	0.00	13	48	23	50	113	153	31	1.49	0.00	3.62	1.63
24	0.00	15	49	42	48	110	127	31	1.49	0.00	0.00	1.63
25	0.00	14	49	44	48	107	132	31	1.49	0.00	11	1.63
26	0.00	13	49	45	47	103	136	16	1.49	0.00	0.00	1.63
27	0.00	15	49	47	47	106	125	22	1.49	0.00	12	1.63
28	1.20	18	49	49	47	114	115	18	1.49	13	1.07	1.63
29	1.80	24	48	50	51	118	105	13	1.56	0.19		1.79
30	2.40	33	47	55	54	118	95	6.78	1.56	0.00		1.79
31		42		62	61		89		1.56	0.00		1.79
Total	38	312	1,184	1,311	1,677	2,508	4,339	1,107	104	28	56	45
Mean	1.27	10	39	42	54	84	140	37	3.35	0.90	2.00	1.45
Max.	7.32	42	49	62	64	118	246	80	12	13	12	3.60
Min.	0.00	2.40	10	0.00	47	54	89	6.78	0.95	0.00	0.00	0.95
Runoff - mcm.	3.283	26.957	102.298	113.270	144.893	216.691	374.890	95.645	8.986	2.419	4.838	3.888

WATER YEAR 1965 : Max. 246 Min. 0.00 Mean 35 Annual Runoff 1,098.058 mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
PHET RIVER BASIN

Huai Mae Prachan at Tha Yang, Phetchaburi (B. 6)

Location: Lat. 12° – 55' – 56" N., Long. 99° – 47' – 05" E., 250 meters upstream from highway bridge, Mae Prachan, Amphoe Tha Yang, Phetchaburi.

Drainage Area: 1,015 sq. km. referred to AMS. Map. 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 22.71 M. (M.S.L.)

Bench Mark:
- Location: On both banks along the gage line.
- Elevation: BM. 1-B. 6+29.580 m. (M.S.L.) on the right bank, and BM. 2-B.6 +30.223 m. (M.S.L.) on the left bank.

Gage Reading Frequency: Recording

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

Period of Available Gage Records: 1942 – 48, 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: Unstable, periodic rating curves are used for flow computation.

Overbank Flow Conditions: No overbank flow.

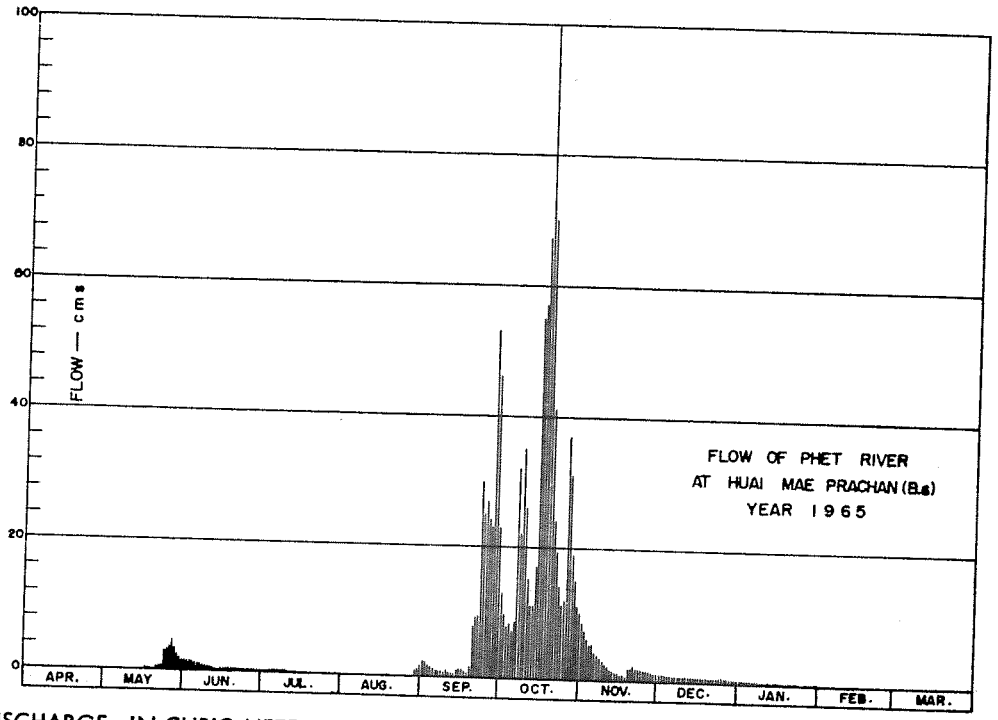
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on May 14,1965 and no gage height record for Aug. 1-31, 1965.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			23.93	23.59		24.11	24.73	24.51	23.71	23.57	23.45	23.40
2			.92	.59		.10	.56	.44	.71	.57	.44	.40
3			.92	.60		.04	.47	.37	.70	.57	.44	.40
4			.90	.65		.02	.49	.32	.69	.57	.43	.58
5			.88	.64		.00	.43	.22	.68	.57	.43	.53
6			23.87	23.69		23.96	24.51	24.24	23.66	23.55	23.44	23.48
7			.87	.68		.95	25.36	.21	.66	.55	.46	.44
8			.84	.67		.95	.04	.18	.65	.55	.43	.43
9			.82	.65		.92	.46	.15	.65	.53	.43	.41
10			.78	.61		.97	.20	.11	.63	.52	.42	.40
11			23.76	23.58		23.92	24.78	24.08	23.63	23.52	23.42	23.40
12			.73	.57		.88	.61	.03	.64	.52	.41	.39
13			.71	.55		.87	.61	.01	.64	.51	.41	.39
14		23.58	.70	.57		.98	.89	23.98	.64	.51	.41	.39
15		.55	.68	.55		24.00	25.95	.95	.62	.50	.41	.39
16		23.58	23.67	23.53		23.99	26.01	23.92	23.62	23.49	23.41	23.38
17		.71	.68	.53		.95	.14	.91	.64	.50	.40	.38
18		.69	.68	.54		.90	.85	.89	.63	.49	.40	.37
19		.66	.67	.52		24.03	.27	.88	.63	.49	.40	.37
20		.63	.66	.51		.47	25.60	.90	.61	.48	.40	.36
21		23.76	23.66	23.50		24.54	25.12	23.95	23.60	23.49	23.40	23.36
22		.77	.65	.50		.55	24.96	.87	.61	.48	.40	.35
23		.77	.65	.51		25.30	.75	.87	.62	.47	.39	.35
24		24.12	.64	.52		.17	.64	.84	.63	.47	.39	.35
25		.13	.63	.54		.22	.67	.82	.65	.47	.40	.35
26		24.17	23.61	23.53		25.13	25.50	23.80	23.61	23.47	23.45	23.34
27		.25	.61	.53		.08	.33	.78	.61	.47	.44	.34
28		.15	.61	.54		.92	24.94	.76	.60	.46	.43	.34
29		.05	.61	.54		.74	.71	.75	.60	.45		.34
30		.00	.60	.53		.09	.63	.73	.61	.45		.33
31		23.95		.53			.59		.59	.45		.32
Mean			23.73	23.57		24.44	25.09	24.01	23.62	23.51	23.42	23.39
Max.			23.93	23.69		25.92	26.85	24.51	23.71	23.57	23.46	23.58
Min.			23.60	23.50		23.87	24.43	23.73	23.59	23.45	23.39	23.32

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1			1.56	0.35		2.37	13	8.60	0.95	0.41	0.12	0.05
2			1.48	0.35		2.25	9.60	7.32	0.95	0.41	0.11	0.05
3			1.48	0.39		1.65	7.86	6.10	0.90	0.41	0.11	0.05
4			1.34	0.44		1.45	8.22	5.28	0.86	0.41	0.09	0.44
5			1.23	0.43		1.25	7.14	5.28	0.82	0.41	0.09	0.29
6			1.17	0.49		0.97	8.60	4.05	0.74	0.35	0.11	0.17
7			1.17	0.48		0.90	32	3.60	0.74	0.35	0.14	0.11
8			1.00	0.47		0.90	22	3.21	0.70	0.35	0.09	0.09
9			0.89	0.44		0.69	35	2.85	0.70	0.29	0.09	0.06
10			0.70	0.40		1.04	26	2.37	0.62	0.26	0.08	0.05
11			0.62	0.32		0.69	15	2.05	0.62	0.26	0.08	0.05
12			0.51	0.28		0.46	11	1.55	0.66	0.26	0.06	0.04
13			0.43	0.21		0.41	11	1.35	0.66	0.23	0.06	0.04
14		0.14	0.39	0.28		1.11	17	1.11	0.66	0.23	0.06	0.04
15		0.10	0.48	0.21		1.25	55	0.90	0.58	0.20	0.06	0.04
16		0.14	0.47	0.14		1.18	57	0.69	0.58	0.18	0.06	0.04
17		0.43	0.48	0.14		0.90	63	0.62	0.66	0.20	0.05	0.04
18		0.37	0.48	0.18		0.55	100	0.50	0.62	0.18	0.05	0.03
19		0.30	0.47	0.11		1.55	70	1.80	0.62	0.18	0.05	0.03
20		0.24	0.46	0.07		7.86	41	1.90	0.54	0.17	0.05	0.03
21		0.62	0.46	0.04		9.20	24	2.15	0.50	0.18	0.05	0.03
22		0.66	0.44	0.04		9.40	19	1.75	0.54	0.17	0.05	0.02
23		0.66	0.44	0.07		30	14	1.75	0.58	0.15	0.04	0.02
24		3.15	0.43	0.11		25	11	1.60	0.62	0.15	0.04	0.02
25		3.26	0.42	0.18		27	12	1.50	0.70	0.15	0.05	0.02
26		3.72	0.40	0.14		24	37	1.40	0.54	0.15	0.12	0.02
27		4.83	0.40	0.14		23	31	1.30	0.54	0.15	0.11	0.02
28		3.49	0.40	0.18		53	19	1.20	0.50	0.14	0.09	0.02
29		2.49	0.40	0.18		46	13	1.15	0.50	0.12		0.02
30		2.06	0.39	0.14		23	11	1.05	0.54	0.12		0.01
31		1.70		0.14			10		0.47	0.12		0.01
Total			21	7.55		299	810	76	20	7.34	2.22	2.01
Mean			0.70	0.24		9.97	26	2.53	0.65	0.24	0.08	0.06
Max.			1.56	0.49		53	100	8.60	0.95	0.41	0.14	0.44
Min.			0.39	0.04		0.41	7.14	0.50	0.47	0.12	0.04	0.01
Runoff - MCM.			1.814	0.652		25.834	69.984	6.566	1.728	0.634	0.191	0.174

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
PRAN RIVER BASIN

Pran River at Khao Noi, Prachuap Khiri Khan (Pr. 2)

Location: Lat. 12° – 24' – 41" N., Long 99° – 51' – 01" E., on the right bank of the river, about 16 kilometers from Amphoe Pran Buri on the way to Pran Buri Damsite, Prachuap Khiri Khan.

Drainage Area: 2,370 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 2.56 m. (M.S.L.)

Bench Mark: BM. – H.S./R.I.D.
Location: Infront of the station office of Pr. 2
Elevation: BM. – 1 Pr. 2 + 13.299 m. (M.S.L.), and BM. 2 Pr. 2 + 211 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 16 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1963 to date.

Rating Operation:
Period of Rating: 1963 to date.
Rated by Float: –
Rated by Current Meter: 1963 to date.

Stability of Channel Regimes: Fairly stable, shifting adjustment is also included for flow computation.

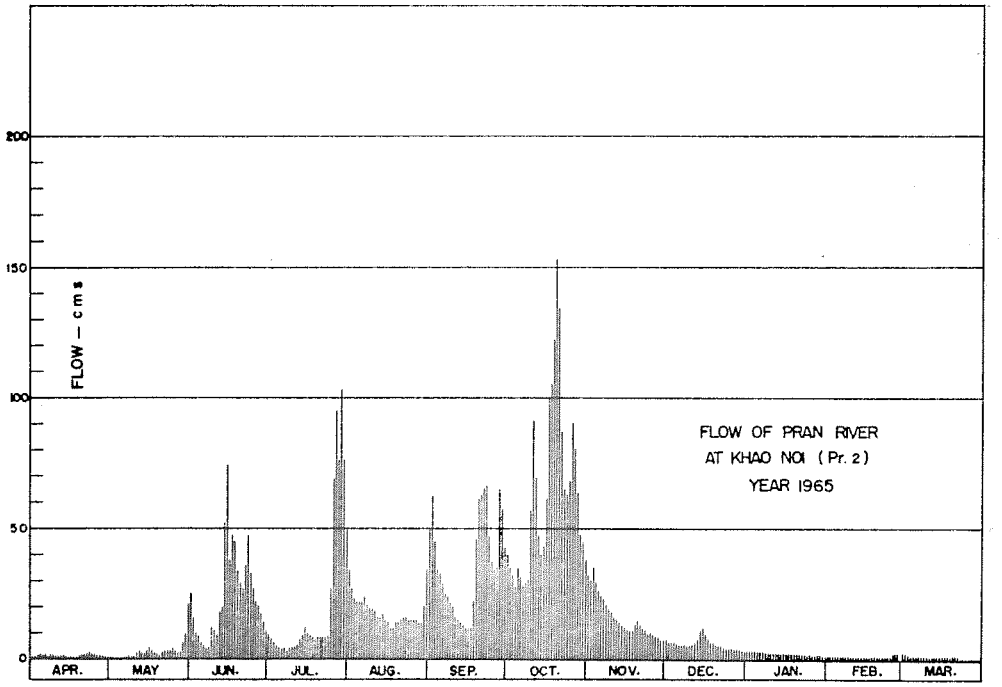
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. Water is utilized as supplemental irrigation for sugar cane plantation upstream of the gage site. The data presented is from actual observation at the gage site, no adjustment made for virgin flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	4.48	4.50	6.41	5.66	7.20	7.82	7.43	6.87	5.17	4.85	4.62	4.75
2	.48	.47	5.83	.52	6.76	8.39	.18	.78	.15	.83	.61	.70
3	.52	.45	.44	.41	.52	7.56	.01	7.05	.12	.82	.60	.65
4	.54	.43	.29	.32	.45	6.99	6.77	6.72	.10	.81	.61	.62
5	.54	.42	.14	.24	.49	.94	7.17	.53	.07	.80	.61	.63
6	4.52	4.41	5.01	5.18	6.47	6.67	6.82	6.40	5.07	4.79	4.59	4.63
7	.50	.51	4.94	.14	.44	.47	.66	.32	.07	.78	.59	.59
8	.51	.53	5.01	.10	.30	.36	.69	.21	.05	.77	.58	.56
9	.59	.50	.64	.08	.15	.24	.80	.10	.04	.77	.57	.55
10	.59	.54	.65	.09	.12	.10	8.19	5.99	.02	.76	.57	.54
11	4.56	4.79	5.50	5.09	6.11	5.97	9.56	5.89	5.03	4.75	4.57	4.55
12	.54	.81	6.20	.11	5.96	.87	8.69	.81	.14	.74	.56	.56
13	.53	.77	.33	.24	.95	.78	7.66	.73	.21	.73	.56	.57
14	.51	.73	8.14	.40	.99	.72	.34	.68	.50	.72	.55	.54
15	.50	.89	9.18	.69	.87	.68	.56	.61	.54	.72	.54	.52
16	4.50	5.00	8.56	5.52	5.81	5.67	8.46	5.56	5.35	4.71	4.54	4.53
17	.51	4.84	.04	.45	.69	.65	9.98	.52	.22	.70	.54	.56
18	.50	.73	7.98	.39	.67	6.30	10.01	.55	.14	.69	.54	.57
19	.54	.69	.38	.34	.80	7.66	.59	.69	.09	.69	.53	.54
20	.61	.63	.11	.33	.83	8.36	11.58	.81	.07	.68	.52	.51
21	4.64	4.72	6.99	5.34	5.85	8.46	11.07	5.64	5.03	4.67	4.52	4.50
22	.77	.88	7.52	.35	.98	.55	9.46	.53	4.99	.66	.51	.48
23	.74	.87	8.05	.29	.96	.57	8.55	.55	.98	.65	.52	.45
24	.68	.86	7.35	.37	.90	7.67	.47	.45	.97	.65	.51	.44
25	.62	.95	6.99	6.61	.85	.20	.71	.39	.95	.65	.53	.43
26	4.59	4.83	6.68	8.68	5.86	7.03	9.51	5.34	4.94	4.64	4.72	4.42
27	.55	.76	.39	9.57	.85	.06	.14	.30	.92	.64	.74	.41
28	.54	.77	.20	8.87	.83	8.47	8.43	.27	.91	.65	.77	.40
29	.52	5.14	5.99	9.87	.81	.14	7.66	.23	.89	.65		.39
30	.52	.37	.81	.15	6.13	7.60	.57	.20	.88	.64		.39
31		6.16		8.03	.99		.19		.86	.63		.43
Mean	4.55	4.77	6.55	6.07	6.11	7.03	8.31	5.88	5.07	4.71	4.57	4.52
Max.	4.77	6.16	9.18	9.87	7.20	8.57	11.58	7.05	5.54	4.85	4.77	4.75
Min.	4.48	4.41	4.94	5.08	5.67	5.65	6.66	5.20	4.86	4.63	4.51	4.39

WATER YEAR 1965 : Max. 11.58 m. Min. 4.39 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.80	0.86	25	9.72	34	50	40	32	7.08	3.60	1.82	2.80
2	0.80	0.72	16	8.04	27	62	35	30	6.84	3.44	1.76	2.40
3	1.04	0.64	10	6.72	23	45	32	35	6.49	3.36	1.70	2.00
4	1.16	0.56	8.52	5.72	22	34	28	29	6.27	3.28	1.76	1.82
5	1.16	0.52	6.72	4.84	22	33	35	26	5.94	3.20	1.76	1.88
6	1.04	0.48	5.28	4.24	22	29	31	24	5.94	3.12	1.64	1.82
7	0.92	0.92	4.51	4.08	24	25	28	23	5.94	3.04	1.64	1.64
8	0.98	1.04	4.95	3.60	21	24	29	21	5.72	2.96	1.58	1.40
9	1.46	0.98	12	4.84	19	22	30	19	5.61	2.96	1.52	1.34
10	1.46	1.22	11	4.95	19	20	57	18	5.39	2.88	1.52	1.28
11	1.28	2.96	9.24	4.95	18	16	91	16	5.50	2.80	1.52	1.34
12	1.16	3.12	18	5.83	16	15	69	15	6.72	2.72	1.46	1.40
13	1.10	2.80	20	7.32	16	14	47	14	7.56	2.64	1.46	1.46
14	0.98	2.48	52	9.24	17	13	40	13	11	2.56	1.40	1.28
15	0.92	3.76	74	12	15	12	43	12	12	2.56	1.34	1.16
16	0.92	4.62	38	10	14	12	61	11	9.24	2.48	1.34	1.16
17	0.98	3.36	47	9.24	12	12	100	11	7.68	2.40	1.34	1.40
18	0.92	2.48	45	8.52	12	22	105	11	6.72	2.32	1.34	1.46
19	1.16	2.16	34	7.92	14	46	122	13	6.16	2.32	1.28	1.28
20	1.58	1.76	29	8.52	14	61	153	15	5.94	2.24	1.22	1.10
21	1.76	2.40	27	8.64	15	63	134	13	5.50	2.16	1.22	1.04
22	2.72	3.68	36	8.76	16	65	87	12	5.06	2.08	1.16	0.92
23	2.48	3.60	47	8.04	16	66	65	11	4.95	2.00	1.22	0.76
24	2.00	3.52	33	9.00	15	47	63	10	4.84	2.00	1.16	0.72
25	1.58	4.24	27	27	15	37	68	10	4.62	2.00	1.28	0.68
26	1.40	3.28	22	69	15	34	90	9.12	4.51	1.94	2.56	0.64
27	1.16	2.72	20	95	15	35	80	8.64	4.32	1.94	2.72	0.60
28	1.10	2.80	17	76	14	65	63	8.28	4.24	2.00	2.96	0.56
29	0.98	6.27	14	103	14	57	47	7.80	3.92	2.00		0.52
30	0.98	9.48	11	76	20	43	45	7.44	3.84	1.94		0.52
31		21		50	34		38		3.68	1.88		0.68
Total	38	100	724	871	570	1,079	1,956	485	189	79	45	39
Mean	1.26	3.23	24	28	18	36	63	16	6.10	2.54	1.60	1.26
Max.	2.72	21	74	103	34	66	153	35	12	3.60	2.96	2.80
Min.	0.80	0.48	4.51	3.60	12	12	28	7.44	3.68	1.88	1.16	0.52
Runoff - MCM.	3.283	8.677	62.573	75.231	49.248	93.226	168.998	41.928	16.348	6.810	3.860	3.375

WATER YEAR 1965 : Max. 153 Min. 0.48 Mean 17 Annual Runoff 533.520 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Oct. 20	16.00	11.66	156	Jul. 27	03.00	9.96	106

WATER YEAR 1965
PRAN RIVER BASIN

Pran River at Khao Tok Nam, Prachuap Khiri Khan (Pr. 3)

Location: Lat. 12° – 28' – 26" N., Long 99° – 48' – 28" E., about 2 kilometers upstream from Pran River Project office, and about 30 kilometers from Amphoe Pran Buri, Prachuap Khiri Khan.

Drainage Area: 2,053 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 18.717 m. (M.S.L.)

Bench Mark: H.S./R.I.D.
- Location: On the left bank of the river near the station office of Pr. 3.
- Elevation: BM. – R.I.D. No. 465 + 30.273 m. (M.S.L.), and BM. – R.I.D. No. 466 + 30.283 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 which is adequate to represent its mean daily value.

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, shifting adjustment is included for flow computation.

Overbank Flow Conditions: No overbank flow.

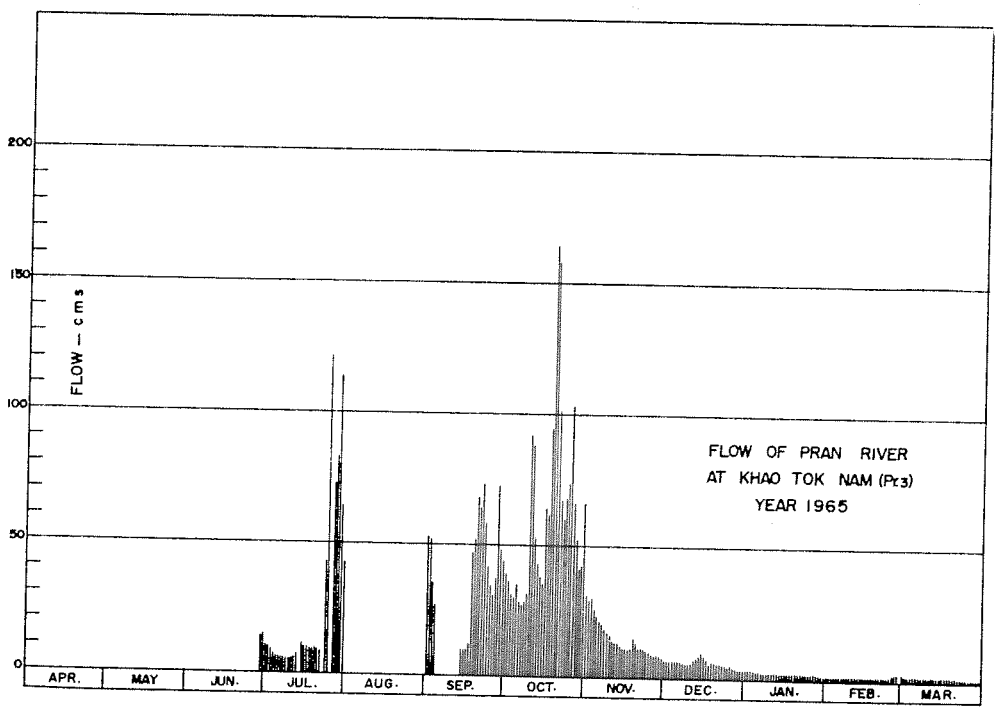
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: Gage height began to record on Jun. 29,1965 and no gage height record for some day on Jul. Aug. and Sep. 1965.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				22.14		23.70	23.14	22.87	21.78	21.61	21.48	21.55
2				.06		.67	.06	.82	.78	.61	.48	.50
3				.01		.15	22.89	.84	.76	.61	.48	.47
4				21.96		22.87	.85	.67	.75	.60	.48	.47
5				.91			23.02	.57	.76	.59	.47	.49
6				21.90			22.78	22.49	21.75	21.59	21.46	21.45
7				.86			.75	.43	.74	.58	.46	.42
8				.85		22.09	.78	.37	.73	.58	.45	.41
9				.86			.93	.30	.72	.57	.45	.41
10				.84			24.57	.24	.72	.57	.45	.42
11				21.87			24.49	22.18	21.73	21.57	21.44	21.42
12				.89			23.57	.14	.80	.57	.44	.44
13				.97			.23	.06	.87	.56	.43	.42
14						22.10	.11	.06	.87	.56	.42	.41
15				22.12		.08	.03	.02	22.01	.55	.42	.41
16				22.03		22.09	23.87	22.00	21.87	21.55	21.41	21.41
17				.01		.08	.81	21.99	.81	.55	.41	.44
18				21.95		23.40	24.63	22.03	.73	.54	.40	.41
19				.95		.56	26.12	.21	.76	.54	.40	.40
20				.99		.98	.00	.13	.74	.53	.40	.39
21				21.95		23.87	24.80	22.03	21.71	21.53	21.40	21.39
22				.92		24.12	23.96	21.99	.70	.52	.40	.37
23						23.71	.77	.99	.69	.52	.40	.36
24				23.32		.20	.98	.94	.68	.51	.40	.35
25				25.27		22.99	24.11	.91	.67	.51	.45	.34
26						22.93	24.82	21.88	21.67	21.51	21.52	21.32
27				24.16		23.08	23.93	.86	.66	.51	.56	.31
28				.41		24.10	.57	.88	.65	.51	.56	.30
29			22.27	25.13		23.44	.20	.82	.64	.50		.30
30			.23	23.89		.30	.26	.81	.63	.49		.34
31				.33			.94		.62	.49		.32
Mean							23.74	22.18	21.74	21.55	21.45	21.40
Max.							26.12	22.87	22.01	21.61	21.56	21.55
Min.							22.75	21.81	21.62	21.49	21.40	21.30

WATER YEAR 1965 : Max. m. Min. m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1				11		53	39	31	6.70	3.11	1.84	2.50
2				10		52	36	29	6.70	3.11	1.84	2.00
3				9.25		35	31	30	6.40	3.11	1.84	1.76
4				7.30		27	30	25	6.25	3.00	1.84	1.76
5				6.55			35	23	6.40	2.90	1.76	1.92
6				6.40			28	21	6.25	2.90	1.68	1.60
7				5.80			27	20	6.10	2.80	1.68	1.36
8				5.65		10	28	18	5.95	2.80	1.60	1.28
9				5.80			31	17	5.80	2.70	1.60	1.28
10				5.50			92	16	5.80	2.70	1.60	1.36
11				5.95			88	14	5.95	2.70	1.60	1.36
12				6.25			53	13	7.00	2.70	1.52	1.52
13				7.45			42	13	7.30	2.60	1.44	1.36
14						10	38	12	8.05	2.60	1.44	1.28
15				12		10	35	11	10	2.50	1.36	1.28
16				10		10	64	11	8.05	2.50	1.28	1.28
17				10		12	61	11	7.15	2.50	1.28	1.52
18				9.25		47	94	11	5.95	2.40	1.20	1.28
19				9.25		52	164	15	6.40	2.40	1.20	1.20
20				10		68	158	13	6.10	2.30	1.20	1.13
21				9.25		64	102	11	5.65	2.30	1.20	1.13
22				8.80		73	67	11	5.50	2.20	1.20	0.99
23						58	60	11	5.26	2.20	1.20	0.92
24				43		41	68	10	5.12	2.10	1.20	0.85
25				121		34	73	9.40	4.98	2.10	1.60	0.78
26						31	103	8.95	5.80	2.10	2.20	0.64
27				73		37	66	8.65	4.24	2.10	2.60	0.57
28				83		72	53	8.95	4.10	2.10	2.60	0.50
29			14	114		48	41	8.05	3.99	2.00		0.50
30			15	64		44	42	7.90	3.88	1.92		0.78
31				43			66		3.77	1.92		0.64
Total							1,915	449	186	77	45	38
Mean							62	15	6.02	2.49	1.57	1.24
Max.							164	31	10	3.11	2.60	2.50
Min.							27	7.90	3.77	1.92	1.20	0.50
Runoff - mcm.							165.456	38.785	16.121	6.685	3.853	3.312

WATER YEAR 1965 : Max. Min. Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
KHLONG U-TA-PHAO RIVER BASIN

Khlong Wat at Tone Nga Chang, Songkhla (X. 14)

Location: Lat. 6° – 55' – 00" N., Long 100° – 25' – 00" E., about 15 kilometers from Hu Rae which is 14 kilometers away from Phet Kasem Highway, Amphoe Hat Yai, Songkhla.

Drainage Area: 71 sq. km. referred to G.S.G.S. 4218 Map 1:253,440.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 109.50 m. (A.D.)

Bench Mark: BM. – H.S./R.I.D.
Location: On the left bank of the creek, near the rain gage.
Elevation: + 114.589 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1954 to date.

Rating Operation:
Period of Rating: 1954 to date.
Rated by Float: –
Rated by Current Meter: 1954 to date.

Stability of Channel Regimes: Very stable, shifting adjustment is negligible for flow computation due to its excellent stability.

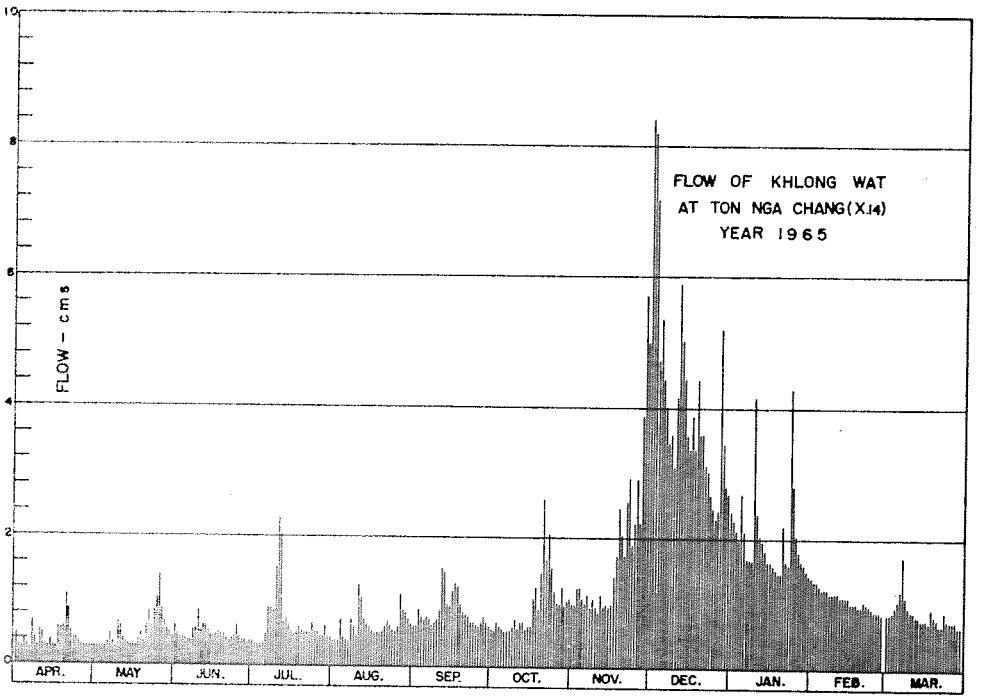
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made upstream of the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	109.75	109.67	109.79	109.71	109.72	109.79	109.78	109.88	110.48	110.10	109.96	109.85
2	.68	.67	.75	.70	.72	.80	.77	.88	.47	.08	.95	.85
3	.67	.67	.73	.69	.71	.86	.81	.93	.42	.06	.95	.85
4	.72	.67	.73	.69	.82	.83	.79	.93	.28	.04	.94	.88
5	.69	.67	.73	.70	.74	.82	.78	.90	.32	.12	.93	.90
6	109.65	109.71	109.72	109.75	109.72	109.83	109.77	109.88	110.26	110.06	109.93	109.92
7	.81	.75	.72	.86	.72	.82	.77	.91	.23	.03	.93	110.01
8	.73	.71	.77	.86	.82	.80	.77	.87	.19	.03	.92	109.91
9	.67	.67	.77	.85	.79	.81	.79	.90	.20	.03	.92	.88
10	.77	.81	.85	.98	.75	.82	.82	.87	.15	.24	.92	.86
11	109.76	109.79	109.77	110.08	109.92	109.85	109.78	109.85	110.24	110.09	109.92	109.86
12	.69	.73	.80	109.89	.90	.98	.81	.91	.35	.05	.91	.85
13	.68	.71	.80	.81	.82	.97	.81	.87	.30	.04	.91	.84
14	.72	.70	.77	.82	.80	.88	.78	.88	.26	.02	.91	.83
15	.68	.69	.75	.79	.79	.87	.79	.87	.20	.00	.91	.83
16	109.67	109.69	109.74	109.77	109.77	109.92	109.79	109.88	110.18	110.00	109.89	109.83
17	.78	.69	.75	.75	.76	.94	.90	.96	.22	109.99	.89	.82
18	.78	.72	.76	.76	.76	.93	.93	110.01	.18	.98	.89	.87
19	.72	.75	.75	.78	.76	.88	.86	.10	.26	.97	.88	.84
20	.91	.71	.75	.77	.77	.85	.97	.05	.20	.97	.88	.83
21	109.86	109.80	109.73	109.76	109.79	109.84	110.11	110.01	110.20	110.07	109.90	109.81
22	.77	.85	.72	.76	.81	.83	.00	.11	.16	.00	.89	.81
23	.73	.79	.73	.76	.79	.81	.05	.14	.15	109.99	.88	.86
24	.73	.85	.74	.81	.77	.81	109.98	.03	.12	110.25	.87	.83
25	.71	.90	.79	.76	.77	.80	.92	.07	.10	.13	.86	.82
26	109.69	109.96	109.74	109.76	109.79	109.80	109.89	110.14	110.08	110.05	109.86	109.82
27	.68	.86	.72	.74	.91	.81	.87	.07	.10	.02	.86	.82
28	.68	.81	.72	.74	.86	.83	.93	.22	.31	.00	.85	.80
29	.67	.78	.71	.79	.85	.81	.88	.34	.19	109.99		.80
30	.67	.76	.71	.74	.82	.79	.89	.30	.13	.98		.80
31		.74		.73	.80		.90		.12	.96		.80
Mean	109.72	109.75	109.75	109.79	109.79	109.85	109.86	109.99	110.23	110.04	109.90	109.85
Max.	109.91	109.96	109.85	110.08	109.92	109.98	110.11	110.34	110.48	110.25	109.96	110.01
Min.	109.65	109.67	109.71	109.69	109.71	109.79	109.77	109.85	110.08	109.96	109.85	109.80

WATER YEAR 1965 : Max. 110.48 m. Min. 109.65 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.49	0.29	0.61	0.37	0.40	0.61	0.58	0.96	8.39	2.44	1.40	0.84
2	0.30	0.29	0.49	0.34	0.40	0.64	0.55	0.96	8.19	2.28	1.34	0.84
3	0.29	0.29	0.43	0.32	0.37	0.88	0.68	1.22	7.17	2.12	1.34	0.84
4	0.40	0.29	0.43	0.32	0.72	0.76	0.61	1.22	4.72	1.96	1.28	0.96
5	0.32	0.29	0.43	0.34	0.46	0.72	0.58	1.04	5.35	2.67	1.22	1.04
6	0.25	0.37	0.40	0.49	0.40	0.76	0.55	0.96	4.43	2.12	1.22	1.16
7	0.68	0.49	0.40	0.88	0.40	0.72	0.55	1.10	4.01	1.88	1.22	1.72
8	0.43	0.37	0.55	0.88	0.72	0.64	0.55	0.92	3.47	1.88	1.16	1.10
9	0.29	0.29	0.55	0.84	0.61	0.68	0.61	1.04	3.58	1.88	1.16	0.96
10	0.55	0.68	0.84	1.52	0.49	0.72	0.72	0.92	3.01	4.15	1.16	0.88
11	0.52	0.61	0.55	2.28	1.16	0.84	0.58	0.84	4.15	2.36	1.16	0.88
12	0.32	0.43	0.64	1.00	1.04	1.52	0.68	1.10	5.88	2.04	1.10	0.84
13	0.30	0.37	0.64	0.68	0.72	1.46	0.68	0.92	5.00	1.96	1.10	0.80
14	0.40	0.34	0.55	0.72	0.64	0.96	0.58	0.96	4.43	1.80	1.10	0.76
15	0.30	0.32	0.49	0.61	0.61	0.92	0.61	0.92	3.58	1.64	1.10	0.76
16	0.29	0.32	0.46	0.55	0.55	1.16	0.61	0.96	3.35	1.64	1.00	0.76
17	0.58	0.32	0.49	0.49	0.52	1.28	1.04	1.40	3.86	1.58	1.00	0.72
18	0.58	0.40	0.52	0.52	0.52	1.22	1.22	1.72	3.35	1.52	1.00	0.92
19	0.40	0.49	0.49	0.58	0.52	0.96	0.88	2.44	4.43	1.46	0.96	0.80
20	1.10	0.37	0.49	0.55	0.55	0.84	1.46	2.04	3.58	1.46	0.96	0.76
21	0.88	0.64	0.43	0.52	0.61	0.80	2.55	1.72	3.58	2.20	1.04	0.68
22	0.55	0.84	0.40	0.52	0.68	0.76	1.64	2.55	3.12	1.64	1.00	0.68
23	0.43	0.61	0.43	0.52	0.61	0.68	2.04	2.90	3.01	1.58	0.96	0.88
24	0.43	0.84	0.46	0.68	0.55	0.68	1.52	1.88	2.67	4.29	0.92	0.76
25	0.37	1.04	0.61	0.52	0.55	0.64	1.16	2.20	2.44	2.78	0.88	0.72
26	0.32	1.40	0.46	0.52	0.61	0.64	1.00	2.90	2.28	2.04	0.88	0.72
27	0.30	0.88	0.40	0.46	1.10	0.68	0.92	2.20	2.44	1.80	0.88	0.72
28	0.30	0.68	0.40	0.46	0.88	0.76	1.22	3.86	5.18	1.64	0.84	0.64
29	0.29	0.58	0.37	0.61	0.84	0.68	0.96	5.70	3.47	1.58		0.64
30	0.29	0.52	0.37	0.46	0.72	0.61	1.00	5.00	2.78	1.52		0.64
31		0.46		0.43	0.64		1.04		2.67	1.40		0.64
Total	13	16	15	20	19	25	29	54	127	63	30	26
Mean	0.43	0.52	0.52	0.64	0.64	0.83	0.93	1.80	4.09	2.03	1.07	0.84
Max.	1.10	1.40	0.84	2.28	1.16	1.52	2.55	5.70	8.39	4.29	1.40	1.72
Min.	0.29	0.29	0.37	0.32	0.37	0.61	0.55	0.84	2.28	1.40	0.84	0.64
Runoff - mcm.	1.123	1.382	1.382	1.728	1.642	2.160	2.506	4.665	10.973	5.443	2.592	2.245

WATER YEAR 1965 : Max. 8.39 Min. 0.29 Mean 1.19 Annual Runoff 37.757 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 1	01.00	111.23	32	Dec. 11	23.00	111.00	26

WATER YEAR 1965
KHLONG DUSON RIVER BASIN

Khlong Duson at Thung Nui, Satun (X. 16A)

Location: Lat. 06° – 48' – 00" N., Long 100° – 07' – 00" E., at Ban Thung Nui, Amphoe Muang, Satun.

Drainage Area: 58 sq. km. referred to G.S.G.S. 4218 Map. 1:253,440.

Type of Gage: Water-stage recorder

Zero Gage at Bottom at: 44.206 m. (A.D.)

Bench Mark:
- Location: Near the gage site.
- Elevation: + 50.457 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1959 to date.

Rating Operation:
- Period of Rating: 1960.
- Rated by Float: –
- Rated by Current Meter: 1960.

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

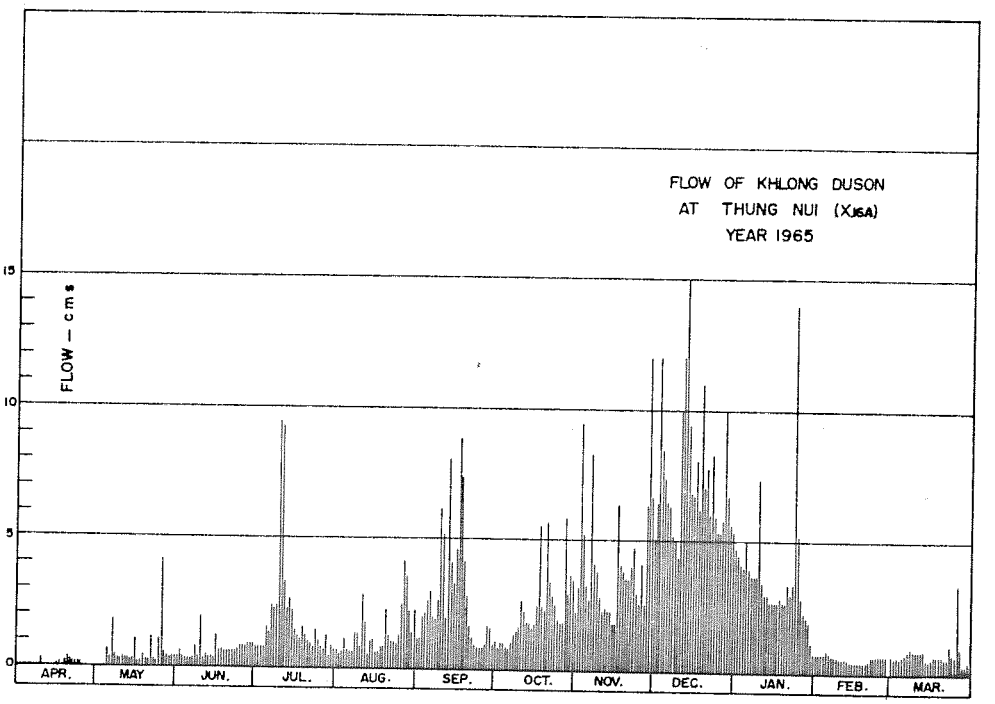
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	44.98	45.05	45.11	45.16	45.15	45.19	45.18	45.28	45.48	45.46	45.15	45.14
2	.97	.04	.14	.16	.13	.19	.16	.36	.57	.45	.15	.13
3	.97	.04	.11	.16	.14	.27	.18	.73	.88	.42	.15	.14
4	.97	.05	.10	.16	.19	.27	.18	.49	.68	.41	.15	.13
5	.97	.14	.10	.23	.15	.31	.16	.39	.62	.48	.16	.14
6	44.97	44.09	45.10	45.21	45.14	45.34	45.16	45.32	45.57	45.41	45.15	45.15
7	45.01	.25	.10	.30	.14	.27	.18	.67	.56	.39	.15	.16
8	.04	.12	.16	.28	.21	.22	.21	.42	.49	.39	.14	.17
9	.05	.10	.11	.30	.21	.32	.22	.40	.48	.39	.14	.16
10	.09	.09	.26	.73	.16	.55	.24	.33	.44	.62	.13	.16
11	45.03	45.11	45.10	45.72	45.33	45.49	45.32	45.28	45.78	45.37	45.13	45.16
12	.04	.10	.12	.37	.25	.26	.28	.30	.87	.34	.13	.16
13	.05	.10	.11	.29	.13	.66	.25	.28	.98	.34	.13	.16
14	.05	.09	.11	.32	.18	.42	.25	.28	.73	.32	.11	.12
15	.05	.09	.10	.29	.19	.36	.23	.25	.59	.32	.11	.12
16	45.06	45.18	45.20	45.22	45.14	45.45	45.25	45.25	45.58	45.32	45.11	45.13
17	.07	.08	.14	.20	.14	.70	.31	.56	.66	.32	.11	.14
18	.04	.08	.15	.19	.16	.62	.51	.42	.55	.33	.11	.14
19	.08	.12	.14	.23	.16	.42	.31	.40	.79	.32	.11	.14
20	.10	.09	.14	.20	.29	.33	.29	.38	.60	.32	.11	.14
21	45.09	45.09	45.14	45.18	45.20	45.24	45.52	45.38	45.64	45.37	45.12	45.13
22	.08	.19	.14	.17	.18	.20	.37	.41	.54	.34	.14	.13
23	.07	.09	.14	.16	.18	.17	.33	.46	.67	.37	.14	.19
24	.07	.08	.15	.22	.17	.16	.31	.34	.54	.94	.14	.15
25	.07	.18	.16	.18	.20	.16	.26	.31	.50	.41	.14	.14
26	45.05	45.42	45.16	45.16	45.30	45.16	45.25	45.42	45.50	45.33	45.14	45.37
27	.05	.13	.16	.15	.42	.17	.25	.31	.53	.29	.14	.17
28	.05	.11	.17	.20	.38	.24	.53	.56	.77	.28	.14	.09
29	.05	.10	.17	.12	.28	.23	.34	.88	.58	.26		.09
30	.05	.11	.17	.16	.21	.17	.39	.58	.52	.19		.11
31		.11		.15	.29		.38		.50	.15		.09
Mean	45.04	45.12	45.14	45.24	45.20	45.31	45.28	45.36	45.62	45.37	45.13	45.14
Max.	45.10	45.42	45.26	45.73	45.42	45.70	45.53	45.88	45.98	45.94	45.16	45.37
Min.	44.97	45.04	45.10	45.12	45.13	45.16	45.16	45.28	45.44	45.15	45.11	45.09

WATER YEAR 1965 : Max. 45.98 m. Min. 44.97 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	0.00	0.00	0.40	0.81	0.70	1.14	1.03	2.26	5.03	4.71	0.70	0.62
2	0.00	0.00	0.62	0.81	0.54	1.14	0.81	3.24	6.49	4.55	0.70	0.54
3	0.00	0.00	0.40	0.81	0.62	2.04	1.03	9.42	12	4.10	0.70	0.62
4	0.00	0.00	0.33	0.81	1.14	2.04	1.03	5.19	8.47	3.95	0.70	0.54
5	0.00	0.62	0.33	1.58	0.70	2.54	0.81	3.24	7.36	5.03	0.81	0.62
6	0.00	0.26	0.33	1.36	0.62	2.96	0.81	2.68	6.49	3.95	0.70	0.70
7	0.00	1.80	0.33	2.40	0.62	2.04	1.03	8.28	6.32	3.66	0.70	0.81
8	0.00	0.47	0.81	2.26	1.36	1.47	1.36	4.10	5.19	3.66	0.62	0.92
9	0.00	0.33	0.40	2.40	1.36	2.68	1.47	3.80	5.03	3.66	0.62	0.81
10	0.26	0.26	1.92	9.42	0.81	6.15	1.69	2.82	4.40	7.36	0.54	0.81
11	0.00	0.40	0.33	9.23	2.82	5.19	2.68	2.26	10	3.38	0.54	0.81
12	0.00	0.33	0.47	3.38	1.80	1.92	2.26	2.40	12	2.96	0.54	0.81
13	0.00	0.33	0.40	2.28	0.54	8.09	1.80	2.26	15	2.96	0.54	0.81
14	0.00	0.26	0.40	2.68	1.03	4.10	1.80	2.26	9.42	2.68	0.40	0.47
15	0.00	0.26	0.33	2.28	1.14	3.24	1.58	1.80	6.83	2.68	0.40	0.47
16	0.06	1.03	1.25	1.47	0.62	4.55	1.80	1.80	6.66	2.68	0.40	0.54
17	0.12	0.19	0.62	1.25	0.62	8.85	2.54	6.32	8.09	2.68	0.40	0.62
18	0.00	0.19	0.70	1.14	0.81	7.36	5.51	4.10	6.15	2.82	0.40	0.62
19	0.19	0.47	0.62	1.58	0.81	4.10	2.54	3.80	11	2.68	0.40	0.62
20	0.33	0.26	0.62	1.25	2.28	2.82	2.28	3.52	7.00	2.68	0.40	0.62
21	0.26	0.26	0.62	1.03	1.25	1.69	5.67	3.52	7.73	3.38	0.47	0.54
22	0.19	1.14	0.62	0.92	1.03	1.25	3.38	3.95	5.99	2.96	0.62	0.54
23	0.12	0.26	0.62	0.81	1.03	0.92	2.82	4.71	8.28	3.38	0.62	1.03
24	0.12	0.19	0.70	1.47	0.92	0.81	2.54	2.96	5.99	14	0.62	0.70
25	0.12	1.03	0.81	1.03	1.25	0.81	1.92	2.54	5.35	3.95	0.62	0.62
26	0.00	4.10	0.81	0.81	2.40	0.81	1.80	4.10	5.35	2.82	0.62	3.38
27	0.00	0.54	0.81	0.70	4.10	0.92	1.80	2.54	5.83	2.28	0.62	0.92
28	0.00	0.40	0.92	1.25	3.52	1.69	5.83	6.32	10	2.16	0.62	0.26
29	0.00	0.33	0.92	0.47	2.26	1.58	2.96	12	6.66	1.92		0.26
30	0.00	0.40	0.92	0.81	1.36	0.92	3.66	6.66	5.67	1.14		0.40
31		0.40		0.70	2.28		3.52		5.35	0.70		0.26
Total	1.77	16	19	59	42	86	72	125	231	111	16	22
Mean	0.06	0.54	0.64	1.91	1.36	2.89	2.31	4.16	7.45	3.60	0.06	0.72
Max.	0.33	4.10	1.92	9.42	4.10	8.85	5.83	12	15	14	0.81	3.38
Min.	0.00	0.00	0.33	0.47	0.54	0.81	0.81	1.80	4.40	0.70	0.40	0.26
Runoff - mcm.	0.153	1.382	1.642	5.098	3.629	7.430	6.221	10.800	19.958	9.590	1.382	1.901

WATER YEAR 1965 : Max. 15 Min. 0.00 Mean 22 Annual Runoff 69.186 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 11	24.00	47.23	49				

WATER YEAR 1965
KHLONG SAO THONG RIVER BASIN

Khlong Sao Thong at Khun Tha Le, Nakhon Si Thammarat (X. 18A)

Location: Lat. 8° – 20' – 18" N., Long 99° – 50' – 03" E., 200 meters upstream from Khlong Sao Thong Irrigation Project, Amphoe Lan Saka, Nakhon Si Thammarat.

Drainage Area: 163 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 22.522 m. (A.D.)

Bench Mark:
- Location: Near the station office of X. 18A.
- Elevation: BM. 1 + 28.081 m. (A.D.), and BM. 2 + 27.900 m. (A.D.)

Gage Reading Frequency: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Basis of Mean Daily Gage Height: 1962 – 1967.

Period of Available Gage Records:

Rating Operation:
- Period of Rating: 1962 – 1967.
- Rated by Float: –
- Rated by Current Meter: 1962 – 1967.

Stability of Channel Regimes: Rather unstable, Periodic rating curves are used for flow computation.

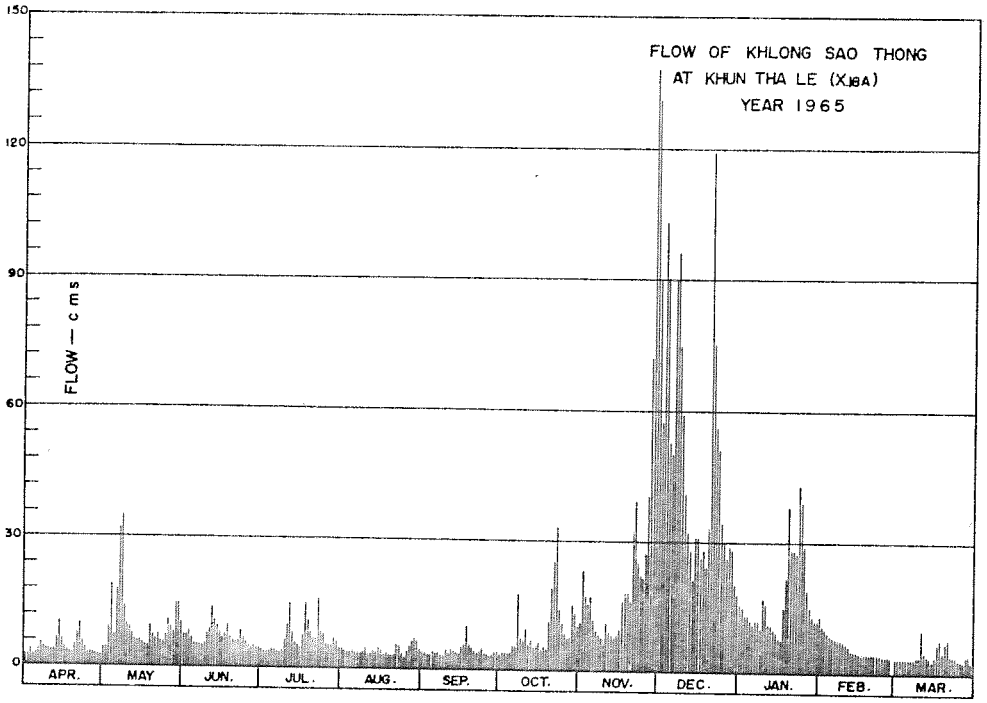
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	22.89	23.06	23.24	23.02	23.05	22.98	22.96	23.40	25.89	23.77	23.65	23.11
2	.87	.08	.22	.00	.02	.96	23.00	.93	.02	.71	.54	.09
3	.98	.33	.26	22.99	.00	.95	22.99	.70	26.16	.64	.49	.09
4	.87	.79	.18	.99	.00	.94	.98	.61	25.88	.65	.46	.09
5	.88	.22	.11	23.02	.04	23.00	.98	.69	24.92	.61	.42	.09
6	23.02	23.36	23.10	23.02	22.99	22.96	23.10	23.46	24.83	23.54	23.39	23.09
7	.11	24.24	.09	22.98	.99	.98	.08	.33	25.79	.57	.37	.09
8	.05	.35	.09	.97	.99	.94	.71	.27	26.01	.59	.37	.10
9	.00	23.55	.10	23.01	23.00	.92	.21	.23	25.52	.49	.35	.12
10	22.99	.39	.26	.16	.05	23.04	.19	.20	.07	.80	.33	.12
11	22.98	23.33	23.31	23.39	22.97	22.96	23.34	23.42	24.55	23.75	23.31	23.48
12	.99	.23	.57	.62	.97	23.05	.12	.30	.26	.55	.29	.22
13	23.17	.17	.40	.26	23.01	.03	.18	.27	.13	.55	.22	.16
14	.37	.14	.34	.13	22.98	.00	.08	.24	.06	.51	.21	.12
15	.17	.16	.21	.09	23.07	22.97	.10	.27	.22	.46	.21	.06
16	23.05	23.13	23.17	23.05	23.01	23.09	23.16	23.34	24.21	23.39	23.20	23.12
17	22.99	.09	.24	.23	22.96	.11	.06	.65	.06	.36	.20	.31
18	.96	.08	.36	.61	.98	.39	.10	.72	.12	.61	.19	.38
19	.94	.34	.19	.42	.93	.12	.08	.74	23.98	.91	.16	.16
20	23.09	.20	.15	.28	.94	.06	.40	.66	24.28	24.46	.16	.32
21	23.27	23.15	23.14	23.17	22.94	23.01	23.78	24.19	26.48	24.11	23.17	23.38
22	.37	.24	.17	.16	23.11	22.99	24.02	.49	25.53	.12	.17	.15
23	.13	.16	.28	.66	.09	23.01	.30	.02	.00	.08	.16	.12
24	.04	.12	.19	.26	22.95	.05	23.58	23.92	24.85	.60	.16	.14
25	22.92	.25	.13	.26	.91	22.97	.40	.86	.33	.48	.13	.08
26	22.94	23.41	23.09	23.13	23.01	22.95	23.28	24.09	24.18	24.19	23.14	23.07
27	.92	.32	.06	.08	.11	.94	.21	.63	.05	23.87	.13	.05
28	.92	.27	.07	.09	.16	.95	.22	25.45	.16	.74	.12	.13
29	.91	.62	.04	.19	.19	23.01	.61	26.81	.12	.66		.15
30	.91	.59	.04	.14	.14	.00	.53	.69	23.89	.61		.05
31		.37		.06	.04		.39		.84	.59		.05
Mean	23.02	23.35	23.19	23.18	22.99	23.01	23.29	23.93	24.75	23.77	23.27	23.15
Max.	23.37	24.35	23.57	23.66	23.19	23.39	24.30	26.81	26.48	24.60	23.65	23.48
Min.	22.87	23.06	23.04	22.97	22.91	22.92	22.96	23.20	23.84	23.36	23.12	23.05

WATER YEAR 1965 : Max. 26.81 m. Min. 22.87 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	2.69	4.84	7.78	4.28	4.70	3.76	3.52	11	90	16	13	3.35
2	2.47	5.12	7.44	4.00	4.28	3.52	4.00	23	57	15	11	3.30
3	3.76	9.34	8.12	3.88	4.00	3.40	3.88	17	103	13	10	3.30
4	2.47	19	6.76	3.88	4.00	3.28	3.76	15	90	13	9.44	3.30
5	2.58	7.44	5.57	4.28	4.56	4.00	3.76	17	53	12	8.68	3.30
6	4.28	9.88	5.40	4.28	3.88	3.52	5.40	12	50	11	8.13	3.30
7	5.57	32	5.26	3.76	3.88	3.76	5.12	9.34	86	12	7.79	3.30
8	4.70	35	5.26	3.64	3.88	3.28	17	8.29	96	12	7.79	3.40
9	4.00	14	5.40	4.14	4.00	3.04	7.27	7.61	75	10	7.45	3.70
10	3.88	10	8.12	6.42	4.70	4.56	6.93	7.10	59	17	7.11	3.70
11	3.76	9.34	8.98	10	3.64	3.52	9.52	11	41	16	6.77	9.82
12	3.88	7.61	14	15	3.64	4.70	5.74	8.80	32	11	6.43	5.24
13	6.59	6.59	11	8.12	4.14	4.42	6.76	8.29	28	11	5.24	4.30
14	10	6.08	9.52	5.91	3.76	4.00	5.12	7.78	24	10	5.07	3.70
15	6.59	6.42	7.27	5.26	4.98	3.64	5.40	8.29	31	9.44	5.07	3.00
16	4.70	5.91	6.59	4.70	4.14	5.26	6.42	9.52	31	8.13	4.90	3.70
17	3.88	5.26	7.78	7.61	3.52	5.57	4.84	16	26	7.62	4.90	6.77
18	3.52	5.12	9.88	15	3.76	10	5.40	18	28	15	4.75	7.96
19	3.28	9.52	6.93	11	3.16	5.74	5.12	18	24	22	4.30	4.30
20	5.26	7.10	6.25	8.46	3.28	4.84	11	16	33	38	4.30	6.94
21	8.29	6.25	6.08	6.59	3.28	4.14	19	30	119	28	4.45	7.96
22	10	7.78	6.59	6.42	5.57	3.88	25	39	75	28	4.45	4.15
23	5.91	6.42	8.46	16	5.26	4.14	33	25	56	27	4.30	3.70
24	4.56	5.74	6.93	8.12	3.40	4.70	14	22	51	43	4.30	4.00
25	3.04	7.95	5.91	8.12	2.92	3.64	11	21	34	39	3.85	3.20
26	3.28	11	5.26	5.91	4.14	3.40	8.46	27	30	29	4.00	3.10
27	3.04	9.16	4.84	5.12	5.57	3.28	7.27	44	26	19	3.85	2.90
28	3.04	8.29	4.98	5.26	6.42	3.40	7.44	72	29	15	3.70	3.85
29	2.92	15	4.56	6.93	6.93	4.14	15	138	28	13		4.15
30	2.92	15	4.56	6.08	6.08	4.00	13	131	19	12		2.90
31		10		4.84	4.56		10		18	12		2.90
Total	135	318	211	213	134	126	289	798	1,542	544	175	132
Mean	4.49	10	7.05	6.87	4.32	4.22	9.33	27	50	17	6.25	4.27
Max.	10	35	14	16	6.93	10	33	138	119	43	13	9.82
Min.	2.47	4.84	4.56	3.64	3.16	3.04	3.52	7.10	18	7.62	3.70	2.90
Runoff - mcm.	11.664	27.475	18.230	18.403	11.578	10.886	24.970	68.947	133.229	47.002	15.120	11.405

WATER YEAR 1965 : Max. 138 Min. 2.47 Mean 13 Annual Runoff 399.812 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 21	13.00	28.51	290				

WATER YEAR 1965
KHLONG AI TO RIVER BASIN

Khlong Tha Chiat at Ban Ta Mode, Phatthalung (X. 21)

Location: Lat 7° – 20' – 58" N., Long 100° – 06' – 40" E., at Tambon Ta Mode, Amphoe Khao Chaison, Phatthalung.

Drainage Area: 176 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 19.40 m. (M.S.L.)

Bench Mark:
Location: Near the upper gage.
Elevation: + 25.244 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1959 to date.

Rating Operation:
Period of Rating: 1960 – 63.
Rated by Float: –
Rated by Current Meter: 1960 – 63.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow.

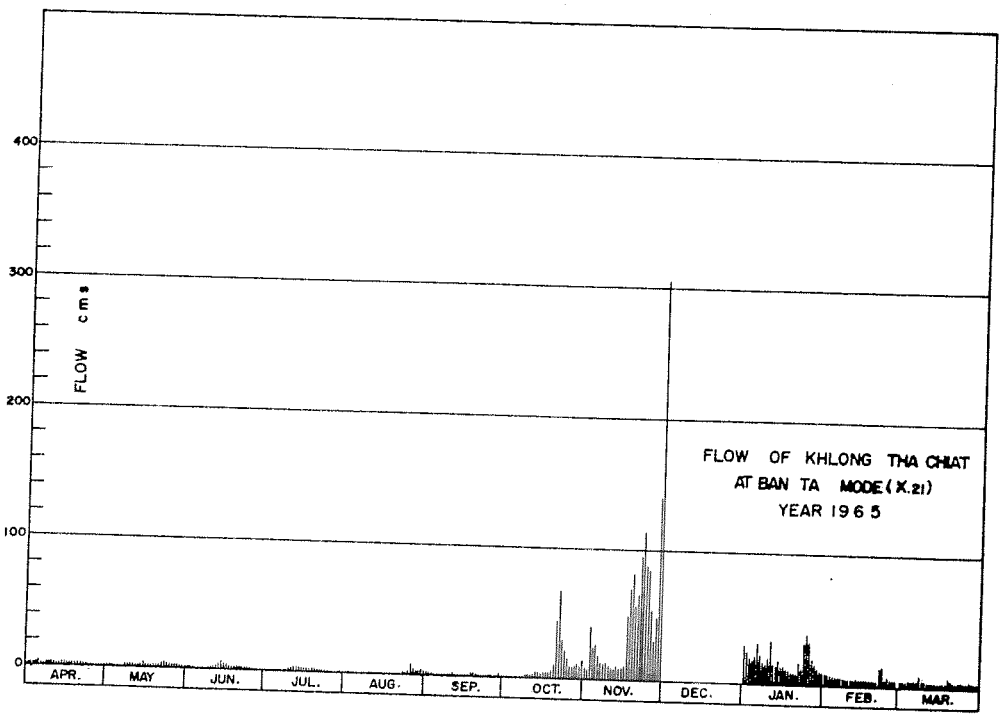
General Description: Records are classified as good. Stage-discharge relationship used is defined by discharge measurements made in 1961. No diversions are made above the gage site.

Remark: No gage height record for Dec. 1 – 31, 1965

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1,1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	20.02	19.96	20.08	20.00	19.96	20.17	20.00	20.72		21.54	20.70	20.35
2	.02	.94	.07	.00	.95	.10	19.97	.61		.39	.67	.32
3	.03	.95	.05	.01	.94	.06	.95	21.84		.23	.62	.29
4	.06	20.04	.04	.00	.93	.04	.94	.37		.11	.58	.45
5	.11	.01	.03	.01	.92	.02	.93	.46		.26	.57	.33
6	20.04	19.97	20.02	20.03	19.90	20.01	19.92	21.13		21.61	20.53	20.34
7	.04	.98	.01	.04	.92	.00	.92	20.91		.27	.51	.31
8	.15	20.22	.02	.02	.94	19.99	.95	.84		.07	.49	.64
9	.09	.13	.04	.04	.97	.98	20.08	.88		20.99	.47	.37
10	.14	.11	.08	.08	.96	.98	.13	.82		21.20	.45	.32
11	20.06	20.09	20.17	20.27	19.95	20.06	20.14	20.71		21.64	20.43	20.29
12	.04	.15	.29	.30	.94	.00	.07	.63		.03	.42	.27
13	.03	.14	.45	.30	.93	.02	.33	.78		20.96	.40	.25
14	.22	.08	.54	.25	.91	.00	.34	.65		21.14	.28	.25
15	.16	.32	.41	.20	.90	19.99	.24	.73		20.93	.36	.22
16	20.09	20.19	20.33	20.14	19.89	20.01	20.33	20.79		20.93	20.35	20.21
17	.05	.14	.22	.10	.89	.01	.35	22.08		.87	.36	.21
18	.15	.08	.22	.07	.88	.14	.39	.46		.78	.37	.22
19	.12	.15	.17	.26	.88	.10	.50	.64		.70	.33	.60
20	.08	.14	.14	.17	.87	.05	.78	.22		.62	.31	.38
21	20.15	20.12	20.11	20.08	19.88	20.01	21.95	22.37		20.65	20.30	20.30
22	.07	.31	.09	.06	.87	.01	22.40	.85		21.08	.93	.28
23	.05	.44	.06	.05	20.13	19.95	21.56	23.11		20.84	.99	.26
24	.04	.35	.07	.04	.02	.94	.25	22.75		21.62	.46	.30
25	.03	.28	.05	.03	.26	.94	.05	.68		.83	.57	.20
26	20.01	20.25	20.04	20.02	20.62	19.93	20.76	22.16		22.66	20.45	20.20
27	19.99	.29	.03	.01	.31	.93	.71	21.57		.22	.39	.35
28	.98	.21	.03	.00	.21	.95	.74	22.03		.04	.42	.20
29	.96	.16	.02	19.98	.28	20.19	.85	23.41		20.91		.20
30	.98	.12	.01	.98	.39	.03	.75	24.86		.82		.19
31		.09		.97	.25		21.00			.74		.56
Mean	20.06	20.14	20.13	20.08	20.02	20.02	20.52	21.73		21.12	20.49	20.31
Max.	20.22	20.44	20.54	20.30	20.62	20.19	22.40	24.86		21.83	20.99	20.64
Min.	19.96	19.94	20.01	19.97	19.87	19.93	19.92	20.61		20.62	20.28	20.19

WATER YEAR 1965 : Max. m. Min. 19.92 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.84	1.50	2.28	1.70	1.50	2.89	1.70	9.72		29	9.40	4.50
2	1.84	1.40	2.19	1.70	1.45	2.40	1.55	9.96		25	8.92	4.20
3	1.91	1.45	2.05	1.77	1.40	2.12	1.45	40		20	8.12	3.91
4	2.12	1.98	1.98	1.70	1.35	1.98	1.40	24		18	7.48	5.60
5	2.47	1.77	1.91	1.77	1.30	1.84	1.35	27		21	7.64	4.30
6	1.98	1.55	1.84	1.91	1.20	1.77	1.30	18		31	6.68	4.40
7	1.98	1.60	1.77	1.98	1.30	1.70	1.30	13		22	6.36	4.10
8	2.75	3.28	1.84	1.84	1.40	1.65	1.45	12		17	6.08	8.44
9	2.33	2.61	1.98	1.98	1.55	1.60	2.26	13		15	5.84	4.70
10	2.68	2.47	2.26	2.26	1.50	1.60	2.61	11		20	5.60	4.20
11	2.12	2.33	2.89	3.73	1.45	2.12	2.68	9.56		33	5.36	3.91
12	1.98	2.75	3.91	4.00	1.40	1.70	2.19	8.28		16	5.24	3.73
13	1.91	2.68	5.60	4.00	1.35	1.84	4.30	11		14	5.00	3.55
14	3.28	2.26	6.84	3.55	1.25	1.70	4.40	8.60		18	3.82	3.55
15	2.82	4.20	5.12	3.10	1.20	1.65	3.46	9.88		14	4.60	3.28
16	2.33	3.03	4.30	2.68	1.16	1.77	4.33	11		14	4.50	3.19
17	2.05	2.68	3.28	2.40	1.16	1.77	4.50	50		12	4.60	3.19
18	2.75	2.26	3.28	2.19	1.12	2.68	4.90	70		11	4.70	3.28
19	2.54	2.75	2.89	3.64	1.12	2.40	6.20	81		9.40	4.30	7.80
20	2.26	2.68	2.68	2.89	1.08	2.05	11	57		8.12	4.10	4.80
21	2.75	2.54	2.47	2.26	1.12	1.77	44	65		8.60	4.00	4.00
22	2.19	4.10	2.33	2.12	1.08	1.77	67	95		17	14	3.82
23	2.05	5.48	2.12	2.05	2.61	1.45	30	114		12	15	3.64
24	1.98	4.50	2.19	1.98	1.84	1.40	21	88		32	5.72	4.00
25	1.91	3.82	2.05	1.91	3.64	1.40	16	84		39	7.32	3.10
26	1.77	3.55	1.98	1.84	8.12	1.35	10	54		33	5.60	3.10
27	1.65	3.91	1.91	1.77	4.10	1.35	9.56	30		20	4.90	4.50
28	1.60	3.19	1.91	1.70	3.19	1.45	10	48		16	5.24	3.10
29	1.50	2.82	1.84	1.60	3.82	3.03	12	140		13		3.10
30	1.60	2.54	1.77	1.60	4.90	1.91	10	305		11		3.03
31		2.33		1.55	3.55		15			10		7.16
Total	65	86	81	71	64	56	309	1,515		579	180	131
Mean	2.17	2.77	2.70	2.29	2.06	1.87	9.97	50		19.68	6.43	4.22
Max.	3.28	5.48	6.84	4.00	8.12	3.03	67	305		39	15	8.44
Min.	1.50	1.40	1.77	1.55	1.08	1.35	1.30	8.28		8.12	3.82	3.03
Runoff - mcm.	5.616	7.430	6.998	6.134	5.529	4.838	26.698	130.896		50.026	15.552	11.318

WATER YEAR 1965 : Max. Min. 1.08 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
KHLONG AI TO RIVER BASIN

Khlong Ai To at Tha Chiat Headwork, Phatthalung (X. 21A)

Location: Lat. 7° – 21' – 31" N., Long 100° – 06' – 23" E., at Ban Mek Li, Amphoe Khao Chaison, Phatthalung.

Drainage Area: 324 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 18.00 m. (M.S.L.)

Bench Mark:
Location: Near the gage site.
Elevation: + 24.240 m. (M.S.L.)

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

Basis of Mean Daily Gage Height: Arithmetic mean of 5 readings which is adequate to represent its mean daily value.

Period of Available Gage Records: 1964 to date.

Rating Operation:
Period of Rating: 1963.
Rated by Float: –
Rated by Current Meter: 1963.

Stability of Channel Regimes: Fairly stable, shifting adjustment is not included for flow computation for years without actual rating.

Overbank Flow Conditions: No overbank flow

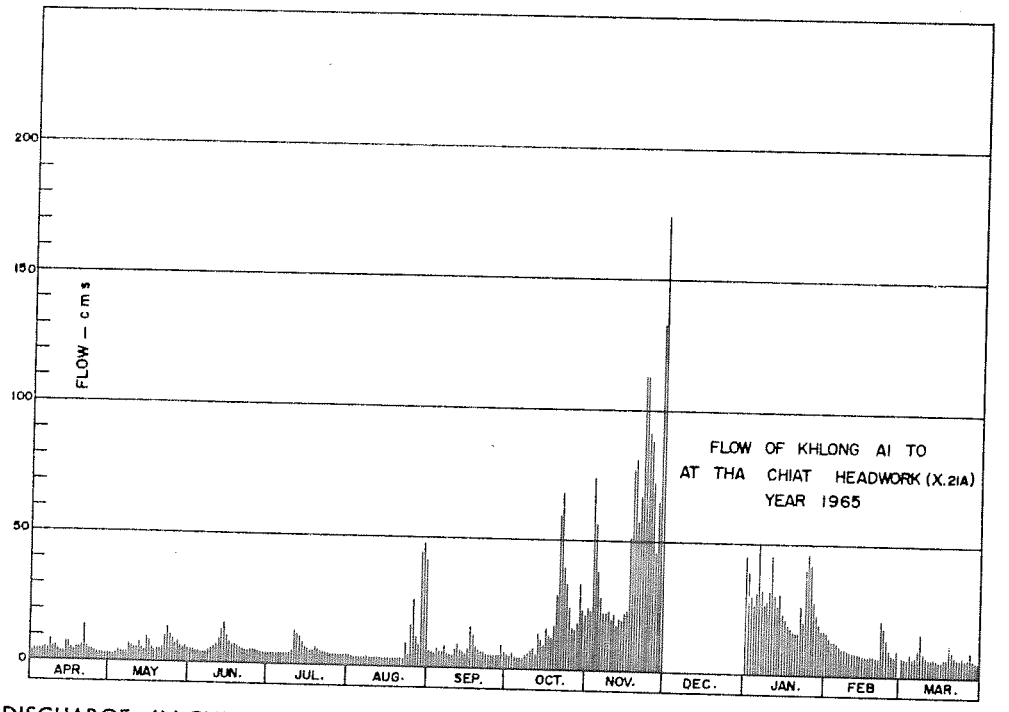
General Description: Records are classified as fair. Stage-discharge relationship used is defined by discharge measurements made in 1963. No diversions are made above the gage site.

Remark: No gage height record for Mar. 1 – 31, 1966.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	18.59	18.53	18.72	18.66	18.65	18.82	18.75	19.73		20.49	19.35	18.85
2	.66	.52	.70	.66	.63	.79	.71	.68		.30	.27	.83
3	.66	.54	.68	.67	.61	.77	.81	21.30		19.96	.22	.80
4	.65	.64	.65	.66	.59	.87	.69	20.84		.80	.19	.95
5	.63	.62	.64	.66	.57	.81	.67	.25		.99	.15	.83
6	18.70	18.61	18.63	18.68	18.57	18.78	18.68	19.90		20.64	19.10	18.86
7	.64	.60	.63	.68	.60	.94	.65	.64		.04	.07	19.05
8	.94	.85	.69	.66	.61	.77	.72	.65		19.82	.05	.38
9	.72	.81	.75	.67	.60	.73	.81	.67		.88	.01	18.95
10	.75	.73	.79	.76	.59	.70	.83	.54		20.06	.00	.88
11	18.65	18.71	18.85	19.21	18.58	18.90	18.94	19.62		20.51	18.98	18.83
12	.59	.91	19.02	.14	.57	19.01	.74	.40		19.97	.98	.82
13	.58	.77	.22	.12	.56	18.86	19.27	.54		.82	.95	.83
14	.88	.68	.34	.00	.56	.78	.16	.49		.99	.92	.79
15	.88	19.03	.08	18.89	.57	.75	18.99	.65		.70	.91	.77
16	18.72	18.93	18.95	18.82	18.56	18.90	19.35	19.68		19.60	18.90	18.76
17	.68	.74	.86	.77	.55	19.35	.22	20.67		.51	.88	.84
18	.77	.65	.90	.75	.54	.20	.18	21.37		.44	.90	.81
19	.73	.71	.84	.87	.54	18.96	.43	.48		.39	.86	19.16
20	.79	.71	.81	.79	.53	.88	.93	20.85		.35	.85	.02
21	19.27	18.74	18.76	18.73	18.54	18.84	20.91	21.12		19.35	18.84	18.87
22	18.76	19.05	.74	.72	.53	.82	21.14	22.18		.80	19.61	.84
23	.69	.25	.71	.71	19.02	.77	20.30	.18		.56	.48	.80
24	.65	.13	.74	.68	18.68	.74	.10	21.69		20.34	.26	.87
25	.62	.04	.76	.67	19.37	.72	19.73	.63		.54	.05	.80
26	18.60	18.87	18.74	18.66	19.81	18.71	19.38	21.23		20.38	18.93	18.82
27	.58	.93	.71	.65	.10	.70	.31	20.51		19.89	.88	19.00
28	.56	.80	.69	.64	18.96	.72	.45	21.08		.68	19.03	18.79
29	.55	.79	.68	.63	20.47	19.00	20.08	22.58		.56		.75
30	.54	.83	.67	.66	.58	18.80	19.66	24.14		.42		.73
31		.73		.67	.36		.61			.42		19.03
Mean	18.70	18.79	18.80	18.74	18.87	18.85	19.26	20.64		19.86	19.06	18.88
Max.	19.27	19.25	19.34	19.21	20.58	19.35	21.14	24.14		20.64	19.61	19.38
Min.	18.54	18.52	18.63	18.63	18.53	18.70	18.65	19.40		19.35	18.84	18.73

WATER YEAR 1965 : Max. – m. Min. 18.52 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.70	3.10	5.26	4.52	4.40	6.58	5.65	24		45	16	7.00
2	4.52	3.00	5.00	4.52	4.16	6.17	5.13	23		39	14	6.72
3	4.52	3.20	4.76	4.64	3.92	5.91	6.44	74		30	13	6.30
4	4.40	4.28	4.40	4.52	3.70	7.28	4.88	56		26	13	8.50
5	4.16	4.04	4.28	4.52	3.50	6.44	4.64	38		31	12	6.72
6	5.00	3.92	4.16	4.76	3.50	6.04	4.76	28		50	11	7.14
7	4.28	3.80	4.16	4.76	3.80	8.34	4.40	22		32	10	10
8	8.34	7.00	4.88	4.52	3.92	5.91	5.26	22		26	10	16
9	5.26	6.44	5.65	4.64	3.80	5.39	6.44	23		28	9.47	8.50
10	5.65	5.39	6.17	5.78	3.70	5.00	6.72	20		32	9.30	7.42
11	4.40	5.13	7.00	13	3.60	7.70	8.34	22		45	8.98	6.72
12	3.70	7.86	9.64	12	3.50	9.47	5.52	17		30	8.98	6.58
13	3.60	5.91	13	11	3.40	7.14	14	20		26	8.50	6.72
14	7.42	4.76	16	9.30	3.40	6.04	12	19		31	8.02	6.17
15	7.42	9.81	11	7.56	3.50	5.65	9.14	22		23	7.86	5.91
16	5.26	8.18	8.50	6.58	3.40	7.70	16	23		21	7.70	5.78
17	4.76	5.52	7.14	5.91	3.30	16	13	51		19	7.42	6.86
18	5.91	4.40	7.70	5.65	3.20	13	12	77		18	7.70	6.44
19	5.39	5.13	6.86	7.28	3.20	8.66	17	81		17	7.14	12
20	6.17	5.13	6.44	6.17	3.10	7.42	29	57		16	7.00	9.64
21	14	5.52	5.78	5.39	3.20	6.86	59	67		16	6.86	7.28
22	5.78	10	5.52	5.26	3.10	6.58	68	113		26	21	6.86
23	4.88	14	5.13	5.13	9.64	5.91	39	113		20	18	6.30
24	4.40	11	5.52	4.76	4.76	5.52	33	91		40	14	7.28
25	4.04	9.98	5.78	4.64	16	5.26	24	88		46	10	6.30
26	3.80	7.28	5.52	4.52	26	5.13	16	71		42	8.18	6.58
27	3.60	8.18	5.13	4.40	11	5.00	15	45		28	7.42	9.30
28	3.40	6.30	4.88	4.28	8.66	5.26	18	65		23	9.81	6.17
29	3.30	6.17	4.76	4.16	44	9.30	33	133		20		5.65
30	3.20	6.72	4.64	4.52	48	6.30	23	224		17		5.39
31		5.39		4.64	41		21			17		9.81
Total	154	196	195	183	287	213	539	1,729		880	292	234
Mean	5.13	6.32	6.50	5.90	9.26	7.10	17	58		28	10	7.55
Max.	14	14	16	13	48	16	68	224		50	21	16
Min.	3.20	3.00	4.16	4.16	3.10	5.00	4.40	17		16	6.86	5.39
Runoff - mcm.	13.306	16.934	16.848	15.811	24.797	18.403	46.570	149.386		76.032	25.229	20.218

WATER YEAR 1965 : Max. Min. 3.00 Mean Annual Runoff mcm.

Momentary Peak Discharge

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

WATER YEAR 1965
KHLONG AI TO RIVER BASIN

Khlong Ai To at Tha Madua, Phatthalung (X. 21B)

Location: Lat. 7° – 23' – 09" N., Long 100° – 06' – 27" E., about 6 kilometers downstream from Tha Chiat Headwork, Ban Tha Madua Amphoe Khao Chiason, Phatthalung.

Drainage Area: 330 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 14.45 m. (M.S.L.)

Bench Mark:
- Location: Near the station office of X.21B.
- Elevation: BM. 1 + 20.00 (M.S.L.), and BM. 2 + 20.189 m. (M.S.L.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1964 to date.

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

Stability of Channel Regimes: Stable, shifting adjustment is negligible for flow computation due to it adequate stability.

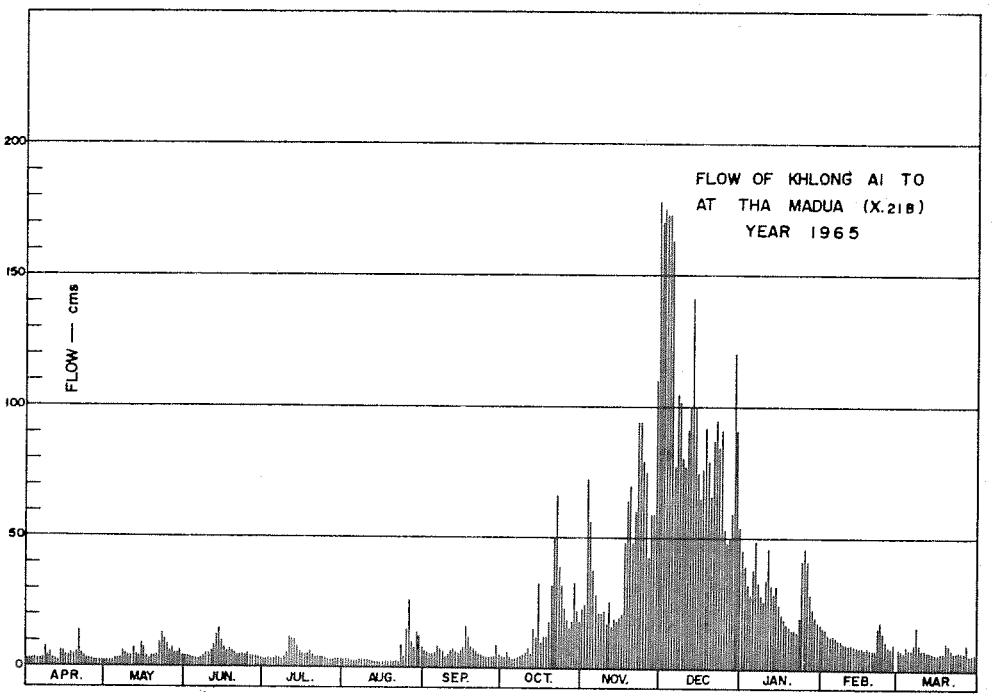
Overbank Flow Conditions: Overbank flow is observed but not included in flow computation due to insufficient field data.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15.26	15.19	15.38	15.32	15.31	15.54	15.40	16.35	20.64	17.19	16.03	15.60
2	.32	.18	.36	.32	.29	.48	.39	.41	.75	16.97	15.98	.55
3	.32	.20	.34	.35	.27	.43	.49	18.12	.70	.70	.94	.52
4	.31	.30	.31	.32	.25	.57	.39	17.56	.71	.55	.91	.67
5	.29	.28	.30	.32	.23	.48	.32	16.90	.50	.92	.87	.58
6	15.26	15.27	15.29	15.34	15.23	15.62	15.33	16.55	16.28	17.32	15.84	15.60
7	.30	.26	.29	.34	.26	.60	.34	.27	19.09	16.74	.80	.72
8	.59	.50	.35	.32	.27	.50	.37	.27	.00	.53	.77	16.03
9	.38	.46	.41	.35	.26	.40	.48	.31	18.38	.46	.74	15.71
10	.41	.40	.45	.42	.25	.42	.48	.10	.28	.77	.72	.60
11	15.31	15.37	15.50	15.86	15.24	15.55	15.61	16.41	18.72	17.21	15.71	15.57
12	.25	.56	.67	.79	.23	.60	.46	.05	.94	16.69	.69	.53
13	.24	.43	.87	.77	.22	.52	16.01	.17	20.04	.60	.67	.53
14	.53	.34	.99	.65	.22	.46	15.83	.14	18.94	.71	.65	.49
15	.50	.68	.73	.54	.23	.50	16.69	.23	.17	.42	.64	.47
16	15.38	15.58	15.60	15.47	15.22	15.57	15.68	16.26	17.88	16.24	15.63	15.46
17	.34	.40	.51	.43	.21	16.04	.83	17.30	18.23	.15	.61	.52
18	.43	.31	.55	.41	.20	15.82	.86	.86	.71	.08	.63	.51
19	.39	.37	.49	.52	.20	.67	16.07	18.06	.32	.03	.60	.76
20	.45	.37	.46	.45	.19	.58	.70	17.29	17.93	15.99	.58	.72
21	15.92	15.40	15.42	15.39	15.20	15.50	17.36	17.71	18.58	15.99	15.56	15.60
22	.42	.70	.40	.38	.19	.45	.92	18.77	.81	.95	16.03	.54
23	.35	.90	.37	.37	.67	.41	16.98	.77	.47	16.20	.11	.50
24	.31	.78	.40	.34	.34	.40	.65	.34	.69	17.03	15.96	.54
25	.28	.69	.42	.33	16.01	.37	.36	.21	17.48	.23	.77	.49
26	15.26	15.52	15.40	15.32	16.45	15.36	16.14	17.08	17.28	17.03	15.66	15.52
27	.24	.58	.37	.31	15.75	.35	15.97	.68	.35	16.57	.62	.70
28	.22	.45	.35	.30	.61	.35	16.11	.68	.68	.35	.70	.46
29	.21	.45	.34	.29	.92	.67	.74	19.18	19.52	.23		.45
30	.20	.48	.33	.32	.83	.46	.31	20.80	18.68	.14		.43
31		.39		.32	.61		.14		17.50	.08		.58
Mean	15.36	15.44	15.45	15.42	15.40	15.52	16.01	17.29	18.78	16.55	15.76	15.58
Max.	15.92	15.90	15.99	15.86	16.45	16.04	17.92	20.80	20.75	17.32	16.11	16.03
Min.	15.20	15.18	15.29	15.29	15.19	15.35	15.32	16.05	17.28	15.95	15.56	15.43

WATER YEAR 1965 : Max. 20.80 m. Min. 15.18 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	3.12	2.31	4.64	3.86	3.73	6.90	4.90	23	170	45	16	7.80
2	3.86	2.22	4.38	3.86	3.48	6.02	4.77	25	175	39	15	7.05
3	3.86	2.40	4.12	4.25	3.24	5.32	6.16	72	173	32	14	6.60
4	3.73	3.60	3.73	3.86	3.00	7.35	4.77	56	173	28	13	8.99
5	3.49	3.36	3.60	3.86	2.76	6.02	3.86	37	163	38	13	7.50
6	3.12	3.24	3.48	4.12	2.76	8.14	3.99	28	77	49	12	7.80
7	3.60	3.12	3.48	4.12	3.12	7.80	4.12	21	105	33	11	9.86
8	7.65	6.30	4.25	3.86	3.24	6.30	4.51	21	102	28	11	16
9	4.64	5.74	5.04	4.25	8.12	4.90	6.02	22	81	26	10	9.68
10	5.04	4.90	5.60	5.18	3.00	5.18	6.02	17	77	34	9.86	7.80
11	3.73	4.51	6.30	12	2.88	7.05	7.97	25	92	46	9.68	7.35
12	3.00	7.20	8.99	11	2.76	7.80	5.74	16	99	32	9.33	6.75
13	2.88	5.32	13	11	2.64	6.60	15	19	141	29	8.99	6.75
14	6.75	4.12	15	8.65	2.64	5.74	12	18	100	32	8.65	6.16
15	6.30	9.16	10	6.90	2.76	6.30	32	20	74	25	8.48	5.88
16	4.64	7.50	7.80	5.88	2.64	7.35	9.16	21	65	21	8.31	5.74
17	4.12	4.90	6.45	5.32	2.52	16	12	48	76	19	7.97	6.60
18	5.32	3.73	7.05	5.04	2.40	12	12	64	92	17	8.31	6.45
19	4.77	4.51	6.16	6.60	2.40	8.99	17	70	79	16	7.80	10
20	5.60	4.51	5.74	5.60	2.31	7.50	32	48	66	15	7.50	9.86
21	14	4.90	5.18	4.77	2.40	6.30	50	60	87	15	7.20	7.80
22	5.18	9.50	4.90	4.64	2.31	5.60	66	94	95	14	16	6.90
23	4.25	13	4.51	4.51	8.99	5.04	39	94	84	20	18	6.30
24	3.73	11	4.90	4.12	4.12	4.90	31	79	91	41	14	6.90
25	3.36	9.33	5.18	3.99	15	4.51	23	75	53	46	11	6.16
26	3.18	6.60	4.90	3.86	26	4.38	18	42	48	41	8.82	6.60
27	2.88	7.50	4.51	3.73	10	4.25	15	59	50	29	8.14	9.50
28	2.64	5.60	4.25	3.60	7.97	4.25	18	59	59	23	9.50	5.74
29	2.52	5.60	4.12	3.48	14	8.99	33	108	120	20		5.60
30	2.40	6.02	3.99	3.86	12	5.74	22	178	91	18		5.32
31		4.77		3.86	7.97		18		54	17		7.50
Total	133	176	175	164	168	203	537	1,519	3,012	888	302	235
Mean	4.44	5.67	5.83	5.29	5.42	6.76	17	51	97	28	11	7.58
Max.	14	13	15	12	26	16	66	178	175	49	18	16
Min.	2.40	2.22	3.48	3.48	2.31	4.25	3.86	16	48	14	7.20	5.32
Runoff - mcm.	49.246	15.204	15.120	14.170	14.515	17.539	45.792	131.242	260.237	76.723	26.023	20.304

WATER YEAR 1965 : Max. 178 Min. 2.22 Mean 20 Annual Runoff 649.037 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Nov. 30	10.00	20.85	181	Dec. 18	05.00	20.35	155

WATER YEAR 1965
KHLONG PHYA HONG RIVER BASIN

Khlong Phya Hong at Tha Lat, Phatthalung (X. 23A)

Location: Lat. 7° - 27' - 38" N., Long 99° - 57' - 41" E., about 1 kilometers upstream from Phya Hong Weir, Amphoe Muang, Phatthalung.

Drainage Area: 62 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 31.07 m. (A.D.)

Bench Mark:
- Location: On the left bank of the creek near the gage sit.
- Elevation: BM. 1+34.189 m. (A.D.), and BM. 2+33.441 m. (A.D.)

Gage Reading Frequency: Recording.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1962 to date.

Rating Operation:
- Period of Rating: 1962 to date.
- Rated by Float: -
- Rated by Current Meter: 1962 to date.

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

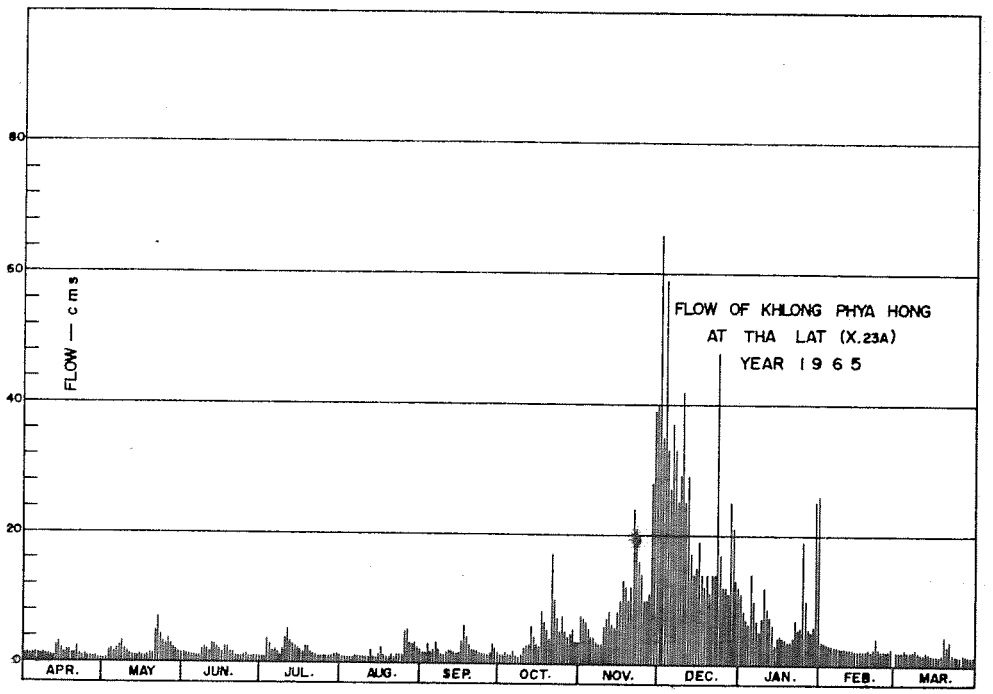
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1,1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	31.82	31.75	31.84	31.79	31.80	31.87	31.84	32.27	33.48	32.45	32.12	32.07
2	.83	.75	.83	.78	.79	.85	.83	.25	.03	.36	.11	.06
3	.81	.87	.82	32.03	.78	.98	.86	.21	.39	.30	.10	.07
4	.82	.88	.81	31.98	.78	.87	.84	.15	.00	.27	.09	.12
5	.83	.86	.81	.87	.78	.89	.83	.07	32.87	.56	.08	.06
6	31.83	31.88	31.80	31.89	31.80	32.01	31.88	32.06	33.07	32.41	32.07	32.06
7	.82	.94	.79	.85	.80	31.89	.82	.00	.00	.29	.07	.09
8	.83	.99	.89	.82	.80	.84	.80	31.98	32.84	.21	.06	.12
9	.81	.91	.92	.89	.79	.84	.82	.98	.91	.32	.06	.06
10	.81	.85	.89	32.04	.78	.87	.93	32.17	33.14	.48	.06	.04
11	31.80	31.83	31.87	32.13	31.79	31.89	31.95	32.25	32.83	32.37	32.05	32.03
12	.79	.81	.96	.01	.88	.88	.97	.30	.91	.32	.05	.08
13	.92	.80	.95	31.96	.78	.87	32.17	.19	.64	.26	.04	.05
14	.97	.79	.93	.94	.78	.84	.06	.16	.56	.08	.03	.02
15	.89	.81	.88	.91	.84	.86	31.96	.30	.58	.16	.03	31.99
16	31.84	31.80	31.85	31.88	31.92	32.00	31.93	32.38	32.70	32.17	32.03	31.99
17	.84	.79	.92	.85	.81	.18	32.31	.50	.54	.15	.03	.98
18	.87	.82	.92	.94	.80	.07	.21	.48	.49	.14	.03	32.01
19	.83	.84	.86	.93	.78	31.96	.14	.39	.55	.12	.12	.32
20	.82	.82	.85	.85	.83	.91	.04	.48	.43	.12	.10	.18
21	31.93	32.12	31.80	31.83	31.77	31.90	32.63	32.80	32.53	32.16	32.13	32.25
22	.82	.24	.80	.82	.83	.89	.41	.71	.53	.30	.30	.03
23	.80	.06	.80	.80	.84	.86	.24	.60	33.24	.23	.13	.00
24	.81	31.99	.81	.80	.83	.85	.12	.53	32.64	.41	.09	31.99
25	.80	.96	.82	.80	32.12	.84	.26	.41	.46	.68	.10	.98
26	31.77	32.04	31.79	31.80	32.17	31.84	32.12	32.40	32.46	32.42	32.08	32.02
27	.76	31.96	.79	.80	31.99	.86	.05	.44	.44	.23	.11	.00
28	.76	.90	.79	.80	.98	.98	.09	.90	.84	.21	.13	31.98
29	.75	.88	.80	.82	32.00	.93	.15	33.09	.74	.25		.97
30	.75	.86	.79	.84	31.93	.87	.02	.11	.50	.83		.97
31		.84		.81	.90		.02		.49	.85		.99
Mean	31.82	31.89	31.85	31.88	31.85	31.91	32.04	32.39	32.77	32.33	32.09	32.05
Max.	31.97	32.24	31.96	32.13	32.17	32.18	32.63	33.11	33.48	32.85	32.30	32.32
Min.	31.75	31.75	31.79	31.78	31.77	31.84	31.80	31.98	32.43	32.08	32.03	31.97

WATER YEAR 1965 : Max. 33.48 m. Min. 31.75 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.37	0.75	1.59	1.07	1.15	1.92	1.59	7.52	66	11	3.68	2.09
2	1.48	0.75	1.48	0.99	1.07	1.70	1.48	7.17	35	8.50	3.51	2.02
3	1.26	1.92	1.37	3.80	0.99	3.17	1.81	6.47	59	7.00	3.35	2.09
4	1.37	2.03	1.26	3.17	0.99	1.92	1.59	5.52	33	6.40	3.21	2.47
5	1.48	1.81	1.26	1.92	0.99	2.14	1.48	4.34	27	14	3.07	2.02
6	1.48	2.03	1.15	2.14	1.15	3.53	2.03	4.21	37	9.80	2.93	2.02
7	1.37	2.71	1.07	1.70	1.15	2.14	1.37	3.40	33	6.80	2.93	2.23
8	1.48	3.28	2.14	1.37	1.15	1.59	1.15	3.17	25	5.20	2.79	2.47
9	1.26	2.36	2.48	2.14	1.07	1.59	1.37	3.17	29	7.50	2.79	2.02
10	1.26	1.70	2.14	3.94	0.99	1.92	2.59	5.83	42	12	2.79	1.88
11	1.15	1.48	1.92	5.21	1.07	2.14	2.82	7.17	25	8.75	2.65	1.81
12	1.07	1.26	2.94	3.53	2.03	2.03	3.05	8.05	29	7.50	2.65	2.16
13	2.48	1.15	2.82	2.94	0.99	1.92	5.83	6.14	17	6.20	2.51	1.95
14	3.05	1.07	2.59	2.71	0.99	1.59	4.21	5.68	14	3.07	2.37	1.74
15	2.14	1.26	2.03	2.36	1.59	1.81	2.94	8.05	15	4.34	2.37	1.54
16	1.59	1.15	1.70	2.03	2.48	3.40	2.59	9.77	19	4.50	2.37	1.54
17	1.59	1.07	2.48	1.70	1.26	5.99	8.26	13	14	4.17	2.37	1.48
18	1.92	1.37	2.48	2.71	1.15	4.34	6.47	12	12	4.01	2.37	1.67
19	1.48	1.59	1.81	2.59	0.99	2.94	5.37	9.98	14	3.68	2.47	4.46
20	1.37	1.37	1.70	1.70	1.48	2.36	3.94	12	11	3.68	2.30	2.98
21	2.59	5.06	1.15	1.48	0.91	2.25	17	24	14	4.34	2.55	3.67
22	1.37	7.00	1.15	1.37	1.48	2.14	10	20	14	7.00	4.20	1.81
23	1.15	4.21	1.15	1.15	1.59	1.81	7.00	16	48	5.60	2.55	1.60
24	1.26	3.28	1.26	1.15	1.48	1.70	5.06	14	17	9.80	2.23	1.54
25	1.15	2.94	1.37	1.15	5.06	1.59	7.35	10	12	19	2.30	1.48
26	0.91	3.94	1.07	1.15	5.83	1.59	5.06	10	12	10	2.16	1.74
27	0.83	2.94	1.07	1.15	3.28	1.81	4.07	11	11	5.60	2.38	1.60
28	0.83	2.25	1.07	1.15	3.17	3.17	4.61	28	25	5.20	2.55	1.48
29	0.75	2.03	1.15	1.37	3.40	2.59	5.52	39	21	6.00		1.42
30	0.75	1.81	1.07	1.59	2.59	1.92	3.67	40	13	25		1.42
31		1.59		1.26	2.25		3.67		12	26		1.54
Total	43	69	50	64	56	71	135	355	755	262	76	62
Mean	1.43	2.22	1.67	2.06	1.82	2.37	4.35	12	24	8.45	2.71	2.00
Max.	3.05	7.00	2.94	5.21	5.83	5.99	17	40	66	26	4.20	4.46
Min.	0.75	0.75	1.07	0.99	0.91	1.59	1.15	3.17	11	3.07	2.16	1.42
Runoff - MCM.	3.715	5.962	4.320	5.530	4.838	6.134	11.664	30.672	65.232	22.637	6.566	5.357

WATER YEAR 1965 : Max. 66 Min. 0.75 Mean 5.47 Annual Runoff 172.627 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 23	08.00	33.60	142	Dec. 12	02.00	33.47	125

WATER YEAR 1965
KHLONG THEPHA RIVER BASIN

Khlong Thepha at Huai Prak Pring Songkhla (X. 27)

Location: Lat. 7° – 35' – 24" N., Long 100° – 00' – 04" E., at Ban Huai Prak Pring, Amphoe Thepha, Songkhla.

Drainage Area: 1,449 sq. km. referred to G.S.G.S. 4218 Map 1:253,440.

Type of Gage: Water-stage recorder.

Zero Gage at Bottom at: + 39.04 m. (A.D.)

Bench Mark:
- Location: On the right bank of the creek near station office of X.27.
- Elevation: BM. 1 + 48.636 m. (A.D.) and BM. 2 + 49.428 m. (A.D.)

Gage Reading Frequency: Recording.

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

Period of Available Gage Records: 1960 to date.

Rating Operation:
- Period of Rating: 1960 to date.
- Rated by Float: –
- Rated by Current Meter: 1960 to date.

Stability of Channel Regimes: Stable, shifting adjustment is not included for flow computation due to its adeauate stability.

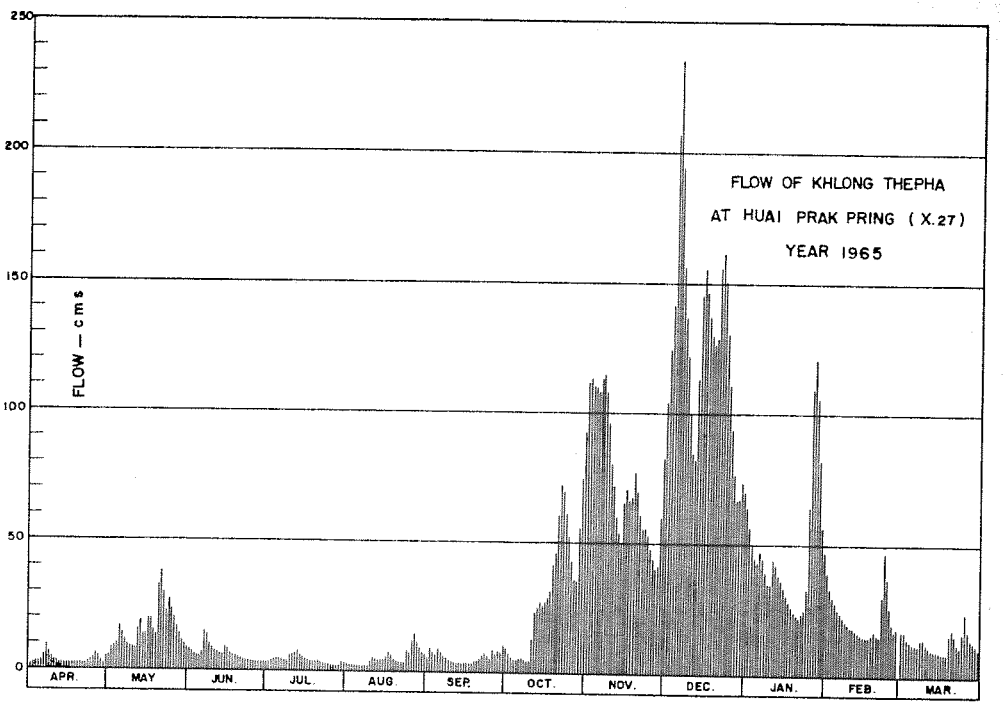
Overbank Flow Conditions: No overbank flow.

General Description: Records are classified as good. No diversions are made above the gage site.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	39.73	40.09	40.27	39.88	39.83	40.12	40.46	44.97	45.01	43.28	42.15	40.96
2	.79	.31	.22	.91	.79	.40	.23	.99	.40	42.99	41.94	.94
3	.83	.43	.19	.94	.78	.25	.11	.90	.71	.68	.78	.76
4	.83	.65	.11	40.00	.77	.18	.05	.92	46.40	.47	.64	.70
5	.85	.95	.13	.03	.81	.43	.06	.87	.58	.40	.54	.66
6	40.14	40.76	40.23	40.03	39.82	40.25	40.10	45.00	46.24	46.62	41.44	40.62
7	.42	.52	.83	39.97	.78	.12	.10	.06	45.88	.52	.35	.61
8	.16	.46	.73	.92	.79	.07	.07	44.83	.59	.25	.26	.76
9	39.98	.39	.47	.92	.77	.03	.03	.42	.13	.04	.18	.77
10	.90	.39	.33	40.12	.96	39.97	.02	43.85	44.57	.04	.12	.59
11	39.85	40.32	40.26	40.19	40.06	39.93	40.78	43.65	44.03	42.46	41.06	40.54
12	.80	.88	.20	.19	.00	.92	41.40	.18	.01	.39	.00	.50
13	.83	41.11	.15	.24	39.99	.90	.51	42.78	45.03	.17	40.96	.46
14	.81	40.72	.16	.14	.99	.92	.59	43.20	.67	.08	.90	.43
15	.76	.77	.38	.07	.98	.90	.53	.45	.87	41.92	.84	.40
16	39.77	41.20	40.32	40.02	40.14	39.89	41.68	43.60	45.75	41.75	40.82	40.38
17	.77	.19	.19	39.99	.24	.89	.73	.38	.57	.63	.82	.37
18	.77	40.83	.11	.94	.09	.91	.95	.57	.41	.53	.89	.35
19	.80	.74	.08	.92	39.99	40.01	42.43	.89	.35	.44	41.00	.80
20	.81	41.90	.05	.91	.92	.01	.66	.49	.42	.36	40.89	41.05
21	39.80	42.16	40.01	39.92	39.88	40.07	43.23	43.07	45.86	41.31	40.81	40.77
22	.77	41.74	39.94	.89	.85	.15	.63	42.98	.93	.45	41.47	.61
23	.85	.38	.95	.85	.87	.22	.58	43.02	.84	.57	42.60	.52
24	.93	.58	.93	.81	40.30	.15	.24	42.85	.46	.95	.07	.90
25	.95	.42	.92	.80	.24	.06	42.76	.70	.08	43.67	41.44	41.40
26	40.18	41.15	39.90	39.78	40.61	40.38	42.36	42.46	44.56	44.90	41.15	40.90
27	.05	40.94	.88	.78	.75	.24	.09	.28	43.90	45.19	.00	.75
28	39.90	.86	.87	.76	.60	.36	.07	.38	.46	44.78	.03	.67
29	.82	.63	.86	.75	.39	.28	43.09	43.34	.50	43.74		.54
30	40.02	.49	.87	.89	.22	.55	.86	44.49	.68	42.88		.47
31		.37		.91	.16		44.53		.58	.43		.43
Mean	39.89	40.88	40.15	39.95	40.04	40.11	41.71	43.72	45.14	42.51	41.29	40.66
Max.	40.42	42.16	40.83	40.24	40.75	40.55	44.53	45.06	46.58	45.19	42.60	41.40
Min.	39.73	40.09	39.86	39.75	39.77	39.89	40.02	42.28	43.46	41.31	40.81	40.35

WATER YEAR 1965 : Max. 46.58 m. Min. 39.73 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	1.90	5.59	7.57	3.40	2.90	5.92	9.88	112	113	62	38	17
2	2.50	8.02	7.02	3.70	2.50	9.10	7.13	113	129	56	33	17
3	2.90	9.49	6.69	4.00	2.40	7.35	5.81	110	145	49	30	14
4	2.90	12	5.81	4.60	2.30	6.58	5.15	110	210	44	28	13
5	3.10	17	6.03	4.93	2.70	9.49	5.26	108	235	43	26	12
6	6.14	14	7.13	4.93	2.80	7.35	5.70	113	192	47	24	12
7	9.36	11	15	4.30	2.40	5.92	5.70	115	157	45	23	12
8	6.36	9.88	14	3.80	2.50	5.37	5.37	107	138	40	21	14
9	4.40	8.98	10	3.80	2.30	4.93	4.93	94	118	35	20	14
10	3.60	8.98	8.26	5.92	4.20	4.30	4.82	77	99	35	19	12
11	3.10	8.14	7.46	6.69	5.26	3.90	14	72	83	44	18	11
12	2.60	16	6.80	6.69	4.60	3.80	24	60	82	42	17	10
13	2.90	19	6.25	7.24	4.50	3.60	25	51	114	38	17	9.88
14	2.70	13	6.36	6.14	4.50	3.80	27	61	143	36	16	9.49
15	2.40	14	8.86	5.37	4.40	3.60	26	67	156	33	15	9.10
16	2.30	20	8.14	4.82	6.14	3.50	28	71	148	30	15	8.86
17	2.30	20	6.69	4.50	7.24	3.50	29	65	137	28	15	8.74
18	2.30	15	5.81	4.00	5.59	3.70	34	70	129	26	16	8.50
19	2.60	14	5.48	3.80	4.50	4.71	43	77	127	24	17	15
20	2.70	33	5.15	3.70	3.80	4.71	48	68	130	23	16	18
21	2.60	38	4.71	3.80	3.40	5.37	61	58	155	22	15	14
22	2.30	30	4.00	3.50	3.10	6.25	72	55	161	24	25	12
23	3.10	23	4.10	3.10	3.30	7.02	70	56	154	26	47	11
24	3.90	27	3.90	2.70	7.90	6.25	61	52	132	34	36	16
25	4.10	24	3.80	2.60	7.24	5.26	50	49	116	73	24	24
26	6.58	20	3.60	2.40	12	8.86	42	44	98	110	20	16
27	5.15	17	3.40	2.40	14	7.24	36	40	79	121	17	14
28	3.60	15	3.30	2.20	12	8.62	36	42	67	105	18	13
29	2.80	12	3.20	2.10	8.98	7.68	58	64	68	74		11
30	4.82	10	3.30	3.50	7.02	11	78	96	73	53		10
31		8.74		3.70	6.36		97		70	43		9.49
Total	108	502	192	128	163	179	1,019	2,277	3,958	1,465	626	396
Mean	3.60	16	6.39	4.14	5.25	5.96	33	76	128	47	22	13
Max.	9.36	38	15	7.24	14	11	97	115	235	121	47	24
Min.	1.90	5.59	3.20	2.10	2.30	3.50	4.82	40	67	22	15	8.50
Runoff - MCM.	9.331	43.373	16.589	11.059	14.083	15.466	88.042	196.733	341.971	126.576	54.086	34.214

WATER YEAR 1965 : Max. 235 Min. 1.90 Mean 30 Annual Runoff 951.523 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 5	01.00	46.66	246	Dec. 22	01.00	46.96	164

WATER YEAR 1965
TAPEE RIVER BASIN

Phum Duang River at Ban Yan Lon, Surat Thani (X. 38)

Location: Lat. 8° – 53'* – 51" N., Long 98° – 52' – 32" E., on the right bank of the river at Ban Yan Lon, Amphoe Khiri Ratthanikhom, Surat Thani.

Drainage Area: 2,690 sq. km. referred to AMS. Map 1:50,000.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 16.400 m. (A.D.)

Bench Mark:
- Location: Near the station office of X. 38.
- Elevation: + 30.00 m. (A.D.)

Gage Reading Frequency: 24 – time daily readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

Period of Available Gage Records: 1963 to date.

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

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

Overbank Flow Conditions: No overbank flow.

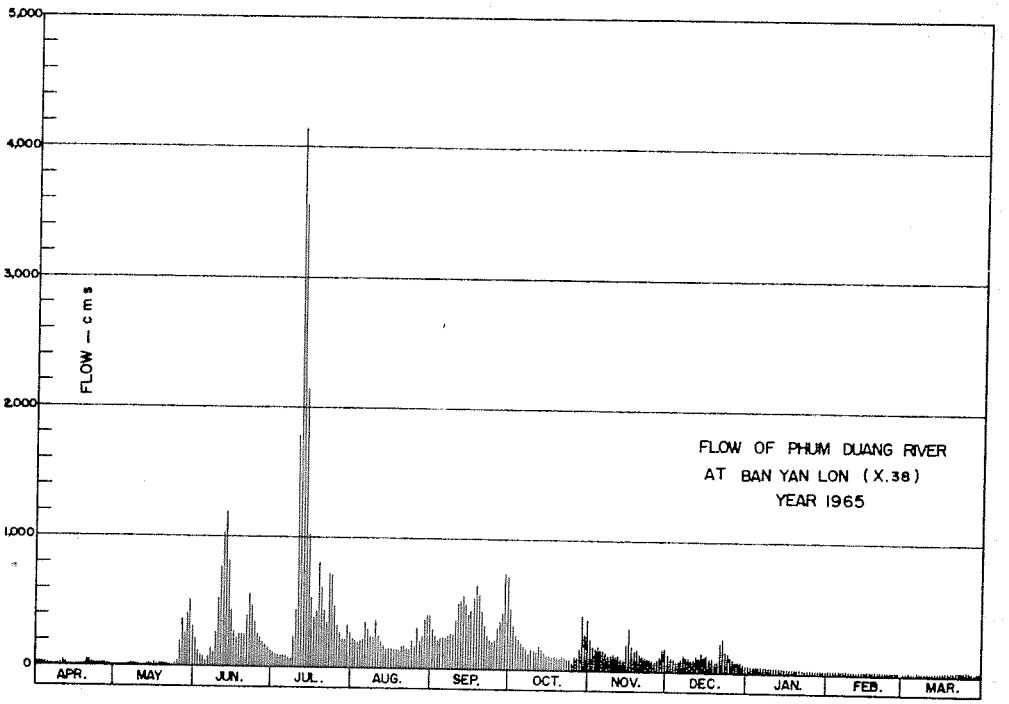
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: * Hourly with shifting adjustment.

GAGE HEIGHT IN METER (A.D.), WATER YEAR APRIL 1, 1965 TO MARCH 31,1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	17.72	17.45	19.53	18.92	19.99	20.67	21.92	19.88	19.10	18.21	17.90	17.55
2	.83	.45	18.86	.76	.98	.22	20.87	.57	18.88	.17	.79	.55
3	.72	.43	.43	.65	.66	19.95	.33	.49	.73	.13	.73	.59
4	.69	.58	.30	.55	.85	20.02	.09	.71	.66	.11	.70	.57
5	.54	.55	.15	.56	.93	.07	19.79	.40	.60	.08	.69	.55
6	17.47	17.69	18.47	18.55	21.06	20.08	19.56	19.44	18.75	18.06	17.68	17.62
7	.47	.79	19.25	.40	20.69	.18	.42	.24	19.14	.05	.67	.56
8	.62	.83	18.93	.42	.15	.31	.26	.11	18.82	.02	.66	.57
9	.67	.73	20.38	19.97	.11	.21	.34	18.91	.87	.00	.65	.52
10	.85	.62	22.44	21.80	21.21	21.14	.27	19.08	.72	17.99	.65	.51
11	18.02	17.63	23.94	27.82	20.21	22.17	19.27	18.92	18.79	17.97	17.65	17.52
12	17.74	.75	25.23	29.81	19.81	.25	.60	19.01	19.09	.94	.64	.56
13	.59	.63	.91	28.93	.50	.52	.23	18.70	18.86	.92	.62	.54
14	.56	.77	24.23	26.63	.31	.04	.08	.62	19.28	.95	.62	.52
15	.52	.67	21.71	24.55	.32	21.56	18.85	19.56	18.94	.91	.61	.53
16	17.48	17.78	20.40	22.47	19.35	21.67	18.87	20.90	19.15	17.89	17.60	17.53
17	.45	.61	.07	21.59	.25	22.40	.69	19.68	18.82	.87	.60	.62
18	.42	.78	.28	.92	.28	23.03	.76	.34	.82	.85	.59	.63
19	.55	.75	.19	24.19	.27	22.76	.72	.39	.61	.84	.61	.62
20	18.20	.72	.29	22.88	.54	21.87	.66	.04	.50	.83	.61	.60
21	18.14	17.63	21.06	21.81	19.52	20.94	18.80	18.87	20.02	17.91	17.66	17.64
22	17.72	.56	22.58	.24	.37	.39	.66	.80	.42	.86	.63	.64
23	.71	.53	.24	23.83	.25	.10	.62	.76	19.40	.83	.65	.66
24	.79	.63	21.11	.76	.86	19.86	.55	.64	.32	.86	.66	.72
25	.71	.85	20.45	22.09	.45	20.09	.14	.55	18.93	.83	.62	.82
26	17.83	19.85	20.01	21.08	20.73	20.89	18.82	18.48	18.74	17.79	17.59	17.72
27	.74	21.16	19.70	20.51	19.93	21.29	.71	.60	.62	.78	.57	.60
28	.59	20.38	.43	.09	20.23	.65	19.39	.81	.54	.76	.58	.53
29	.51	21.47	.36	.09	21.13	23.94	21.60	19.46	.58	.74		.72
30	.48	22.23	.11	21.04	.51	.55	20.51	.61	.33	.73		.69
31		20.64		20.50	.53		21.33		.26	.74		.56
Mean	17.68	18.29	20.67	21.85	20.00	21.27	19.41	19.15	18.94	17.94	17.65	17.60
Max.	18.20	22.23	25.91	29.81	21.53	23.94	21.92	20.90	20.42	18.21	17.90	17.82
Min.	17.42	17.43	18.15	18.40	19.25	19.86	18.14	18.48	18.26	17.73	17.57	17.51

WATER YEAR 1965 : Max. 29.81 m. Min. 17.42 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	27	13	170*	116	225	300	440*	211	128	58	37	18
2	33	13	109	102	216	248	317*	180	108	55	30	18
3	27	12	83	93	184	219	253	162	96	52	27	20
4	25	19	64	85	212	232	227	184	90	51	26	19
5	18	17	53	88	220	238	197	153	85	49	25	18
6	15	24	77	87	351	239	174	157	97	47	25	22
7	15	29	143	75	306	250	160	138	130	46	24	19
8	22	32	115*	79*	239	264	144	124	101	44	24	19
9	24	26	263*	245*	235	253	152	108	106	43	23	17
10	34	21	532*	496*	366	366	145	124	93	42	23	16
11	44	21	786*	2,396*	246	507	145	109	99	41	23	17
12	28	27	1,065*	4,123*	204	519	178	117	125	39	23	19
13	20	21	1,195*	2,963*	165	560	142	91	105	38	22	18
14	19	28	804*	1,603*	146	488	128	85	143	40	22	17
15	17	23	400*	890*	154	421	107	179	112	38	21	17
16	15	29	267*	512*	157	437	109	326	131	36	21	17
17	14	20	235*	389*	145	542	94	191	101	35	21	22
18	13	29	258	432	146	640	100	157	101	34	20	22
19	18	27	248	804	145	576	97	162	85	33	21	22
20	57	26	259	581	172	446	92	129	76	33	21	21
21	53	21	351	425	170	324	103	114	216	38	24	23
22	27	18	564	350	155	259	92	105	259	35	22	23
23	26	16	483	726	143	227	89	101	154	33	23	24
24	30	21	331	713	212	203*	83	92	146	35	24	27
25	26	34*	253	451	171	227*	53	85	111	33	22	32
26	33	216*	222	336	309	320*	105	79	95	30	20	27
27	28	361*	191	268	219	373*	100	89	85	30	19	21
28	20	256*	164	222	249	429*	162	106	79	29	20	17
29	16	403*	157	222	357	735*	417	166	82	28		27
30	15	508*	134	327	406	726*	279	181	63	27		25
31		280*		282	409		381		58	28		19
Total	759	2,591	9,976	20,481	7,034	11,568	5,265	4,205	3,460	1,200	653	643
Mean	25	83	332	661	227	386	170	140	112	39	23	21
Max.	57	508	1,195	4,123	409	735	440	326	259	58	37	32
Min.	13	12	53	75	143	203	53	79	58	27	19	16
Runoff - mcm.	65.577	223.862	861.926	1,769.558	607.738	999.745	454.896	363.312	298.944	103.680	56.419	55.555

WATER YEAR 1965 : Max. 4,123 Min. 12 Mean 186 Annual Runoff 5,860.944 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Jul. 12	12.00	29.92	4,378	Jun. 13	09.00	26.00	1,378

WATER YEAR 1965
PATTANI RIVER BASIN

Pattani River at Muang Yala (X. 40)

Location: Lat. 6° – 35' – 00" N., Long 101° – 20' – 00" E., on the right bank, about 500 maters downstream from Bangkok – Sungai Kolok railway bridge at Ban Teng Nok, Amphoe Muang, Yala.

Drainage Area: 3,295 sq. km. referred to G.S.G.S. 4218 Map 1:253.440.

Type of Gage: Staff gage.

Zero Gage at Bottom at: + 9.60 m. (M.S.L.)

Bench Mark:
- Location: On the right bank of the river near the gage site.
- Elevation: BM. 1 + 14.009 m. (M.S.L.), and BM. 2 + 16.240 m. (M.S.L.)

Gage Reading Frequency: 24 – time daily readings.

Basis of Mean Daily Gage Height: Arithmetic mean of 24 readings. For flashy floods whose hourly flow readings are necessary, hourly gage heights are used.

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, shifting adjustment is negligible in flow computation due to its adequate stability.

Overbank Flow Conditions: Overbank flow is observed, measured by current meter, and included in flow computation.

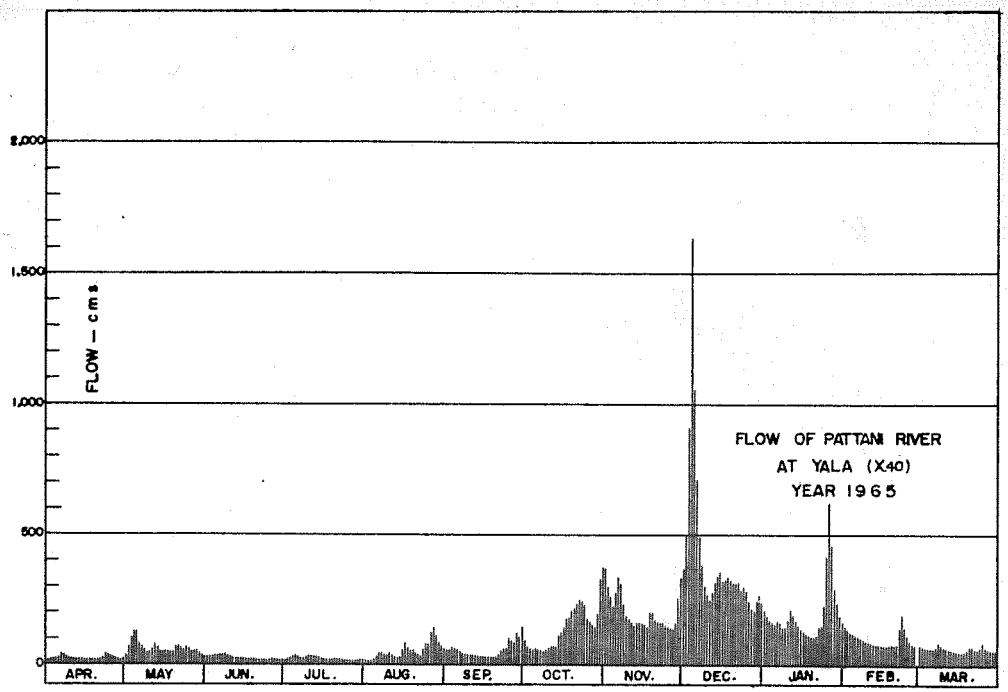
General Description: Records are classified as good. No diversions are made above the gage site.

Remark: * Including overbank flow.

GAGE HEIGHT IN METER (M.S.L.), WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	10.47	10.89	10.85	10.62	10.57	11.26	11.81	14.46	14.37	13.10	12.45	11.52
2	.51	11.30	.82	.72	.54	.29	.49	13.95	.97	12.88	.32	.46
3	.64	.70	.86	.77	.52	.44	.35	.51	15.56	.71	.21	.40
4	.63	12.19	.95	.94	.59	.31	.29	.12	16.13	.58	.13	.37
5	.71	.18	.93	.98	.90	.33	.37	.73	15.73	.55	.06	.37
6	10.96	11.65	10.93	10.86	11.11	11.21	11.31	14.16	15.36	12.72	11.98	11.33
7	.95	.49	.97	.82	.13	.12	.30	.00	14.94	.63	.92	.46
8	.80	.27	11.01	.77	10.96	.10	.21	13.22	.50	.40	.86	.64
9	.71	.09	10.94	.84	.93	.08	.17	12.84	.06	.32	.81	.53
10	.65	.12	.86	.95	11.05	.03	.32	.78	13.67	.59	.76	.41
11	10.58	11.20	10.80	10.94	10.95	10.97	11.48	12.56	13.45	13.13	11.72	11.31
12	.57	.56	.74	.98	.77	.93	.54	.42	.71	12.97	.69	.26
13	.58	.41	.71	.93	.74	.91	.43	.59	14.09	.63	.65	.24
14	.56	.16	.72	.81	.78	.90	.97	.58	.27	.47	.60	.21
15	.56	.11	.71	.74	11.20	.88	12.11	.55	.41	.35	.55	.18
16	10.54	11.16	10.68	10.70	11.61	10.83	12.27	12.51	14.14	12.22	11.55	11.16
17	.50	.10	.65	.67	.40	.81	.74	.35	.18	.12	.55	.14
18	.54	.12	.63	.63	.29	.84	.68	.97	.27	.04	.56	.15
19	.55	.01	.65	.63	.26	.82	13.03	.95	.20	11.97	.60	.31
20	.56	.44	.62	.74	.09	.82	.02	.65	.08	.93	.57	.36
21	10.57	11.45	10.61	10.79	10.97	10.86	13.22	12.54	14.10	12.02	11.50	11.47
22	.62	.40	.60	.68	.89	11.25	.47	.56	.13	.45	12.16	.30
23	11.00	.27	.57	.62	11.18	.35	.37	.50	13.82	.38	.97	.19
24	10.90	.42	.56	.59	.62	.28	.24	.39	.96	13.26	.45	.34
25	.79	.35	.57	.56	.54	.85	12.75	.38	.85	14.83	11.94	.70
26	10.80	11.22	10.68	10.55	12.12	11.72	12.60	12.36	13.48	15.30	11.73	11.40
27	.74	.21	.68	.53	.37	.61	.43	.26	.15	14.72	.61	.26
28	.63	.23	.61	.53	11.99	12.10	.37	.52	.05	13.83	.55	.21
29	.57	.07	.65	.56	.67	11.88	13.00	13.51	.45	.21		.21
30	.63	10.97	.64	.65	.48	12.35	.98	14.10	.72	12.86		.30
31		.90		.61	.40		14.47		.40	.67		.18
Mean	10.66	11.31	10.74	10.73	11.18	11.24	12.28	12.97	14.20	12.83	11.87	11.33
Max.	11.00	12.19	11.01	10.98	12.37	12.35	14.47	14.46	16.13	15.30	12.97	11.70
Min.	10.47	10.89	10.56	10.53	10.52	10.81	11.17	12.26	13.05	11.93	11.50	11.14

WATER YEAR 1965 : Max. 16.13 m. Min. 10.47 m.



DISCHARGE, IN CUBIC METERS PER SECOND, WATER YEAR APRIL 1, 1965 TO MARCH 31, 1966

Day	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
1	15	34	32	21	19	57	97	377	364	206	146	72
2	16	60	30	25	18	59	73	307	499*	184	135	68
3	22	88	33	27	17	70	63	256	846*	169	125	64
4	21	128	38	37	20	61	59	216	1,633*	157	118	62
5	24	127	37	40	35	62	65	281	1,052*	154	113	62
6	39	84	37	33	48	54	61	334	662*	170	106	59
7	38	73	39	30	49	48	60	313	463*	162	102	68
8	29	58	42	27	39	47	54	226	369	141	97	80
9	24	46	37	31	37	46	51	188	309	135	93	72
10	22	48	33	38	44	43	61	182	264	158	89	65
11	19	53	29	37	38	39	73	161	241	209	86	58
12	19	78	26	40	27	37	77	149	269	193	83	55
13	19	68	24	37	26	36	69	164	312	162	80	54
14	18	51	25	30	28	35	110	163	335	147	77	52
15	18	48	24	26	53	34	121	160	355	137	74	50
16	18	51	23	24	82	31	135	157	318	126	74	49
17	16	47	22	23	67	30	178	142	323	118	74	48
18	18	48	21	21	59	31	172	201	335	111	74	48
19	18	42	22	21	57	30	207	199	326	106	77	58
20	18	70	21	26	46	30	206	169	311	102	75	61
21	19	70	20	28	39	33	226	160	313	110	70	68
22	21	67	20	23	34	56	252	161	317	146	121	57
23	41	58	19	21	52	63	241	156	281	140	193	51
24	35	68	18	20	82	59	228	146	297	222	146	60
25	28	63	19	18	77	100	179	145	284	458*	103	84
26	29	54	23	18	122	90	165	143	244	616*	86	64
27	26	54	23	17	144	82	150	134	211	407	78	55
28	21	55	20	17	111	120	144	159	201	282	74	52
29	19	45	22	18	86	102	204	255	241	217		52
30	21	39	22	22	73	142	311	326	270	182		57
31		35		20	67		378		236	165		50
Total	691	1,910	801	816	1,696	1,727	4,470	6,130	12,481	5,992	2,769	1,855
Mean	23	61	27	26	55	58	144	204	403	193	99	60
Max.	41	128	42	40	144	142	378	377	1,633	616	193	84
Min.	15	34	18	17	17	30	51	134	201	102	70	48
Runoff - mcm.	59.702	165.024	69.206	70.502	146.534	149.213	386.208	529.632	1,078.358	517.709	239.242	160.272

WATER YEAR 1965 : Max. 1,633 Min. 15 Mean 113 Annual Runoff 3,571.603 mcm.

Momentary Peak Discharge

Date	Time	Gage-Height	Discharge	Date	Time	Gage-Height	Discharge
Dec. 4	09.00	16.26	1,800*	Jan. 26	06.00	15.34	639*